Midterm Permit Review (MT-9)

for the

Colowyo Mine

Colowyo Coal Company, L.P

Permit No. C-1981-019



COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

Conducted by Colorado Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO 80203 303-866-3567 Michael Cunningham, Director

> Hunter Ridley Environmental Protection Specialist

> > May 5, 2025

In Fulfillment of C.R.S. 34-33-115(3), and the following Regulations of the Colorado Mined Land Reclamation Board for Coal Mining: 2.08.3, 2.06.2(10), 2.06.3(4)(a), 2.06.5(3)(c), 2.06.7(5) and 3.02.2(4)

Colowyo Mine Permit No. C-1981-019 Midterm Review No. 8 May 5, 2020

Midterm Review (MT-9) Colowyo Mine C-1981-019

This document presents the results of the Midterm Review of the Colowyo Coal Company, LP's (CCC) Colowyo Mine (Colowyo), conducted by the Colorado Division of Reclamation, Mining and Safety (the Division). This Midterm Review was conducted to fulfill the requirements of the Colorado Surface Coal Mining Reclamation Act, and Rules 2.08.3, 2.06.2(9), 2.06.3(4), 2.06.5(3), 2.06.7(5) and 3.02.2(4) of the Rules and Regulations of the Colorado Mined Land Reclamation Board for Coal Mining.

Rule 2.08.3 requires the Division to conduct a review of each permit issued, prior to its midterm (2 $\frac{1}{2}$ years). Based on this review, for good cause shown, the Division may require reasonable revisions to, or modifications of, the permits provisions to ensure compliance with the Act and Regulations.

Rules 2.06.2, 2.06.3, 2.06.5 and 2.06.7 require that during the midterm review, where applicable, experimental practices, mountaintop removal variances, variances from approximate original contour (AOC), and variances from contemporaneous reclamation, respectively, be reviewed by the Division. The Colowyo Mine does not conduct any experimental practices (Rule 2.06.2), mountain top removal operations (Rule 2.06.3) or have a variance for contemporaneous reclamation for combined surface and underground mining (Rule 2.06.7). Variances have been granted for approximate original contour due to steep slope mining (Rule 2.06.5) at the Colowyo Mine. These items are addressed in Section IV below.

Rule 3.02.2(4) requires the Division to review the amount of performance bond liability and the terms of acceptance of the bond every 2 $\frac{1}{2}$ years.

The proposed decision date for Permit Renewal No. 8 was January 5, 2023. The permit for the Colowyo Mine was issued on February 25, 2023. The Proposed Decision and Findings of Compliance were updated at the time of the proposed decision for Permit Renewal No. 8.

Section I-History of Site

Site location

The Colowyo Mine is a surface mine located in Moffat and Rio Blanco Counties, Colorado, approximately 23 miles south of the town of Craig, Colorado. The permit area is west of and contiguous with Colorado State Highway 13. The permit area encompasses 26,173.14 acres (3,481.67 Federal, 1,277.00 State and 21,414.47 private surface acres; 21,778.47 Federal, 1,287.21 State and 3,099.46 private coal acres). The total permitted disturbance and affected area is 5,419.60 acres. The Colowyo Mine is comprised of five open pits: the East Pit, the Section 16 Pit, the West Pit, the South Taylor Pit, and the Collom Pit. Multiple seam mining is currently conducted in the Collom Pit, multiple seam mining was conducted in the East, West, and South Taylor Pits which are currently in reclamation and two seams were mined in the Section 16 Pit, which is also in reclamation. Coal from the Colowyo Mine is trucked to the Gossard Loadout and shipped to market by rail.

Permit History

Pre-startup activities for a surface mine permit commenced in the summer of 1973 and Open Pit Mining Permit No. 76-15 was issued on August 31, 1976. This permit was converted to Development and Extraction Mining Permit No. 76-15C/A on January 25, 1977. An application for Permit C-1981-019 was submitted on September 13, 1982 and the permanent program permit was issued on November 4, 1982. The permit was renewed on July 10, 1987 (RN-01), June 30, 1992 (RN-02), November 5, 1997 (RN-03),

November 5, 2002 (RN-04), October 23, 2009 (RN-05), May 20, 2013(RN-06), August 14, 2018 (RN-07), and February 25, 2023 (RN-08).

Mining History

Underground mining activities in the vicinity of the current permit were started in 1914. Colowyo conducted underground mining operations at the Red Wing Mine from 1945-1974. Surface mining operations began in 1976 and have continued uninterrupted to date. Initially permitted as a single seam operation, Colowyo began its operations in the East Pit, mining from north to south. The East Pit was developed as a multi-seam operation (eight seams) in 1977. An eastern appendage of the East Pit, the Section 11 Pit, was approved in 1991 and was later absorbed into the East Pit. Coal extraction by open pit mining concluded in the East Pit in 2003 with highwall mining continuing until 2006. Operations in the two-seam Section 16 Pit were initiated in 1998. The Section 16 Pit mining was initially conducted from east to west but was later changed to mine from north to south, as coal resources were depleted. Mining in the Section 16 Pit concluded in 2002. The West Pit was developed as a multi-seam operation (eight seams) in 1998. The pit progressed from north to south and active mining operations were completed in 2015. The South Taylor Pit was developed as a multi-seam operation (7 seams) in 2007. Mining operations in the South Taylor Pit concluded in 2023. Coal extraction in the South Taylor Pit continues to date. With the approval of Permit Revision No. 4, the Collom Pit Area, located west of the South Taylor Pit, has been incorporated into Colowyo's Permit Application Package (PAP). Mining operations in the Collom Pit began in 2016 and is progressing from the north to the south. The Collom Pit is developed as a multi-seam operation (8 seams).

Auger mining was conducted at the interface between the Section 11 Pit and East Pit from 1993-1994. Highwall mining operations were conducted in the East Pit from 2004- 2006. Highwall mining operations were conducted in the West Pit in 2004, 2006, 2007 and 2008. Highwall mining operations were conducted in the South Taylor Pit beginning in 2009 through 2023. Highwall mining is currently being conducted in the Collom Pit. The use of highwall mining at the Colowyo Mine has extended the economic recovery of coal resources beyond the economic limits of deep-pit operations.

Section II - Revisions to Permit C-1981-019

Since the approval of Permit Renewal No. 8 (April 18, 2022), the following minor revisions (MR) and technical revisions (TR) have been received for Permit No. C-1981- 019.

- Minor Revision 240 MR240 updates Exhibit 13C with additional areas scheduled for topsoil removal to support the advancement of surface and highwall mining in the Collom Pit. The revision was received on April 20, 2022, deemed complete on April 25, 2022 and approved on April 25, 2022. +\$408,354.00
- Technical Revision 153 TR153 provides a new design for the at grade crossing at Moffat County Road 51 to facilitate moving a dragline through the crossing. The revision was received on April 21, 2022, deemed complete on April 26, 2022 and approved on June 28, 2022. +\$524.00
- Technical Revision 154 TR154 proposes are revised mining plan and post mine topography for the Collom Pit. The revision was received on May 3, 2022, deemed complete on May 13, 2022 and approved on July 12, 2022.
- Minor Revision 241 MR241 proposes updated to the topsoil movement for the West and South Taylor Pits. The revision was received on May 23, 2022, deemed complete on June 2, 2022 and approved on June 6, 2022.
- Minor Revision 242 MR242 proposes a topsoil windrow on the west crest of Little Collom Gulch within the Collom Pit. proposes two light-use roads adjacent to the Collom Haul Road for access to monitor and maintain several small sediment sumps. The revision was received on June 20, 2022, deemed complete on June 30, 2022 and approved on July 8, 2022.
- Minor Revision 243 MR243 proposes a topsoil windrow on the west crest of Little Collom Gulch within the Collom Pit. The revision was received on July 14, 2022, deemed complete on July 22, 2022 and approved on August 1, 2022.
- Minor Revision 244 MR244 provides an updated certificate of insurance for the Colowyo Mine. The revision was received on August 2, 2022, deemed complete on August 3, 2022 and approved on August 3, 2022.
- Technical Revision 155 TR155 proposes two sediment ponds, the Upper and Lower Section 3
 Ponds respectively, which are proposed to be within Streeter Ditch directly below the primary crushing facility at Colowyo. The sediment ponds will be used in series with the Lower Section 3 Pond being a non-discharging structure. The revision was received on August 16, 2022, deemed complete on August 26, 2022 and approved on October 17, 2022.
 +\$95,851.00
- Technical Revision 156 TR156 proposes to include a geotechnical report addendum (Exhibit 23, Item 4) into the permit to address the requirement from Exhibit 23, Item 1 (Figure 4), for a geotextile fabric to placed over the underdrain in the Little Collom Gulch Valley Fill. The revision was received on September 23, 2022, deemed complete on October 3, 2022 and approved on November 7, 2022.

- Technical Revision 157 TR157 proposes to reduce Colowyo's reclamation liability. The revision was received on December 8, 2022, deemed complete on December 16, 2022 and approved on February 14, 2023. \$38,218,109.00
- Minor Revision 245 MR245 revised the mine plan timing for theSouth Taylor Pit, and provides documentation of a wildfire that occurred within the mine permit boundary. The revision was received on December 14, 2022, deemed complete on December 20, 2022 and approved on December 20, 2022.
- Technical Revision 158 TR158 proposes additional sediment control measures for the Final East Pit Ditch watershed. The revision was received on December 15, 2022, deemed complete on December 23, 2022 and approved on February 21, 2023. +\$100,910.00
- Technical Revision 159 TR159 proposes access roads in the East Pit reclamation areas to construct sediment ponds and manage post mine channels and stock ponds. TR-159 also includes disturbance acres for a borrow area directly north of the Section 3 Ponds locations to facilitate construction of both ponds this summer, and TR-159 proposes to revised Reach 1 of the Final East Pit Ditch from a nonerobile channel to a riprap lined channel. The revision was received on April 11, 2023, deemed complete on April 21, 2023 and approved on May 26, 2023. +\$26,097.00
- Minor Revision 246 MR246 updates Exhibit 13C with the dragline regrade volumes for the Collom Pit, and updates Map 26A with blasting information for a new structure north of the permit area. The revision was received on April 21, 2023, deemed complete on May 1, 2023 and approved on May 9, 2023. +\$251,184.00
- Minor Revision 247 MR247 proposes a topsoil pile in the West Pit reclamation, and updates Section 4.12 with ground disturbing activities that are occurring within Colowyo's permit boundary that is not associated with Colowyo's mining operations. The revision was received on June 13, 2023, deemed complete on June 20, 2023 and approved on June 29, 2023. +\$729.00
- MR248 MR248 proposes a topsoil pile to support advancement of the Collom Pit and proposes updates to Exhibit 13C – Cumulative Bond Schedule with topsoil removal and stockpiling for continued development of the Collom Pit. The revision was received on June 26, 2023, deemed complete on July 6, 2023 and approved on July 14, 2023. +\$283,631.00
- Minor Revision 249 MR249 provides an updated cultural resource baseline report and proposes installation of an emergency propane generator. The revision was received on July 12, 2023, deemed complete on July 17, 2023 and approved on August 24, 2023. +\$13,707.00
- Minor Revision 250 MR250 provides a new certificate of insurance for Colowyo Mine. The revision was received on August 1, 2023, deemed complete on August 2, 2023 and approved on August 2, 2023.
- Minor Revision 251 MR251 provides documentation of a wildland fire that occurred within the mine permit boundary that is not associated with Colowyo's mining operation. The revision was received on August 7, 2023, deemed complete on August 16, 2023 and approved on August 17, 2023.

- Minor Revision 252 MR252 proposes to add another magnesium chloride tank at the Gossard Loadout Facility. The revision was received on August 9, 2023, deemed complete on August 18, 2023 and approved on August 24, 2023. +\$704.00
- Technical Revision 160 TR160 proposes six small channels and three sediment sumps to manage storm water runoff from the Collom Haul Road. Some of the proposed channels will route stormwater runoff to existing sediment control structures and others are proposed to be routed to existing sumps or newly proposed sumps. The revision was received on September 18, 2023 deemed complete on September 28, 2023 and approved on December 12, 2023. +\$25,577.00
- Technical Revision 161 TR161 proposes revisions to the Collom Mine Plan by reducing the areas to be mine and revises the overall mining timing. TR-161 also proposes a revised post mine topography (PMT) for the Collom and South Taylor Pits. The revision was received on October 24, 2023, deemed complete on November 3, 2023 and approved on December 14, 2023. +\$114,512.00
- Minor Revision 253 MR253 proposes to change the resident agent for Colowyo. The revision was received on December 12, 2023, deemed complete on December 14, 2023 and approved on December 14, 2023.
- Technical Revision 162 TR162 proposed the GD-3 channel to route surface water runoff from the intersection of Haul Road A and the Collom Haul Road to the Gossard Pond. The revision was received on February 5, 2024, deemed complete on February 13, 2024 and approved on March 15, 2024. +\$6,105.00
- Technical Revision 163 TR163 provides the as-builts for EP1, EP2, EP3 stock ponds, and the Section 15 Pond. The revision was received on February 22, 2024, deemed complete on February 26, 2024 and approved on March 26, 2024.
- Minor Revision 254 MR254 corrected issues with tables numbers for Colowyo's seed mixture and contingency seed mixture. It also revised the surface water monitoring plan, by changing the correct laboratory methodology for Mercury from total recoverable to total. The revision was received on March 21, 2024, deemed complete on March 29, 2024 and approved on April 3, 2024.
- Minor Revision 255 MR-255 allowed for the re-brushing of a light use road on the west side of Taylor Creek. The revision was received on June 25, 2024, deemed complete on July 2, 2024 and approved on July 10, 2024. +\$5,780.00
- Minor Revision 256 MR-256 provides an updated certificate of liability insurance for Colowyo. The revision was received on August 5, 2024, deemed complete on August 6, 2024 and approved on August 6, 2024.
- Minor Revision 257 MR-257 documented ground disturbance activities that occurred within Colowyo's permit boundary from an adjacent solar construction project. The ground disturbance is not associated with Colowyo. The revision was received on August 12, 2024, deemed complete on August 14, 2024 and approved on August 22, 2024.

- Minor Revision 258 MR-258 proposed disturbance for a light-use road along the west side of Taylor Creek. The revision was received on August 15, 2024, deemed complete on August 15, 2024 and approved on August 16, 2024. +\$8,710.00
- Minor Revision 259 MR-259 proposed to retain the Streeter Pond as a permanent impoundment at the request of the surface landowner. The revision was received on August 21, 2024, deemed complete on August 26, 2024 and approved on August 28, 2024.
- Technical Revision 164 TR164 provides the as-built for the Upper and Lower Section 3 Ponds. The revision was received on September 19, 2024, deemed complete on September 20, 2024 and approved on November 1, 2024.
- Technical Revision 165 TR165 proposed reduction of the permit boundary to remove the Streeter Ditch and Pond. The revision was received on December 12, 2024, deemed complete on December 20, 2024 and approved on March 3, 2025.
- Technical Revision 166 TR166 proposes changes to the Colowyo's topsoil replacement and seeding plans. The revision was received on March 11, 2025, deemed complete on March 12, 2025 and approved on April 8, 2025.
- Minor Revision 260 MR-260 provides an updated certificate of liability insurance for Colowyo. The revision was received on April 8, 2025, deemed complete on April 8, 2025 and approved on April 8, 2025.
- Minor Revision 261 MR-261 updates the permit by removing references to Streeter Pond and the lower segment of Streeter Ditch which have been Phase III released and are now outside the mine permit boundary. The revision was received on April 9, 2025, deemed complete on April 9, 2025, and approved on April 9, 2025.

Section III - Status of Stipulations

According to the Division's records, there are five outstanding stipulations attached to Permit No. C-1981-019. These stipulations are listed below.

Stipulation 2	Prior to disturbing any lands in the Lower Wilson area, the Colowyo Coal Company shall provide the Division with a PERMIT revision containing a mine plan and a reclamation plan and any additional baseline monitoring information (surface water, ground water, soils, vegetation, etc.) requested by the Division. The approval of Permit Revision 02 is only an approval for disturbance in the South Taylor Pit (South Taylor Pit, West Valley Fill, East Valley Fill and associated structures). NO DISTURBANCE IS APPROVED FOR THE LOWER WILSON AREA WITH THE APPROVAL OF PERMIT REVISION 02.
Stipulation 3	Prior to disturbing the Lower Wilson area the Colowyo Coal Company shall perform further archaeological investigations on seven areas identified as requiring more detailed study in the October 1984 report titled "Cultural Resources Investigations in the Danforth Hills Proposed Coal Lease Area; Moffat and Rio Blanco Counties, Colorado; Consolidation Coal Company. These areas are as follows: 5MF1652,
Colowyo Mine Permit No. C-1981-019	Midterm Review No. 8 May 5, 2020

5MF1935, 5MF1937, 5MF4003, 5MF4010, 5MF4011 AND THE Bison BoneIN THE CUT-BANK.

The additional study data will be forwarded to the Colorado Historic Society for their evaluation and a determination of the proper course of action required.

Stipulation 4 Prior to disturbing the Lower Wilson area the Colowyo Coal Company shall perform further archaeological investigations on the six areas identified on Map 16A as "unsurveyed areas". Additionally, Colowyo will be required to survey any other areas that are determined to have no survey or inadequate survey data. The six unsurveyed areas shown on Map 16A are all within Township 4 North Range 93 West and are basically described as follows:

> SW¹/4 SW¹/4 Section 15 SW¹/4 SW¹/4 Section 22 SE¹/4 NE¹/4 Section 28 SW¹/4 SE¹/4 Section 28 E¹/₂ NW¹/4 Section 33 W¹/₂ SW¹/4 Section 33

The additional study data will be forwarded to the Colorado Historic Society for their evaluation and a determination of the proper course of action required.

- Stipulation 19 Dewatering well permits must be in place, and a minor revision be submitted and approved by the Division to update Section 2.03.10 of Volume 1 of the Permit Application Package, before any construction of any dewatering wells associated with the Collom Pit is allowed to occur.
- Stipulation 20A discharge permit for water pumped from the dewatering wells must be
in place, and a minor revision to the Permit submitted and approved by
the Division to update section 2.03.10 of Volume 1 of the Permit
Application Package, before any pumping from wells associated with the
Collom Pit is allowed to occur.

Section IV - Permit Variances

Rule 2.06.2 - Experimental Practices Mining: The Colowyo Mine originally constructed the Streeter Fill as an experimental practice under Rule 2.06.2. With the approval of Technical Revision 10, approved on August 28, 1986, the division changed the status of the fill from experimental and determined that the fill meet all of the requirements of Rule 4.09. Detailed information regarding the Streeter Fill can be found in Permit Sections 2.06.2 and 4.09 and in Exhibit 12.

Colowyo Mine Permit No. C-1981-019 **Rule 2.06.3** - Mountaintop Removal Mining: The Colowyo Mine does not conduct mountaintop removal operations.

Rule 2.06.5 - Permits Incorporating Variances from Approximate Original Contour Restoration Requirements for Steep Slope Mining: The Division has granted Colowyo a variance from approximate original contour for portions of the South Taylor Pit. A large portion of the South Taylor Pit has slopes in excess of 20 degrees. Pursuant to Rule 2.06.5 (2), the Division has made the appropriate written findings regarding this variance. The most recent findings were written for Permit Renewal 07 and are dated August 14, 2018. Additionally, pursuant to Rule 2.06.5(3)(c), the Division is required to "evaluate the progress and development of the mining activities and to establish that the permittee is proceeding in accordance with the terms of the variance... (n)ot later than the middle of each permit term." At the present time Colowyo is mining within the South Taylor Pit and no reclamation has been performed in this area. Colowyo is placing excess material into the previously mined area of the South Taylor Pit as described in the approved plan. The Division will continue to monitor the activities in the South Taylor Pit and, pursuant to Rule 2.06.5(3)(b). No variance from approximate original contour for the Collom Pit has yet been requested. Colowyo maintains the option to pursue this in the future as an amendment to the permit.

Rule 2.06.7 - Variances for Delay in Contemporaneous Reclamation Requirements in Combined Surface and Underground Mining Operations: Colowyo does not have any combined surface and underground mining operations

Section V - Decision to Require Revisions or Additional Information

Pursuant to 2.08.3, the Division finds that the permit application C-1981-019 contains deficiencies or items which need addressed following the review for the purpose of fulfilling the requirements of the Colorado Surface Coal Mining Reclamation Act, and the Regulations of the Colorado Mined Land Reclamation Board for Coal Mining. The Division requests that the permittee correct the deficiencies or replay to the Division's comments by submission of revised permit pages under an appropriate revision application, or by activities on the ground, by July 7, 2025.

Vol 1 Rule 2.01 - General Requirements

- 1. Please update the total permit area referenced in Section 2.01.6 for Volume 1.
- 2. In previous years, Colowyo's Certificate of Liability Insurance has been submitted to the Division via a Minor Revision to incorporate the certificate into the formal permit file. This year, Colowyo submitted their Certificate of Liability Insurance to the Division's public records via a General Documents upload. The Certificate of Liability Insurance document is not required by Rule to be included in the formal permit. If Colowyo wishes to cease formal documentation of the Certificate of Liability Insurance via Minor Revisions, please request that this section, Exhibit 03, be removed from the permit.

Vol 1 Rule 2.03.5 - Compliance Information

3. Exhibit 2, Item 3 lists violation notices received during the last three years by Colowyo in connection with the surface coal mining operation and lists violation notices received by those

companies related through the "ownership and control" relationship. Please update these sections to include the following violations cited for Colowyo and other sites related to Colowyo through 'ownership and control': Colowyo, CV2022001 and Trapper Mine, CO-2023001 and CV2023001.

Vol 1 Rule 2.04.4 – Cultural and Historical Resource Information

4. Several time, this section sites Map 16 as the 'Historical and Archaeological Site Map'. However, this map has since been updated to the label 'Map 16B'. Please revise this portion of the permit narrative to reflect the new map citation.

Vol 1 Rule 2.04.6 – Geology Description

5. Pages 2.04-9 and 2.04-10 cite a 'Map 7' as the Geology Map. However, this map has since been updated to the label 'Map 7A' and is correctly referenced a such mid page 2.04-10. Please revise this portion of the permit narrative to reflect the new map citation.

Vol 1 Rule 2.04.7 – Hydrology Information

 Page 2.04-22 lists all surface water ponds in the mine area. Currently, this list does not include reference to the newly built Upper and Lower Section 3 Ponds or to Section 15 Pond. Please revise this portion of the permit narrative to reflect the pond additions.

Vol 1 Rule 2.04.10 – Vegetation Information

Page 2.04-52 references a 'Regional Vegetation Map (Map 3)'. However, regional vegetation maps for the entire permit area are currently found on Map 4C Sheets 1 – 11. Please revise this portion of the permit narrative to reflect the updated map citation.

Vol 1 Rule 2.04.11 – Fish and Wildlife Resources Information

- 8. Please review and update Threatened and Endangered Wildlife/Plant Species sections of the Colowyo's PAP as necessary.
- 9. Page 2.04-58, 2.04-65 and 2.04-67 reference a 'Map 14, Wildlife Agent Information', but no such map exists within the permit file. The Division assumes that Map 15B Sheets 1-3 is the correct citation for these wildlife maps. If so, please update the map citation in this section. If not, please clarify the correction citation for 'Map 14, Wildlife Agent Information'.
- Pages 2.04-59, 2.04-60 and 2.04-62 reference a 'Big Game Use Information Map (Map 13)'. However, this information is currently found on Map 13B Sheets 1 and 2. Please revise this portion of the permit narrative to reflect the updated map citation.
- Page 2.04-63, 2.04-65 and 2.04-67 reference a 'Wildlife Observations Map (Map 15)'. However, this information is currently found on Map 15B Sheets 1 - 3. Please revise this portion of the permit narrative to reflect the updated map and sheet citations.

Vol 1 & 12 Rule 2.05.3 - Operations Plan

- 12. Please update the following tables as necessary.
 - Table 2.03-1 -Affected Areas for Mining and Reclamation
 - Table 2.04.10-1-4 Vegetation Community Distribution on Areas to be Mined
 - Table 2.04.9-7 Topsoil Mass Balance South Taylor Mine Area
 - Table 2.04.11-15 Threatened and Endangered Species Potentially Occurring within the Moffat and Rio Blanco Counties
 - Table 2.05-1 -Topsoil Balance as of December, 2023
 - Table 2.05-2 Historical Coal Shipped (Sold) and Anticipated Annual Shipped (Sold)
 - Table 2.05.2-22 Total Colowyo Coal Production, 2006 2017
 - Table 2.05.6-5 Collom Coal Production and Collom Mine Plan Volumetric Balance

Vol 1 Rule 2.05.4 - Reclamation Plan

- 13. The Reclamation Plan cites the Postmining Topography Map as Map 19. However, this information is also presented on Map 44. Please revise this portion of the permit narrative to reflect the additional map citation.
- 14. Page 2.05-28 states that "haul road and road embankment slopes and adjacent areas have been mechanically stabilized and seeded with a mixture shown in Table 7 Reclamation Seed Mixture". Please clarify if this reference is referring to Table 2.05-7 Grazingland Seed Mixture. If so, please update this section of the permit narrative.
- 15. Pages 2.05-38 through 52 are repeated pages. A new section 2.05.4 section of the permit narrative should be submitted which omits these pages.

Volume 1 Rule 3

16. This section references a Map 39 as depicting Bond Calculation Cross Sections. However, no such map is currently found within the permit. Please submit this map or update and replace the map citation.

Volume 1 Rule 4

- 17. Page 4-2 references 'Map 19' to represent approved AOC for South Taylor and Lower Wilson areas. However, this information can also be found on Maps 19A and 19B in the permit. Please revise this portion of the permit narrative to reflect the updated map citations.
- 18. Page 4-6 references Map 21 and 22 to depict the location of Existing Structures used in support of the mining operation for the South Taylor and Lower Wilson areas. However, this information can also be found on Map 22A in the permit. Please revise this portion of the permit narrative to reflect the updated map citations.
- 19. Page 4-10 references a 'Soils South Map (Map 6) and Soils North Map (Map 5)'. The Soils North Map (Map 5) does not exist within the permit. Please either submit this map to the permit record or update this section of the permit narrative to use a different

map citation.

Volume 12 Rule 2.0

- 20. Rule 2, page 14 references Map 7A as a map which depicts the location of boreholes related to the evaluation of geochemical properties of overburden in the South Taylor area. However, the Map 7A included in the permit file does not show these borehole locations. Please update this section with a corrected citation or remove the citation if no map of the borehole locations exists.
- 21. Rule 2, Page 19 references a 'Map 10' to depict bedrock and shallow monitoring wells for South Taylor. However, this information is also currently found on Maps 10A and 10B in the permit. Please revise this portion of the permit narrative to reflect the updated map citations.
- 22. Rule 2, Pages 30, 31, 36 reference a 'Map 5A' to represent soils information for South Taylor and Lower Wilson areas. However, this information is also currently found on Map 05D Sheets 1 6 in the permit. Please revise this portion of the permit narrative to reflect the updated map citations.
- 23. Rule 2, Page 42 references 'Maps 4A and 4B' to represent native vegetation type distribution in South Taylor and Lower Wilson areas. However, this information is currently found on Maps 04 and 04C in the permit. Please revise this portion of the permit narrative to reflect the updated map citations.
- 24. Rule 2, Page 60 references 'Maps 13A, 14A, and 15A' to delineate the distribution of all special-interest habitats identified in the South Taylor area. However, no such map exists within the permit file. Please update the map citation in this section.
- 25. Rule 2, Page 62 references 'Map 13B' to represent mule deer ranges in South Taylor and Lower Wilson areas. This citation is incomplete, as this information is found more specifically on Map 13B Sheet 2. Please revise this portion of the permit narrative to reflect the updated map citation.
- 26. Rule 2, Page 72 references 'Map 23' to represent locations of the East Taylor Fill and West Taylor Fill areas. However, this information can also be found on Map 23A in the permit. Please revise this portion of the permit narrative to reflect the updated map citations.

Volume 12 Rule 3.0

- 27. This section lists Map 40A as the Bond Calculation Cross Sections. However, the current permit and map submitted is titled 'Map 40'. Please revise this portion of the permit narrative to reflect the updated map citation.
- 28. Map 38, as referenced to in this section, has been renumbered and moved in the permit file. Please update this section's citation to reflect this change.

Volume 15 Rule 2.0

- 29. Rule 2, Page 14 is repeated in the Division's version of Volume 15 Rule 2.0. Please submit an updated Rule 2 with this extraneous page removed.
- 30. Rule 2, Page 69 references a 'Map 11B', stating that geologic cross sections for Collom Pit are represented on this map. However, Map 11B is the 'Groundwater Well and Drillhole Locations' map and no cross sections are present on the map. Please correct this map citation and submit a revised page.

Volume 15 Rule 4.0

- 31. The second paragraph on Rule 4, Page 19 repeatedly mentions a map which depicts the location of possible raptor nesting sites and the location of habitat enhancement 'stock ponds', but no map citation is found in this section. Please update the page and add an appropriate citation.
- 32. Rule 4, Pages 24 38 are repeats of pages already listed in Volume 15, Rule 4.0. Please provide a full document of Volume 15, Rule 4 with these extraneous pages removed.

Section VI - Bonding Summary

The Division currently holds bond monies, in the form of one corporate surety in the amount of \$119,000,000.00. A compiled reclamation cost estimate was developed by the Division as a part of the Permit Renewal No. 8 process issued on February 25, 2023. The Division's reclamation costs have been updated since that date. Per Rule 3.02.1(6), Colowyo has elected to file a cumulative bond schedule for the permit term and not the life of the Mine. For the worst-case-scenario at Colowyo, the Division has determined the reclamation liability for the 2023 - 2028 permit term is \$134,625,646.00. The previous worst-case-scenario at Colowyo was \$117,304,293.00. The difference between this amount for the worst-case-scenario and the previously calculated worst-case-scenario bond reported is an increase of \$17,321,353.00. Therefore, with a bond held in the amount of \$119,000,000.00 by the Division, the Division has an **insufficient** amount in bond monies to assure completion of the remaining reclamation work at the Colowyo Mine if the work had to be performed by the Division, including the cost of reestablishing vegetation on any revegetated areas, should those areas fail. The Division will initiate a surety increase revision pursuant to Rule 3.02.2(4) and provide the permittee with an opportunity for an informal conference on the adjustment pursuant to Rule 3.02.2(4)(a).

This concludes the Division's Midterm Review No. 9 for the Colowyo Mine.

COST SUMMARY WORK

Task	description:	MT9 Reclamation	on Cost Estin	nate		_	
Site: Co	olowyo Coal Mine	Per Per	mit Action:	MT9	Permit/Job	#: <u>C1981019</u>	
<u>PROJ</u>	IECT IDENTIF	<u>ICATION</u>					
Та	ask #: 000	State:	Colorado		Abbreviation:	None	
	Date: 2/6/2025	County:	Moffat		Filename:	C019-000	
	User: HR1						
	Agency or org	anization name: DR	MS				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
0.01	Description	Used	Size	Hours	Cost
001	Drill and Shoot South Taylor Highwall - Cast Blast (3000 ft)	BLASTING	1	879.14	\$1,547,721
002	Load and Haul Spoil to TS-1	TRUCK1	1	958.68	\$5,208,378
003	Load and Haul Spoil to TS-2	TRUCK1	1	494.74	\$2,436,121
004	Load and Haul Spoil to TS-3	TRUCK1	1	270.80	\$1,333,425
005	Load and Haul Spoil to TS-4	TRUCK1	1	399.85	\$1,765,366
006	Load and Haul Spoil to TS-5	TRUCK1	1	119.70	\$528,475
007	Load and Haul Spoil to TS-6	TRUCK1	1	341.24	\$1,506,622
008	Load and Haul Spoil to TS-7	TRUCK1	1	669.72	\$3,297,678
009	Load and Haul Spoil to TS-8	TRUCK1	1	1,345.11	\$6,623,306
010	Load and Haul Spoil to TS-9	TRUCK1	1	1,153.88	\$6,268,898
011	Load and Haul Spoil to TS-10	TRUCK1	1	1,181.95	\$6,421,374
012	Load and Haul Spoil to TS-11	TRUCK1	1	1,020.93	\$5,546,596
013	Load and Haul Spoil to TS-12	TRUCK1	1	1,054.82	\$5,193,928
014	Load and Haul Spoil to TS-13	TRUCK1	1	1,043.25	\$5,136,979
015	Load and Haul Spoil to TS-14	TRUCK1	1	1,194.17	\$5,880,088
016	Load and Haul Spoil to TS-15	TRUCK1	1	1,151.28	\$6,254,777
017	Load and Haul Spoil to TS-16	TRUCK1	1	362.82	\$1,786,528
018	Load and Haul Spoil to TS-17	TRUCK1	1	330.23	\$1,626,071
019	Load and Haul Spoil to TS-18	TRUCK1	1	197.32	\$871,174
020	Load and Haul Spoil to TS-19	TRUCK1	1	63.42	\$280,003
021	Load and Haul Spoil to TS-20	TRUCK1	1	118.78	\$584,860
022	Load and Haul Spoil to TS-21	TRUCK1	1	175.34	\$774,150
023	Load and Haul Spoil to TS-22	TRUCK1	1	91.01	\$401,812
024	Regrade Gossard Loadout	DOZER	4	2.36	\$6,318
025	Rip Facilities Area	RIPPER	4	60.17	\$217,646
026	Rip Coal Stockpile Area	RIPPER	1	3.66	\$3,311
027	Rip Gossard Loadout	RIPPER	4	0.96	\$3,491
028	Rip Haul Road A and Haul Road B	RIPPER	4	3.14	\$11,383
029	Regrade Haul Road A Upper and Lower Ditch	DOZER	1	0.32	\$204
030	Rip Gossard Loadout Road	RIPPER	4	1.26	\$4,563
031	Regrade Gossard Loadout Road	DOZER	4	1.70	\$4,568
032	"Mine" Riprap from South Taylor Pit Temporary	SITEMAINT	1	0.00	\$1,566,756
	Stockpiles for	ENANCE			
033	Regrade Prospect Pond	DOZER	1	34.19	\$15,736
035	Regrade Gossard Loop Pond	DOZER	1	2.28	\$1,089
036	Regrade Rail Loop Pond	DOZER	1	0.99	\$473
037	Regrade Sewage and Aeration Pond	DOZER	1	12.87	\$6,142
038	Regrade Stoker Siding Pond	DOZER	1	7.52	\$3,590

039	Regrade Wash Bay Pond	DOZER	1	38.23	\$18,244
040	Regrade Wash Bay Sediment Sump	DOZER	1	1.78	\$850
041	Regrade Work Area Pond	DOZER	1	134.18	\$64,039
042	Regrade Section 16 Pond	DOZER	1	43.08	\$20,562
043	Regrade East Taylor Pond	DOZER	1	19.87	\$9,483
044	Regrade West Pit Pond	DOZER	1	7.77	\$3,711
045	Regrade Taylor Pump Holding Pond	DOZER	1	55.40	\$26,439
046	Regrade Section 28 Pond	DOZER	1	64.92	\$30,982
047	Regrade West Taylor Pond	DOZER	1	21.38	\$10,204
048	Remove and Regrade South Collection Ditch	EXCAVATE	1	62.58	\$10,179
049	Remove and Regrade Prospect Collection Ditch	EXCAVATE	1	11.52	\$1,875
050	Remove and Regrade North Side Facilities Ditch	EXCAVATE	1	6.10	\$993
051	Remove and Regrade Stoker Ditch	EXCAVATE	1	5.85	\$952
052	Remove and Regrade West Side Facilities Ditch	EXCAVATE	1	24.42	\$3,972
053	Remove and Regrade West Pit Coal Road Ditch	EXCAVATE	1	14.24	\$2,317
054	Remove and Regrade East and West Section 16	EXCAVATE	1	27.13	\$4,414
	Ditch				
055	Remove and Regrade Section 16 Fill Ditch	EXCAVATE	1	14.92	\$2,428
056	Remove and Regrade Section 28 Collector Ditch	EXCAVATE	1	15.87	\$2,581
057	Remove and Regrade Section 29 Collector Ditch	EXCAVATE	1	22.36	\$3,637
058	Remove and Regrade 4 Haul Road A Sediment	EXCAVATE	1	4.32	\$704
	Traps				
059	Remove and Regrade Six Post-Mining Stock	EXCAVATE	1	52.66	\$8,565
	Ponds				
060	Doze Topsoil Pile 9A in West Pit	DOZER	1	0.70	\$337
061	Haul Topsoil from Stockpile 15A to Facilities Area	TRUCK1	2	161.98	\$1,815,772
062	Haul Topsoil from Pile 15B to West Pit	TRUCK1	2	24.77	\$277,716
063	Haul Topsoil from Stockpile 15E to Facilities Area	TRUCK1	2	0.46	\$4,674
064	Haul Topsoil from Stockpile 15F to Facilities Area	TRUCK1	2	1.16	\$11,855
065	Haul Topsoil from Stockpile 15G to Facilities Area	TRUCK1	2	3.56	\$39,955
066	Haul Topsoil from Stockpile 15H to Facilities Area	TRUCK1	2	8.39	\$85,506
067	Haul Topsoil from Stockpile 15I to Haul Road A	TRUCK1	2	5.71	\$58,190
068	Haul Topsoil from Pile 16C to South Taylor Pit	TRUCK1	2	20.24	\$226,904
069	Haul Topsoil from Pile 16D to South Taylor Pit	TRUCK1	2	135.49	\$1,518,758
070	Haul Topsoil from Pile 16E to South Taylor Pit	TRUCK1	2	129.16	\$1,447,783
071	Haul Topsoil from Pile 17A to Haul Road A	TRUCK1	2	2.08	\$23,318
072	Haul Topsoil from Stockpile 17A - 17E to Gossard	TRUCK1	2	1.49	\$15,137
	Loadout		_		
073	Haul Topsoil from Stockpile 18 to South Taylor Pit	TRUCK1	2	70.45	\$861,365
074	Haul Topsoil from Stockpile 27A to Haul Road A	TRUCK1	2	2.40	\$24,468
075	Doze Topsoil from Windrow 1 - Windrow 5 in West Pit	DOZER	1	37.70	\$34,085
076	Replace 48" of Topsoil on Aspen Study Area	TRUCK1	2	11.09	\$124.364
077	Replace 48" of Topsoil on Tall Mountain Shrub	TRUCK1	2	8.32	\$93,268
	Study Area				,
078	Replace 4" of Topsoil on Tall Mountain Shrub	TRUCK1	2	0.69	\$7,773
	Study Area				
079	Replace Topsoil from Stockpile to Prospect Pond	DOZER	1	9.19	\$4,430
081	Replace Topsoil from Stockpile to Rail Loop Pond	DOZER	1	1.77	\$852
082	Replace Topsoil from Stockpile to Gossard Pond	DOZER	1	5.30	\$2,555
083	Replace Topsoil from Stockpile to Sewage and	DOZER	1	10.25	\$4,941
	Aeration Pond				
084	Replace Topsoil from Stockpile to Stoker Siding	DOZER	1	2.65	\$1,278
	Pond		4		4
085	Replace Topsoil from Stockpile to Wash Bay Pond	DOZER	1	12.72	\$6,133

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086	Replace Topsoil from Stockpile to Wash Bay Sediment Sump	DOZER	1	2.47	\$1,192
087	Replace Topsoil from Stockpile to Work Area Pond	DOZER	1	13.43	\$6,474
088	Replace Topsoil from Stockpile to Section 16 Pond	DOZER	1	16.25	\$7,836
089	Replace Topsoil from Stockpile to East Taylor Pond	DOZER	1	6.01	\$2,896
090	Replace Topsoil from Stockpile to Taylor Pump Holding Pond	DOZER	1	1.77	\$852
091	Replace Topsoil from Stockpile to West Pit Pond	DOZER	1	10.95	\$5,281
092	Replace Topsoil from Stockpile to Section 28 Pond	DOZER	1	8.83	\$4,259
093	Replace Topsoil from Topsoil Pile 17F to West Taylor Pond	DOZER	1	8.83	\$4,259
094	Replace Topsoil from Stockpile to Collection Ditches	EXCAVATE	1	79.52	\$12,934
095	Plug and Seal All Wells and Piezometers for EP, WP and STP	BOREHOLE	1	28.00	\$17,855
096	Seal South Taylor In-Pit Exploration Holes (MR153+MR158)	BOREHOLE	1	164.00	\$115,982
097a	Reseed East Pit with Grazing Land Seed Mix	REVEGE	1	13.00	\$17,664
097b	Reseed East Pit with Grazing Land Seed Mix - Phase 1 Released	REVEGE	1	7.00	\$9,457
097c	Reseed East Pit with Grazing Land Seed Mix - Phase 2 Released	REVEGE	1	31.00	\$42,550
098b	Reseed East Pit with Sagebrush Steppe Seed Mix - Phase 1 Rel	REVEGE	1	2.00	\$3,478
098c	Reseed East Pit with Sagebrush Steppe Seed Mix - Phase 2 Rel	REVEGE	1	2.00	\$1,921
099a	Reseed West Pit with Grazing Land Seed Mix	REVEGE	1	119.50	\$162,374
099b	Reseed West Pit with Grazing Land Seed Mix - Phase 1 Release	REVEGE	1	22.50	\$30,579
099c	Reseed West Pit with Grazing Land Seed Mix - Phase 2 Release	REVEGE	1	107.90	\$146,606
100a	Reseed West Pit with Sagebrush Steppe Seed Mix	REVEGE	1	4.00	\$117,003
100b	Reseed West Pit with Sagebrush Steppe Seed Mix - Phase 1 Rel	REVEGE	1	4.00	\$35,324
100c	Reseed West Pit with Sagebrush Steppe Seed Mix - Phase 2 Rel	REVEGE	1	4.00	\$139,915
101	Reseed South Taylor Pit with Grazing Land Seed Mix	REVEGE	1	228.00	\$309,870
102	Reseed South Taylor with Sagebrush Steppe Seed Mix	REVEGE	1	4.00	\$399,284
103a	Reseed Facility Area with Grazing Land Seed Mix	REVEGE	1	15.00	\$20,246
103b	Reseed Facility Area with Sagebrush Steppe Seed Mix	REVEGE	1	4.00	\$123,793
104	Reseed Gossard Loadout with Grazing Land Seed Mix	REVEGE	1	30.00	\$10,191
105	Reseed Haul Road A with Grazing Land Seed Mix	REVEGE	1	18.00	\$24,866
106	Reseed Haul Road B with Grazing Land Seed Mix	REVEGE	1	21.20	\$7,202
107	Reseed Prospect Pond with Grazing Land Seed Mix	REVEGE	1	5.20	\$1,766
109	Reseed Rail Loop Pond with Grazing Land Seed Mix	REVEGE	1	1.00	\$340
110	Reseed Gossard Pond with Grazing Land Seed Mix	REVEGE	1	3.00	\$1,019
111	Reseed Sewage and Aeration Pond with Grazing	REVEGE	1	5.80	\$1,970
	Land Seed Mix				

112	Reseed Stoker Siding Pond with Grazing Land Seed Mix (MR208)	REVEGE	1	0.40	\$544
113	Reseed Wash Bay Pond with Grazing Land Seed Mix	REVEGE	1	7.20	\$2,446
114	Reseed Wash Bay Sediment Sump with Grazing Land Seed Mix	REVEGE	1	1.40	\$476
115	Reseed Work Area Pond with Grazing Land Seed Mix	REVEGE	1	7.60	\$2,582
116	Reseed Section 16 Pond with Grazing Land Seed	REVEGE	1	9.20	\$3,125
117	Reseed East Taylor Pond with Grazing Land Seed Mix	REVEGE	1	3.40	\$1,155
120	Reseed West Pit Pond with Grazing Land Seed Mix	REVEGE	1	6.20	\$2,106
121	Reseed Section 28 Pond with Grazing Land Seed Mix	REVEGE	1	5.00	\$1,698
122	Reseed West Taylor Pond with Grazing Land Seed Mix	REVEGE	1	5.00	\$1,698
123	Reseed Perimeter Ditches with Grazing Land Seed Mix	REVEGE	1	15.00	\$20,110
124	Reseed Aspen Reestablishment Area	REVEGE	1	24.00	\$295,904
125	Plant Tall Shrub Reestablishment Areas	REVEGE	1	36.00	\$438,414
126	Weed Control - 10% of Reseeded Areas Four Times	REVEGE	1	1,280.00	\$255,819
127	Demolish and Remove all Facilities	DEMOLISH	1	600.00	\$2,813,046
128	Mobilize/Demobilize Equipment for Initial Reclamation	MOBILIZE	1	107.55	\$1,495,270
129	Mobilize/Demobilize Equipment for Pond and Ditch Removal	MOBILIZE	1	5.55	\$10,860
130	Mobilize/Demobilize Equipment for Yearly Site Maintenance	MOBILIZE	1	12.22	\$85,797
131	Mobilize/Demobilize Equipment for Two Pond Cleanings	MOBILIZE	1	8.44	\$7,003
132	Site Maintenance During Ten Year Liability Period	SITEMAINT ENANCE	1	800.00	\$776,706
133	Pump 10 Sediment Ponds Prior to Two Cleanings	PUMPING	1	157.54	\$28,819
134	Clean 10 Sediment Ponds Two Times	TRUCK1	1	488.45	\$200,892
136	Reseed Geotechnical Hole Access Corridors	REVEGE	1	2.00	\$2,105
137	PM Drainage E., W., and ST Pits	NA	1	6,432.00	\$1,345,573
138	Rip Cut Line from Brush Fire (South Taylor)	RIPPER	1	1.51	\$1,381
140	Reseed Admin Building	REVEGE	1	0.80	\$2,989
141	Remove and Regrade Stock Pond PD1	EXCAVATE	1	4.18	\$681
142	Remove and Regrade Stock Pond PD2	EXCAVATE	1	5.77	\$939
143	Remove and Regrade Stock Pond EP1	EXCAVATE	1	4.83	\$786
144	Remove and Regrade Stock Pond EP2	EXCAVATE	1	9.16	\$1,490
145	Remove and Regrade Stock Pond NTEP1	EXCAVATE	1	7.79	\$1,267
146	Remove and Regrade Stock Pond ET1	EXCAVATE	1	2.66	\$434
147	Remove and Regrade Stock Pond ET2	EXCAVATE	1	8.87	\$1,443
148	Remove and Regrade Stock Pond ETD1	EXCAVATE	1	3.60	\$587
149	Remove and Regrade Stock Pond ETD2	EXCAVATE	1	3.60	\$587
150	Remove and Regrade Stock Pond WTD1	EXCAVATE	1	3.60	\$587
151	Regrade Haul Road A Widening	DOZER	1	440.36	\$398,174
152	Regrade Topsoil for Raw Water Line Expansion	DOZER	1	0.08	\$73
153	Reseed Raw Water Line Expansion	REVEGE	1	0.50	\$2.105
154	Regrade Upper Section 3 Pond	DOZER	1	55.60	\$26,537
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1.5.5		DOZED	1	(7.40)	\$22.1 (0)
155	Regrade Lower Section 3 Pond	DOZER	1	67.40	\$32,169
156	Regrade Topsoil for Upper and Lower Section 3 Pond Dist	DOZER	1	26.08	\$12,449
157	Reseed Upper and Lower Section 3 Pond Disturbance	REVEGE	1	13.00	\$17,596
158	Pump Upper/Lower Section 3 Ponds Prior to Two Cleanings	PUMPING	1	12.90	\$1,038
160	Regrade 0.3 Acres Disturbance (TR-153)	DOZER	1	0.86	\$296
161	Reseed 0.3 Acres (TR-153)	REVEGE	1	0.50	\$204
162	Remove and Regrade Stock Pond EP3	EXCAVATE	1	9.16	\$1.490
163	Regrade Section 15 Pond	DOZER	1	33.79	\$16.126
164	Replace Topsoil for Section 15 Pond (6.3 acre)	DOZER	1	16.64	\$8.025
165	Reseed Section 15 Pond with Grazing Land Seed Mix	REVEGE	1	6.00	\$4,280
166	Section 15, EP3 Inlet and EP3 Outlet Post-Mining Channels	NA	1	301.07	\$57,444
167	Regrade East Pit Access Roads and Sect 3 Pond Borrow Topsoil	DOZER	1	31.06	\$10,687
168	Reseed East PIt Roads and Sect 3 Pond Borrow Area	REVEGE	1	19.50	\$13,248
169	Construct STPit Trib 1 and Collom PIt Dusky Draw	NA	1	409.50	\$85,680
170	Regrade Topsoil Pile 9A	DOZER	1	2.32	\$668
171	Regrade brushed material from 69 kV power line road	DOZER	1	4.64	\$2,239
172	Reseed 69 kV power line road	REVEGE	1	4.00	\$2,378
173	Regrade brushed material from 69 kV power line road	DOZER	1	7.03	\$3,391
174	Reseed 69 kV power line road	REVEGE	1	5.00	\$3,601
401	Remove Collom Haul Road and Facility Culverts (MR203)	DEMOLISH	1	26.00	\$139,969
402	Demo Collom Facilities and Haul Road Crossing (MR223, MR225)	DEMOLISH	1	60.00	\$338,243
403	Rip 29,458' of Collom Haul Road	RIPPER	2	12.69	\$2,607
404	Haul/Regrade Spoil to Collom Haul Road: 00+00 - 208+00	TRUCK1	1	138.53	\$611,624
405	Haul/Regrade Spoil to Collom Haul Road: 208+00 - 282+00	TRUCK1	1	138.01	\$679,583
406	Haul/Regrade Spoil to Collom Haul Road: 282+00 - 395+00	TRUCK1	1	89.87	\$488,240
407	Haul/Regrade Topsoil to Collom Haul Road: 112+26 - 149+00	TRUCK1	1	13.83	\$61,062
408	Haul/Regrade Topsoil to Collom Haul Road: 149+00 - 222+20	TRUCK1	1	27.15	\$133,708
409	Haul/Regrade Topsoil to Collom Haul Road: 222+20 - 242+00	TRUCK1	1	3.60	\$17,722
410	Haul/Regrade Topsoil to Collom Haul Road: 242+00 - 275+20	TRUCK1	1	8.51	\$37,576
411	Haul/Regrade Topsoil to Collom Haul Road: 275+20 - 298+10	TRUCK1	1	12.35	\$54,547
412	Haul/Regrade Topsoil to Collom Haul Road: 298+10 - 336+00	TRUCK1	1	13.11	\$57,876
413	Haul/Regrade Topsoil to Collom Haul Road: 336+00 - 396+89	TRUCK1	1	26.39	\$129,924
415	Regrade Collom Facility Area	DOZER	4	523.23	\$1,857,554

416	Load/Haul/Regrade Topsoil to Collom Facility	TRUCK1	1	96.36	\$661,741
417	Section 25 Pond Permoval	DOZER	1	13.40	\$11.602
417	Middle Bond Bomoval	DOZER	1	13.49	\$11,002
410	Section 26 Dend Demovel	DOZER	1	4.93	\$4,201
419	Section 26 Dond Demoval	DOZER	1	0.09	\$0,901
420	Sidehill Dond Demoval	DOZER	1	12.19	\$10,404
421	Cool Stockmile Dand Damoyal	DOZER	1	23.21	\$19,901
422	Tomporary Escilition Dond Pomoyol	DOZER	1	05.87	\$34,955
425	Wilson Storage Bond Bemoval	DOZER		4.75	\$4,007
424	Regrade Ditab D1	DOZER	1	13.80	\$15,592 \$1.492
425	Regrade Ditch D2	DOZER	1	1.72	\$1,405 \$2,680
420	Regrade Ditch D2	DOZER	1	3.13	\$2,089
427	Regrade Ditch D4	DOZER	1	1.78	\$1,551 \$1,004
428	Regrade Ditch D4	DOZER	1	1.27	\$1,094
429	Regrade Ditch D5	DOZER	1	3.14	\$2,097
431	Regrade Topsoil for Ditch D2	DOZER	1	0.30	\$202 \$1.205
432	Regrade Topsoil for Ditch D2	DOZER	1	1.40	\$1,205
433	Regrade Topsoil for Ditch D3	DOZER	1	0.22	\$189
434	Regrade Topson for Ditch D4	DOZER	1	0.10	\$155 ¢751
435	Regrade Topsoll for Ditch D5	DOZER		0.87	\$751
437	Regrade Topsoil for West Side Pond Access Road	DOZER	1	4.42	\$3,806
438	Regrade Topsoll for East Side Pond Access Road	DOZER		4.42	\$3,806
439	Regrade Topsoil for Topsoil Access Road	DOZER		29.81	\$25,643
440	Regrade Topson for Temporary North Access Road	DOZER	1	10.00	\$8,399
441	Regrade Topsoil for Temporary South Access Road	DOZER	1	10.00	\$8,599
442	Regrade Topsoil for Tie-In Road Access Road	DOZER	1	1.43	\$1,228
443	Reseed Collom Access Roads (Exh. 13C Table 13C-17)	REVEGE	1	16.00	\$22,216
444	Regrade Topsoil for Raw Water Line	DOZER	1	16.54	\$14,682
445	Reseed Collom Raw Water Line	REVEGE	1	18.00	\$24,709
446	Load, Haul and Regrade Collom Pit Topsoil–RN- 08 Permit Term	TRUCK1	1	462.40	\$2,940,109
447	Load, Haul and Regrade Collom Pit	TRUCK1	1	1,945.77	\$12,371,853
448	Reseed Collom Pit and Temporary Spoil Pile	REVEGE	1	495.00	\$672,188
450	Reseed Collom TS Pile Footprints 25B, 26A, 26B, 36A	REVEGE	1	40.50	\$55,302
453	Reseed Collom Facility Area	REVEGE	1	251.00	\$205,515
459	Collom-Weed control 10% of 1133.4 ac. 3X	REVEGE	1	120.00	\$35,550
460	Construct Collom Post-Mining Channels (TR154)	NA	1	1,895.00	\$396,521
461	Plug and Seal All Wells for Collom (MR203)	BOREHOLE	1	24.00	\$21,687
466	Plug and Seal 16 Geotechnical Boreholes	BOREHOLE	1	24.00	\$4,431
468	Reseed Geotechnical Hole Access Corridors	REVEGE	1	2.40	\$2,526
470	Plug and Seal 80 Collom In-Pit Drill Holes	BOREHOLE	1	949.00	\$196,919
	(MR216)				
471	Regrade Topsoil for Collom In-Pit Drill Pads	DOZER	1	4.73	\$4,273
472	Regrade Topsoil for Collom In-Pit Drill Roads	DOZER	1	2.08	\$1,882
473	Reseed Collom In-Pit Drill Pads and Roads	REVEGE	1	11.20	\$11,788
474	Regrade Topsoil for Collom Power Line	DOZER	1	11.58	\$10,473
475	Reseed 14.7 acres for Collom Power Line	REVEGE	1	7.30	\$30,942
476	Regrade Ditch CWD-1 (MR202)	DOZER	1	12.95	\$3,738
477	Regrade Topsoil for Ditch CWD-1 (MR202)	DOZER	1	5.50	\$4,733
478	Reseed Ditch CWD-1	REVEGE	1	4.30	\$2,921

479	Reseed Collom Area Fire Lines	REVEGE	1	2.50	\$3,397
480	Regrade Topsoil for Collom Haul Road Channels	DOZER	1	1.43	\$1,232
481	Reseed Collom Haul Road Channels	REVEGE	1	1.50	\$2,412
482	Regrade Collom Dragline Spoil	DOZER	2	181.73	\$312,609
483	Regrade Topsoil for New Collom Haul Road	DOZER	1	15.07	\$7,192
	Channels				
484	ReseedCollom Haul Road Channels w/Grazing	REVEGE	1	11.80	\$16,034
	Land Seed Mix				
485	Regrade Ditch GD-3	DOZER	1	1.34	\$431
486	Reseed 3.2 Acres of Disturbance	REVEGE	1	1.50	\$6,736
487	Load, Haul and Regrade Collom Pit Topsoil-	TRUCK1	1	37.42	\$237,940
	MR248				
488	Reseed Collom TS Pile Footprint 2A	REVEGE	1	9.10	\$12,365
489	Load, Haul and Regrade Collom Topsoil from 25A	TRUCK1	1	53.62	\$340,908
		SUBTO	TALS:	36641.86	\$113,768,371

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,298,121
Performance bond:	1.05	Total =	\$1,194,568
Job superintendent:	11,624.54	Total =	\$921,477
Profit:	10.00	Total =	\$11,376,837
		TOTAL O & P =	\$15,791,003
		CONTRACT AMOUNT (direct + O & P) = $($	\$129,559,374

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	2.00	Total =	\$2,591,187
Reclamation management and/or administration:	1.91		\$2,474,584
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$20,857,275
TOTAL BO	ND AN	IOUNT (direct + indirect) =	\$134,625,646

Page 1 of 3

SURFACE BLASTING WORK

Task description:Drill and Shoot South Taylor Highwall - Cast Blast (3000 ft)							
Site:	Colowyo Coal Mine	Permit Action:	MT9	Permit	/Job#:	C1981019	
]	PROJECT IDENTIF	ICATION					
	Task # 001	State: Colorado		Abbre	viation	None	
	Date: $3/11/2025$	County: Moffat		Fi	lename:	001	
	User: HR1						
	Agency or org	anization name: DRMS					
]	BLAST AREA DIMI	ENSIONS					
-				QUA	NTITY		UNIT
		Blast Area Configuration: Box-	-shaped mass (flat sa	afety benches, g	eneral pi	t blasting)	
	Bl	asting Method Description: Cast	blast (fragmentation	n + lateral move	ment)		
		Highwall or Ber	nch Face Angle:	1	.00		h:1v
		Regrade	ed Slope Angle:	C	0.00		h:1v
		Highwall or	Bench Length:	3.	,000		feet
		Highwall o	or Bench Width:]	150		feet
		Highwall or	r Bench Height:	10	00.0		feet
		Depth to Base of C	Cut at Highwall:	5	50.0		feet
]	BLAST AREA VOLU	J MES					
				OUAN	TITY		UNIT
		Total Volume of Dimensiona	l Mass to be Shot:	694,	444	cub	ic yards
	Bl	ast Volume to Subdrill Grade and B	last Pattern Lines:	679,	583	cub	ic yards
	Ι	Blast Volume to Finish Grade and B	last Pattern Lines:	603,	537	cub	ic yards
	R	emaining Volume Required to be R	Re-Shot or Ripped:	90,9	07	cub	ic yards
]	BLAST AREA DESI	GN					
-			QUANT	ITY		UNIT	
	R	ecommended Blasthole Diameter:	7.351	-	inches		
		Selected Blasthole Diameter:	9.875	5	inches		
		Subdrilling Allowance:	6.3		feet		
		Blasthole Depth:	56.3		feet		
		Density of Rock:	Average Density I	Rock (ANFO	rock de	nsity	
			Basis)			
	1	surden to Charge Diameter Ratio:	25		times di	ameter	<u> </u>
		Burden:	21.0		tient	under	
		Spacing to Burden Katio:	1.1		foot	uraen	
	C	ubic Vards of Rock per Blastholog	23.0	14	cubic w	ards	
	C	Powder Factor Description	Mediu	m	rock str	enoth	
		Powder Factor	0 575	5	pounds	/cu. vd	
		Density of Blasting Agent	0.85	-	grams/c		
	Oua	antity of Explosives per Blasthole:	579.1	1	POUNI	DS	
		Height of Powder Column:	20.52	2	feet		
	H	leight of Stemming per Blasthole:	35.78	3	feet		
		Stemming to Burden Ratio:	1.70		times b	urden	
_	Qu	antity of Stemming per Blasthole:	0.7043	8	cubic y	ards	
		Number of Rows:	5		rows		
		Number of Blastholes per Row:	130		holes pe	er row	
		Total Number of Blastholes:	650		holes		
		Total Length of all Blastholes:	36,59	5	feet		

BLASTING MATERIALS QUANTITIES

	QUANTITY	UNIT
Total Quantity of Stemming Required:	458.15	cubic yards
Total Quantity of Explosives Required:	376,420	pounds
Total Quantity of det. cord/fuse/wire Required:	56,815	linear feet
Quantity of Blasting Caps per Blasthole:	1	cap(s)
Total Quantity of Blasting Caps Required:	650	caps
Quantity of Primers per Blasthole:	1	primer(s)
Total Quantity of Primers Required:	650	primers
Quantity of Delays per Blasthole:	1	delay(s)
Total Quantity of Delays Required:	655	delays

HOURLY EQUIPMENT COST

Shift basis: <u>1 per day</u>

	Description
Drilling Equipment - Drill:	Atlas Capco DML/SP - 9-7/8"
-Drill Pad Preparation:	Cat D11T - 11U
Misc. Drill Support Equipment:	NA
Misc. Explosives Support Equipment:	NA
Explosives Delivery –Bulk Truck:	ANFO Bulk Delivery Truck
-Cap Truck:	Cap Delivery Truck

	Drilling	Drill Pad	Misc. Drill	Misc. Expl.	Explosives 1	Delivery
Cost Breakdown:	Equipment	Preparation	Support	Support	Bulk Truck	Cap Truck
	Drilling	Dozer			MiscTruck	MiscTruck
% Utilization-machine:	100	100	NA	NA	100	100
Ownership cost/hour:	\$408.05	\$334.55	NA	NA	\$156.81	\$5.06
Operating cost/hour:	\$299.61	\$260.65	NA	NA	\$197.09	\$30.58
% Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$78.71	\$38.59	NA	NA	\$27.68	\$27.68
Unit Subtotals:	\$786.37	\$633.79	\$0.00	\$0.00	\$381.58	\$63.32
Number of Units:	1	1	0	0	1	1
Group Subtotals:	\$786.37	\$633.79	\$0.00	\$0.00	\$381.58	\$63.32

Total work team cost/hour: \$1,865.06

MATERIALS COST

	Description	Unit	Unit Cost	Quantity	Total Cost
	Bulk ANFO nom. density (
Blasting Agent:	7,900-15,000 fps)	Pound	\$0.800	376420.236	\$301,136.19
	Cast primer, 1.0 lb (electric				
Primers or Boosters:	or non-electric system)	Each	\$14.810	650.000	\$9,626.50
	Electric cap, delay (electric				
Blasting Caps:	systems)	Each	\$13.079	650.000	\$8,501.35
Det. Cord, fuse, or	Detonating cord, 25 gr./ft.				
wire:	(non-electric systems)	Linear foot	\$0.660	56815.000	\$37,497.90
	MS connectors (non-				
Delays:	electric systems)	Each	\$8.860	655.000	\$5,803.30
	Stemming, 1.5 in. gravel				
	(inert blasthole packing-				
Miscellaneous:	imported)	Cu. yd.	\$32.670	458.150	\$14,967.76

Surface Blasting Work C	ont'd	Task# 001		Page 3 of 3		
Drill bits:	Bit life = 1,750	Linear feet	\$2,738.47	20.911	\$57,265.32	
			Total N	Materials Co	st: \$434,798.32	
DRILLING AND EX	PLOSIVES PREPAR	ATION TIME				
Т	otal Drilling Length:	36,595		linear feet		
Unac	justed Drilling Rate:	82.00		feet/hour		
	Drilling Time:			hours		
Job Condition Correc	ctions:					
	Site Altitude:	7.800		feet		
	Altitude Adjustment:	0.90		(DRMS es	t.)	
Jo	b Efficiency Factor:	0.67		(CH. Exc.	HB)	
Ad	justed Drilling Rate:	49.45		feet/hour		
Ex	plosives Prep. Time:	139.05		hours		
JOB TIME AND CO	<u>ST</u>					
		Total Job Tin	ne: 879.1	51	Hours	
Unit cost: \$2	.277 per cu. yd.	Total Job Co	st: \$1,547, 7	721		

Task description:	Load an	nd Haul Spoil to T	Г S-1			
Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION	[
Task #: 002 Date: $3/11/2$ User: HP1	2025	State: <u>Colora</u> County: <u>Moffa</u>	ıdo t	Ab	breviation: Filename:	None 002
A gency of	organization par	ne: DRMS				
Agency of	organization nai	ne. <u>DRM5</u>				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>	
r	Fruck Loader Tea] m -Truck: KO	Equipment Descri MATSU 830F	ption		
	Truck Loader Tea	-Loader: LET	TOURNEAU L23	50		
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U			
Road M	-Di aintenance –Mot	ump Area: Cat	<u>DIIT - IIU</u> Г 16М			
	-Wa	ter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown•	Truck/Lo	ader Team	Support	Fauinment	Mainte	enance Fauinment
<u>Cost Dicurdown</u>	Truck	Loader	Load Area	Dump Area	Motor Grad	ler Water Truck
%Utilization-machine:	100	100	100	100		25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.	.39 \$130.3
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.	.91 \$35.4
%Utilization-riper:	NA	0	NA	NA	N	NA N
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	.00 \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	.00 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.	.76 \$21.
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Number of Units:	4 W/asilar	¢2 288 72	l	¢1 720 22	Mai	1 nt: \$422.04
Group Subtotals:	WORK:	\$3,288.72	Support:	\$1,720.22	Mai	nt: \$423.94
Total work team co	st/hour: <u>\$5,432.</u>	88				
MATERIAL QU	ANTITIES					
Initial volume	: 3,662,979	CCY	Swell	factor: 1.000		
Loose volume	: 3,662,9	D79 LCY				
So	ource of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: <u>\$0.00</u>)			<u> </u>
		<u> </u>	,			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:		D 1 7			
Material v	veight: 2,550	Dry packed	Pounds/LCY			
Rated Pa	ayload: $492,20$	0	Pounds			
Payload Ca	pacity: <u>193.02</u>		LCY			

	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
T				174.00		
Final	I Truck Volume	e Based on Number	of Loader Passes:	174.90		
Loading Tool Capacity			Dual	tat Siza Classe N		
Rated Canacity:	53,000	I CY (heaped)) Buc	ket Size Class:	A	
Bucket Fill Factor	1 100	Other - rock/d	/ lirt mixtures (100	-120%) 1 100		_
Adjusted Capacity:	58.300	LCY		120/0) 1.100		_
Job Condition Corrections	<u>.</u>		Site Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Time	Numba	r of Loading Tool F	Dessas Dequired to	Fill Truck:	3	206605
Events 15 101	<u> </u>	1 OI LOAUING 1001 P	asses required to	E 111 I 1 UCK.	<u> </u>	105505
Excavators and Front Shove	els:					
Machine Cycle Time v Selected Value	vs. Job Condition within this Bas	on Rating: <u>NA</u> ic Rating: NA				
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Conditic within this Bas - Material Descu	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	vs. Job Condition within this Bas - Material Descript:	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA	vs. Job Condition within this Bas Material Description : Material Material	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: NA		 Dump: 0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u>	vs. Job Condition within this Bas Material Description: 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Condition within this Bas Material Descr : 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	ime (load, dump, r	Dump: 0.100) .725 min	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Bas Material Description: - Unadjusted Base - Unadjusted Base	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	ime (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.)) .725 min Source	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u>	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0.	Time (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030) .725 min Source (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi	Fime (load, dump, r .03 igh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000) .725 min Source (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: Truck Ownership:	vs. Job Condition within this Bas Material Description - Unadjusted Base Material 6" a Conveyor or Common ow	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an	Time (load, dump, r .03 igh and up 0.00 id loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040) .725 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u>	vs. Job Condition within this Bas Material Description: Unadjusted B Material 6" a Conveyor or Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04	Time (load, dump, r 03 igh and up 0.00 nd loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Bas Material Description - Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription:	Time (load, dump, r .03 igh and up 0.00 nd loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Loo	Time (load, dump, r .03 igh and up 0.00 nd loaders -0.04 ime Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675) .725 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription:	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ader Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u> Dump Target:	vs. Job Condition within this Bas Material Description - Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi rnership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Load Net Load	Time (load, dump, r .03 igh and up 0.00 id loaders -0.04 ime Adjustment: inder Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Load Net Load	Fime (load, dump, r .03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	vs. Job Condition within this Bas Material Description - Unadjusted Bas Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an rration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load	Fime (load, dump, r 03 igh and up 0.00 nd loaders -0.04 ime Adjustment: ader Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minutes (Cat HB) (Cat HB)	utes Minute
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	e: 0.80	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Loa Net Load Minutes Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	e: 0.80 e: 1.450 e: 1.20	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Load Net Load Minutes Minutes Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time Truck Load Time	vs. Job Condition within this Bas Material Description - Unadjusted Bas Material 6" a Conveyor or Common ow Constant ope Nominal targ e: 0.80 e: 1.450 e: 1.20	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes Minutes Minutes Minutes	Fime (load, dump, r 03 igh and up 0.00 nd loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 -0.040 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes — — — — — — — — — — — — —

	Haul Rout	te:							
	Seg #	Haul Di (Ft)	stance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	5876.00		0.00	2.00	2.00	3328	2.657	_
	Return Ro	oute:				Haul Time: _	2.657	minute	28
	Seg #	Haul Di (Ft)	stance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	5876.00		0.00	2.00	2.00	3503	1.971	
L	a din a Ta a	1			Total Tru	Return Time: ck Cycle Time:	1.971 8.108	minu minu	ites ites
Truck V	Produ Unit Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
			1,294.34	LCY/Hour		Adjusted for j	ob efficiency:	1,074.3	0 LCY/Hour
Optimal	l No. of Tr	ucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste Adjusted sing Adjusted multip	ed hourly truc le truck/loade le truck/loade	k team production er team production er team production	on: 4,297 on: 3,820 on: 3,820	7.22 L0 0.87 L0 0.87 L0	CY/Hour CY/Hour CY/Hour
	JOB TIN	ME AND	COST						
	Fleet s	size:	1	Team(s)	r	Fotal job time:	958.6	68	Hours
	Unit c	cost:	\$1.422	/LCY		Total job cost:	\$5,208,	378	

Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#:	C1981019
PROJECT IDEN	<u>TIFICATION</u>					
Task #: 003	0025	State: <u>Colorado</u>			breviation:	None
User: HR1	2023		L		riteliante.	003
Agency or	organization nan	ne' DRMS				
HOURLY EQUI	PMENT COST			Shift bas	sis: <u>1 per day</u>	
	Fruck Loader Tea	m Truck: KO	Equipment Descri	ption		
1		-Loader: LET	TOURNEAU L23	50		<u> </u>
Supp	ort Equipment -L	oad Area: Cat	D11T - 11U			
	-Du	Imp Area: Cat	D11T - 11U			
Road M	aintenance – Moto	or Grader: CA	<u>F 16M</u> For Tonkor, 14,000	Col		
	- w a	ter fluck. wat	er Taliker, 14,000	J Gal.		
Cost Breakdown:	Truck/Loa	der Team	Support l	Equipment	Mainter	nance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grade	r Water Truck
Utilization-machine:	100	100	100	100	2	25 2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	9 \$130.3
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	91 \$35.4
%Utilization-riper:	NA	0	NA	NA	N.	A N.
ipper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	90 \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	90 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.7	6 \$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.0	6 \$186.8
Number of Units:	3	1	1	1		1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Main	t: \$423.94
Total work team co	st/hour: \$4,924.()0				
MATERIAL QU	ANIIIES					
Initial volume	: <u>1,890,353</u>	$\frac{\text{CCY}}{53}$	Swell	factor: <u>1.000</u>		
Loose volume		<u>55</u> LC1				
So	urce of estimated	volume: <u>Map</u>	35A			
Source	Material Purcha	ase Cost: \$0.00)			
	То	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u>						
Truck Payload (wei	ght) Basis:		D			
Material v	veight: <u>2,550</u>	Dry nacked	Pounds/LCY			
Desci		Diy packet	~ .			
Rated Pa	yload: 492,200	0	Pounds			

	153.00 I	.CY				
Heaped volume:	192.00 I	.CY				
Average Volume:	172.50 L	.CY				
Adjusted Volume:	192.00 L	.CY				
Final	Truck Volume H	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Canacity						
Louding 1001 Cupucity			Buc	kat Siza Class: N	T A	
Poted Conscitu:	53 000	ICV (haamad)	Buc.	ket Size Class. N	A	_
Bucket Fill Factor	1 100	Other - rock/dirt	mixtures (100	120%) 1 100		-
Adjusted Capacity:	58.300	LCY	inixtures (100	-12070) 1.100		_
Job Condition Corrections:	-	Sit	e Altitude (ft.):	<u>7600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
	0.000	0.010				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	ses Required to	Fill Truck:	3	basses
Excavators and Front Shovel	s:	-				
Machine Cycle Time		Dating: NA				
Selected Value v	within this Basic	Rating: NA				
		0				
Track Loaders –	Material Descrip	otion:				
Track Loaders – Cycle Time Elements (min.):	Material Descrip	otion:				
Track Loaders – Cycle Time Elements (min.):	Material Descrip	otion:		 Dump: 0.100)	
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	Material Descrip Ma	otion:		Dump:0.100)	
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	Material Descrip Unadjusted Bas	otion:	ne (load, dump, 1	Dump: 0.100) 0.725 minu	utes
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	Material Descrip Unadjusted Bas	neuver: <u>NA</u>	ne (load, dump, r	Dump: 0.100 maneuver): 0) 0.725 minu Source	utes
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material</u> :	Material Descrip Unadjusted Bas Material 6" and	otion:NA	ne (load, dump, 1	Dump: 0.100 maneuver):0 Factor (min.) 0.030) 0.725 minu Source (Cat HB)	utes
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de	bion: neuver:NA bic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high	ne (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000) .725 minu Source (Cat HB) (Cat HB)	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or do Common owne	otion: aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and	ne (load, dump, 1 3 1 and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and ation -0.04	ne (load, dump, 1 3 1 and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 00 Factor (min.) 0.030 0.000 -0.040 -0.040) 5.725 minute Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00	ne (load, dump, 1 3 1 and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000) 5.725 minute Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim	ne (load, dump, 1 3 1 and up 0.00 loaders -0.04 e Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050) .725 minutes	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or d Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade	ne (load, dump, r and up 0.00 loaders -0.04 e Adjustment: er Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675) .725 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r n and up 0.00 loaders -0.04 e Adjustment: er Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or do Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r and up 0.00 loaders -0.04 e Adjustment: er Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	0.725 minutestimate Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutestimate minutestimate minutestimate	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Eychenge Time:	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r ne (load, dump, r n and up 0.00 loaders -0.04 e Adjustment: er Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	0.725 minu Source (Cat HB) (Cat H	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or do Common owned Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r and up 0.00 loaders -0.04 e Adjustment: er Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r ne (load, dump, r n and up 0.00 loaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time K Maneuver and Dump Time	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target 0.80 1.450 1.20	ption: aneuver:NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r and up 0.00 loaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude:	0.725 minutes 0.725 minutes 0.725 minutes 0.725 minutes 0.725 minutes 0.800 1.480 1.200 1.200	utes Minute: Minute: Minute:
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time & Maneuver and Dump Time	Material Descrip Ma Unadjusted Bas Material 6" and Conveyor or de Common owne Constant opera Nominal target	aneuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r ne (load, dump, r n and up 0.00 loaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 1.200	utes

	Haul Rout	e:							
	Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	1580.0	00	-9.00	2.00	-7.00	1411	1.320	_
						Haul Time:	1.320	minut	es
	Return Ro	ute:							
	Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	C	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	1580.0	00	9.00	2.00	11.00	1734	1.314	
					Total True	Return Time: ck Cycle Time:	<u>1.314</u> 6.114	min min	utes
Loa Truck U	ading Too Produ Jnit Produ	l unit ction ction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	27 LCY/Hour
		-	1,716.50	LCY/Hour		Adjusted for j	ob efficiency:	1,424.7	0 LCY/Hour
Optimal	No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly true	k team production	on: 4,274	4.09 L	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 3.820).87 L	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 3,82 ().87 L	CY/Hour
:	<u>JOB TIN</u>	1E AN	D COST						
	Fleet s	size:	1	Team(s)	ſ	Fotal job time:	494.7	/4	Hours
	Unit c	cost:	\$1.289	/LCY	r	Total job cost:	\$2,436,	121	

					De mar 14 / T = 1 - 11	C1001010
Site: <u>Colowyo Coal Mi</u>	ine	Permit Actio	on: <u>M19</u>	· ·	Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION					
Task #: 004		State: Colora	ido	Ab	breviation: N	Jone
Date: $3/11/20$	025 0	County: Moffat	t		Filename: 0	04
User: HR1	<u> </u>					
Agency or o	organization nan	ne: DRMS				
HOURLY EQUIE	PMENT COST			Shift bas	is: <u>1 per day</u>	
		I	Equipment Descri	ption		
Tı	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Suppo	ort Equipment -L	oad Area: Cat	<u>DURNEAU L23</u> D11T - 11U	50		
	-Du	Imp Area: Cat	D11T - 11U			
Road Ma	intenance – Moto	or Grader: CAT	<u>Γ 16M</u>			
	-Wa	ter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Loa	der Team	Support l	Equipment	Mainten	ance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	2:	5 24
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	9 \$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	1 \$35.44
%Utilization-riper:	NA	0	NA	NA	NA	A NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.70	5 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.00	5 \$186.88
Number of Units:	3	1	1	1		
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint	: \$423.94
Total work team cost	t/hour: <u>\$4,924.(</u>	00				
MATERIAL QUA	ANTITIES					
Initial volume:	1,034,696	CCY	Swell	factor: <u>1.000</u>		
Loose volume:	1,034,6	96 LCY				
Sou	rce of estimated	volume: Map	35A			
Source	of estimated swe	ll factor: Cat H	Iandbook			
	Material Purcha	ase Cost: <u>\$0.00</u> tal Cost: <u>\$0.00</u>)			
	10	μη ευστ	,			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	ht) Basis:					
Material w Description	eight: $2,550$ ption: Earth -	Drv packed	Pounds/LCY			
Rated Pay	vload: 492.200)	Pounds			
Tuteu I uj		-	1041145			

Heaped Volume:	155.00	LCY				
	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity						
<u>_</u>			Bucl	ket Size Class: N	А	
Rated Capacity:	53.000	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100	-120%) 1.100		_
Adjusted Capacity:	58.300	LCY		,		-
Job Condition Corrections:	•	Site	e Altitude (ft) [,] 7	7600 feet		
	- Truck	Logder	Source			
Altitudo Adie	1 000	0.080				
Ioh Efficiency:	0.830	0.980		<u>)</u>		
JOU LINCIENCY.	0.830	0.830	(CAT III))		
Net Correction:	0.830	0.813				
					2	
Loading Tool Cycle Time:	Number	r of Loading Tool Pass	ses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time y	s Job Conditio	n Rating· NA				
Selected Value	within this Basi	c Rating: NA				
Treat Loodoro	Motorial Decor	intion:				
TTack Loaders –	Material Descri	ipuon.				
Cycle Time Elements (min.):		-				
Cycle Time Elements (min.): Load: <u>NA</u>	M	laneuver: NA		Dump:0.100		
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	M	laneuver: NA	e (load dump r	Dump: 0.100	725 mini	ites
Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	: Unadjusted Ba	Ianeuver: <u>NA</u> sic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 naneuver): 0	725 minu	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	· Unadjusted Ba	Ianeuver: NA usic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)	725 minu Source	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stocknile:	• Unadjusted Ba Material 6" ar	Ianeuver: NA usic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft high	e (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	725 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Unadjusted Ba Material 6" ar Conveyor or o Common own	Ianeuver: <u>NA</u> nsic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	· Unadjusted Ba Material 6" an Conveyor or o Common own Constant oper	Ianeuver: <u>NA</u> nsic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" ar Conveyor or Common own Constant oper Nominal targ	Ianeuver: NA sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targo	Ianeuver: NA usic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba Material 6'' ar Conveyor or o Common owr Constant oper Nominal targe	Ianeuver: NA usic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba Material 6" au Conveyor or Common own Constant oper Nominal targe	Ianeuver: NA asic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tir	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Material 6" an Conveyor or Common own Constant open Nominal targe	Ianeuver: <u>NA</u> nsic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Unadjusted Ba Material 6" ar Conveyor or Common own Constant open Nominal targe	Ianeuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	Material 6" an Conveyor or Common own Constant oper Nominal targe	Ianeuver: <u>NA</u> nsic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480	ites Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	Material 6" an Conveyor or Common own Constant open Nominal target : 0.80 : 1.450 : 1.20	Ianeuver: <u>NA</u> asic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Mdjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes 0.800 1.480 1.200 1.200	Ites Minute Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time K Maneuver and Dump Time	Material 6" and Conveyor or Common own Constant oper Nominal target set of the set of th	Ianeuver: NA asic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.030 0.000 -0.040 0.000 -0.050 0.675 1.450	725minuSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.8001.4801.200	ntes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	Material 6" and Conveyor or of Common own Constant open Nominal targer Nominal targer : 0.80 : 1.450 : 1.20	Ianeuver: <u>NA</u> asic Loader Cycle Tim <u>nd over diameter 0.03</u> <u>dozer piled 10 ft. high</u> <u>nership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes</u>	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.030 0.000 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 atered	Minute Minute

Haul Rout	e:					T 1	
Seg #	Haul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)		(%)	(%)	(fpm)	(min)	
1	1430.00	-9.00	2.00	-7.00	1411	1.224	
				Haul Time:	1.224	minutes	
Return Ro	ute:			=			
Seg #	Haul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)		(%)	(%)	(fpm)	Time (min)	
1	1430.00	9.00	2.00	11.00	1734	1.228	
				Return Time:	1.228	minutes	
			Total Tru	ck Cycle Time:	5.932	minutes	
Looding Tool	mait			-			
Produ	ction 4,603.46	5 LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
Truck Unit Produc	ction			5 5			
	1,769.17	LCY/Hour		Adjusted for j	ob efficiency:	1,468.41	LCY/Hour
Optimal No. of Tru	1cks: 3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
		Adjuste	ed hourly truc	k team producti	on: 4,40	5.24 LCY/	Hour
		Adjusted sing	le truck/loade	er team production	on: 3,82	0.87 LCY/	Hour
		Adjusted multip	le truck/loade	er team production	on: 3,82	0.87 LCY/	Hour
JOB TIN	IE AND COST						
Fleet s	ize: 1	Team(s)	<u> </u>	Fotal job time:	270.8	80 Hou	ırs
Unit c	ost: \$1.289	/LCY		Total job cost:	\$1,333,	,425	

rusk desemption.		iu naui spon to	15-4			
Site: Colowyo Coal M	line	Permit Action	on: <u>MT9</u>		Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION					
Task #: 005		State: Colora	ado	Ab	breviation:	None
Date: 3/11/2	2025	County: Moffat			Filename:	005
User: <u>HR1</u>						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
	Truck Loader Tea	m - Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA'	<u>F 16M</u> tar Tankar 14 000	Cal		
	- ••• 2	itel Huck. wai	er Taliker, 14,000	/ Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Mainte	enance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grad	ler Water Truck
%Utilization-machine:	100	100	100	100		25 25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.	.39 \$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.	.91 \$35.44
%Utilization-riper:	NA	0	NA	NA	Ν	NA NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	.00 \$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	.00 \$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.	.76 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.	.06 \$186.88
Number of Units:	2	1	1	1		1 1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Mai	nt: \$423.94
Total work team co	st/hour: <u>\$4,415.</u>	12				
<u>MATERIAL QU</u>	ANIIIES					
Initial volume	: 1,527,757	CCY	Swell	factor: <u>1.000</u>		
Loose volume	,					
Source	urce of estimated	volume: <u>Map</u>	35A Jandhook			
Source	Material Purch	ase Cost: \$0.00)			
	То	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Canacity:						
Truck Payload (wei	ght) Basis:					
Material v	veight: <u>2,550</u>	<u> </u>	Pounds/LCY			
Desci Rated Pa	uption: Earth -	Dry packed	Pounds			
			1 1 1 1 1 1 1 1 1			

	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
				174.00		
Final	I Truck Volume	e Based on Number	of Loader Passes:	174.90	LCY	
Loading Tool Capacity			Dual	rat Siza Classe N	Δ	
Rated Canacity:	53 000	I CY (heaped)) Buci	ket Size Class: <u>N</u>	A	
Bucket Fill Factor	1 100	Other - rock/d	, lirt mixtures (100	-120%) 1 100		_
Adjusted Capacity:	58.300	LCY		12070) 1.100		_
Job Condition Corrections	<u>.</u>	2	Site Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	5)		
Job Efficiency:	0.830	0.830	(CAT HE	5)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Time	Numbo	r of Loading Tool D	Dassas Daguirad ta	Fill Truck	3	206605
Eventuaring 1001 Cycle Tille:		1 OF LOAUING 1001 P	asses required to		<u> </u>	105505
Excavators and Front Shove	els:					
Machine Cycle Time v Selected Value	vs. Job Condition within this Basi	on Rating: <u>NA</u> ic Rating: NA				
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Condition within this Basic Material Descri	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	vs. Job Condition within this Basic Material Description	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA	vs. Job Conditio within this Basi Material Descr :	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: NA		 Dump: 0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u>	vs. Job Conditio within this Basi Material Descr : 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Conditio within this Basi Material Descr : M - Unadjusted Ba	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	`ime (load, dump, r	Dump: 0.100) .725 minu	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Basi Material Description : - Unadjusted Basi Material Cite	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)) .725 minu Source	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material:	vs. Job Condition within this Basi Material Description : - Unadjusted Basi Material 6" a	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T und over diameter 0.	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030) .725 mint Source (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile:	vs. Job Condition within this Basi Material Description - Unadjusted Basi Material 6" a Conveyor or	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T asic Loader Cycle T <u>und over diameter 0.</u> dozer piled 10 ft. hi	`ime (load, dump, r 03 igh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000) .725 mint Source (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Conditio within this Basi Material Descri : - Unadjusted Ba Material 6" a Conveyor or Common ow	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T <u>and over diameter 0.</u> <u>dozer piled 10 ft. hi</u> nership of trucks an	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040) .725 mint Source (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basi Material Description - Unadjusted Basi Material 6" a Conveyor or Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T und over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04	ime (load, dump, r 03 igh and up 0.00 id loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi Material Description - Unadjusted Basi Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. <u>dozer piled 10 ft. hi</u> nership of trucks an eration -0.04 get 0.00 Net Cycle Ti	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi Material Description - Unadjusted Basi Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T und over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0 675) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi Material Description - Unadjusted Basi Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T asic Loader Cycle T <u>Ind over diameter 0.</u> dozer piled 10 ft. hi nership of trucks an ration -0.04 get 0.00 Net Cycle Ti Adjusted Load	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditio within this Basi Material Descri : - Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load	Time (load, dump, r .03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat H	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditio within this Basi Material Descri : - Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	vs. Job Condition within this Basis Material Description - Unadjusted Basis Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T und over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800	utes Minute
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation: Dump Target: Truck Cycle Time: Truck Exchange Time Truck Load Time	 vs. Job Condition within this Basily Material Description Material Description Unadjusted Basily Material 6" a Conveyor or Common ow Constant oper Nominal target e: 0.80 e: 1.450 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	 vs. Job Condition within this Basily Material Description Material Description Unadjusted Basily Material 6" and Conveyor or Common ow Constant oper Nominal target e: 0.80 e: 1.450 e: 1.20 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi nership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes <u></u> Minutes <u></u> Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.030 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450 for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time Truck Load Time	 vs. Job Condition within this Basily Material Description Material Description Unadjusted Basily Material 6" and Conveyor or Common ow Constant ope Nominal target e: 0.80 e: 1.450 e: 1.20 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T asic Loader Cycle T <u>Ind over diameter 0.</u> dozer piled 10 ft. hi nership of trucks an ration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes Minutes Minutes Minutes	Fime (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: - for site altitude: - for site altitude: - for site altitude: -) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes — — — — — — — — — — — — —

Hau	ul Route	e:							
Seg	g #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		1101	.00	-15.00	2.00	-13.00	757	1.836	
Ret	urn Rou	ite:				Haul Time:	1.836	minute	28
Seg	g #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
		(Ft)			(%)	(%)	(Ipm)	(min)	_
1		1101	.00	15.00	2.00	17.00	1225	-0.772	
					Total Tru	Return Time: ck Cycle Time:	-0.772 4.544	minu	ites ites
Loadii Truck Unit	ng Tool Produc t Produc	unit ction ction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
			2,309.63	LCY/Hour		Adjusted for j	ob efficiency:	1,916.9	9 LCY/Hour
Optimal No	o. of Tru	cks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truc	k team production	on: <u>3,833</u>	<u>3.98</u> LO	CY/Hour
				Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: $3,820$).87 L().87 L(CY/Hour CY/Hour
				rujustea marup		i team production			2 1/110ui
<u>JO</u>	BTIM	E Al	ND COST						
	Fleet si	ze:	1	Team(s)]	Fotal job time:	399.8	5	Hours
	Unit co	ost: _	\$1.156	/LCY	,	Total job cost:	\$1,765,	366	

Task description:	Load an	d Haul Spoil to	TS-5				
Site: Colowyo Coal M	line	Permit Acti	ion: MT9		Permit/Job#:	C1981019	
PROJECT IDEN	TIFICATION						
Task #: 006		State: Color	ado	Ab	breviation:	None	
Date:3/25/2025County:MoffatFilename:006							
User: HR1							
Agency or	organization nar	ne: DRMS					
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>		
		m Trucha VC	Equipment Descri	ption			
I	ruck Loader Tea	-Loader: LE	MAISU 830E TOURNEAU L23	50			
Supp	ort Equipment -L	Load Area: Cat	t D11T - 11U				
	-Dı	imp Area: Cat	t D11T - 11U				
Road M	aintenance – Mot -Wa	or Grader: CA	AT 16M ater Tanker - 14 000) Gal			
				, oui.			
Cost Breakdown:	Truck/Loa	ader Team	Support l	Equipment	Mainte	nance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grade	er Water Truck	
%Utilization-machine:	100	100	100	100	2	25 25	
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	\$130.32	
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	\$35.44	
%Utilization-riper:	NA	0	NA	NA	N	A NA	
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	00 \$0.00	
Ripper op. cost/hour:	• NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.00	
Uperator cost/nour:	\$23.24	\$30.85	\$38.39	\$38.39	\$27.7	6 \$21.12	
Number of Units:	\$508.88	\$1,255.20	\$800.11	\$800.11	\$257.0	1 \$180.88	
Group Subtotals:	Work:	\$2 270 96	Support:	\$1 720 22	Main	t: \$423.94	
	φ. 4.15	\$2,270.90	Support.	$\psi_{1,720.22}$	Ivian	φτ23.7τ	
Total work team cos	st/hour: <u>\$4,415.</u>	12					
MATERIAL QU	ANTITIES						
Initial volume	455 009	CCY	Z Swell	factor: 1,000			
Loose volume	455,00	09 LCY		<u>110000</u>			
So	urce of estimated	volume: Man	35A				
Source	of estimated swe	ell factor: Cat	Handbook				
	Material Purch	ase Cost: $\frac{$0.0}{100}$	0				
	10	otal Cost: <u>\$0.0</u>	0				
HOURLY PRO	DUCTION						
Truck Capacity:							
Truck Payload (wei	ght) Basis:						
Material v Descr	veight: 2,550	Dry packed	Pounds/LCY				
Rated Pa	yload: 492,20	0	Pounds				
Payload Ca	pacity: 193.02		LCY				
Heaped Volume:	153.00						
---	---	---	---	---	---	------------------------------------	
	192.00	LCY					
Average Volume:	172.50	LCY					
Adjusted Volume:	192.00	LCY					
Final	Truck Volume	Based on Number of	of Loader Passes.	174 90	ICY		
Loading Tool Canacity	Truck Volume	Dased on Number C	n Loader 1 asses.	1/4./0	LC1		
Louding 1001 Cupacity			Buc	ket Size Class: N	А		
Rated Capacity:	53.000	LCY (heaped)	Duch				
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	-120%) 1.100		-	
Adjusted Capacity:	58.300	LCY	X	,		-	
Job Condition Corrections:		S	ite Altitude (ft.):	7600 feet			
	- Truck	Loader	Source				
Altitude Adi:	1.000	0.980	(CAT HE	3)			
Job Efficiency:	0.830	0.830	(CAT HE	3)			
	0.020	0.012					
Net Correction:	0.830	0.813					
Loading Tool Cycle Time:	Numbe	r of Loading Tool Pa	asses Required to	Fill Truck:	3 r	basses	
Excavators and Front Shove	ls:	C	Ĩ		1		
Mailin Call Time	. Ish Caralitia						
Machine Cycle Time v	s. Job Conditio	n Kaung: NA					
Selected Value v	within this Basi	ic Rating: NA					
Selected Value v Track Loaders –	within this Basi Material Desci	ic Rating: NA					
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):	within this Basi Material Descr	ic Rating: NA					
Selected Value v Track Loaders – Cycle Time Elements (min.):	within this Basi	ic Rating: NA		0.100			
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basi Material Descr M	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100)		
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	vithin this Basi Material Descr Unadjusted Ba	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, r	Dump: 0.100	.725 mint	ıtes	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	vithin this Basi Material Descr Unadjusted Ba	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.)		ıtes	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	vithin this Basi Material Descr N Unadjusted Ba Material 6" a	ic Rating: <u>NA</u> iption: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti und over diameter 0.0	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.030		ites	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	vithin this Basi Material Descr 	ic Rating: <u>NA</u> ription: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti <u>and over diameter 0.0</u> dozer piled 10 ft. hig	me (load, dump, r)3 gh and up 0.00	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow	ic Rating: <u>NA</u> ription: <u>NA</u> Aaneuver: <u>NA</u> asic Loader Cycle Ti <u>and over diameter 0.0</u> <u>dozer piled 10 ft. hig</u> nership of trucks and	me (load, dump, r)3 gh and up 0.00 d loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope	ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and pration -0.04	me (load, dump, r)3 gh and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Munadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and paration -0.04 get 0.00	me (load, dump, 1)3 gh and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti und over diameter 0.0 dozer piled 10 ft. hig nership of trucks and pration -0.04 get 0.00 Net Cycle Tin	me (load, dump, r)3 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> ription: <u>NA</u> Anneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and pration -0.04 get 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r)3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr M Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r)3 gh and up 0.00 d loaders -0.04 me Adjustment: ler Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> ription: <u>NA</u> Aaneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader O.C dozer piled 10 ft. hig nership of trucks and paration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r)3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	Ites 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> ription: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	me (load, dump, r)3 gh and up 0.00 1 loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	utes Minute	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader 10 ft. hig nership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r)3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	utes Minute	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	vithin this Basi Material Descr Munadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iription: <u>NA</u> iription: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes	me (load, dump, r)3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Gime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450 for site altitude:	.725minuSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.8001.4801.200	utes 	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: & Maneuver and Dump Time:	vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iription: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes Minutes	me (load, dump, r)3 gh and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 1.200	utes 	

	ad Route.	Joul Distance	Grada $(0/)$	Poll Doc	Total Dag	Valoaity	Travel	
56	eg # r		Grade (%)	Koll. Kes		velocity	Time	
	(Ft)		(%)	(%)	(Ipm)	(min)	
1	9	10.00	-5.00	2.00	-3.00	3450	0.347	
					Haul Time:	0.347	minutes	
R	eturn Rout	e:						
Se	eg # H	Iaul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)		(%)	(%)	(fpm)	Time (min)	
1	9	10.00	5.00	2.00	7.00	2398	0.756	
					Return Time:	0.756	minutes	
				Total Tru	ck Cycle Time:	4.583	minutes	
T .	1. 1	•.			5			
Load	ling I ool u	nit	I CV/II.		A dimete d fem i	ah affi ai an ara	2 920 97	I CV/II.
Truck Un	Producti vit Producti	011 <u>4,005.40</u>			Adjusted for j	ob efficiency:	5,820.87	
	III FIOducu	2,289.97	LCY/Hour		Adjusted for j	ob efficiency:	1,900.68	LCY/Hour
Optimal N	lo. of Truc	ks: 2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	ed hourly true	k team productio	on: 3.80	1.35 LCY/	Hour
			Adjusted sing	le truck/loade	er team production	on: 3.80	1.35 LCY/	Hour
			Adjusted multip	le truck/loade	er team production	on: $3,80$	1.35 LCY/	Hour
			5 1		1	/		
J	OB TIMI	E AND COST						
_	Fleet siz	e: <u>1</u>	Team(s)	- -	Fotal job time:	119.7	70 Hot	ırs

Task description:	Load an	nd Haul Spoil to 7	ГЅ-6			
Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	TIFICATION	r				
		<u> </u>				
Task #: 007	0025	State: <u>Colora</u>	ado	Ab	breviation: No	ne
User: HR1	2023		ı			
	organization par	ne: DPMS				
Agency of	organization nar					
HOURLY EQUI	PMENT COST	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
	Truck Loader Tea	m - Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	<u>T 16M</u>			
	- VV 2	uer Truck: wai	ter Taliker, 14,000) Gal.		
Cost Breakdown:	Truck/Los	ader Team	Support 1	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	25	25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Maint:	\$423.94
Total work team co	st/hour: <u>\$4,415.</u>	12				
<u>MATERIAL QU</u>	<u>ANTITIES</u>					
Initial volume	: 1,063,103	CCY	Swell	factor: <u>1.000</u>		
Loose volume	: 1,063,1	103 LCY				
So	urce of estimated	volume: <u>Map</u>	35A			
Source	of estimated swe	ell factor: Cat F	landbook			
	To	otal Cost: $\frac{0.00}{90.00}$)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	<u>ght) Basis:</u>					
Material v	veight: 2,550	Dry packed	Pounds/LCY			
Rated Pa	vload: 492.20	0	Pounds			
Devload Ca	$\frac{193,02}{193,02}$		I CV			

le: 1.450	Minutes	Adjusted	for site altitude:	1.200	Minute Minute
le: 1.450	Minutes	Aujusicu		1.400	Minute
	Minutas	Adjusted	for site altitude:	1 / 80	_
le: 0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
					/
		_			
	Net Load T	ime per Truck:	1.450	minutes	
	Adjusted Load	er Cycle Time:	0.675	minutes	
i tolling unge	Net Cycle Tin	ne Adjustment:	-0.050	minutes	_
Nominal targe	et 0.00		0.000	(Cat HB)	_
Constant oper	ation -0.04	10auers -0.04	-0.040	(Cat HB)	_
Conveyor or d	over piled 10 ft. hig	n and up 0.00	0.000	(Cat HB)	_
Material 6" an	d over diameter 0.0.	$\frac{5}{100000000000000000000000000000000000$	0.030	(Cat HB)	_
	1	2	Factor (min.)	Source	_
- Unadjusted Bas	sic Loader Cycle Tir	ne (load, dump, n	naneuver): 0.	725 minu	ites
Ma	aneuver: NA		Dump: 0.100		
			D		
):					
- Material Descri	ption:				
within this Basic	Rating: <u>NA</u>				
vs. Job Condition	Rating: NA				
els:					
: Number	of Loading Tool Pa	sses Required to l	Fill Truck:	<u> </u>	asses
0.830	0.813				
0.830	0.830	(CAT HB	5)		
1.000	0.980	(CAT HB	5)		
Truck	Loader	Source			
<u>s:</u>	Si	te Altitude (ft.): <u>7</u>	7 <u>600</u> feet		
58.300					
1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		-
53.000	LCY (heaped)				_
		Buck	ket Size Class: N	A	
al Truck Volume	Based on Number of	f Loader Passes:	174.90	LCY	
192.00 I	LCY				
$\frac{192.00}{172.50}$ I					
133.00 1 192.00 1					
153.00 I	LCY				
	153.00 1 192.00 1 172.50 1 192.00 1 192.00 1 11 Truck Volume 1 53.000 1.100 58.300 1 S: Truck 1.000 0.830 0.830 0.830 i Number els: vs. Job Condition within this Basic Material Descri): M - Unadjusted Basic Material 6" ar Conveyor or constant oper Nominal targe	153.00 LCY192.00LCY172.50LCY192.00LCYd Truck Volume Based on Number of 53.000 LCY (heaped)1.100Other - rock/dir 58.300 LCYS:SiTruckLoader1.0000.9800.8300.813 \cdot Number of Loading Tool Paels:vs. Job Condition Rating:vs. Job Condition Rating:NA- Material Description:	153.00 LCY 192.00 LCY 172.50 LCY 192.00 LCY il Truck Volume Based on Number of Loader Passes: Bucl 53.000 LCY (heaped) 1.100 Other - rock/dirt mixtures (100 58.300 LCY Site Altitude (ft.): 7 Truck Loader 1.000 0.980 (CAT HB 0.830 0.813 : Number of Loading Tool Passes Required to 1 els: vs. Job Condition Rating: NA - Material Description:	153.00 LCY 192.00 LCY 172.50 LCY 192.00 LCY al Truck Volume Based on Number of Loader Passes: 174.90 Bucket Size Class: N 53.000 LCY (heaped) 1.100 Other - rock/dirt mixtures (100-120%) 1.100 58.300 LCY s: Site Altitude (ft.): 7600 feet Truck Loader Source 1.000 0.980 (CAT HB) 0.830 0.813 0.830 s: Number of Loading Tool Passes Required to Fill Truck:	153.00 LCY 172.50 LCY 192.00 LCY d Truck Volume Based on Number of Loader Passes: 174.90 LCY Bucket Size Class: NA 53.000 LCY (heaped) 1.100 Other - rock/dirt mixtures (100-120%) 1.100 58.300 LCY S: Site Altitude (ft.): 7600 feet Truck Loader Source 1.000 0.980 (CAT HB) 0.830 0.813

Ha	ul Route	:							
Seg	g #	Haul D (Ft)	istance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		1172.0	0	-9.00	2.00	-7.00	1411	1.033	
Ret	turn Rou	te:				Haul Time: _	1.033	minutes	
Seg	g #	Haul D (Ft)	istance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		1172.0	0	9.00	2.00	11.00	1734	1.079	
T I					Total Tru	Return Time: ck Cycle Time:	<u>1.079</u> 5.592	minute	es es
Loadi Truck Uni	ng 1001 Produc t Produc	unit tion tion	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		_	1,876.75	LCY/Hour		Adjusted for j	ob efficiency:	1,557.70	LCY/Hour
Optimal No	o. of True	cks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly true	k team production	on: <u>3,115</u>	5.40 LC	Y/Hour
				Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: <u>3,115</u> on: <u>3,115</u>	5.40 LC 5.40 LC	Y/Hour Y/Hour
<u>JO</u>	B TIM	E ANI	D COST						
	Fleet siz	ze:	1	Team(s)]	Fotal job time:	341.2	24 Н	ours
	Unit co	ost:	\$1.417	/LCY	,	Total job cost:	\$1,506,	622	

Task description:	Load an	d Haul Spoil to T	<u>FS-7</u>			
Site: Colowyo Coal M	line	Permit Actio	on: <u>MT9</u>		Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION					
Task #: 008		State: Colora	ado	Ab	breviation:	None
Date: 3/11/2	2025	County: Moffa	t		Filename:	008
User: <u>HR1</u>						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
<u> </u>	Fruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	oad Area: Cat	$\frac{100RNEAU L23}{D11T - 11U}$	50		
	-Dı	imp Area: Cat	D11T - 11U			
Road M	aintenance – Mote	or Grader: CA	<u>Γ 16M</u>			
	-Wa	ter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support l	Equipment	Mainter	nance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grade	er Water Truck
Utilization-machine:	100	100	100	100	2	25 2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	³⁹ \$130.3
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	91 \$35.4
%Utilization-riper:	NA	0	NA	NA	N	A NA
ipper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	00 \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	00 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.7	76 \$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.0	6 \$186.8
Number of Units:	3	1	1	1		1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Main	it: \$423.94
Total work team co	st/hour: <u>\$4,924.0</u>	00				
MATERIAL OI	ANTITIES					
	<u>AITITIE5</u>	CON	C 11	6 / 1 000		
Initial volume	: <u>2,558,894</u> · 2,558,8		Swell	factor: 1.000		
			25.4			
S0 Source	of estimated swe	ll factor: Cat H	35A Jandbook			
	Material Purcha	ase Cost: \$0.00)			
	Тс	otal Cost: \$0.00)			
	DUCTION					
HUUKLY PRO	DUCTION					
Truck Capacity:	abt) Dooin					
<u>Truck Payload (wet</u> Material y	$\frac{g_{\text{III}} - Dasis}{\text{veight}} = 2.550$		Pounds/LCY			
Desci	ription: Earth -	Dry packed				
Rated Pa	ayload: 492,20	0	Pounds			
Payload Ca	pacity: <u>193.02</u>		LCY			

Heaped Volume:	153.00	LCY				
	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity						
<u>_</u>			Bucl	ket Size Class: N	A	
Rated Capacity:	53.000	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY		,		-
Job Condition Corrections:		Site	e Altitude (ft) [,] 7	7600 feet		
	- Truck	Loader	Source			
Altitudo Adie	1 000	0.080				
Ioh Efficiency:	0.830	0.980		2)		
JOU LINCIENCY.	0.830	0.830	(CAT III))		
Net Correction:	0.830	0.813				
					2	
Loading Tool Cycle Time:	Number	of Loading Tool Pass	ses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	n Rating· NA				
Selected Value	within this Basic	c Rating: NA				
Treat Loodoro	Motorial Decer	intion.				
TTack Loaders -	Material Descri	ipuon.				
Cycle Time Elements (min.):						
Cycle Time Elements (min.): Load: <u>NA</u>	M	laneuver: NA		Dump:0.100)	
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	M	laneuver: NA	e (load dump r	Dump: 0.100)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	Unadjusted Ba	laneuver: <u>NA</u> sic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 naneuver): 0	. <u>725</u> mint	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	M Unadjusted Ba	laneuver: <u>NA</u> sic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	M Unadjusted Ba Material 6'' ar	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft bigh	e (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	M Unadjusted Ba Material 6'' an Conveyor or o Common owr	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material 6" an Conveyor or o Common owr Constant oper	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1 ration -0.04	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high tership of trucks and 1 ration -0.04 et 0.00	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	M Unadjusted Ba Material 6'' an Conveyor or o Common owr Constant oper Nominal targe	Ianeuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" an Conveyor or o Common owr Constant oper Nominal targe	Ianeuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targe	laneuver: NA sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high tership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Material 6" an Conveyor or o Common own Constant open Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high nership of trucks and I ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim <u>nd over diameter 0.03</u> dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800 1.480	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	M Unadjusted Ba Material 6" an Conveyor or o Common owr Constant oper Nominal targe Nominal targe : 0.80 : 1.450	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and I ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Madjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 -0.040 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480 1.200	Ites Minute Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time K Maneuver and Dump Time	Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim <u>nd over diameter 0.03</u> dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	ntes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	M Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targe : 0.80 : 1.450 : 1.20	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and I ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	Ites Minute Minute Minute

Haul Ro	ute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	5853.	.00	-1.00	2.00	1.00	3503	2.262	
Return R	Route:				Haul Time:	2.262	minute	2S
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1172.	.00	9.00	2.00	11.00	1734	1.079	
Londing To	olunit			Total Tru	Return Time: ck Cycle Time:	1.079 6.821	minu minu	ites
Proc Truck Unit Proc	luction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	7 LCY/Hour
		1,538.58	LCY/Hour		Adjusted for j	ob efficiency:	1,277.02	2 LCY/Hour
Optimal No. of T	Frucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly true	k team production	on: 3,831	1.05 LC	CY/Hour
			Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: <u>3,820</u> on: 3,820	0.87 LC 0.87 LC	CY/Hour CY/Hour
JOB TI	IME AN	ND COST						
Flee	t size:	1	Team(s)]	Fotal job time:	669.7	2 1	Hours
Unit	t cost:	\$1.289	/LCY	,	Total job cost:	\$3,297,	678	

Task description:	Load an	d Haul Spoil to Z	ГS-8			
Site: Colowyo Coal M	ine	Permit Actio	on: MT9		Permit/Job#:	21981019
PROJECT IDEN	TIFICATION					
Task #: 009		- State: Colora	ado	Ab	breviation: N	one
Date: $3/11/2$	2025	County: Moffa	t		Filename: 00)9
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LEI	<u>OURNEAU L23</u> D11T - 11U	50		
Supp	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	Г 16М	~ ~ .		
	-Wa	tter Truck: Wat	er Tanker, 14,000	Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintena	nce Equipment
Cost Dicundo Mil	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization_machine:	100	100	100	100	25	2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.3
Operating cost/hour:	\$209.47	\$581.06	\$324.90	\$324.90	\$29.91	\$35.4
%Utilization-riper:	+27 MA	0	0.000 NA	\$32 NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.8
Number of Units:	3	1	1	1	1	
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint:	\$423.94
Total work team cos MATERIAL QU	st/hour: <u>\$4,924.</u> ANTITIES	00				
Initial volume:	4,628,603	CCY	Swell	factor: 1.000		
Loose volume:	4,628,6	603 LCY				
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: <u>\$0.00</u>)			
	10	50.00 Juli Cost. <u>50.00</u>)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:					
Material w	veight: 2,550	Dry nacked	Pounds/LCY			
Rated Pa	yload: 492.20	0	Pounds			
	- /					

	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
T				174.00		
Final	I Truck Volume	e Based on Number	of Loader Passes:	174.90		
Loading Tool Capacity			Dual	tat Siza Classe N		
Rated Canacity:	53,000	I CY (heaped)) Buc	ket Size Class:	A	
Bucket Fill Factor	1 100	Other - rock/d	/ lirt mixtures (100	-120%) 1 100		_
Adjusted Capacity:	58.300	LCY		120/0) 1.100		_
Job Condition Corrections	<u>.</u>		Site Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Time	Numba	r of Loading Tool F	Dassas Daguirad to	Fill Truck:	3	206605
Events 15 101	<u> </u>	1 OI LOAUING 1001 P	asses required to	E 111 I 1 UCK.	<u> </u>	105505
Excavators and Front Shove	els:					
Machine Cycle Time v Selected Value	vs. Job Condition within this Bas	on Rating: <u>NA</u> ic Rating: NA				
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Conditic within this Bas - Material Descu	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	vs. Job Condition within this Bas - Material Descript:	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA	vs. Job Condition within this Bas Material Description : Material Material	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: NA		 Dump: 0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u>	vs. Job Condition within this Bas Material Description: 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Condition within this Bas Material Descr : 	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	ime (load, dump, r	Dump: 0.100) .725 min	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Bas Material Description: - Unadjusted Base - Unadjusted Base	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T	ime (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.)) .725 min Source	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u>	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0.	Time (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030) .725 min Source (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi	Fime (load, dump, r .03 igh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000) .725 min Source (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: Truck Ownership:	vs. Job Condition within this Bas Material Description - Unadjusted Base Material 6" a Conveyor or Common ow	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an	Time (load, dump, r .03 igh and up 0.00 id loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040) .725 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u>	vs. Job Condition within this Bas Material Description: Unadjusted B Material 6" a Conveyor or Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04	Time (load, dump, r 03 igh and up 0.00 nd loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Bas Material Description - Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription:	Time (load, dump, r .03 igh and up 0.00 nd loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription:	Time (load, dump, r .03 igh and up 0.00 nd loaders -0.04 ime Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675) .725 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription:	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ader Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u> Dump Target:	vs. Job Condition within this Bas Material Description Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi rnership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Load Net Load	Time (load, dump, r .03 igh and up 0.00 id loaders -0.04 ime Adjustment: inder Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	vs. Job Condition within this Bas Material Description: Unadjusted Base Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription:	Fime (load, dump, r .03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	vs. Job Condition within this Bas Material Description - Unadjusted Bas Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an rration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load	Fime (load, dump, r 03 igh and up 0.00 nd loaders -0.04 ime Adjustment: ader Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minutes (Cat HB) (Cat HB)	utes Minute
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	e: 0.80	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Loa Net Load Minutes Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	e: 0.80 e: 1.450 e: 1.20	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Load Net Load Minutes Minutes Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 -0.040 for site altitude: -0.050 for site altitude: -0.050 for site altitude: -0.050) .725 minutes (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	vs. Job Condition within this Bas Material Description - Unadjusted Bas Material 6" a Conveyor or Common ow Constant ope Nominal targ e: 0.80 e: 1.450 e: 1.20	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T asic Loader Cycle T and over diameter 0. dozer piled 10 ft. hi mership of trucks an eration -0.04 get 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes Minutes Minutes Minutes	Fime (load, dump, r 03 igh and up 0.00 nd loaders -0.04 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 -0.040 -0.050 0.675 1.450) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes — — — — — — — — — — — — —

Haul R	oute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	5509	.00	-1.00	2.00	1.00	3503	2.164	
Return	Route:				Haul Time:	2.164	minut	es
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	5509.	.00	1.00	2.00	3.00	3503	1.950	
Loodina T	· • 1 · · · · · · · · ·			Total Tru	Return Time: ck Cycle Time:	1.950 7.594	min min	utes utes
Pro Truck Unit Pro	oduction oduction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	37 LCY/Hour
		1,381.95	LCY/Hour		Adjusted for j	ob efficiency:	1,147.0	12 LCY/Hour
Optimal No. of	Trucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: <u>3,441</u>	1.07 L	CY/Hour
			Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: 3,441 on: 3,441	1.07 L 1.07 L	CY/Hour CY/Hour
<u>JOB 1</u>	TIME AN	ND COST						
Fle	et size:	1	Team(s)	r	Fotal job time:	1,345.	11	Hours
Un	it cost: _	\$1.431	/LCY		Total job cost:	\$6,623,	306	

Task description:	Load an	d Haul Spoil to T	FS-9			21001010
Site: <u>Colowyo Coal M</u>	line	Permit Actio	on: <u>MT9</u>	· .	Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION					
Task #: 010	2025	State: Colora	ndo	Ab	breviation: <u>N</u>	lone
User: $HR1$	2025	County: <u>Moffa</u>	t		Filename: 0	10
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	Г		Shift bas	is: 1 per day	
		-	Equipment Descri	ption	_ _	
Г	Fruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	-Loader: LEI	D11T - 11U	50		
	-Du	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot -Wa	or Grader: CA'	<u>I 16M</u> er Tanker, 14.000) Gal.		
<u>Cost Breakdown</u> :	Truck/Loa	ader Team	Support I	Equipment	Maintena Motor Grader	ance Equipment
	TTUCK	Loader	Load Area		WIOTOT GTAGET	
% Utilization-machine:	100 \$200.47	100	100	100	£170.20	$\frac{120}{2}$
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.3
%Utilization-riper	\$274.17 NA	0	\$324.90 NA	\$324.90 NA	\$29.91 NA	
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00) \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	5 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	5 \$186.8
Number of Units:	4	1	1	1	1	-
Group Subtotals:	Work:	\$3,288.72	Support:	\$1,720.22	Maint	\$423.94
Total work team cos	st/hour: <u>\$5,432.</u>	88				
MATERIAL QU	ANTITIES					
Initial volume	: 4.408.828	CCY	Swell	factor: 1.000		
Loose volume	: 4,408,8	328 LCY				
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: <u>\$0.00</u> ptal Cost: <u>\$0.00</u>)			
	1	<u> </u>	,			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:		Pounda/I CV			
Descr	iption: <u>2,550</u>	Dry packed	I Junus/LC I			
Rated Pa	ayload: 492,20	0	Pounds			
Payload Ca	pacity: <u>193.02</u>		LCY			

Heaped Volume:	153.00	LCY				
	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity						
<u>_</u>			Bucl	ket Size Class: N	A	
Rated Capacity:	53.000	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY		,		-
Job Condition Corrections:		Site	e Altitude (ft) [,] 7	7600 feet		
	- Truck	Loader	Source			
Altitudo Adie	1 000	0.080				
Ioh Efficiency:	0.830	0.980		2)		
JOU LINCIENCY.	0.830	0.830	(CAT III))		
Net Correction:	0.830	0.813				
					2	
Loading Tool Cycle Time:	Number	of Loading Tool Pass	ses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	n Rating· NA				
Selected Value	within this Basic	c Rating: NA				
Treat Loodoro	Motorial Decer	intion.				
TTack Loaders -	Material Descri	ipuon.				
Cycle Time Elements (min.):						
Cycle Time Elements (min.): Load: <u>NA</u>	M	laneuver: NA		Dump:0.100)	
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	M	laneuver: NA	e (load dump r	Dump: 0.100)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	Unadjusted Ba	laneuver: <u>NA</u> sic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 naneuver): 0	. <u>725</u> mint	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	M Unadjusted Ba	laneuver: <u>NA</u> sic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	M Unadjusted Ba Material 6'' ar	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft bigh	e (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	M Unadjusted Ba Material 6'' an Conveyor or o Common owr	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material 6" an Conveyor or o Common owr Constant oper	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1 ration -0.04	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high tership of trucks and 1 ration -0.04 et 0.00	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	M Unadjusted Ba Material 6'' ar Conveyor or o Common owr Constant oper Nominal targe	Ianeuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" an Conveyor or o Common owr Constant oper Nominal targe	Ianeuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: NA sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targe	laneuver: NA sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high tership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Material 6" an Conveyor or o Common own Constant open Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and I ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim <u>nd over diameter 0.03</u> dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800 1.480	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	M Unadjusted Ba Material 6" an Conveyor or o Common owr Constant oper Nominal targe Nominal targe : 0.80 : 1.450	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and I ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Madjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 -0.040 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480 1.200	Ites Minute Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time K Maneuver and Dump Time	Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	laneuver: <u>NA</u> sic Loader Cycle Tim <u>nd over diameter 0.03</u> dozer piled 10 ft. high pership of trucks and 1 ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	ntes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	M Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targe : 0.80 : 1.450 : 1.20	laneuver: <u>NA</u> sic Loader Cycle Tim nd over diameter 0.03 dozer piled 10 ft. high hership of trucks and I ration -0.04 et 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	Ites Minute Minute Minute

Sog #	Houl Di	stanco	Grada (%)	Poll Dos	Total Das	Valocity	Travel	
Seg #	(Et)	stance	Grade (%)	(0/)	(0%)	(fpm)	Time	
	(Гl)			(%)	(%)	(ipiii)	(min)	
1	6658.00		0.00	2.00	2.00	3328	2.892	
					Haul Time:	2.892	minutes	
Return R	Route:		I					
Seg #	Haul Di	stance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	6658.00		0.00	2.00	2.00	3503	2.194	
					Return Time:	2.194	minute	es
				Total Tru	ck Cycle Time:	8.566	minute	es
Loading To	alunit							
Loading To Prod	ol unit	4 603 46	LCY/Hour		Adjusted for i	ob efficiency:	3 820 87	LCY/Hour
Loading To Prod Fruck Unit Prod	ol unit luction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
Loading To Prod Fruck Unit Prod	ool unit luction luction	4,603.46	LCY/Hour LCY/Hour		Adjusted for j Adjusted for j	ob efficiency: ob efficiency:	3,820.87	LCY/Hour
Loading To Prod Fruck Unit Prod Pptimal No. of T	ool unit luction luction Frucks:	4,603.46 1,225.13 4	LCY/Hour LCY/Hour Truck(s)		Adjusted for j Adjusted for j Selected Numl	ob efficiency: ob efficiency: ber of Trucks:	<u>3,820.87</u> <u>1,016.86</u> <u>4</u>	LCY/Hour LCY/Hour Truck(s)
Loading To Prod Fruck Unit Prod Pptimal No. of T	ool unit luction luction Frucks:	4,603.46 1,225.13 4	LCY/Hour LCY/Hour Truck(s) Adjuste	d hourly true	Adjusted for j Adjusted for j Selected Numl k team productio	ob efficiency: ob efficiency: ber of Trucks: on: 4,067	<u>3,820.87</u> <u>1,016.86</u> <u>4</u> 7.45 LCY	LCY/Hour LCY/Hour Truck(s) {/Hour
Loading To Prod Fruck Unit Prod Pptimal No. of T	ool unit luction luction Frucks:	4,603.46 1,225.13 4	LCY/Hour LCY/Hour Truck(s) Adjusted sing	d hourly truc le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: 4,067 on: 3,820	<u>3,820.87</u> <u>1,016.86</u> <u>4</u> 7.45 LCY 0.87 LCY	LCY/Hour LCY/Hour Truck(s) {/Hour {/Hour
Loading To Prod Fruck Unit Prod Pptimal No. of T	ool unit luction luction frucks:	4,603.46 1,225.13 4	LCY/Hour LCY/Hour Truck(s) Adjusted Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: $4,067$ on: $3,820$ on: $3,820$	<u>3,820.87</u> <u>1,016.86</u> <u>4</u> <u>7.45</u> <u>LCY</u> <u>0.87</u> LCY	LCY/Hour LCY/Hour Truck(s) {/Hour {/Hour {/Hour
Loading To Prod Fruck Unit Prod Pptimal No. of T	ool unit luction luction Frucks:	4,603.46 1,225.13 4	<pre> LCY/Hour LCY/Hour Truck(s) Adjusted Adjusted sing Adjusted multip</pre>	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: <u>4,067</u> on: <u>3,820</u> on: 3,820	<u>3,820.87</u> <u>1,016.86</u> <u>4</u> 7.45 LCY 0.87 LCY 0.87 LCY	LCY/Hour LCY/Hour Truck(s) //Hour //Hour //Hour
Loading To Prod Fruck Unit Prod Pptimal No. of T JOB TI	ool unit luction luction Trucks: [ME AND]	4,603.46 1,225.13 4 D COST	LCY/Hour LCY/Hour Truck(s) Adjusted Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: <u>4,067</u> on: <u>3,820</u> on: <u>3,820</u>	<u>3,820.87</u> <u>1,016.86</u> <u>4</u> 7.45 LCY 0.87 LCY 0.87 LCY	LCY/Hour LCY/Hour Truck(s) {/Hour {/Hour {/Hour
Loading To Prod Fruck Unit Prod Pptimal No. of T Doff Doff Doff Doff Doff Doff Theet	ool unit luction luction Trucks: I <u>ME AND</u> t size:	4,603.46 1,225.13 4 <u>O COST</u> 1	LCY/Hour LCY/Hour Truck(s) Adjusted sing Adjusted multip Team(s)	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: <u>4,067</u> on: <u>3,820</u> on: <u>3,820</u>	<u>3,820.87</u> <u>1,016.86</u> <u>4</u> 7.45 LCY 0.87 LCY 0.87 LCY 88 He	LCY/Hour LCY/Hour Truck(s) (/Hour (/Hour (/Hour

Task description:	Load an	d Haul Spoil to T	ГS-10			
Site: Colowyo Coal Mi	ne	Permit Actio	on: MT9		Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	FIFICATION					
Task #: 011		State: Colora	ido	Ab	breviation: No	ne
Date: $3/11/20$	025	County: Moffa	t	110	Filename: 011	l
User: HR1						
Agency or o	organization nan	ne: DRMS				
HOURLY EQUIP	PMENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
		I	Equipment Descri	ption		
Tı	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Suppo	rt Equipment -L	oad Area: Cat	<u>DURNEAU L23</u>	50		
	-Dı	Imp Area: Cat	D11T - 11U			
Road Ma	intenance – Moto	or Grader: CA	<u>Г 16М</u>			
	-Wa	ter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Loa	der Team	Support I	Equipment	Maintenar	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine	100	100	100	100	25	24
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	4	1	1	1	1	1
Group Subtotals:	Work:	\$3,288.72	Support:	\$1,720.22	Maint:	\$423.94
Total work team cost	/hour: <u>\$5,432.8</u>	38				
MATERIAL QUA	ANTITIES					
Initial volume:	4,516,062	CCY	Swell	factor: 1.000		
Loose volume:	4,516,0	62 LCY				
Sou	rce of estimated	volume: Map	35A			
Source	of estimated swe	ll factor: Cat H	Iandbook			
	Material Purcha	ase Cost: $\frac{$0.00}{$0.00}$)			
	10	1. 100 - 100	1			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	ht) Basis:		Dounda/I CV			
Descri	ption: <u>2,330</u>	Dry packed	Founds/LCY			
Rated Pay	/load: $492,20$	0	Pounds			
Payload Cap	acity: <u>193.02</u>		LCY			

TT 1 TT -	153.00 L	CY				
Heaped Volume:	192.00 L	CY				
Average Volume:	172.50 L	CY				
Adjusted Volume:	192.00 L	CY				
Final '	Truck Volume B	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity			D			
Rated Canacity:	53 000	LCY (heaped)	Buch	ket Size Class: <u>N</u>	A	-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		
Adjusted Capacity:	58.300		(100	120/0) 11100		
Job Condition Corrections:		Si	te Altitude (ft.).	7600 feet		
Job Condition Corrections:	Truck	Loader	Source	<u>7000</u> leet		
Altitudo Adi	1.000	0.080				
Ioh Efficiency:	0.830	0.980		2)		
JOU Enficiency.	0.000	0.030		,		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number (of Loading Tool Pag	sses Required to	Fill Truck:	3 n	asses
Excavators and Front Shovel	s:	6	1		<u> </u>	
Machine Cycle Time vs Selected Value w	vithin this Basic	Rating: <u>NA</u> Rating: <u>NA</u>				
Track Loaders – I	Material Descrip	otion:				
Cycle Time Elements (min.):						
Cycle Time Elements (min.): Load: <u>NA</u>	Ma	neuver: NA		Dump:0.100)	
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	 Unadiusted Basi	neuver: <u>NA</u>	ne (load. dump. 1	Dump: 0.100)	tes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors	_ _ Unadjusted Basi	neuver: <u>NA</u> ic Loader Cycle Tin	ne (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.)) .725 minu Source	tes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	Unadjusted Basi	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.03	ne (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.030) .725 minu Source (Cat HB)	tes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Ma Unadjusted Basi Material 6" and Conveyor or do	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high	ne (load, dump, 1 3 h and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000) .725 minu Source (Cat HB) (Cat HB)	tes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. high ership of trucks and	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	tes - -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. high ership of trucks and tion -0.04	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. hig ership of trucks and tion -0.04 0.00	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. hig ership of trucks and tion -0.04 c 0.00 Net Cycle Tim	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. hig ership of trucks and tion -0.04 0.00 Net Cycle Tim Adjusted Loade	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	tes - - - -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. hig ership of trucks and tion -0.04 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. hig ership of trucks and tion -0.04 :0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target 0.80	neuver: <u>NA</u> ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. higl ership of trucks and tion -0.04 :0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes 0.800	tes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target 0.80 1.450	neuver: NA ic Loader Cycle Tin d over diameter 0.03 ozer piled 10 ft. hig ership of trucks and tion -0.04 0.00 Net Cycle Tin Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480	tes - - - - Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: % Maneuver and Dump Time:	Ma Unadjusted Basi Material 6" and Conveyor or do Common owne Constant opera Nominal target 0.80 1.450 1.20	neuver: NA ic Loader Cycle Tin d over diameter 0.02 ozer piled 10 ft. hig ership of trucks and tion -0.04 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.030 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450 for site altitude: for site altitude: for site altitude:	.725 minu Source (Cat HB) 0.800 1.480 1.200	tes - - - - Minute Minute Minute

H	Haul Rout	e:						
S	Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		6762.00	-1.00	2.00	1.00	3503	2.521	-
п	Datum Da				Haul Time:	2.521	minutes	ŝ
R	keturn Ko	ute:	C and c (0()	Dall Das	Tatal Dag	Valasita	Traval	1
3	seg #	Haul Distance	Grade (%)	Roll. Res	Total Res	velocity	Time	
		(Ft)		(%)	(%)	(fpm)	(min)	
1		6658.00	0.00	2.00	2.00	3503	2.194]
				Total Tru	Return Time: ck Cvcle Time:	<u>2.194</u> 8.195	minut minut	es es
Loa	ding Tool	unit			- - - -			
Truck II	Produ	ction $4,603.46$	5 LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
THUCK OF	int i fodu	1,280.60) LCY/Hour		Adjusted for j	ob efficiency:	1,062.90	LCY/Hour
Optimal 1	No. of Tru	ucks:4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
			Adjuste	ed hourly truc	k team production	on: 4,251	1.59 LC	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,820	0.87 LC	Y/Hour
			Adjusted multip	le truck/loade	er team production	on: 3,820	0.87 LC	Y/Hour
<u>J</u>	IOB TIN	<u>IE AND COST</u>						
	Fleet s	ize: <u>1</u>	Team(s)	7	Total job time:	1,181.	95 H	lours
	Unit c	ost: \$1.422	/LCY		Total job cost:	\$6,421,	374	

Site: Colowyo Coal M	ine	Permit Actio	on: MT9		Permit/Job#:	C1981019
<u>PROJECT IDEN</u>	TIFICATION	<u>.</u>				
Task #: 012	0025	State: Colora	ido	Ab	breviation: <u>N</u>	None
User: HR1	.023	County. Mona	L		Filename. <u>(</u>)12
A gency or	organization par	ne: DPMS				
Agency of	organization nai					
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
т	······	True la KO	Equipment Descri	ption		
1	ruck Loader Tea	-Loader: LET	MAISU 830E FOURNEAU L23	50		
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U			
	-Dı	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA'	<u>F 16M</u> For Tankar, 14,000	Gal		
	- vv a		er ranker, 14,000	/ Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support l	Equipment	Mainten	ance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	r Water Truck
6Utilization-machine:	100	100	100	100	2:	5 2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	9 \$130.3
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	1 \$35.4
%Utilization-riper:	NA	0	NA	NA	NA	A N.
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.7	6 \$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.0	6 \$186.8
Number of Units:	4	1	1	1		1
Group Subtotals:	Work:	\$3,288.72	Support:	\$1,720.22	Maint	t: \$423.94
Total work team cos	st/hour: <u>\$5,432.</u>	88				
MATERIAL OU						
<u>MATERIAL QU</u>	ANIIIE5					
Initial volume:	3,900,843	CCY	Swell	factor: <u>1.000</u>		
Loose volume:	5,900,8	13 LUI				
So	urce of estimated	volume: Map	35A			
Source	Material Purch	ase Cost: $\$0.00$	anddook			
	То	otal Cost: $\$0.00$)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weight	ght) Basis:		D 17			
Material w	veight: 2,550	Dry nacked	Pounds/LCY			
DESCE	ipuon. Eatul -	DIY PACKEU				
Rated Pa	yload: 492,20	0	Pounds			

Haanad Voluma	135.00	LCY				
	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity					- .	
Rated Canacity:	53 000	I CV (heaped)	Buck	ket Size Class: <u>N</u>	A	_
Bucket Fill Factor:	1 100	Other - rock/dir	t mixtures (100	-120%) 1 100		_
Adjusted Capacity:	58.300	LCY		12070) 1.100		_
		<i></i>				
Job Condition Corrections:	-	Si	ite Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	<u>8)</u>		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.813				
Lee Prov Teel Coule Theory	NT 1				2	
Loading Tool Cycle Time:	Number	r of Loading Tool Pa	sses Required to	F111 I ruck:	<u> </u>	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs	s. Job Condition	n Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v	s. Job Condition within this Basi	n Rating: <u>NA</u> c Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v Track Loaders – 1	s. Job Condition within this Basi Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption:				
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):	s. Job Condition within this Basi Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption:				
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: NA	s. Job Condition vithin this Basi Material Descr M	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: NA		 Dump: 0.100)	
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Condition vithin this Basi Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Condition vithin this Basi Material Descr — M — Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Tin	me (load, dump, r	Dump: 0.100) 1.725 minu	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Condition vithin this Basi Material Descr M – Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Tin	me (load, dump, r	Dump: 0.100 naneuver):0 Factor (min.)) .725 minu Source	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	s. Job Condition vithin this Basi Material Descr — M Unadjusted Ba Material 6" a	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030) .725 minu Source (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile:	s. Job Condition vithin this Basi Material Descr – M – Unadjusted Ba Material 6" a Conveyor or	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u>NA</u> Ianeuver: <u>NA</u> usic Loader Cycle Tin <u>nd over diameter 0.0</u> dozer piled 10 ft. hig	me (load, dump, r 3 h and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000) .725 minu Source (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> ssic Loader Cycle Tir nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and	me (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040) Source (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> sic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04	me (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	me (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin <u>nd over diameter 0.0</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0. dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r 3 h and up 0.00 loaders -0.04 me Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) .725 minu Source (Cat HB) (Cat	utes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r 3 h and up 0.00 loaders -0.04 er Cycle Time: 'ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450) 5.725 minu Source (Cat HB) (Cat HB) (Ca	Ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> usic Loader Cycle Tin <u>nd over diameter 0.0</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes Minutes	utes Minute
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time: Truck Load Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant open Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u>NA</u> Ianeuver: <u>NA</u> sic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r 3 h and up 0.00 loaders -0.04 me Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:) 2.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	utes Minute
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0. dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r 3 h and up 0.00 loaders -0.04 er Cycle Time: c'ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	Ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time: Truck Load Time: St Maneuver and Dump Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0. dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r 3 h and up 0.00 loaders -0.04 me Adjustment: er Cycle Time: 'ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes

Haul	Route:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	7359	0.00	0.00	2.00	2.00	3328	3.102	
Retur	n Route:				Haul Time: _	3.102	minutes	
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	7359	0.00	0.00	2.00	2.00	3503	2.394	
T P	T 1			Total Tru	Return Time: ck Cycle Time:	2.394 8.976	minute	2S 2S
F F Truck Unit F	Production Production	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		1,169.17	LCY/Hour		Adjusted for j	ob efficiency:	970.41	LCY/Hour
Optimal No.	of Trucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
			Adjuste	d hourly truc	k team production	on: 3,881	1.65 LCY	ζ/Hour
			Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: <u>3,820</u> on: 3,820	0.87 LCY 0.87 LCY	{/Hour {/Hour
JOB	TIME A	ND COST						
F	leet size:	1	Team(s)	[Fotal job time:	1,020.	93 He	ours
τ	Jnit cost:	\$1.422	/LCY	,	Total job cost:	\$5,546,	596	

Site: Colowyo Coal M	ine	Permit Action	on: <u>MT9</u>	·	Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION	<u>]</u>				
Task #: 013		State: Colora	ado	Ab	breviation:	None
Date: $3/11/2$.025	County: Moffa	t		Filename:	013
User: <u>HR1</u>						
Agency or	organization nar	me: DRMS				
HOURLY EQUI	PMENT COS	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LE	1000000000000000000000000000000000000	50		
Supp	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Breekdown:	Truck/Lo	ader Team	Support	Fauinment	Mainte	nance Equipment
<u>Cost Di cakdown</u> .	Truck	Loader	Load Area	Dump Area	Motor Grad	er Water Truck
%Utilization_machine:	100	100	100	100		25 24
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179	<u>25 2.</u> 39 \$130.30
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29	91 \$35.44
%Utilization-riper:	0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	0	\$52 NA	032 NA	φ23.	A NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	00 \$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	00 \$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.2	76 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.0	06 \$186.88
Number of Units:	3	1	1	1		1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Main	nt: \$423.94
Total work team cos	t/hour: <u>\$4,924.</u>	00				
MATERIAL QU	ANTITIES					
Initial volume:	4,030,324	CCY	Swell	factor: 1.000		
Loose volume:	4,030,3	324 LCY				
So	arce of estimated	l volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: <u>\$0.00</u>)			
	10	50.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	<u>ght) Basis:</u>					
Material w	veight: <u>2,550</u>	Dm. n . 1 . 1	Pounds/LCY			
Descr	puon: Earth -	Dry packed				
Rated Da	vload. 102 20	0	Pounde			

Struck Volume:						
	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
5						
Fina	l Truck Volume	Based on Number o	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: N	A	
Rated Canacity:	53,000	I CV (heaped)	200			-
Bucket Fill Factor	1 100	Other - rock/di	rt mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	trinixtules (100	-120/0) 1.100		-
J 1 J						
Job Condition Corrections	<u>:</u>	S	ite Altitude (ft.):	7600 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	B)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Time	NT 1	of Loading Test D	Decos Docuine 1 4	Eill Tenzala	2	00000
Loading 1001 Cycle 1 line:	Number	of Loading 1001 Pa	isses Required to	F111 I fuck:	<u> </u>	asses
Excavators and Front Shove	<u>els:</u>					
Machine Cycle Time v Selected Value	vs. Job Condition	n Rating: <u>NA</u>				
	Witnin this Basi	$\sim Rating \sim N\Delta$				
Track Loaders –	Material Descri	c Rating: <u>NA</u>				
Track Loaders – Cycle Time Elements (min.)	Material Descri	c Rating: <u>NA</u>				
Cycle Time Elements (min.) Load: NA	Material Descri	c Rating: <u>NA</u>		 Dump: 0.100)	
Cycle Time Elements (min.) Load: <u>NA</u>	Material Descri	aneuver: <u>NA</u>		Dump:0.100)	
Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	Material Descri : M - Unadjusted Ba	c Rating: <u>NA</u> ption: faneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	Dump:0.100 naneuver):0) .725 minu	ites
Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	Material Descri : M - Unadjusted Ba	c Rating: <u>NA</u> iption: faneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	Dump:0.100 naneuver):0 Factor (min.)) .725 minu Source	ites
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	Material Descri Material Descri M Unadjusted Ba	c Rating: <u>NA</u> iption: ianeuver: <u>NA</u> sic Loader Cycle Tit	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source (Cat HB)	ites
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	Material Descri Material Descri M Unadjusted Ba Material 6" ar Conveyor or c	c Rating: <u>NA</u> iption: <u>NA</u> ianeuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig	me (load, dump, r 13 25 and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descri Material Descri Material Ba Material 6" ar Conveyor or c Common owr	c Rating: <u>NA</u> iption: <u>NA</u> ianeuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and	me (load, dump, r 13 14 and up 0.00 1 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descri Material Descri Material Or an Material 6" ar Conveyor or a Common own	c Rating: <u>NA</u> iption: <u>NA</u> ianeuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04	me (load, dump, r)3 2h and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri - Unadjusted Ba Material 6" ar Conveyor or o Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> faneuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	me (load, dump, r)3 gh and up 0.00 l loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Or an Material 6" ar Conveyor or o Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> faneuver: <u>NA</u> sic Loader Cycle Tinn nd over diameter 0.0 dozer piled 10 ft. hig pership of trucks and ration -0.04 et 0.00 Net Cycle Tin	me (load, dump, r 13 24 and up 0.00 1 loaders -0.04 1 ne Adjustment:	Dump:0.100 naneuver):0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.050 -0.050	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Orac Material 6" ar Conveyor or o Common owr Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.0 dozer piled 10 ft. hig pership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load	me (load, dump, r 13 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	Ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Organization Material 6" ar Conveyor or o Common own Constant oper Nominal targe	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri - Material Official Material 6" ar Conveyor or of Common own Constant oper Nominal targe	aneuver: NA iption: ianeuver: NA sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Material Descri Material Descri - Unadjusted Ba Material 6" ar Conveyor or c Common own Constant oper Nominal targe	c Rating: <u>NA</u> iption: <u>NA</u> istic Loader Cycle Tir nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	ites
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	 Material Descri Material Descri Unadjusted Ba Material 6" ar Conveyor or o Conveyor or o Constant oper Nominal target e: 0.80 e: 1.450 	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> sic Loader Cycle Ti and over diameter 0.00 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480	Ites
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 Material Descri Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common own Constant oper Nominal targe e: 0.80 e: 1.450 e: 1.20 	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> isic Loader Cycle Ti ind over diameter 0.0 dozer piled 10 ft. hig iership of trucks and cation -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes Minutes Minutes Minutes	me (load, dump, r 3 3 3 3 4 and up 0.00 1 loaders -0.04 1 loaders -0.04 1 loaders -0.04 2 1 loaders -0.04 2 3 3 4 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480 1.200 1.200	Minutes Minutes Minutes
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 Material Descri Material Descri Unadjusted Ba Material 6" ar Conveyor or constant oper Nominal target e: 0.80 e: 1.450 e: 1.20 	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> sic Loader Cycle Time and over diameter 0.0 dozer piled 10 ft. high hership of trucks and cation -0.04 et 0.00 Net Cycle Time Adjusted Load Net Load To Minutes Minutes Minutes Minutes Minutes	me (load, dump, r 3 2 3 2 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	ttes
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 Material Descri Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common own Constant oper Nominal target 	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> isic Loader Cycle Ti ind over diameter 0.0 dozer piled 10 ft. hig hership of trucks and cation -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes Minutes Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck: Adjusted Adjusted Adjusted Hard, smooth, sta	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 atered,	Minutes Minutes Minutes

Haul Ro	ute:							
Seg #	Haul D (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1135.0	0	-5.00	2.00	-3.00	3450	0.415	
					Haul Time:	0.415	minute	es
Return F	Route:				_			
Seg #	Haul D	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	7359.0	0	0.00	2.00	2.00	3503	2.394	
				Total Tru	Return Time: ck Cycle Time:	2.394 6.289	minu minu	ites ites
Loading To Proo Truck Unit Proo	ool unit duction duction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
	_	1,668.74	LCY/Hour		Adjusted for j	ob efficiency:	1,385.03	5 LCY/Hour
Optimal No. of 7	Frucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: 4,155	5.15 LO	CY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,820).87 LC	CY/Hour
			Adjusted multip	le truck/loade	er team production	on: 3,820).87 LO	CY/Hour
JOB T	IME AN	D COST						
Flee	t size:	1	Team(s)	r	Fotal job time:	1,054.	82	Hours
Uni	t cost:	\$1.289	/LCY		Total job cost:	\$5,193,	928	

Task description:	Load an	d Haul Spoil to 7	<u>FS-13</u>			
Site: Colowyo Coal M	line	Permit Actio	on: <u>MT9</u>		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	TIFICATION					
Task #• 014		- State: Colora	ado	Δh	breviation No	ne
Date: $3/11/2$	2025	County: Moffa	t	A0	Filename: 014	lic
User: HR1		-				
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	Г		Shift bas	sis: 1 per day	
		-	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	F		
		-Loader: LET	OURNEAU L23	50		
Supp	ort Equipment -L ת-	Load Area: Cat	<u>DIIT - IIU</u> DIIT - 11U			
Road M	aintenance – Mot	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Brookdown:	Truck/Log	adar Taam	Support	Equipmont	Maintanan	co Equipmont
<u>Cost Dreakuowii</u> .	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization machine:	100	100	100	100	25	25
% Ounzation-machine.	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$209.47	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	3	1	1	1	1	1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint:	\$423.94
Total work team cos	st/hour: <u>\$4,924.</u>	00				
<u>MATERIAL QU</u>	ANIIIE5					
Initial volume	3,986,133	CCY	Swell	factor: <u>1.000</u>		
Loose volume.						
Source	urce of estimated	volume: <u>Map</u>	35A Jandhook			
Source	Material Purch	ase Cost: \$0.00)			
	То	otal Cost: \$0.00)			
	DUCTION					
HOUKLY PRO	DUCTION					
Truck Capacity:	1.0 D					
<u>Iruck Payload (wer</u> Material v	<u>gnt) Basis:</u> veight: 2 550		Pounds/LCV			
Descr	iption: Earth -	Dry packed				
Rated Pa	yload: 492,20	0	Pounds			
Payload Ca	pacity: <u>193.02</u>		LCY			

· · · · · · · · · · · · · · · · · · ·	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
	1)2.00					
Final	Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: N	A	
Rated Canacity:	53,000	LCY (heaped)				_
Bucket Fill Factor:	1 100	Other - rock/di	irt mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	it inixtures (100	120/0) 1.100		-
Job Condition Connections		ç	Vita Altituda (ft.).	7600 fast		
Job Condition Corrections:	- True als	Landor		7 <u>600</u> Teet		
	1 ruck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	<u>)</u>		
Job Efficiency:	0.830	0.830	(CAT HE	5)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Times	Normalia	n of Looding Tool D	non a Demined to	Cill Transalar	2	
Loading Tool Cycle Time:	Numbe	r of Loading 1001 P	asses Required to	F111 I fuck:	<u> </u>	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time v	Loh Conditio					
Selected Value v	s. Job Conditio	on Rating: <u>NA</u>				
Selected Value v Track Loaders –	within this Basi	on Rating: <u>NA</u> ic Rating: <u>NA</u> intion:				
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):	vithin this Basi	in Rating: <u>NA</u> ic Rating: <u>NA</u> iption:				
Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA	within this Basi Material Descr	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption:		 Dump: 0.100)	
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basi Material Descr	ic Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u>		 Dump:0.100)	
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	, job Condition vithin this Basi Material Descr Unadjusted Ba	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti	ime (load, dump, r	Dump: 0.100)	ıtes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	Material Descr Material Descr Muterial Descr	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)	.725 minu Source	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u>	Material Descr Unadjusted Ba Material 6" a	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti nd over diameter 0.0	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti <u>nd over diameter 0.0</u> dozer piled 10 ft. hij	ime (load, dump, r 03 gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> <u>Stockpile:</u> Truck Ownership:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: <u>Operation:</u> Dump Target:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> <u>Stockpile:</u> <u>Truck Ownership:</u> <u>Operation:</u> <u>Dump Target:</u>	Material Descr Material Descr Material Descr Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descr Material Descr Material Obscr Material 6" a Conveyor or Common ow Constant ope Nominal targ	In Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> indover <u>NA</u> asic Loader Cycle Trinnership of trucks and tration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	Ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	In Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hi, nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	Ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time: Truck Load Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hij nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load 7 <u>Minutes</u> <u>Minutes</u>	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 0.800 1.480 1.480	ites Minute
Selected Value v Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti advised Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes Minutes	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 1.200	Minute Minute
Selected Value v Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.030 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	Ites

	Haul Rout	te:							
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	(min)	
	1	2742	.00	-2.00	2.00	0.00	3503	1.192	
						Haul Time:	1.192	minute	es
	Return Ro	oute:				_			
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	2742	.00	2.00	2.00	4.00	3411	1.284	
						Return Time:	1.284	minu	ites
					Total Tru	ck Cycle Time:	5.956	minu	ites
Lo	oading Too	ol unit							
	Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
Truck	Unit Produ	iction	1 7 60 04			A 11 / 1.C .	1 66 .	1 4 60 4	
			1,762.04	LCY/Hour		Adjusted for j	ob efficiency:	1,462.4	<u>9</u> LCY/Hour
Optima	l No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly true	k team production	on: 4,387	7.48 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 3,820).87 LO	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 3,82).87 LO	CY/Hour
	JOB TIN	ME Al	ND COST						
	Fleet	size:	1	Team(s)	r	Fotal job time:	1,043.	25	Hours
	Unit o	cost:	\$1.289	/LCY		Total job cost:	\$5,136,	979	

Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#:	C1981019
DDAIECT IDEN	TIFICATION					
Task #: 015 Date: 3/11/2 User: HR1	2025	State: <u>Colora</u> County: <u>Moffa</u>	ndo t	Ab	breviation: <u>1</u> Filename: <u>(</u>	None D15
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LEI oad Area: Cat	<u>OURNEAU L23</u> D11T - 11U	50		
	-Di	imp Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	<u>Γ 16M</u>			
	- W 8	ter Truck: wat	er Tanker, 14,000	Gal.		
Cost Breakdown:	Truck/Los	ader Team	Support I	Equipment	Mainter	nance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grade	r Water Truck
%Utilization-machine:	100	100	100	100	2	.5 2:
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	9 \$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	1 \$35.44
%Utilization-riper:	NA	0	NA	NA	NA	A NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.7	6 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.0	6 \$186.88
Group Subtotals:	3 Work:	\$2 770 84	Support	\$1,720,22	Main	1 t: \$423.04
Group Subiotais:	work:	\$2,779.84	Support:	\$1,720.22	Iviani	1. \$425.94
Total work team cos	st/hour: <u>\$4,924.</u>	00				
MATERIAL QU	ANTITIES					
Initial volume	4 065 316	CCY	Swell	factor: 1 000		
Loose volume	4,065,3	BI6 LCY	5 Wein	<u> </u>		
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	landbook			
	Material Purch	ase Cost: \$0.00)			
	10	50.00 Star Cost. 50.00)			
HOURLY PRO	DUCTION					
Truck Consoity						
Truck Payload (wei	ght) Basis:					
Material v	veight: 2,550		Pounds/LCY			
Descr	iption: <u>Earth -</u>	Dry packed				
Data 1 D	ulaad. 400.00	Δ	Dours			

Struck volume:	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity						
Poted Conscitu:	53 000	ICV (haapad)	Buck	tet Size Class: <u>N</u>	A	-
Bucket Fill Easter:	1 100	Other reek/dir	t mixtures (100	120%) 1 100		-
A divisted Conscitu:	58 200		i mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300					
Job Condition Corrections:	-	Si	te Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB			
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.813				
Looding Tool Crude There	NT	of Looding Tool D		Cill Transla	2	
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to I	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs Selected Value v	s. Job Condition	n Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v Track Loaders – J	s. Job Condition vithin this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.):	s. Job Conditior vithin this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:				
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA	s. Job Conditior vithin this Basic Material Descri M	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:		 Dump: 0.100		
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Conditior vithin this Basic Material Descri M	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:		 Dump:0.100)	
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Conditior vithin this Basic Material Descri M – Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: faneuver: <u>NA</u> sic Loader Cycle Tir	ne (load, dump, r	Dump:0.100		Ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Conditior vithin this Basic Material Descri M Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: faneuver: <u>NA</u> sic Loader Cycle Tir	ne (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.)	minu Source	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	s. Job Conditior vithin this Basic Material Descri M Unadjusted Ba Material 6" ar	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.02	ne (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030		ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba <u>Material 6" ar</u> Conveyor or c	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig	ne (load, dump, r 3 h and up 0.00	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership:	s. Job Condition vithin this Basic Material Descri – M Unadjusted Ba <u>Material 6" ar</u> <u>Conveyor or c</u> Common owr	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u>	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption:	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tir nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tir nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri – M Unadjusted Ba Material 6" ar Conveyor or c Common own Constant oper Nominal targe	n Rating: NA c Rating: NA ption:	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u>	s. Job Condition within this Basic Material Descri Unadjusted Ba Unadjusted Ba Material 6" ar Conveyor or o Common own Constant oper Nominal targe	n Rating: NA c Rating: NA iption: faneuver: NA sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	s. Job Condition within this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or co Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: faneuver: NA sic Loader Cycle Tin nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	ites Minute
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time: Truck Load Time:	S. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or co Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: faneuver: NA sic Loader Cycle Tin nd over diameter 0.02 dozer piled 10 ft. hig pership of trucks and cation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Mdjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480	ites Minute
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time: Truck Load Time: k Maneuver and Dump Time:	S. Job Condition within this Basic Material Descri Unadjusted Ba Unadjusted Ba Material 6" ar Conveyor or o Common own Constant oper Nominal targe 0.80 1.450 1.20	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and cation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 1.200	Minute Minute Minute

Hau	I Route:							
Seg	# Hay (Ft)	ul Distance)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
1	437	76.00	2.00	2.00	4.00	1786	(min) 2.743	
					Haul Time:	2.743	minute	s
Reti	urn Route:							_
Seg	# Ha	ul Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)		(%)	(%)	(fpm)	Time (min)	
1	437	76.00	-2.00	2.00	0.00	3503	1.453	
				Total Tru	Return Time: ck Cycle Time:	1.453 7.676	minu minu	tes
Loadin Truck Unit	ig Tool uni Productior Productior	t 1 <u>4,603.46</u> 1	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		1,367.19	LCY/Hour		Adjusted for j	ob efficiency:	1,134.77	LCY/Hour
Optimal No	. of Trucks	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly true	k team production	on: 3.404	4.31 LC	'Y/Hour
			Adjusted sing	le truck/loade	er team production	on: 3404	4 31 LC	Y/Hour
			Adjusted multin	le truck/loade	er team production	on: $3,10$	131 LC	Y/Hour
			rajustea manip		i team production			/1/11001
JO	B TIME A	AND COST						
	Fleet size:	1	Team(s)	r.	Fotal job time:	1,194.	<u>17</u> I	Hours
	Unit cost:	\$1.446	/LCY		Total job cost:	\$5,880,	088	

Site: Colowyo Coal M	ine	Permit Action	on: <u>MT9</u>		Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION	<u>]</u>				
Task #: 016		State: Colora	ado	Ab	breviation:	None
Date: $3/11/2$.025	County: Moffa	t		Filename:	016
User: <u>HR1</u>						
Agency or	organization nar	me: DRMS				
HOURLY EQUI	PMENT COST	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LE	<u>100KNEAU L23</u> D11T - 11U	50		
Supp	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance –Mot	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Breakdown.	Truck/Lo	ader Team	Support	Fauinment	Mainte	nance Equipment
<u>Cost Dicando wil</u>	Truck	Loader	Load Area	Dump Area	Motor Grad	er Water Truck
%Utilization-machine	100	100	100	100	,	25 24
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179	<u>29</u> 39 \$130 32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.	91 \$35.4
%Utilization-riper:	NA	0	NA	NA	N N	IA NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.	76 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.	06 \$186.88
Number of Units:	4	1	1	1		1
Group Subtotals:	Work:	\$3,288.72	Support:	\$1,720.22	Main	nt: \$423.94
Total work team cos	st/hour: <u>\$5,432.</u>	88				
MATERIAL QU	ANTITIES					
Initial volume:	4,033,424	CCY	Swell	factor: 1.000		
Loose volume:	4,033,4	LCY				
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: $\$0.00$)			
	10	50.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	<u>ght) Basis:</u>					
Material w	veight: <u>2,550</u>	Data a set set	Pounds/LCY			
Descr	iption: Earth -	Dry packed				
Rated Da	vload · 102 20	0	Pounde			

Truck Bed (volume) Basis:						
Struck Volume:	<u>153.00</u> L0	CY				
Heaped Volume:	<u>192.00</u> Lo	CY				
Average Volume:	<u>172.50</u> L	CY				
Adjusted Volume:	<u>192.00</u> L	CY				
Final	Fruck Volume B	ased on Number of I	Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buck	et Size Class: N	IA	
Rated Capacity:	53 000	LCY (heaped)	2001			_
Bucket Fill Factor	1 100	Other - rock/dirt	nixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300		(100	120,00 1.100		-
Job Condition Corrections:		Site	Altitude (ft.): 7	<u>/600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB)		
Job Efficiency:	0.830	0.830	(CAT HB)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number o	f Loading Tool Pass	os Poquirad to I	Fill Truck:	3 1	96606
Excavators and Front Shovels	5:	I Loading 10011 ass	es Required to I		ŀ	105505
Machina Cuala Tima ya	- Job Condition	Dating NA				
Selected Value w	ithin this Basic	Rating: <u>NA</u> Rating: <u>NA</u>				
Track Loaders – N	Material Descript	tion:				
Cycle Time Elements (min.):						
Load: NA	Mai	neuver: NA		Dump: 0.100)	
Wheel and Track Loaders -	Unadjusted Basi	c Loader Cycle Time	e (load, dump, n	naneuver): 0	.725 minu	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	Material 6" and	over diameter 0.03		0.030	(Cat HB)	_
Stockpile:	Conveyor or do	zer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	_
Truck Ownership:	Common owne	rship of trucks and lo	baders -0.04	-0.040	(Cat HB)	_
Operation:	Constant operat	tion -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal target	0.00		0.000	(Cat HB)	
		Net Cycle Time	Adjustment:	-0.050	minutes	
		Adjusted Loader	Cycle Time:	0.675	minutes	
		Net Load Tin	ne per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return) maintained 2.0	<u>) Time:</u>	Road Condition: <u>Ha</u>	ard, smooth, stal	bilized, surfaced, w	vatered,	

Haul Ro	ute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	6594.	.00	3.00	2.00	5.00	1550	4.524	
Return R	oute				Haul Time:	4.524	minutes	
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	6594.	.00	-3.00	2.00	-1.00	3503	1.941	
				Total Tru	Return Time: ck Cycle Time:	<u>1.941</u> 9.945	minute	S S
Loading To Prod Truck Unit Prod	ol unit luction luction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		1,055.25	LCY/Hour		Adjusted for j	ob efficiency:	875.85	LCY/Hour
Optimal No. of T	rucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
			Adjuste Adjusted sing Adjusted multip	ed hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	on: 3,503 on: 3,503 on: 3,503 on: 3,503	3.42 LCY 3.42 LCY 3.42 LCY LCY LCY	7/Hour 7/Hour 7/Hour
JOB TI	ME AN	ND COST						
Fleet	size:	1	Team(s)	7	Fotal job time:	1,151.	28 Ho	ours
Unit	cost:	\$1.551	/LCY	,	Total job cost:	\$6,254,	777	

Task description:	Load an	d Haul Spoil to T	ГЅ-16			
Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	TIFICATION					
Task #:17		State: Colora	ado	Ab	breviation: <u>No</u>	one
Date: $3/11/2$	2025	County: Moffa	t		Filename: 01	7
0.5er. <u>11K1</u>	·					
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Ί	ruck Loader Tea	m -Truck: KO	MATSU 830E FOURNEAU I 23	50		
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot Wa	or Grader: CA	<u>F 16M</u> er Tanker, 14.000	િગ		
	- ** 2	iter fruck. wat	ci Talikei, 14,000	, Oai.		
Cost Breakdown:	Truck/Loa	ader Team	Support l	Equipment	Maintena	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	25	2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.4
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.8
Number of Units:	3	¢2 770 84	l Constant	¢1 720 22	l Mainte	¢ 422.04
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint:	\$423.94
Total work team cos	st/hour: <u>\$4,924.</u>	00				
MATEDIAL OU	ANTITIES					
MATERIAL QU	ANIIIES					
Initial volume:	1,386,289	$\frac{1}{100}$	Swell	factor: <u>1.000</u>		
Loose volume.						
Source	of estimated	volume: <u>Map</u>	35A Jandbook			
Source	Material Purch	ase Cost: $\$0.00$)			<u> </u>
	То	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weighted Truck	ght) Basis:		Dour Ja/L CV			
Material w Descr	iption: <u>2,550</u>	Dry packed	Pounds/LCY			
Rated Pa	yload: 492,20	0	Pounds			
Payload Ca	pacity: 193.02		LCY			

Truck Bed (volume) Basis:						
Struck Volume:	153.00 I	.CY				
Heaped Volume:	192.00 L	.CY				
Average Volume:	172.50 L	.CY				
Adjusted Volume:	192.00 I	.CY				
Final	Fruck Volume I	Based on Number of I	Loader Passes:	174.90	LCY	
Loading Tool Capacity						
<u> </u>			Buel	vet Size Class: N	٨	
Dated Consister	52 000	ICV (baarad)	Duch			-
Rated Capacity:	1 100	Other reals/dirt	mintumas (100	1200/) 1 100		-
Adjusted Capacity:	<u> </u>	Unier - rock/dirt	inixtures (100	-120%) 1.100		-
Aujusted Capacity.	30.300					
Job Condition Corrections:		Site	Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB)		
Job Efficiency:	0.830	0.830	(CAT HB)		
				. <u></u>		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pass	es Required to l	Fill Truck:	<u>3</u> p	asses
Excavators and Front Shovels	s:					
Mashina Crusla Tima an	_ 	Deting NA				
Selected Value w	/ithin this Basic	Rating: NA NA				
Track Loaders – N	Material Descrip	otion:				
Cycle Time Elements (min.):						
Load: NA	Ma	neuver: NA		Dump: 0.100		
Wheel and Track Loaders -	Unadjusted Bas	ic Loader Cycle Tim	e (load, dump, r	naneuver): 0.	725 minu	ites
Cycle Time Factors	5	·		Factor (min)	Source	
Matarial:	Matarial 6" an	d over diameter 0.03			(Cot UR)	_
Stockpile:	Conveyor or d	ozer niled 10 ft high	and up 0.00	0.000	(Cat HB)	-
Truck Ownership	Common own	ership of trucks and h	paders -0.04	-0.040	(Cat HB)	_
Operation:	Constant opera	ation -0.04		-0.040	(Cat HB)	
Dump Target:	Nominal targe	t 0.00		0.000	(Cat HB)	_
		Net Cycle Time	Adjustment:	-0.050	minutes	_
		Adjusted Loader	Cycle Time:	0.675	minutes	
		Net Load Tir	ne per Truck:	1.450	minutes	
Truck Cycle Time:						
	0.00	Martin	A 1° / 1	C	0.000	N.C
Truck Exchange Time:	0.80	iviinutes	Adjusted	ior site altitude:	0.800	Ninute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return) maintained 2.0) Time:	Road Condition: <u>H</u>	ard, smooth, sta	bilized, surfaced, w	atered.	

	Haul Rout	e:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
	1	1711	00	-10.00	2.00	-8.00	1411	(min) 1 417	_
	1	1/11	.00	10.00	2.00	U.177	1 415	1.717]
	Return Ro	ute:				Haul Time:	1.417	minu	les
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
_	1	1711	.00	10.00	2.00	12.00	1628	(min) 1.517	_
					Total Tru	Return Time: ck Cycle Time:	1.517 6.414	min min	utes
Lo: Truck I	ading Tool Produ Unit Produ	l unit ction ction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	37 LCY/Hour
			1,636.21	LCY/Hour		Adjusted for j	ob efficiency:	1,358.0	06 LCY/Hour
Optimal	No. of Tru	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	on: 4,074 on: 3,820 on: 3,820	4.17 L 0.87 L 0.87 L	CY/Hour CY/Hour CY/Hour
	JOB TIM	1E A 1	ND COST						
	Fleet s	ize:	1	Team(s)]	Fotal job time:	362.8	32	Hours
	Unit c	ost:	\$1.289	/LCY	,	Total job cost:	\$1,786,	528	

Site: Colowyo Coal M	ine	Permit Actio	on: MT9		Permit/Job#:	C1981019
					-	
PROJECT IDEN	TIFICATION					
Task #: 018		State: Colora	ado	Ab	breviation:	None
Date: $3/11/2$	2025	County: <u>Moffa</u>	t		Filename:	018
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LEI	<u>OURNEAU L23</u> D11T - 11U	50		
Supp	-Di	imp Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown.	Truck/Lo	ader Team	Support	Equipment	Mainte	nance Equipment
<u>eost Dreakdown</u>	Truck	Loader	Load Area	Dump Area	Motor Grad	er Water Truck
Utilization machina:	100	100	100	- 100	,	25 2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179	<u>23</u> <u>2</u> 39 <u>\$1303</u>
Operating cost/hour:	\$209.47	\$581.06	\$324.90	\$324.90	\$29	91 \$35.4
%Utilization-riper:	φ27 MI7 NA	0	0.52 NA	\$52 NA	φ23.	VA N
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.	76 \$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.	06 \$186.8
Number of Units:	3	1	1	1		1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Main	nt: \$423.94
Total work team cos	st/hour: <u>\$4,924.</u>	00				
MATEDIAL OII	ANTITIES					
MATERIAL QU	<u>1 261 790</u>	CCV	C11	fastari 1.000		
Loose volume:	1,201,780	780 LCY	Swell	1actor. <u>1.000</u>		
So	urse of estimated	volume: Mon	25 \			
Source	of estimated swe	ell factor: Cat H	Jandbook			
	Material Purch	ase Cost: \$0.00)			
	То	otal Cost: \$0.00)			
μαιίρι ν δρα	ΠΙζΤΙΛΝ					
Truck Capacity:	aht) Basis					
Material v	veight: 2.550		Pounds/LCY			
	<u> </u>					
Descr	iption: <u>Earth -</u>	Dry packed				
Truck Bed (volume) Basis:						
--	--------------------------------------	--	-------------------	---------------------------	-----------	--------
Struck Volume:	153.00 I	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 I	LCY				
Adjusted Volume:	<u>192.00</u> I	LCY				
Final 7	Truck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buc	ket Size Class: N	Δ	
Rated Capacity:	53.000	LCY (heaped)	Duc	Ket Size Class. <u>IV</u>	Λ	_
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100)-120%) 1.100		-
Adjusted Capacity:	58.300	LCY	X	,		-
Job Condition Corrections:		Site	e Altitude (ft.):	<u>7600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Times	Normhan	of Looding Tool Dog	- 	Eill Tracela	2	
Excavators and Front Shovel	Number	of Loading 1001 Pas	ses Required to	Fill Ifuck:	<u> </u>	asses
	<u>.</u>					
Machine Cycle Time vs Selected Value w	. Job Condition vithin this Basic	Rating: <u>NA</u> Rating: <u>NA</u>				
Track Loaders – I	Material Descrit	otion:				
Cycle Time Elements (min.):		·				
Load: NA	Ma	aneuver: NA		Dump: 0.100)	
Wheel and Track Loaders -	Unadjusted Bas	sic Loader Cycle Tim	e (load, dump, 1	maneuver): 0.	.725 minu	ites
Cycle Time Factors	-	-	_	Factor (min.)	Source	
Material:	Material 6" an	d over diameter 0.03		0.030	(Cat HB)	_
Stockpile:	Conveyor or d	ozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	_
Truck Ownership:	Common own	ership of trucks and l	oaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant opera	ation -0.04		-0.040	(Cat HB)	
Dump Target:	Nominal targe	t 0.00		0.000	(Cat HB)	_
		Net Cycle Time	e Adjustment:	-0.050	minutes	
		Adjusted Loade	r Cycle Time:	0.675	minutes	
		Net Load Ti	me per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return) maintained 2.0) Time:	Road Condition: <u>H</u>	ard, smooth, sta	bilized, surfaced, w	atered,	

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	1973	.00	-8.00	2.00	-6.00	1870	1.199	
	Return Ro	oute:				Haul Time:	1.199	minute	28
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	1973	.00	8.00	2.00	10.00	1789	1.389	
Lo	ading Too	1it			Total Tru	Return Time: ck Cycle Time:	1.389 6.068	minu minu	ites
Truck	Produ Produ Unit Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
TTUCK	enit i fodd	etton	1,729.52	LCY/Hour		Adjusted for j	ob efficiency:	1,435.5	<u>)</u> LCY/Hour
Optima	l No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly true	k team production	on: 4,306	5.50 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,820$	<u>).87</u> LO	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: <u>3,820</u>	J.8 / LC	Y/Hour
	JOB TIN	ME AI	ND COST						
	Fleet	size:	1	Team(s)]	Fotal job time:	330.2	3	Hours
	Unit o	cost: _	\$1.289	/LCY	,	Total job cost:	\$1,626,	071	

Task description:	Load an	d Haul Spoil to 2	ГЅ-18			
Site: Colowyo Coal M	line	Permit Action	on: MT9		Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	JTIFICATION					
$\frac{\mathbf{T}_{\mathbf{X}}\mathbf{O}\mathbf{G}\mathbf{E}\mathbf{C}\mathbf{T}\mathbf{D}\mathbf{E}\mathbf{X}}{\mathbf{T}_{\mathbf{X}}\mathbf{S}\mathbf{K}} \neq 0.19$		State: Colors	do	Δh	breviation: No	ne
Date: $3/11/2$	2025	County: Moffa	t	A0	Filename: 019))
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>	
			Equipment Descri	ption		
[Truck Loader Tea	m - Truck: KO	MATSU 830E	50		
Supr	ort Equipment -I	Load Area: Cat	D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	laintenance – Mot	or Grader: CA	<u>F 16M</u>			
	- w a	tter Truck: wai	er Tanker, 14,000	J Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Maintenar	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	25	25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Maint:	\$423.94
Total work team co	st/hour: <u>\$4,415.</u>	12				
<u>MATERIAL QU</u>	ANTITIES					
Initial volume	: 736,093	ССҮ	Swell	factor: <u>1.000</u>		
Loose volume	: 736,09	93 LCY				
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: $\frac{$0.00}{$0.00}$)			
		<u> </u>	,			
HOURLY PRO	DUCTION					
Truck Canacity						
The second secon	oht) Basis.					
Truck Payload (wei	Sint Dubib.					
Truck Payload (wei Material v	veight: <u>2,550</u>		Pounds/LCY			
Truck Payload (wei Material v Descr	weight: 2,550 iption: Earth -	Dry packed	Pounds/LCY			

· · · · · · · · · · · · · · · · · · ·	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
	1)2.00					
Final	Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: N	A	
Rated Canacity:	53,000	LCY (heaped)				_
Bucket Fill Factor:	1 100	Other - rock/di	irt mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	it inixtures (100	120/0) 1.100		-
Job Condition Connections		ç	Vita Altituda (ft.).	7600 fast		
Job Condition Corrections:	- True als	Landor		7 <u>600</u> Teet		
	1 ruck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	<u>)</u>		
Job Efficiency:	0.830	0.830	(CAT HE	5)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Times	Normalia	n of Looding Tool D	non a Demined to	Cill Transalar	2	
Loading Tool Cycle Time:	Numbe	r of Loading 1001 P	asses Required to	F111 I fuck:	<u> </u>	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time v	Loh Conditio					
Selected Value v	s. Job Conditio	on Rating: <u>NA</u>				
Selected Value v Track Loaders –	within this Basi	on Rating: <u>NA</u> ic Rating: <u>NA</u> intion:				
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):	vithin this Basi	in Rating: <u>NA</u> ic Rating: <u>NA</u> iption:				
Selected Value v Track Loaders – T Cycle Time Elements (min.): Load: NA	within this Basi Material Descr	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption:		 Dump: 0.100)	
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basi Material Descr	ic Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u>		 Dump:0.100)	
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	, job Condition vithin this Basi Material Descr Unadjusted Ba	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti	ime (load, dump, r	Dump: 0.100)	ıtes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	Material Descr Material Descr Muterial Descr	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)	.725 minu Source	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u>	Material Descr Unadjusted Ba Material 6" a	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti nd over diameter 0.0	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti <u>nd over diameter 0.0</u> dozer piled 10 ft. hij	ime (load, dump, r 03 gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> <u>Stockpile:</u> Truck Ownership:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: <u>Operation:</u> Dump Target:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> <u>Stockpile:</u> <u>Truck Ownership:</u> <u>Operation:</u> <u>Dump Target:</u>	Material Descr Material Descr Material Descr Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Material Descr Material Descr Material Obscr Material 6" a Conveyor or Common ow Constant ope Nominal targ	In Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> indover <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	Ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	In Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hi, nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	Ites
Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hij nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load 7 <u>Minutes</u> <u>Minutes</u>	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	ites Minute
Selected Value v Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti advised Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes Minutes	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 1.200	Minute Minute
Selected Value v Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	Material Descr Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hi nership of trucks and ration -0.04 get 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.030 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	Ites

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	815.0	00	-5.50	2.00	-3.50	2545	0.433	
	Return Ro	oute:				Haul Time: _	0.433	minute	S
Γ	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	815.0	0	5.50	2.00	7.50	2327	0.757	
Le	ading Too	lunit			Total Tru	Return Time: ck Cycle Time:	<u>0.757</u> 4.670	minu minu	ites
Truck	Produ Unit Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
	0		2,247.31	LCY/Hour		Adjusted for j	ob efficiency:	1,865.20	5 LCY/Hour
Optima	l No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly true	k team production	on: 3,730).53 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,730$	<u>).53</u> LO	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 3,730	<u>).53</u> LC	CY/Hour
	JOB TIN	ME AN	ND COST						
	Fleet	size:	1	Team(s)]	Fotal job time:	197.3	2	Hours
	Unit o	cost: _	\$1.184	/LCY	,	Total job cost:	\$871,1	.74	

Site: Colowyo Coal M	Aine	Permit Actio	on: <u>MT9</u>	·	Permit/Job#: <u>C</u>	21981019
$\begin{array}{c} \textbf{PROJECT IDE} \\ \text{Task #: } & 020 \\ \text{Date: } & 3/11/ \\ \text{Usage 1} & 112 \\ \end{array}$	NTIFICATION	ON State: Colorado County: Moffat			breviation: <u>N</u> Filename: <u>02</u>	one 20
A gapay a	r organization no	na: DDMS				
Agency o	r organization nai	ne. <u>DRMS</u>				
HOURLY EQU	IPMENT COS	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
	Truck Loader Tea	-Loader: LET	MATSU 850E FOURNEAU L23	50		
Sup	port Equipment -I	Load Area: Cat	D11T - 11U			
D 1)	-D	ump Area: Cat	D11T - 11U			
Road N	laintenance – Mot -Wa	or Grader: CA	<u>1 16M</u> ter Tanker, 14.000) Gal.		
			, 1.,000			
Cost Breakdown:	Truck/Lo	ader Team	Support I	Equipment	Maintena	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	water Truck
%Utilization-machine:	100	100	100	100	25	2:
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2	¢2 270 00	l Constant	¢1 720 22	l Mainta	¢422.04
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Maint:	\$423.94
Total work team co)st/nour: <u>54,415.</u>	12				
MATERIAL QU	J ANTITIES					
Initial volume	e: 239.096	CCY	Swell	factor: 1.000		
Loose volume	239,0	96 LCY				
S	ource of estimated	l volume: Map	35A			
Source	e of estimated swe	ell factor: Cat H	landbook			
	Material Purch	ase Cost: \$0.00)			
	10	otal Cost: <u>\$0.00</u>)			
HOURLY PRO	DUCTION					
Truck Conscient						
Truck Payload (we	ight) Basis:					
Material	weight: 2,550		Pounds/LCY			
Desc	ription: Earth -	Drv packed				
D.4 1D	1	0	Dans 1			

Struck volume:	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity						
Poted Conscitu:	53 000	ICV (haapad)	Buck	tet Size Class: <u>N</u>	A	-
Bucket Fill Easter:	1 100	Other reek/dir	t = mixtures (100)	120%) 1 100		-
A divisted Conscitu:	58 200		i mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300					
Job Condition Corrections:	-	Si	te Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB			
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.813				
Looding Tool Crude There	NT	of Looding Tool D		Cill Transla	2	
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to I	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs Selected Value v	s. Job Condition	n Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v Track Loaders – J	s. Job Condition vithin this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.):	s. Job Conditior vithin this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:				
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA	s. Job Conditior vithin this Basic Material Descri M	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:		 Dump: 0.100		
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Conditior vithin this Basic Material Descri M	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:		 Dump:0.100)	
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Conditior vithin this Basic Material Descri M – Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: faneuver: <u>NA</u> sic Loader Cycle Tir	ne (load, dump, r	Dump:0.100		Ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Conditior vithin this Basic Material Descri M Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: faneuver: <u>NA</u> sic Loader Cycle Tir	ne (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.)	minu Source	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	s. Job Conditior vithin this Basic Material Descri M Unadjusted Ba Material 6" ar	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.02	ne (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030		ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Condition vithin this Basic Material Descri M Unadjusted Ba <u>Material 6" ar</u> Conveyor or c	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig	ne (load, dump, r 3 h and up 0.00	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership:	s. Job Condition vithin this Basic Material Descri – M Unadjusted Ba <u>Material 6" ar</u> <u>Conveyor or c</u> Common owr	n Rating: <u>NA</u> c Rating: <u>NA</u> ption: <u></u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u>	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or o Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption:	ne (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tir nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tir nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basic Material Descri – M Unadjusted Ba Material 6" ar Conveyor or o Common own Constant oper Nominal targe	n Rating: NA c Rating: NA ption:	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u>	s. Job Condition within this Basic Material Descri Unadjusted Ba Unadjusted Ba Material 6" ar Conveyor or o Common own Constant oper Nominal targe	n Rating: NA c Rating: NA iption: faneuver: NA sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	s. Job Condition within this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or co Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: faneuver: NA sic Loader Cycle Tin nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	ites Minute
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time: Truck Load Time:	S. Job Condition vithin this Basic Material Descri Unadjusted Ba Material 6" ar Conveyor or co Common owr Constant oper Nominal targe	n Rating: NA c Rating: NA ption: NA faneuver: NA sic Loader Cycle Tin nd over diameter 0.02 dozer piled 10 ft. hig nership of trucks and cation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.480	ites Minute
Machine Cycle Time vs Selected Value v Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time: Truck Load Time: k Maneuver and Dump Time:	S. Job Condition within this Basic Material Descri Unadjusted Ba Unadjusted Ba Material 6" ar Conveyor or o Common own Constant oper Nominal targe 0.80 1.450 1.20	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and cation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	ne (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 0.000 -0.040 0.000 -0.050 0.675 1.450	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200 1.200	Minute Minute Minute

	Haul Rou	te:							
	Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel Time	
		(Ft)			(%)	(%)	(fpm)	(min)	
	1	436.00)	-2.00	2.00	0.00	3503	0.533	
						Haul Time:	0.533	minute	es
	Return Ro	oute:				_			
	Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	(min)	
	1	436.00)	2.00	2.00	4.00	3411	0.608	
						Return Time:	0.608	minu	ites
					Total Tru	ck Cycle Time:	4.621	minu	ites
L	oading Too	l unit							
	Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
Truck	Unit Produ	iction	0.071.14				1 66 .	1 005 0	
		-	2,271.14	LCY/Hour		Adjusted for j	ob efficiency:	1,885.0	$\underline{4}$ LCY/Hour
Optima	ıl No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truc	k team production	on: 3,770).09 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 3,770).09 LO	CY/Hour
			1	Adjusted multip	le truck/loade	er team production	on: 3,770).09 LO	CY/Hour
	JOB TIM	ME AN	<u>D COST</u>						
	Fleet	size:	1	Team(s)	-	Fotal job time:	63.42	2	Hours
	Unit	cost:	\$1.171	/LCY		Total job cost:	\$280,0	03	

Site: Colowvo Coal M	line	Permit Actio	on: MT9		Permit/Job#:	C1981019
<u></u>						01/01/01/
PROJECT IDEN	TIFICATION	•				
Task #: 021		State: Colora	udo	Ab	breviation: <u>N</u>	None
Date: $3/11/2$	2025	County: <u>Moffa</u>	t		Filename: 0	021
User: <u>HR1</u>						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	Load Area: Cat	$\frac{100 \text{ KNEAU L25}}{\text{D11T} - 110}$	50		
	-Du	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	<u>Γ 16M</u>			
	- w a	ter Truck: wai	er Tanker, 14,000	Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Mainten	ance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grade	r Water Truck
%Utilization-machine:	100	100	100	100	2:	5 2
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.3	9 \$130.3
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.9	1 \$35.4
%Utilization-riper:	NA	0	NA	NA	NA	A NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.0	0 \$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.7	5 \$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.0	5 \$186.8
Number of Units:	3	1	1	1		1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint	: \$423.94
Total work team cos	st/hour: <u>\$4,924.</u>	00				
MATERIAL QU	<u>ANTITIES</u>					
Initial volume:	453,833	CCY	Swell	factor: <u>1.000</u>		
Loose volume:	453,8.	<u>55</u> LCY				
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ase Cost: \$0.00	andbook			
	To	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:					
Material w	veight: 2,550	Derman	Pounds/LCY			
Rated Pa	$\frac{121011}{1}$	0	Pounds			

Struck Volume						
Succe (Orallic.	153.00 I	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 I	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume	Based on Number	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: N	NA	
Rated Canacity:	53 000	I CV (heaped))			_
Bucket Fill Factor:	1 100	Other - rock/d	/ lirt mixtures (100)-120%) 1 100		_
Adjusted Capacity:	58.300	LCY		120/07 1.100		-
· · · <u>-</u>						
Job Condition Corrections	<u>:</u>		Site Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Looding Teel Coole Th	NT 1	of Loo Har The 1D	-		2	
Loading Tool Cycle Time:	Number	of Loading Tool P	asses Required to	Fill Truck:	31	basses
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time y	s. Job Condition	Rating: NA				
Selected Value	within this Basic	Rating: NA				
Selected Value Track Loaders –	within this Basic Material Descri	c Rating: <u>NA</u>				
Selected Value Track Loaders – Cycle Time Elements (min.):	within this Basic Material Descri	e Rating: <u>NA</u> ption:				
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA	within this Basic Material Descri	e Rating: <u>NA</u> ption: aneuver: NA		 Dump: 0.10	0	
Selected Value Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	within this Basic Material Descri	e Rating: <u>NA</u> ption: aneuver: <u>NA</u>		Dump:0.10	0	
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders -	within this Basic Material Descrip — — • Unadjusted Bas	e Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle T	· ime (load, dump, 1	Dump: 0.10	0 0.725mint	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors	within this Basic Material Descrip Ma Unadjusted Bas	e Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle T	 ime (load, dump, 1	Dump: 0.10 maneuver):(Factor (min.)	0 0.725 minu Source	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material:	within this Basic Material Descrip Ma Unadjusted Bas Material 6" an	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0.	 ime (load, dump, 1 03	Dump: 0.10 maneuver):(Factor (min.) 0.030	0 0.725 minut Source (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	within this Basic Material Descrip Material Ocscrip Unadjusted Bas Material 6" an Conveyor or d	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi	ime (load, dump, 1 03 igh and up 0.00	Dump: 0.10 maneuver):(Factor (min.) 0.030 0.000	0 0.725 minute Source (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basic Material Descrip Material Ocscrip Unadjusted Bas Material 6" an Conveyor or d Common own	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi tership of trucks an	ime (load, dump, 1 03 igh and up 0.00 id loaders -0.04	Dump: 0.10 maneuver):(Factor (min.) 0.030 0.000 -0.040	0 0.725 minute Source (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descrip Material Obscrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper	e Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi hership of trucks an ation -0.04	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040	0 .725 minutors Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Obscrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00	ime (load, dump, 1 03 igh and up 0.00 id loaders -0.04	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	0 .725 minutors Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Obscrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti	Time (load, dump, 1 03 igh and up 0.00 id loaders -0.04 ime Adjustment:	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	0 .725 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Obscrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T dover diameter 0. dozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa	Yime (load, dump, 1 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time:	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	0 .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Obscrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	0 .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	e Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T dover diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.10 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	0 0.725 minutes (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T dover diameter 0. dozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load	Yime (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	0 D.725 minutes (Cat HB) (Cat HB	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.10 maneuver):(Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	0 0.725 minutes (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	within this Basic Material Descript Material Descript Unadjusted Bas Material 6" an Conveyor or d Common own Constant oper Nominal targe	e Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. dozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes Minutes Minutes	ime (load, dump, n 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude:	0 0.725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	within this Basic Material Description Unadjusted Basic Material 6" an Conveyor or d Common own Constant oper Nominal targe	e Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle T d over diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes Minutes Minutes	Yime (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.10 maneuver): (Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude:	0 0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes — — — — — — — — — — — — —
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	within this Basic Material Description Unadjusted Base Material 6" an Conveyor or d Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u></u> aneuver: <u>NA</u> sic Loader Cycle T nd over diameter 0. lozer piled 10 ft. hi tership of trucks an ation -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load 1 Minutes Minutes Minutes Minutes	Time (load, dump, r 03 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.10 maneuver):(Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude:	0 D.725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes

Haul R	oute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2507	7.00	-2.00	2.00	0.00	3503	1.125	_
Doturn	Pouto				Haul Time:	1.125	minute	S
Seg #	Haul	Distance	Grade (%)	Roll Res	Total Res	Velocity	Travel	7
Seg #	(Ft)	Distance	Grade (70)	(%)	(%)	(fpm)	Time (min)	
1	2507	7.00	2.00	2.00	4.00	3411	1.215	
Leading 7	7a a 1 ang i 4			Total Tru	Return Time: ck Cycle Time:	1.215 5.820	minu minu	tes tes
Truck Unit Pro	oduction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	/ LCY/Hour
	<i>ouclion</i>	1,803.22	LCY/Hour		Adjusted for j	ob efficiency:	1,496.67	7 LCY/Hour
Optimal No. of	Trucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: 4,490	0.02 LC	CY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,820).87 LC	CY/Hour
			Adjusted multip	le truck/loade	er team production	on: 3,820	0.87 LC	Y/Hour
JOB 7	TIME A	ND COST						
Fle	et size:	1	Team(s)]	Fotal job time:	118.7	7 <mark>8</mark> I	Hours
Ur	nit cost:	\$1.289	/LCY	,	Total job cost:	\$584,8	60	

Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#:	C1981019	
PROJECT IDEN	TIFICATION						
Task #: 022 Date: 3/11/2 User: HR1	2025	State: <u>Colora</u> County: <u>Moffa</u>	ido t	Ab	breviation: _ Filename: _	None 022	
Agency or	organization nar	ne: DRMS					
HOURLY EQUI	PMENT COST	<u>C</u>		Shift bas	sis: <u>1 per day</u>		
		I	Equipment Descri	ption			
Т	Fruck Loader Tea	m -Truck: KO	MATSU 830E	50			
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U	30			
	-Du	ump Area: Cat	D11T - 11U				
Road M	aintenance – Mot	or Grader: CA	<u>F 16M</u> er Tanker - 14 000) Gal			
	- vv a	iter fluck. wat	er Taliker, 14,000) Gai.		<u> </u>	
Cost Breakdown:	Truck/Loa	ader Team	Support l	Equipment	Mainte	enance Equipme	nt
	Truck	Loader	Load Area	Dump Area	Motor Grad	ler Water Tru	ıck
%Utilization-machine:	100	100	100	100		25	25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.	39 \$13	0.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.	.91 \$3	5.44
%Utilization-riper:	NA	0	NA	NA	Ν	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$	0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0	$\frac{0.00}{1.10}$
Uperator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.	16 \$2 06 \$19	1.12
Number of Units:	\$508.88	\$1,255.20	\$800.11	\$800.11	\$257.	1	0.80
Group Subtotals:	Work:	\$2 270 96	Support:	\$1 720 22	Mai	nt: \$423.94	
Total work team cos	st/hour: <u>\$4,415.</u>	12	<u>Sabborn</u>	÷1,1=01==			
MATERIAL QU	ANTITIES						
Initial volume	556,913	CCY	Swell	factor: <u>1.000</u>			
Loose volume.							
Source	of estimated	volume: <u>Map</u> All factor: Cat H	35A Iandhook				
bource	Material Purch	ase Cost: \$0.00					
	То	otal Cost: \$0.00					
HOURLY PRO	DUCTION						
Truck Capacity:							
Truck Payload (wei	ght) Basis:			-			
Material v Descr	veight: <u>2,550</u> iption: Earth -	Dry packed	Pounds/LCY				
Rated Pa	yload: 492,20	0	Pounds				

Truck Bed (volume) Basis:						
Struck Volume:	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Einel	Tmalt Volumo	Deced on Number of	Loodon Doogoot	174.00	LCV	
Loading Tool Canacity	TTUCK VOlume	Based on Number of	Loader Fasses.	1/4.70	LC1	
Louding Tool Cupacity			Dual	tot Size Clease N	•	
	52 000		Duci	ket Size Class. <u>N</u>	A	_
Rated Capacity:	53.000	LCY (neaped)	(100	1200() 1 100		-
Adjusted Capacity:	<u> </u>	LCY	mixtures (100	-120%) 1.100		-
	201200					
Job Condition Corrections:		Sit	e Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	8)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time	Number	of Loading Tool Pag	ses Required to	Fill Truck	3 r	25565
Excavators and Front Shovel	Number	of Loading 10011 as	ses required to		_ <u> </u>	45505
Excavators and Front Shover	<u>.</u>					
Machine Cycle Time vs Selected Value w	Job Condition vithin this Basic	n Rating: <u>NA</u> 2 Rating: NA				
Track Loaders – I	Material Descri	ption:				
Cycle Time Elements (min.):						
Load: NA	Μ	aneuver: NA		Dump: 0.100		
Wheel and Track Loaders -	Unadiusted Ba	sic Loader Cycle Tin	ne (load, dump, r	naneuver): 0.	.725 minu	ites
Cycle Time Factors	j			Factor (min)	Source	
Material:	Material 6" ar	nd over diameter 0.03	2	0.030	(Cat HB)	_
Stockpile:	Conveyor or o	lozer piled 10 ft high	$\frac{1}{2}$ and up 0.00	0.000	(Cat HB)	
Truck Ownership	Common own	ership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant oper	ration -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	et 0.00		0.000	(Cat HB)	_
Bump Turget.	i toininai taigt	Net Cycle Tim	e Adjustment:	-0.050	minutes	_
		Adjusted Loade	er Cycle Time:	0.675	minutes	
		Net Load Ti	me per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return maintained 2.0) Time:	Road Condition: <u>I</u>	<u>Iard, smooth, sta</u>	<u>bilized, surfaced, w</u>	atered,	

Haul Ro	ute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1399	.00	0.00	2.00	2.00	3328	1.312	
Return F	Route:				Haul Time:	1.312	minute	es
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1399	.00	0.00	2.00	2.00	3503	0.693	
Tee Par T				Total Tru	Return Time: ck Cycle Time:	0.693 5.485	minu minu	ites
Loading To Proo Truck Unit Proo	duction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
		1,913.36	LCY/Hour		Adjusted for j	ob efficiency:	1,588.09	9 LCY/Hour
Optimal No. of 7	Frucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team producti	on: 3,176	5.18 LO	CY/Hour
			Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production	on: $3,176$ on: $3,176$	6.18 LC 6.18 LC	CY/Hour CY/Hour
JOB T	IME AN	ND COST						
Flee	t size:	1	Team(s)	r	Fotal job time:	175.3	34]	Hours
Uni	t cost:	\$1.390	/LCY	,	Total job cost:	\$774,1	50	

Task description:	Load an	nd Haul Spoil to T	ГS-22			
Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#:	C1981019
PROJECT IDEN	TIFICATION	[
Task # 023		- State: Colora	ado	Ab	breviation.	None
Date: $3/11/2$	2025	County: Moffa	t	110	Filename:	023
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
1	Fruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LEI	D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	<u>Γ 16M</u>			
	-Wa	tter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Lo	ader Team	Support I	Equipment	Mainte	enance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grad	er Water Truck
%Utilization-machine	100	100	100	100		25 25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179	<u>25 25</u> 39 \$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.	91 \$35.44
%Utilization-riper:	NA	0	NA	NA	¢2).	VA NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.	00 \$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.	76 \$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.	06 \$186.88
Number of Units:	2	1	1	1		1 1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Main	nt: \$423.94
Total work team cos	st/hour: <u>\$4,415.</u>	12				
MATERIAL QU	ANTITIES					
Initial volume	: 347.730	CCY	Swell	factor: 1.000		
Loose volume	: 347,7	30 LCY	~			
So	urce of estimated	volume: Map	35A			
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: \$0.00)			
	16	otal Cost: <u>\$0.00</u>)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:		D 1			
Material v	veight: 2,550	Dry peaked	Pounds/LCY			
Rated Pa	vload: 492.20	0	Pounds			
Payload Ca	pacity: 193.02		LCY			

Truck Bed (volume) Basis:						
Struck Volume:	153.00 L	.CY				
Heaped Volume:	192.00 L	.CY				
Average Volume:	172.50 L	.CY				
Adjusted Volume:	192.00 L	.CY				
Final	Fruck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			D	ant Sing Classes N	٨	
Rated Canacity:	53 000	I CV (heaped)	Buck	tet Size Class: <u>N</u>	A	_
Bucket Fill Factor:	1 100	Other - rock/dirt	mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	mixtures (100	-12070) 1.100		-
Job Condition Corrections:		Sit	e Altitude (ft.). 7	7600 feet		
<u>Job Condition Corrections.</u>	Truck	Loader	Source	<u>1000</u> Ieet		
Altitude Adi:	1 000	0.980	(CAT HR	3		
Job Efficiency:	0.830	0.830	(CAT HB	<u>)</u>		
			(·		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	ses Required to 1	Fill Truck:	3 r	asses
Excavators and Front Shovel	s.				r	
Executators and From Shoven	<u>.</u>					
Machine Cycle Time vs Selected Value w	. Job Condition vithin this Basic	Rating: <u>NA</u> Rating: NA				
Track Loaders – N	Material Descrip	otion:				
Cycle Time Elements (min.):	_					
Load: NA	Ma	neuver: NA		Dump: 0.100		
	-	·		<u> </u>		
Wheel and Track Loaders -	Unadjusted Bas	ic Loader Cycle Tin	ie (load, dump, n	naneuver): 0 .	<u>725</u> mini	ites
Cycle Time Factors	Material (22 au	1	•	Factor (min.)	Source	_
Material:	Material 6" and	d over diameter 0.03		0.030	(Cat HB)	_
Stockpile:	Conveyor or de	ozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	-
Truck Ownership:	Common owne	ership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant opera	$\frac{1100 - 0.04}{0.00}$		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	Not Cuolo Tim	a A divertment	0.000	(Cat HB)	_
		A diverte d L and	e Aujustinent:	-0.030	minutes	
		Adjusted Load	r Cycle Time:	0.075	minutes	
		Iner Load 11	me per fruck:	1.430	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Transle Transl (Houl & Datum)	\ Time or	D 1 (C 1'(' T				
Truck Travel (Haur & Return)	<u>) Time:</u>	Road Condition: <u>F</u>	lard, smooth, sta	bilized, surfaced, w	atered,	

Haul I	Route:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	628.0	00	3.00	2.00	5.00	1550	0.675	
					Haul Time:	0.675	minute	es
Returr	n Route:				-			
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	628.0	00	-3.00	2.00	-1.00	3503	0.233	
				Total Tru	Return Time: ck Cycle Time:	0.233 4.388	minı minı	ites
Loading ' Pr Truck Unit Pr	Tool unit coduction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
	o da o di o di	2,391.74	LCY/Hour		Adjusted for j	ob efficiency:	1,985.1	5 LCY/Hour
Optimal No. o	f Trucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 3,970).30 LO	CY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,820).87 LO	CY/Hour
			Adjusted multip	le truck/loade	er team production	on: 3,820).87 LO	CY/Hour
JOB	TIME A	ND COST						
Fl	eet size:	1	Team(s)	r.	Fotal job time:	91.0	11	Hours
U	nit cost:	\$1.156	/LCY		Total job cost:	\$401,8	512	

Task description:	Regrade Gossard Loadout			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFIC	CATION			
Task #: 024 Date: 3/11/2025 User: HR1	State: Colorado County: Moffat		Abbreviation: Filename:	None 024
Agency or organi	zation name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D11T - 11U			
Horsepower: 850				
Blade Type: Univ	versal			
Attachment: <u>1-sha</u>	ank ripper			
Data Source: (CR	G)			
Cost Breakdown:				
	\$204 FF	Utilization %		
Ownership Cost/Hour:	\$334.55	NA 100		
Pipper own Cost/Hour:	\$200.05	100 NA		
Ripper on Cost/Hour.	\$30.40	0		
Operator Cost/Hour:	\$38.59	NA		
MATERIAL QUANTI Initial Volume: 7,422 Swell factor: 1.000 L cosa volume: 7,422				
Loose volume. <u>7,422</u>				
Source of estimated volum Source of estimated swell	factor: Cat Handbook	ion, Mining & Safety		
HOURLY PRODUCT	ION			
Average push distance:	200 feet			
Unadjusted hourly product	1500 LCV/h			
	1011: 1,560.0 LC 1/hr			
Materials consistency desc	ription: <u>Compacted fill or e</u>	mbankment 0.9		
Materials consistency desc Average push gradient: Average site altitude:	ription:Compacted fill or e 5 % 7,600 feet	mbankment 0.9		
Materials consistency desc Average push gradient: Average site altitude: Material weight:	ription:Compacted fill or e 5 % 7,600 feet 2,572 lbs/LCY	mbankment 0.9		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	ription: <u>Compacted fill or e</u> <u>5 %</u> <u>7,600 feet</u> <u>2,572 lbs/LCY</u> User Provided	mbankment 0.9		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction H	ription:Compacted fill or e 5 % 7,600 feet 2,572 lbs/LCY User Provided Factor	mbankment 0.9		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction H Operator S	ription:Compacted fill or e 5 % 7,600 feet 2,572 lbs/LCY User Provided Factor kill: 0.900	mbankment 0.9 Source (AB.AVG.)		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S Material consistent	ion: 1,300.0 LC Y/hr ription: Compacted fill or e 5 %	<u>Source</u> (AB.AVG.) (CAT HB)		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S Material consister Dozing met	ion: 1,300.0 LC Y/hr ription: Compacted fill or e 5 % 7,600 feet 2,572 lbs/LCY User Provided Factor 6.900 kill: 0.900 ncy: 0.900 ind: 1.000	mbankment 0.9 Source (AB.AVG.) (CAT HB)) (GEN.)		

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	1.000	(DOZ-OC)
Push gradie	nt:	0.903	(CAT HB)
Altitud	de:	0.930	(CAT HB)
Material Weig	ht:	0.894	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.5047	
Adjusted unit production:	78	7.33 LCY/hr	
Adjusted fleet production:	31	49.32 LCY/hr	
	_		

Fleet size:	4 Dozer(s)
Unit cost:	\$0.851/LCY

Total job time:	2.36 Hours
Total job cost:	\$6,318

	Task description:	Rip	Facilities Area				
Site	: <u>Colowyo Coal</u> N	Mine	Permit Action:	MT9	Permit	/Job#: <u>C</u>	1981019
	PROJECT IDE	NTIFICAT	ION				
	Task #: 025		State: Colorado		Abbrevia	tion: No	ne
	Date: 3/11/	/2025	County: Moffat		Filena	ame: 025	5
	User: HR1						
	Agency of	or organizatio	n name: DRMS				
	HOURLY EQU	IPMENT (<u>COST</u>				
	Basic M	lachine: C	at D11T - 11U		Horsepower:	850	
	Ripper Attac	chment: 1-	Shank Ripper		Shift Basis:	1 per da	ny
					Data Source:	(CRG))
	Cost Breakdown:						
					Utilization %		
		Ownership (Cost/Hour:	\$496.62	NA		
	D:	Operating (Cost/Hour:	\$324.90	100		
	Ripper	Ownership (Cost/Hour:	\$27.44	<u>NA</u>		
	Кірре	operating C	LOST/HOUR:	\$10.05	<u>100</u>		
		Total Unit (Cost/Hour:	\$38.39 \$904.20	NA		
				φ 70-. 20			
		Total Fleet (Cost/Hour: \$3,61	6.78			
	MATERIAL QU	J ANTITIE	<u>S</u> Sele	cted estimating 1	method: Seismic		
	Alternate Methods	<u>:</u>					
Seismic:	462,720	BCY	Bank Volume:	462,720	BCY	Midran	ge
Area:	NA	acres	Rip Depth (ft):	NA	Volume: NA		BCY or CCY
		Source of est	imated quantity: Maps 1	9 and 23			
	HOURI V PRO	DUCTION	1 J <u> </u>				
	Seismic:		Saismia Valoaitus	2 500	fact/second		
			Seisinic velocity.	5,500	leet/second		
	Area:						
		Avera	ige Ripping Depth:	NA	feet/pass		
		Avera	ige Ripping Width:	NA NA	feet/pass		
		Averag	ge Ripping Lengui:	NA NA	feet/pass		
		Avera	re Maneuver Time:	NA	icct/initiate minutes/nass		
		Produ	ction per unit area:	NA	acres/hour		
	Job Condition Cor	rection Facto	rs				
	Uno	diusted Hour	V Unit Production:	2 490 40	Cu vde /br		
	Ulla	ujusicu 110ul		2,+90.+0			
			Site Altitude:	7,600	teet		
			Ainiude Adj:	0.93	(CAI HB)		
			Net Correction:	0.85	(1 sint/day) multiplier		
		۰	d Housely Halt Day 1	1.000.24			
		Adjuste	d Hourly Unit Production:	<u>1,922.34</u> 7.689.36	Cu. yds./hr Cu. yds./hr		
	IOR TIME AND	D COST			0.0. j 0.0./ m		
							
	Fleet size:	4	Grader(s)	Total job time	: 60.18		Hours
	Unit cost:	\$0.470	Per cu. vd.	Total job cost	: \$217.64	16	

	Task description:	Rip	Coal Stockpile Area				
Site	: <u>Colowyo Coa</u> l	l Mine	Permit Action:	MT9	Perm	it/Job#: <u>C19</u>	81019
	PROJECT ID	ENTIFICATI	<u>ON</u>				
	Task #: 020	5	State: Colorado		Abbrevi	ation: None	
	Date: $3/1$	1/2025	County: Moffat		File	name: 026	
	User: HR	R1					
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT C	<u>OST</u>				
	Basic	Machine: Ca	t D11T - 11U		Horsepower:	850	
	Ripper Att	achment: 1-S	Shank Ripper		Shift Basis:	1 per day	
			**		Data Source:	(CRG)	
	Cost Breakdown	:					
		-			Utilization %		
		Ownership C	ost/Hour:	\$496.62	NA		
		Operating C	ost/Hour:	\$324.90	100		
	Ripp	er Ownership C	ost/Hour:	\$27.44	NA		
	Ripj	per Operating C	ost/Hour:	\$16.65	100		
		Operator C	ost/Hour:	\$38.59	NA		
		Total Unit C	ost/Hour:	\$904.20			
		Total Fleet C	ost/Hour: \$904	.20			
	MATERIAL (MIANTITIES	0.1	. 1	.1 1 4		
		VANTILS	Sele	cted estimating	method: Area		
	Alternate Method	<u>ls:</u>					
Seismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	2.50	acres	Rip Depth (ft):	2.00	Volume: 8,06	57	BCY or CCY
		Source of esti	mated quantity: Maps 19	9 and 23			
		ODUCTION	1 ,				
	HOURLY PRO	<u>DUCTION</u>					
	Seismic:						
			Seismic Velocity:	NA	feet/second		
	Area:						
		Averag	ge Ripping Depth:	2.00	feet/pass		
		Averag	e Ripping Width:	7.94	feet/pass		
		Average	e Ripping Length:	250.00	feet/pass		
		Aver	age Dozer Speed:	88.00	feet/minute		
		Average	e Maneuver Time:	0.25	minutes/pas	SS	
		Produc	tion per unit area:	0.885	acres/hour		
	Job Condition Co	prrection Factors	<u>5</u>				
	Un	adjusted Hourly	Unit Production:	0.885	Acres/hr		
			Site Altitude:	7,600	feet		
			Altitude Adj:	0.93	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.77	multiplier		
		Adjusted	Hourly Unit Production	0.68	Acres/hr		
		Adjusted	Hourly Fleet Production:	0.68	Acres/hr		
	JOB TIME AN	ND COST	-				
	Fleet size:	1	Grader(s)	Total iob time	e: 3.60	6	Hours
		¢1224.227		T. (.1.' 1			
	Unit cost:	\$1324.237	Per acre	Total job cos	t: \$3,3]	1	

Site: <u>(</u> <u>PR</u>	Colowyo Coal Mine COJECT IDENTIF Task #: 027	Permit A	Action: MT9	р. ·		
<u>PR</u>	ROJECT IDENTIF Task #: 027	ICATION		Permi	t/Job#: <u>C1981</u>	019
Ţ	Task #: 027					
		State: Co	olorado	Abbrevia	ation: None	
	Date: $3/11/2025$	County: M	offat	Filen	ame: 027	
	User: HR1					
	Agency or orga	nization name: DRMS				
HC	OURLY EQUIPMI	ENT COST				
	Basic Machine	e: <u>Cat D11T - 11U</u>		Horsepower:	850	
	Ripper Attachmen	t: 1-Shank Ripper		Shift Basis:	1 per day	
				Data Source:	(CRG)	
Cos	st Breakdown:			TTIII I		
	Our	archin Cost/Hour	\$106 67	Utilization %		
	Oper	rating Cost/Hour:	\$324.90	100		
	Ripper Owne	ership Cost/Hour:	\$27.44	NA		
	Ripper Oper	rating Cost/Hour:	\$16.65	100		
	Öpe	erator Cost/Hour:	\$38.59	NA		
	Tota	l Unit Cost/Hour:	\$904.20	_		
	Total	Fleet Cost/Hour:	\$3,616.78			
M	ATERIAL QUANT	TITIES	Selected estimation	ng method Seismic		
Alt	ternate Methods:		beleeted estimati			
ismic: 7	7 <i>422</i> B	CV Bank Vc	Jume: 7/122	BCV	Midrange	
Area: N	\overline{NA} ac	tres Rip Dept	h (ft): NA	Volume: NA	Whatange	BCY or C
	Sourc	e of estimated quantity.	Map 19			-
Ч						
<u>nc</u>		<u>HON</u>				
Sei	<u>Ismic:</u>	Seismic Velocity:	3 500	feet/second		
		Seisinie Velocity.				
<u>Are</u>	ea:		NT A	C		
		Average Ripping Depth:	NA	feet/pass		
		Average Ripping Width.	NA	feet/pass		
		Average Dozer Speed:	NA	feet/minute		
		Average Maneuver Time:	NA	minutes/pas	S	
		Production per unit area:	NA	acres/hour		
Job	Condition Correction	n Factors				
	Unadjusted	l Hourly Unit Production:	2,490.40	Cu. yds./hr		
		Site Altitude:	7,600	feet		
		Altitude Adj:	0.93	(CAT HB)		
		Lab Efficiences	0.83	(1 shift/day)	1	
		JOB Efficiency:	0.77	multiplier		
		Net Correction:	0.77	manupitor		
	A	Net Correction:	luction: 1,922.34	4 Cu. yds./hr		
	A	Net Correction: Adjusted Hourly Unit Prod djusted Hourly Fleet Prod	luction: 1,922.3 luction: 7,689.3	4 Cu. yds./hr 6 Cu. yds./hr		
<u>10</u>	A A DB TIME AND CO	Adjusted Hourly Unit Proc djusted Hourly Fleet Prod	luction: <u>1,922.3</u> luction: 7,689.3	4 Cu. yds./hr 6 Cu. yds./hr		
<u>10</u>	A A DB TIME AND CO Fleet size:4	Job Efficiency: Net Correction: Adjusted Hourly Unit Proc djusted Hourly Fleet Proc ST Grader(s)	luction: <u>1,922.3</u> luction: 7,689.3 Total job ti	4 Cu. yds./hr 6 Cu. yds./hr ime: 0.97	Н	ours

	Task description:	Rip	Haul Road A and Haul R	load B			
Site:	Colowyo Coal	Mine	Permit Action:	MT9	Perm	it/Job#: <u>C1</u>	981019
	PROJECT IDE	NTIFICATI	<u>ON</u>				
	Task #: 028		State: Colorado		Abbrevi	ation: No	ne
	Date: $3/11$	/2025	County: Moffat		File	name: 028	3
	User: HR1	l					
	Agency	or organization	name: DRMS				
	HOURLY EQU	IPMENT CO	<u>DST</u>				
	Basic M	Iachine: Cat	D11T - 11U		Horsepower:	850	
	Ripper Atta	chment: <u>1-S</u>	hank Ripper		Shift Basis:	1 per da	у
					Data Source:	(CRG))
	Cost Breakdown:						
					Utilization %		
		Ownership Co	ost/Hour:	\$496.62	NA		
	D.	Operating Co	ost/Hour:	\$324.90	100		
	Ripper	r Ownership Co	Ost/Hour:	\$27.44	<u>NA</u>		
	Кірре	Operator Co	ost/Hour:	\$10.03	<u> </u>		
		Total Unit Co	ost/Hour:	\$904.20			
				¢>01.20			
		Total Fleet Co	ost/Hour: \$3,61	6.78			
	MATERIAL Q	UANTITIES	Sele	cted estimating	method: Seismic		
	Alternate Methods	8:		C			
nia	24 200	- PCV	Dank Volumo	24 200	PCV	Midron	20
nne. rea	 NA	BC I	$\frac{\text{Dalik Volume.}}{\text{Rin Denth (ft)}}$	24,200 NA	Volume [,] NA	Minuraliş	BCY or
				The second secon			
		Source of estir	nated quantity: Division	n Estimate			
	HOURLY PRO	DUCTION					
	Seismic:						
		S	Seismic Velocity:	3,500	feet/second		
	Area						
	<u>1 110a.</u>	Averag	e Ripping Depth:	NA	feet/pass		
		Averag	e Ripping Width:	NA	feet/pass		
		Average	Ripping Length:	NA	feet/pass		
		Avera	age Dozer Speed:	NA	feet/minute		
		Average	Maneuver Time:	NA	minutes/pas	SS	
		Product	tion per unit area:	NA	acres/hour		
	Job Condition Cor	rection Factors					
	Una	djusted Hourly	Unit Production:	2,490.40	Cu. yds./hr		
			Site Altitude:	7,600	feet		
			Altitude Adj:	0.93	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.77	multiplier		
		Adjusted	Hourly Unit Production:	1,922.34	Cu. yds./hr		
		Adjusted	Hourly Fleet Production:	7,689.36	Cu. yds./hr		
	JOB TIME AN	D COST					
	Fleet size:	4	Grader(s)	Total job time	e: <u>3.15</u>	5	Hours
	Unit cost:	\$0.470	Per cu_vd	Total job cos	t· \$11.3	83	
	Unit cost:	\$0.470	Per cu. yd.	Total job cos	t: \$11,3	83	

Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	ICATION				
Task #: 029	State:	Colorado		Abbreviation:	None
Date: $3/11/2025$	County:	Moffat		Filename:	029
User: HR1					
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: <u>Uni</u>	versal				
Attachment: NA					
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$334.55	NA		
Operating Cost/Hour:		\$260.65	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
Total unit Cost/Hour:	\$633.79				
Total Fleet Cost/Hour:	\$633.79				
MATERIAL QUANT Initial Volume: 642 Swell factor: 1000	ITIES				
MATERIAL QUANTInitial Volume:642Swell factor:1.000Loose volume:642	ITIES 0 LCY				
MATERIAL QUANTInitial Volume:642Swell factor:1.000Loose volume:642Source of estimated volume	ITIES 0 LCY ne: Exhibit 7-		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 I Source of estimated volum Source of estimated swell	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 Source of estimated volum Source of estimated swell HOURLY PRODUCT	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand		1, Exh. 7-item 23, Fig. B	<u>-1</u>	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 Source of estimated volur Source of estimated swell HOURLY PRODUCT	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION		1, Exh. 7-item 23, Fig. B 	- <u>1</u>	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642] Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION 50 feet time		1, Exh. 7-item 23, Fig. B 	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	ITIES 0 LCY ne: Exhibit 7- Cat Hand factor: Cat Hand CION 50 feet ction: 4,589.5 LC		1, Exh. 7-item 23, Fig. B 	<u>-1</u>	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 1 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destribution	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION CION ction: 50 feet ction: 4,589.5 LC cription: Compa		1, Exh. 7-item 23, Fig. B mbankment 0.9	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 1 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION ction: 50 feet ction: 4,589.5 LC cription: Compa -5 %		1, Exh. 7-item 23, Fig. B mbankment 0.9	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 1 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION Store 50 feet ction: 4,589.5 LC' cription: Compa -5 % 7,500 feet		1, Exh. 7-item 23, Fig. B mbankment 0.9	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 1 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight:	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION ction: 50 feet ction: 4,589.5 LC cription: Compa -5 % 7,500 feet 2,650 lbs/LCY		1, Exh. 7-item 23, Fig. B mbankment 0.9	<u>-1</u>	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight: Weight description:	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION ction: 50 feet		1, Exh. 7-item 23, Fig. B mbankment 0.9	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642] Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	ITIES 0 LCY ne: Exhibit 7: factor: Cat Hand CION ction: 50 feet ction: 4,589.5 LC cription: Compa -5 % 7,500 feet 2,650 lbs/LCY Decomposed rock Factor Factor		1, Exh. 7-item 23, Fig. B mbankment 0.9 , 75% Earth Source	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 1 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION State 50 feet cription: 4,589.5 LC' cription: Compa -5 % 7,500 feet 2,650 lbs/LCY Decomposed rock Factor 0.		1, Exh. 7-item 23, Fig. B mbankment 0.9	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistent	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION State 50 feet cription: 4,589.5 LC cription: Compa -5 % 7,500 feet 2,650 lbs/LCY Decomposed rock Factor Skill: 0. ency: 0.		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUANT Initial Volume: 642 Swell factor: 1.000 Loose volume: 642 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistence	ITIES 0 LCY ne: Exhibit 7- factor: Cat Hand CION 50 feet ction: $4,589.5$ LC cription: Compa -5% $7,500$ feet 2,650 lbs/LCY Decomposed rock Factor Skill: 0. ency: 0. 0. thod: 1. 1.		1, Exh. 7-item 23, Fig. B	-1	

Task # 029

Job efficient	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.115	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	nt: 0.868	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4338	
Adjusted unit production:	1,990.93 LCY/hr	
Adjusted fleet production:	1990.93 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.318/LCY

Total job time:	0.32 Hours
Total job cost:	\$204

	Task description:	Rip	Gossard Loadout Road						
Site:	: Colowyo Coal	Mine	Permit Action:	MT9	Permit/	Job#: <u>C1981019</u>)		
	PROJECT IDE	ENTIFICAT	<u>ION</u>						
	Task #: 030 Date: $3/1$ User:HR	1/2025 1	State: <u>Colorado</u> County: <u>Moffat</u>		Abbreviati Filena	on: <u>None</u> me: <u>030</u>			
	Agency	or organization	n name: DRMS						
	HOURLY EQU	JIPMENT C	<u>OST</u>						
	Basic M Ripper Atta	Machine: <u>Ca</u> achment: <u>1-</u>	tt D11T - 11U Shank Ripper		Horsepower: Shift Basis: Data Source:	850 1 per day (CRG)			
	Cost Breakdown:								
		Ownership (lost/Hour	\$406.62	Utilization %				
		Operating C	Cost/Hour:	\$324.90	100				
	Rippe	r Ownership C	Cost/Hour:	\$27.44	NA				
	Ripp	er Operating C	Cost/Hour:	\$16.65	100				
		Operator C	Cost/Hour:	\$38.59	NA				
		Total Unit C	Cost/Hour:	\$904.20					
		Total Fleet C	Cost/Hour: \$3,61	6.78					
	MATERIAL Q	UANTITIES	Sele	cted estimating	method: Seismic				
	Alternate Method	<u>s:</u>							
mic:	9,700	BCY	Bank Volume:	9,700	BCY	Midrange			
Area:	NA	acres	Rip Depth (ft):	NA	Volume: NA	1	BCY or		
		Source of esti	imated quantity: Divisio	n Estimate					
	HOURLY PRO	DUCTION							
	Seismic:								
	<u>Seisinie.</u>		Seismic Velocity:	3,500	feet/second				
	A #0.01			- ,					
	<u>Alea:</u>	Avera	ge Rinning Denth	NA	feet/nass				
		Avera	ge Ripping Width:	NA	feet/pass				
		Averag	e Ripping Length:	NA	feet/pass				
		Ave	rage Dozer Speed:	NA	feet/minute				
		Averag	e Maneuver Time:	NA	minutes/pass				
		Produc	ction per unit area:	NA	acres/hour				
	Job Condition Correction Factors								
	Una	adjusted Hourl	y Unit Production:	2,490.40	Cu. yds./hr				
			Site Altitude:	7,600	feet				
			Altitude Adj:	0.93	(CAT HB)				
			Job Efficiency:	0.83	(1 shift/day)				
			Net Correction:	0.77	multiplier				
		Adjusted	Hourly Unit Production:	1,922.34	Cu. yds./hr				
		Adjusted	Hourly Fleet Production:	7,689.36	Cu. yds./hr				
	JOB TIME AN	D COST							
	Fleet size:	4	Grader(s)	Total job time	e: <u>1.26</u>	Hou	rs		
	Unit cost:	\$0.470	Per cu. yd.	Total job cost	t: \$4,563				

Task description:	Regrade Gossard	Loadout R	oad		
Colowyo Coal Mine	Perm	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #· 031	State:	Colorado		Abbreviation.	None
Date: $3/11/2025$	County:	Moffat		Filename:	031
User: HR1			_	· · · · · ·	
Agency or organ	nization name:	MS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	: D11T - 11U				
Horsepower: 850)				
Blade Type: Un	iversal		_		
Attachment: <u>1-sl</u>	hank ripper				
Shift Basis: <u>1 p</u>	er day				
Data Source: (Ch	(G)		_		
Cost Breakdown:		1			
o 11 o m			Utilization %		
Ownership Cost/Hour:		\$334.55	NA		
Operating Cost/Hour:		\$260.65	<u>100</u>		
Ripper own. Cost/Hour:		\$36.40	NA		
Conservation Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
Total Fleet Cost/Hour:	\$2,680.74				
<u>MATERIAL QUANI</u>	<u>TTIES</u>				
Initial Volume: 9,70	0				
Swell factor: 1.00	0				
Loose volume: 9,70	0 LCY				
Source of estimated volu	me: Division o	f Reclamati	on. Mining & Safety		
Source of estimated votal	l factor: Cat Handb	ook			
HOURLY PRODUCT	ΓΙΟΝ				
Average nuch distance	100 feet				
Unadjusted hourly produce	$\frac{1001001}{287031CV}$	/hr			
Chadjusted hourry produc	<u>2,070.5 LC 1</u>	/111			
Materials consistency des	scription: Compac	ted fill or en	nbankment 0.9		
Average push gradient: Average site altitude:	0 % 7,600 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock -	50% Rock,	50% Earth		
Job Condition Correction	Factor		Source		
Operator	Factor				
Operator	Skill: 0.9	000	(AB.AVG.)		
Material consist	Skill: 0.9 ency: 0.9	000	(AB.AVG.) (CAT HB))		
Material consist Dozing me	Skill: 0.9 ency: 0.9 thod: 1.0	000 000 000	(AB.AVG.) (CAT HB)) (GEN.)		

Task # 031

Job efficiend	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	1.000	(DOZ-OC)
Push gradie	Push gradient:		(CAT HB)
Altitude:		0.930	(CAT HB)
Material Weight: Blade type:		0.793	(CAT HB)
		1.000	(PAT)
Net correction	on:	0.4958	
Adjusted unit production:	1,4	423.09 LCY/hr	
Adjusted fleet production: 56		92.36 LCY/hr	
	_		

Fleet size:	4 Dozer(s)
Unit cost:	\$0.471/LCY

Total job time:	1.70 Hours
Total job cost:	\$4,568

SITE MAINTENANCE

T Site:	Cask description: Colowyo Coal Mine	"Mine" Ripi	rap from South Permit Action:	Taylor Pit MT9	Temporary Stockpiles for Permit/J	r [ob#:		
PROJE(CT IDENTIFICATIO	<u>N</u>						
Task #: Date: User:	032 3/11/2025 HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 032		
Agency or organization name: DRMS								

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Loader for Riprap	667.00	CAT 992K	667.00	EA	\$537.91	\$358,785.97
Segregation						
Dozer for Riprap	667.00	Cat D11T - 11U	667.00	EA	\$860.11	\$573,693.37
Segregation						
Haul Trucks for	1334.00	Cat 777F	1,334.00	EA	\$377.15	\$503,118.10
Riprap Segregation						
Excavator for Riprap	667.00	Cat 345D L 12'-10"	667.00	EA	\$196.64	\$131,158.88
Segregation		Stick				

Job Hours: 0.00

Total Cost: \$1,566,756.32

Task description:	Regrade Prospe	et Pond			
Colowyo Coal Min	ne Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENT	IFICATION				
Task #: 033	State:	Colorado		Abbreviation:	None
Date: 3/11/202	25 County:	Moffat		Filename:	033
User: HR1					
Agency or or	rganization name:	RMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D9T - 9SU				
Horsepower:	405				
Blade Type:	Semi-Universal				
Attachment:	3-shank ripper		_		
Shift Basis:	l per day				
Data Source:	(UKG)				
Cost Breakdown:					
		***	Utilization %		
Ownership Cost/Hou	ır:	\$238.76	NA		
Operating Cost/Hot	Ir:	\$162.29	100		
Ripper own. Cost/Hot	Ir:	\$18.32	NA		
Cost/Hot	····	\$2.23	23		
Operator Cost/Hot	II	\$30.39	NA		
MATERIAL QUA Initial Volume: <u>1</u>	<u>NTITIES</u> 0,291				
Swell factor: 1 Loose volume: 1	.165 1,989 LCY				
Source of estimated ve	olume: Division	of Reclamati	on, Mining & Safety		
Source of estimated sy	vell factor: <u>Cat Hand</u>	book			
HOURLY PRODU	CTION				
Average push distance	2: 150 feet				
Unadjusted hourly pro	duction: 910.5 LCY	/hr			
Materials consistency	description: <u>Compa</u>	icted fill or ei	mbankment 0.9		
Average push gradien	t: <u>5 %</u>				
Average site altitude:	/,600 teet				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock	- 50% Rock,	50% Earth		
Job Condition Correct	ion Factor		<u>Source</u>		
Operat	or Skill: 0	.900	(AB.AVG.)		
Material con	•	000			
D ·	sistency: 0.	.900	(CAT HB))		
Dozing	sistency: 0. method: 1.	.900	(CAT HB)) (GEN.)		

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	it: 0.903	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 0.793	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n:0.3851	
Adjusted unit production:	350.63 LCY/hr	
Adjusted fleet production:	350.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.312/LCY

Total job time:	34.19 Hours
Total job cost:	\$15,736

Colowyo Coal Mine				
	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION			
Task #: 035	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	C019-035
User: HR1			-	
Agency or orga	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	t D9T - 9SU			
Horsepower: 405	5			
Blade Type: Ser	mi-Universal			
Attachment: 3-s	hank ripper			
Shift Basis: 1 p	er day			
Data Source: (CI	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	NA		
MATERIAL QUANT				
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16	55			
MATERIAL QUANTInitial Volume:687Swell factor:1.16Loose volume:800	5 LCY			
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated swel	55 LCY me: Division of Reclamat l factor: Cat Handbook	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated swel HOURLY PRODUCT	55 LCY me: Division of Reclamat l factor: Cat Handbook	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	55 LCY me: Division of Reclamat 1 factor: Cat Handbook TION 150 feet	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu swel HOURLY PRODUCT Average push distance: Unadjusted hourly product 100	55 LCY me: Division of Reclamat 1 factor: Cat Handbook FION 150 feet ction: 910.5 LCY/hr	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu swel MOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency destance	55 LCY me: Division of Reclamat 1 factor: Cat Handbook TION ction: 150 feet ction: 910.5 LCY/hr scription: Compacted fill or e	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude:	55 LCY me: Division of Reclamat 1 factor: Cat Handbook TION ction: 910.5 LCY/hr scription: Compacted fill or e 5 % 7,600 feet	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency destance: Average push gradient: Average site altitude: Material weight:	55 LCY me: Division of Reclamat l factor: Cat Handbook TION ction: 910.5 LCY/hr scription: Compacted fill or e 5 % 7,600 feet 2,900 lbs/LCY	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC' Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	55 LCY me: Division of Reclamat l factor: Cat Handbook TION ction: 910.5 LCY/hr scription: Compacted fill or e 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	55 LCY me: Division of Reclamat 1 factor: Cat Handbook FION ction: 150 feet ction: 910.5 LCY/hr scription: Compacted fill or et 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock h Factor 1	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	55 LCY me: Division of Reclamat l factor: Cat Handbook FION ction: 910.5 LCY/hr scription: Compacted fill or e 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock Factor Skill: 0.900	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	$\frac{111125}{55}$ $\frac{150}{LCY}$ me: Division of Reclamat 1 factor: Cat Handbook $\frac{1100}{150 \text{ feet}}$ $\frac{150 \text{ feet}}{150 \text{ feet}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\frac{2,900 \text{ lbs/LCY}}{1600 \text{ feet}}$ $\frac{150 \text{ feet}}{1600 \text{ feet}}$ $\frac{5 \%}{1000 \text{ feet}}$ $\frac{5 \%}{1000 \text{ feet}}$ $\frac{5 \%}{1000 \text{ feet}}$ $\frac{1000 \text{ feet}}{1000 \text{ feet}}$	tion, Mining & Safety		
MATERIAL QUANT Initial Volume: 687 Swell factor: 1.16 Loose volume: 800 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	ITTES 55	tion, Mining & Safety		

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pile:		0.800		(FND-RF)
Push gradient:		0.903		(CAT HB)
Altitude:		1.000		(CAT HB)
Material Weight:		0.793		(CAT HB)
Blade type:		1.000		(PAT)
Net correction:		.3851		
Adjusted unit production:	350.6	3 LCY/hr		
Adjusted fleet production: 35		3 LCY/hr		

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	2.28 Hours
Total job cost:	\$1,089

Page 1 of 2

Task description:	Regrade Rail Loop Pond			
Colowyo Coal Mine	Permit Action:	ИТ9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION			
Task #: 036	State: Colorado		Abbreviation:	None
Date: $3/12/2025$	County: Moffat		Filename:	036
User: HR1	,			
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405				
Blade Type: Sen	ni-Universal			
Attachment: <u>3-sh</u>	ank ripper			
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CR	.G)			
Cost Breakdown:				
_		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
		37.4		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$38.59 \$477.26 \$477.26 ITIES	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>298</u> Swell factor: <u>1.16</u>	\$38.59 \$477.26 \$477.26 ITIES	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 298 Swell factor: 1.165 Loose volume: 347	\$38.59 \$477.26 \$477.26 ITIES 5 LCY	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.160 Loose volume: 347 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$38.59 \$477.26 \$477.26 ITIES <u>5</u> <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook	 n, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.169 Loose volume: 347 J Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$38.59 \$477.26 \$477.26 ITIES 5 <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook ION	 n, Mining & Safety 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.163 Loose volume: 347 I Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$38.59 \$477.26 \$477.26 ITIES 5 CCY ne: Division of Reclamation factor: Cat Handbook CION 150 feet tion: 010.5 LCV/br	 n, Mining & Safety 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.162 Loose volume: 347 I Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$38.59 \$477.26 \$477.26 ITIES 5 CCY ne: Division of Reclamation factor: Cat Handbook TON 150 feet tion: 910.5 LCY/hr			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.162 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$38.59 \$477.26 \$477.26 ITIES <u>5</u> <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook TON <u>150 feet</u> etion: <u>910.5 LCY/hr</u> cription: Compacted fill or emb			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.163 Loose volume: 347 J Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	\$38.59 \$477.26 \$477.26 ITIES 5 <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook CION <u>150 feet</u> tion: 910.5 LCY/hr cription: Compacted fill or emb <u>5 %</u> 7,600 feet			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.163 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight:	\$38.59 \$477.26 \$477.26 ITIES 5 <u>CY</u> ne: Division of Reclamation factor: Cat Handbook ION <u>150 feet</u> tion: 910.5 LCY/hr cription: Compacted fill or emb <u>5 %</u> 7,600 feet 2,900 lbs/LCY			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.165 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$38.59 \$477.26 \$477.26 ITIES 5 <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook ION <u>150 feet</u> cription: <u>150 feet</u> <u>150 feet</u> <u>5 %</u> 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, 5			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.162 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$38.59 \$477.26 \$477.26 ITIES <u>5</u> <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook <u>150 feet</u> tion: 910.5 LCY/hr cription: Compacted fill or emb <u>5 %</u> 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, 5 Factor	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.162 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$38.59 \$477.26 \$477.26 \$477.26 ITIES <u>5</u> <u>CCY</u> ne: Division of Reclamation factor: Cat Handbook ION <u>150 feet</u> tion: <u>910.5 LCY/hr</u> cription: <u>Compacted fill or emb <u>5 %</u> <u>7,600 feet</u> <u>2,900 lbs/LCY</u> Decomposed rock - 50% Rock, 5 <u>Factor</u> Skill: <u>0.900</u></u>	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.163 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated volur Materials consistency des Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	\$38.59 \$477.26 \$477.26 \$477.26 ITIES 5 CY ne: Division of Reclamation factor: Cat Handbook ION 150 feet 910.5 LCY/hr cription: 910.5 LCY/hr cription: Compacted fill or emb 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, 5 <u>Factor</u> Skill: 0.900 ency: 0.900	NA NA NA NA NA NA NA Safety NA NA Safety (AB.AVG.) (CAT HB))		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 298 Swell factor: 1.165 Loose volume: 347 I Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated volur Materials consistency des Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste Dozing met	\$38.59 \$477.26 \$477.26 Second State Second State Se	NA NA NA NA NA NA NA Safety NA NA NA Safety (AB.AVG.) (CAT HB)) (GEN.)		

Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3851	

Adjusted unit production:	350.63 LCY/hr
Adjusted fleet production:	350.63 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	0.99 Hours
Total job cost:	\$473

Task description:	Regraue Sewage and Aeration	i i unu		
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION			
Task #: 037	State: Colorado		Abbreviation:	None
Date: $3/12/2025$	County: Moffat		Filename:	037
User: HR1			-	
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine: Cat	D9T - 9SU	_		
Horsepower: 405		_		
Blade Type: Sem	ni-Universal	_		
Attachment: <u>3-sh</u>	ank ripper	_		
Shift Basis: <u>I pe</u>	er day	_		
Data Source: (CR	.0)	_		
Cost Breakdown:	1			
	¢252.15	<u>Utilization %</u>		
Ownership Cost/Hour:	\$253.16	NA 100		
Pipper own Cost/Hour:	\$104.55	100NA		
Ripper on Cost/Hour	\$13.79	25		
Operator Cost/Hour:	\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$477.26 \$477.26 ITIES			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:	\$477.26 \$477.26 <u>ITIES</u>			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512	\$477.26 \$477.26 ITIES 3 5 2 LCY			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volum Source of estimated swell	\$477.26 \$477.26 ITIES 3 5 2 LCY ne: Division of Reclamation factor: Cat Handbook	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$477.26 \$477.26 ITIES 3 5 2 LCY ne: Division of Reclamation factor: Cat Handbook	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$477.26 \$477.26 ITIES 3 2 LCY ne: Division of Reclamatio factor: Cat Handbook ION _150 feet	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$477.26 \$477.26 ITIES 3 5 2 LCY ne: Division of Reclamation factor: Cat Handbook 'ION 150 feet 910.5 LCY/hr	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$477.26 \$477.26 ITIES 3 5 2 LCY ne: Division of Reclamation factor: Cat Handbook ION tion: 150 feet tion: 910.5 LCY/hr cription: Compacted fill or em	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	\$477.26 \$477.26 ITIES 3 3 2 LCY ne: Division of Reclamation factor: Cat Handbook ION tion: 150 feet 910.5 LCY/hr cription: Compacted fill or em 5 % 7 00 f	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	\$477.26 \$477.26 ITIES 3 3 2 LCY ne: Division of Reclamatio factor: Cat Handbook ION tion: 150 feet 910.5 LCY/hr cription: Compacted fill or em 5 % 7,600 feet	on, Mining & Safety		
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Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$477.26 \$477.26 ITIES 3 5 2 LCY ne:	on, Mining & Safety		
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Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.165 Loose volume: 4,512 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$477.26 \$477.26 \$477.26 ITIES 3 5 2 LCY ne: Division of Reclamatio factor: Cat Handbook TON tion: 910.5 LCY/hr cription: Compacted fill or em 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, : Factor Skill: 0.900 may 0.000	bankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 3,873 Swell factor: 1.163 Loose volume: 4,512 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste	\$477.26 \$477.26 \$477.26 ITIES 3 3 2 LCY ne: Division of Reclamation factor: Cat Handbook ION $\frac{150 \text{ feet}}{910.5 \text{ LCY/hr}}$ cription: Compacted fill or em 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, 3 Factor Skill: 0.900 ency: 0.900 bod: 1,000	bankment 0.9		
Job efficiency	: 0.830	(1 SHIFT/DAY)		
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Spoil pile	: 0.800	(FND-RF)		
Push gradient	: 0.903	(CAT HB)		
Altitude	: 1.000	(CAT HB)		
Material Weight	: 0.793	(CAT HB)		
Blade type	: 1.000	(PAT)		
Net correction	: 0.3851			
Adjusted unit production:	350.63 LCY/hr			
Adjusted fleet production:	350.63 LCY/hr			

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	12.87 Hours
Total job cost:	\$6,142

	0			
Colowyo Coal Mine	Permit Action: <u>N</u>	1T9	Permit/Job#:	C1981019
PROJECT IDENTIFICATIO	N			
Task #: 038	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	038
User: HR1				
Agency or organization na	ame: DRMS			
HOURLY EQUIPMENT COS	<u>ST</u>			
Basic Machine: Cat D9T - 9S	U			
Horsepower: 405				
Blade Type: Semi-Univer	sal			
Attachment: 3-shank rippe	er			
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:				
COST DICARGOWII.		Utilization %		
Ownership Cost/Hour	\$253.16	NA		
Operating Cost/Hour	\$164 35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	ΝA		
MATERIAL OUANTITIES				
MATERIAL QUANTITIES Initial Volume: 2,264				
MATERIAL QUANTITIESInitial Volume:2,264Swell factor:1.165				
MATERIAL QUANTITIESInitial Volume:2,264Swell factor:1.165Loose volume:2,638 LCY				
MATERIAL QUANTITIESInitial Volume:2,264Swell factor:1.165Loose volume:2,638 LCYSource of estimated volume:Source of estimated swell factor:	Division of Reclamation	, Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor:	Division of Reclamation Cat Handbook	, Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: HOURLY PRODUCTION 1.105	Division of Reclamation Cat Handbook	, Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: HOURLY PRODUCTION Average push distance: 1	Division of Reclamation Cat Handbook	, Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9	Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr	., Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION 1 Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 1	Division of Reclamation Cat Handbook 50 feet 10.5 LCY/hr _Compacted fill or emb	, Mining & Safety pankment 0.9		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION 4 Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 5 %	Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr Compacted fill or emb	, Mining & Safety pankment 0.9		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION 4 Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 5% Average site altitude: 7,600 fe	Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr Compacted fill or emb	, Mining & Safety pankment 0.9		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 5 % Average site altitude: 7,600 fe Material weight: 2,900 lt	Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr Compacted fill or emb cet cet	, Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 5 % Average site altitude: 7,600 fe Material weight: 2,900 lt Weight description: Decomption	Division of Reclamation Cat Handbook 50 feet 10.5 LCY/hr Compacted fill or emb cet cos/LCY posed rock - 50% Rock, 50	, Mining & Safety pankment 0.9 0% Earth		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 5% Average site altitude: 7,600 fee Material weight: 2,900 lb Weight description: Decompter		., Mining & Safety		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 5% Average site altitude: 7,600 fe Material weight: 2,900 lb Weight description: Decomp Job Condition Correction Factor Operator Skill:	 Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr Compacted fill or emb set os/LCY posed rock - 50% Rock, 50 0.900	, Mining & Safety 		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 9 Average push gradient: 5 % Average site altitude: 7,600 fe Material weight: 2,900 lt Weight description: Decomp Job Condition Correction Factor Operator Skill: Material consistency: 1	Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr Compacted fill or emb eet os/LCY posed rock - 50% Rock, 59 0.900	, Mining & Safety ————————————————————————————————————		
MATERIAL QUANTITIES Initial Volume: 2,264 Swell factor: 1.165 Loose volume: 2,638 LCY Source of estimated volume: Source of estimated swell factor: Source of estimated swell factor: 1 HOURLY PRODUCTION Average push distance: 1 Unadjusted hourly production: 9 Materials consistency description: 9 Average push gradient: 5 % Average site altitude: 7,600 fe Material weight: 2,900 lt Weight description: Decomp Job Condition Correction Factor Operator Skill: Material consistency: 1 Dozing method: 1	Division of Reclamation Cat Handbook 50 feet 010.5 LCY/hr Compacted fill or emb eet 0s/LCY posed rock - 50% Rock, 50 0.900 0.900 1.000	, Mining & Safety ————————————————————————————————————		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3851	
Adjusted unit production: 3	50.63 LCY/hr	
Adjusted fleet production: 3	50.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	7.52 Hours
Total job cost:	\$3,590

	ipuon.		Regrade	wash d	Say Pond				
Colowy	o Coal M	ine		Per	mit Action:	MT9		Permit/Job#	C1981019
PROJEC	<u>T IDEN</u>	TIFICA	ATION						
Task #:	039			State:	Colorado			Abbreviation:	None
Date:	3/12/2	025	C	ounty:	Moffat			Filename:	039
User:	HR1			-					
А	gency or	organiza	tion name	: <u>D</u> F	RMS				
HOURLY	Y EQUI	PMENT	<u>r cost</u>						
Basic M	lachine:	Cat D9)T - 9SU						
Horse	epower:	405							
Blad	e Type:	Semi-U	Jniversal						
Attac	chment:	3-shan	k ripper						
Shif	t Basis:	1 per d	lay						
Data	Source:	(CRG)							
Cost Break	down:					I			
0 1'					0050 1 6		Utilization %		
Ownershi	p Cost/H	our:			\$253.16		<u>NA</u>		
Dippor ouv	lg Cost/H	our:			\$104.33 \$18.70		<u> </u>		
Ripper own	Cost/H	Jul			\$2.37		25		
Operate	r Cost/H	Jul			\$38.50		23		
Operato		Jui			φ30.57		NA		
MATERI	AL QU	ANTIT	<u>IES</u>						
MATERI Initial Vo Swell	AL QUA	ANTIT 11,505 1.165	IES						
MATERI Initial Vo Swell Loose vo	ALQU olume: factor: olume:	ANTIT 11,505 1.165 13,403 1	IES LCY						
MATERI Initial Vo Swell Loose vo Source of e	AL QUA plume: factor: plume: estimated	ANTIT: 11,505 1.165 13,403 I volume:	IES LCY	ivision	of Reclama	tion, Mir	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e	AL QUA blume: factor: blume: estimated	ANTIT: 11,505 1.165 13,403 I volume: swell fac	LCY LCY ctor: Ca	ivision at Hand	of Reclama	tion, Min	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e	AL QUA blume: factor: blume: estimated estimated	ANTIT 11,505 1.165 13,403 I volume: swell fac	LCY LCY ctor: C	ivision at Hand	of Reclama Ibook	tion, Mir	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e HOURLY	AL QUA blume: factor: blume: estimated estimated V PROD ush distan	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce:	IES LCY ctor: D DN 150	ivision at Hand	of Reclama lbook	tion, Mir	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e HOURLY Average pu Unadjusted	AL QUA plume: factor: plume: estimated estimated <u>Y PROD</u> ush distan 1 hourly p	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roductio	$\frac{\text{IES}}{\text{LCY}}$ $\frac{D}{\text{Ctor:}} \frac{D}{C_{1}}$ $\frac{DN}{2}$ $\frac{150}{910}$	ivision at Hand feet 5 LCY	of Reclama lbook	tion, Miı	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e HOURLY Average pu Unadjusted Materials c	AL QUA blume: factor: blume: estimated estimated Y PROD ush distan I hourly p consistenc	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roductio y descrip	$\frac{\text{IES}}{\text{LCY}}$ $\frac{\text{D}}{\text{Ctor:}} \frac{\text{D}}{\text{Ctor}}$ $\frac{150}{910.}$ $\frac{150}{910.}$	ivision at Hand feet 5 LCY, Compa	of Reclama lbook /hr	tion, Mir	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e MURLY Average pu Unadjusted Materials c	AL QUA plume: factor: plume: estimated estimated X PROD ush distan I hourly p consistenc	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roductio y descrip	$\frac{\text{IES}}{\text{LCY}}$ $\frac{\text{D}}{\text{ctor:}} \frac{\text{D}}{\text{Ci}}$ $\frac{150}{910.}$ $\frac{150}{910.}$ $\frac{1}{910.}$	ivision at Hand feet 5 LCY Compa	of Reclama lbook /hr	tion, Min	ning & Safety nent 0.9		
MATERI Initial Vo Swell Loose vo Source of e Source of e Source of e Murce of e Materials c Average pu	AL QUA blume: factor: blume: estimated estimated Y PROD ush distan I hourly p consistence ush gradie	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roduction y descripted ent: <u>5</u>	IES LCY ctor: D Ctor: C: DN n: 910. ption: _ %	ivision at Hand feet 5 LCY Compa	of Reclama Ibook /hr acted fill or	tion, Min	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average pu	AL QUA blume: factor: blume: estimated estimated Y PROD ush distan l hourly p consistenc ush gradie te altitude	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roduction y description ent: 7	IES LCY ctor: D Ctor: C DN 150 n: 910. ption: % 600 feet	ivision at Hand feet 5 LCY, Compa	of Reclama lbook /hr 	tion, Mir	ning & Safety		
MATERI Initial Va Swell Loose va Source of e Source of e Mourely Average pu Unadjusted Materials c Average pu Average sin Material w	AL QUA plume: factor: plume: estimated estimated Y PROD ush distan I hourly p consistence ush gradie te altitude eight:	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roductio y descrip ent: <u>5</u> : <u>7</u>	IES LCY ctor: D Ctor: 0 0N 150 n: 910. ption: % 600 feet ,900 lbs/L	ivision at Hand 5 LCY Compa	 of Reclama lbook /hr 	tion, Min	ning & Safety		
MATERI Initial Vo Swell Loose vo Source of e Source of e Mourely Average pu Unadjusted Materials c Average pu Average sin Material w Weight des	AL QUA plume: factor: plume: estimated estimated X PROD ush distan I hourly p consistence ush gradie te altitude eight: scription:	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roduction y descript ent: <u>5</u> :: <u>7</u> 2 	IES LCY ctor: D ctor: 0 0N 150 n: 910. ption: %	ivision at Hand 5 LCY Compa		tion, Min 	ning & Safety nent 0.9		
MATERI Initial Vo Swell Loose vo Source of e Source of e Source of e Muterials c Average pu Average pu Average sin Material w Weight des Job Condit	AL QUA Dume: factor: Dume: estimated estimated Y PROD ush distan I hourly p consistenc ush gradie te altitude eight: scription: <u>ion Corre</u>	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roduction y descrip ent: <u>5</u> : <u>7</u> <u>2</u> <u>C</u> ction Fac	IES LCY ctor: D ctor: C DN n: 910. ption: % ,600 feet ,900 lbs/L Decompose	ivision at Hand 5 LCY, Compa .CY ed rock	of Reclama lbook /hr hcted fill or	tion, Min	ning & Safety nent 0.9 Carth		
MATERI Initial Va Swell Loose va Source of e Source of e HOURLY Average pu Unadjusted Materials c Average pu Average sit Material w Weight des Job Condit	AL QUA Dume: factor: Dume: estimated estimated Y PROD ush distan I hourly p consistenc ush gradie te altitude eight: scription: <u>ion Corre</u> Oper	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roductio y descrip ent: <u>5</u> :: <u>7</u> <u>2</u> <u>ction Fac</u> ator Skil	IES LCY ctor: D ctor: C DN n: 910. ption: _ %	ivision at Hand feet 5 LCY, Compa .CY ed rock	of Reclama lbook /hr hcted fill or - 50% Rocl	tion, Mir embankr 	ning & Safety nent 0.9 Earth (AB.AVG.)		
MATERI Initial Va Swell Loose va Source of e Source of e Source of e Mourely Average pu Unadjusted Materials c Average pu Average sin Material w Weight des Job Condit	AL QUA olume: factor: olume: estimated estimated X PROD ush distan I hourly p consistence ush gradie te altitude eight: scription: <u>ion Corre</u> Oper faterial co	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roductio y descrip ent: <u>5</u> <u>7</u> <u>2</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u>	IES LCY ctor: D ctor: D 0N 150 n: 910. ption: ,600 feet ,900 lbs/L Decompose ctor u:	ivision at Hand feet 5 LCY Compa .CY ed rock 0. 0.		tion, Min	nent 0.9 Carth (AB.AVG.) (CAT HB))		
MATERI Initial Vo Swell Loose vo Source of e Source of e Source of e Muterials c Average pu Average si Material w Weight des Job Condit	AL QUA plume: factor: plume: estimated estimated Y PROD ush distand hourly present tonsistence ush gradie te altitude eight: scription: <u>ion Corre</u> Open faterial co Dozin	ANTIT 11,505 1.165 13,403 I volume: swell fac UCTIC ce: roduction y descript ent: <u>5</u> : <u>7</u> 2 <u>ction Fac</u> ator Skill nsistency g methoo	IES LCY ctor: D ctor: 0 n: 910. ption: ,600 feet ,900 lbs/L ,900 lbs/L Decompose ctor ll: y:	ivision at Hand 5 LCY Compa .CY ed rock 0. 0. 1.		tion, Min 	nent 0.9 Carth Carth (AB.AVG.) (CAT HB)) (GEN.)		

Job efficiency	: 0.830	(1 SHIFT/DAY)
Spoil pile	: 0.800	(FND-RF)
Push gradient	: 0.903	(CAT HB)
Altitude	: 1.000	(CAT HB)
Material Weight	: 0.793	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	: 0.3851	
Adjusted unit production:	350.63 LCY/hr	
Adjusted fleet production:	350.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	38.23 Hours
Total job cost:	\$18,244

deserrption.	Regrade wash	Day Seumen	t Sump		
Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTI	FICATION				
Task #· 040	State:	Colorado		Abbreviation.	None
Date: $3/12/2025$	5 County:	Moffat		Filename:	040
User: HR1	County:			<u>-</u>	0.0
Agency or org	anization name: D	RMS			
HOURLY EQUIPM	IENT COST				
Basic Machine: C	at D9T - 9SU				
Horsepower: 40	05				
Blade Type: Se	emi-Universal				
Attachment: 3-	-shank ripper				
Shift Basis: 1	per day				
Data Source: (0	CRG)		_		
Cost Breakdown:		I			
Oran analy Cont/II		¢052.16	Utilization %		
Ownersnip Cost/Hour:		\$255.10	<u>NA</u>		
Operating Cost/Hour:	•	\$104.33 \$19.70	100 NTA		
Ripper own. Cost/Hour:	·	\$18.79 \$2.27	<u>NA</u> 25		
Organization Cost/Hours	•	\$2.37 \$29.50	23		
Operator Cost/Hour	: 	\$38.59	NA		
Total Fleet Cost/Hour:	\$477.26 \$477.26				
Item unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 530	<u>\$477.26</u> \$477.26 TITIES 6				
Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 530 Swell factor: 1.1 Loose volume: 620	<u>\$477.26</u> \$477.26 [TITIES 6 165 4 LCY				
Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 530 Swell factor: 1.1 Loose volume: 620 Source of estimated vol Source of estimated sweet HOURLY PRODUC Average push distance: Jnadjusted hourly prod	<u>\$477.26</u> 477.26 TITIES 6 6 6 6 6 6 6 6 6 6 6 6 6	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 530 Swell factor: 1.1 Loose volume: 620 Source of estimated vol 500 Source of estimated swell 600 HOURLY PRODUC Average push distance: Jnadjusted hourly prod Vaterials consistency d	\$477.26 \$477.26 [TITIES] 6 65 4 LCY ume: Division cat Hance CTION luction: 910.5 LCY escription: Compare	of Reclamati lbook	 on, Mining & Safety mbankment 0.9		
Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 530 Swell factor: 1.1 Loose volume: 620 Source of estimated vol Source of estimated swell Source of estimated swell HOURLY PRODUCE Average push distance: Unadjusted hourly prod Vaterials consistency d Average push gradient: Average site altitude: Source:	$\frac{5477.26}{\$477.26}$ $\frac{TITTIES}{6}$ $\frac{165}{4 \text{ LCY}}$ $\frac{165}{4 \text{ LCY}}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY}}$ $\frac{5\%}{7,600 \text{ feet}}$	 of Reclamati lbook //hr acted fill or en	 on, Mining & Safety mbankment 0.9		
Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 53/ Swell factor: 1.1 Loose volume: 62/ Source of estimated vol 50/ Source of estimated swell 60/ HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency de Average push gradient: Average site altitude: Vaterial weight: 10/	$\frac{5477.26}{\$477.26}$ $\frac{TITIES}{6}$ $\frac{6}{165}$ $\frac{4 \text{ LCY}}{4 \text{ LCY}}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\frac{2,900 \text{ lbs/LCY}}{2,900 \text{ lbs/LCY}}$	 of Reclamati lbook //hr acted fill or en	on, Mining & Safety		
Fotal Fleet Cost/Hour: Initial Fleet Cost/Hour: Initial Volume: 53/ Swell factor: 1.1 Loose volume: 62/ Source of estimated vol Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average site altitude: Vaterial weight: Weight description:	$\frac{5477.26}{\$477.26}$ $\frac{\textbf{TITTIES}}{6}$ $\frac{6}{165}$ $\frac{4 \text{ LCY}}{\text{ume:}} \qquad \underline{\text{Division}}{\text{Cat Hance}}$ $\frac{150 \text{ feet}}{\text{Cat Hance}}$ $\frac{150 \text{ feet}}{10.5 \text{ LCY}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\underline{2,900 \text{ lbs/LCY}}$ $\underline{\text{Decomposed rock}}$	 of Reclamati lbook //hr acted fill or en	on, Mining & Safety		
Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 53/ Swell factor: 1.1 Loose volume: 62/ Source of estimated vol Source of estimated swell Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly prod Vaterials consistency d Average site altitude: Vaterial weight: Weight description: Lob Condition Correction Lob Condition Correction	$\frac{5477.26}{9477.26}$ $\frac{TITTIES}{6}$ $\frac{6}{165}$ $\frac{4 \text{ LCY}}{4 \text{ LCY}}$ $\frac{150 \text{ feet}}{2,900 \text{ lbs/LCY}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\frac{2,900 \text{ lbs/LCY}}{2,900 \text{ lbs/LCY}}$	of Reclamati book	on, Mining & Safety		
Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 53/ Swell factor: 1.1 Loose volume: 62/ Source of estimated vol Source of estimated vol Source of estimated swell HOURLY PRODUC Average push distance: Jnadjusted hourly prod Materials consistency d Average site altitude: Vaterial weight: Waterial weight: Weight description: Iob Condition Correction Operato Operato	$\frac{5477.26}{\$477.26}$ $\frac{\textbf{TITTIES}}{6}$ $\frac{6}{165}$ $\frac{4 \text{ LCY}}{\textbf{ume: Division}}$ $\frac{165}{4 \text{ LCY}}$ $\frac{150 \text{ feet}}{\text{CTION}}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\frac{2,900 \text{ lbs/LCY}}{\text{Decomposed rock}}$ $\frac{5 \text{ fector}}{\text{ r Skill: 0}}$	 of Reclamati lbook //hr acted fill or en acted fill or en acted fill or en 	on, Mining & Safety mbankment 0.9 50% Earth Source (AB.AVG.)		
Fotal Fleet Cost/Hour: Initial Fleet Cost/Hour: Initial Volume: 53/ Swell factor: 1.1 Loose volume: 62/ Source of estimated vol Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency de Average site altitude: Waterial weight: Weight description: Iob Condition Correction Operato Material consist	$\frac{5477.26}{\$477.26}$ $\frac{\textbf{TITTIES}}{6}$ $\frac{6}{165}$ $\frac{4 \text{ LCY}}{\textbf{ume: Division}}$ $\frac{165}{4 \text{ LCY}}$ $\frac{150 \text{ feet}}{\textbf{CTION}}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY}}$ $\frac{5 \%}{7,600 \text{ feet}}$ $\frac{2,900 \text{ lbs/LCY}}{\textbf{Decomposed rock}}$ $\frac{5 \text{ Factor}}{\textbf{r} \text{ Skill: 0}}$	 of Reclamati lbook //hr acted fill or en acted fill or en acted fill or en acted fill or en acted fill or en 	on, Mining & Safety mbankment 0.9 50% Earth (AB.AVG.) (CAT HB))		
Fotal Fleet Cost/Hour: Initial Fleet Cost/Hour: Initial Volume: 53/ Swell factor: 1.1 Loose volume: 62/ Source of estimated vol Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency de Average site altitude: Waterial weight: Weight description: [ob Condition Correction] Operato Material consistency of	$\frac{5477.26}{\$477.26}$ $\frac{\textbf{TITTIES}}{6}$ $\frac{6}{165}$ $\frac{4 \text{ LCY}}{4 \text{ LCY}}$ $\frac{150 \text{ feet}}{165}$ $\frac{150 \text{ feet}}{100000000000000000000000000000000000$		on, Mining & Safety mbankment 0.9		

Net correction: 0.3851

Adjusted unit production:	350.63 LCY/hr
Adjusted fleet production:	350.63 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	1.78 Hours
Total job cost:	\$850

Task description:	Regrade Work Area Pond			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION			
Task #: 041	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	041
User: HR1			-	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405	í	-		
Blade Type: Sen	ni-Universal	-		
Attachment: 3-sl	hank ripper	_		
Shift Basis: <u>1 pe</u>	er day	_		
Data Source: (CF	RG)	_		
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$477.26 \$477.26			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$477.26 \$477.26 TTIES 85			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,3 Swell factor: 1.16	\$477.26 \$477.26 ITIES 85 5			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,32 Swell factor: 1.16 Loose volume: 47,0	\$477.26 \$477.26 TTIES 85 5 49 LCY			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,3 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volum	\$477.26 \$477.26 ITIES 85 5 49 LCY me: Division of Reclamation	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,3 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volum Source of estimated swell	\$477.26 \$477.26 TTIES 85 5 49 LCY ne: Division of Reclamation 1 factor: Cat Handbook	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,00 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$477.26 \$477.26 ITIES 85 5 49 LCY ne: Division of Reclamation factor: Cat Handbook CION	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,00 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	<u>\$477.26</u> \$477.26 TTIES 85 5 49 LCY ne: Division of Reclamation factor: Cat Handbook FION <u>150 feet</u>	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,3 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$477.26 \$477.26 TTIES 85 5 49 LCY ne: Division of Reclamation 1 factor: Cat Handbook TION 150 feet ction: 910.5 LCY/hr	 n, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,00 Source of estimated volum swell Source of estimated swell 40,01 HOURLY PRODUCT 47,00 Average push distance: Unadjusted hourly product Materials consistency destance 40	\$477.26 \$477.26 \$477.26 ITIES 85 5 49 LCY ne: Division of Reclamation 1 factor: Cat Handbook FION ction: 910.5 LCY/hr scription: Compacted fill or em	 n, Mining & Safety bankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,32 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \\ \hline \\ \$477.26 \\ \hline \\ \hline \\ \hline \\ \$5 \\ \hline \\ \$6 \\ \hline \\ \hline \\ 150 \ feet \\ \hline \\ $	n, Mining & Safety bankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \end{array}$ $\begin{array}{r} \textbf{TTIES} \\ \$5 \\ 5 \\ \hline 19 \text{ LCY} \\ \textbf{me: Division of Reclamation} \\ factor: Cat Handbook \\ \hline \end{array}$ $\begin{array}{r} \textbf{ISO feet} \\ \hline \textbf{CION} \\ \hline \textbf{Structure} \\ \textbf{scription: 910.5 LCY/hr} \\ \hline \textbf{scription: Compacted fill or em} \\ \hline \hline 5 \% \\ \hline 7,600 \text{ feet} \\ \hline \end{array}$	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \\ \hline \textbf{TTIES} \\ \$5 \\ \hline 5 \\ \hline 49 \text{ LCY} \\ \hline \textbf{me:} & Division of Reclamation \\ \hline \textbf{factor:} & Cat Handbook \\ \hline \hline \textbf{CION} \\ \hline \textbf{ction:} & 150 \text{ feet} \\ \hline \textbf{ction:} & 910.5 \text{ LCY/hr} \\ \hline \textbf{scription:} & Compacted fill or em \\ \hline \frac{5 \%}{7,600 \text{ feet}} \\ \hline \textbf{2,900 lbs/LCY} \\ \hline \end{array}$	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,00 Source of estimated volum swell Source of estimated swell 40,00 HOURLY PRODUCT 40 Average push distance: 10 Unadjusted hourly product 40 Average push gradient: 40 Average site altitude: 10 Material weight: 10 Weight description: 10	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \\ \$477.26 \\ \hline \\ \hline \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	n, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,3 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	$ \frac{$477.26}{$477.26} $ TTIES $ \frac{85}{5}{}$ $ \frac{49 \text{ LCY}}{}$ me: Division of Reclamation factor: Cat Handbook TION $ \frac{150 \text{ feet}}{}$ Ction: 910.5 LCY/hr $ \frac{5 \%}{7,600 \text{ feet}} $ $ 2,900 \text{ lbs/LCY} Decomposed rock - 50\% \text{ Rock, 5} $ Factor	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,00 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator 3	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \$477.26 \\ \hline \hline \textbf{TTIES} \\ \$5 \\ 5 \\ \hline \textbf{49 LCY} \\ \hline \textbf{ne: Division of Reclamation} \\ \hline \textbf{factor: Cat Handbook} \\ \hline \textbf{factor: Cat Handbook} \\ \hline \textbf{CION} \\ \hline \textbf{ction: 910.5 LCY/hr} \\ \hline \textbf{acription: Compacted fill or em} \\ \hline \textbf{5 \%} \\ \hline \textbf{7,600 feet} \\ \hline \textbf{2,900 lbs/LCY} \\ \hline \textbf{Decomposed rock - 50\% Rock, 5} \\ \hline \hline \textbf{Factor} \\ \hline \textbf{Skill: 0.900} \\ \hline \end{array}$	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator 3 Material consistency	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \\ \$477.26 \\ \hline \\ \hline \\ \$57.5 \\ \hline \\ \hline \\ \hline \\ \$57.5 \\ \hline \\ $	n, Mining & Safety bankment 0.9 50% Earth 50% Earth (AB.AVG.) (CAT HB))		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 40,33 Swell factor: 1.16 Loose volume: 47,0 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator 3 Material consistency des	$\begin{array}{r} \$477.26 \\ \$477.26 \\ \hline \\ \$477.26 \\ \hline \\ \hline \\ \hline \\ \$5 \\ \hline \\ \hline \\ \hline \\ \$5 \\ \hline \\ $	n, Mining & Safety bankment 0.9 50% Earth 50% Earth (AB.AVG.) (CAT HB)) (GEN.)		

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	0.903	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	ht:	0.793	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.3851	
Adjusted unit production:	35	0.63 LCY/hr	
Adjusted fleet production:	35	0.63 LCY/hr	
	-		

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	134.18 Hours
Total job cost:	\$64,039

Task description:	Regrade Section 16 Pond			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION			
Task #: 042	State: Colorado		Abbreviation:	None
Date: $3/12/2025$	County: Moffat		Filename:	042
User: HR1				-
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine' Cat	D9T - 9SU			
Horsepower: 405				
Blade Type: Sem	i-Universal			
Attachment: 3-sh	ank ripper			
Shift Basis: 1 pe	r day			
Data Source: (CR	G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	NA		
Initial Volume: 12.96	7			
Swell factor: 1 165				
Loose volume: 15.10	7 LCY			
Source of estimated volum	ne: Division of Reclamati	on Mining & Safety		
Source of estimated volum	factor: Cat Handbook	on, whiling & Safety	,	
HOURLY PRODUCT	<u>ION</u>			
Average push distance:	150 feet			
Unadjusted hourly produc				
	tion: 910.5 LCY/hr			
Materials consistency deso	tion: <u>910.5 LCY/hr</u> cription: <u>Compacted fill or en</u>	mbankment 0.9		
Materials consistency deso Average push gradient:	tion:	mbankment 0.9		
Materials consistency deso Average push gradient: Average site altitude:	tion: <u>910.5 LCY/hr</u> cription: <u>Compacted fill or en 5 % 7,600 feet</u>	mbankment 0.9		
Materials consistency deso Average push gradient: Average site altitude: Material weight:	tion: <u>910.5 LCY/hr</u> cription: <u>Compacted fill or er</u> <u>5 %</u> 7,600 feet 2,900 lbs/LCY	mbankment 0.9		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	tion:	mbankment 0.9		
Materials consistency dese Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	tion:Compacted fill or en- cription:Compacted fill or en- 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock Factor_			
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	tion:Compacted fill or expected f	50% Earth (AB.AVG.)		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste	tion:	mbankment 0.9 , 50% Earth (AB.AVG.) (CAT HB))		
Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste Dozing met	tion:Compacted fill or en 	mbankment 0.9 , 50% Earth (AB.AVG.) (CAT HB)) (GEN.)		

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	0.903	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	ght:	0.793	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on: _	0.3851	
Adjusted unit production:	350	.63 LCY/hr	
Adjusted fleet production:	350	.63 LCY/hr	
	-		

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	43.08 Hours
Total job cost:	\$20,562

Task description:	Regrade East Taylor Pond			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<u>CATION</u>			
Task #: 043	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	043
User: HR1			-	
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405				
Blade Type: Sem	i-Universal			
Attachment: <u>3-sh</u>	ank ripper			
Shift Basis: 1 pe	r day			
Data Source: (CR	G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$477.26 \$477.26			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$477.26 \$477.26 [TIES			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5,980 Swell factor: 1.165 Loose volume: 6.967	\$477.26 \$477.26 1TIES			
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Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3851	
Adjusted unit production: 35	0.63 LCY/hr	
Adjusted fleet production: 35	0.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	19.87 Hours
Total job cost:	\$9,483

	0			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION			
Task #: 044	State: Colorado		Abbreviation:	None
Date: $3/12/2025$	County: Moffat		Filename:	044
User: HR1				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>ENT COST</u>			
Basic Machine: Cat	: D9T - 9SU			
Horsepower: 405	5			
Blade Type: Sen	ni-Universal			
Attachment: <u>3-sl</u>	hank ripper			
Shift Basis: <u>1 p</u>	er day			
Data Source: (CF	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	NA		
Total Fleet Cost/Hour:	\$477.26			
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume:,34	\$477.26 <u>ITIES</u> 0			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,34 Swell factor: 1.16 Loose volume: 2,72	\$477.26 TTIES 0 5 6 LCY			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,34 Swell factor: 1.16 Loose volume: 2,72 Source of estimated volu Swell	\$477.26 TTIES 0 5 6 LCY me: Division of Reclamat 1 factor: Cat Handbook	ion, Mining & Safety		
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,34 Swell factor: 1.16 Loose volume: 2,72 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest	\$477.26 TTIES 0 5 6 LCY me: Division of Reclamat 1 factor: Cat Handbook EION 150 feet ction: 910.5 LCY/hr scription: Compacted fill or e	ion, Mining & Safety		
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,34 Swell factor: 1.16 Loose volume: 2,72 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator 3 Material consistence	\$477.26 TTIES 0 5 6 LCY me: Division of Reclamat 1 factor: Cat Handbook TION ction: 910.5 LCY/hr scription: Compacted fill or e 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock Factor Skill: 0.900 ency: 0.900	ion, Mining & Safety mbankment 0.9 , 50% Earth (AB.AVG.) (CAT HB))		
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Job efficienc	y: 0.830	(1 SHIF1/DAY)
Spoil pi	e: 0.800	(FND-RF)
Push gradier	nt: 0.903	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigl	nt: 0.793	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correction	n: 0.3851	
Adjusted unit production:	350.63 LCY/hr	
Adjusted fleet production:	350.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	7.77 Hours
Total job cost:	\$3,711

Task description:	Regrade Taylor	Pump Holdi	ng Pond		
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTI	FICATION				
Task #: 045	State:	Colorado		Abbreviation:	None
Date: 3/12/2025	5 County:	Moffat		Filename:	045
User: HR1				-	
Agency or org	anization name: DR	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine:C	at D9T - 9SU				
Horsepower: 4	05				
Blade Type: S	emi-Universal				
Attachment: <u>3</u>	-shank ripper				
Shift Basis: 1	per day		_		
Data Source: (C	LKG)				
Cost Breakdown:		1			
			Utilization %		
Ownership Cost/Hour	:	\$253.16	NA		
Operating Cost/Hour		\$164.35	100		
Ripper own. Cost/Hour		\$18.79	<u>NA</u>		
Rupper op. Cost/Hour		\$2.37 \$29.50	23		
		N1X 19	NΛ		
Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$477.26 \$477.26 TITLES	φ.50.57			
Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u>	\$477.26 \$477.26 TITIES .673				
Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 16 Swell factor: 1.1 Locea volume: 10	\$477.26 \$477.26 TITIES 673 65 424 LCX				
Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.1</u> Loose volume: <u>19</u>	\$477.26 \$477.26 \$477.26 TITIES 673 65 424 LCY				
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Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.1</u> Loose volume: <u>19</u> Source of estimated vol Source of estimated swe HOURLY PRODUC	\$477.26 \$477.26 TITIES 673 65 424 LCY ume: Division of ell factor: Cat Hand CTION 150 feet	of Reclamation	on, Mining & Safety		
Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 16 Swell factor: 1.1 Loose volume: 19 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Inadjusted hourly prod	\$477.26 \$477.26 TITIES 673 65 424 LCY ume: Division 6 ell factor: Cat Hand CTION 150 feet uction: 910 5 LCY	of Reclamation	on, Mining & Safety		
Operator Cost/Hour Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.1</u> Loose volume: <u>19</u> Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Jnadjusted hourly prod	\$477.26 \$477.26 TITIES 673 65 424 LCY ume: Division of ell factor: Cat Hand CTION uction: 150 feet 910.5 LCY/	of Reclamati book	on, Mining & Safety		
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Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.1</u> Loose volume: <u>19</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Jnadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight:	\$477.26 \$477.26 TITIES 673 65 424 LCY ume: Division of ell factor: Cat Hand CTION uction: 910.5 LCY/ escription: Compa 5% 7,600 feet 2,900 lbs/LCY	of Reclamati book	on, Mining & Safety		
Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.1</u> Loose volume: <u>19</u> Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description:	\$477.26 \$477.26 \$477.26 TITIES ,673 65 ,424 LCY ume: Division of Cat Hand control factor: Cat Hand CTION uction: 910.5 LCY/ escription: Compa 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock		on, Mining & Safety		
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Operator Cost/Hour Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.1</u> Loose volume: <u>19</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Jnadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: <u>Cob Condition Correction</u> Material consi Dozing n	$\begin{array}{c} & \underbrace{\$477.26} \\ & \underbrace{\$477.26} \\ \hline \\ $		INA on, Mining & Safety		

Adjusted unit production:	350.63 LCY/hr
Adjusted fleet production:	350.63 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	55.40 Hours
Total job cost:	\$26,439

Page 1 of 2

Task description:	Regrade Section 28 Pond			
: Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	ICATION			
Task #: 046	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	046
User: HR1				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine: Cat	D9T - 9SU			
Horsepower: 405				
Blade Type: Sen	ni-Universal			
Attachment: 3-sl	nank ripper			
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CF	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	NA		
MATERIAL QUANT Initial Volume: 19,5 Swell factor: 1.16	ITIES 38 5			
Loose volume: 22,7	62 LCY			
Source of estimated volum Source of estimated swell	ne: Division of Reclamat factor: Cat Handbook	ion, Mining & Safety		
HOUKLY PRODUCI	IIUN			
Average push distance:	150 feet			
Unadjusted hourly produce	ction: 910.5 LCY/hr			
Materials consistency des	cription: Compacted fill or e	embankment 0.9		
Average push gradient:				
Average site altitude:	5 %			
	5 % 7,600 feet			
Material weight:	5 % 7,600 feet 2,900 lbs/LCY		_	
Material weight: Weight description:	5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock	x, 50% Earth		
Material weight: Weight description: Job Condition Correction	5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock Factor	c, 50% Earth		
Material weight: Weight description: Job Condition Correction Operator S	<u>5 %</u> 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock <u>Factor</u> Skill:0.900	x, 50% Earth Source (AB.AVG.)		
Material weight: Weight description: Job Condition Correction Operator S Material consiste	5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock Factor Skill: 0.900 ency: 0.900	s, 50% Earth <u>Source</u> (AB.AVG.) (CAT HB))		
Material weight: Weight description: Job Condition Correction Operator S Material consists Dozing me	5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock Factor Skill: 0.900 ency: 0.900 thod: 1.000	x, 50% Earth <u>Source</u> (AB.AVG.) (CAT HB)) (GEN.)		

Net correction: 0.3851

Adjusted unit production:	350.63 LCY/hr
Adjusted fleet production:	350.63 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	64.92 Hours
Total job cost:	\$30,982

Task description:	Regrade West Tay	lor Pond			
Colowyo Coal Mine	Permi	t Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 047 Date: 3/12/2025 User: HR1	State:County:	Colorado Moffat		Abbreviation: Filename:	None 047
Agency or organ	ization name: DRM	IS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405	• • • • • •				
Blade Type: Sem	ni-Universal				
Attachment: <u>3-sn</u>	ank ripper				
Data Source: (CR	G)				
Cost Breakdown:		1			
		***	Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$18.79	NA 25		
unner on L'oct/Lour		\$2.57	23		
Kipper op. Cost/Hour:			374		
Total Unit Cost/Hour: Total Fleet Cost/Hour:	\$477.26 \$477.26	\$38.59	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435	\$477.26 \$477.26 ITIES	\$38.59	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497	\$477.26 \$477.26 ITIES 5 7 LCY	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum	\$477.26 \$477.26 ITIES 5 7 LCY ne: Division of	\$38.59 Reclamati	 on, Mining & Safety		
Nipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volun Source of estimated swell	\$477.26 \$477.26 ITIES 5 7 LCY ne: Division of factor: Cat Handbo	\$38.59 Reclamati	on, Mining & Safety		
Aipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volun Source of estimated swell HOURLY PRODUCT	\$477.26 \$477.26 ITIES 5 7 LCY ne: Division of factor: Cat Handbo 'ION	\$38.59 Reclamati	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance:	\$477.26 \$477.26 ITIES 5 7 VLCY ne: Division of factor: Cat Handbo YION 150 feet	\$38.59 Reclamati	on, Mining & Safety		
Aipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$477.26 \$477.26 ITIES 5 7 1 1 1 5 5 7 1 5 5 7 1 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 5 5 7 1 1 5 5 5 7 1 1 5 5 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1	\$38.59 Reclamati	 on, Mining & Safety		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc	\$477.26 \$477.26 ITIES 5 7 7 7 7 7 7 7 7 7 7 7 7 7	\$38.59 Reclamati ook ed fill or en	 on, Mining & Safety mbankment 0.9		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude:	\$477.26 \$477.26 ITIES 5 7 ICY ne: Division of factor: Cat Handbo TON tion: 150 feet 910.5 LCY/hr cription: Compactor 5 % 7,600 feet	\$38.59 Reclamati ook ed fill or en			
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude: Material weight:	\$477.26 \$477.26 ITIES 5 7 ICY ne: Division of factor: Cat Handbo ION ION 150 feet tion: 910.5 LCY/hr cription: Compacto 5 % 7,600 feet 2,900 lbs/LCY	\$38.59 Reclamati pok ed fill or en			
Aipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volun Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude: Material weight: Weight description:	\$477.26 \$477.26 ITIES 5 7 1CY ne: Division of factor: Cat Handbo ION tion: 910.5 LCY/hr cription: Compactor 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 5	\$38.59 Reclamation Reclamation Reclamation Reclamation Sook	 on, Mining & Safety mbankment 0.9		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction	\$477.26 \$477.26 ITIES 5 7 ICY ne: Division of factor: Cat Handbo TON tion: 150 feet 910.5 LCY/hr cription: Compacte 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 5 Factor	\$38.59 Reclamati ook ed fill or en 50% Rock,	on, Mining & Safety		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$477.26 \$477.26 ITIES 5 7 LCY ne: Division of factor: Cat Handbo TON 150 feet 150 feet 910.5 LCY/hr cription: Compacte 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 5 <u>Factor</u> 5kill: 0.90	\$38.59 Reclamati Dok ed fill or en 50% Rock, 00	NA mbankment 0.9 , 50% Earth , 50% Earth		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste	\$477.26 \$477.26 ITIES 5 7 ICY ne: Division of factor: Cat Handbo TON tion: 910.5 LCY/hr cription: Compacte 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 4 <u>Factor</u> Skill: 0.90 ency: 0.90	\$38.59 <u>Reclamati</u> <u>ook</u> <u>ed fill or en</u> <u>50% Rock</u>			
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 6,435 Swell factor: 1.165 Loose volume: 7,497 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste Dozing met	\$477.26 \$477.26 \$477.26 ITIES 5 7 ICY ne: Division of factor: Cat Handbo ION 150 feet tion: 910.5 LCY/hr cription: Compactor 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 1 <u>Factor</u> Skill: 0.90 hod: 1.00	\$38.59 <u>Reclamati</u> <u>ook</u> ed fill or en <u>-</u> <u>50% Rock</u> , <u>00</u> <u>10</u> <u>10</u>	NA on, Mining & Safety		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 0.903	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.3851	
Adjusted unit production:	350.63 LCY/hr	
Adjusted fleet production:	350.63 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.361/LCY

Total job time:	21.38 Hours
Total job cost:	\$10,204

Task description:	Remove a	nd Regr	ade South	Collection Ditc	h			
Colowyo Coal Mine		Perm	it Action:	MT9		Permit/	Job#:	C1981019
PROJECT IDENTIF	ICATION							
Task #: 048 Date: 3/13/2025 User: HR1	Co	State: ounty:	Colorado Moffat			Abbreviat Filena	ion: me:	None 048
Agency or orga	nization name	: DRI	MS					
HOURLY EQUIPM	ENT COST							
Basic Machine: Attachment 1:	Cat 336D L ROPS Cab	<u>10'-6" S</u>	Stick		Horse Weigh Shif Data	epower: nt (MT): ft Basis: Source:		268 29.30 per day CRG)
Cost Breakdown:			I					
Ownership Cost/ Operating Cost/	Hour: Hour:	\$75.78 \$52.99	8	NA 100				
Operator Cost/ Total Unit Cost/	Hour: Hour:	\$33.87 \$162.6	7	NA				
Total Fleet Cost	/Hour:	\$162.6	54					
Source of e	of estimated ve stimated swell	olume: factor:	Division Cat Hand	of Reclamation, book	Mining	g & Safety		
HOURLY PRODUC	TION							
Excavator Cycle Time (1	oad bucket, sw	ving load	led, dump b	ucket, swing em	<u>ipty):</u>			
		I	Basic Job C	ondition Descrip	otion:	SEVERE		
	Secondary	Job Cor	ndition with	in Basic Descrip Cycle Time V	otion: alue:	SEVERE 0 445		minutes
Load Bucket Capacity					Buc	ket Size Class:	Sr	nall
Rated Capacit Bucket Fill Facto Adjusted Capacit	y: <u>1.50</u> or: <u>0.92</u> y: <u>1.44</u>	5 5 4	LCY (hea Loose ma	aped) aterial - 1/8" to 3	3/8" (90) - 95%) 0.925		
Job Condition Correction	n Factors			Sit	e Altitı	ude: <u>9600</u> feet		
Altitude Adj: Job Efficiency: Net Correction: Un	1.00 0.83 0.83 adjusted Hourl	y Unit P	Source (CAT HE (1 shift/da multiplier Production:	3) yy) 194.56	L(CY/Hour		
	Adjusted Hourl	y Unit P y Fleet P	Production: Production:	161.49 161.49	L(CY/Hour CY/Hour		
JOB TIME AND CO	<u>ST</u>							
Fleet size:	1 E	xcavato	r To	otal job time:		62.58		Hours
Unit cost: \$1.	.007 /LC	CY		Total job cost:		\$10,179		_

Task description:	Remove and Reg	rade Prospe	ct Collection Dite	ch		
Colowyo Coal Mine	Perr	nit Action:	MT9	Pe	ermit/Job#:	C1981019
PROJECT IDENTIF	ICATION					
Task #: 049 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abb	reviation: Filename:	None 049
Agency or orga	nization name: <u>DR</u>	MS				
HOURLY EQUIPMI	ENT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick] W	Horsepower: Veight (MT): Shift Basis: Data Source:	2 1 r	268 29.30 per day CRG)
Cost Breakdown:				Butu Source.	(
Ownership Cost/ Operating Cost/	Hour: \$75.7 Hour: \$52.9	78	Utilization % NA 100	-		
Operator Cost/ Total Unit Cost/	Hour: \$33.8 Hour: \$162.4	37 64	NA	-		
Total Fleet Cost	/Hour: \$162	.64				
Loose volume: 1 Source Source of es	,862 of estimated volume: stimated swell factor:	LCY Division of Cat Hand	of Reclamation, M	lining & Safet	y	
HOURLY PRODUC	ΓΙΟΝ					
Excavator Cycle Time (1)	oad bucket, swing loa	ded, dump b	ucket, swing empt	v):		
Load Bucket Capacity	Secondary Job Co	Basic Job Condition with	ondition Description n Basic Description Cycle Time Value	on: <u>SEVER</u> on: <u>SEVER</u> ue: <u>0.445</u>	E E	minutes
Rated Capacity Bucket Fill Facto Adjusted Capacity	y: 1.56 r: 0.925	LCY (hea Loose ma	ped) terial - 1/8" to 3/8	Bucket Size (" (90 - 95%) (Class: <u>Sr</u> 0.925	nall
Job Condition Correction	h Factors		Site A	Altitude: 9600	feet	
Altitude Adj: Job Efficiency: Net Correction: Un A	1.00 0.83 0.83 adjusted Hourly Unit Adjusted Hourly Unit djusted Hourly Fleet	Source (CAT HB (1 shift/da multiplier Production: Production: Production:) y) 194.56 161.49 161.49	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND CO	<u>ST</u>					
Fleet size:	1 Excavato	or To	tal job time:	11.5	3	Hours
Unit cost: \$1.	007 /LCY		Total job cost:	\$1,87	75	

		gruue i toi th	Side Facilities Dit	ch		
Colowyo Coal Mine	Pe	rmit Action:	MT9	P	ermit/Job#:	C1981019
PROJECT IDENTIF	ICATION					
Task #: 050 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abb	reviation: Filename:	None 050
Agency or organ	nization name: D	RMS				
HOURLY EQUIPME	CNT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6' ROPS Cab	" Stick	H W E	Horsepower: 'eight (MT): Shift Basis: Data Source:	2 1 p (0	268 9.30 ver day CRG)
Cost Breakdown:		I				
Ownership Cost/F Operating Cost/F	Hour: \$75 Hour: \$52	.78	Utilization % <u>NA</u> 100			
Operator Cost/H	Hour: \$33	.87	NA			
Total Unit Cost/H	Hour: \$162	2.64				
Total Fleet Cost/	Hour: \$16	2.64				
Loose volume: 99	86 of estimated volume	LCY : Division	of Reclamation, Mi	ining & Safet	y	
Source of est	timated swell factor	:: Cat Hand	lbook			
HOURLY PRODUCT	<u>FION</u>					
Excavator Cycle Time (lo	ad bucket, swing lo	aded, dump b	oucket, swing empty	<u>y):</u>		
Excavator Cycle Time (lo	ad bucket, swing lo	baded, dump b Basic Job C	oucket, swing empty ondition Descriptio	y): on: <u>SEVER</u>	E	
Excavator Cycle Time (lo	oad bucket, swing lo Secondary Job C	baded, dump b Basic Job C Condition with	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu	y): on: <u>SEVER</u> on: <u>SEVER</u> ue: 0.445	E E	minutes
Excavator Cycle Time (lo Load Bucket Capacity	oad bucket, swing lo Secondary Job C	baded, dump b Basic Job C Condition with	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu	y): on: <u>SEVER</u> on: <u>SEVER</u> ie: <u>0.445</u>	E	minutes
Excavator Cycle Time (lo	oad bucket, swing lo Secondary Job C	baded, dump b Basic Job C Condition with	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu	y): on: <u>SEVER</u> on: <u>SEVER</u> ie: <u>0.445</u> Bucket Size (E E Class: <u>S</u> n	minutes
Excavator Cycle Time (lc Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity	bad bucket, swing lo Secondary Job C r: 1.56 r: 0.925 r: 1.44	Basic Job C Basic Job C Condition with LCY (hea Loose ma LCY	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8'	y): on: <u>SEVER</u> on: <u>SEVER</u> le: <u>0.445</u> Bucket Size (' (90 - 95%) (E E Class: <u>Sn</u> 0.925	minutes
Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction	Secondary Job C Secondary Job C :: 1.56 :: 0.925 :: 1.44 Factors	Basic Job C Basic Job C Condition with LCY (hea LCY	ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8"	y): on: <u>SEVER</u> on: <u>SEVER</u> le: <u>0.445</u> Bucket Size (' (90 - 95%) (Altitude: <u>9600</u>	<u>E</u> E Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lc Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction	bad bucket, swing lo Secondary Job C " 1.56 " 0.925 " 1.44 Factors	Basic Job C Basic Job C Condition with LCY (hea Loose ma LCY Source	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8' Site A	y): on: <u>SEVER</u> on: <u>SEVER</u> ne: <u>0.445</u> Bucket Size (' (90 - 95%) (Altitude: <u>9600</u>	E E Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction	bad bucket, swing lo Secondary Job C ": 1.56 ": 0.925 ": 1.44 Factors 1.00	Basic Job C Condition with LCY (hea LCY LCY Source (CAT HI	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8' Site A	y): on: <u>SEVER</u> on: <u>SEVER</u> le: <u>0.445</u> Bucket Size (' (90 - 95%) (Altitude: <u>9600</u>	E E Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj: Job Efficiency:	bad bucket, swing lo Secondary Job C 9: 1.56 9: 0.925 9: 1.44 Factors 1.00 0.83	Basic Job C Basic Job C Condition with LCY (hea Loose ma LCY Source (CAT HE (1 shift/da	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8' Site A	y): on: <u>SEVER</u> on: <u>SEVER</u> ne: <u>0.445</u> Bucket Size (' (90 - 95%) (Altitude: <u>9600</u>	E E Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lo Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	bad bucket, swing lo Secondary Job C Secondary Job C 1.56 0.925 1.44 Factors 1.00 0.83 0.83	Basic Job C Basic Job C Condition with LCY (hea Loose ma LCY Source (CAT HF (1 shift/da multiplier	oucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8' Site A Site A	y): pn: <u>SEVER</u> pn: <u>SEVER</u> pe: <u>0.445</u> Bucket Size (⁹ (90 - 95%) (Altitude: <u>9600</u>	<u>E</u> Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lc Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Job Efficiency: Net Correction: Una A	bad bucket, swing lo Secondary Job C Secondary Job C 1.56 0.925 1.44 Factors 1.00 0.83 0.83 djusted Hourly Uni djusted Hourly Uni djusted Hourly Flee	Basic Job C Basic Job C Condition with LCY (hea LCY LCY Source (CAT HF (1 shift/da multiplier t Production: t Production: t Production:	pucket, swing empty ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - $1/8$ " to $3/8$ ' Site A 3) <u>(194.56)</u> <u>(194.56)</u> <u>(161.49)</u> (161.49)	<u>y):</u> pn: <u>SEVER</u> pn: <u>SEVER</u> pe: <u>0.445</u> Bucket Size (<u>' (90 - 95%) (</u> Altitude: <u>9600</u> <u>-</u> LCY/Hour LCY/Hour LCY/Hour	E E Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lc Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Una A A JOB TIME AND COS	Secondary Job C Secondary Job C : 1.56 : 0.925 : 1.44 Factors 1.00 0.83 0.83 djusted Hourly Uni djusted Hourly Uni djusted Hourly Uni	Basic Job C Basic Job C Condition with LCY (hea LCY LCY Source (CAT HF (1 shift/da multiplier t Production: t Production: t Production:	ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8' Site A 3) 194.56 161.49 161.49	<u>y):</u> pn: <u>SEVER</u> pn: <u>SEVER</u> pe: <u>0.445</u> Bucket Size (<u>'(90 - 95%)</u> (Altitude: <u>9600</u> <u>LCY/Hour</u> LCY/Hour LCY/Hour	E Class: <u>Sn</u> 0.925 feet	minutes
Excavator Cycle Time (lc Load Bucket Capacity Rated Capacity Bucket Fill Factor Adjusted Capacity Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Una A A A JOB TIME AND COS Fleet size:1	Secondary Job C Secondary Job C : 1.56 : 0.925 : 1.44 Factors 1.00 0.83 0.83 djusted Hourly Uni djusted Hourly Uni djusted Hourly Uni djusted Hourly Flee ST Excava	Basic Job C Condition with LCY (hea LCY LCY Source (CAT HI (1 shift/da multiplier t Production: t Production: t Production:	ondition Descriptio in Basic Descriptio Cycle Time Valu aped) aterial - 1/8" to 3/8" Site A 3) 194.56 161.49 161.49	y): pn: <u>SEVER</u> pn: <u>SEVER</u> le: <u>0.445</u> Bucket Size (^(90 - 95%)) (Altitude: <u>9600</u> <u>LCY/Hour</u> LCY/Hour LCY/Hour <u>LCY/Hour</u>	<u>E</u> Class: <u>Sn</u> 0.925 feet	minutes

Task description:	Remove and Regrade Sto	ker Ditch		
: Colowyo Coal Mine	Permit Action	n: <u>MT9</u>	Permit/Job#	#: <u>C1981019</u>
PROJECT IDENTIFIC	CATION			
Task #: 051 Date: 3/13/2025 User: UD1	State: Colorad County: Moffat	lo	Abbreviation: Filename:	None 051
A gency or organi				
HOURLY FOUIPMEN	ST COST			
Basic Machine:	Cat 336D L 10'-6" Stick	I	Horsenower:	268
Attachment 1:	ROPS Cab	W	Veight (MT):	29.30
			Shift Basis: 1	per day
]	Data Source:	(CRG)
Cost Breakdown:				
Ownership Cost/H	our: \$75.78	Utilization %		
Onerating Cost/H	$\frac{$73.78}{$52.99}$	100	-	
Operator Cost/H	our: \$33.87	NA	-	
Total Unit Cost/He	our: \$162.64		-	
Total Fleet Cost/H	our: \$162.64			
MATERIAL OUANTI	TIES			
Initial volume: 81	CCY	Swell facto	r: 1.165	
Loose volume: 94	5 LCY			
Source of	estimated volume: Divisi	on of Reclamation. M	lining & Safety	
Source of esti	mated swell factor: Cat Ha	andbook		
HOURI V PRODUCTI	ION			
Excavator Cycle Time (loa	d bucket, swing loaded, dum	<u>p bucket, swing empt</u>	<u>y):</u>	
	Basic Job	Condition Description	on: SEVERE	
	Secondary Job Condition w	vithin Basic Description	on: SEVERE	
		Cycle Time Val	ue: 0.445	minutes
Load Bucket Capacity				
			Bucket Size Class: S	mall
Rated Capacity:	1.56 LCY (heaped) motorial $1/8$ " to $2/8$	"(00 05%) 0.025	
Adjusted Capacity	1.44 LCY	material - 1/8 10 5/8	(90 - 93%) 0.923	
Iob Condition Correction F	Factors	Site	Altitude: 9600 feet	
	Sour			
Altitude Adi	1.00 (CAT	HB)		
Job Efficiency:	0.83 (1 shift	/day)		
Net Correction:	0.83 multip	ier		
Unad	iusted Hourly Unit Productic	n. 194 56	LCY/Hour	
Ad	justed Hourly Unit Production	n: 161.49	LCY/Hour	
Adj	usted Hourly Fleet Production	on: 161.49	LCY/Hour	
JOB TIME AND COS	<u>r</u>			
Fleet size: 1	Excavator	Total job time:	5.85	Hours
		- -		_
Unit cost: \$1.00	/LCY	Total job cost:	\$952	

Task description:	Remove and Regra	ade West Si	de Facilities Ditc	ch		
Colowyo Coal Mine	Permi	t Action:	MT9	Per	mit/Job#:	C1981019
PROJECT IDENTIFI	CATION					
Task #: 052 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abbre	viation: ename:	None 052
Agency or organ	nization name: <u>DRM</u>	1S				
HOURLY EQUIPME	NT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" St ROPS Cab	tick	H W I	Horsepower: /eight (MT): Shift Basis: Data Source:		268 29.30 Der day CRG)
Cost Breakdown:						
Ownership Cost/H Operating Cost/H	Hour: \$75.78 Hour: \$52.99		Utilization % NA 100			
Operator Cost/H Total Unit Cost/H	Hour: \$33.87 Hour: \$162.64	4	NA			
Total Fleet Cost/	Hour:\$162.6	4				
MATERIAL QUANT Initial volume: 3, Loose volume: 3,	<u>ITIES</u> 385 944	CCY LCY	Swell factor	r: <u>1.165</u>		
Source of est	of estimated volume:	Division o Cat Handb	f Reclamation, M ook	ining & Safety		
HOURLY PRODUCT	<u>TION</u>					
Excavator Cycle Time (lo	ad bucket, swing loade	ed, dump bu	cket, swing empty	<u>y):</u>		
Load Bucket Capacity	B Secondary Job Cone	asic Job Co dition within	ndition Description n Basic Description Cycle Time Valu	on: <u>SEVERE</u> on: <u>SEVERE</u> ne: 0.445		minutes
				Bucket Size Cla	ass: <u>Sr</u>	nall
Rated Capacity Bucket Fill Factor Adjusted Capacity	: <u>1.56</u> : <u>0.925</u> : 1.44	LCY (heap Loose mat LCY	oed) erial - 1/8" to 3/8'	" (90 - 95%) 0.9	025	
Job Condition Correction	Factors		Site A	Altitude: <u>9600</u> fe	eet	
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HB) (1 shift/day multiplier) ;)			
Una A Ad	djusted Hourly Unit Pr djusted Hourly Unit Pr ljusted Hourly Fleet Pr	roduction: roduction: roduction:	194.56 161.49 161.49	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND COS	<u>ST</u>					
Fleet size: 1	Excavator	Tot	al job time:	24.42		Hours
Unit cost: \$1.0	007 /LCY		Total job cost:	\$3.972		

	Remove and Reg	rade West H	it Coal Road Ditch		
Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#	: <u>C1981019</u>
PROJECT IDENTIFIC	CATION				
Task #: 053 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 053
Agency or organiz	zation name: DR	MS			
HOURLY EQUIPMEN	NT COST				
Basic Machine: Attachment 1:F	Cat 336D L 10'-6" ROPS Cab	Stick	Ho Wei S Da	brsepower: ight (MT): hift Basis:1 ta Source:(268 29.30 per day CRG)
Cost Breakdown:		I			
Ownership Cost/Ho Operating Cost/Ho Operator Cost/Ho	strain \$75.7 pur: \$52.9 pur: \$33.8	8 9 7	NA 100 NA		
Total Unit Cost/Ho	our: \$162.	54			
Total Fleet Cost/H	our: \$162.	64			
MATERIAL QUANTI'Initial volume:1,9Loose volume:2,3	<u>FIES</u> 75 01	CCY LCY	Swell factor:	1.165	
Source of Source of estin	estimated volume: nated swell factor:	Division of Cat Hand	of Reclamation, Min book	ing & Safety	
HOURLY PRODUCTI	ON				
Excavator Cycle Time (loa	d bucket, swing loa	ded, dump b	ucket, swing empty)	<u>.</u>	
		Basic Job Co	ondition Description	:SEVERE	
	Secondary Job Co	ndition with	in Basic Description Cycle Time Value	: <u>SEVERE</u> : 0.445	minutes
Load Bucket Capacity			_		
Rated Canacity	1 56	LCY (hea	B (B	ucket Size Class: <u>S</u>	mall
Bucket Fill Factor: Adjusted Capacity:	0.925 1.44	Loose ma	terial - 1/8" to 3/8" ((90 - 95%) 0.925	
Job Condition Correction F	Factors		Site Alt	titude: <u>9600</u> feet	
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HB (1 shift/da multiplier	() y)		
Unad Ad Adj	justed Hourly Unit justed Hourly Unit usted Hourly Fleet	Production: Production: Production:	194.56 161.49 161.49	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	<u>r</u>				
JOB TIME AND COST Fleet size: 1	<u>E</u> Excavato	or To	tal job time:	14.25	Hours

Colonyo Coal Mine Permit Action: MT9 Permit/Doff: C19810 PROJECT IDENTIFICATION Task fr: 054 More The Colorado None Date: 3/13/2025 County: Moffat Print/Doffat None Dite: HRI County: Moffat Print/Doffat Obterviation: None Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat 33GD L 10'-6" Stick Horsepower: 268 Matchinent 1: ROPS Cab Weight (MT): 29.30 Shift Basis: 1 per day Data Source: (CRG) Core Breakdown: Utilization % NA (CRG) Ownership Cost/Hour: \$152.64 Total Unit Cost/Hour: \$162.64 Total Vice Cost/Hour: \$162.64 Total Unit Cost/Hour: \$162.64 Ecv Source of estimated wolume: Division of Reclamation, Mining & Safety Source of estimated wolume: Cat Handbook HOURLY PRODUCTION Escenator Cycle Time (load backet, swing loaded, dump backet, swing empty): Source of estimated wolume: Cat Handbook Load Backet Capacity: 1.56 LCY (beaped) Bucket Size Class: Small	Task description:	Remove and Reg	rade East a	nd West Section 16	6 Ditch		
PROJECT IDENTIFICATION Task #: 054 State: Colorado Abbreviation: None Date: 213/2025 County: Moffat Filename: 054 Use: HR1	Colowyo Coal Mine	Per	mit Action:	MT9	F	Permit/Job#:	C1981019
Task #: 054 State: Colorado Abbreviation: None Due: 313/2025 County: Moffat Filename: 054 User: IRI	PROJECT IDENTIF	TCATION					
Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat 336D L 10'-6" Stick Horsepower: 268 Attachment I: ROPS Cab Weight (MT): 29.30 Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Strift Basis: 1 per day Ownership Cost/Hour: \$52.99 100 Operating Cost/Hour: \$513.87 NA Total Unit Cost/Hour: \$162.64 Total Unit Cost/Hour: \$162.64 MATERIAL QUANTITIES LCY Swell factor: 1.165 Loose volume: 4,383 LCY Swell factor: 1.165 Source of estimated volume: Division of Reclamation, Mining & Safety Cat Handbook HOURLY PRODUCTION Basic Job Condition within Basic Description: SEVERE minutes Source of estimated swell factor: 0.445 minutes 1.62 Load Bucket Capacity: 1.56 LCY (heaped) SEVERE small Basic Job Condition within Basic Description: SEVERE Small Mall Load Bucket Capacity: 1.56 LCY (heaped)	Task #: 054 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abt	Filename:	None 054
HOURLY EQUIPMENT COST Basic Machine: Cat 336D L 10'-6" Stick Horsepower: 28.3 Attachment 1: ROPS Cab Weight (MT): 29.30 Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: \$100.000 Ownership Cost/Hour: \$52.99 100 Operating Cost/Hour: \$162.64 Total Unit Cost/Hour: \$162.64 MATERIAL OLANTITIES Initial volume: 3.762 Loose volume: 4.383 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE minutes Load Bucket Capacity: 1.56 LCY (heaped) Bucket Size Class: Small Backet Fill Factor: 0.925 Loose material -1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Iob Enficiency: 0.83 ICAT HB) Ibi Production: 161.49 LCY/Hour Adjusted Capacity:	Agency or orga	nization name: DF	RMS				
Basic Machine: Cat 336D L 10'-6" Stick Horsepower: 268 Attachment 1: ROPS Cab Weight (MT): 29,30 Shift Basis: 1 per day Ownership Cost/Hour: \$75.78 NA Operating Cost/Hour: \$52.99 100 Operating Cost/Hour: \$162.64 Total Unit Cost/Hour: \$162.64 Matter \$162.64 Matter \$162.64 Matter \$162.64 Matter \$162.64 Matter \$162.64 Source of estimated volume: \$162.64 Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: CCY Source of estimated swell factor: SEVERE Secondary Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Load Bucket Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.83 (1 shift/day)	HOURLY EQUIPMI	ENT COST					
Cost Breakdown: Utilization % Ownership Cost/Hour: \$75.78 NA Operating Cost/Hour: \$33.87 NA Operator Cost/Hour: \$33.87 NA Total Unit Cost/Hour: \$162.64	Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	H We D	orsepower: eight (MT): Shift Basis: ata Source:	2 1 p (C	268 9.30 er day CRG)
Ownership Cost/Hour: \$75,78 Utilization % Operating Cost/Hour: \$\$25,99 100 Operator Cost/Hour: \$\$162.64 Total Unit Cost/Hour: \$\$162.64 Total Fleet Cost/Hour: \$\$162.64 MATERIAL QUANTITIES Initial volume: \$\$,762 CCY Swell factor: 1.165 Loose volume: \$\$,762 Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Load Bucket Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 ultipler Unadjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hou	Cost Breakdown:		1				
Operator Cost/Hour: 333.3/ NA Total Unit Cost/Hour: \$162.64 Total Flet Cost/Hour: \$162.64 MATERIAL QUANTITIES Initial volume: 3.762 Initial volume: 4,383 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Cycle Time Value: 0.445 minutes Load Bucket Capacity 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 Net Correction: 0.83 multiplier LCY/Hour Adjusted Hourly Unit Production: 194.56 LCY/Hour Jo	Ownership Cost/ Operating Cost/	Hour: \$75.7 Hour: \$52.9	78	NA 100			
Total Fleet Cost/Hour: \$162.64 MATERIAL OUANTITIES Initial volume: 3.762 Lose volume: 4,383 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Load Bucket Capacity Secondary Job Condition Description: Bucket Size Class: Small Rated Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Source Source Adjusted Hourly Unit Production: Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST <td>Total Unit Cost/</td> <td>Hour: \$33.8 Hour: \$162.</td> <td>64</td> <td>INA</td> <td></td> <td></td> <td></td>	Total Unit Cost/	Hour: \$33.8 Hour: \$162.	64	INA			
MATERIAL QUANTITIES Initial volume: 3.762 Loose volume: 4.383 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Load Bucket Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: <u>9600</u> feet Source Altitude Adj: 0.83 Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14	Total Fleet Cost	/Hour: \$162	.64				
Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Basic Job Condition Description: SEVERE Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Load Bucket Capacity Basic Job Condition within Basic Description: SEVERE minutes Load Bucket Capacity 1.56 LCY (heaped) Bucket Size Class: Small Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Job Condition Correction Factors Site Altitude: 9600 feet Job Condition Correction Factors Source Site Altitude: 9600 feet Source Altitude Adj: 1.00 (CAT HB) LCY/Hour Job Efficiency: 0.83 (1 shift/day) LCY/Hour Adjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	MATERIAL QUAN Initial volume: _3 Loose volume: _4	1111ES 3,762 1,383	CCY LCY	Swell factor:	<u>1.165</u>		
HOURLY PRODUCTION Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Cycle Time Value: 0.445 minutes Load Bucket Capacity Bucket Size Class: Small Bucket Size Class: Small Bucket Fill Factor: 0.925 Adjusted Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Vital job time: 27.14 Job cost: \$4.414	Source Source of es	of estimated volume: stimated swell factor:	Cat Hand	of Reclamation, Mii lbook	ning & Safe	ty	
Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty): Basic Job Condition Description: SEVERE Secondary Job Condition Within Basic Description: SEVERE Cycle Time Value: 0.445 Bucket Capacity Bucket Size Class: Small Rated Capacity: 1.56 Bucket Size Class: Small Bucket Fill Factor: 0.925 OSUBCE Adjusted Capacity: 1.44 LCY (heaped) Bucket Fill Factor: 0.925 Job Condition Correction Factors Source Adjusted Capacity: 1.44 Job Condition Correction Factors Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 194.56 LCY/Hour Adjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour Job TIME AND COST Fleet size: 1 Excavator Total job t	HOURLY PRODUC	TION					
Basic Job Condition Description: SEVERE Secondary Job Condition within Basic Description: SEVERE Cycle Time Value: SEVERE O.445 minutes Load Bucket Capacity Bucket Size Class: Small Rated Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 (1 shift/day) Net Correction: 194.56 LCY/Hour Adjusted Hourly Unit Production: 194.56 LCY/Hour Job Efficiency: 0.83 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour <td>Excavator Cycle Time (1</td> <td>oad bucket, swing loa</td> <td>ded, dump b</td> <td>bucket, swing empty</td> <td><u>):</u></td> <td></td> <td></td>	Excavator Cycle Time (1	oad bucket, swing loa	ded, dump b	bucket, swing empty	<u>):</u>		
Secondary Job Condition within Basic Description: SEVERE Cycle Time Value: SEVERE Cycle Time Value: SEVERE OL445 minutes Bucket Capacity: Sucket Size Class: Small Bucket Size Class: Small Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 194.56 LCY/Hour Adjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 194.56 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Tot			Basic Job C	ondition Description	n: SEVEF	RE	
Cycle Time Value: <u>0.443</u> minutes Load Bucket Capacity Bucket Size Class: Small Bucket Size Class: Small Bucket Size Class: Small Bucket Fill Factor: 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Source Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: Job Efficiency: 0.83 Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: Adjusted Hourly Unit Production: 161.49 LCY/Hour LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour LCY/Hour JOB TIME AND COST Excavator Fleet size: 1 Excavator Total job time: 27.14 Unit cost: \$1.007 /LCY Total job cost: \$4.414		Secondary Job Co	ondition with	in Basic Description	n: SEVER	RE	
Bucket Size Class: Small Rated Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Source Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	Load Bucket Capacity			Cycle Time value	e: <u>0.445</u>		minutes
Rated Capacity: 1.56 LCY (heaped) Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925 Adjusted Capacity: 1.44 LCY Job Condition Correction Factors Site Altitude: 9600 feet Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414				I	Bucket Size	Class: <u>Sm</u>	nall
Job Condition Correction Factors Site Altitude: 9600 feet Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	Rated Capacit Bucket Fill Facto Adjusted Capacit	y: <u>1.56</u> r: <u>0.925</u> y: 1.44	LCY (hea Loose ma LCY	aped) aterial - 1/8" to 3/8"	(90 - 95%)	0.925	
Source Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	Job Condition Correction	n Factors		Site A	ltitude: <u>960(</u>	<u>)</u> feet	
Altitude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 (1 shift/day) Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14 Unit cost: \$1.007 /LCY Total job cost: \$4.414			Source				
Net Correction: 0.83 multiplier Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14 Unit cost: \$1.007 /LCY Total job cost: \$4.414	Altitude Adj: Job Efficiency:	0.83	(CAT HE (1 shift/da	<u>3)</u> (y)			
Unadjusted Hourly Unit Production: 194.56 LCY/Hour Adjusted Hourly Unit Production: 161.49 LCY/Hour Adjusted Hourly Fleet Production: 161.49 LCY/Hour JOB TIME AND COST Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	Net Correction:	0.83	multiplier				
JOB TIME AND COST Fleet size: 1 Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	Un A	adjusted Hourly Unit Adjusted Hourly Unit Adjusted Hourly Fleet	Production: Production: Production:	194.56 161.49 161.49	LCY/Hour LCY/Hour LCY/Hour		
Fleet size: 1 Excavator Total job time: 27.14 Hours Unit cost: \$1.007 /LCY Total job cost: \$4.414	JOB TIME AND CO	ST					
Unit cost: \$1.007 /LCY Total iob cost: \$4.414	Fleet size:	1 Excavate	or To	otal job time:	27.1	14	Hours
	Unit cost: \$1.	007 /LCY		Total job cost:	\$4.4	14	

Task description:	Remove and	Regrade Section	n 16 Fill Ditch		
Colowyo Coal Min	e	Permit Action:	MT9	Peri	mit/Job#: <u>C1981019</u>
PROJECT IDENT	IFICATION				
Task #: 055 Date: 3/13/202 User: HR1	Sta 25 Count	te: Colorado ty: Moffat		Abbre Fil	viation: <u>None</u> ename: <u>055</u>
Agency or or	ganization name: _	DRMS			
HOURLY EQUIPN	MENT COST				
Basic Machine: Attachment 1:	Cat 336D L 10 ROPS Cab	-6" Stick	X	Horsepower: Weight (MT): Shift Basis: Data Source:	268 29.30 1 per day (CRG)
Cost Breakdown:					
Ownership Co Operating Co Operator Co Total Unit Co	st/Hour: \$ st/Hour: \$ st/Hour: \$	75.78 52.99 33.87	Utilization % NA 100 NA	-	
Total Elect Co		162.04			
Source of Source of HOURLY PRODU Excavator Cycle Time	e of estimated volu estimated swell fac <u>CTION</u> (load bucket, swing Secondary Jol	me: <u>Division</u> tor: <u>Cat Hanc</u> <u>g loaded, dump t</u> Basic Job C o Condition with	of Reclamation, M lbook pucket, swing emp ondition Descripti in Basic Descripti	Aining & Safety ty): ion: SEVERE ion: SEVERE	
Load Bucket Capacity			Cycle Time Val	lue: 0.445	minutes
Rated Capac Bucket Fill Fac Adjusted Capac	tity: 1.56 tor: 0.925 tity: 1.44	LCY (he Loose ma	aped) aterial - 1/8" to 3/8	Bucket Size Cla 3" (90 - 95%) 0.9	ass: <u>Small</u>
Job Condition Correct	ion Factors		Site	Altitude: <u>9600</u> fe	eet
Altitude Adj: Job Efficiency: Net Correction: U	1.00 0.83 0.83 Jnadjusted Hourly U Adjusted Hourly U	Source (CAT HI (1 shift/da multiplier Unit Production: Unit Production:	$\frac{194.56}{161.49}$	LCY/Hour LCY/Hour	
IOR TIME AND C		icet r rouuction:	101.47		
Fleet size	1 Eve	ivator T	otal job time.	14 93	Hours
			san joo unie.	17,73	
Unit cost: \$	51.007 /LCY		Total job cost:	\$2,428	

Colowyo Coal Mine		graue Section	n 28 Collector Di	tch		
	Pe	rmit Action:	MT9	Pe	ermit/Job#:	C1981019
PROJECT IDENTIFI	ICATION					
Task #: 056 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abb	reviation: Filename:	None 056
Agency or organ	nization name: <u>D</u>	RMS				
HOURLY EQUIPME	<u>ENT COST</u>					
Basic Machine: Attachment 1:	Cat 336D L 10'-6 ROPS Cab	" Stick	V	Horsepower: Weight (MT): Shift Basis: Data Source:	22 1 p	268 29.30 Der day CRG)
Cost Breakdown:		I				
Ownership Cost/F Operating Cost/F Operator Cost/F	Hour: \$75 Hour: \$52 Hour: \$33	.78 .99 .87	Utilization % NA 100 NA			
Total Unit Cost/F	Hour: $\$162$	2.64				
Total Fleet Cost/	Hour: \$16	2.64				
MATERIAL QUANT Initial volume: 2, Loose volume: 2,	<u>111ES</u> 200 563	CCY LCY	Swell facto	or: <u>1.165</u>		
Source of est	of estimated volume timated swell factor	: Division Cat Hand	of Reclamation, M book	Aining & Safet	ý	
HOURLY PRODUCT	<u>TION</u>					
Excavator Cycle Time (lo	ad bucket, swing lo	aded, dump b	ucket, swing emp	<u>ty):</u>		
		Basic Job C	ondition Descripti	ion: <u>SEVER</u>	E	
	Secondary Job C	Condition with	in Basic Descripti Cvcle Time Val	ion: <u>SEVER</u> lue: 0.445	E	minutes
Load Bucket Capacity			- ,			
Doted Conseits		LCV (ba	and)	Bucket Size C	Class: <u>Sr</u>	nall
Bucket Fill Factor Adjusted Capacity	. 1.36 . 0.925 . 1.44	LCY	$\frac{1}{2}$ aterial - $\frac{1}{8}$ to $\frac{3}{8}$	8" (90 - 95%) 0	.925	
Job Condition Correction	Factors		Site	Altitude: <u>9600</u>	feet	
		-				
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HE (1 shift/da multiplier	3) y)			
Altitude Adj: _ Job Efficiency: _ Net Correction: _ Una	1.00 0.83 0.83 djusted Hourly Uni	Source (CAT HE (1 shift/da multiplier t Production:	3) 194.56	_ LCY/Hour		
Altitude Adj: Job Efficiency: Net Correction: Una A Ad	1.00 0.83 0.83 djusted Hourly Uni djusted Hourly Uni djusted Hourly Flee	Source (CAT HE (1 shift/da multiplier t Production: t Production: t Production:	3) <u>y)</u> <u>194.56</u> <u>161.49</u> 161.49	LCY/Hour LCY/Hour LCY/Hour		
Altitude Adj: Job Efficiency: Net Correction: Una A A JOB TIME AND COS	1.000.830.83djusted Hourly Unidjusted Hourly Unidjusted Hourly FleeST	Source (CAT HE (1 shift/da multiplier t Production: t Production: t Production:	3) y) 194.56 161.49 161.49	LCY/Hour LCY/Hour LCY/Hour		
Altitude Adj: Job Efficiency: Net Correction: Una A A JOB TIME AND COS Fleet size:1	1.00 0.83 0.83 djusted Hourly Uni djusted Hourly Uni djusted Hourly Flee ST Excava	Source (CAT HE (1 shift/da multiplier t Production: t Production: t Production: t or To	3) <u>194.56</u> <u>161.49</u> 161.49 total job time:	_ LCY/Hour _ LCY/Hour _ LCY/Hour _ 15.8	7	Hours

	Keniove and Keg	rade Section	ii 29 Conector Dit	ch		
Colowyo Coal Mine	Peri	nit Action:	MT9	Per	rmit/Job#:	C1981019
PROJECT IDENTIFIC	CATION					
Task #: 057 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abbre	eviation: lename:	None 057
Agency or organi	zation name: DR	MS				
<u>HOURLY EQUIPMEN</u>	NT COST					
Basic Machine: C Attachment 1: F	Cat 336D L 10'-6" ROPS Cab	Stick	ı W	Horsepower: _ /eight (MT): _ Shift Basis: _ Data Source: _	22 1 p	268 29.30 Der day CRG)
Cost Breakdown:		1				
Ownership Cost/Ho Operating Cost/Ho Operator Cost/Ho	Sour: \$75.7 Sour: \$52.9 Sour: \$33.8	78 99 37	NA 100 NA	-		
Total Unit Cost/He	our: \$162.	64				
Total Fleet Cost/H	lour: \$162	.64				
$\frac{\text{MATERIAL QUANTT}}{\text{Initial volume:}} \frac{3,1}{3,6}$ Loose volume: 3,6	<u>11ES</u> 00 12	CCY LCY	Swell facto	r: <u>1.165</u>		
Source of Source of estin	estimated volume: mated swell factor:	Division Cat Hand	of Reclamation, M book	ining & Safety		
HOURLY PRODUCTI	<u>ION</u>					
Excavator Cycle Time (loa	d bucket, swing loa	<u>ded, dump b</u>	ucket, swing empt	<u>y):</u>		
		Basic Job C	ondition Description	on: <u>SEVERE</u>	3	
	Secondary Job Co	ndition with	in Basic Description Cycle Time Value	on: <u>SEVERE</u> ue: 0.445	2	minutes
Load Bucket Capacity						
Poted Conseitur	1 56	I CV (ba	and)	Bucket Size Cl	ass: <u>Sr</u>	nall
Bucket Fill Factor: Adjusted Capacity:	0.925 1.44	Loose ma	aterial - 1/8" to 3/8	" (90 - 95%) 0.	925	
Job Condition Correction F	Factors		Site A	Altitude: <u>9600</u> f	eet	
Job Condition Correction F Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HE (1 shift/da multiplier	Site 2 3)	Altitude: <u>9600</u> f	eet	
<u>Job Condition Correction F</u> Altitude Adj: Job Efficiency: Net Correction: Unad Adj	1.00 0.83 0.83 justed Hourly Unit justed Hourly Unit usted Hourly Fleet	Source (CAT HE (1 shift/da multiplier Production: Production: Production:	Site 2 3) yy) 194.56 161.49 161.49	Altitude: <u>9600</u> f LCY/Hour LCY/Hour LCY/Hour	řeet	
Job Condition Correction F Altitude Adj: Job Efficiency: Net Correction: Unad Adj JOB TIME AND COST	1.00 0.83 0.83 justed Hourly Unit justed Hourly Unit usted Hourly Fleet	Source (CAT HE (1 shift/da multiplier Production: Production: Production:	Site 2 3) 194.56 161.49 161.49 161.49	Altitude: <u>9600</u> f LCY/Hour LCY/Hour LCY/Hour	řeet	
Job Condition Correction F Altitude Adj: Job Efficiency: Net Correction: Unad Adj JOB TIME AND COST Fleet size: 1	1.00 0.83 0.83 justed Hourly Unit justed Hourly Unit usted Hourly Fleet [Excavate	Source (CAT HE (1 shift/da multiplier Production: Production: Production: or To	Site 2 3) <u>194.56</u> <u>161.49</u> 161.49 Dtal job time:	Altitude: <u>9600</u> f LCY/Hour LCY/Hour LCY/Hour 22.36	èet	Hours

Task description:	Remove and Re	grade 4 Haul	Road A Sedimen	t Traps	
Colowyo Coal Mine	<u>e</u> Pe	rmit Action: _	MT9	Per	mit/Job#: <u>C1981019</u>
PROJECT IDENTI	IFICATION				
Task #: 058 Date: 3/13/202 User: HR1	5 State:	Colorado Moffat		Abbre Fil	viation: <u>None</u> lename: <u>058</u>
Agency or or	ganization name: <u>D</u>	RMS			
HOURLY EQUIPM	<u>IENT COST</u>				
Basic Machine: Attachment 1:	Cat 336D L 10'-6 ROPS Cab	" Stick	H W E	Horsepower: Yeight (MT): Shift Basis: Data Source:	268 29.30 1 per day (CRG)
Cost Breakdown:		1			
Ownership Cos Operating Cos Operator Cos Total Unit Cos	st/Hour: \$75 st/Hour: \$52 st/Hour: \$33 st/Hour: \$16	.78 .99 .87 2.64	Utilization % NA 100 NA		
Total Fleet Co	ost/Hour: \$16	2 64			
Initial volume: Loose volume: Source	600 699 ee of estimated volume	CCY LCY : Division of Cat Hand	Swell factor	:: <u>1.165</u> ining & Safety	
Source of	estimated swell factor	: Cat Hand	book		
HOURLY PRODU	<u>CTION</u>				
Excavator Cycle Time	(load bucket, swing lo	baded, dump b	ucket, swing empty	<u>y):</u>	
	Secondary Job (Basic Job Co	ondition Descriptio	on: <u>SEVERE</u>	
	Secondary 500 C	ondition with	Cycle Time Valu	$\begin{array}{c} \text{ie:} \underline{0.445} \\ \end{array}$	minutes
Load Bucket Capacity				Bucket Size Cl	ass. Small
Rated Capac	vity: 1.56	LCY (hea	ped)	Ducket Size Ci	
Bucket Fill Fac	tor: 0.925	Loose ma	terial - 1/8" to 3/8"	' (90 - 95%) 0.9	25
Adjusted Capac	on Factors		Site A	Altitude [,] 9600 fe	Pet
		Source			
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	(CAT HB (1 shift/da multiplier) y)		
I	Inadiusted Hourly Uni	t Production	194 56	LCY/Hour	
C	Adjusted Hourly Uni	t Production:	161.49	LCY/Hour	
	Adjusted Hourly Flee	t Production:	161.49	LCY/Hour	
IOB TIME AND C	<u>OST</u>				
JOB TIME AND C	OST 1 Excava	tor To	tal job time:	4.33	Hours

Task description:	Remove and Regr	rade Six Pos	t-Mining Stock F	onds		
Colowyo Coal Mine	Perm	nit Action:	MT9	P	ermit/Job#:	C1981019
PROJECT IDENTIF	ICATION					
Task #: 059 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abb	reviation: Filename:	None 059
Agency or orga	nization name: <u>DR</u>	MS				
HOURLY EQUIPMI	ENT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" S ROPS Cab	Stick	H W	Horsepower: Veight (MT): Shift Basis: Data Source:	2 1 p	268 19.30 per day CRG)
Cost Breakdown:			-	Suid Source.	(
Ownership Cost/	Hour: \$75.75	8	Utilization % NA 100			
Operator Cost/ Total Unit Cost/	Hour: \$33.8' Hour: \$162.6	7 54	NA			
Total Fleet Cost	/Hour: \$162.0	64				
MATERIAL QUANT Initial volume: 7 Loose volume: 8	(<u>ITIES</u> ,300 3,5 0 5	CCY LCY	Swell factor	r: <u>1.165</u>		
Source Source of es	of estimated volume: stimated swell factor:	Division of Cat Handb	f Reclamation, M book	ining & Safet	у	
HOURLY PRODUC	<u>FION</u>					
Excavator Cycle Time (1	oad bucket, swing load	<u>led, dump bi</u>	icket, swing empt	<u>y):</u>		
Load Bucket Capacity	l Secondary Job Cor	Basic Job Co ndition withi	ndition Description n Basic Description Cycle Time Valu	on: <u>SEVER</u> on: <u>SEVER</u> ue: 0.445	E E	minutes
				Bucket Size (Class: Sn	nall
Rated Capacity Bucket Fill Facto Adjusted Capacity	y: <u>1.56</u> r: <u>0.925</u> y: 1.44	LCY (hea Loose mat	ped) terial - 1/8" to 3/8	" (90 - 95%) ().925	
Job Condition Correction	1 Factors		Site A	Altitude: <u>9600</u>	feet	
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HB (1 shift/day multiplier) /)	I CV/Hour		
A	Adjusted Hourly Unit F Adjusted Hourly Fleet F	Production: Production:	161.49 161.49	LCY/Hour LCY/Hour		
JOB TIME AND CO	<u>ST</u>					
Fleet size:	1 Excavator	r To	tal job time:	52.6	6	Hours
Unit cost: \$1.	007 /LCY		Total job cost:	<u>\$8</u> ,50	65	

Task description:	Doze Topsoil Pile	e 9A m west	i f ii		
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 060 Date: 3/13/2025 User: HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 060
Agency or organ	ization name:	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405					
Blade Type: Sem	i-Universal				
Attachment: <u>1-sh</u>	ank ripper				
Shift Basis: <u>1 per</u>	r day				
Data Source: (CR	G)				
Cost Breakdown					
COST DIEaKUOWII		I	Litilization 0/		
Ownership Cast/II		¢75216	<u>UIIIZation %</u>		
Ownership Cost/Hour:		\$255.10	INA 100		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
o ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		\$38 59	NΛ		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$482.22 \$ 482.22	400057			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:16 Swell factor:125	\$482.22 \$ 482.22 [TIES				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L	\$482.22 \$482.22 ITIES .CY				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volume	\$482.22 \$482.22 [TIES (CY ne:	of Reclamatic	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated swell	\$482.22 \$482.22 [TIES .CY he: Division of factor: Cat Hand	of Reclamation	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: Loose volume: 468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$482.22 \$482.22 [TIES .CY he: Division of factor: Cat Hand ION	of Reclamation	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:416 Swell factor:1.125 Loose volume:468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$482.22 \$482.22 [TIES CCY he: Division of factor: Cat Hand ION 100 feet	of Reclamation	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$482.22 \$482.22 [TIES CCY he: Division of factor: Cat Hand ION tion: 100 feet 1,243.2 LC	of Reclamation	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc	\$482.22 \$482.22 [TIES CCY he: Division of factor: Cat Hand ION tion: 1,243.2 LC cription: Consol	of Reclamation book	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Fleet Cost/Hour: Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	\$482.22 \$482.22 (TIES <u>CY</u> he: Division of factor: Cat Hand <u>ION</u> tion: 1,243.2 LC cription: Consol 0 % 7,600 feet	of Reclamation	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight:	\$482.22 \$482.22 [TIES <u>CY</u> he: Division of factor: Cat Hand <u>ION</u> tion: 100 feet 1,243.2 LC cription: Consol 0 % 7,600 feet 2,550 lbs/LCY	 of Reclamation book Y/hr idated stockp	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description:	\$482.22 \$482.22 [TIES <u>CY</u> he: Division of factor: Cat Hand <u>ION</u> tion: 100 feet 1,243.2 LC cription: Consol 0 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed		on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum: Source of estimated volum: Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction I	\$482.22 \$482.22 [TIES .CY he: Division of factor: Cat Hand ION tion: 1,243.2 LC cription: Consol 0 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor		on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum: Source of estimated volum: Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S	\$482.22 \$482.22 (TIES CY he: Division of factor: Cat Hand ION tion: 1,243.2 LC cription: Consol 0 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0.	<pre>voitor voitor voit</pre>	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S Material consistence	\$482.22 \$482.22 [TIES <u>CY</u> ne: Division of factor: Cat Hand <u>ION</u> tion: 100 feet 1,243.2 LC cription: Consol 0 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0. ncy: 1.	<pre>yousy</pre>	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 416 Swell factor: 1.125 Loose volume: 468 L Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S Material consistency	\$482.22 \$482.22 [TIES <u>CY</u> he: Division of factor: Cat Hand <u>ION</u> tion: 100 feet 1,243.2 LC cription: Consol 0 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0. ncy: 1. hod: 1.	<pre></pre>	on, Mining & Safety		

Net correction: 0.5390

Adjusted unit production:	670.08 LCY/hr
Adjusted fleet production:	670.08 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.720/LCY

Total job time:	0.70 Hours
Total job cost:	\$337

TRUCK/LOADER TEAM WORK

Task description:	Haul To	psoil from Stock	pile 15A to Facil	ities Area		
Site: Colowyo Coal M	ine	Permit Action	on: MT9		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	<u>TIFICATION</u>					
Task #: 061		State: Colora	ado	Ab	breviation: Nor	ne
Date: $3/12/2$	025 0	County: <u>Moffa</u>	t		Filename: 061	
	· · · ·					
Agency or	organization nam	ne: <u>DRMS</u>				
HOURLY EQUI	<u>PMENT COST</u>	<u>.</u>		Shift bas	sis: <u>1 per day</u>	
		Translan KO	Equipment Descri	ption		
1	ruck Loader Tea	-Loader: LET	MAISU 830E FOURNEAU L23	50		
Suppo	ort Equipment -L	oad Area: Cat	D11T - 11U			
	-Du	imp Area: Cat	D11T - 11U			
Road Ma	aintenance – Moto	or Grader: CA'	I`16M ter Tanker - 14 000) Gal		
	- •• a	ter fruck. wa	ter Tanker, 14,000) Oai.		
Cost Breakdown:	Truck/Loa	der Team	Support l	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	2	2	4	1	1
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29
Total work team cos	t/hour: <u>\$11,209</u>	.63				
MATERIAL QUA	ANTITIES					
Initial volume: Loose volume:	1,130,663 1,271,9	96 CCY LCY	Swell	factor: <u>1.125</u>		
Sou	rce of estimated	volume: Divis	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ll factor: Cat H	Handbook			
	Material Purcha	ase Cost: <u>\$0.00</u> tal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Canacity						
Truck Payload (weig	(ht) Basis:					
Material w	eight: 2,550		Pounds/LCY			
Descri	ption: <u>Earth -</u>	Dry packed	Derry			
Rated Pay Pavload Car	y10ad: <u>492,200</u> acity: 193.02	J	Pounds LCY			
i ayibad Cap	195.02					
	153.00	LCY				
--	---	---	--	---	--	------------------------------------
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	e Based on Number o	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
Rated Canacity:	53 000	I CV (heaped)	Bucl	ket Size Class: <u>N</u>	A	_
Bucket Fill Factor:	1 100	Other rock/div	rt mixtures (100	120%) 1 100		-
Adjusted Capacity:	58.300	LCY	It mixtures (100	-12070) 1.100		-
Job Condition Corrections:		S	ite Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	8)		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time	Numbo	r of Loading Tool De	assas Required to	Fill Truck	3 -	96696
Evoluting Tool Cycle Thire.	Inullide		asses Required to		ŀ	145555
Excavators and Front Snove	<u>IS:</u>					
Machine Cycle Time v Selected Value v	s. Job Conditio within this Basi	n Rating: <u>NA</u> ic Rating: NA				
Machine Cycle Time v Selected Value v Track Loaders –	s. Job Conditio within this Basi Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> iption:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.):	s. Job Conditio within this Basi Material Descr	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA	s. Job Conditio within this Basi Material Descr M	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: NA		 Dump: 0.100)	
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Conditio within this Basi Material Descr 	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Conditio within this Basi Material Descr M - Unadjusted Ba	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: Maneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, r	 Dump:0.100 naneuver):0) .725 minu	ıtes
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Conditio within this Basi Material Descr Unadjusted Ba	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: Maneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, r	Dump: 0.100) .725 minu Source	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4'	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: Maneuver: <u>NA</u> asic Loader Cycle Ti <u>' to 6" diameter 0.00</u>	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Conditio within this Basi Material Descr Material Ba Material 3/4' Conveyor or	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti 'to 6'' diameter 0.00 dozer piled 10 ft. hig	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	s. Job Conditio within this Basi Material Descr Material Ba Material 3/4' Conveyor or Common ow	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti <u>'to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and	me (load, dump, r gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	Ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s. Job Conditio within this Basi Material Descr Material Descr Material 3/4' Conveyor or Common ow Constant ope	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04	me (load, dump, r gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr Material Descr Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00	me (load, dump, r gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr N Unadjusted Ba Unadjusted Ba Unadjusted Ba Unadjusted Ba Conveyor or Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti i to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin A diameter L and	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr N Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti i to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and tration -0.04 get 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr Material Descr Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Ti 'to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat	Ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	s. Job Conditio within this Basi Material Descr N Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> interver: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	s. Job Conditio within this Basi Material Descr N Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ : 0.80 : 1.390	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti i to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	ites Minute
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time & Maneuver and Dump Time	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ : 0.80 : 1.390 : 1.20	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and vation -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.040 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	ttes Minute Minute Minute
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time Truck Load Time	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800 1.418 1.200	Ites Minute Minute Minute

Haul Rou	te:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2550.	00	3.00	3.00	6.00	1266	2.189	
Return R	oute				Haul Time:	2.189	minutes	
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	2550.	00	-3.00	3.00	0.00	3503	0.931	
				Total Tru	Return Time: ck Cycle Time:	0.931 6.538	minute	28 28
Loading Too Produ Truck Unit Produ	ol unit action action	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
		1,604.99	LCY/Hour		Adjusted for j	ob efficiency:	1,332.14	LCY/Hour
Optimal No. of Tr	rucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: 3,996	5.42 LCY	7/Hour
			Adjusted sing	le truck/loade	er team production	on: <u>3,926</u>	5.32 LCY	//Hour
			Adjusted multip	le truck/loade	er team productio	on: 7,85 2	2.64 LC	(/Hour
JOB TI	ME AN	ND COST						
Fleet	size:	2	Team(s)	r	Fotal job time:	161.9	8 He	ours
Unit	cost:	\$1.427	/LCY	,	Total job cost:	\$1,815,	772	

Task description:	Haul To	psoil from Pile 1	5B to West Pit			
Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	JTIFICATION					
Tesk #: 062		Stata: Colore	do	٨Ь	browintion. No.	no
Date: $3/12/2$	2025	County: Moffa	t	A0	Filename: 062	<u>ne</u>
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
ſ	Fruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LEI	$\frac{OURNEAU L23}{D11T - 11U}$	50		
oupp	-Di	imp Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	er Tanker, 14,000	Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	2	2	4	1	1
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29
Total work team constrained on the second se	st/hour: <u>\$11,209</u> [ANTITIES]	.63				
Initial volume	: 172,931	ССҮ	Swell	factor: <u>1.125</u>		
Loose volume	: 194,54	LCY				
So	urce of estimated	volume: Divis	ion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ell factor: Cat H	Iandbook			
	Material Purch	ase Cost: <u>\$0.00</u> otal Cost: <u>\$0.00</u>)			
	10	<u>40.00</u>	,			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:		Dans 1 / CV			
Material v Descr	veight: 2,550	Dry packed	Pounds/LCY			
Rated Pa	ayload: 492,20	0	Pounds			
Payload Ca	pacity: 193.02		LCY			

TT 1371	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
	1)2.00	201				
Final	l Truck Volume	Based on Number	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: N	JA	
Rated Capacity:	53.000	LCY (heaped))			
Bucket Fill Factor:	1.100	Other - rock/d	lirt mixtures (100)-120%) 1.100		_
Adjusted Capacity:	58.300	LCY	×	,		-
Job Condition Corrections	•		Site Altitude (ft):	7600 feet		
	- Truck	Loader	Source			
Altitude Adi	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HI	3)		
	0.020	0.012				
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	r of Loading Tool F	Passes Required to	Fill Truck:	<u> 3 </u> I	asses
Excavators and Front Shove	<u>els:</u>					
Machine Cycle Time y	vs. Job Condition	n Rating: NA				
Selected Value	within this Basi	c Rating: NA				
Track Loaders –	Material Descri	iption:				
Cycle Time Elements (min.)	:					
Cycle Time Elements (min.) Load: NA	: M	laneuver: NA		Dump: 0.10)	
Cycle Time Elements (min.) Load: NA	: M	Ianeuver: <u>NA</u>		Dump: 0.100) 	itor
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders	: M - Unadjusted Ba	Ianeuver: <u>NA</u> sic Loader Cycle T	ime (load, dump, 1	Dump: 0.100 maneuver): 0)).725 minu	ıtes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	: M - Unadjusted Ba	Ianeuver: NA nsic Loader Cycle T	ime (load, dump, 1	Dump: 0.100 maneuver):0 Factor (min.)) 0.725 mint Source	utes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	: M - Unadjusted Ba Material 3/4" Conveyor or	Ianeuver: <u>NA</u> nsic Loader Cycle T	ime (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) 0.725 minu Source (Cat HB) (Cat HB)	utes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	: - Unadjusted Ba Material 3/4" Conveyor or of Common own	Ianeuver: NA asic Loader Cycle T to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	: - Unadjusted Ba Material 3/4" Conveyor or o Common own Constant oper	Ianeuver: NA nsic Loader Cycle T do 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	: - Unadjusted Ba Material 3/4" Conveyor or o Common own Constant oper Nominal targe	Ianeuver: NA nsic Loader Cycle T http://www.commenter.com/ Note: Commenter 10 March	Fime (load, dump, p 0 igh and up 0.00 id loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	: - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targe	Ianeuver: NA nsic Loader Cycle T 2 to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle T	Time (load, dump, 1 0 igh and up 0.00 nd loaders -0.04 ime Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080) 0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	: - Unadjusted Ba Material 3/4" Conveyor or o Common own Constant open Nominal targe	Ianeuver: NA asic Loader Cycle T c to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Ti Adjusted Loa	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 -0.040 0.000 -0.080 0.645) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	: - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targe	Ianeuver: NA asic Loader Cycle T c to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle T Adjusted Load Net Load	Time (load, dump, p 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) 0.725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	: - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targe	Ianeuver: NA asic Loader Cycle T 2 to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390	0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time	: M - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targe : 0.80	Ianeuver: NA asic Loader Cycle T do 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Ti Adjusted Loa Net Load Minutes	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:	0 0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800	ites Minutes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	: M - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal target : 0.80 : 1.390	Ianeuver: NA asic Loader Cycle T control to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Tr Adjusted Loa Net Load Minutes Minutes	Time (load, dump, r 0 igh and up 0.00 nd loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) 0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	utes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	: M - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targe * 0.80 * 1.390 * 1.20	Ianeuver: NA asic Loader Cycle T to 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Tr Adjusted Loa Net Load Minutes Minutes Minutes Minutes	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude:	0.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	Ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time Sk Maneuver and Dump Time	: M - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal target : 0.80 : 1.390 : 1.20	Ianeuver: NA asic Loader Cycle T do 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Tr Adjusted Loa Net Load Minutes Minutes Minutes	Fime (load, dump, r 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.040 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude:	0.725 minutes 0.725 minutes 0.725 minutes 0.725 minutes 0.725 minutes 0.800 1.418 1.200 1.200	Minutes Minutes Minutes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 Material 3/4" Conveyor or of Common own Constant open Nominal target *: 0.80 *: 1.390 *: 1.20 	Ianeuver: NA asic Loader Cycle T co 6" diameter 0.00 dozer piled 10 ft. hi nership of trucks an ration -0.04 et 0.00 Net Cycle Tr Adjusted Loa Net Load Minutes Minutes Minutes	Time (load, dump, r 0 igh and up 0.00 id loaders -0.04 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.040 -0.040 0.000 -0.080 0.645 1.390 1.390	0.725 mi Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	nı

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2250.	00	-2.00	3.00	1.00	3503	1.233	
	Return Ro	oute:				Haul Time:	1.233	minu	tes
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	0	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	2250.	.00	2.00	3.00	5.00	3296	1.334	
Ŧ	i. T	1 .			Total True	Return Time: ck Cycle Time:	<u>1.334</u> 5.985	min min	utes
Lo	Dading 100 Produ Unit Produ	of unit action	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.3	32 LCY/Hour
much	enit i fout	etion	1,753.28	LCY/Hour		Adjusted for j	ob efficiency:	1,455.2	22 LCY/Hour
Optima	ll No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste Adjusted sing Adjusted multip	d hourly truck le truck/loade le truck/loade	k team productio r team productio r team productio	on: 4,365 on: 3,926 on: 7,852	5.66 L 5.32 L 2.64 L	.CY/Hour .CY/Hour .CY/Hour
	JOB TIN	ME AN	ND COST						
	Fleet	size:	2	Team(s)	Т	Total job time:	24.77	7	Hours
	Unit o	cost: _	\$1.427	/LCY	r	Fotal job cost:	\$277,7	16	

Site: Colowyo Coal M	ine	Permit Action	on: <u>MT9</u>		Permit/Job#: <u>C</u> 1	1981019
PROJECT IDEN Task #: <u>063</u>	TIFICATION	State: <u>Colora</u>	ado	Ab	breviation: <u>No</u>	ne
Date: $3/12/2$ User: HR1	.025	County: <u>Moffa</u>	t		Filename: 063	3
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	sis: <u>1 per day</u>	
т	ruck Loader Tea	m -Truck: KO	Equipment Descri MATSU 830F	ption		
	Tuek Elouder Teu	-Loader: LET	TOURNEAU L23	50		
Supp	ort Equipment -L	Load Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	T 16M			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Los	ader Team	Support 1	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA ©25.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Number of Units:	\$508.88	\$1,255.20	\$800.11	\$800.11	\$200.97	\$222.32
Group Subtotals:		\$4 541 92	Support:	\$5 160 66	Maint:	\$489.29
Tatal mark team and	¢10.101	97	Support	<i>\$2,100.00</i>	Truint.	¢107.27
Total work team cos	5/110u1. <u>910,191</u>	07				
MATERIAL QU	ANTITIES					
Initial volume: Loose volume:	3,201 3,60 1	CCY LCY	Swell	factor: <u>1.125</u>		
So	urce of estimated	volume: Divis	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ell factor: Cat H	Handbook			
	Material Purch	ase Cost: <u>\$0.00</u> otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u> Truck Payload (weighted by the second se	ght) Basis:		Davida (LCV			
Material v Descr	iption: 2,550	Dry packed	Pounds/LCY			
Rated Pa	yload: 492,20	0	Pounds			
Pavload Car	bacity: 193.02		LCY			

Struck Volume:						
	153.00 I	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 I	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buck	ket Size Class: <u>N</u>	A	_
Rated Capacity:	53.000	LCY (heaped)				-
Bucket Fill Factor:	1.100	Other - rock/di	irt mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections	<u>.</u>	S	Site Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	5)		
Job Efficiency:	0.830	0.830	(CAT HB	b)		
Not Committee	0.920	0.012				
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool P	asses Required to 1	Fill Truck:	3 p	basses
Excavators and Front Shove	ls:	-	-			
Machine Cycle Time v	s. Job Condition	n Rating: NA				
Selected Value	within this Basic	Rating: NA				
Selected Value Track Loaders –	within this Basic Material Descri	c Rating: NA				
Selected Value Track Loaders – Cycle Time Elements (min.):	within this Basic Material Descri	c Rating: NA ption:				
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA	within this Basic Material Descrip : 	c Rating: NA ption:		 Dump: 0.100)	
Selected Value Track Loaders – Cycle Time Elements (min.). Load: <u>NA</u>	within this Basic Material Descrij : 	c Rating: NA ption: aneuver: NA		Dump:0.100)	
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders -	within this Basic Material Descri 	c Rating: NA ption: aneuver: NA sic Loader Cycle T	ime (load, dump, r	Dump: 0.100) .725 minu	ıtes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	within this Basic Material Descrip 	c Rating: NA ption: aneuver: NA sic Loader Cycle T	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)) .725 minu Source	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u>	within this Basic Material Descrip Ma - Unadjusted Bas Material 3/4"	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	within this Basic Material Descrip Ma - Unadjusted Bas Material 3/4" Conveyor or d	c Rating: NA ption: aneuver: NA sic Loader Cycle T to 6" diameter 0.00 lozer piled 10 ft. hi	ime (load, dump, r) gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descrip Material Descrip Material 3/4" Conveyor or d Common own Constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Tr to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi pership of trucks and ation -0.04 et 0.00 Net Cycle Ti	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Jites
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi nership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	within this Basic Material Descrip 	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes Minutes Minutes	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude:) .725 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800 1.418 1.200	Ites Minutes Minutes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 within this Basic Material Description Material Jescription Unadjusted Base Material 3/4" Conveyor or description Constant oper Nominal target a. 0.80 a. 1.390 a. 1.20 	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 within this Basic Material Description Material Jescription Unadjusted Base Unadjusted Base Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Conveyor or description	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200 d, watered,	utes

Haul Rou	ite:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	400.0	0	3.00	3.00	6.00	1266	0.491	
Return R	oute:				Haul Time:	0.491	minutes	
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	400.0	0	-3.00	3.00	0.00	3503	0.318	
				Total Tru	Return Time: ck Cycle Time:	0.318 4.227	minute	es es
Loading Too Prod Truck Unit Prod	ol unit uction uction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
	-	2,482.40	LCY/Hour		Adjusted for j	ob efficiency:	2,060.39	LCY/Hour
Optimal No. of T	rucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste Adjusted sing Adjusted multip	ed hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	on: 4,120 on: 3,920 on: 7,852	D.78 LCY 5.32 LCY 2.64 LCY	Z/Hour Z/Hour Z/Hour
JOB TI	ME AN	ID COST						
Fleet	size:	2	Team(s)	r	Fotal job time:	0.46	i Ho	ours
Unit	cost: _	\$1.298	/LCY		Total job cost:	\$4,67	/4	

Task description:	Haul To	opsoil from Stock	xpile 15F to Facil	ities Area		
Site: Colowyo Coal N	line	Permit Action	on: <u>MT9</u>	·	Permit/Job#: <u>C1</u>	.981019
PROJECT IDEN	TIFICATION	[
Task #: 064	2025	State: <u>Colora</u>	ado	Ab	breviation: No	ne
User: HR1	2023	County. Mona	u		Fileliame. 004	;
A						
	PMENT COS	ne. <u>DRMS</u>		Shift bas	vis: 1 por dov	
HOUKLI EQU	I MENT COS	<u>.</u>		Shint bas	sis. <u>I per day</u>	
	Fruck Loader Tea	m -Truck: KO	Equipment Descri MATSU 830E	ption		
Supr	ort Fauinment -I	-Loader: LE	<u>100RNEAU L23</u> D11T - 11U	50		
Subt	-D	ump Area: Cat	D11T - 11U			
Road M	laintenance – Mot	or Grader: CA	T 16M			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Prookdown.	Tmult/Lo	adar Taam	Support	Equipmont	Maintanan	a Equipment
Cost Breakdown:	Truck/L0	Loader	Load Area	Dump Area	Motor Grader	Water Truck
0/ Litilization mashing	100	100	100	100	50	50
%Utilization-machine:	\$200.47	\$635.20	\$406.62	\$406.62	\$170.20	\$120.22
Ownership cost/hour:	\$209.47	\$035.29	\$490.02	\$490.02	\$179.39	\$130.32
% Utilization riper:	φ2/4.17 ΝΔ	\$381.00	\$524.90 NA	\$324.90 NA	φ39.82 ΝΛ	\$70.88 NA
Ripper own_cost/hour	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	4	2	2	4	1	1
Group Subtotals:	Work:	\$4,541.92	Support:	\$5,160.66	Maint:	\$489.29
Total work team co	st/hour: <u>\$10,19</u> 1	.87				
MATERIAL QU	ANTITIES					
Initial volume Loose volume	: 8,119 : 9,13	4 CCY LCY	Swell	factor: <u>1.125</u>		
Sc	ource of estimated	volume: Divis	sion of Reclamatio	on, Mining & Safe	ety	
Source	e of estimated swe	ell factor: Cat H	Handbook			
	Material Purch	ase Cost: <u>\$0.00</u>	0			
	10	Jai Cost. <u>50.00</u>	0			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis: veight: 2.550		Pounde/I CV			
Desci	ription: <u>2,330</u>	Dry packed				
Rated Pa	ayload: 492,20	0	Pounds			
Payload Ca	pacity: <u>193.02</u>	,	LCY			

	1.0.0.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
rajustea volume.	172.00					
Fina	l Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: <u>N</u>	A	_
Rated Capacity:	53.000	LCY (heaped)				
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100)-120%) 1.100		
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections	<u>.</u>	S	ite Altitude (ft.):	<u>7600</u> feet		
	– Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Times	: Number	r of Loading Tool Pa	asses Required to	Fill Truck:	<u> 3 </u>	asses
Excavators and Front Shove	<u>els:</u>					
Machine Cycle Time	vs. Job Conditio	n Rating· NA				
Selected Value	within this Basi	c Rating: <u>NA</u>				
Track Loaders -	- Material Descr	iption:				
	۱.					
Cycle Time Elements (min.)).					
Cycle Time Elements (min.) Load: NA). N	Ianeuver: NA		Dump: 0.100)	
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders	,. N - Unadjusted Ba	Ianeuver: <u>NA</u>	me (load, dump, 1	Dump: 0.100) .725 minu	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors	ν. - Unadjusted Βε	Ianeuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)) .725 minu Source	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	,. N - Unadjusted Ba	Ianeuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	ites -
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	- Unadjusted Ba	Ianeuver: <u>NA</u> nsic Loader Cycle Ti <u>to 6" diameter 0.00</u> dozer piled 10 ft. hij	me (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	- Unadjusted Ba Material 3/4" Conveyor or Common owi	Ianeuver: NA asic Loader Cycle Ti do 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and	me (load, dump, r gh and up 0.00 1 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites - -
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	- Unadjusted Ba - Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope	Ianeuver: NA asic Loader Cycle Ti <u>to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and ration -0.04	me (load, dump, r gh and up 0.00 1 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites -
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba - Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	Ianeuver: NA nsic Loader Cycle Ti 2 to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	me (load, dump, 1 gh and up 0.00 1 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba - Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	Ianeuver: NA nsic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti	me (load, dump, 1 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba - Unadjusted Ba Material 3/4" Conveyor or Conveyor or Common own Constant ope Nominal targ	Ianeuver: NA asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load	me (load, dump, 1 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	- Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	Ianeuver: NA asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	- Unadjusted Ba Material 3/4" Conveyor or Common own Constant ope Nominal targ	Ianeuver: NA asic Loader Cycle Ti control to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	 Vnadjusted Ba Material 3/4" Conveyor or Conveyor or Constant ope Nominal targ e: 0.80 	Ianeuver: NA asic Loader Cycle Ti control to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes 0.800 0.800	ites
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	 Unadjusted Ba Material 3/4" Conveyor or Conveyor or Constant ope Nominal targ e: 0.80 e: 1.390 	Ianeuver: NA asic Loader Cycle Ti do 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes	me (load, dump, r gh and up 0.00 1 loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418	Minutes
Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	e: 0.80 e: 1.390 e: 1.20	Ianeuver: NA asic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: ler Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.040 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	Minutes Minutes Minutes

	Haul Rout	te:							
	Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	650.00)	-7.00	3.00	-4.00	2545	0.365	
	Return Ro	ute.				Haul Time:	0.365	minutes	
	Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	U	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	650.00)	7.00	3.00	10.00	1789	0.649	
					Total Tru	Return Time: ck Cycle Time:	0.649 4.432	minute	es es
Lo Truck I	ading Too Produ Unit Produ	l unit ction _ ction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
		-	2,367.58	LCY/Hour		Adjusted for j	ob efficiency:	1,965.09	LCY/Hour
Optimal	l No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly true	k team production	on: 3,930).19 LCY	/Hour
				Adjusted sing	le truck/loade	er team production	on: <u>3,926</u>	5.32 LCY	/Hour
				Adjusted multip	le truck/loade	er team production	on: 7,852	2.64 LCY	/Hour
	JOB TIN	AE AN	D COST						
	Fleet s	size:	2	Team(s)]	Fotal job time:	1.16	E Ho	ours
	Unit c	cost:	\$1.298	/LCY	,	Total job cost:	\$11,85	55	

Site: Colowyo Coal M	ine	Permit Action	on: MT9		Permit/Job#: <u>C1</u>	1981019
PROJECT IDEN	TIFICATION	•				
Task #: 065 Date: $3/12/2$	2025	State: Colora County: Moffa	ado t	Ab	breviation: <u>No</u> Filename: <u>065</u>	ne 5
User: <u>HR1</u>						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
Г	ruck Loader Tea	m -Truck: KO	MATSU 830E			
Supp	ort Fauinment -I	-Loader: LE ²	<u>IOURNEAU L23</u> D11T - 11U	50		
Տաթթ	-Du	imp Area: Cat	D11T - 11U			
Road M	aintenance – Mote	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wa	ter Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	2	2	4	1	1
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29
Total work team cos	st/hour: <u>\$11,209</u>	.63				
MATEDIAL OII	ANTITIES					
<u>MATERIAL QU</u>	ANIIIES					
Initial volume	24,656	CCY	Swell	factor: <u>1.125</u>		
Source	of estimated swe	volume: Divis	sion of Reclamatic	on, Mining & Safe	ety	
Source	Material Purcha	ase Cost: $$0.00$)			
	То	otal Cost: \$0.00)			
	DUCTION					
HOUKLY PRO	DUCTION					
Truck Capacity:	100					
Truck Payload (wei	<u>ght) Basis:</u>		Pounde/I CV			
Descr	iption: $2,350$	Dry packed	I Julius/LC I			
Rated Pa	yload: 492,20	0	Pounds			
D 1 10	100.00		T OT I			

Struck Volume:						
	153.00 I	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 I	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buck	ket Size Class: <u>N</u>	A	_
Rated Capacity:	53.000	LCY (heaped)				-
Bucket Fill Factor:	1.100	Other - rock/di	irt mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections	<u>.</u>	S	Site Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	5)		
Job Efficiency:	0.830	0.830	(CAT HB	b)		
Not Committee	0.920	0.012				
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool P	asses Required to 1	Fill Truck:	3 p	basses
Excavators and Front Shove	ls:	-	-			
Machine Cycle Time v	s. Job Condition	n Rating: NA				
Selected Value	within this Basic	Rating: NA				
Selected Value Track Loaders –	within this Basic Material Descri	c Rating: NA				
Selected Value Track Loaders – Cycle Time Elements (min.):	within this Basic Material Descri	c Rating: NA ption:				
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA	within this Basic Material Descrip : 	c Rating: NA ption:		 Dump: 0.100)	
Selected Value Track Loaders – Cycle Time Elements (min.). Load: <u>NA</u>	within this Basic Material Descrij : 	c Rating: NA ption: aneuver: NA		Dump:0.100)	
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders -	within this Basic Material Descri 	c Rating: NA ption: aneuver: NA sic Loader Cycle T	ime (load, dump, r	Dump: 0.100) .725 minu	ıtes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	within this Basic Material Descrip 	c Rating: NA ption: aneuver: NA sic Loader Cycle T	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)) .725 minu Source	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u>	within this Basic Material Descrip Ma - Unadjusted Bas Material 3/4"	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	within this Basic Material Descrip Ma - Unadjusted Bas Material 3/4" Conveyor or d	c Rating: NA ption: aneuver: NA sic Loader Cycle T to 6" diameter 0.00 lozer piled 10 ft. hi	ime (load, dump, r) gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descrip Material Descrip Material 3/4" Conveyor or d Common own Constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Tr to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle T to 6" diameter 0.00 lozer piled 10 ft. hi pership of trucks and ation -0.04 et 0.00 Net Cycle Ti	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Jites
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi nership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	within this Basic Material Descrip 	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes Minutes Minutes	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude:) .725 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	Ites Minutes Minutes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 within this Basic Material Description Material Jescription Unadjusted Base Material 3/4" Conveyor or description Constant oper Nominal target a. 0.80 a. 1.390 a. 1.20 	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 within this Basic Material Description Material Jescription Unadjusted Base Unadjusted Base Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Con	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200 d, watered,	utes

Haul	Route:							
Seg #	# Ha (Ft	ul Distance)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	34	00.00	0.00	3.00	3.00	2409	1.949	
Retu	rn Route:				Haul Time: _	1.949	minute	2S
Seg #	# Ha (Ft	ul Distance)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	34	00.00	0.00	3.00	3.00	3503	1.348	
Looding	Toolun	*		Total Tru	Return Time: ck Cycle Time:	1.348 6.715	minu minu	ites
I Truck Unit I	Production Production	1 <u>4,730.51</u>	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	2 LCY/Hour
		1,562.68	LCY/Hour		Adjusted for j	ob efficiency:	1,297.03	<u>3</u> LCY/Hour
Optimal No.	of Trucks	:3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: 3,891	1.08 LO	CY/Hour
			Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: <u>3,891</u> on: 7,782	1.08 LO 2.17 LO	CY/Hour CY/Hour
JOB	B TIME	AND COST						
F	Fleet size:	2	Team(s)	<u> </u>	Fotal job time:	3.56	<u> </u>	Hours
1	Unit cost:	\$1.440	/LCY		Total job cost:	\$39,9	55	

Site: Colowyo Coal Mi	ine	Permit Action	on: MT9		Permit/Job#: C1	1981019			
<u>PROJECT IDEN</u>	TIFICATION								
Task #: 066	005	State: Colora	ado	Ab	breviation: No	ne			
Date: $3/12/20$ User: HR1	025 0	County: Motta	t		Filename: 066)			
		DDMS							
Agency of	organization nan					,			
HOURLY EQUIE	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>				
			Equipment Descri	ption					
Ti	ruck Loader Tea	m -Truck: KO	MATSU 830E	50					
-Loader: LETOURNEAU L2350 Support Equipment -Load Area: Cat D11T - 11U									
-Dump Area: Cat D11T - 11U									
Road Maintenance – Motor Grader: CAT 16M									
	- w a	ter Truck: wa	ter Tanker, 14,000	J Gal.					
Cost Breakdown:	Truck/Loa	der Team	Support l	Equipment	Maintenan	ce Equipment			
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck			
%Utilization-machine:	100	100	100	100	50	50			
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32			
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88			
%Utilization-riper:	NA	0	NA	NA	NA	NA			
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Uperator cost/nour:	\$25.24	\$30.85	\$38.59	\$38.59	\$27.76	\$21.12			
Number of Units:	\$308.88 A	\$1,233.20	\$800.11	\$800.11	\$200.97	\$222.32			
Group Subtotals:		\$4 541 92	Support:	\$5 160 66	Maint [.]	\$489.29			
	••••••••••••••••••••••••••••••••••••••	\$ 1 ,5 1 1.72	Support.	\$5,100.00	Want.	φ+07.27			
Total work team cost	t/hour: <u>\$10,191</u>	.87							
MATERIAL QUA	ANTITIES								
Initial volume:	47 142	CCV	Swell	factor: 1.125					
Loose volume:	53,03	5 LCY	Swell	1.125					
Sou	rce of estimated	volume: Divis	sion of Reclamation	on. Mining & Safe	etv				
Source	of estimated swe	ell factor: Cat H	Handbook						
	Material Purcha	ase Cost: <u>\$0.00</u>)			,			
	10	tal Cost: <u>\$0.00</u>)			,			
HOURLY PRO	DUCTION								
Truck Capacity:									
Truck Payload (weig	ht) Basis:								
Material w	eight: <u>2,550</u> ption: Farth -	Dry packed	Pounds/LCY						
Rated Pay	vload: 492,20	0	Pounds						
	102.02		LOW						

	153.00 1	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 L	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buc	kat Siza Class: N	Α.	
Rated Capacity:	53.000	LCY (heaped)	Buch	ket Size Class	A	-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100)-120%) 1.100		
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections:		Sit	te Altitude (ft.): 7	7600 feet		
	Truck	Loader	Source			
Altitude Adi:	1 000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
			(
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	sses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	Rating: NA				
Selected Value v	within this Basic	Rating: NA				
Track Loaders –	Material Descrip	ption:				
Cycle Time Flements (min):						
Cycle I file Lieffients (filli.).						
Load: NA	Ma	aneuver: NA		Dump: 0.100)	
Load: <u>NA</u> Wheel and Track Loaders -	 Unadjusted Bas	aneuver: <u>NA</u>	ne (load, dump, 1	Dump: 0.100)	tes
Uoad: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	 Unadjusted Bas	aneuver: <u>NA</u> sic Loader Cycle Tin	ne (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)) .725 minu Source	tes
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material:	Ma Unadjusted Bas Material 3/4" t	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	tes -
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Ma Unadjusted Bas Material 3/4" t Conveyor or d	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	tes - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tim to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u>	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> Sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: & Maneuver and Dump Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	tes - - - - Minute Minute Minute

Ha	ul Route	e:							
Seg	g #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		1700.0	00	2.00	3.00	5.00	1550	1.367	
Ret	turn Rou	ite.				Haul Time:	1.367	minutes	
Seg	g #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	5	(Ft)			(%)	(%)	(fpm)	Time (min)	
1		1700.0	00	-2.00	3.00	1.00	3503	0.726	
					Total Tru	Return Time: ck Cycle Time:	0.726 5.511	minute	es es
Loadin Truck Unit	ng Tool Produc t Produc	unit ction _	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
Truck Chi	t i fouut	-	1,904.06	LCY/Hour		Adjusted for j	ob efficiency:	1,580.37	LCY/Hour
Optimal No	o. of Tru	cks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	on: 3,160 on: 3,160 on: 6,321	0.75 LC* 0.75 LC* 1.49 LC*	Y/Hour Y/Hour Y/Hour
<u>JO</u>	B TIM	IE AN	D COST						
	Fleet si	ze:	2	Team(s)	r	Fotal job time:	8.39	Н	ours
	Unit co	ost:	\$1.612	/LCY	,	Total job cost:	\$85,50	06	

Page 1 of 3

TRUCK/LOADER TEAM WORK

Task description:	Haul To	psoil from Stock	pile 15I to Haul	Road A						
Site: Colowyo Coal M	line	Permit Actio	on: <u>MT9</u>]	Permit/Job#: <u>C</u>	1981019				
PROJECT IDEN	TIFICATION									
Task #: 067 Date: $3/12/2$ User: HR1 Agency or	2025	State: <u>Colora</u> County: <u>Moffa</u> ne: <u>DRMS</u>	ıdo t	Ab	breviation: <u>No</u> Filename: <u>06</u>	7				
HOURLY EQUI	PMENT COST	ſ		Shift bas	is: 1 per day					
Equipment Description Truck Loader Team -Truck: KOMATSU 830E -Loader: LETOURNEAU L2350 Support Equipment -Load Area: Cat D11T - 11U -Dump Area: Cat D11T - 11U										
Road M	aintenance – Mot	or Grader: CA	Γ 16M er Tanker 14 000) Gal						
-Water Truck: Water Tanker, 14,000 Gal. <u>Cost Breakdown:</u> Truck/Loader Team Support Equipment Maintenance Equipment										
	Truck	Loader	Load Area	Dump Area	Motor Grader	water Truck				
%Utilization-machine:	100	100	100	100	50 0 ± 170 20	50				
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32				
%Utilization-riper	\$274.17 NA	<u> </u>	\$324.90 NA	\$324.90 NA	\$39.82 NA	\$70.88 NA				
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12				
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32				
Number of Units:	4	2	2	4	1	1				
Group Subtotals:	Work:	\$4,541.92	Support:	\$5,160.66	Maint:	\$489.29				
Total work team con MATERIAL QU	st/hour: <u>\$10,191</u> ANTITIES	.87								
Initial volume Loose volume	: <u>38,402</u> : 43,20	2 CCY 2 LCY	Swell	factor: <u>1.125</u>						
So Source	urce of estimated of estimated swe Material Purch To	volume:Divisell factor:Cat Hase Cost:\$0.00otal Cost:\$0.00	ion of Reclamatic Iandbook))	on, Mining & Safe	ety					
HOURLY PRO	DUCTION									
<u>Truck Capacity:</u> <u>Truck Payload (wei</u> Material w Descr Rated Pa	ght) Basis: veight: 2,550 iption: Earth - iyload: 492,20	Dry packed	Pounds/LCY Pounds							
Payload Ca	pacity: 193.02		LCY							

Struck Volume:						
	153.00 I	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 I	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buck	ket Size Class: <u>N</u>	A	_
Rated Capacity:	53.000	LCY (heaped)				-
Bucket Fill Factor:	1.100	Other - rock/di	irt mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections	<u>.</u>	S	Site Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	5)		
Job Efficiency:	0.830	0.830	(CAT HB	b)		
Not Committee	0.920	0.012				
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool P	asses Required to 1	Fill Truck:	3 p	basses
Excavators and Front Shove	ls:	-	-			
Machine Cycle Time v	s. Job Condition	n Rating: NA				
Selected Value	within this Basic	Rating: NA				
Selected Value Track Loaders –	within this Basic Material Descri	c Rating: NA				
Selected Value Track Loaders – Cycle Time Elements (min.):	within this Basic Material Descri	c Rating: NA ption:				
Selected Value Track Loaders – Cycle Time Elements (min.): Load: NA	within this Basic Material Descrip : 	c Rating: NA ption:		 Dump: 0.100)	
Selected Value Track Loaders – Cycle Time Elements (min.). Load: <u>NA</u>	within this Basic Material Descrij : 	c Rating: NA ption: aneuver: NA		Dump:0.100)	
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders -	within this Basic Material Descri 	c Rating: NA ption: aneuver: NA sic Loader Cycle T	ime (load, dump, r	Dump: 0.100) .725 minu	ıtes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	within this Basic Material Descrip 	c Rating: NA ption: aneuver: NA sic Loader Cycle T	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)) .725 minu Source	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u>	within this Basic Material Descrip Ma - Unadjusted Bas Material 3/4"	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	within this Basic Material Descrip Ma - Unadjusted Bas Material 3/4" Conveyor or d	c Rating: NA ption: aneuver: NA sic Loader Cycle T to 6" diameter 0.00 lozer piled 10 ft. hi	ime (load, dump, r) gh and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descrip Material Descrip Material 3/4" Conveyor or d Common own Constant oper	c Rating: NA ption: aneuver: NA sic Loader Cycle Tr to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle T to 6" diameter 0.00 lozer piled 10 ft. hi pership of trucks and ation -0.04 et 0.00 Net Cycle Ti	ime (load, dump, r) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat	Jites
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi nership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	within this Basic Material Descrip Material Descrip Unadjusted Bas Material 3/4" Conveyor or d Common own Constant oper Nominal targe	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	utes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	within this Basic Material Descrip 	c Rating: NA ption: aneuver: NA sic Loader Cycle Ta to 6" diameter 0.00 lozer piled 10 ft. hi tership of trucks and ation -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load 7 Minutes Minutes Minutes	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude:) .725 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	Ites Minutes Minutes Minutes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 within this Basic Material Description Material Jescription Unadjusted Base Material 3/4" Conveyor or description Constant oper Nominal target a. 0.80 a. 1.390 a. 1.20 	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	utes
Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	 within this Basic Material Description Material Jescription Unadjusted Base Unadjusted Base Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Material 3/4" Conveyor or description Conveyor or description	c Rating: NA ption:	ime (load, dump, r) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200 d, watered,	utes

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	750.0	00	3.00	3.00	6.00	1266	0.768	
	Return Ro	oute:				Haul Time: _	0.768	minut	28
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	-	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	750.0	00	-3.00	3.00	0.00	3503	0.418	
					Total Tru	Return Time: ck Cycle Time:	0.418 4.604	mint	utes
Lo Truck J	ading Too Produ Unit Produ	l unit oction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.3	<u>2</u> LCY/Hour
			2,279.14	LCY/Hour		Adjusted for j	ob efficiency:	1,891.6	9 LCY/Hour
Optimal	l No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truc	k team production	on: 3,783	3.37 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,783$	<u>3.37</u> LO	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 7,560	<u>6.75</u> L0	CY/Hour
	JOB TIN	ME AN	ND COST						
	Fleet	size:	2	Team(s)	7	Fotal job time:	5.71		Hours
	Unit o	cost:	\$1.347	/LCY	,	Total job cost:	\$58,1	90	

Site: Colowyo Coal M	ine	Permit Activ	on: <u>MT9</u>		Permit/Job#: <u>C1</u>	981019		
PROJECT IDEN	TIFICATION	<u>]</u>						
Task #: 068		State: Colora	ado	Ab	breviation: Nor	ne		
Date: $3/12/2$	025	County: <u>Moffa</u>	ıt		Filename: 068	8		
User: <u>nk1</u>								
Agency or	organization nar	ne: DRMS						
HOURLY EQUI	PMENT COST	<u>Γ</u>		Shift bas	sis: <u>1 per day</u>			
		-	Equipment Descri	ption				
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	puon				
		-Loader: LE	FOURNEAU L23	50				
Suppo	rt Equipment -L	Load Area: Cat	$\frac{\text{DHT} - \text{HU}}{\text{DHT} - 11\text{U}}$					
Road Maintenance – Motor Grader: CAT 16M								
	-Wa	ter Truck: Wa	ter Tanker, 14,000) Gal.				
	T 1 (T	1 5	G (1)			F • •		
<u>Cost Breakdown</u> :	Truck/Loa	Loader	Support I	Equipment	Maintenan Motor Grader	Ce Equipment Water Truck		
	100	100	100	Dumprindu				
% Utilization-machine:	100	100	100	100	\$170.20	5(¢120.20		
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32		
%Utilization_riper:	φ2/4.17 ΝΔ	\$381.00	\$524.90 NA	5324.90 ΝΔ	\$39.82 ΝΔ	\$70.88 N/		
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12		
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32		
Number of Units:	6	2	2	4	1	1		
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29		
Total work team cos	t/hour: \$11,20 9	0.63						
	· · · ·							
MATERIAL QUA	<u>ANTITIES</u>							
Initial volume:	141,291	CCY	Swell	factor: 1.125				
Loose volume:	158,9	52 LCY						
Sou	rce of estimated	volume: Divis	sion of Reclamation	on, Mining & Safe	ety			
Source	of estimated swe	ell factor: Cat I	Handbook					
	Material Purch	ase Cost: <u>\$0.00</u>)					
		<u> </u>	5					
HOURLY PRO	DUCTION							
Truck Capacity:								
Truck Payload (weig	t) Basis:							
Material w	reight: <u>2,550</u>	D 1 1	Pounds/LCY					
Descri Rated Pay	ption: <u>Earth -</u> vload: <u>492.20</u>	Dry packed	Pounds					
I I I I I I I I I I I I I I I I I I I	, T/2,20	-	i ounuo					

Struck Volume:						
Heaned Volume	<u> 153.00 </u>	LCY				
	<u> 192.00 </u>	LCY				
Average Volume:	<u>172.50</u> I	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume I	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity			Due	het Size Classe N		
	52,000		Buc	ket Size Class:	A	-
Rated Capacity: _	53.000	LCY (neaped)	(10)	1200() 1 100		-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100)-120%) 1.100		
Adjusted Capacity: _	58.300	LCY				
Job Condition Corrections:	<u>:</u>	Si	te Altitude (ft.):	<u>7600</u> feet		
	Truck	Loader	Source	•		
Altitude Adj:	1.000	0.980	(CAT HI	3)		
Job Efficiency:	0.830	0.830	(CAT HI	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to	Fill Truck:	<u> 3 p</u>	asses
Excavators and Front Shove	ls:					
Machine Cycle Time v	s. Job Condition	Rating: <u>NA</u>				
Track Loaders –	Material Descrit	Rating: NA				
		Duon.				
Cycle Time Elements (min.):	:	puon.				
Cycle Time Elements (min.): Load: <u>NA</u>	: Ma	aneuver: NA		Dump: 0.100)	
Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	: Unadjusted Bas	aneuver: <u>NA</u> sic Loader Cycle Tir	me (load, dump, s	Dump:0.100 maneuver):0) .725 minu	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors	: Ma · Unadjusted Bas	aneuver: <u>NA</u> sic Loader Cycle Tir	me (load, dump, i	Dump: 0.100 maneuver):0 Factor (min.)) .725 minu Source	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	: Ma Unadjusted Bas Material 3/4" t	aneuver: <u>NA</u> sic Loader Cycle Tin	me (load, dump, s	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	ites -
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	: - Unadjusted Bas Material 3/4" t Conveyor or d	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 lozer piled 10 ft. hig	me (load, dump, i	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material 3/4" t Conveyor or d Common own	aneuver: NA sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and	me (load, dump, s h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material 3/4" t Conveyor or d Common own Constant opera	aneuver: <u>NA</u> sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04	me (load, dump, s h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00	me (load, dump, h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin	me (load, dump, me (load, dump, me di and up 0.00 loaders -0.04 me Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load	me (load, dump, h and up 0.00 loaders -0.04 me Adjustment: er Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: NA sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: NA sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, me (load, dump, me (load, dump, me) h and up 0.00 loaders -0.04 me Adjustment: er Cycle Time: "ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	me (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: 'ime per Truck: Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) a minutes minutes minutes 0.800	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	Material 3/4" t Onadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, s h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: 'ime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 I for site altitude: 4 I for site altitude: 4) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time K Maneuver and Dump Time	Material 3/4" t Onadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: NA sic Loader Cycle Tir to 6" diameter 0.00 lozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, me (load, dump, me (load, dump, me di and up 0.00 loaders -0.04 me Adjustment: er Cycle Time: "ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 I for site altitude: I for site altitude: I for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	Ites Minute Minute Minute

Haul Rou	ite:							_
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1500.	.00	-3.00	3.00	0.00	3503	0.837	
Peturn P	oute				Haul Time:	0.837	minutes	i -
Seg #	Haul	Distance	Grade (%)	Roll Res	Total Res	Velocity	Travel]
565 "	(Ft)	Distance	Grade (70)	(%)	(%)	(fpm)	Time (min)	
1	1500.	.00	3.00	3.00	6.00	2853	1.079	
				Total Tru	Return Time: ck Cycle Time:	1.079 5.334	minut	es es
Loading To Prod Truck Unit Prod	ol unit uction uction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
		1,967.24	LCY/Hour		Adjusted for j	ob efficiency:	1,632.81	LCY/Hour
Optimal No. of T	rucks:	2	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly true	k team production	on: 4,898	3.44 LC	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,926	5.32 LC	Y/Hour
			Adjusted multip	le truck/loade	er team production	on: 7,85 2	2.64 LC	Y/Hour
JOB TI	ME AN	ND COST						
Fleet	size:	2	Team(s)]	Fotal job time:	20.24	4 H	lours
Unit	cost:	\$1.427	/LCY	,	Total job cost:	\$226,9	04	

Site:Colowyo Coal MinePermit Action:MT9Permit/Job#:	C1981019									
PROJECT IDENTIFICATION										
Task #:069State:ColoradoAbbreviation:Date:3/12/2025County:MoffatFilename:	None 069									
User: HR1	007									
Agency or organization name: DRMS										
HOURLY EQUIPMENT COST Shift basis: 1 per day										
Equipment Description										
Truck Loader Team -Truck: KOMATSU 830E										
-Loader: LETOURNEAU L2350										
Support Equipment -Load Area: Cat D11T - 11U										
Road Maintenance – Motor Grader: CAT 16M										
-Water Truck: Water Tanker, 14,000 Gal.										
<u>Cost Breakdown</u> : Truck/Loader Team Support Equipment Mainte	enance Equipment									
The Load Area Dump Area Motor Grad										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	50 50									
Ownership cost/hour: \$209.47 \$635.29 \$496.62 \$496.62 \$179.	.39 \$130.32									
Operating cost/hour: $$2/4.1/$ $$581.06$ $$324.90$ $$324.90$ $$59$ $\%$ Utilization rinor:NA0NANA	.82 \$70.88									
% of unization-riper.NA0NA1Ripper own_cost/hour:NA\$0.00\$0.00\$0.00\$0.00	$\frac{NA}{00}$ $\frac{NA}{50.00}$									
Ripper own: cost/hour: NA \$0.00 <td>.00 \$0.00</td>	.00 \$0.00									
Operator cost/hour: \$25.24 \$36.85 \$38.59 \$38.59 \$27	.76 \$21.12									
Unit Subtotals: \$508.88 \$1,253.20 \$860.11 \$860.11 \$266	.97 \$222.32									
Number of Units: 6 2 2 4	1 1									
Group Subtotals: Work: \$5,559.68 Support: \$5,160.66 Mai	int: \$489.29									
Total work team cost/hour: <u>\$11,209.63</u>										
MATERIAL QUANTITIES										
Initial volume:936,531CCYSwell factor:1.125Loose volume:1,053,597LCY										
Source of estimated volume: Division of Reclamation Mining & Safety										
Source of estimated swell factor: Cat Handbook										
Material Purchase Cost: \$0.00										
Total Cost: <u>\$0.00</u>										
HOURLY PRODUCTION										
Truck Capacity: <u>Truck Payload (weight) Basis:</u>										
Description: Earth - Dry packed										
Rated Payload: 492,200 Pounds										
Payload Capacity: <u>193.02</u> LCY										

0, 1, 1, 1						
Struck Volume:	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	e Based on Number	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: <u>N</u>	ΙA	
Rated Capacity:	53.000	LCY (heaped	.)			_
Bucket Fill Factor:	1.100	Other - rock/	dirt mixtures (100)-120%) 1.100		_
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections	<u>:</u>		Site Altitude (ft.):	<u>7600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Numbe	er of Loading Tool	Passes Required to	Fill Truck:	3 1	passes
Everyotors and Front Shows	1	i of Louding 1001	usses required to		1	<i>ubbeb</i>
EXCAVATORS AND FROM SHOVE	1611					
Lacurators and From Shove	<u>15.</u>					
Machine Cycle Time v Selected Value	s. Job Conditic within this Bas	on Rating: <u>NA</u> ic Rating: NA				
Machine Cycle Time v Selected Value v Track Loaders –	s. Job Conditic within this Bas Material Desci	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.):	s. Job Conditic within this Bas Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.):	s. Job Conditic within this Bas Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:		 Dump: 0.100)	
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	rs. Job Conditic within this Bas Material Descr Material Material	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders -	rs. Job Conditic within this Bas Material Descu Material Descu Unadjusted Ba	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle 7	Γime (load, dump, r	 Dump:0.100 maneuver):0) .725 mint	utes
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	rs. Job Conditic within this Bas Material Descr M Unadjusted Ba	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle 7	Гіте (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.)) .725 min Source	utes
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	rs. Job Conditic within this Bas Material Descr Material Bas Unadjusted Ba	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle 7 " to 6" diameter 0.0	 Гіте (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 min Source (Cat HB)	utes —
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s. Job Conditic within this Bas Material Descr Unadjusted Ba Material 3/4'	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle 7 " to 6" diameter 0.0 r dozer piled 10 ft. h	Fime (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 min Source (Cat HB) (Cat HB)	utes
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	rs. Job Conditic within this Bas Material Descr Unadjusted Ba Material 3/4 ² Conveyor or Common ow	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle 7 <u>" to 6" diameter 0.0</u> dozer piled 10 ft. h mership of trucks a	Fime (load, dump, r 00 nigh and up 0.00 nd loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040) .725 min Source (Cat HB) (Cat HB) (Cat HB)	utes
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Haul Rout	e:						T 1	
Seg #	Haul D (Ft)	istance	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Time	
	(11)			(70)	(70)	(ipiii)	(min)	
1	3000.0	0	2.00	3.00	5.00	1550	2.205	
					Haul Time:	2.205	minutes	
Return Ro	ute:	•		D 11 D	T 1 D		T	
Seg #	Haul D	istance	Grade (%)	Roll. Res	Total Res	Velocity	Time	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	3000.0	0	-2.00	3.00	1.00	3503	1.097	
					Return Time:	1.097	minute	es
				Total Tru	ck Cycle Time:	6.720	minute	s
Loading Tool	l unit							
Produ	ction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
Truck Unit Produ	ction							
		1,561.52	LCY/Hour		Adjusted for j	ob efficiency:	1,296.06	LCY/Hour
Optimal No. of Tru	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	ed hourly truc	k team production	on: 3,888	8.19 LCY	//Hour
			Adjusted sing	le truck/loade	er team production	on: 3,888	8.19 LCY	/Hour
			Adjusted multip	le truck/loade	er team production	on: 7,77	6.38 LCY	/Hour
JOB TIM	IE ANI	<u>J COST</u>						
Fleet s	size:	2	Team(s)	[Fotal job time:	135.4	19 Ho	ours
Unit c	cost:	\$1.441	/LCY	,	Total job cost:	\$1,518,	758	

Task description:	Haul To	psoil from Pile 1	6E to South Tay	lor Pit		
Site: Colowyo Coal M	line	Permit Action	on: <u>MT9</u>		Permit/Job#: C1	1981019
PROJECT IDEN	TIFICATION					
Task #: 070		State: Colora	ado	Ab	breviation: No	ne
Date: $3/12/2$	2025	County: Moffa	t		Filename: 070)
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	Г		Shift bas	is: 1 per day	
		-	Equipment Descri	ption	<u> </u>	
]	Fruck Loader Tea	m -Truck: KO	MATSU 830E	puon		
		-Loader: LET	FOURNEAU L23	50		
Supp	ort Equipment -L Di-Di	Load Area: Cat	$\frac{\text{DITT} - \text{IIU}}{\text{D11T} - 11\text{U}}$			
Road M	aintenance – Mot	or Grader: CA'	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Prookdown	Truck/Lo	adar Taam	Support	Fauinmont	Mointonon	a Fauinmont
<u>Cost Breakuowii</u> ;	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	2	2	4	1	1
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29
Total work team co	st/hour: <u>\$11,209</u>	.63				
MATERIAL OU	ANTITIES					
Initial volume	: 851.824	CCY	Swell	factor: 1.125		
Loose volume	: 958,30	D2 LCY				
So	urce of estimated	volume: Divis	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ell factor: Cat H	Handbook		2	
	Material Purch	ase Cost: \$0.00)			
	10	50.00 x)			
HOURLY PRO	DUCTION					
Truck Capacity:	abt) Dealer					
<u>Iruck Payload (wei</u> Material y	gnt) Basis: veight: 2.550		Pounds/LCY			
Descr	ription: <u>Earth</u> -	Dry packed				
Rated Pa	ayload: 492,20	0	Pounds			
Payload Ca	pacity: <u>193.02</u>		LCY			

	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	e Based on Number o	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
Rated Canacity:	53 000	I CV (heaped)	Bucl	ket Size Class: <u>N</u>	A	_
Bucket Fill Factor:	1 100	Other rock/div	rt mixtures (100	120%) 1 100		-
Adjusted Capacity:	58.300	LCY	It mixtures (100	-12070) 1.100		-
Job Condition Corrections:		S	ite Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	8)		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time	Numbo	r of Loading Tool De	assas Required to	Fill Truck	3 -	96696
Evoluting Tool Cycle Thire.	Inullide		asses Required to		ŀ	145555
Excavators and Front Snove	<u>IS:</u>					
Machine Cycle Time v Selected Value v	s. Job Conditio within this Basi	n Rating: <u>NA</u> ic Rating: NA				
Machine Cycle Time v Selected Value v Track Loaders –	s. Job Conditio within this Basi Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> iption:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.):	s. Job Conditio within this Basi Material Descr	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption:				
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA	s. Job Conditio within this Basi Material Descr M	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: NA		 Dump: 0.100)	
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Conditio within this Basi Material Descr 	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: faneuver: <u>NA</u>		 Dump:0.100)	
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Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minu Source (Cat HB) (Cat	Ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	s. Job Conditio within this Basi Material Descr N Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti i to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	ites
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	s. Job Conditio within this Basi Material Descr N Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ : 0.80 : 1.390	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti i to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	ites Minute
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time & Maneuver and Dump Time	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ : 0.80 : 1.390 : 1.20	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and vation -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 0.040 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	ttes Minute Minute Minute
Machine Cycle Time v Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time Truck Load Time	s. Job Conditio within this Basi Material Descr Unadjusted Ba Material 3/4' Conveyor or Common ow Constant ope Nominal targ : 0.80 : 1.390 : 1.20	n Rating: <u>NA</u> ic Rating: <u>NA</u> iption: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti ito 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	Ites Minute Minute Minute

	Haul Rou	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
	1	3500	.00	2.00	3.00	5.00	1550	(min) 2.528	_
						Haul Time:	2.528	minut	es
_	Return Ro	oute:							
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	3000	.00	-2.00	3.00	1.00	3503	1.097	
					Total Tru	Return Time: ck Cycle Time:	1.097 7.043	min min	utes
Lo Truck	oading Too Produ Unit Produ	ol unit action action	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.3	2 LCY/Hour
			1,489.91	LCY/Hour		Adjusted for j	ob efficiency:	1,236.6	LCY/Hour
Optima	l No. of Ti	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly truc	k team production	on: 3,709	9.88 L	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 3,709	9.88 L	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 7,41 9	9.76 L	CY/Hour
	JOB TIM	ME AI	ND COST						
	Fleet	size:	2	Team(s)	-	Fotal job time:	129.1	.6	Hours
	Unit	cost: _	\$1.511	/LCY		Total job cost:	\$1,447,	783	

Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	TIFICATION	<u>]</u>				
Task #: 071		State: Colora	ado	Ab	breviation: <u>No</u>	ne
Date: $3/12/2$	2025	County: Moffa	t		Filename: 071	<u> </u>
User: HRI						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
]	Equipment Descri	ption		
Т	Truck Loader Tea	m - Truck: KO	MATSU 830E	50		
Supp	ort Equipment -I	-Loader: LEI	<u>D11T - 11U</u>	50		
Supp	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Prookdown	Truck/Lo	adar Taam	Support	Fauinmont	Maintanan	a Equipment
Cost Dreakuown:	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
	100	100	100	2 ump 1 um	50	
% Utilization-machine:	100 \$200.47	100 ¢c25.20	100	100	\$170.20	5U
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.52
Operating cost/nour:	\$2/4.1/	\$581.06	\$324.90	\$324.90	\$59.82 NA	\$70.88
% Ounzation-riper:		0 00	NA \$0.00	\$0.00	NA \$0.00	\$0.00
Ripper own: cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$0.00
Unit Subtotals:	\$508.88	\$1 253 20	\$860.11	\$860.11	\$266.97	\$222.30
Number of Units:	6	¢1,255.20 2	2	4	4200.97	φ <i>222.32</i>
Group Subtotals:	Work:	\$5 559 68	Support:	\$5 160 66	Maint [.]	\$489.29
Total work team cos	st/hour: \$11,209	0.63	Support	φ2,100.00		\$109. <u>2</u> 9
MATEDIAL OU	ANTITIES					
Initial volume	$\cdot 14520$	CCY	Swell	factor: 1.125		
Loose volume	16,33	5 LCY	Swein	<u>1.125</u>		
So	urce of estimated	volume: Divis	tion of Reclamatic	on Mining & Safe	2137	
Source	of estimated swe	ell factor: Cat H	Handbook	n, winnig & Sar	ly	
	Material Purch	ase Cost: \$0.00)			
	To	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei Material v	ght) Basis: veight: 2,550		Pounds/LCY			
Descr	iption: Earth -	Dry packed				
Rated Pa	yload: 492,20	0	Pounds			
Payload Ca	pacity: <u>193.02</u>		LCY			

Struck Volume:								
	153.00	LCY						
Heaped Volume:	192.00	LCY						
Average Volume:	172.50	LCY						
Adjusted Volume:	192.00	LCY						
Fin	al Truck Volum	e Based on Nu	umber of Load	er Passes:	174	4.90	LCY	
Loading Tool Capacity								
				Bucl	ket Size Cla	iss: NA	A	
Rated Capacity:	53.000	LCY (h	eaped)					
Bucket Fill Factor:	1.100	Other -	rock/dirt mixt	ures (100	-120%) 1.1	00		
Adjusted Capacity:	58.300	LCY						
Job Condition Correctior	IS:		Site Alti	tude (ft.): 7	7600 feet			
	Truck	Load	ler	Source				
Altitude Adj:	1.000	0.98	0	(CAT HB	3)			
Job Efficiency:	0.830	0.83	0	(CAT HB	3)			
Not Correction:	0.830	0.81	3					
Net Concentin.	0.030	0.01	.5					
	e: Numb	er of Loading	Tool Passes R	equired to]	Fill Truck		3	passes
Loading Tool Cycle Time	1 (01110	er or boading	10011 asses K		I III IIGOIL.			
Loading Tool Cycle Time	1	er of Louding	10011 asses R	1	i ili iliuun.			
Loading Tool Cycle Time Excavators and Front Show	<u>vels:</u>	er or zouurig	10011 asses R	1				
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value	<u>vels:</u> vs. Job Conditi e within this Bas	on Rating:	<u>NA</u> NA					
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value Track Loaders	<u>vels:</u> vs. Job Conditi e within this Bas – Material Desc	on Rating:	NA NA					
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min	vs. Job Conditi e within this Bas – Material Desc	on Rating: sic Rating: cription:	NA NA					
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min	<u>vels:</u> vs. Job Conditi e within this Bas – Material Desc .):	on Rating: sic Rating:	NA NA					
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA	vs. Job Conditi e within this Bas – Material Desc .):	on Rating: sic Rating: cription: Maneuver:	NA NA		Dump:	0.100		
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders	vs. Job Conditi e within this Bas – Material Desc .):	on Rating: sic Rating: cription: Maneuver: Basic Loader C	NA NA NA	- ad. dump. r	Dump:	0.100	725	minutes
Loading Tool Cycle Time Excavators and Front Sho Machine Cycle Time Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders	vs. Job Conditi e within this Bas – Material Desc .):	on Rating: sic Rating: cription: Maneuver: Basic Loader C	NA NA NA Cycle Time (loa	- ad, dump, r	Dump: Eactor (0.100 0.'	725	minutes
Loading Tool Cycle Time Excavators and Front Sho Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E	on Rating: sic Rating: cription: Maneuver: Basic Loader C	NA NA NA Cycle Time (loa	- id, dump, r	Dump: naneuver): Factor (0	0.100 	725	minutes e
Loading Tool Cycle Time Excavators and Front Sho Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Materials	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E	on Rating: sic Rating: cription: Maneuver: Basic Loader C	NA NA Vycle Time (loa ter 0.00	- ad, dump, r	Dump: naneuver): Factor (1 0.00	0.100 0. 0 00	725 Source (Cat HI (Cat HI	minutes e B)
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Materials Stockpile: Truck Ownership	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E	on Rating: sic Rating: cription: Maneuver: Basic Loader C 	NA NA Vycle Time (loa ter 0.00 0 ft. high and ucks and loaded	- ad, dump, r up 0.00	Dump: maneuver): Factor (1 0.00 0.00 -0.04	0.100 0. min.) 0 0	725 Source (Cat HI (Cat HI (Cat HI	minutes e 3) 3)
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor or Common ov	on Rating: sic Rating: cription: Maneuver: Basic Loader C <u>" to 6" diamet</u> r dozer piled 1 vnership of tru eration -0.04	NA NA Vycle Time (loa ter 0.00 0 ft. high and ucks and loader	nd, dump, r up 0.00 rs -0.04	Dump: maneuver): Factor (1 0.00 0.00 -0.04 -0.04	0.100 0. min.) 0 0 40	725 Source (Cat HI (Cat HI (Cat HI (Cat HI	minutes e B) B) B) B)
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor or Common ov Constant op	on Rating: sic Rating: cription: Maneuver: Basic Loader C content of the second sec	NA NA Cycle Time (loa ter 0.00 0 ft. high and icks and loader	- ad, dump, r up 0.00 rs -0.04	Dump: naneuver): Factor (r 0.00 0.00 -0.04 -0.04 0.00	0.100 0. 0 0 0 0 0 0 0 0 0	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI	minutes e B) B) B) B) B) B) B)
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Common ov Constant op	on Rating: sic Rating: cription: Maneuver: Basic Loader C ." to 6" diamet r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C	NA NA Vycle Time (loa ter 0.00 0 ft. high and icks and loader	- ad, dump, r up 0.00 rs -0.04 ustment:	Dump: maneuver): Factor (1 0.00 0.00 -0.04 -0.04 0.00 -0.08	0.100 0. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI	minutes <u>e</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u>
Loading Tool Cycle Time Excavators and Front Sho Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Common ov Constant op	on Rating: sic Rating: cription: Maneuver: Basic Loader C " to 6" diamet r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C Adjust	NA NA Vycle Time (loa ter 0.00 0 ft. high and icks and loader ycle Time Adj ed Loader Cyc	- ad, dump, r up 0.00 rs -0.04 ustment: le Time:	Dump: naneuver): Factor (1 0.00 0.00 -0.04 -0.04 0.00 -0.08 0.64	0.100 0. 0. 0 0 0 0 0 0 0 0 0 0 0 0 0	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI	minutes e B) B) B) B) B) B) CS SS
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Constant op Nominal tar	on Rating: sic Rating: cription: Maneuver: Basic Loader C 	NA NA NA Cycle Time (loa ter 0.00 0 ft. high and icks and loader ycle Time Adj ed Loader Cyc	up 0.00 rs -0.04 ustment: le Time:	Dump: maneuver): Factor (1 0.00 -0.04 -0.04 0.00 -0.04 0.00 -0.08 0.64 1.39	0.100 0. 0. 0 0 0 0 0 30 5 0	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI minute minute minute	minutes e B) B) B) B) B) B) B) B) B) B) B) B) B)
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Materials Stockpiles Truck Ownership Operations Dump Targets	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor or Common ov Constant op	on Rating: sic Rating: cription: Maneuver: Basic Loader C <u>" to 6" diamet</u> r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C Adjusta Net	NA NA Vycle Time (loa ter 0.00 0 ft. high and icks and loader ycle Time Adj ed Loader Cyc i Load Time pe	ad, dump, r up 0.00 rs -0.04 ustment: le Time: r Truck:	Dump: maneuver): Factor (1 0.00 0.00 -0.04 -0.04 0.00 -0.08 0.64 1.39	0.100 0.7 0.7 0 0 0 0 0 0 0 0 5 0 0	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI minute minute minute	minutes <u>e</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>B)</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Common ov Constant op	on Rating: sic Rating: cription: Maneuver: Basic Loader C " to 6" diamet r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C Adjusta	NA NA NA Cycle Time (loa ter 0.00 0 ft. high and icks and loader ycle Time Adj ed Loader Cyc	ad, dump, r up 0.00 rs -0.04 ustment: le Time:	Dump: naneuver): Factor (1 0.00 0.00 -0.04 -0.04 0.00 -0.08 0.64 1.39	0.100 0. 0. 0 0 0 0 0 0 0 0 5 0 0	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI minute minute minute	minutes e B) B) B) B) B) B) ES ES ES
Loading Tool Cycle Time Excavators and Front Shor Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Constant op Nominal tar	on Rating: sic Rating: cription: Maneuver: Basic Loader C :" to 6" diamet r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C Adjusta Net	NA NA NA Cycle Time (loa ter 0.00 0 ft. high and icks and loader ycle Time Adj ed Loader Cyc i Load Time pe	ad, dump, r up 0.00 rs -0.04 ustment: le Time: pr Truck:	Dump: maneuver): Factor (1 0.00 -0.04 -0.04 -0.04 0.00 -0.04 1.39 for site alti	0.100 0. 0. 0 0 0 0 0 0 5 0 tude:	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI minute minute minute 0.800	minutes e B)
Loading Tool Cycle Time Excavators and Front Sho Machine Cycle Time Selected Value Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Oycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Targets Truck Exchange Tim Truck Load Tim	vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Common ov Constant op Nominal tar	on Rating: sic Rating: cription: Maneuver: Basic Loader C " to 6" diamet r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C Adjust Net Minutes Minutes	NA NA NA Cycle Time (loa ter 0.00 0 ft. high and tcks and loader ycle Time Adj ed Loader Cyc Load Time pe	ad, dump, r up 0.00 cs -0.04 ustment: le Time: cr Truck: Adjusted Adjusted	Dump: maneuver): Factor (1 0.00 -0.04 -0.04 -0.04 0.00 -0.08 0.64 1.39 for site alti for site alti	0.100 0.' min.) 0 0 0 0 0 5 0 tude: tude:	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI minute minute minute 0.800 1.418	minutes e B) B) B) B) B) SS SS SS Minute Minute
Loading Tool Cycle Time Excavators and Front Show Machine Cycle Time Selected Valu Track Loaders Cycle Time Elements (min Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim Ck Maneuver and Dump Tim	relis: vs. Job Conditi e within this Bas – Material Desc .): s - Unadjusted E Material 3/4 Conveyor of Constant op Nominal tar ne: 0.80 ne: 1.390 ne: 1.20	on Rating: sic Rating: eription: Maneuver: Basic Loader C <u>" to 6" diameter</u> r dozer piled 1 vnership of tru eration -0.04 get 0.00 Net C Adjusto Net Minutes Minutes Minutes	NA NA Vycle Time (loa ter 0.00 0 ft. high and icks and loader ycle Time Adj ed Loader Cyc : Load Time pe	- ad, dump, r up 0.00 rs -0.04 ustment: le Time: er Truck: cr Truck:	Dump: maneuver): Factor (1 0.00 -0.04 -0.04 -0.04 0.00 -0.08 0.64 1.39 for site alti for site alti	0.100 0. min.) 0 0 0 0 0 5 0 tude: tude:	725 Source (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI (Cat HI minute minute minute 0.800 1.418 1.200	minutes e B) B]

Haul Ro	oute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2250.	00	2.00	3.00	5.00	1550	1.721	
					Haul Time:	1.721	minute	es
Return	Route:				_			
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	2250.	00	-2.00	3.00	1.00	3503	0.883	
				Total Tru	Return Time: ck Cycle Time:	0.883 6.022	minu minu	ntes
Loading T Pro Truck Unit Pro	ool unit duction duction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.3	2 LCY/Hour
	-	1,742.50	LCY/Hour		Adjusted for j	ob efficiency:	1,446.2	8 LCY/Hour
Optimal No. of	Trucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: 4,338	3.84 LO	CY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,926	5.32 LO	CY/Hour
			Adjusted multip	le truck/loade	er team production	on: 7,85 2	2.64 LO	CY/Hour
JOB T	'IME AN	ND COST						
Flee	et size:	2	Team(s)	r	Fotal job time:	2.08	.	Hours
Un	it cost:	\$1.427	/LCY		Total job cost:	\$23,32	18	

Site: <u>Colowyo Coal M</u>	ine	Permit Acti	on: <u>MT9</u>		Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	TIFICATION					
Task #: 072		State: Colora	ado	Ab	breviation: No	ne
Date: 3/12/2	2025	County: Moffa	ıt		Filename: 072	2
User: <u>HR1</u>						
Agency or	organization nam	ne: DRMS				
HOURLY EQUI	PMENT COST	_		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
Т	ruck Loader Tear	n -Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	-Loader: LE	<u>10URNEAU L23</u> D11T - 11U	50		
Supp	-Du	mp Area: Cat	D11T - 11U			
Road M	aintenance – Moto	or Grader: CA	T 16M			
	-Wa	ter Truck: Wa	ter Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Maintenan	ce Equipment
<u>cost Drealido (mi</u>	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
6Utilization-machine	100	100	100	100	50	5
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.3
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.8
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.1
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.3
Number of Units:	4	2	2	4	1	
Group Subtotals:	Work:	\$4,541.92	Support:	\$5,160.66	Maint:	\$489.29
Total work team cos	st/hour: <u>\$10,191</u>	.87				
MATERIAL QU	ANTITIES					
Initial volume: Loose volume:	9,467 10,65	CCY LCY	Swell	factor: <u>1.125</u>		
So	urce of estimated	volume: Divis	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ll factor: Cat I	Handbook	, 0	J	
	Material Purcha	se Cost: $\$0.00$)			
	10	tal Cost: <u>\$0.00</u>)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	ght) Basis:					
Material w	veight: 2,550	Dry pocked	Pounds/LCY			
Rated Pa	yload: 492.200)	Pounds			
	·					

Truck Bed (volume) Basis:						
Struck Volume:	153.00 L	CY				
Heaped Volume:	192.00 L	CY				
Average Volume:	172.50 L	CY				
Adjusted Volume:	192.00 L	CY				
·						
Final	Truck Volume E	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: <u>N</u>	A	_
Rated Capacity:	53.000	LCY (heaped)				
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY		i.		_
Job Condition Corrections:		Si	te Altitude (ft.): 7	7600 feet		
	Truck	Loader	Source			
Altitude Adi:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Committee	0.020	0.913				
Net Correction:	0.830	0.815				
Loading Tool Cycle Time:	Number of	of Loading Tool Pa	sses Required to	Fill Truck:	3 p	asses
Excavators and Front Shovel	s:					
Selected Value v	vithin this Basic	Rating: <u>NA</u> Rating: <u>NA</u>				
Track Loaders –	Material Descrip	tion:				
Cycle Time Elements (min.):						
Load: NA	Ma	neuver: NA		Dump: 0.100)	
	- 				705	4
wheel and Track Loaders -	Unadjusted Basi	ic Loader Cycle I in	ne (load, dump, r	maneuver): 0	./25 minu	ites
Cycle Time Factors	10/42	(1) 1: 0.00		Factor (min.)	Source	_
Material:	Material 3/4" to	<u>o 6" diameter 0.00</u>	1 1 0.00	0.000	(Cat HB)	_
Stockpile:	Conveyor or do	ozer piled 10 ft. hig	h and up 0.00	0.000	(Cat HB)	_
Truck Ownership:	Common owne	tion 0.04	loaders -0.04	-0.040	(Cat HB)	_
Dump Torget	Constant opera	$t_{100} - 0.04$		-0.040	(Cat HB)	_
Dump Target:	Nominal target	Not Cuolo Tim	a Adiustment	0.000	(Cat HB)	_
		A diverte d L and	e Aujustment.	-0.080		
		Adjusted Load	er Cycle Time:	0.045	minutes	
		Net Load 1	ime per Truck:	1.390	minutes	
Truck Cycle Time:						
Truck Exchange Time	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time	1.390	Minutes	Adjusted	for site altitude:	1.418	Minute
ck Maneuver and Dump Time	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return) Time:	Road Condition: I	Firm, smooth, rol		d. watered.	_
maintained 3.0			,	01 04		

Haul	Route:							
Seg #	Hau (Ft)	l Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	750.	00	0.00	3.00	3.00	2409	0.849	
					Haul Time:	0.849	minu	utes
Retur	n Route:				=			
Seg #	ŧ Hau	l Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	750.	00	0.00	3.00	3.00	3503	0.591	
				T : (-1 T :	Return Time:	0.591	mi	inutes
				Total Tru	ck Cycle Time:	4.858	mi	nutes
Loading P	Tool unit Production	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926	5.32 LCY/Hour
Truck Unit P	Production	2,159.98	LCY/Hour		Adjusted for j	ob efficiency:	1,792	
Optimal No. o	of Trucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 3.58	5.57	LCY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3.585	5.57	LCY/Hour
			Adjusted multip	le truck/loade	er team production	on: 7,17	1.15	LCY/Hour
JOB	TIME A	ND COST						
F	leet size:	2	Team(s)	r	Total job time:	1.49	1	Hours
τ	Jnit cost:	\$1.421	/LCY		Total job cost:	\$15,1	37	-

Page 1 of 3

TRUCK/LOADER TEAM WORK

Task description:	Haul To	opsoil from Stock	pile 18 to South	Taylor Pit		
Site: Colowyo Coal	Mine	Permit Actio	on: MT9		Permit/Job#: <u>C</u>	1981019
DDA IFOT IDF	ντιείς ατιον	r				
PROJECT IDE.	NIFICATION	<u>_</u>				
Task #: 073	/2025	State: Colora	ndo	Ab	breviation: No	ne
User: HR1	2023	County: Mona	l		Filename: 073)
A genery c	r organization par	ne: DRMS				
Agency	a organization nar					
HOURLY EQU	IPMENT COST	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
		1	Equipment Descri	ption		
	Truck Loader Tea	m -Truck: KO	MATSU 830E	50		
Sup	port Equipment -I	-Loader: LEI	<u>OURNEAU L23</u> D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	Aaintenance – Mot	or Grader: CA	<u>Γ 16M</u>			
	-Wa	iter Truck: Wat	er Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Los	ader Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$200.97	\$222.32
Group Subtotals:	o Work:	<u>2</u> \$6 577 <i>11</i>		\$5,160,66	I Maint:	\$489.29
	WOIK.	ψ0,377.44	Support.	\$5,100.00	Want.	φ 1 09.29
Total work team co	ost/hour: <u>\$12,227</u>	<u></u>				
MATERIAL O	JANTITIES					
Initial volum	a: 165.511	CCV	Swall	factor: 1125		
Loose volum	e: <u>403,344</u> e: 523,7 .	37 LCY	Swell	Idetto1. 1.125		
S	ource of estimated	volume: Divis	ion of Reclamatic	on Mining & Safe	>tv	
Sourc	e of estimated swe	ell factor: Cat H	Handbook		ly	
	Material Purch	ase Cost: \$0.00)			
	Te	otal Cost: <u>\$0.00</u>)			
HOURLY PRO	ODUCTION					
Truck Constitut						
<u>Truck Capacity:</u> Truck Pavload (we	ight) Basis:					
Material	weight: 2,550		Pounds/LCY			
Desc	ription: <u>Earth</u>	Dry packed	D. 1			
Rated F Payload C	ayload: <u>492,20</u>	U	Pounds LCY			
i ayıoad C	<u> </u>					
Struck Volume:	153.00 L	CY				
---	---	---	--	--	---	-------------------------------
Heaped Volume:	192.00 L	CY				
Average Volume:	172.50 L	.CY				
Adjusted Volume:	192.00 L	CY				
5 _						
Fina	l Truck Volume F	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class N	А	
Rated Canacity:	53 000	I CV (heaped)	200		· -	
Bucket Fill Factor	1 100	Other - rock/dirt	mixtures (100	-120%) 1 100		
Adjusted Capacity:	58.300	LCY	mixtures (100	-120/0/ 1.100		
5 1 5						
Job Condition Corrections	<u>s:</u>	Sit	e Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
Logding Tool Cycle Time	• Number	of Loading Tool Doo	sas Required to	Fill Truck	3	2202
Evaluation and Front Show		of Loading 1001 Pas	ses Required to	ГШ Писк	<u> </u>	5505
Excavators and Front Show	<u>eis:</u>					
Machine Cycle Time Selected Value	vs. Job Condition within this Basic	Rating: <u>NA</u> Rating: NA				
Track Loaders -	- Material Descrir	otion:				
Cycle Time Elements (min.)):					
Load: NA	Ma	neuver: NA		Dump: 0.100		
Wheel and Track Loaders	 Unadjusted Bas	ic Loader Cycle Tim	ne (load dump r	naneuver): 0	725 minute	20
Cuele Time Eestern		ie Loader Cycle I III	le (load, duilip, l	Easter (min.)	<u>125</u> Inniude	
Cycle Time Factors	Matarial 2/4224	- <u>(</u> ?) diamatan 0.00		Factor (min.)	Source (Cet UD)	
	Material 5/4 to	0.0 diameter 0.00		0.000	(Cat HB)	
Stockpile:	Conveyor or do	ozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	
Operation:	Constant opera	tion 0.04	10auers -0.04	-0.040	(Cat HP)	
Oberation						
Dumn Torgot:	Nominal target	0.04		0.040	(Cat HP)	
Dump Target:	Nominal target	t 0.00 Net Cycle Tim	e Adjustment:	0.000	(Cat HB) (Cat HB)	
Dump Target:	Nominal target	t 0.00 Net Cycle Tim	e Adjustment:	0.000 -0.080	(Cat HB) (Cat HB) minutes	
Dump Target:	Nominal target	0.00 Net Cycle Tim Adjusted Loade	e Adjustment: er Cycle Time:	0.000 -0.080 0.645 1 390	(Cat HB) (Cat HB) minutes minutes	
Dump Target:	Nominal target	1001 -0.04 20.00 Net Cycle Tim Adjusted Loade Net Load Ti	e Adjustment: er Cycle Time: me per Truck:	0.000 -0.080 0.645 1.390	(Cat HB) (Cat HB) minutes minutes minutes	
Dump Target: <u>Truck Cycle Time:</u>	Nominal target	Net Cycle Tim Adjusted Loade Net Load Ti	e Adjustment: er Cycle Time: me per Truck:	0.000 -0.080 0.645 1.390	(Cat HB) (Cat HB) minutes minutes minutes	
<u>Dump Target:</u> <u>Truck Cycle Time:</u> Truck Exchange Tim	e: 0.80	Net Cycle Tim Adjusted Loade Net Load Ti Minutes	e Adjustment: or Cycle Time: me per Truck: Adjusted	0.000 -0.080 0.645 1.390	(Cat HB) (Cat HB) minutes minutes minutes 0.800	Minutes
<u>Dump Target:</u> <u>Truck Cycle Time:</u> Truck Exchange Tim Truck Load Tim	e: 0.80 e: 1.390	Minutes	e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted	0.000 -0.080 0.645 1.390 for site altitude:	(Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418	Minutes
<u>Dump Target:</u> <u>Truck Cycle Time:</u> Truck Exchange Tim Truck Load Tim ck Maneuver and Dump Tim	e: 0.80 e: 1.390 e: 1.20	Minutes Minutes Minutes Minutes	e Adjustment: er Cycle Time: me per Truck: Adjusted Adjusted Adjusted	0.000 0.080 0.645 1.390 for site altitude: for site altitude: for site altitude:	(Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418 1.200	Minutes Minutes Minutes
<u>Dump Target:</u> <u>Truck Cycle Time:</u> Truck Exchange Tim Truck Load Tim ck Maneuver and Dump Tim	e: 0.80 e: 1.390 e: 1.20	Minutes Minutes Minutes	e Adjustment: er Cycle Time: me per Truck: Adjusted Adjusted Adjusted	0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude:	(Cat HB)(Cat HB)minutesminutesminutes0.8001.4181.200	Minutes Minutes Minutes
<u>Truck Cycle Time:</u> Truck Exchange Tim Truck Load Tim ck Maneuver and Dump Tim	e: 0.80 e: 1.390 e: 1.20 <u>n) Time:</u>	Minutes Minutes Minutes Minutes Minutes Minutes	e Adjustment: rr Cycle Time: me per Truck: Adjusted Adjusted Adjusted	0.000 -0.080 0.645 1.390 for site altitude: for site altitude: for site altitude: ling, dirt/lt. surfaced	(Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418 1.200 I, watered,	Minutes Minutes Minutes

Haul Re	oute:							
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	8000.	00	-2.00	3.00	1.00	3503	2.875	
					Haul Time:	2.875	minute	es
Return	Route:							
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	8000.	00	2.00	3.00	5.00	3296	3.079	
					Return Time:	3.079	minu	ites
				Total Tru	ck Cycle Time:	9.372	minu	utes
Loading T	ool unit							
Pro	duction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.3	2 LCY/Hour
Truck Unit Pro	duction							
	-	1,119.67	LCY/Hour		Adjusted for j	ob efficiency:	929.33	LCY/Hour
Optimal No. of	Trucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
			Adjuste	d hourly truc	k team production	on: 3,717	7.32 LO	CY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,717	7.32 LO	CY/Hour
			Adjusted multip	le truck/loade	er team production	on: 7,43 4	1.64 LO	CY/Hour
IOR T	'IME AN	JD COST						
<u>300 1</u>								
Flee	et size:	2	Team(s)	г	Total job time:	70.4	5	Hours
Un	it cost:	\$1.645	/LCY		Total job cost:	\$861,3	65	

Page 1 of 3

TRUCK/LOADER TEAM WORK

Task description:	Haul To	psoil from Stock	pile 27A to Hau	l Road A		
Site: Colowyo Coal M	line	Permit Action	on: MT9	·	Permit/Job#: <u>C</u>	21981019
PROJECT IDEN	TIFICATION					
Task #: 074 Date: $3/12/2$ User: HR1	2025	State: <u>Colora</u> County: <u>Moffa</u>	ado t	Ab	breviation: <u>N</u> Filename: <u>07</u>	one 14
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>		Shift bas	is: <u>1 per day</u>	
Т	ruck Loader Tea	m -Truck: KO	Equipment Descri MATSU 830E	ption		
Supp	ort Equipment -I	-Loader: LET	<u>FOURNEAU L23</u> D11T - 11U	50		
	-Di	ump Area: Cat	D11T - 11U			
Road M	aintenance –Mot	or Grader: CA	Т 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Breakdown•	Truck/Lo	ader Team	Support	Fauinment	Maintena	nce Equipment
COSt Di cuita di miti	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	4	2	2	4	1	1
Group Subtotals:	Work:	\$4,541.92	Support:	\$5,160.66	Maint:	\$489.29
Total work team cos	st/hour: <u>\$10,191</u>	.87				
MATERIAL QU	ANTITIES					
Initial volume: Loose volume:	14,520 16,33	5 CCY LCY	Swell	factor: 1.125		
Source	urce of estimated of estimated swe	volume: Divis ell factor: Cat H	sion of Reclamatic Handbook	on, Mining & Safe	ety	
	Material Purch To	ase Cost: <u>\$0.00</u> otal Cost: <u>\$0.00</u>)			
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u> <u>Truck Payload (wei</u> g	ght) Basis:					
Material	veight: 2,550	<u> </u>	Pounds/LCY			
Descr. Deted De	iption: Earth -	Dry packed	Dounds			
Rated Pa Pavload Car	$\frac{492,20}{193.02}$	0	LCY			

	153.00 1	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 L	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buc	kat Siza Class: N	Α.	
Rated Capacity:	53.000	LCY (heaped)	Buch	ket Size Class	A	-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100)-120%) 1.100		
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections:		Sit	te Altitude (ft.): 7	7600 feet		
	Truck	Loader	Source			
Altitude Adi:	1 000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
			(
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	sses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	Rating: NA				
Selected Value v	within this Basic	Rating: NA				
Track Loaders –	Material Descrip	ption:				
Cycle Time Flements (min):						
Cycle I file Lieffients (filli.).						
Load: NA	Ma	aneuver: NA		Dump: 0.100)	
Load: <u>NA</u> Wheel and Track Loaders -	 Unadjusted Bas	aneuver: <u>NA</u>	ne (load, dump, 1	Dump: 0.100)	tes
Uoad: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	 Unadjusted Bas	aneuver: <u>NA</u> sic Loader Cycle Tin	ne (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)) .725 minu Source	tes
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material:	Ma Unadjusted Bas Material 3/4" t	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	tes -
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Ma Unadjusted Bas Material 3/4" t Conveyor or d	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tim to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u>	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tim to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 0.800	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higj ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: & Maneuver and Dump Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	tes - - - - Minute Minute Minute

]	Haul Rout	e:							
:	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	1500	.00	-5.00	3.00	-2.00	3450	0.518	
1	Return Ro	ute:				Haul Time:	0.518	minut	es
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	-	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	1500	.00	5.00	3.00	8.00	2327	1.184	
Ţ					Total Tru	Return Time: ck Cycle Time:	<u>1.184</u> 5.120	min min	utes utes
Loa Truck I	ading Tool Produ Unit Produ	l unit ction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.3	2 LCY/Hour
		enon	2,049.46	LCY/Hour		Adjusted for j	ob efficiency:	1,701.0	05 LCY/Hour
Optimal	No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly true	k team production	on: 3,402	2.11 L	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: <u>3,402</u>	2.11 L	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 6,80 4	1.21 L	CY/Hour
:	<u>JOB TIN</u>	/IE Al	ND COST						
	Fleet s	size:	2	Team(s)]	Fotal job time:	2.40)	Hours
	Unit c	cost: _	\$1.498	/LCY	,	Total job cost:	\$24,40	68	

Page 1 of 2

Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #: 075 Date: 3/12/2025 User: HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 075
Agency or organ	nization name: DF	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	iversal				
Attachment: <u>I-sl</u>	hank ripper				
Data Source: (CF	RG)				
Cost Breakdown:		I	Utilization %		
Ownership Cost/Hour		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$27.44	NA		
Ripper op. Cost/Hour:		\$16.65	100		
Operator Cost/Hour:		\$38.59	NA		
MATERIAL QUANT	TTIES				
MATERIAL QUANT Initial Volume: 54,4 Swell factor: 1.00 Loose volume: 54,4	ITIES 36 0 36 L C X				
MATERIAL QUANT Initial Volume: 54,44 Swell factor: 1.000 Loose volume: 54,44 Source of estimated volume	ITIES 36 0 36 LCY		on Mining & Sofaty		
MATERIAL QUANT Initial Volume: 54,43 Swell factor: 1.00 Loose volume: 54,43 Source of estimated volu Source of estimated swell	TTIES 36 0 36 LCY ne: Division factor: Cat Hand	of Reclamati	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,44 Swell factor: 1.000 Loose volume: 54,44 Source of estimated volum Source of estimated swell	TTIES 36 0 36 LCY ne: Division 1 factor: Cat Hand	of Reclamati	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.000 Loose volume: 54,4: Source of estimated volur Source of estimated swell HOURLY PRODUCT	TTIES 36 0 36 LCY 36 LCY ne: Division factor: Cat Hand FION	of Reclamati	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.000 Loose volume: 54,4: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT	TTIES 36 0 36 LCY 36 LCY ne: Division factor: Cat Hand FION 100 feet	 of Reclamati book	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4 Swell factor: 1.00 Loose volume: 54,4 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	Division 36 0 36 LCY me: Division factor: Cat Hand Cat Hand CION ction: $\frac{100 \text{ feet}}{2,870.3 \text{ LC}}$	 of Reclamati book Y/hr	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.000 Loose volume: 54,4: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest	TTIES 36 0 36 LCY 36 LCY ne: Division factor: Cat Hand Flon ction: 100 feet ction: 2,870.3 LC ccription: Loose state	 of Reclamati book Y/hr stockpile 1.2	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4 Swell factor: 1.00 Loose volume: 54,4 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	TTIES 36 0 36 LCY ne: Division factor: Cat Hand factor: 236 LCY ne: Division factor: Cat Hand CION 100 feet ction: $2,870.3$ LC acription: Loose st -5% 7,600 feet	 of Reclamati book Y/hr stockpile 1.2	on, Mining & Safety 		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.000 Loose volume: 54,4: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight:	TTIES 36036 LCYme:Divisionfactor:Cat Handfactor: $Cat Hand$ CION ction:2,870.3 LCccription:Loose s-5 %7,600 feet2,550 lbs/LCY	 of Reclamati book Y/hr stockpile 1.2	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.00 Loose volume: 54,4: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average site altitude: Material weight: Weight description:	TTIES36036 LCYme:Divisionfactor:Cat HandCIONction: 100 feetction: $2,870.3$ LCccription:Loose s-5 %7,600 feet2,550 lbs/LCYEarth - Dry packed	 of Reclamati book Y/hr stockpile 1.2	on, Mining & Safety 		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.00 Loose volume: 54,4: Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	ITTIES 36 0 36 LCY ne: Division factor: Cat Hand factor: Cat Hand file 100 feet ction: $2,870.3$ LC acription: Loose s -5% $7,600$ feet $2,550$ lbs/LCY Earth - Dry packed Factor Factor	 of Reclamati book Y/hr stockpile 1.2	on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.00 Loose volume: 54,4: Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator 3	TTIES 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 9 100 feet 2,870.3 LC 100 feet 2,870.3 LC 100 feet 2,550 lbs/LCY 100 feet 2,550 lbs/LCY 100 feet Earth - Dry packed 100 feet Factor 100 feet Skill: 0		on, Mining & Safety		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.000 Loose volume: 54,4: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average site altitude: Material weight: Weight description: Iob Condition Correction Operator 5 Material consistence	ITTIES 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 36 0 16201 100 feet 2,870.3 LC acription: 2,870.3 LC acription: Loose : -5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0. ency: 1.		on, Mining & Safety Source (AB.AVG.) (CAT HB)		
MATERIAL QUANT Initial Volume: 54,4: Swell factor: 1.000 Loose volume: 54,4: Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator 3 Material consister Dozing me	ITTIES 36 0 36 LCY me: Division factor: Cat Hand I factor: Cat Hand CION IO0 feet ction: 2,870.3 LC ccription: Loose for -5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0. ency: 1. thod: 1.		on, Mining & Safety		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.115	(CAT HB)
Altitude:	0.930	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5031	
Adjusted unit production: 1,4	444.05 LCY/hr	
Adjusted fleet production: 14	44.05 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.626/LCY

Total job time:	37.70 Hours
Total job cost:	\$34,085

Page 1 of 3

TRUCK/LOADER TEAM WORK

Replace 48" of Topsoil on Aspen Study Area

Task description:

Site: Colowyo Coal M	on: MT9		Permit/Job#: <u>C</u>	1981019			
PROJECT IDEN	TIFICATION	ſ					
Task #: 076 Date: 3/12/2 User: HR1	<u>Colora</u> Moffa	ado t	Ab	breviation: <u>No</u> Filename: <u>076</u>	ne 5		
Agency of	organization nar	ne. <u>DRM</u>	3				
HOURLY EQUI	PMENT COST	<u> </u>			Shift bas	is: <u>1 per day</u>	
n	Fruck Loader Tea	m -Truck	KO	Equipment Descri MATSU 830E	ption		
	Truck Eduater Tea	-Loader:	LE	FOURNEAU L23	50		
Supp	ort Equipment -L	Load Area:	Cat	D11T - 11U			
Dead	-Di	ump Area:	Cat	D11T - 11U			
Koau IVI	-Wa	or Grader: ter Truck:	Wa	ter Tanker, 14,000) Gal.		
Cost Breakdown:	Truck/Loa	ader Team		Support l	Equipment	Maintenan	ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635	5.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$582	1.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$(0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$(0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$30	5.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253	3.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	<i></i>	2	2	4	1	
Group Subtotals:	Work:	\$5,559.68		Support:	\$5,160.66	Maint:	\$489.29
Total work team co <u>MATERIAL QU</u>	st/hour: <u>\$11,209</u>	0.63	COV		6 1.125		
Initial volume	: <u>77,440</u> · 87.12	0		Swell	factor: <u>1.125</u>		
So Source	urce of estimated of estimated swe Material Purch To	volume: ell factor: ase Cost: otal Cost:	Divis Cat I \$0.00 \$0.00	sion of Reclamatio Jandbook J	on, Mining & Safe	ety	
HOURLY PRO	DUCTION						
Truck Capacity: Truck Pavload (wei	ght) Basis:						
Material	weight: 2,550			Pounds/LCY			
Descr	ription: Earth -	Dry packed		D. 1			
Rated Pa Payload Ca	pacity: <u>492,20</u>	0		LCY			

	153.00 1	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 L	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buc	kat Siza Class: N	Α.	
Rated Capacity:	53.000	LCY (heaped)	Buch	ket Size Class	A	-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100)-120%) 1.100		
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections:		Sit	te Altitude (ft.): 7	7600 feet		
	Truck	Loader	Source			
Altitude Adi:	1 000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
			(
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	sses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	Rating: NA				
Selected Value v	within this Basic	Rating: NA				
Track Loaders –	Material Descrip	ption:				
Cycle Time Flements (min):						
Cycle I file Lieffients (filli.).						
Load: NA	Ma	aneuver: NA		Dump: 0.100)	
Load: <u>NA</u> Wheel and Track Loaders -	 Unadjusted Bas	aneuver: <u>NA</u>	ne (load, dump, 1	Dump: 0.100)	tes
Uoad: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	 Unadjusted Bas	aneuver: <u>NA</u> sic Loader Cycle Tin	ne (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)) .725 minu Source	tes
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material:	Ma Unadjusted Bas Material 3/4" t	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	tes -
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Ma Unadjusted Bas Material 3/4" t Conveyor or d	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u>	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 0.800	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418	tes
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Haul Route:

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Haul Time:1.642minutesNeturn Route: $\overline{Seg \#}$ Haul DistanceGrade (%)Roll. ResTotal ResVelocityTravel12500.001.003.004.0034111.213Return Time:1.213minutesTotal Truck Cycle Time:6.273minutesCoding Tool unit ProductionProduction4.730.51LCY/HourAdjusted for job efficiency:3.926.32LCY/Hour1.672.79LCY/HourAdjusted for job efficiency:1.388.41LCY/HourOptimal No. of Trucks:3Truck(s)Selected Number of Trucks:3Truck(s)Adjusted hourly truck team production:4.165.24LCY/HourLCY/HourAdjusted single truck/loader team production:3.926.32LCY/HourAdjusted multiple truck/loader team production:3.926.32LCY/HourAdjusted multiple truck/loader team production:1.08TIME AND COST1.09HoursUnit cost:1.427I.CYTotal job time:11.09Hours1.109Hours	-	1	2500	.00	-1.00	3.00	2.00	3328	1.642	
Seg # Haul Distance Grade (%) Roll. Res Total Res Velocity Travel 1 2500.00 1.00 3.00 4.00 3411 1.213 Return Time: 1.213 minutes Total Res Velocity Travel 1 2500.00 1.00 3.00 4.00 3411 1.213 Return Time: 1.213 minutes Total Truck Cycle Time: 6.273 minutes Loading Tool unit Production 4,730.51 LCY/Hour Adjusted for job efficiency: 3,926.32 LCY/Hour Truck Unit Production 1.672.79 LCY/Hour Adjusted for job efficiency: 1,388.41 LCY/Hour Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s) Adjusted hourly truck team production: 4,165.24 LCY/Hour Adjusted single truck/loader team production: 3,926.32 LCY/Hour Adjusted multiple truck/loader team production: 7,852.64 LCY/Hour 1.04 1.02 JOB TIME AND COST Fleet size: <		Dotum Do					Haul Time:	1.642	minute	S
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Return Time: 1.213 minutes Total Truck Cycle Time: 6.273 minutes Maintee 4,730.51 LCY/Hour Adjusted for job efficiency: 3.926.32 LCY/Hour Truck Unit Production 4,730.51 LCY/Hour Adjusted for job efficiency: 3.926.32 LCY/Hour 1,672.79 LCY/Hour Adjusted for job efficiency: 1,388.41 LCY/Hour Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 3 Truck(s) Adjusted hourly truck team production: 4,165.24 LCY/Hour LCY/Hour Adjusted multiple truck/loader team production: 4,165.24 LCY/Hour JOB TIME AND COST LCY/Hour 3.926.32 LCY/Hour Unit cost: \$1.427 /LCY Total job time: 11.09 Hours		1	2500	.00	1.00	3.00	4.00	3411	1.213	
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Fleet size: 2 Team(s) Total job time: 11.09 Hours Unit cost: \$1.427 /LCY Total job cost: \$124,364		JOB TIM	ME AN	ND COST						
Unit cost: \$1.427 /LCY Total job cost: \$124,364		Fleet	size:	2	Team(s)]	Fotal job time:	11.0	<u>9</u> I	Hours
		Unit	cost:	\$1.427	/LCY	,	Total job cost:	\$124,3	64	

TRUCK/LOADER TEAM WORK

Site: Colowyo Coal Mi	ine	Permit Actio	on: MT9		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	TIFICATION					
Task #: 077 Date: $3/12/20$	025	State: <u>Colora</u> County: <u>Moffa</u>	ado t	Ab	breviation: <u>No</u> Filename: <u>077</u>	ne 7
User: HR1						
Agency or	organization nan	ne: DRMS				
HOURLY EOUI	PMENT COST	1		Shift bas	is: 1 per day	
_		-	Equipment Descri	ption	<u></u>	
T	ruck Loader Tea	m -Truck: KO	MATSU 830E	ption		
	The impact of the second se	-Loader: LET	TOURNEAU L23	50		
Suppo	rt Equipment -L -Di	oad Area: Cat Imp Area: Cat	$\frac{\text{D111} - 110}{\text{D11T} - 110}$			
Road Ma	intenance – Moto	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
Cost Breakdown•	Truck/Log	der Team	Support	Fauipment	Maintenan	ce Fauinment
<u>Cost Di cundo mil</u>	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	2	2	<u><u></u> 4</u>		¢ 490 2 0
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29
Total work team cos	t/hour: <u>\$11,209</u>	.63				
MATERIAL OU	NTITIFS					
	50.077			6 . 1.105		
Initial volume:	<u> </u>	7 CCY	Swell	factor: 1.125		
Loose volume.	man of actimated	<u>, Divis</u>	ion of Doclomatic	n Mining & Sofe		
Source	of estimated swe	ll factor: Cat H	Handbook	on, winning & Sare	ety	
	Material Purcha	ase Cost: \$0.00)			
	То	tal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	(ht) Basis:					
Material w	eight: <u>2,550</u> ption: Earth	Dry packed	Pounds/LCY			
Rated Pay	yload: 492,20)	Pounds			

Struck Volume:	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
• <u> </u>						
Fina	l Truck Volume	Based on Number of	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
		1	Buc	ket Size Class: <u>N</u>	[A	_
Rated Capacity:	53.000	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100)-120%) 1.100		_
Adjusted Capacity:	58.300	LCY				
Job Condition Correction	<u>s:</u>	S	tite Altitude (ft.):	<u>7600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.813				
]			
Loading Tool Cycle Time	: Number	r of Loading Tool Pa	asses Required to	Fill Truck:	3 1	basses
Excavators and Front Show	ماه					
Executions and From SHOV	<u>c15.</u>					
Machine Cycle Time Selected Value	vs. Job Conditio within this Basi	n Rating: <u>NA</u> c Rating: NA				
Machine Cycle Time Selected Value Track Loaders -	vs. Job Condition within this Basi – Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption:				
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.	vs. Job Condition within this Basi – Material Descr):	n Rating: <u>NA</u> c Rating: <u>NA</u> iption:				
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA	vs. Job Condition within this Basi - Material Descr): M	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: NA		 Dump: 0.100)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA	vs. Job Condition within this Basi - Material Descr): 	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u>		 Dump:0.100)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders	vs. Job Conditio within this Basi - Material Descr): - Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100) . <u>725</u> min	ıtes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)) .725 min Source	ıtes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 min Source (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	vs. Job Condition within this Basi - Material Descr.): - Unadjusted Ba Material 3/4" Conveyor or	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig	me (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 min Source (Cat HB) (Cat HB)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba Material 3/4" Conveyor or Common own	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Ti <u>c to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and	me (load, dump, 1 gh and up 0.00 d loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040) Source (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba Material 3/4" Conveyor or Common own	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti <u>c to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and ration -0.04	me (load, dump, 1) gh and up 0.00 d loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba Material 3/4" Conveyor or Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	me (load, dump, 1 gh and up 0.00 d loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin	me (load, dump, 1 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080) .725 minutes	ites
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi - Material Descr): 	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti <u>to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> Material: <u>Stockpile:</u> Truck Ownership: <u>Operation:</u> Dump Target:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba Material 3/4" Conveyor or Conveyor or Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti <u>c to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minutes (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi - Material Descr): - Unadjusted Ba Material 3/4" Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim	e: 0.80 Condition	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:) .725 minutes (Cat HB) (Cat HB)	Ites
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim	e: 0.80	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Ti c to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418	utes Minute:
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim Xk Maneuver and Dump Tim	e: 0.80 e: 1.20	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti <u>c to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump:0.100 maneuver):0 Factor (min.) 0.000 -0.040 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minutes (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim K Maneuver and Dump Tim	e: 0.80 e: 1.20 e: 1.20 e: 1.20	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Ti <u>P to 6" diameter 0.00</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes	me (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200 d watered	utes

H	aul Route	:							
Se	eg #	Haul Di (Ft)	stance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		2500.00)	-1.00	3.00	2.00	3328	1.642	
R	eturn Rou	ite:				Haul Time: _	1.642	minute	S
Se	eg #	Haul Di (Ft)	istance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		2500.00)	1.00	3.00	4.00	3411	1.213	
Lood	ling Tool				Total Tru	Return Time: ck Cycle Time:	1.213 6.273	minu minu	tes tes
Truck Un	Produc Produc	tion	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
			1,672.79	LCY/Hour		Adjusted for j	ob efficiency:	1,388.41	LCY/Hour
Optimal N	lo. of Tru	cks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly true	k team production	on: 4,165	5.24 LC	Y/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,926$	5.32 LC	Y/Hour
				Adjusted multip	ie truck/loade	er team productio	011: 7,052	2.04 LC	I/HOUI
<u>J(</u>	OB TIM	E AND	O COST						
	Fleet si	ze:	2	Team(s)	ŋ	Fotal job time:	8.32	H	Iours
	Unit co	ost:	\$1.427	/LCY	,	Total job cost:	\$93,20	58	

TRUCK/LOADER TEAM WORK

Task description:	<u>Replace</u>	4" of Topsoil on Permit Activ	Tall Mountain S	Shrub Study Are	a Permit/Iob#: C1	981019
		I chilit Activ			<u> </u>	901019
PROJECT IDEN	TIFICATION	•				
Task #: 078	025	State: Colora	ado	Ab	breviation: <u>No</u>	ne
User: HR1	.025	County: Morra	ll		Filename: 078	5
Agency or	organization nar	ne: DRMS				
8 9	0					
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
	ruck Loador Too	m Truck: KO	Equipment Descri	ption		
1	TUCK LOAUET TEA	-Loader: LET	FOURNEAU L23	50		
Suppo	ort Equipment -L	load Area: Cat	D11T - 11U			
Road Ma	-Du	imp Area: Cat	D11T - 11U T 16M			
Koau Ivia	-Wa	ter Truck: Wat	ter Tanker, 14,000) Gal.		
			_			
<u>Cost Breakdown</u> :	Truck/Loa	ader Team	Support I	Equipment	Maintenan Motor Grader	ce Equipment Water Truck
	100	100	Load Area			
% Utilization-machine:	£200.47	100 \$625.20	100	100	\$170.20	\$120.22
Ownership cost/hour:	\$209.47	\$033.29	\$490.02	\$490.02	\$179.39	\$130.32
%Utilization-riper:	\$274.17 NA	\$381.00	\$524.90 NA	5324.90 NA	\$39.82 NA	\$70.88 NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	6	2	2	4	1	1
Group Subtotals:	Work:	\$5,559.68	Support:	\$5,160.66	Maint:	\$489.29
Total work team cos	t/hour: <u>\$11,209</u>	.63				
MATERIAL QUA	ANIIIE5					
Initial volume:	4,840		Swell	factor: <u>1.125</u>		
Loose volume.			· (D 1 /			
Sou Source	of estimated swe	ell factor: Cat H	andbook	on, Mining & Safe	ety	
	Material Purch	ase Cost: \$0.00)			
	То	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Canacity:						
Truck Payload (weig	ght) Basis:					
Material w	veight: 2,550		Pounds/LCY			
Descri Deted De	vload: <u>402.20</u>	Dry packed	Pounda			
Kaleu Pa	$\frac{492,20}{102,00}$	V	rounus			

	153.00	LCY				
Heaped Volume:	192.00 I	LCY				
Average Volume:	172.50 L	LCY				
Adjusted Volume:	192.00 I	LCY				
Final	Truck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buc	kat Siza Class: N	Α.	
Rated Capacity:	53.000	LCY (heaped)	Buch	ket Size Class	A	-
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100)-120%) 1.100		
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections:		Sit	te Altitude (ft.): 7	7600 feet		
	Truck	Loader	Source			
Altitude Adi:	1 000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
			(
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	sses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	Rating: NA				
Selected Value v	within this Basic	Rating: NA				
Track Loaders –	Material Descrip	ption:				
Cycle Time Flements (min):						
Cycle I file Lieffients (filli.).						
Load: NA	Ma	aneuver: NA		Dump: 0.100)	
Load: <u>NA</u> Wheel and Track Loaders -	 Unadjusted Bas	aneuver: <u>NA</u>	ne (load, dump, 1	Dump: 0.100)	tes
Uoad: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	 Unadjusted Bas	aneuver: <u>NA</u> sic Loader Cycle Tin	ne (load, dump, 1	Dump: 0.100 maneuver): 0 Factor (min.)) .725 minu Source	tes
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material:	Ma Unadjusted Bas Material 3/4" t	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000) .725 minu Source (Cat HB)	tes -
Uoad: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Ma Unadjusted Bas Material 3/4" t Conveyor or d	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high	ne (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000) .725 minu Source (Cat HB) (Cat HB)	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	tes - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00	ne (load, dump, r h and up 0.00 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.645	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> bic Loader Cycle Tim to 6" diameter 0.00 ozer piled 10 ft. hig ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u>	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> Sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes minutes	tes - - - -
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 0.800	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Exchange Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. higl ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080 0.645 1.390 for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800 1.418	tes
Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: & Maneuver and Dump Time:	Ma Unadjusted Bas Material 3/4" t Conveyor or d Common own Constant opera Nominal targe	aneuver: <u>NA</u> sic Loader Cycle Tin to 6" diameter 0.00 ozer piled 10 ft. high ership of trucks and ation -0.04 t 0.00 Net Cycle Tim Adjusted Loade Net Load Ti Minutes Minutes Minutes	ne (load, dump, r h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.000 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.645 1.390 1.390 for site altitude: for site altitude: for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.418 1.200	tes - - - - Minute Minute Minute

Haul Rout	e:			I				
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2500.	00	-1.00	3.00	2.00	3328	1.642	
Return Ro	ute				Haul Time:	1.642	minutes	
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2500.	00	1.00	3.00	4.00	3411	1.213	
				Total Tru	Return Time: ck Cycle Time:	1.213 6.273	minutes	S S
Loading Tool Produc Truck Unit Produc	l unit ction ction	4,730.51	LCY/Hour		Adjusted for j	ob efficiency:	3,926.32	LCY/Hour
	-	1,672.79	LCY/Hour		Adjusted for j	ob efficiency:	1,388.41	LCY/Hour
Optimal No. of Tru	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste Adjusted sing Adjusted multip	ed hourly truc le truck/loade le truck/loade	k team productio er team productio er team productio	on: 4,165 on: 3,920 on: 7,85 2	5.24 LCY 6.32 LCY 2.64 LCY	/Hour /Hour /Hour
JOB TIM	1E AN	D COST						
Fleet s	ize:	2	Team(s)	r	Fotal job time:	0.69	Ho	ours
Unit c	ost: _	\$1.427	/LCY		Total job cost:	\$7,77	/3	

•					
Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #· 079	State	Colorado		Abbreviation	None
Date: $3/12/2025$	<u> </u>	Moffat		Filename	079
User: HR1	County.	monut		i nonunio.	017
Agency or orga	nization name: D	RMS			
JOUDI V FOUIDMI					
Pagia Maghina: Cat	DOT OSU				
Horsepower: 404	5				
Blade Type: Ser	, ni-Universal				
Attachment: 1-s	hank ripper				
Shift Basis: 1 p	er day				
Data Source: (CI	RG)				
Soot Droolede	,		_		
LOST DIEaKOOWII:			Litilization %		
Ownership Cost/Hour		\$253.16	NA		
Operating Cost/Hour		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour:	\$482.22 \$482.22				
Total unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT	\$482.22 \$482.22 TTIES				
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume:4,19	\$482.22 \$482.22 TTTIES 5				
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12	\$482.22 \$482.22 TITIES 5 5				
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71	\$482.22 \$482.22 TTIES 5 5 9 LCY				
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volu	\$482.22 \$482.22 TTTIES 5 5 9 LCY me: Division	of Reclamati	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volution 4,00	\$482.22 \$482.22 TTTIES 5 5 9 LCY me: Division 1 factor: Cat Hand	of Reclamati	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volu Swell swel	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand	of Reclamati	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volu Source of estimated swel HOURLY PRODUCT	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand	of Reclamati	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volution 4,71 Source of estimated swell 4,00 HOURLY PRODUCT 4,00	\$482.22 \$482.22 TTIES 5 9 LCY me: Division 1 factor: Cat Hance FION 125 feet	of Reclamati lbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volution 4,00 Gource of estimated swell 4,00 HOURLY PRODUCT Average push distance: Jnadjusted hourly product 1	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION 125 feet 1,055.6 LC	of Reclamati dbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volution 4,71 Gource of estimated swell 4,00 HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency destinated	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION 125 feet ction: 1,055.6 LC scription: Conso	of Reclamati dbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volution 4,71 Source of estimated swell 4000000000000000000000000000000000000	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 1,055.6 LC scription: Conso	of Reclamati dbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volution 4,01 Gource of estimated swell 4,00 HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency destance: Average push gradient: Average push gradient:	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 1,055.6 LC scription: Conso 5 % 7 600 fact	of Reclamati dbook 2Y/hr lidated stockp	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volution 4,00 Source of estimated swell 4,00 HOURLY PRODUCT Average push distance: Jundjusted hourly product Materials consistency destance: Average push gradient: Average site altitude:	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 125 feet 1,055.6 LC scription: Conso 5 % 7,600 feet	of Reclamati dbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volution 4,71 Gource of estimated volution 4,71 Gource of estimated swell 4,71 HOURLY PRODUCT 4,71 Average push distance: 4,71 Materials consistency destance: 4,71 Average push gradient: 4,71 Average push gradient: 4,71 Average push gradient: 4,71 Average push gradient: 4,71 Average site altitude: 4,71	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 125 feet 1,055.6 LC scription: Conso 5 % 7,600 feet 2,550 lbs/LCY	of Reclamati of Reclamati lbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volution 4,00 Gource of estimated volution 4,71 Gource of estimated swell 4,71 HOURLY PRODUCT 4,71 Average push distance: 4,71 Inadjusted hourly product 4,71 Average push distance: 4,71 Average push distance: 4,71 Average push distance: 4,71 Average push distance: 4,71 Average push gradient: 4,71 Average site altitude: 4,71 Average site altitude: 4,71 Average site altitude: 4,71 Average site altitude: 4,71	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 125 feet 1,055.6 LC scription: Conso 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packe	 of Reclamati dbook 2Y/hr lidated stockp d	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volu: 4,71 Gource of estimated volu: 6000000000000000000000000000000000000	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 125 feet ction: 1,055.6 LC scription: Conso 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Factor	of Reclamati dbook	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volution 6000000000000000000000000000000000000	\$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 125 feet 1,055.6 LC scription: Conso 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packe Factor Skill: 0	of Reclamati dbook	 on, Mining & Safety oile 1.0 <u>Source</u> (AB.AVG.)		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Source of estimated volu: 6000000000000000000000000000000000000	\$482.22 \$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand EION ction: 125 feet ction: 1,055.6 LC scription: Conso 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0 ency: 1	 of Reclamati dbook 2Y/hr lidated stockp d .900 .000	on, Mining & Safety		
Cotal unit Cost/Hour: Cotal Fleet Cost/Hour: Cotal Fleet Cost/Hour: Initial Volume: 4,19 Swell factor: 1.12 Loose volume: 4,71 Gource of estimated volu 6000000000000000000000000000000000000	\$482.22 \$482.22 \$482.22 TTIES 5 5 9 LCY me: Division 1 factor: Cat Hand FION ction: 125 feet 1,055.6 LC scription: Conso 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packe Factor Skill: 0 ency: 1 thod: 1	 of Reclamati lbook 2Y/hr lidated stockp d .900 .000 .000	on, Mining & Safety		

Adjusted unit production:	513.76 LCY/hr
Adjusted fleet production:	513.76 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	9.19 Hours
Total job cost:	\$4,430

Colowyo Coal Min		.	n om Stock	she to Kan Loop I ond		
	e	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENT	FICATION					
Task #: 081		State:	Colorado		Abbreviation:	None
Date: 3/12/202	.5	County:	Moffat		Filename:	081
User: HR1						
Agency or or	ganization nar	ne: <u>DR</u>	RMS			
HOURLY EQUIPM	MENT COST	[
Basic Machine: 0	Cat D9T - 9SU					
Horsepower: 4	405					
Blade Type:	Semi-Universa	1				
Attachment:	-shank ripper					
Shift Basis:	per day					
Data Source:	CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Hou	r:		\$253.16	NA		
Operating Cost/Hou	r:		\$164.35	100		
Ripper own. Cost/Hou	r:		\$15.77	NA		
Ripper op. Cost/Hou	r:		\$10.35	100		
Operator Cost/Hou	r:		\$38.59	NA		
Initial Volume: 80)7					
Swell factor: 1.	125					
Swell factor: <u>1</u> . Loose volume: <u>9</u>	125)8 LCY					
Swell factor: <u>1</u> . Loose volume: <u>90</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance	125 18 LCY Jume: vell factor: CTION :12	Division Cat Hand	of Reclamati book	on, Mining & Safety		
Swell factor: <u>1</u> . Loose volume: <u>90</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro	125 08 LCY olume: vell factor: CTION : duction:	Division of Cat Hand	 of Reclamati book Y/hr	on, Mining & Safety		
Swell factor: <u>1</u> . Loose volume: <u>90</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency of	125 18 LCY Jume: Jell factor: Vell factor: CTION : 12 duction: 1,0 description:	Division of Cat Hand 5 feet 055.6 LC Consol	 of Reclamati book Y/hr idated stock	on, Mining & Safety		
Swell factor: <u>1</u> . Loose volume: <u>9</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency Average push gradient	125 98 LCY Jume: vell factor: CTION : 12 duction: 1,0 description: : 5 %	Division Cat Hand 5 feet 055.6 LC Consol	of Reclamati book Y/hr idated stock	on, Mining & Safety		
Swell factor: <u>1</u> . Loose volume: <u>90</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude:	125 98 LCY Jume: vell factor: 12 duction: 1,0 description: : 5 % 7,600 fee	Division of Cat Hand 5 feet 055.6 LC Consol	 of Reclamati book Y/hr idated stock	ion, Mining & Safety		
Swell factor: <u>1</u> . Loose volume: <u>9</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight:	125 98 LCY Jume: vell factor: vell factor: CTION : 12 duction: 1,0 description: : 5 % 7,600 fee 2,550 lbs	Division Cat Hand 5 feet 055.6 LC Consol t	 of Reclamati book Y/hr idated stock	on, Mining & Safety		
Swell factor: <u>1</u> . Loose volume: <u>9</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description:	125 98 LCY Jume: Jell factor: Jell factor: CTION : 12 duction: 1,0 description: : 5 % 7,600 fee 2,550 lbs Earth - D	Division Cat Hand 5 feet 055.6 LC Consol t LCY	 of Reclamation book Y/hr idated stock	ion, Mining & Safety		
Swell factor: 1. Loose volume: 90 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct	125 98 LCY Jume: vell factor: vell factor: CTION : 12 duction: 1,0 description: : 5 %	Division Cat Hand 5 feet 055.6 LC Consol t LCY ry packed	 of Reclamati book Y/hr idated stock	on, Mining & Safety		
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Swell factor: <u>1</u> . Loose volume: <u>90</u> Source of estimated vo Source of estimated sw <u>HOURLY PRODU</u> Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average site altitude: Material weight: Weight description: <u>Job Condition Correction</u> Operation	125 98 LCY Jume: vell factor: 12 duction: 1,0 description: : 5 % 7,600 fee 2,550 lbs Earth - D on Factor or Skill: istency: maths differency:	Division Cat Hand 5 feet 055.6 LC Consol t (LCY ry packed 0. 1.	 of Reclamati book Y/hr idated stocky 1 900 000	ion, Mining & Safety		
Swell factor: 1. Loose volume: 90 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency of Average push gradient Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correction Operate Material cons Dozing to	125 98 LCY Jume: vell factor: 12 duction: 1,0 description: 1,0 description: 2,550 lbs Earth - D on Factor or Skill: istency: method: sibility:	Division of Cat Hand 5 feet 55.6 LC Consol t (LCY ry packed 0. 1. 1.		ion, Mining & Safety		

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	le: 0.800	(FND-RF)
Push gradier	nt: 0.903	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigh	nt: 0.902	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.4867	
Adjusted unit production:	513.76 LCY/hr	
Adjusted fleet production:	513.76 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	1.77 Hours
Total job cost:	\$852

Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTI	FICATION				
Task #· 082	State	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename	082
User: HR1	0000000	monut		I nonunie.	002
Agency or org;	anization name: DI	RMS			
HOURLY FOUIPM	ENT COST				
Basic Machine: Ca	at D9T - 9SU				
Horsepower: 40)5				
Blade Type: Se	emi-Universal				
Attachment: 1-	shank ripper				
Shift Basis: 1	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
Total fleet Cost/Hour:	\$482.22 \$482.22 TITIES				
Total unit Cost/Hour: VATERIAL QUAN' Initial Volume: 2,42	\$482.22 \$482.22 TITIES 20				
VIATERIAL QUAN' Initial Volume: 2,42 Swell factor: 1.12	\$482.22 \$482.22 TITIES 20 25				
Initial Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 2,42 Swell factor: 1.12 Loose volume: 2,72	\$482.22 \$482.22 TITIES 20 25 23 LCY				
Total unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 2,42 Swell factor: 1.12 Loose volume: 2,72 Source of estimated volu	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division	 of Reclamati	on. Mining & Safety		
Initial Volume: 2,42 Swell factor: 1.12 Loose volume: 2,72 Source of estimated volu 3000000000000000000000000000000000000	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division cat Hance	 of Reclamati ibook	on, Mining & Safety		
Total unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 2,4 Swell factor: 1.12 Loose volume: 2,72 Source of estimated volu Source of estimated swe	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division ell factor: Cat Hance	of Reclamati lbook	on, Mining & Safety		
MATERIAL QUAN' Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated swe HOURLY PRODUC	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division cat Hance CTION	of Reclamati lbook	on, Mining & Safety		
WATERIAL QUAN' Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated swe HOURLY PRODUC	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division ell factor: Cat Hance CTION 125 fact	of Reclamati	on, Mining & Safety		
MATERIAL QUAN' Initial Volume: 2,4 Swell factor: 1.1 Loose volume: 2,7 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Inadjusted hourly production Initial volume	<u>\$482.22</u> TITIES 20 25 23 LCY ume: Division cat Hance CTION 125 feet 1055 6 LC	of Reclamati lbook	on, Mining & Safety		
MATERIAL QUAN' Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly produce 10'	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division cat Hance CTION uction: 125 feet 1,055.6 LC	of Reclamati lbook			
MATERIAL QUAN' Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly produ Materials consistency de	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division cat Hance CTION uction: 125 feet 1,055.6 LC escription: Consol	of Reclamati lbook	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly product Vaterials consistency de Average push gradient:	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division ell factor: Cat Hance CTION uction: 125 feet 1,055.6 LC escription: Consol 5 %	of Reclamati lbook	 on, Mining & Safety pile 1.0		
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Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 2,4 Swell factor: 1.1 Loose volume: 2,7 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly product Vaterials consistency de Average push gradient: Average site altitude: Material weight:	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division cat Hance CTION uction: 125 feet 1,055.6 LC escription: Consol 5 % 7,600 feet 2,550 lbs/LCY	 of Reclamati lbook Y/hr lidated stockp	ion, Mining & Safety		
Initial Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,4 Swell factor: 1.1 Loose volume: 2,7 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly product Vaterials consistency de Average push gradient: Average site altitude: Vaterial weight: Weight description:	\$482.22 \$482.22 TITIES 20 25 23 LCY ume: Division cat Hance CTION uction: 125 feet 1,055.6 LC escription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packe	 of Reclamati lbook Y/hr lidated stockp d	ion, Mining & Safety		
MATERIAL QUAN Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated volu Source of estimated swe MOURLY PRODUC Average push distance: Jnadjusted hourly produ Materials consistency de Average site altitude: Average fush gradient: Average site altitude: Material weight: Weight description: Ob Condition Correctio Source to state	$\frac{$482.22}{$482.22}$ $TITIES$ 20 25 23 LCY ume: Division ell factor: Cat Hance $TION$ uction: 125 feet uction: 1,055.6 LC escription: Consol $\frac{5 \%}{7,600 \text{ feet}}$ 2,550 lbs/LCY Earth - Dry packe on Factor	 of Reclamati lbook 'Y/hr lidated stockp d	ion, Mining & Safety		
Total fleet Cost/Hour: MATERIAL QUAN Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Jnadjusted hourly produ Vaterials consistency de Average push gradient: Average site altitude: Vaterial weight: Veight description: Ob Condition Correctio Operator	$\frac{$482.22}{$482.22}$ $TITIES$ 20 25 23 LCY ume: Division cat Hance 21 factor: Cat Hance 21 factor: 1,055.6 LC cat Hance 25 % 7,600 feet 2,550 lbs/LCY Earth - Dry packe n Factor r Skill: 0	of Reclamati book			
MATERIAL QUAN' Initial Volume: 2,4' Swell factor: 1.1' Loose volume: 2,7' Source of estimated volu 2,7' Source of estimated swe 2,7' Source of estimated swe 4' HOURLY PRODUC 4' Average push distance: Jnadjusted hourly produce Vaterials consistency de 4' Average push gradient: 4' Verage site altitude: ' Vaterial weight: ' Weight description: ' Operator ' Material consist '	$\begin{array}{r c c c c c c c c c c c c c c c c c c c$	 of Reclamati lbook 2Y/hr lidated stockp d .900 .000	ion, Mining & Safety		
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Job efficience	zy:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	0.800	(FND-RF)
Push gradie	nt:	0.903	(CAT HB)
Altitud	le:	1.000	(CAT HB)
Material Weig	nt:	0.902	(CAT HB)
Blade typ	be:	1.000	(PAT)
Net correction	on: 0.4867		
Adjusted unit production:	513.76 LCY/h	ır	
Adjusted fleet production:	513.76 LCY/h	ır	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	5.30 Hours
Total job cost:	\$2,555

Colowyo Coal Mi	ine	Peri	nit Action:	MT9		Permit/Job#:	C1981019
PROJECT IDEN	FIFICATIO	DN					
Task #: 083 Date: $3/12/20$	025	State: County:	Colorado Moffat			Abbreviation: Filename:	None 083
User: HR1							
Agency or o	organization r	name: DR	RMS				
HOURLY EQUIP	PMENT CO	<u>ST</u>					
Basic Machine:	Cat D9T - 9	SU					
Horsepower:	405	_					
Blade Type:	Semi-Unive	rsal					
Attachment:	1-shank ripp	ber					
Shift Basis:	1 per day			_			
Data Source:	(CRG)						
Cost Breakdown:							
				<u>U</u> t	<u>ilization %</u>		
Ownership Cost/Ho	our:		\$25 <u>3.16</u>		NA		
Operating Cost/Ho	our:		\$164.35		100		
Ripper own. Cost/Ho	our:		\$15.77		NA		
Ripper op. Cost/Ho	our:		\$10.35		100		
Operator Cost/Ho	our:		\$38.59		NA		
Total unit Cost/Hour Total Fleet Cost/Hou	: <u>\$482.2</u> ir: \$482.2 ANTITIES	22					
Iotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor:	: <u>\$482.2</u> r: <u>\$482.2</u> ANTITIES 4,679 1.125	22					
Iotal unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	: <u>\$482.2</u> ir: <u>\$482.2</u> ANTITIES 4,679 1.125 5,264 LCY	22 22					
Iotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated source of estimated source	: <u>\$482.2</u> ar: <u>\$482.2</u> ANTITIES <u>4,679</u> <u>1.125</u> 5,264 LCY volume: swell factor:	22 22 		on, Minin	g & Safety		
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Iotal unit Cost/Hour Fotal Fleet Cost/Hour Initial Volume: Swell factor: Loose volume: Source of estimated source of estimated source of estimated source HOURLY PRODU Average push distance Inadjusted hourly pr	:	22 22 		<u></u> on, Minin 	g & Safety		
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Initial Volume: Swell factor: Loose volume: Source of estimated v Source of estimated v Average push distance Jnadjusted hourly pu	:	2 2 2 <u>Division of</u> Cat Hand <u>125 feet</u> 1,055.6 LC <u>Consol</u>		<u>on, Minin</u>	g & Safety		
Iotal unit Cost/Hour Fotal Fleet Cost/Hour Initial Volume: Swell factor: Loose volume: Source of estimated volume Source of estimated volume Source of estimated volume Average push distance Jnadjusted hourly put Vaterials consistence Average push gradie:	: <u>\$482.2</u> r: <u>\$482.2</u> ANTITIES 4,679 1.125 5,264 LCY volume: swell factor: UCTION ce: roduction: y description: nt: <u>5 %</u> 7 600	22 22 Division of Cat Hand 125 feet 1,055.6 LC Consol feet		on, Minin 	g & Safety		
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Initial Volume: Swell factor: Loose volume: Source of estimated volume: Source of estimated volume: Average push distance Average push gradie: Average push gradie: Average site altitude: Average site altitude: Average site altitude:	:	2 2 2 Division of Cat Hand 125 feet 1,055.6 LC' Consol feet lbs/LCY Dry packed		<u>on, Minin</u> bile 1.0	g & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PRODI Average push distance Juadjusted hourly pr Materials consistence Average site altitude: Average fush gradie: Average site altitude: Material weight: Weight description: Ob Condition Correct	:	2 2 2 Division of Cat Hand 125 feet 1,055.6 LC' Consol feet lbs/LCY Dry packed		on, Minin	g & Safety		
Iotal unit Cost/Hour Fotal Fleet Cost/Hour Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PRODI Average push distance Average push distance Average push gradie: Average site altitude Material weight: Weight description: Operation: Operation:	:	2 2 2 Division of Cat Hand 125 feet 1,055.6 LC Consol feet lbs/LCY Dry packed 0.		<u>on, Minin</u> 	g & Safety		
Initial Volume: Swell factor: Swell factor: Loose volume: Source of estimated volume: Average push distance Average push distance Average push gradie: Average site altitude: Average site altitude: Material weight: Weight description: Operation: Material control	:	22 22 22 Division of Cat Hand 125 feet 1,055.6 LC' Consol feet lbs/LCY Dry packed 0. 1.		on, Minin	g & Safety <u>Source</u> (AB.AVG.) (CAT HB)		
Initial Volume: Swell factor: Loose volume: Source of estimated volume: Average push distance Average push distance Average push gradie: Average site altitude: Average site altitude: Material weight: Weight description: Operation: Material con Dozing	: <u>\$482.2</u> anticest set in the set of the s	22 22 22 Division of Cat Hand 125 feet 1,055.6 LC' Consol feet lbs/LCY Dry packed 0. 1.		on, Minin	g & Safety <u>Source</u> (AB.AVG.) (CAT HB) (GEN.)		

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	le: 0.800	(FND-RF)
Push gradier	nt: 0.903	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigh	nt: 0.902	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: 0.4867	
Adjusted unit production:	513.76 LCY/hr	
Adjusted fleet production:	513.76 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	10.25 Hours
Total job cost:	\$4,941

Colowyo Coal Mille	Pern	nit Action:	MT9	Permit/Job#:	C1981019
		· · · · · ·			
<u>PROJECT IDENTIFI</u>	<u>ICATION</u>				
Task #: 084	State:	Colorado		Abbreviation:	None
Date: <u>3/12/2025</u>	County:	Moffat		Filename:	084
User: HR1					
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	<u>NT COST</u>				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405	1				
Blade Type: Sen	ni-Universal				
Attachment: 1-sl	hank ripper				
Shift Basis: 1 pe	er day				
Data Source: (CF	RG)				
Cost Brockdowr					
COST DIEaKUOWII			Utilization %		
Ownershin Cost/Hour		\$253.16	N A		
Operating Cost/Hour		\$164.35	100		
Rinner own Cost/Hour		\$15.77	N A		
Ripper own. Cost/Hour:		\$10.35	100		
Operator Cost/Hour		\$28.50	100		
MATERIAL OUANT	TTIFS				
MATERIAL QUANT	1TIES 0	_			
MATERIAL QUANT Initial Volume: 1,210 Swell factor: 1.12: Loose volume: 1,36:	ITIES 0 5 1 LCY	_			
MATERIAL QUANT Initial Volume: 1,210 Swell factor: 1.12: Loose volume: 1,36 Source of estimated volur	TTIES 0 5 1 LCY ne: Division o	 of Reclamati	ion, Mining & Safety		
MATERIAL QUANT Initial Volume: 1,210 Swell factor: 1.12: Loose volume: 1,36: Source of estimated volur Source of estimated swell	ITTIES 0 5 1 LCY ne: Division of the constraint of the constrain	 of Reclamati pook	ion, Mining & Safety		
MATERIAL QUANT Initial Volume: 1,210 Swell factor: 1.12. Loose volume: 1,36. Source of estimated volur Source of estimated swell	Division of factor:	– – o <u>f Reclamati</u> pook	ion, Mining & Safety		
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MATERIAL QUANT Initial Volume: 1,210 Swell factor: 1.12: Loose volume: 1,36 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	ITTIES 0 5 1 LCY ne: Division of Liston of Cat Handb 1 factor: Cat Handb FION ction: 125 feet ction: 1,055.6 LCY scription: Consoli 5 %		ion, Mining & Safety		
MATERIAL QUANT Initial Volume: 1,21 Swell factor: 1.12 Loose volume: 1,36 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	ITTIES 0 5 1 LCY ne: Division of Construction of Cat Handber Ca	 of Reclamati book //hr dated stockp	ion, Mining & Safety 		
MATERIAL QUANT Initial Volume: 1,21/ Swell factor: 1.12. Loose volume: 1,36 Source of estimated volu Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight:	ITTIES 0 5 1 LCY ne: Division of Cat Handber 1 factor: Cat Handber CION 125 feet ction: 1,055.6 LCY ccription: Consoli 5 % 7,600 feet 2,550 lbs/LCY		ion, Mining & Safety		
MATERIAL QUANT Initial Volume: 1,21' Swell factor: 1.12: Loose volume: 1,36 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average site altitude: Material weight: Weight description:	ITTIES 0 5 1 LCY ne: Division of 1 factor: Cat Handbeet Cat Handbeet Cat Handbeet Consoling 125 feet ction: 1,055.6 LCY accription: Consoling 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed		ion, Mining & Safety		
MATERIAL QUANT Initial Volume: 1,21 Swell factor: 1.12 Loose volume: 1,36 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	ITTIES 0 5 1 LCY ne: Division of Carl Handber of Carl Ha	 of Reclamati pook //hr dated stockj	ion, Mining & Safety		
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MATERIAL QUANT Initial Volume: 1,21 Swell factor: 1.12. Loose volume: 1,36 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistent	TTIES 0 5 1 LCY ne: Division of 1 factor: Cat Handbeet File Cat Handbeet CION 125 feet ction: 1,055.6 LCY acription: Consoli 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.9 ency: 1.0		ion, Mining & Safety		
MATERIAL QUANT Initial Volume: 1,21' Swell factor: 1.12. Loose volume: 1,36 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste Dozing met	TTIES 0 5 1 LCY ne: Division of Cat Handb 1 factor: Cat Handb FION ction: 125 feet 1,055.6 LCY ccription: Consoli 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.9 ency: 1.0		ion, Mining & Safety pile 1.0 Gamma Source (AB.AVG.) (CAT HB) (GEN.)		

Job efficient	y: 0.83	30	(1 SHIFT/DAY)
Spoil pi	e: 0.80	00	(FND-RF)
Push gradie	nt: 0.90)3	(CAT HB)
Altitud	le: 1.00	00	(CAT HB)
Material Weig	nt: 0.90)2	(CAT HB)
Blade typ	e: 1.00	00	(PAT)
Net correction	n: <u>0.4867</u>		-
Adjusted unit production:	513.76 LCY/hr		
Adjusted fleet production: 513.76 LCY/hr			-

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	2.65 Hours
Total job cost:	\$1,278

Page 1 of 2

Joron jo Cour mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 085	State:	Colorado		Abbreviation:	None
Date: <u>3/12/2025</u>	County:	Moffat		Filename:	085
User: HR1					
Agency or organi	ization name:	RMS			
HOURLY EQUIPMEN	NT COST				
Basic Machine: Cat I	D9T - 9SU				
Horsepower: 405					
Blade Type: Semi	i-Universal				
Attachment: 1-sha	ank ripper				
Shift Basis: 1 per	r day				
Data Source: (CRO	G)				
Cost Breakdown:			TT/11		
Ownership Cost/Hour		\$252 16	Utilization %		
Operating Cost/Hour:		\$164.35	100		
Rinner own Cost/Hour:		\$1577	N A		
Rinner on Cost/Hour		\$10.35	100		
Operator Cost/Hour		\$10.55	100		
MATERIAL QUANTI	TIES				
MATERIAL QUANTI Initial Volume: <u>5,808</u>	<u>TTES</u>				
MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Volume: 5,24					
MATERIAL QUANTIInitial Volume:5,808Swell factor:1.125Loose volume:6,534	LCY				
MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum	LCY he: Division	 of Reclamati	on, Mining & Safety		
MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated swell	LCY he: Division factor: Cat Hand	of Reclamati	on, Mining & Safety		
MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated swell for the system	LCY he: Division factor: Cat Hand	of Reclamati	on, Mining & Safety		
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MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product	LCY he: <u>Division</u> factor: <u>Cat Hand</u> ION <u>125 feet</u> tion: <u>1,055.6 LC</u>	 of Reclamati book Y/hr	on, Mining & Safety		
MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc	LCY he: Division factor: Cat Hand ION tion: 125 feet tion: 1,055.6 LC cription: Consol	 of Reclamati book book Y/hr idated stocky	ion, Mining & Safety		
MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc	LCY he: <u>Division</u> factor: <u>Cat Hand</u> ION tion: <u>125 feet</u> tion: <u>1,055.6 LC</u> cription: <u>Consol</u>	 of Reclamati book book Y/hr idated stockj	on, Mining & Safety		
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MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight:	ITES LCY ne: Division factor: Cat Hand ION tion: 125 feet 1,055.6 LC cription: Consol 5 % 7,600 feet 2,550 lbs/LCY	 of Reclamati book Y/hr idated stockj	ion, Mining & Safety		
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MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction H	ITES ILCY ne: Division factor: Cat Hand ION 125 feet tion: 1,055.6 LC cription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0.	 of Reclamati book Y/hr idated stockj 1 900	ion, Mining & Safety		
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MATERIAL QUANTI Initial Volume: 5,808 Swell factor: 1.125 Loose volume: 6,534 Source of estimated volum Source of estimated volum Source of estimated swell f HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Ub Condition Correction H Operator S Material consistent	ITES • LCY ne: Division factor: Cat Hand ION tion: 125 feet 1,055.6 LC cription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0. ncy: 1. hod: 1.		tion, Mining & Safety		

Adjusted unit production:	513.76 LCY/hr
Adjusted fleet production:	513.76 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	12.72 Hours
Total job cost:	\$6,133

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Colowyo Coal Mine	9	Per	mit Action:	MT9		Permit/Job#:	C1981019
PROJECT IDENTI	FICATION						
Task #: 086 Date: 3/12/202	5 <u> </u>	State: ounty:	Colorado Moffat			Abbreviation: Filename:	None 086
User: HR1							
Agency or org	ganization nam	e: <u>DF</u>	RMS				
HOURLY EQUIPM	IENT COST						
Basic Machine:	Cat D9T - 9SU						
Horsepower: 4	05						
Blade Type: S	emi-Universal						
Attachment: 1	-shank ripper						
Shift Basis: 1	per day						
Data Source: (UKG)						
Cost Breakdown:							
				τ	<u>Jtilization %</u>		
Ownership Cost/Hour			\$253.16	-	NA		
Operating Cost/Hour			\$164.35		100		
Ripper own. Cost/Hour			\$15.77		NA		
Ripper op. Cost/Hour			\$10.35		100		
Operator Cost/Hour	:		\$38.59		NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$482.22 \$482.22						
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>1,</u>	\$482.22 \$482.22 \$129						
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1, Loose volume: 1,2	\$482.22 \$482.22 VTITIES 129 125 270 LCY						
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated vo Source of estimated sw	\$482.22 \$482.22 XTITIES 129 125 270 LCY lume: <u>D</u> ell factor: <u>C</u>	ivision (at Hand	of Reclamati	 on, Mini	ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated vo 5 Source of estimated sw 1 HOURLY PRODUCE 1	\$482.22 \$482.22 XTITIES 129 125 270 LCY lume: <u>D</u> ell factor: <u>C</u> CTION	ivision (at Hand	of Reclamati	 on, Mini	ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated volume: 1, Source of estimated sw 1. HOURLY PRODUCT 1.	\$482.22 \$482.22 VTITIES 129 125 270 LCY lume: <u>E</u> cell factor: <u>C</u> CTION	ivision at Hand	of Reclamati		ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1,2 Source of estimated volume: 1,2 Source of estimated sw 1. HOURLY PRODUC 1. Average push distance: 1.	\$482.22 \$482.22 VTITIES 129 125 270 LCY lume: <u>E</u> ell factor: <u>C</u> CTION 125 127 125 127 125 127 125 127 125 127 125 127 125 125 127 125 125 127 125 125 125 127 125 125 127 125 125 125 127 125 125 127 125 125 125 127 125 125 127 125 125 125 127 125 125 127 125 125 125 127 125 127 125 127 125 125 127 125 125 125 125 125 125 125 125	ivision at Hand	of Reclamati book		ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1,2 Source of estimated volume: 1,2 Source of estimated sw 1. HOURLY PRODUC 1. Average push distance: 1. Unadjusted hourly proc 1.	<u>\$482.22</u> \$482.22 VTITIES 129 125 270 LCY lume: <u>E</u> rell factor: <u>C</u> CTION luction: 1,0: hearinting:	ivision at Hand feet 55.6 LC	 of Reclamati book Y/hr	on, Mini	ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated volume: 1, Source of estimated sw 1, HOURLY PRODUC Average push distance: Unadjusted hourly proc 1, Materials consistency dom 1,		ivision at Hand feet 55.6 LC Consol		on, Mini	ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated vo 5 Source of estimated sw 1 HOURLY PRODUC Average push distance: Unadjusted hourly proc 1 Materials consistency c 1	<u>\$482.22</u> \$482.22 XTITIES 129 125 270 LCY lume: <u>D</u> ell factor: <u>C</u> CTION luction: <u>1,0</u> lescription: <u>5 %</u>	ivision at Hand feet 55.6 LC Consol	 of Reclamati book Y/hr idated stockg	on, Mini	ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated vo 5 Source of estimated sw 1 HOURLY PRODUC Average push distance: Unadjusted hourly proc 1 Vaterials consistency of 1 Average push gradient: 1 Average site altitude: 1	\$482.22 \$482.22 VTITIES 129 125 270 LCY lume: <u>D</u> ell factor: <u>C</u> CTION function: <u>1,0</u> lescription: <u>-</u> 5 % <u>7,600 feet</u>	ivision at Hand feet 55.6 LC Consol	 of Reclamati book Y/hr idated stockp	<u>on, Mini</u> bile 1.0	ng & Safety		
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Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated volume: 1, Source of estimated sw 1, HOURLY PRODUC Average push distance: Unadjusted hourly proc 1, Average push gradient: 1, Average site altitude: 1, Material weight: 1, Weight description: 1,		ivision at Hand 55.6 LC Consol	 of Reclamati book Y/hr idated stockp 1	on, Mini	ng & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1, Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency c Average site altitude: Material weight: Weight description: Iob Condition Correction	\$482.22 \$482.22 XTITIES 129 125 270 LCY lume: <u>D</u> ell factor: <u>C</u> CTION fuction: <u>1,0</u> lescription: <u>-</u> 5 % 7,600 feet <u>2,550 lbs/l</u> <u>Earth - Dr</u> on Factor	ivision at Hand 55.6 LC Consol		<u>on, Mini</u> 	ng & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1,2 Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency c Average site altitude: Material weight: Weight description: Iob Condition Correction	<u>\$482.22</u> \$482.22 VTITIES 129 125 270 LCY lume: <u>D</u> ell factor: <u>C</u> CTION lescription: <u>100</u> lescription: <u>5 %</u> <u>7,600 feet</u> <u>2,550 lbs/l</u> <u>Earth - Dr</u> on Factor or Skill: <u></u>	ivision at Hand feet 55.6 LC Consol LCY y packed 0.		on, Mini	ng & Safety Source (AB.AVG.)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1, Swell factor: 1. Loose volume: 1,2 Source of estimated volume: 1,2 Source of estimated sw 1. HOURLY PRODUC Average push distance: Unadjusted hourly proc 1. Average push gradient: 1. Average site altitude: 1. Material weight: Weight description: Iob Condition Correction 1. Material consistency for the second	\$482.22 \$482.22 VTITIES 129 125 270 LCY lume: <u>E</u> ell factor: <u>C</u> CTION duction: <u>1,0</u> duction: <u>1,0</u> description: <u>-</u> 5 % 7,600 feet <u>2,550 lbs/l</u> <u>Earth - Dr</u> on Factor or Skill: <u>-</u> istency: <u>-</u>	ivision at Hand feet 55.6 LC Consol LCY y packed 0. 1.		<u>on, Mini</u> bile 1.0	ng & Safety Source (AB.AVG.) (CAT HB)		
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Net correction: 0.4867

Adjusted unit production:	513.76 LCY/hr
Adjusted fleet production:	513.76 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	2.47 Hours
Total job cost:	\$1,192

Page 1 of 2

V OLIVIA AND A CONTRACT OF	Per	mit Action.	MT9	Permit/Ioh#·	C1981019
	101		1111/	1 CIIII(J00#.	01701017
PROJECT IDENTIFIC	CATION				
Task #· 087	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename:	087
User: HR1	county:	litoitut		i nonunio.	007
		NAC			
Agency or organiz	zation name: DR	RMS			
HOURLY EOUIPMEN	IT COST				
Basic Machine: Cat [1129 - TPC				
Horsepower: 405	JJ1 J50				
Blade Type: Semi	-Universal		_		
Attachment: 1-sha	ink ripper				
Shift Basis: 1 per	day				
Data Source: (CRC	G) (i				
Cost Breakdown					
LUST DICAKUUWII.			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
Total unit Cost/Hour: Fotal Fleet Cost/Hour:	\$482.22 \$482.22				
Total unit Cost/Hour:	\$482.22 \$482.22				
I otal unit Cost/Hour:	\$482.22 \$482.22 <u>FIES</u>				
Init Cost/Hour:	<u>\$482.22</u> \$482.22				
MATERIAL QUANTI Initial Volume: 6,131 Swell factor: 1.125	\$482.22 \$482.22 <u>TIES</u>				
Itel unit Cost/Hour:	\$482.22 \$482.22 <u>TIES</u> LCY				
Init Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANTI' Initial Volume: Swell factor: Loose volume: Source of estimated volume:	<u>\$482.22</u> \$482.22 <u>TIES <u>LCY</u> a: Division</u>	 of Reclamati	on Mining & Safety		
Init Cost/Hour:	\$482.22 \$482.22 TIES LCY e: Division of Cat Hand		on, Mining & Safety		
Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume	\$482.22 \$482.22 TIES LCY e: Division cactor: Cat Hand	of Reclamation	on, Mining & Safety		
Init Cost/Hour:	\$482.22 \$482.22 TIES LCY e: Division of Cat Hand CON	of Reclamation	on, Mining & Safety		
Init Cost/Hour:	\$482.22 \$482.22 TIES LCY e: Division of Cat Hand CON	of Reclamation	on, Mining & Safety		
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Initial Volume: 6,131 Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated swell f HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency description	3482.22 \$482.22 TIES LCY e: Division of Cat Hand CON ion: 125 feet 1,055.6 LC ription: Consol	 of Reclamation book Y/hr idated stockp	on, Mining & Safety		
Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated swell f HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency description	3482.22 \$482.22 TIES LCY e:	of Reclamation book Y/hr idated stockp	on, Mining & Safety		
Initial Volume: 6,131 Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated swell f HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency descr	3482.22 \$482.22 TIES LCY e: Division of Carl Hand CON ion: 125 feet 1,055.6 LC ription: Consol 5 % 7,000 feet	 of Reclamati book Y/hr idated stockp	on, Mining & Safety		
Initial Volume: 6,131 Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell factor: HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency descr Average push gradient: Average site altitude:	3482.22 \$482.22 TIES LCY e: Division of Cat Hand actor: Cat Hand ion: 125 feet ion: 1,055.6 LC ription: Consol 5 % 7,600 feet	 of Reclamation book Y/hr idated stockp	 on, Mining & Safety bile 1.0		
Initial Volume: 6,131 Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell factor: HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency description Average push gradient: Average site altitude: Material weight:	3482.22 \$482.22 IIES LCY e: Division of Construction of Constructin on Construction of Constructin on Construction of Co	 of Reclamation book Y/hr idated stockp	 on, Mining & Safety oile 1.0		
MATERIAL QUANTI' Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell f HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency descr Average site altitude: Waterial weight: Weight description:	3482.22 \$482.22 TIES LCY e: Division of Cat Hand actor: Cat Hand ion: 125 feet ion: 1,055.6 LC ription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed	 of Reclamation book Y/hr idated stockp	 on, Mining & Safety bile 1.0		
Initial Volume: 6,131 Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell factor: HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency description: Average site altitude: Weight description: Lop Condition Correction F	3482.22 \$482.22 TIES LCY e: Division of Cat Hand CON factor: Cat Hand CON ion: 125 feet ion: 1,055.6 LC' ription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Consol	 of Reclamation book Y/hr idated stockp 1	on, Mining & Safety		
Initial Volume: 6,131 Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell factor: HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency description: Average site altitude: Weight description: Did Condition Correction F Operator State	3482.22 \$482.22 TIES LCY e: Division of Cat Hand CON ion: 125 feet 1,055.6 LC ription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Catter 0	 of Reclamation book Y/hr idated stockp 1 900	on, Mining & Safety		
MATERIAL QUANTI Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell factor: HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency description: Average fush gradient: Average fush gradient: Material weight: Description: Operator Sk Material consistent	3482.22 \$482.22 TIES LCY e: Division of actor: actor: Cat Hand ON ion: 125 feet 1,055.6 LC' ription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Cactor Consol Cactor 0. cill: 0. cy: 1.		on, Mining & Safety		
MATERIAL QUANTI' Initial Volume: 6,131 Swell factor: 1.125 Loose volume: 6,897 Source of estimated volume Source of estimated volume Source of estimated swell f HOURLY PRODUCTI Average push distance: Unadjusted hourly producti Materials consistency descr Average push gradient: Average site altitude: Weight description: Operator Sk Material consistent Operator Sk Material consistent	3482.22 \$482.22 TIES LCY e: Division of Cat Hand actor: Cat Hand ion: 125 feet ion: 1,055.6 LC' ription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed icil: 0. cig: 1. odd: 1.		on, Mining & Safety		

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(FND-RF)
Push gradie	ent:	0.903	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	,ht:	0.902	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction			
Adjusted unit production:	513.7	76 LCY/hr	
Adjusted fleet production:	513.7	6 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY
Onn cost.	\$0.757/LC1

Total job time:	13.43 Hours
Total job cost:	\$6,474

Page 1 of 2

Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task # 088	State	Colorado		Abbreviation	None
Date: $3/12/2025$	State.	Moffat		Filename	088
User: HR1	County.	WIOITat		Thename.	088
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405					
Blade Type: Sem	ni-Universal				
Attachment: <u>1-sh</u>	nank ripper				
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$482.22 \$482.22				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT	\$482.22 \$482.22 ITIES				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume:7,421	\$482.22 \$482.22 ITIES 1				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.125	\$482.22 \$482.22 ITIES 1 5				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12 Loose volume: 8,349	\$482.22 \$482.22 ITIES 1 5 9 LCY				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12 Loose volume: 8,349 Source of estimated volum	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division 6	 of Reclamati	on, Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12 Loose volume: 8,349 Source of estimated volur Source of estimated swell	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand	 of Reclamation book	on, Mining & Safety		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42. Swell factor: 1.12. Loose volume: 8,349 Source of estimated volur Source of estimated swell	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand	of Reclamation	on, Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12 Loose volume: 8,349 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION	of Reclamation	on, Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12 Loose volume: 8,349 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION 125 feet	of Reclamation	on, Mining & Safety		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42. Swell factor: 1.12. Loose volume: 8,349 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Inadjusted hourly product	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION 125 feet stion: 1.055.6 LC	of Reclamation book	on, Mining & Safety		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12: Loose volume: 8,34! Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION 25 feet 1,055.6 LC	 of Reclamation book Y/hr	 on, Mining & Safety 		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12: Loose volume: 8,34! Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency des	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION 125 feet ction: 1,055.6 LC cription: Consol		 on, Mining & Safety wile 1.0		
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Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42. Swell factor: 1.12: Loose volume: 8,34! Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency des Average push gradient: Average site altitude:	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION ction: 125 feet 1,055.6 LC cription: Consol 5 % 7,600 feet	 of Reclamation book Y/hr idated stockp	on, Mining & Safety		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42. Swell factor: 1.12: Loose volume: 8,34! Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency des Average push gradient: Average site altitude:	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION CION CION CION Clossic 5 % 7,600 feet	 of Reclamation book Y/hr idated stockp	 on, Mining & Safety bile 1.0		
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Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12 Loose volume: 8,34 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency des Average push gradient: Average site altitude: Vaterial weight: Weight description: Ob Condition Correction	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: Cat Hand CION 2 Cat Hand CION 125 feet 1,055.6 LC cription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor	 of Reclamatic book Y/hr idated stockp 1	 on, Mining & Safety oile 1.0		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42 Swell factor: 1.12: Loose volume: 8,34! Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency des Average site altitude: Vaterial weight: Weight description: Ob Condition Correction Operator S	\$482.22 \$482.22 ITTES 1 5 9 LCY ne: Division of factor: factor: Cat Hand CION 2.550 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.		on, Mining & Safety		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 7,42. Swell factor: 1.12: Loose volume: 8,34! Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency des Average site altitude: Vaterial weight: Weight description: Ob Condition Correction Operator S Material consistency	\$482.22 \$482.22 ITIES 1 5 9 LCY ne: Division of factor: factor: Cat Hand CION cription: 125 feet cription: 1,055.6 LC? cription: Consol 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0. ency: 1.		on, Mining & Safety pile 1.0		
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Adjusted unit production:	513.76 LCY/hr
Adjusted fleet production:	513.76 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	16.25 Hours
Total job cost:	\$7,836

Page 1 of 2

			-	ne to East Taylo			
Colowyo Coal Min	ie	Per	mit Action:	MT9		Permit/Job#:	C1981019
PROJECT IDENT	IFICATION	1					
Task #: 089 Date: 3/12/202	25	State: County:	Colorado Moffat		A	bbreviation: Filename:	None C019-089
User: HR1							
Agency or or	rganization na	me: <u>DF</u>	RMS				
HOURLY EQUIP	MENT COS	<u>T</u>					
Basic Machine:	Cat D9T - 9SU	J					
Horsepower:	405	1					
Blade Type:	Semi-Univers	al					
Attachment:	I-shank rippei	•					
Shift Basis:	1 per day						
Data Source:	(CKG)						
Cost Breakdown:							
*				<u>Uti</u> lizatio	<u>n %</u>		
Ownership Cost/Hov	ır:		\$253.16	NA			
Operating Cost/Hou	ır:		\$164.35	100			
Ripper own. Cost/Hou	ır:		\$15.77	NA			
Ripper op. Cost/Hou	ır:		\$10.35	100			
Operator Cost/Hou	ır:		\$38.59	NΔ			
MATERIAL QUA	: <u>\$482.22</u> NTITIES						
MATERIAL QUA Initial Volume: <u>2</u> Swell factor: 1	: \$482.22 <u>NTITIES</u> ,743 .125						
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3	NTITIES ,743 ,125 ,086 LCY						
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 5	:	Division Cat Hand	of Reclamati	on, Mining & Sat	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 5 Source of estimated sw 3 HOURLY PRODU 3	:	Division Cat Hand	of Reclamati	 on, Mining & Saf 	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated volume: 3 Mathematical volume: 4 Mathematical volume: 2 Mathematical volume: 3 Mathematical volume: 3 Mathematical volume: 4 Mathematical volume:	: NTITIES ,743 .125 .086 LCY olume: vell factor: ICTION e:	Division Cat Hand 25 feet	of Reclamati	 on, Mining & Sat	<u>fety</u>		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated sw 3 HOURLY PRODU 4 Average push distance 3	:	Division Cat Hand 25 feet 055.6 LC	of Reclamati lbook	 on, Mining & Sat 	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated volume: 4 Matterials consistency 4	\$482.22 NTITIES ,743 ,125 ,086 LCY olume: ,086 LCY ,086 LCY ,086 LCY ,086 LCY ,090 LCY	Division Cat Hand 25 feet 055.6 LC Consol	 of Reclamati lbook Y/hr idated stocky	on, Mining & Saf	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated swell 3 MOURLY PRODU 4 Average push distance 3 Materials consistency 4 Average push gradient 4	: <u>\$482.22</u> <u>NTITIES</u> ,743 .125 ,086 LCY olume: well factor: <u>VCTION</u> e:1 description: t:5 % 7.600 fee	Division Cat Hand 25 feet 055.6 LC Consol	 of Reclamati lbook Y/hr idated stockp	on, Mining & Sat	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated volume: 3 Source of estimated volume: 4 Average push distance 1 Jnadjusted hourly providentials 1 Average push gradient 1 Average site altitude: 1 Average site altitude: 1	:	Division Cat Hand 25 feet 055.6 LC Consol et	 of Reclamati lbook Y/hr idated stockp 	on, Mining & Saf	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated sw 4 HOURLY PRODU 4 Average push distance 1 Jnadjusted hourly providentials consistency 4 Average push gradient 4 Average site altitude: 4 Verage site altitude: 4 Verage site altitude: 4 Material weight: 4 Weight description: 4	:	Division Cat Hand 25 feet 055.6 LC Consol et s/LCY Dry packed	 of Reclamati lbook Y/hr idated stockp d	on, Mining & Sat	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated volume: 3 Source of estimated volume: 4 Average push distance 1 Jnadjusted hourly provident 4 Average push distance 1 Average push gradient 4 Verage site altitude: 4 Verage site altitude: 4 Verage hourd 4 Ve	:	Division Cat Hand 25 feet 055.6 LC Consol et 5/LCY Dry packed	 of Reclamati lbook Y/hr idated stockp d	on, Mining & Saf	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated volume: 3 Source of estimated volume: 4 Average push distance 1 Jnadjusted hourly producted hourly producted 1 Average push gradient 1 Average site altitude: 1 Average site altitude: 1 Verage hourd 1 Source of estimated hourly producted hourly	:	Division Cat Hand 25 feet 055.6 LC Consol et s/LCY Dry packed 0.	 of Reclamati lbook Y/hr idated stockp d	on, Mining & Saf	fety		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated swell 3 HOURLY PRODU 4 Average push distance 3 Jnadjusted hourly providentials consistency 4 Verage push gradient 4 Verage site altitude: 4 Verage site altitude: 4 Verage site altitude: 5 Material weight: 5 Weight description: 6 Operation 6 Material constraint 6	:	Division Cat Hand 25 feet 055.6 LC Consol et s/LCY Dry packed 0.	 of Reclamati lbook Y/hr idated stockp d g00 000	on, Mining & Sat	fety <u>urce</u> AVG.) Γ HB)		
MATERIAL QUA Initial Volume: 2 Swell factor: 1 Loose volume: 3 Source of estimated volume: 3 Source of estimated swell 3 HOURLY PRODU 4 Average push distance 3 Juadjusted hourly provident 4 Average push gradient 4 Verage site altitude: 4 Verage site altitude: 4 Verage site altitude: 5 Material weight: 5 Weight description: 6 Operat 5 Material cons 5 Dozing 5	:	Division Cat Hand 25 feet 055.6 LC Consol et 6/LCY Dry packed 0. 1. 1.	 of Reclamati lbook Y/hr idated stockp d d d	on, Mining & Sat	fety <u>urce</u> AVG.) Γ HB) EN.)		

		0.020	(1 5111 1/2111)
Spoil pile:		0.800	(FND-RF)
Push gradie	ent:	0.903	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	,ht:	0.902	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	on: _0).4867	
Adjusted unit production:	513.7	76 LCY/hr	
Adjusted fleet production:	513.7	76 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	6.01 Hours
Total job cost:	\$2,896
BULLDOZER WORK

Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #· 090	State	Colorado		Abbreviation:	None
Date: $3/12/2025$	State.	Moffat		Filename	090
User: HR1	County.	Wiomat		i nename.	070
	nization name: DD	MC			
Agency or orga	mzation name. DR				
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D9T - 9SU				
Horsepower: 403) · · · · · · ·				
Blade Type: Ser	mi-Universal				
Attachment: <u>1-s</u>	hank ripper				
Snift Basis: <u>I p</u>	er day				
Data Source: (CI	KU)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
MATERIAL QUANI	TITIES				
MATERIAL QUANT	TITIES				
MATERIAL QUANT Initial Volume: 807 Swell factor: 1.12	TITIES				
MATERIAL QUANTInitial Volume:807Swell factor:1.12Loose volume:908	T <b>ITIES</b> 25 LCY				
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu	EITIES 25 LCY me:Division of	  of Reclamati	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel	TITIES 25 LCY me: Division of 1 factor: Cat Hand	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volut         Source of estimated swel	EITIES 25 LCY me: Division of 1 factor: Cat Hand	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT	TITIES 25 LCY me: Division of 1 factor: Cat Hand TION	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:	TITIES 25 LCY me: Division of 1 factor: Cat Hand TION 125 feet	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ	TITIES 25 LCY me: Division of 1 factor: Cat Hand TION 125 feet ction: 1.055.6 LC		on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produced	EITIES         25         LCY         me:       Division of         1 factor:       Cat Hand         FION         ction:       125 feet         1,055.6 LCY	 of Reclamati book Y/hr	on, Mining & Safety 		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produced	ETTIES         25         LCY         me:       Division of         1 factor:       Cat Hand         FION         ction:       125 feet         1,055.6 LCY         scription:       Consoli		on, Mining & Safety 		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUC?         Average push distance:         Unadjusted hourly produce         Materials consistency destance:	TITIES 25 LCY me:Division of 1 factor:Cat Hand TION Cat Hand TION 125 feet 1,055.6 LCY scription:Consoli 5 %		on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:	TITIES 25 LCY me: Division of 1 factor: Cat Hand TION Cat Hand TION 125 feet 1,055.6 LCY scription: Consoli 5 % 7 600 feet	 of Reclamati book Y/hr idated stockp	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:         Average push gradient:         Average site altitude:	<b>ETTIES</b> 25         LCY         me:       Division of Cat Hand         1 factor:       Cat Hand <b>TION</b> ction:       125 feet 1,055.6 LCY         scription:       Consolit         5 %       7,600 feet	 of Reclamati book Y/hr idated stockp 	on, Mining & Safety 		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average site altitude:         Material weight:	TITIES 25 LCY me: Division of 1 factor: Cat Hand TION Cat Hand TION Cat Hand Cat Hand	 of Reclamati book Y/hr idated stockp 	on, Mining & Safety   pile 1.0		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produce         Materials consistency des         Average site altitude:         Vaterial weight:         Weight description:	<b>EITIES</b> 25         LCY         me:       Division of Cat Hand         I factor:       Cat Hand <b>TION</b> ction:       125 feet         ction:       1,055.6 LCY         scription:       Consolit         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed	 of Reclamati book Y/hr idated stockp  I	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC?         Average push distance:         Unadjusted hourly produce         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction	ETTIES         25         LCY         me:       Division of Cat Hand         I factor:       Cat Hand         FION         ction:       125 feet         1,055.6 LCY         scription:       Consolid         5 %         7,600 feet         2,550 lbs/LCY         Earth - Dry packed         Factor	 of Reclamati book Y/hr idated stockp  I	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu       908         Source of estimated volu       Source of estimated swel         HOURLY PRODUC?       Average push distance:         Unadjusted hourly produ       Materials consistency des         Average push gradient:       Average site altitude:         Vaterial weight:       Weight description:         Iob Condition Correction       Operator	EITIES         25         LCY         me:       Division of Cat Hand         I factor:       Cat Hand <b>TION</b> ction:       125 feet         ction:       1,055.6 LCY         scription:       Consolit         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.4		<u>on, Mining &amp; Safety</u>		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'.         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average site altitude:         Vaterial weight:         Weight description:         Iob Condition Correction         Operator         Material consist	EITIES         25         LCY         me:       Division of Cat Hand         I factor:       Cat Hand         IION         ction:       125 feet         ction:       1,055.6 LCY         scription:       Consolit         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.1         Stency:       1.1		on, Mining & Safety bile 1.0 (AB.AVG.)(CAT HB)		
MATERIAL QUANT         Initial Volume:       807         Swell factor:       1.12         Loose volume:       908         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist         Dozing me	EITIES         25         LCY         me:       Division of Cat Hand         I factor:       Cat Hand         IION         ction:       125 feet         ction:       1,055.6 LCY         scription:       Consoli         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.         sency:       1.         ethod:       1.		on, Mining & Safety 		

Adjusted unit production:	513.76 LCY/hr
Adjusted fleet production:	513.76 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	<b>1.77</b> Hours
Total job cost:	\$852

### Task # 091

# BULLDOZER WORK

Colowyo Coal M	ine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDEN	TIFICATI	<u>ON</u>				
Task #: 091		State:	Colorado		Abbreviation:	None
Date: 3/12/2	025	County:	Moffat		Filename:	091
User: HR1					-	
Agency or	organization	name: DF	RMS			
HOURLY EQUI	PMENT CO	<u>OST</u>				
Basic Machine:	Cat D9T -	9SU				
Horsepower:	405					
Blade Type:	Semi-Univ	ersal				
Attachment:	1-shank rip	per				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
			<b>.</b>	Utilization %		
Ownership Cost/He	our:		\$253.16	NA		
Operating Cost/He	our:		\$164.35	100		
Apper own. Cost/He	our:		\$15.77	NA 100		
Kipper op. Cost/He	our:		\$10.35	100		
	<u></u>					
MATERIAL QU	ANTITIES					
MATERIAL QU. Initial Volume: Swell factor:	ANTITIES 5,001 1.125					
MATERIAL QU. Initial Volume: Swell factor: Loose volume:	ANTITIES 5,001 1.125 5,626 LCY					
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor:	Division ( Cat Hand	of Reclamati	on, Mining & Safety	<u>_</u>	
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION	Division Cat Hand	of Reclamati	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION	  Cat Hand	  of Reclamati lbook	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION cce: roduction:	Division Cat Hand	of Reclamati book	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION cce: roduction:	Division Cat Hand 125 feet 1,055.6 LC	 of Reclamati lbook Y/hr	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION ce: roduction: y description	Division Cat Hand 125 feet 1,055.6 LC n: Consol	 of Reclamati lbook Y/hr idated stockp	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION cce: roduction: y description ent: 5 %	Division Cat Hand 125 feet 1,055.6 LC a: Consol	of Reclamati lbook Y/hr idated stockp	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie Average site altitude	ANTITIES           5,001           1.125           5,626 LCY           volume:           swell factor:           UCTION           cce:           roduction:           y description           ent:         5 %           2.	Division Cat Hand 125 feet 1,055.6 LC n: Consol	 of Reclamati lbook Y/hr idated stockp	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight:	ANTITIES           5,001           1.125           5,626 LCY           volume:           swell factor:           UCTION           cce:           oroduction:           y description           ent:         5 %           ::         7,600           2,550	Division Cat Hand 125 feet 1,055.6 LC a: Consol 0 feet	 of Reclamati lbook Y/hr idated stockp 	on, Mining & Safety   bile 1.0		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description:	ANTITIES           5,001           1.125           5,626 LCY           volume:           swell factor:           OUCTION           ace:           roduction:           y description           ent:         5 %           2,550           Earth	Division Cat Hand 125 feet 1,055.6 LC a: Consol ) feet ) lbs/LCY - Dry packed	 of Reclamati lbook Y/hr idated stockp  d	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: <u>Iob Condition Corre</u>	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION ace: roduction: y description ent: 5 % 2.550 Earth action Factor	Division Cat Hand 125 feet 1,055.6 LC a: Consol 0 feet 0 lbs/LCY - Dry packed	 of Reclamati lbook Y/hr idated stockp  d	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Vaterial weight: Weight description: <u>Iob Condition Corre</u> Oper	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION ce: roduction: 2,550 2,550 Earth cction Factor rator Skill:	Division Cat Hand 125 feet 1,055.6 LC a: Consol feet 0 lbs/LCY - Dry packed 0.	 of Reclamati lbook Y/hr idated stockp  d 900	on, Mining & Safety  bile 1.0  Source (AB.AVG.)		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: <u>Tob Condition Corree</u> Oper Material co	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION cce: roduction: y description ent: 5 % 2,550 Earth ection Factor rator Skill: onsistency:	Division Cat Hand 125 feet 1,055.6 LC a: Consol ) feet ) lbs/LCY - Dry packed 0. 1.	 of Reclamati lbook Y/hr idated stockp  d 900 000	on, Mining & Safety		
MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Vaterials consistence Average push gradie Average site altitude Material weight: Weight description: <u>Iob Condition Corre</u> Oper Material co Dozin	ANTITIES 5,001 1.125 5,626 LCY volume: swell factor: UCTION cce: roduction: y description ent: 5 % c: 7,600 2,550 Earth ection Factor rator Skill: onsistency: g method:	  	 of Reclamati lbook Y/hr idated stockp  d 900 .000 .000	on, Mining & Safety		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 0.903	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.902	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.4867	
Adjusted unit production:	513.76 LCY/hr	
Adjusted fleet production:	513.76 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	<b>10.95</b> Hours
Total job cost:	\$5,281

# BULLDOZER WORK

	-	•		<b>D</b>	G1001010
Colowyo Coal Mine	Peri	mit Action:	МТ9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<b>CATION</b>				
Teal: # 002	Ctat.	Colorada		Abbromistics	None
1  ask  #: 092	State:	<u>Colorado</u>		Abbreviation:	None 002
Date: $\frac{5/12/2025}{1000}$	County:	Monat		Filename:	092
User: HKI					
Agency or organ	nization name: DR	RMS			
μοιίδι ν εοιίιδμε	NT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405	ai Universel				
Attachmanti 1 al					
Shift Paging 1 pc	ank ripper				
Data Source: (CP	er uay				
Data Source. (CK					
Cost Breakdown:		i			
0 11 0 77		<b>AAAAAAAAAAAAA</b>	Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
Total Fleet Cost/Hour: MATERIAL QUANT	\$482.22 ITIES				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>4,033</u>	\$482.22 ITIES				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537	\$482.22 ITIES 3 5 7 LCY				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum	\$482.22 <u>ITIES</u> 3 5 7 LCY ne: Division (	  of Reclamati	ion Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell	\$482.22 ITIES 3 5 7 LCY ne: Division of factor: Cat Hand	  of Reclamati book	ion, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,033         Swell factor:       1.125         Loose volume:       4,537         Source of estimated volum         Source of estimated swell	\$482.22 ITIES 3 5 7 LCY ne: Division of factor: Cat Hand	  of Reclamati book	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell <u>HOURLY PRODUCT</u>	\$482.22 ITIES 3 5 7 LCY ne: Division of factor: Cat Hand CION	of Reclamati	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volum Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance:	\$482.22 ITIES 3 5 7 LCY ne: Division of factor: Cat Hand CION 125 feet	of Reclamati	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volum Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc	\$482.22 ITIES 3 5 7 LCY ne: Division of factor: Cat Hand CION 125 feet stion: 1.055.6 LC	 of Reclamati book	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,033 Swell factor: 1.122 Loose volume: 4,537 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$482.22           ITIES           3           5           7 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           CION         125 feet           ction:         1,055.6 LCY	 of Reclamati book Y/hr	 ion, Mining & Safety 		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated volum Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly product	\$482.22           ITIES           3           5           7 LCY           ne:         Division of factor:           factor:         Cat Hand           CION           ction:         1.25 feet           ction:         1.055.6 LCY           cription:         Consol:		ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient:	\$482.22         ITIES         3         5         7 LCY         ne:       Division of factor:         factor:       Cat Hand         CION         cription:       125 feet         1,055.6 LC*         cription:       Consol:         5 %	 of Reclamati book Y/hr idated stockp	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude:	\$482.22         ITIES         3         5         7 LCY         ne:       Division of factor:         factor:       Cat Hand         CION         cription:       125 feet         cription:       Consol:         5 %       7,600 feet	 of Reclamati book Y/hr idated stockp	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight:	\$482.22         ITIES         3         5         7 LCY         ne:       Division of Cat Hand         factor:       Cat Hand         CION         cription:       1,055.6 LC         cription:       Consolid         5 %       7,600 feet         2,550 lbs/LCY	 of Reclamati book Y/hr idated stockp	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	\$482.22         ITIES         3         5         7 LCY         ne:       Division of Cat Hand         7 LCY         ne:       Division of Cat Hand         CION         2125 feet         cription:       1,055.6 LC'         cription:       Consolid         5 %       7,600 feet         2,550 lbs/LCY         Earth - Dry packed	 of Reclamati book Y/hr idated stockp 	ion, Mining & Safety		
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight: Weight description: Initial Condition Comments	\$482.22         ITIES         3         5         7 LCY         ne:       Division of Cat Hand         factor:       Cat Hand         CION         cription:       125 feet         cription:       Consol:         5 %         7,600 feet         2,550 lbs/LCY         Earth - Dry packed		ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$482.22         ITIES         3         5         7 LCY         ne:       Division of factor:         factor:       Cat Hand         CION         cription:       125 feet         cription:       1,055.6 LC'         cription:       Consol:         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0		ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,03; Swell factor: 1.12; Loose volume: 4,53; Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency dese Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consist	\$482.22         ITIES         3         5         7 LCY         ne:       Division of factor:         factor:       Cat Hand         CION         cription:       125 feet         cription:       1,055.6 LC'         cription:       Consol:         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.		ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,03 Swell factor: 1.12 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency dest Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency dest Material consistency dest Material weight:	\$482.22         ITIES         3         5         7 LCY         ne:       Division of Cat Hand         7 LCY         ne:       Division of Cat Hand         CION         cription:       125 feet         cription:       1,055.6 LCY         cription:       Consolid         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.         ency:       1.         thod:       1		ion, Mining & Safety pile 1.0 (AB.AVG.)(GFN.)		

Job efficience	y: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradier	nt: 0.903	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigl	nt: 0.902	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	n: 0.4867	
Adjusted unit production:	513.76 LCY/hr	
Adjusted fleet production:	513.76 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	8.83 Hours
Total job cost:	\$4,259

Page 1 of 2

# BULLDOZER WORK

Task description:	Replace Topsoil	from Topso	I Plie 1/F to west Tay		
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 093 Date: 3/12/2025 User: HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 093
Agency or organ	ization name: DR	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405	• • • • •				
Blade Type: Sem	1-Universal				
Attachment: <u>1-sh</u>	ank ripper				
Shift Basis: 1 per	r day				
Data Source: (CR	U)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
		\$38.59	NΔ		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$482.22 \$482.22	φ30.57			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125	\$482.22 \$ <b>482.22</b> ITIES				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537	\$482.22 \$482.22 ITIES LCY				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volume	\$482.22 <b>\$482.22</b> <b>TTIES</b> <b>LCY</b> Division		on Mining & Sofoty		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell	\$482.22 \$482.22 TTIES LCY he: Division of factor: Cat Hand	 of Reclamati	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell	\$482.22 \$482.22 TTIES CLCY he: Division of factor: Cat Hand	of Reclamati	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell	\$482.22 <b>\$482.22</b> <b>(TIES</b> CLCY he: Division of factor: Cat Hand	of Reclamati	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$482.22 <b>\$482.22</b> <b>(TIES</b> LCY he: Division of factor: Cat Hand <b>ION</b>	of Reclamati	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$482.22 <b>\$482.22</b> <b>TTIES</b> LCY he: Division of factor: Cat Hand <b>ION</b> 125 feet	of Reclamati	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$482.22 <b>\$482.22</b> <b>TIES</b> <b>TLCY</b> he: Division of factor: Cat Hand <b>ION</b> <u>125 feet</u> 1,055.6 LC	of Reclamati book	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$482.22 <b>\$482.22</b> <b>THES</b> <b>CLCY</b> he: Division of factor: Cat Hand <b>ION</b> tion: 125 feet 1,055.6 LC cription: Consol	of Reclamati book	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	\$482.22 <b>\$482.22</b> <b>THES</b> <b>(TIES)</b> <b>(LCY)</b> he: Division of factor: Cat Hand <b>ION</b> tion: 125 feet 1,055.6 LC' cription: Consoli 5 % 7,600 feet	of Reclamati book	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 4,033 Swell factor: 1.125 Loose volume: 4,537 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight:	\$482.22 <b>\$482.22</b> <b>TIES</b> <b>LCY</b> he: Division of factor: Cat Hand <b>ION</b> tion: 125 feet 1,055.6 LC cription: Consolit 5 % 7,600 feet 2,550 lbs/LCY		on, Mining & Safety		
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:         4,033         Swell factor:         1.125         Loose volume:         4,537         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Average site altitude:         Weight description:	\$482.22 <b>\$482.22</b> <b>THES</b> <b>LCY</b> he: Division of factor: Cat Hand <b>ION</b> tion: 125 feet 1,055.6 LCY cription: Consol: 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed	<pre></pre>	on, Mining & Safety		
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       4,033         Swell factor:       1.125         Loose volume:       4,537         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Waterial weight:         Weight description:         Lob Condition Correction	\$482.22 <b>\$482.22</b> <b>THES</b> <b>LCY</b> he: Division of factor: Cat Hand <b>ION</b> 125 feet 1,055.6 LC' cription: Consoli 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor		on, Mining & Safety		
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       4,033         Swell factor:       1.125         Loose volume:       4,537         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Average site altitude:         Weight description:         Lob Condition Correction I         Operator S	\$482.22 <b>\$482.22</b> <b>TTIES</b> <b>LCY</b> te: Division of factor: Cat Hand <b>ION</b> <u>125 feet</u> tion: 1,055.6 LC cription: Console 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0.		on, Mining & Safety		
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       4,033         Swell factor:       1.125         Loose volume:       4,537         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I         Operator S         Material consisten	\$482.22 <b>\$482.22</b> <b>TIES</b> <b>CICY</b> The: Division of factor: Cat Hand <b>ION</b> <b>125</b> feet 1,055.6 LCY Tription: Consolition 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0. ncy: 1.	<pre></pre>	on, Mining & Safety		
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:         4,033         Swell factor:         1.125         Loose volume:         4,537         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I         Operator S         Material consistency         Dozing meth	\$482.22 <b>\$482.22</b> <b>THES</b> <b>CLCY</b> The: Division of factor: Cat Hand <b>ION</b> <b>125</b> feet 1,055.6 LCY cription: Consoli 5 % 7,600 feet 2,550 lbs/LCY Earth - Dry packed Factor kill: 0. ncy: 1. hod: 1.		on, Mining & Safety		

Spoil pi	le:	0.800	(	FND-RF)
Push gradie	nt:	0.903	(	CAT HB)
Altitud	de:	1.000	(	CAT HB)
Material Weig	ht:	0.902	(	CAT HB)
Blade typ	pe:	1.000		(PAT)
Net correction	on:	0.4867		
Adjusted unit production:	51	3.76 LCY/hr		
Adjusted fleet production:	51	<b>3.76</b> LCY/hr		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	8.83 Hours
Total job cost:	\$4,259

## HYDRAULIC EXCAVATOR WORK

Task description:	Replace Topsoil	from Stockp	ile to Collection D	itches		
Colowyo Coal Mine	Per	mit Action:	MT9	P	ermit/Job#:	: <u>C1981019</u>
PROJECT IDENTIFI	ICATION					
Task #:     094       Date:     3/13/2025       User:     HR1	State: County:	Colorado Moffat		Abb	reviation: Filename:	None 094
Agency or organ	nization name: DI	RMS				
HOURLY EQUIPME	NT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	H Wa D	lorsepower: eight (MT): Shift Basis: vata Source:		268 29.30 per day CRG)
Cost Breakdown:		l				
Ownership Cost/F Operating Cost/F Operator Cost/F	Hour:         \$75.'           Hour:         \$52.'           Hour:         \$33.'	78 99 87	NA           100           NA			
Total Unit Cost/H	Hour: \$162	.64				
Total Fleet Cost/	Hour: \$162	64				
MATERIAL QUANT Initial volume: 14 Loose volume: 10	<u>TTIES</u> 4,810 6 <b>,661</b>	CCY LCY	Swell factor	: 1.125		
Source of est	of estimated volume: timated swell factor:	Division of Cat Hand	of Reclamation, Mi	ning & Safet	у	
HOURLY PRODUCT	<u>TION</u>					
Excavator Cycle Time (lo	ad bucket, swing loa	aded, dump b	ucket, swing empty	<u>y):</u>		
		Basic Job Co	ondition Description	n: <u>AVER</u> A	AGE	
	Secondary Job Co	ondition with	n Basic Description Cycle Time Value	n: <u>SEVER</u> e: 0.343	E	minutes
Load Bucket Capacity					-	
Rated Capacity	: 1.56	LCY (hea	ped)	Bucket Size (	lass: <u>Sr</u>	nall
Bucket Fill Factor	: 0.925	Loose ma	terial - 1/8" to 3/8"	(90 - 95%) (	0.925	
Adjusted Capacity	Eactors	_ LC I	Site A	ltitude: 7600	foot	
job condition concetion	1 actors	Source	She A	11111111111111111111111111111111111111	leet	
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	(CAT HB (1 shift/da multiplier	) y)			
Una A Ad	djusted Hourly Unit djusted Hourly Unit djusted Hourly Fleet	Production: Production: Production:	252.42 209.51 <b>209.51</b>	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND COS	ST					
Fleet size: 1	Excavat	or To	tal job time:	79.5	3	Hours

## BOREHOLE SEALING WORK

1	Task description:   Plug and Seal All Wells and Piezometers for EP, WP and STP							
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/.	Job#: <u>C1981019</u>		
<u>PROJE</u>	CT IDENTIFICATIO	N						
Task #:	095	State:	Colorado		Abbreviation:	None		
Date: User:	: <u>3/12/2025</u> HR1	County:	Moffat		Filename:	C019-095		
User.	Agency or organiza	tion name:	DRMS					

# UNIT COSTS

Borehole	Sealing/Item Method						
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug West Pit Fill Piezometer	PVC plug - 4 in. diameter borehole	4"	647'	1.00	EA	\$36.06	\$36.06
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	647'	13.00	bag	\$22.00	\$286.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	1.00	LF	\$3.23	\$3.23
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	6.00	EA	\$450.94	\$2,705.64
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	6.00	EA	\$101.92	\$611.52
Plug West Taylor Fill Piezometer	PVC plug - 4 in. diameter borehole	4"	250'	1.00	EA	\$36.06	\$36.06
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	250'	5.00	bag	\$22.00	\$110.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	1.00	LF	\$3.23	\$3.23
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	4.00	EA	\$450.94	\$1,803.76
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	4.00	EA	\$101.92	\$407.68
Plug East Taylor Fill Piezometer	PVC plug - 4 in. diameter borehole	4"	250'	1.00	EA	\$36.06	\$36.06
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	250'	5.00	bag	\$22.00	\$110.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear	4"	NA	1.00	LF	\$3.23	\$3.23

			1	1	1	1	
	Feet						
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	location/identification						
	marker (EA, material						
Drill Rig Time		ΝΔ	ΝΔ	4.00	FΔ	\$450.94	\$1 803 76
- Dim Kig Time	D7-1140 in	INA	INA	4.00	LA	\$4J0.74	\$1,803.70
- Water Truck	Water Tanker, 5,000 Gal.	NA	NA	4.00	EA	\$101.92	\$407.68
Time							
Plug A6 Well	PVC plug - 4 in.	4"	40'	1.00	EA	\$36.06	\$36.06
	diameter borehole						
- Fill Holes with	Portland cement grout (	4"	40'	1.00	bag	\$22.00	\$22.00
Cement	Bag, material cost						
Cut Cooing at	Only94 lb. bag)	A''	NI A	1.00	LE	\$2.02	\$2.02
- Cut Casing at	Calculate	4	NA	1.00	LF	\$3.23	\$3.23
Surface	Circumference in Linear						
	Feet						
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	location/identification						
	marker (EA, material						
	cost only)					+ · · ·	
- Drill Rig Time	ATLAS COPCO ROC	NA	NA	2.00	EA	\$450.94	\$901.88
Woton Truels	D/-11,4.0 in. Water Terlier 5 000 Cel	NI A	NI A	2.00	EA	\$101.02	¢202.84
- water Truck	water Taliker, 5,000 Gal.	NA	INA	2.00	EA	\$101.92	\$203.84
Plug A7 Well	PVC plug - 4 in	4"	41'	1.00	EA	\$36.06	\$36.06
	diameter borehole			1.00	2.11	\$50.00	\$20.00
- Fill Holes with	Portland cement grout (	4"	41'	1.00	bag	\$22.00	\$22.00
Cement	Bag, material cost						
	only94 lb. bag)						
- Cut Casing at	Exposed casing removal	4"	NA	1.00	LF	\$3.23	\$3.23
Surface	- Calculate						
	Feet						
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	location/identification			1100	2.1	<i><i><i>q</i></i></i>	ф. ююо
	marker (EA, material						
	cost only)						
- Drill Rig Time	ATLAS COPCO ROC	NA	NA	2.00	EA	\$450.94	\$901.88
	D7-11,4.0 in.	NT A	NT A	2.00	E A	¢101.02	¢202.04
- Water Truck	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Plug A8 Well	PVC plug - 10 in	10"	90'	1.00	FA	\$122.34	\$122.34
	diameter borehole	10	20	1.00	LIX	ψ122.J <del>-</del>	$\psi_1 2 2.5 +$
- Fill Holes with	Portland cement grout (	10"	90'	11.00	bag	\$22.00	\$242.00
Cement	Bag, material cost				Ũ		
	only94 lb. bag)						
- Cut Casing at	Exposed casing removal	10"	NA	1.00	LF	\$3.23	\$3.23
Surface	- Calculate						
	Circumference in Linear						
- Water Truck	Water Tanker 5 000 Gal	NA	NA	4.00	FA	\$101.92	\$407.68
Time	,, ator Funker, 5,000 Gal.	1121	1111	1.00		ψ101.72	φ107.00
- Drill Rig Time	ATLAS COPCO ROC	NA	NA	4.00	EA	\$616.70	\$2,466.80
	L8(25)						
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	location/identification						

	marker (EA, material						
Plug North Good	PVC plug = 1 ip	<u> </u>	40'	1.00	FΔ	\$36.06	\$36.06
Springs Well	diameter borehole	-	40	1.00	LA	ψ.00	ψ50.00
- Fill Holes with	Portland cement grout (	4"	40'	1.00	bag	\$22.00	\$22.00
Cement	Bag, material cost						
	only94 lb. bag)						
- Cut Casing at	Exposed casing removal	4"	NA	1.00	LF	\$3.23	\$3.23
Surface	- Calculate						
	Circumference in Linear						
D 1 1	Feet	NT A	NT A	1.00	E A	¢46.00	¢46.00
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	marker (EA material						
	cost only)						
- Drill Rig Time	ATLAS COPCO ROC	NA	NA	2.00	EA	\$450.94	\$901.88
Dim rug rime	D7-11.4.0 in.	1,11	1111	2.00	2.11	φ150.51	\$901.00
- Water Truck	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Time							
Plug Gossard Well	PVC plug - 4 in.	4"	50'	1.00	EA	\$36.06	\$36.06
	diameter borehole						
- Fill Holes with	Portland cement grout (	4"	50'	1.00	bag	\$22.00	\$22.00
Cement	Bag, material cost						
	only94 lb. bag)	411	NT A	1.00	TE	¢2.22	¢2.22
- Cut Casing at	Exposed casing removal	4	NA	1.00	LF	\$3.23	\$3.23
Sullace	- Calculate Circumference in Linear						
	Feet						
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	location/identification						
	marker (EA, material						
	cost only)						
- Drill Rig Time	ATLAS COPCO ROC	NA	NA	2.00	EA	\$450.94	\$901.88
	D7-11,4.0 in.			2.00		¢101.0 <b>2</b>	<b>\$202.04</b>
- Water Truck	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
$\frac{11\text{me}}{\text{Dlug MT 05.02}}$	PVC plug 4 in	4"	50'	1.00	БА	\$26.06	\$26.06
Well	r vC plug - 4 III. diameter borehole	4	50	1.00	EA	\$30.00	\$30.00
- Fill Holes with	Portland cement grout (	<u></u>	50'	1.00	hag	\$22.00	\$22.00
Cement	Bag. material cost		50	1.00	oug	φ22.00	<i>Φ22.00</i>
	only94 lb. bag)						
- Cut Casing at	Exposed casing removal	4"	NA	1.00	LF	\$3.23	\$3.23
Surface	- Calculate						
	Circumference in Linear						
	Feet						
- Borehole	Borehole	NA	NA	1.00	EA	\$46.00	\$46.00
Marker	location/identification						
	marker (EA, material						
- Drill Rig Time	ATLAS COPCO ROC	NA	NA	2.00	E.A.	\$450.94	\$901.88
	D7-11,4.0 in.	11/1	1111	2.00		ψ-50.7+	φ701.00
- Water Truck	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Time							

 Job Hours:
 28.00

Total Cost: \$17,855.00

### BOREHOLE SEALING WORK

r	Task description:	Seal South	Taylor In-Pit E	xploration Ho	oles (MR153+MR158)		
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/.	lob#:	C1981019
<u>PROJE</u>	CT IDENTIFICATIO	<u>N</u>					
Task #: Date: User:	096 3/12/2025 HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	Non C01	e 9-096
	Agency or organiza	tion name:	DRMS				

## UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
In-Pit Rat Holes (Table Exh. 23A- 1)	Portland cement grout ( Bag, material cost only94 lb. bag)	5.625"	13620	594.00	bag	\$22.00	\$13,068.00
- Drill Rig	ATLAS COPCO ROC L8(25)	5.625"	1813	142.00	EA	\$591.33	\$83,968.86
Out-Of-Pit Holes (Table Exh. 23A- 2)	Portland cement grout ( Bag, material cost only94 lb. bag)	5.625"	2100	92.00	bag	\$22.00	\$2,024.00
- Drill Rig	ATLAS COPCO ROC L8(25)	5.625"	1813	22.00	EA	\$616.70	\$13,567.40
- Water Truck	Water Tanker, 5,000 Gal.	N/A	N/A	22.00	EA	\$101.92	\$2,242.24
- Plug Holes	PVC plug - 6 in. diameter borehole	5.625"	1'	10.00	EA	\$65.19	\$651.91
- Borehole Markers	Borehole location/identification marker (EA, material cost only)	N/A	N/A	10.00	EA	\$46.00	\$460.00

Job Hours: 164.00

Total Cost: \$115,982.00

Task descrij	otion:	Reseed East Pit with Grazing	g Land Seed Mix	ζ.	
Site: Colowyo Coal Mine		Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION			X
Task #:	097A	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	097a
User:	HR1				
Ag	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	¢0.00
Total Much Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	26 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$15,229.76			
Reseeding Job Cost:	\$2,434.38			
Total Job Cost:	\$17,664		_	
Job Hours:	13.00		_	

Task description:Reseed East Pit with Grazing Land			g Land Seed M	Seed Mix -Phase 1 Released		
te: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>	
PROJECT	IDENTIFIC	CATION				
Task #:	097B	State: Colorado		Abbreviation:	None	
	3/28/2025	County: Moffat		Filename:	097b	
Date:	5/26/2025	county. monut				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. of Ac Estimated Failure R	eres: <u>13.92</u> late: <u>20%</u>	Cost /Acre: \$585.76 Cost /Acre*: \$468.15
*Selected Replanting Work Ite	ems: <u>SEEDING</u>	
Initial Job Cost: <b>\$8,153.78</b>		
Reseeding Job Cost: \$1,303.33		
Total Job Cost: <b>\$9,457</b>		
Job Hours: <b>7.00</b>		

Task descr	iption:	Reseed East Pit with Grazing	g Land Seed M	ix -Phase 2 Released	
ite: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
PROJECT	<u>IDENTIFIC</u>	CATION			
Task #:	097C	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	097c
TT	HR1				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. of Acres: Estimated Failure Rate:	<u>62.63</u> 20%	Cost /Acre: \$585.76 Cost /Acre*: \$468.15
*Selected Replanting Work Items:	SEEDING	
Initial Job Cost: <b>\$36,686.15</b>		
Reseeding Job Cost: \$5,864.05		
Total Job Cost: <b>\$42,550</b>		
Job Hours: <b>31.00</b>		

Task descrij	otion:	Reseed East Pit with Sagebra	ush Steppe See	d Mix - Phase 1 Rel	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #:	098B	State: Colorado		Abbreviation:	None
Date: User:	4/9/2025 HR1	County: <u>Mottat</u>		Filename:	0986
Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

\$
Acre sa na
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### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	ck Cost / Acre	\$0.00

No. of Acres: 4	.2 Cost /Acre:	\$709.64
Estimated Failure Rate: 2	0% Cost /Acre*:	\$592.03
*Selected Replanting Work Items: S	SEEDING	
Initial Job Cost: <b>\$2.980.49</b>		

minai job Cost.	φ <b>2</b> ,200. <b>-</b> 2
Reseeding Job Cost:	\$497.31
Total Job Cost:	\$3,478
Job Hours:	2.00

Task descr	iption:	Reseed East Pit with Sagebru	ush Steppe See	d Mix - Phase 2 Rel	
Site: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJEC1	<u>IDENTIFIC</u>	CATION			
Task #:	098C	State: Colorado		Abbreviation:	None
Date:	4/9/2025	County: Moffat		Filename:	098c
I I	HR1				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

\$
Acre sa na
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### NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	ck Cost / Acre	\$0.00

No. of Acres:	2.32	Cost /Acre:	\$709.64
Estimated Failure Rate:	20%	Cost /Acre*:	\$592.03
*Selected Replanting Work Items:	SEEDING		

\$1,646.36
\$274.70
\$1,921
2.00

Task descrip	otion:	Reseed West Pit with Grazi	ng Land Seed M	lix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: C1981019
PROJECT	IDENTIFIC	ATION			Maria
Task #:	099A	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	099a
User:	HR1				
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	¢0.00
Total Much Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	239 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$139,996.64			
Reseeding Job Cost:	\$22,377.57			
Total Job Cost:	\$162,374			
Job Hours:	119.50			

Task descri	iption: Reseed West Pit with Grazing Land Seed Mix - Phase 1 Release				
ite: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	<u>IDENTIFI(</u>	CATION			
Task #:	099B	State: Colorado		Abbreviation:	None
Deter	3/28/2025	County: Moffat		Filename:	099b
Date:					

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	45.01 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$26,365.06			
Reseeding Job Cost:	\$4,214.29			
Total Job Cost:	\$30,579			
Job Hours:	22.50			

Task descr	iption:	Reseed West Pit with Grazing Land Seed Mix - Phase 2 Release			
ite: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
PROJECT	<u> IDENTIFI(</u>	CATION			
Task #:	099C	State: Colorado		Abbreviation:	None
Date	3/28/2025	County: Moffat		Filename:	099c
Dute.					

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	215.79 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$126,401.15			
Reseeding Job Cost:	\$20,204.42			
Total Job Cost:	\$146,606			
Job Hours:	107.90			

Task des	cription:	Reseed West Pit with Sagebr	ush Steppe Se	eed Mix	
Site: Colow	yo Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
<u>PROJEC</u>	CT IDENTIFIC	CATION			
Task	#: 100A	State: Colorado		Abbreviation:	None
Dat	e: 4/8/2025	County: Moffat		Filename:	100a
Use	er: HR1				
	Agency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

\$
Acre sa na
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### NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

	No. of Acres:	141.3	Cost /Ac	cre:	\$709.64
Estimate	ed Failure Rate:	20%	Cost /Acr	e*:	\$592.03
*Selected Replanti	ng Work Items:	SEEDING			
Initial Job Cost:	\$100,272.13				
Reseeding Job Cost:	\$16,730.77		_		
Total Job Cost:	\$117,003		_		
Job Hours:	4.00		_		

Task descri	ption:	Reseed West Pit with Sagebrush Steppe Seed Mix - Phase 1 Rel				
te: Colowyo	o Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>	
PROJEC'I	<b>IDENTIFI</b>	CATION				
Task #:	100B	State: Colorado		Abbreviation:	None	
Task #: Date:	100B 4/8/2025	State: <u>Colorado</u> County: Moffat		Abbreviation: Filename:	None 100b	

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

\$
Acre sa na
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### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	ck Cost / Acre	\$0.00

### JOB TIME AND COST

Job Hours: **4.00** 

	No. of Acres:	42.66	Cost /Acre:	\$709.64
Estimate	ed Failure Rate:	20%	Cost /Acre*:	\$592.03
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$30,273.24			
Reseeding Job Cost:	\$5,051.20			
Total Job Cost:	\$35.324			

Task descr	iption:	Reseed West Pit with Sageb	rush Steppe See	ed Mix - Phase 2 Rel	
ite: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	<u>IDENTIFI</u>	CATION			
<b>T</b> 1#.	100C	State: Colorado		Abbreviation:	None
I ask #:	1000				
Task #: Date:	4/8/2025	County: Moffat		Filename:	100c

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

\$	
	\$
Total Mulch Application Cost/Acre so	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

	No. of Acres:	168.97	Cost /Acre:	\$709.64
Estimated Failure Rate:		20%	Cost /Acre*:	\$592.03
*Selected Replanting Work Items:		SEEDING		
Initial Job Cost:	\$119,907.87			
Reseeding Job Cost:	\$20,007.06		_	
Total Job Cost:	\$139,915			
Job Hours:	4.00		_	

Task descrip	otion:	Reseed South Taylor Pit wi	th Grazing La	and Seed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION			
Task #:	101	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	101
User:	HR1				
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35
Flax, Lewis Blue	0.25	1.66	\$10.57
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Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	¢0.00
Total Much Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nurserv Stock Cost / Acre				\$0.00	

Estimate	No. of Acres: ed Failure Rate:	456.1 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$267,165.14			
Reseeding Job Cost:	\$42,704.64			
Total Job Cost:	\$309,870			
Job Hours:	228.00			

Task descrip	otion:	Reseed South Taylor with Sa	agebrush St	eppe Seed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	State: Colorado		Abbraviation	None
Date: User:	4/8/2025 HR1	County: Moffat		Filename:	102
Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acr	e \$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	ck Cost / Acre	\$0.00

## JOB TIME AND COST

Job Hours: **4.00** 

	No. of Acres:	482.2	Cost /Acre:	\$709.64
Estimate	ed Failure Rate:	20%	Cost /Acre*:	\$592.03
*Selected Replanting	ng Work Items:	SEEDING		
Initial Job Cost:	¢212 188 11			
miniai Job Cost.	\$342,100.41			
Reseeding Job Cost:	\$57,095.37			
Total Job Cost:	\$399,284			

Task descri	ption:	Reseed Facility Area with G	razing Land Se	eed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJECT	IDENTIFIC	CATION			
Task #:	103A	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	C019-103a
User	HR1				

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre	
					\$	
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00	

Estimat	No. of Acres: ed Failure Rate:	29.8 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$17,455.65			
Reseeding Job Cost:	\$2,790.17			
Total Job Cost:	\$20,246			
Job Hours:	15.00			

Task descrip	otion:	Reseed Facility A	ea with Sa	gebrush Step	ope Seed Mix	
Site: Colowyo	Coal Mine	Perm	it Action:	MT9	Permit/Jo	b#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION				N.
Task #:	<u>103B</u>	State:	Colorado		Abbreviation:	None
Date:	4/8/2025	County:	Moffat		Filename:	1036
User:	HR1					
Age	ency or organiz	zation name:DRM	15			

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Mountain Brome - Bromar	0.50	0.80	\$3.01
Great Basin Wildrye - Magnar	0.20	0.81	\$2.34
Rocky Mountain Fescue	0.20	3.21	\$2.16
Slender Wheatgrass - Native	1.50	5.48	\$10.60
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Rabbitbrush, Rubber	1.00	14.90	\$83.40
Western Wheatgrass - Native	1.50	3.79	\$13.51

Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	1.00	52.80	\$82.70
Flax, Lewis Blue	0.20	1.33	\$8.46
Sagebrush, Silver	0.50	9.71	\$34.06
Saltbush, Four Wing	2.00	2.75	\$39.75
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	13.50	126.35	\$355.39

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

\$	
	\$
Total Mulch Application Cost/Acre so	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

	No. of Acres:	149.5	Cost /Acre:	\$709.64
Estimate	ed Failure Rate:	20%	Cost /Acre*:	\$592.03
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$106,091.18			
Reseeding Job Cost:	\$17,701.70		-	
Total Job Cost:	\$123,793		_	
Job Hours:	4.00		_	

Task descrip	otion:	Reseed Gossard Loadout wit	th Grazing La	and Seed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJECT	<b>IDENTIFIC</b>	ATION			
Task #:	104	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	104
User:	HR1				
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

Estimat	No. of Acres: ed Failure Rate:	15 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$8,786.40			
Reseeding Job Cost:	\$1,404.45		-	
Total Job Cost:	\$10,191		_	
Job Hours:	30.00		_	

Task descrip	otion:	Reseed Haul Road	l A with Gr	razing Land Seed Mix		
Site: Colowyo	Coal Mine	Pern	nit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION	Colorado		Abburristicus	Nore
I ask #: Date:	105	State:	<u>Colorado</u> Moffat		Abbreviation:	INONE 105
User:	HR1	County	wonat		Phename.	105
Age	ency or organiz	zation name: DRM	<u>4S</u>			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	36.6 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$21,438.82			
Reseeding Job Cost:	\$3,426.86		_	
Total Job Cost:	\$24,866		_	
Job Hours:	18.00		_	

Task descri	ption:	Reseed Haul Road B	with Grazing Land S	eed Mix	
Site: Colowyo	Coal Mine	Permit A	Action: MT9	Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	<u>IDENTIFIC</u>	ATION			
Task #:	106	State: Col	orado	Abbreviation:	None
Date:	3/28/2025	County: Mo	ffat	Filename:	106
User:	HR1				
Ag	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

		\$
Totals Seed Mix		\$

Description	Cost /Acre
	\$
Total Seed Application Cost/Acre	\$

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

	\$	6
Total Mulch Apr	olication Cost/Acre	80.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	10.6 20% SEEDING	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
Initial Job Cost:	\$6,209.06			
Reseeding Job Cost:	\$992.48		_	
Total Job Cost:	\$7,202			
Job Hours:	21.20			

Task description:		<b>Reseed Prospect Pond</b>	vith Grazing Land	Seed Mix		
Site: Colowyo Coal Mine		Permit Action: MT9		Permit/Jol	Permit/Job#: <u>C1981019</u>	
PROJECT	IDENTIFIC	ATION			X	
Task #:	107	State: Color	ado	Abbreviation:	None	
Date:	3/28/2025	County: Moffa	ıt	Filename:	107	
User:	HR1					
Age	ency or organiz	zation name: DRMS				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	2.6 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanting Work Items:		SEEDING		
Initial Job Cost:	\$1,522.98			
Reseeding Job Cost:	\$243.44			
Total Job Cost:	\$1,766			
Job Hours:	5.20			

Task description:		Reseed Rail Loop Pond with Grazing Land Seed Mix				
Site: Colowyo Coal Mine		Permit Action: MT9		Permit/Job#: <u>C1981019</u>		
PROJECT	<u>IDENTIFIC</u>	ATION				
Task #:	109	State: Colorado	1	Abbreviation:	None	
Date:	3/28/2025	County: Moffat		Filename:	109	
User:	HR1					
Age	ency or organiz	zation name: DRMS				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. Estimated Fail *Selected Replanting Wo	of Acres: 0.5 Jure Rate: 20% ork Items: SEEDING	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
Initial Job Cost: \$292 Reseeding Job Cost: \$46.8 Total Job Cost: \$340 Job Hours: 1.00	.88		

Task descrij	otion:	<b>Reseed Gossard Pond with</b>	Grazing Land	Seed Mix	
Site: Colowyo	Coal Mine	Permit Action	: <u>MT9</u>	Permit/Jol	o#: <u>C1981019</u>
PROJECT	<u>IDENTIFIC</u>	ATION			
Task #:	110	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	110
User:	HR1				
Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	1.5 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$878.64			
Reseeding Job Cost:	\$140.45			
Total Job Cost:	\$1,019			
Job Hours:	3.00			

Task descrip	tion:	Reseed Sewage and Aeration	Pond with Gr	azing Land Seed Mix	
ite: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
PROJECT 1	<u>IDENTIFIC</u>	CATION			
Task #: Date:	111 3/28/2025	State: Colorado County: Moffat		Abbreviation: Filename:	None 111
User:	HR1				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	2.9 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$1,698.70			
Reseeding Job Cost:	\$271.53		-	
Total Job Cost:	\$1,970		_	
Job Hours:	5.80		_	

Task descri	ption:	Reseed Stoker Siding Pond v	vith Grazing La	and Seed Mix (MR208)	
ite: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJECT	IDENTIFIC	CATION State: Colorado		Abbreviation	None
Date:	3/28/2025	County: Moffat		Filename:	112
	LID 1				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. of Acre Estimated Failure Rat *Selected Replanting Work Item	e: 0.8 20% s: SEEDING	Cost /Acre:   \$585.76     Cost /Acre*:   \$468.15
Initial Job Cost: \$468.61   Reseeding Job Cost: \$74.90   Total Job Cost: \$544   Job Hours: 0.40		

Task descrip	otion:	Reseed Wash Bay Pond wit	h Grazing La	and Seed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jo	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: Colorado		Abbreviation	None
Date: User:	3/28/2025 HR1	County: Moffat		Filename:	113
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description	Cost /Acre	
Drill Seeding (DRMS Survey Cost)	\$236.64	
Total Seed A	pplication Cost/Acre \$236.64	

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	3.6 20% SEEDING	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15	
Initial Job Cost: Reseeding Job Cost:	\$2,108.74 \$337.07				
Total Job Cost: Job Hours:	\$2,446 7.20				

Task descripti	on:	Reseed Wash Bay Sediment Sump with Grazing Land Seed Mix				
ite: Colowyo C	oal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>	
PROJECT II	DENTIFIC	CATION				
Task #:	114	State: <u>Colorado</u>		Abbreviation:	None	
User:	<u>3/28/2025</u> HR1	County: Morrat		Filename:	114	

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate *Selected Replanting	No. of Acres: ed Failure Rate: ng Work Items:	0.7 20% SEEDING	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
Initial Job Cost:	\$410.03			
Reseeding Job Cost:	\$65.54			
Total Job Cost:	\$476			
Job Hours:	1.40			

Task	k description:	Reseed Work Area Pond wit	th Grazing Land Seed Mix	
Site: C	olowyo Coal Mir	e Permit Action:	MT9 Permi	t/Job#: <u>C1981019</u>
<u>PRO</u>	DJECT IDENTI	FICATION State: Colorado	Abbrovistic	ny None
1	Date: $\frac{3/28/20}{4}$	5 County: Moffat	Abbreviato	ne: 115
	Agency or or	anization name: DRMS		

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	3.8 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$2,225.89			
Reseeding Job Cost:	\$355.79			
Total Job Cost:	\$2,582			
Job Hours:	7.60			

Task descrip	otion:	Reseed Section 16 P	ond with Grazing	Land Seed Mix	
Site: Colowyo	Coal Mine	Permit	Action: MT9	Perm	nit/Job#: <u>C1981019</u>
PROJECT Task # [.]	IDENTIFIC	ATION State: C	olorado	Abbreviat	ion: None
Date: User:	3/28/2025 HR1	County: N	loffat	Filena	me: 116
Ag	ency or organiz	zation name: DRMS	5		

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	4.6 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$2,694.50			
Reseeding Job Cost:	\$430.70			
Total Job Cost:	\$3,125		_	
Job Hours:	9.20		_	

Task descrip	ption:	Reseed East Taylor	Pond with Grazing La	nd Seed Mix	
Site: Colowyo	Coal Mine	Permit	Action: <u>MT9</u>	Permit/Job	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: Co	Jorado	Abbreviation	None
Date: User:	3/28/2025 HR1	County: M	offat	Filename:	117
Ag	ency or organi	zation name: DRMS			

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	1.7 20% SEEDING	Cost /Acre Cost /Acre	e: <u>\$585.76</u> :: \$468.15
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$995.79 \$159.17 \$1,155 3.40			

Task descrip	ption:	Reseed West Pit Po	ond with Grazing Land	l Seed Mix	
Site: Colowyo	Coal Mine	Permi	t Action: <u>MT9</u>	Permit/Job	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: (	olorado	Abbreviation	None
Date: User:	3/28/2025 HR1	County: N	Aoffat	Filename:	120
Ag	ency or organiz	zation name: DRM	S		

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

No. of Acres: Estimated Failure Rate:		3.1 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanting Work Items:		SEEDING		
Initial Job Cost:	\$1,815.86			
Reseeding Job Cost:	\$290.25		_	
Total Job Cost:	\$2,106		_	
Job Hours:	6.20		_	

Task description:		Reseed Section 28 Pond with Grazing Land Seed Mix			
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: Colorado		Abbroviation	None
Date: User:	3/28/2025 HR1	County: Moffat		Filename:	121
Ag	ency or organi	zation name:DRMS			

## **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35
Flax, Lewis Blue	0.25	1.66	\$10.57
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Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	2.5	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		+
Initial Job Cost:	\$1,464.40			
Reseeding Job Cost:	\$234.08			
Total Job Cost:	\$1,698			
Job Hours:	5.00			

Task description: Reseed West Taylor Pond with Grazing Land Seed Mix					
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: Colorado		Abbraviation	Nopo
Date:	3/28/2025	County: Moffat		Filename:	122
User:	HR1	·			
Age	ency or organiz	zation name: DRMS			

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	2.5	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		+
Initial Job Cost:	\$1,464.40			
Reseeding Job Cost:	\$234.08			
Total Job Cost:	\$1,698			
Job Hours:	5.00			

Task descrip	otion:	Reseed Perimeter Ditches wi	ith Grazing La	and Seed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: Colorado		Abbreviation	None
Date: User:	3/28/2025 HR1	County: Moffat		Filename:	123
Age	ency or organiz	zation name: DRMS			

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nurserv Stock Cost / Acre					\$0.00

Estimat	No. of Acres: ed Failure Rate:	29.6 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$17,338.50			
Reseeding Job Cost:	\$2,771.45			
Total Job Cost:	\$20,110			
Job Hours:	15.00			

Т	ask descrip	tion:	Reseed Aspen Reestablishme	ent Area		
Site:	Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	C1981019
<u>PI</u>	ROJECT	IDENTIFIC	CATION			
	Task #:	124	State: Colorado		Abbreviation:	None
	Date: User:	3/28/2025 HR1	County: Moffat		Filename:	124
	Age	ency or organi	zation name: DRMS			

# **FERTILIZING**

# Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	<b>40.00</b>
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$245.24
Total Tilling Cost/Acre	\$245.24

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Bitterbrush, Antelope	1.50	0.46	\$84.77
Mountain Brome - Bromar	0.30	0.48	\$1.81
Russian Wildrye - Vinal	0.20	0.80	\$1.45
Chokecherry	1.20	0.08	\$59.35
Rocky Mountain Fescue	0.20	3.21	\$2.16
Maple, Rocky Mountain	1.20	0.21	\$76.42
Slender Wheatgrass - Pryor	0.20	0.73	\$1.24
Mahogany, Curlleaf Mountain	1.20	1.43	\$105.97

Mahogany, Mountain	1.20	1.63	\$121.14
Rabbitbrush, Rubber	0.15	2.23	\$12.51
Vetch, American	0.30	0.14	\$36.93
Needlegrass, Green - Lodorm	0.20	0.83	\$1.73
Rose, Wood's	0.50	0.00	\$26.69
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.20	1.33	\$8.46
Serviceberry, Utah	2.40	4.52	\$184.73
Snowberry, Mountain	1.50	2.58	\$88.59
Winter Fat	0.50	1.27	\$23.36
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	14.30	52.34	\$892.95

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Polyprop. mesh, staples Material (MEANS 31 25 14.16 0200)	1.00	ACRE	\$5,517.60	\$5,517.60
Total Mulch Materials Cost/Acre				\$5,517.60

### Application

	¢
	φ
Total Mulch Application Cost.	

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Aspen	550	Container, 1 gallon (MEANS)	\$21.64	\$0.00	\$11,902.00
Totals Nursery Stock Cost / Acre \$11,9					\$11,902.00

#### JOB TIME AND COST

No. of Acres:	12	Cost /Acre:	\$18,794.43
Estimated Failure Rate:	45%	Cost /Acre*:	\$13,031.59
*Selected Replanting Work Items:	SEEDING, NURSERY		
Initial Job Cost: \$225 533 16			

Initial Job Cost: **\$225,533.16** 

Reseeding Job Cost:	\$70,370.59
Total Job Cost:	\$295,904
Job Hours:	24.00

Т	ask descrip	otion:	Plant Tall Shrub Reestablis	nment Areas		
Site:	Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	t: <u>C1981019</u>
<u>P</u> F	ROJECT	IDENTIFIC	ATION			N
	Task #:	125	State: Colorado		Abbreviation:	None
	Date:	3/28/2025	County: Moffat		Filename:	125
	User:	HR1				
	Age	ency or organi	zation name: DRMS			

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Chisel plowing {DMG}	\$102.41
Total Tilling Cost/Acre	\$102.41

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.20	4.13	\$3.17
Bitterbrush, Antelope	1.50	0.46	\$84.77
Mountain Brome - Bromar	0.30	0.48	\$1.81
Russian Wildrye - Vinal	0.20	0.80	\$1.45
Chokecherry	1.20	0.08	\$59.35
Rocky Mountain Fescue	0.20	3.21	\$2.16
Maple, Rocky Mountain	1.20	0.21	\$76.42
Slender Wheatgrass - Pryor	0.20	0.73	\$1.24
Mahogany, Curlleaf Mountain	1.20	1.43	\$105.97

Mahogany, Mountain	1.20	1.63	\$121.14
Rabbitbrush, Rubber	0.15	2.23	\$12.51
Vetch, American	0.30	0.14	\$36.93
Needlegrass, Green - Lodorm	0.20	0.83	\$1.73
Rose, Wood's	0.50	0.00	\$26.69
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.20	1.33	\$8.46
Serviceberry, Utah	2.40	4.52	\$184.73
Snowberry, Mountain	1.50	2.58	\$88.59
Winter Fat	0.50	1.27	\$23.36
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.20	3.13	\$12.28
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	14.30	52.34	\$892.95

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Polyprop. mesh, staples Material (MEANS 31 25 14.16 0200)	1.00	ACRE	\$5,517.60	\$5,517.60
Total Mulch Materials Cost/Acre				\$5,517.60

#### Application

	\$
lication Cost/Acre	¢0.00
1	lication Cost/Acre

### NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Mahogany, Mountain	275	Container, 1 gallon (MEANS)	\$21.44	\$0.00	\$5,896.00
Serviceberry, Utah	275	Container, 1 gallon (MEANS)	\$21.44	\$0.00	\$5,896.00
		Totals	Nursery Stoc	k Cost / Acre	\$11,792.00

### JOB TIME AND COST

No. of Acres:18Cost /Acres:\$18,541.60Estimated Failure Rate:45%Cost /Acre*:\$12,921.59*Selected Replanting Work Items:SEEDING,NURSERY\$12,921.59

Initial Job Cost:	\$333,748.80
Reseeding Job Cost:	\$104,664.88
Total Job Cost:	\$438,414
Job Hours:	36.00

Task descrip	otion:	Weed Control - 10% of R	eseeded Areas Fo	our Times	
Site: Colowyo	Coal Mine	Permit Action	n: <u>MT9</u>	Permit/Jol	o#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION State: Coloradi	D	Abbreviation	None
Date: User:	3/28/2025 HR1	County: Moffat		Filename:	126
Age	ency or organiz	zation name: DRMS			

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

### **Application**

Description	Cost /Acre
	\$

# Total Seed Application Cost/Acre\$0.00

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	2.00	ACRE	\$4.13	\$8.25
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	2.00	ACRE	\$3.86	\$7.73
Total Mulch Materials Cost/Acre				\$15.98

### Application

Description	Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]	\$209.61
Total Mulch Application Cost/Acre	\$209.61

# **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

No. of Acres:	1134	Cost /Acre:	\$225.59
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$255,819.06
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$255,819
Job Hours:	1,280.00

### **DEMOLITION WORK**

r.	Task description:	Demolish and Remove all I	<b>Facilities</b>		
Site:	Colowyo Coal Mine	Permit Action:	MT9	Permit/J	lob#: <u>C1981019</u>
PROJE	CT IDENTIFICATIO	N			
Task #:	127	State: Colorado		Abbreviation:	None
Date:	2/6/2025	County: Moffat		Filename:	127
User:	HR1				
	Agency or organiza	tion name: DRMS			

# UNIT COSTS

# Location adjustment: 91.30 %

Structure or Item		Demolition Menu				
Description	Dimensions	Selection	Quantity	Unit	Unit Cost	Total Cost
Wilson Pond Pump house	16' x 16' x 11'h	Bldg. (SN) demo./on- site disposal in existing	2,816.00	CF	\$0.24	\$685.41
		pit or cut - Max. 10,000 ft. haul				
Wilson pond pump house foundation	16'x16'x1	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	256.00	SF	\$2.31	\$592.15
Wilson Pond wet well	17' x 28' x1 '	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	476.00	SF	\$2.31	\$1,101.04
Fencing 8ft. high	210 L.F.	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	210.00	LF	\$3.53	\$741.30
Gaurd shcak building	18' x 22' x 11'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	4,356.00	CF	\$0.24	\$1,060.25
Guard shack foundation	18' x 22' x .3'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	396.00	SF	\$0.77	\$305.32
Storage shed	10'X 8' x 9'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	720.00	CF	\$0.24	\$175.25
Asphalt parking lot	80' x 15'	Pavement, bituminous, demolition only - 3 in. thick	133.00	SY	\$5.28	\$702.24
rock wall front	20'1 X3'w x 9'h	Wall, block, demolition only, 12 in. thick - Vertical reinforcing	180.00	SF	\$1.60	\$287.28
Rock wall (back)	44' X 3'W X5'H	Wall, block, demolition only, 12 in. thick - Vertical reinforcing	220.00	SF	\$1.60	\$351.12
Main admin Building	136'L X 64'W X 31'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	269,824.00	CF	\$0.33	\$88,664.17
Main building floor	136' x 64' x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max.	8,704.00	SF	\$1.93	\$16,777.83

		10.000 ft. haul				
Lower level entrance structure	31' x 25' x 25'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000	19,375.00	CF	\$0.33	\$6,366.63
lower level entrance floor	31' x 25' x 10" th	ft. haul Demo. and on-site disposal in existing pit, 10 in. thick - Max.	775.00	SF	\$1.93	\$1,493.89
Upper level North entrance struct.	30' x 8' x 13'	10,000 ft. haul Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000	3,120.00	CF	\$0.24	\$759.41
Upper level N entrance floor	30' x 8' x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	240.00	SF	\$1.93	\$462.62
Upper level W entrance struct.	22' x 16' 28'h	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	9,856.00	CF	\$0.33	\$3,238.68
Upper level W entrance floor	22'l x 16' w x 10" th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	352.00	SF	\$1.93	\$678.52
Upper asphalt parking are	206' l x 206'w	Pavement, bituminous, demolition only - 3 in. thick	4,715.10	SY	\$5.28	\$24,895.73
Lower Asphalt parking area	169'l x 169'w	Pavement, bituminous, demolition only - 3 in. thick	3,173.40	SY	\$5.28	\$16,755.55
Taylor Creek Pump House	16'X 16' x 11'h	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	2,816.00	CF	\$0.24	\$685.41
Taylor Creek Pump house concrete	16' x 16' x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10.000 ft. haul	256.00	SF	\$2.31	\$592.15
TC pump house concrete apron	6' x 3' x 1'th.	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	54.10	SF	\$2.31	\$125.14
Old Pump house concrete pad	12'x 16' x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10.000 ft. haul	192.00	SF	\$2.31	\$444.12
Pump inlet system	17' x 31'x 1'th.	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10.000 ft. haul	527.00	SF	\$2.31	\$1,219.00
Water tank #6	20K gal.	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	2,673.80	CF	\$0.24	\$650.80
Production office main building	270'l x 42'w x 15'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	170,100.00	CF	\$0.24	\$41,402.34

Prod office main	270'l v 42'w v	Demo and on site	11 3/0 00	SE	\$1.03	\$21 858 98
building concrete	10"th	disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	11,540.00	ы	φ1.73	φ21,030.90
Prod. office concrete porch	270'l x 5'w x 12'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	14,850.00	SF	\$2.31	\$34,349.54
Asphalt Employee Parking lot	298'x 298'	Pavement, bituminous, demolition only - 3 in. thick	9,867.10	SY	\$5.28	\$52,098.29
Firehouse	10' x 8'x 8'h.	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	640.00	CF	\$0.24	\$155.78
Admin services building	64'x 24'x 14'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	21,504.00	CF	\$0.24	\$5,234.07
admin blg. entryway	16'w 8'x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10 000 ft haul	1,280.00	CF	\$0.24	\$311.55
covered stairs Employee Pkg N	25'l x 3'w x 7'h	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	50.00	LF	\$4.63	\$231.31
covered stairs Employee pk E	25'l x 3'w x 7'h	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	50.00	LF	\$4.63	\$231.31
covered stairs Employee pk S	25'lx 3'w x 7'h	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	50.00	LF	\$4.63	\$231.31
open stairs employee pk S	25'l x3'w x7'h	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	50.00	LF	\$4.63	\$231.31
open stairs employee pk N	25'l x 3'w x 7'h	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	50.00	LF	\$4.63	\$231.31
Truck shop and warehouse building	204'l x 60'w x 54'h	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	660,960.00	CF	\$0.33	\$217,191.46
Main shop building concrete	204'l x 60'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	24,480.00	SF	\$2.31	\$56,624.69
Tire shop building	80'l x 70'w. 54'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	302,400.00	CF	\$0.35	\$105,114.24
Tire shop building concrete	80'l x 70'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	11,200.00	SF	\$2.31	\$25,906.72

Office area building	162'l x 65'w x 26'h	Bldg. (MN) demo./on- site disposal in	273,780.00	CF	\$0.35	\$95,165.93
		10,000 ft. haul				
Office Area bldg. concrete	162'w x 65'w x1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	10,530.00	SF	\$2.31	\$24,356.94
Compressor building	45'l x 28'w x 15'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	18,900.00	CF	\$0.24	\$4,600.26
Compresor building concrete	45'l x 28'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	1,260.00	SF	\$1.93	\$2,428.78
1993 warehouse addition	50'w x 75'l x 30'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	112,500.00	CF	\$0.35	\$39,105.00
1993 warehouse addition concrete	50'w x75'l x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	3,750.00	SF	\$2.31	\$8,674.13
Warehouse cold- storage structure	76'l x 51'w x 17'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	65,892.00	CF	\$0.24	\$16,038.11
Warehouse cold storage-concrete	76'l x51'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	3,876.00	SF	\$2.31	\$8,965.58
Quonset Hut #1	40'l x 10'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,200.00	CF	\$0.24	\$778.88
Quonset Hut #2	40'l x 10'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,200.00	CF	\$0.24	\$778.88
Storage trailer (portable)	50'l x 10'w x10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	5,000.00	CF	\$0.24	\$1,217.00
Skid mounted building (portable)	20'l x8'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,280.00	CF	\$0.24	\$311.55
Paint storage building	30'l x 9'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	2,160.00	CF	\$0.24	\$525.74
Paint storage building (concrete)	30'1 x 9'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	270.00	SF	\$1.93	\$520.45
Battery Core Storage Building	12'lx 10'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max.	960.00	CF	\$0.24	\$233.66

		10,000,0,1,1				
Fire Pump Room	22'l x 15'w x 13'h	Bldg. (SN) demo./on- site disposal in	4,290.00	CF	\$0.24	\$1,044.19
		excavated pit - Max. 10,000 ft. haul				
Fire Pump Room Concrete	22'l x 15'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	330.00	SF	\$2.31	\$763.32
Fire pump room concrete apon	26'l x 15'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	390.00	SF	\$2.31	\$902.11
Additional tool storage	30'l x 15'w x 14'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	6,300.00	CF	\$0.35	\$2,189.88
additional tool storage concrete	30'x 15'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	450.00	SF	\$2.31	\$1,040.90
Warehouse yard fence	1680l.ft.	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	1,680.00	LF	\$3.53	\$5,930.40
Lube trainler (portable)	40;l x 10'w x 12'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,800.00	CF	\$0.24	\$1,168.32
Main shop concrete apron	204'lx 20'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	8,160.00	SF	\$2.31	\$18,874.90
South Tire shop	21'l x 12'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	252.00	SF	\$2.31	\$582.90
East Tire Shop	30'l x 41'w x 2 ft' th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	2,460.00	SF	\$2.31	\$5,690.23
North Tire shop	43'l x 12'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	516.00	SF	\$2.31	\$1,193.56
Machine shop concrete	75'l x 28'w x 10" th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	2,100.00	SF	\$1.93	\$4,047.96
Receiving dock concrete	68'l x 28'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	1,904.00	SF	\$1.93	\$3,670.15
Warehouse yard asphalt	331' <del>1 x 331'</del> w	Pavement, bituminous, demolition only - 3 in. thick	12,173.40	SY	\$5.28	\$64,275.55
Tire shop asphalt	60'l x 60'w	Pavement, bituminous, demolition only - 3 in. thick	400.00	SY	\$5.28	\$2,112.00

Surface Oil Tank #1 5K gal.	5000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal	1.00	EA	\$259.50	\$259.50
oil tank #1 disposal	5000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Surface Oil Tank #2 5K gal.	5000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
oil tank #2 disposal	5000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Surface Oil Tank #3 2K gal	2000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
oil tank #3 disposal	2000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Surface Oil Tank #4 1K gal.	1000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
surface oil tank #4 disposal	1000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Surface Oil Tank #8 6K	6000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
surface oil tank #8 disposal	6000 gal	Haul tank to certified salvage dump - 6,000 to 8,000 gal. tank	1.00	EA	\$880.00	\$880.00
Surface Oil Tank #9 4K gal	4000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
surface oil tank #9	4000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Surface Oil Tanks #10, #11, & #12	1150 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
dispose of oil tanks 10, 11, &12	1150 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
dispose of oil sludge from all tanks	5% tank vol.	Dispose of tank sludge	1,206.00	GAL	\$6.80	\$8,200.80
Oil handling building	50'l x 52'w x19'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	49,400.00	CF	\$0.24	\$12,023.96
Oil handling building foundation	50'l x 52'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	2,600.00	SF	\$2.31	\$6,014.06

Dozer and bucket	120'l x 40'w x	Bldg (MN) demo /on-	115 200 00	CF	\$0.35	\$40,043,52
repair shop building	24'h	site disposal in	115,200.00	CI	ψ0.35	φ+0,0+3.32
repuir shop buriding	2.1.11	excavated pit - Max.				
		10,000 ft. haul				
Shop building	120'l x 40'w x	Demo. and on-site	9,600.00	SF	\$2.31	\$22,205.76
foundation	2'th	disposal in existing pit,	,			
		12 in. thick - Max.				
		10,000 ft. haul				
Electrical Repair	40'l x 48'w. x	Bldg. (MN) demo./on-	34,560.00	CF	\$0.35	\$12,013.06
Shop	18'h	site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
Electrical shop	40'l x 48'w x	Demo. and on-site	1,920.00	SF	\$1.93	\$3,700.99
foundation	10"th	disposal in existing pit,				
		10 in. thick - Max.				
<b>T</b> 1	4011 201	10,000 ft. haul	0.60.00	CT.	¢2.21	¢2,220,50
Electrical shop	48'l x 20'w x	Demo. and on-site	960.00	SF	\$2.31	\$2,220.58
concrete apron	l'th	disposal in existing pit,				
		12  in. thick - Max.				
Shop office building	6011 191	Dida (SN) dama (an	40.220.00	CE	\$0.24	¢0.912.90
shop office building	001 X 40 W. X	site disposal in	40,320.00	Сг	\$0.24	\$9,013.09
	1 - 11	excavated pit - Max				
		10 000 ft haul				
Shop office concrete	60' x 48'w. x	Demo, and on-site	2.880.00	SF	\$1.93	\$5.551.49
~r	10"th	disposal in existing pit.	_,	~	+	+++++++++++++++++++++++++++++++++++++++
		10 in. thick - Max.				
		10,000 ft. haul				
Light vehicle repair	100'l x 48'w.	Bldg. (SN) demo./on-	67,200.00	CF	\$0.24	\$16,356.48
shop	14'h	site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
Light vehicle shop	100'l x 48'w x	Demo. and on-site	4,800.00	SF	\$2.31	\$11,102.88
concrete	1'th	disposal in existing pit,				
		12 in. thick - Max.				
X7	2511 401 1	10,000 ft. haul	27,000,00	CE	¢0.25	¢10.0 <i>c</i> 1.00
Ventilation addition-	251 x 40'w' x	Bldg. (MIN) demo./on-	37,000.00	CF	\$0.35	\$12,861.20
structure	57 N	site disposal in				
		10000ft have				
Ventilation addition	25'l x 40'w x	Demo and on-site	2 000 00	SE	\$2.31	\$4 626 20
concrete	251 X 10 W. X	disposal in existing pit	2,000.00	51	φ2.51	¢1,020.20
concrete	2 11	12 in thick - Max				
		10,000 ft. haul				
Ventilation addition	30'l x 3'w x 2'th	Demo. and on-site	180.00	SF	\$2.31	\$416.36
conc. apron		disposal in existing pit,				
_		12 in. thick - Max.				
		10,000 ft. haul				
Lavatory area	13'l x 12'w x	Bldg. (SN) demo./on-	1,560.00	CF	\$0.24	\$379.70
building	10'h	site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
Lavatory area	13'l x 12'h x	Demo. and on-site	156.00	SF	\$2.31	\$360.84
concrete	1 th	disposal in existing pit,				
		12  In. tnick - Max.				
Fire protection	10'l y 8'm y 10'h	Bldg (SN) dome /on	800.00	CF	\$0.24	\$104.72
building	101 X 0 W X1011	site disposal in	000.00		φ0.24	φ1 <b>74.</b> /Δ
Junuing		excavated nit - Max				
L	1	enouvered pit mus.	1	1	1	1

		10,000 ft. haul				
Electrical storage (portable)	10'w x 10'l x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	800.00	CF	\$0.24	\$194.72
Electrical storage concrete pad	52'l x 14'w x 10"th.	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	728.00	SF	\$1.93	\$1,403.29
Open storage (skid mounted)	10' l x 6'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	480.00	CF	\$0.24	\$116.83
Dozer repair storage	28'l x 13'w x 12'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,368.00	CF	\$0.24	\$1,063.17
Open storage (permanent mount)	29'l x 6'w x10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,740.00	CF	\$0.24	\$423.52
Surface Oil Tank #5 700 gal	700 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Surface oil tank #5 concrete pad	16'w x 16'l x1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	256.00	SF	\$2.31	\$592.15
Deisel Fuel Island concrete	20'l x 4'w x1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	80.00	SF	\$2.31	\$185.05
Regular fuel island	6'l x 4'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	24.00	SF	\$2.31	\$55.51
Unleaded fuel island	6'l x 4'w x1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	24.00	SF	\$2.31	\$55.51
Truck scales	50'l x 10'w x 3'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,500.00	CF	\$0.24	\$365.10
Truck scales concrete	169'1 x 5'w x1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	845.00	SF	\$2.31	\$1,954.57
Truck Scales steel guardrail	50'l x 3'h	Railing, roadside guiderail and posts (posts on 20 ft. centers)	50.00	LF	\$18.79	\$939.50
Scale building	4'l x 4'w x 7'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	112.00	CF	\$0.24	\$27.26
Lab Crusher building-structure	21'l x 18'w x 15lh	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	50,400.00	CF	\$0.35	\$17,519.04

Lab Crusher building concrete	21'l x 18'w x 10" th	Demo. and on-site disposal in existing pit,	378.00	SF	\$1.93	\$728.63
		10 in. thick - Max. 10,000 ft. haul				
Lab Crusher building	16'l x 5'w x 10"	Demo. and on-site	80.00	SF	\$1.93	\$154.21
concrete apron	th	disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul				
Unleaded fuel Tank #7 19K gal	19000 gal	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$432.00	\$432.00
Dry ice prep for transport	285 lbs	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	285.00	LB	\$2.11	\$601.35
Unleaded fuel tank #7	19000 gal	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Diesel Fuel tank #5 10K gal	10000 gal	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$432.00	\$432.00
Dry Ice prep D Fuel Tank #5	150 lbs	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	150.00	LB	\$2.11	\$316.50
Diesel Fuel Tank #7	10000 gal	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Main substation concrete	37'l x 25'w x 1'th	Demo. and on-site disposal in excavated pit, 10 in. thick - Max. 200 ft. push	925.00	SF	\$2.07	\$1,911.24
Fencing	248 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	248.00	LF	\$3.53	\$875.44
Main Wash Bay building	50'l x 42'w x 24'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	50,400.00	CF	\$0.35	\$17,519.04
Main Wash bay foundation	50'l x42'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	4,200.00	SF	\$2.31	\$9,715.02
light vehicle wash bay building	30'l x 15'w x 11'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,950.00	CF	\$0.24	\$1,204.83
Light vehicle wash bay foundation	30'l x 15'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	450.00	SF	\$2.31	\$1,040.90
Furance Room	26'l x 12'w x 11'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,432.00	CF	\$0.24	\$835.35
Furnace room foundation	26'l x 12'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max.	312.00	SF	\$2.31	\$721.69

Wash Bay 1993	90'l x 20'w x	10,000 ft. haulBldg. (MN) demo./on-	84,000.00	CF	\$0.35	\$29,198.40
addition	18'h	site disposal in excavated pit - Max. 10.000 ft. haul				
Wash bay 1993 addition foundation	90'l x 20'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	2,800.00	SF	\$2.31	\$6,476.68
New 1993 furnace room	50'l x 40'w x 42'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	32,400.00	CF	\$0.35	\$11,262.24
New 1993 furnace room foundation	70'l x 40'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	3,600.00	SF	\$2.31	\$8,327.16
Concrete sump floors	44'; x 29'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,276.00	SF	\$2.31	\$2,951.52
Concrete sump walls	151'l x 4'h x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	604.00	SF	\$2.31	\$1,397.11
Wash bay area light duty apron	17'l x 28'w x1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	476.00	SF	\$2.31	\$1,101.04
Wash Bay area North Apron	90'l x 34'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	6,120.00	SF	\$2.31	\$14,156.17
Wash Bay Area South Apron	25'l x 34'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,700.00	SF	\$2.31	\$3,932.27
Wash Bay area Sump tie in Apron	62'l x 22'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,364.00	SF	\$2.31	\$3,155.07
SW Reclamation building	42'l x 25'w x 15'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	15,750.00	CF	\$0.24	\$3,833.55
SW reclamation building foundation	50'l x 49'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	2,450.00	SF	\$1.93	\$4,722.62
SW Reclamation building concrete apron	25'l x 19'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	475.00	SF	\$1.93	\$915.61
SW Trailer #1 (portable)	40'l x 10'w x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,000.00	CF	\$0.24	\$973.60
SW Trailer #2 (portable)	40'l x 10'w x10'h	Bldg. (SN) demo./on- site disposal in	4,000.00	CF	\$0.24	\$973.60

		excavated pit - Max. 10 000 ft haul				
skid mounted utility storage	10' x 10' x 10'	Bldg. (SN) demo./on- site disposal in excavated pit - Max.	1,000.00	CF	\$0.24	\$243.40
Skid mounted utility storage concrete footers	10' + 10'	10,000 ft. haul Demo. and on-site disposal in excavated pit, 1.0 ft. x 2 ft Max.	20.00	LF	\$4.96	\$99.18
Fuel Tank #1 209K gal	209000 gal	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	27,941.20	CF	\$0.35	\$9,712.36
Fuel Tank #2 209K gal	35' dia.	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	27,941.20	CF	\$0.35	\$9,712.36
Fuel Tank #3 243K gal	35' dia	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	32,486.60	CF	\$0.35	\$11,292.34
Sludge removal 3 fuel tanks	3 tanks	Remove sludge, water, and rem. product from tank - 9,000 to 12,000	3.00	EA	\$432.00	\$1,296.00
Water Tank #1 200K gal	35'dia.	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	26,738.00	CF	\$0.35	\$9,294.13
Water Tank #2 50K gal	18'dia.	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	6,684.50	CF	\$0.35	\$2,323.53
Water Tank #3 20K gal	12' dia.	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	2,673.80	CF	\$0.35	\$929.41
dispose of fuel tank sludge in certified landfill	35000 gal	Dispose of tank sludge off-site - Average	35,000.00	GAL	\$6.80	\$238,000.00
Dry ice for Fuel Tanks	10500 lbs	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	10,500.00	LB	\$2.11	\$22,155.00
Haul 3 fuel tanks to certified dump	3	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	3.00	EA	\$1,050.00	\$3,150.00
Water Tank #4 25K gal	12' dia.	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,342.20	CF	\$0.35	\$1,161.75
Emulsion Storage Tank 140,000 Lbs.	10'l x 10'w x 6'h	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	600.00	SF	\$1.16	\$693.90
ANFO Bin #1 120K lbs	10'l x 10'w x 42'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	4,200.00	CF	\$0.35	\$1,459.92

ANFO Bin #1	62'l x 21'w	Demo. and on-site	1,302.00	SF	\$2.31	\$3,011.66
Concrete	x1'th	disposal in existing pit,				
		12  in. thick - Max.				
Anfo Bin #1 concrete	6'l x 11'w x1'th	Demo and on-site	66.00	SF	\$2.31	\$152.66
apron	01X 11 w XI th	disposal in existing pit,	00.00	51	ψ2.51	φ1 <i>32</i> .00
1		12 in. thick - Max.				
		10,000 ft. haul				
ANFO bin #2 120K	10'l x 10'w x	Bldg. (MN) demo./on-	4,200.00	CF	\$0.35	\$1,459.92
lbs.	42'h	site disposal in				
		10000ft haul				
ANFO bin #2	6'l x 11'w x 1'th	Demo. and on-site	66.00	SF	\$2.31	\$152.66
concrete apron		disposal in existing pit,				
		12 in. thick - Max.				
Detable meter	101 - 16	10,000 ft. haul	2 244 00	CE	¢0.25	¢1 160 27
Potable water building	191X 10W	site disposal in	3,344.00	CF	\$0.35	\$1,102.37
ounding	XIIII	excavated pit - Max.				
		10,000 ft. haul				
Potable water	19 x 16 x 10"th	Demo. and on-site	304.00	SF	\$2.31	\$703.18
building concrete		disposal in existing pit,				
		12  in. thick - Max.				
Potable water	16'l x 10'w	Demo, and on-site	160.00	SF	\$2.31	\$370.10
building concrete	x'10" th	disposal in existing pit,	100100	~	<i><i><i>q</i>=101</i></i>	<i>QC</i> / 0110
apron		12 in. thick - Max.				
		10,000 ft. haul	-		<b>**</b>	<b>*</b> • • • • • • • •
Fuel loading area	140'l x 50'w x	Demo. and on-site	7,000.00	SF	\$2.31	\$16,191.70
	1 th	12 in thick - Max				
		10,000 ft. haul				
Record storage	55'l x 10'w x	Bldg. (SN) demo./on-	6,600.00	CF	\$0.24	\$1,606.44
boxcar	12'h	site disposal in				
		excavated pit - Max.				
Potable water	19'l y 16'w y	10,000 ft. haul Bldg. (SN) demo /on-	3 344 00	CE	\$0.24	\$813.93
filtration building	11'h	site disposal in	3,344.00	CI	φ <b>0.2</b> <del>1</del>	ψ015.75
8		excavated pit - Max.				
		10,000 ft. haul				
Potable water	19'w x 16'l x	Demo. and on-site	304.00	SF	\$2.31	\$703.18
filtration building	10" th	disposal in existing pit,				
concrete		12.000 ft. haul				
South Taylor pump	32'l x 27'w x	Bldg. (SN) demo./on-	8,640.00	CF	\$0.24	\$2,102.98
station	10'h	site disposal in				
		excavated pit - Max.				
South Toylor nump	20'l y 07"wy y	10,000 ft. haul	864.00	SE	\$1.03	\$1.665.45
stn concrete	10'' th	disposal in existing pit	804.00	51	\$1.95	\$1,005.45
		10 in. thick - Max.				
		10,000 ft. haul				
Blasters shack	55'l x 10'w	Bldg. (SN) demo./on-	6,600.00	CF	\$0.24	\$1,606.44
	x12h	site disposal in				
		10.000 ft. haul				
WH Valve house	8'w x8'l'x 9'h	Bldg. (SN) demo./on-	576.00	CF	\$0.24	\$140.20
		site disposal in				
		excavated pit - Max.				

		10,000 ft. haul				
WH Valve house	8'1 x 8'w x	Demo. and on-site	64.00	SF	\$1.93	\$123.37
foundation	10"th	disposal in existing pit, 10 in thick - Max				
		10,000 ft. haul				
WH Aerial waterline	145 LF	Pipe, sewer/water - 12 in. diameter pipe	145.00	LF	\$5.24	\$759.80
WH steel fence	70 LF	Fencing, chain link,	70.00	LF	\$3.53	\$247.10
		including posts and				
		fabric - 8 ft. to 10 ft.				
WH Water Tank #5	51000 gal	Bldg. (MN) demo./on-	6.856.00	CF	\$0.35	\$2.383.15
51K gal	C	site disposal in	,			
		excavated pit - Max.				
Stoker Concrete	12'l v10'w v8'h	10,000 ft. haul Bldg. (SC) demo /on	960.00	CE	\$0.31	\$294.43
Pump house	121 XIU w XUII	site disposal in	900.00	CI	φ0.51	\$27 <b>4.4</b> 3
<b>r</b>		excavated pit - Max.				
		10,000 ft. haul				
Stoker pump house	12'l x 10'w	Demo. and on-site	120.00	SF	\$2.31	\$277.57
Toundation	XI UI	12 in. thick - Max.				
		10,000 ft. haul				
Stoker Hopper &	2256 cf	Bldg. (MN) demo./on-	2,256.00	CF	\$0.35	\$784.19
structure		site disposal in				
		10.000 ft. haul				
Stoker stacking	84'1	OBSOLETE-Conveyor,	84.00	LF	\$44.51	\$3,738.76
conveyor #1		elevated, including				
		supports - 5 ft. W x 6				
Stoker stacking	74'1	OBSOLETE-Conveyor	74.00	LF	\$44.51	\$3 293 67
conveyor #2	/ 11	elevated, including	7 1.00	121	φ11.51	ψ <del>0,2</del> 95.01
-		supports - 5 ft. W x 6				
Stoleon Crushon	24'1 11'	ft. H housing	6 600 00	CE	\$0.25	\$2,204,16
Stoker Crusher	241 x 11 w x 25'h	site disposal in	0,000.00	Cr	\$0.55	\$2,294.10
	25 11	excavated pit - Max.				
		10,000 ft. haul				
Stoker crusher	10'l x 9'w x 2	Demo. and on-site	180.00	SF	\$2.31	\$416.36
Toundation	u	12 in thick - Max				
		10,000 ft. haul				
Stoker control	10'l x 10'w x9'h	Bldg. (SN) demo./on-	900.00	CF	\$0.24	\$219.06
building		site disposal in				
		10 000 ft haul				
Stoker control blg.	10'l x 10'w x	Demo. and on-site	100.00	SF	\$1.93	\$192.76
foundation	10"th	disposal in existing pit,				
		10 in. thick - Max.				
Stoker Feeder bin	24' dia	Bldg (MN) demo /on-	10 948 00	CF	\$0.35	\$3 805 52
	21 dia.	site disposal in	10,9 10.00		<i><b>\$0.55</b></i>	\$5,005.02
		excavated pit - Max.				
Ctology for dry 1 1	4211 - 141	10,000 ft. haul	<b>5</b> 00 00	0E	¢0.21	\$1.260.10
Sloker leeder bin	421 X 14 W X 1'th	disposal in existing pit	588.00	SF	\$2.31	\$1,360.10
10unuulon		12 in. thick - Max.				
		10,000 ft. haul				

Stoker feeder bin #2	20' dia.	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	8,075.00	CF	\$0.35	\$2,806.87
Stoker feeder Bin #2 foundation	42'l x 14'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	588.00	SF	\$2.31	\$1,360.10
StokerVibrating screen house	23'l x 23'w x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	5,290.00	CF	\$0.24	\$1,287.59
Operations building	10'l x 10'w x8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	800.00	CF	\$0.24	\$194.72
Operations blg. support structure	24'l x 13'w x12'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	3,744.00	CF	\$0.24	\$911.29
Water Tank #7 10K gal Stoker Oil Tank #4	10000 gal	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul Remove sludge, water.	1,347.00	CF	\$0.35	\$468.22
8K gal	120 lbs	and rem. product from tank - 6,000 to 8,000 gal.	120.00	LB	\$2.11	\$253.20
Ice	120105	tank to produce inert gas - 1.5 lbs./100 gal.	120.00		ψ2.11	<i>\$233.20</i>
Dispose of oil sluge in aproved landfill	400 gal	Dispose of tank sludge off-site - Average	400.00	GAL	\$6.80	\$2,720.00
Stoker oil tank #4 haul to landfill	8000 gal	Haul tank to certified salvage dump - 6,000 to 8,000 gal. tank	1.00	EA	\$880.00	\$880.00
Stoker oil tank #4 foundation	10'l x 10'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	100.00	SF	\$1.93	\$192.76
Crusher Pump Room	20'l x 8'w x8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,280.00	CF	\$0.24	\$311.55
Crusher pump room foundation	20'l x 8'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	160.00	SF	\$1.93	\$308.42
Crusher pump room Apron	15'l x 5'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	75.00	SF	\$1.93	\$144.57
Grizzly- Structure	30'l x 19'w x 13'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	7,410.00	CF	\$0.24	\$1,803.59
Hopper	25'l x 17'h x 32'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max.	13,600.00	CF	\$0.35	\$4,727.36

		10,000 ft. haul				
Truck Dump Apron	35'l x 22'w '3'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max.	2,310.00	SF	\$2.31	\$5,343.26
Crusher-structure	29'l x 20'w x 25'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	14,500.00	CF	\$0.35	\$5,040.20
Crusher foundation	29'l x 25'w x 3'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	2,400.00	SF	\$2.31	\$5,551.44
Breaker/Feeder platform	20'l x 13'w x 9'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	2,340.00	SF	\$2.31	\$5,412.65
Stack tube conveyor	153 LF	OBSOLETE-Conveyor, elevated, including supports - 8 ft. W x 10 ft. H housing	153.00	LF	\$53.42	\$8,173.26
Retaining wall	50'l x 2'w x 18'h	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,800.00	SF	\$2.31	\$4,163.58
Surge Bin 200 Tons	23'l x 18'w x 26'h	Bldg. (MC) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	10,764.00	CF	\$0.45	\$4,885.78
Surge Bin foundation	33'l x 20'w x2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,320.00	SF	\$2.31	\$3,053.29
Operations Building	12'l x 10'w x 9'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	1,080.00	CF	\$0.24	\$262.87
operations building stairs	27'l x 3'w x 4'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	324.00	CF	\$0.35	\$112.62
Human Resources Building	60'l x 27'w x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	16,200.00	CF	\$0.24	\$3,943.08
HR bldg. covered entry	8'l x 4'w' 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	320.00	CF	\$0.24	\$77.89
HR bldg. foundation	60'l x 27'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	1,620.00	SF	\$1.93	\$3,122.71
Washbay pond pump house	10'l x 10'w x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,000.00	CF	\$0.24	\$243.40
Washbay pond pumphouse	10'l x 10'w	Demo. and on-site disposal in existing pit.	100.00	SF	\$1.93	\$192.76

foundation		10 in. thick - Max. 10,000 ft. haul				
Explosives Storage Shed	8'l x 8'w x 5'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max.	1,920.00	CF	\$0.24	\$467.33
Fencing	1100 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft.	1,100.00	LF	\$3.53	\$3,883.00
MgCl Brine Tank	1069 CF	Bldg. (SC) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,069.00	CF	\$0.31	\$327.86
Cable Repair Building	50'l x 26'w x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	13,000.00	CF	\$0.24	\$3,164.20
Cable repair blg. foundation	50'l x 26'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	1,300.00	SF	\$1.93	\$2,505.88
Feed conveyor	148 lf	OBSOLETE-Conveyor, elevated, including supports - 5 ft. W x 6 ft. H housing	148.00	LF	\$44.51	\$6,587.33
1st Transfer belt	294 lf	OBSOLETE-Conveyor, elevated, including supports - 5 ft. W x 6 ft. H housing	294.00	LF	\$44.51	\$13,085.65
2nd transfer belt	430 lf	OBSOLETE-Conveyor, elevated, including supports - 5 ft. W x 6 ft. H housing	430.00	LF	\$44.51	\$19,138.87
Surge bin 200T	23'l x 18'w x 26'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	10,764.00	CF	\$0.35	\$3,741.57
Surge bin foundation	33'l x 20'w x 2'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	1,320.00	SF	\$2.31	\$3,053.29
Tare Scale building	6'l x 5'w' 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	240.00	CF	\$0.24	\$58.42
Tare scale bldg foundation & curbs	360 SF	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	360.00	SF	\$1.93	\$693.94
Concrete pump house	19'l x 13'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	208.00	SF	\$2.31	\$481.12
Tunnel entrance building	28'l x 11'w x8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	2,464.00	CF	\$0.24	\$599.74
Tunel entrance	28' x11' x 10"th	Demo. and on-site	208.00	SF	\$1.93	\$400.94

building concrete		disposal in existing pit, 10 in. thick - Max. 10.000 ft. haul				
Tunnel entrance	29'l x 4'w	Demo and on-site	116.00	SF	\$1.93	\$223.60
concrete apron	x10"th	disposal in existing pit.	110.00	51	<b><i>(</i></b> 1.)	¢225.00
·····		10 in. thick - Max.				
		10.000 ft. haul				
Tunel entrance	15'l x 14'w x	Bldg. (SC) demo./on-	3.150.00	CF	\$0.31	\$966.11
underground	15'h	site disposal in	-,		+ + + + + + + + + + + + + + + + + + + +	+> • • • • • •
8		excavated pit - Max.				
		10,000 ft. haul				
Tunnel entrance	15'l x 14'w x	Demo. and on-site	210.00	SF	\$2.31	\$485.75
underground concrete	1'th	disposal in existing pit,				
		12 in. thick - Max.				
		10,000 ft. haul				
Tunnel entrance stairs	13'l x 8'w x 4'h	Bldg. (SN) demo./on-	416.00	CF	\$0.24	\$101.25
		site disposal in				
		excavated pit - Max.				
		10,000 ft. haul	10100	~ ~ ~	***	<b>**</b> 10 <b>*</b> 1
Tunnel entrance stairs	$13'1 \ge 8' \le 1'th$	Demo. and on-site	104.00	SF	\$2.31	\$240.56
concrete		disposal in existing pit,				
		12  in. thick - Max.				
Companyation and 11	12011 101	10,000 ft. haul	7 220 00	CE.	\$2.21	¢16.021.80
Separation wan	1201 X 10 W X	disposal in existing pit	7,520.00	эг	\$2.51	\$10,951.89
	0111	12 in thick Max				
		10000ft haul				
Separation Wall	12'l x 19'w x	Demo and on-site	456.00	SF	\$2.31	\$1 054 77
concrete	1'th	disposal in existing pit.	100100	51	φ <b>2</b> .51	\$1,001.77
		12 in. thick - Max.				
		10,000 ft. haul				
Wall ventilation	10'l x 8'w x9'h	Bldg. (SN) demo./on-	720.00	CF	\$0.24	\$175.25
building		site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
wall ventilation	14'l x 10'w x	Bldg. (SN) demo./on-	1,260.00	CF	\$0.24	\$306.68
covered area	9'h	site disposal in				
		excavated pit - Max.				
well ventilation	226 SE	Demo, and on site	226.00	SE	\$2.21	\$545.80
	250 56	disposal in existing pit	230.00	ы	\$2.31	\$343.89
concrete		12 in thick - Max				
		10000ft haul				
Repair trailer skid	40'l x 10'w x9'h	Bldg. (SN) demo./on-	3.600.00	CF	\$0.24	\$876.24
mounted		site disposal in	-,		+ • • = •	+
		excavated pit - Max.				
		10,000 ft. haul				
Substation fence	108 LF x 8' h	Fencing, chain link,	108.00	LF	\$3.53	\$381.24
		including posts and				
		fabric - 8 ft. to 10 ft.				
On and a 1, 111	201 201	high	10.002.00	CE	¢0.24	¢0.456.00
Operations building	291 x 29 W x	Bldg. (SN) demo./on-	10,092.00	CF	\$0.24	\$2,456.39
	1211	site disposal in				
		10 000 ft baul				
Operations building	29'l x 29'h x	Demo and on-site	841.00	SF	\$2.31	\$1 945 32
concrete	1'th	disposal in existing pit.	011.00		Ψ=.01	\$1,7 10.0L
		12 in. thick - Max.				
		10,000 ft. haul				

Operation building concrete apron	33'l x 4'w x 10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max.	132.00	SF	\$1.93	\$254.44
Septic Tank Vault	28'l x 10'w x 1'th	10,000 ft. haul Bldg. (SC) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	280.00	CF	\$0.31	\$85.88
Retaining Wall #1	32'l x 1'w x 2'h	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	128.00	SF	\$2.31	\$296.08
Fence Area #1	124 LF	Fencing, wood, all types	124.00	LF	\$1.81	\$224.44
Hopper	24'l x 20'w x 17'h	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	8,160.00	CF	\$0.35	\$2,836.42
Crusher building	35'l x 24'w x 51'h	Plant (3S) demo./on-site disposal in excavated pit - Max. 10,000 ft. haul	42,840.00	CF	\$0.50	\$21,539.95
Crusher building	35'l x 24'w x	Demo. and on-site	840.00	SF	\$2.31	\$1,943.00
foundation	1'th	disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul				
Conveyor-	186'l x 10'w x	OBSOLETE-Conveyor,	186.00	LF	\$26.71	\$4,968.06
underground	10'h	overland, including supports - 8 ft. W x 10 ft. H housing				
Conveyor-ug- concrete	186'l x 8'w x 1'th	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10.000 ft. haul	1,488.00	SF	\$2.31	\$3,441.89
Conveyor "suspended"	270'l x 10'w x 12'h	OBSOLETE-Conveyor, elevated, including supports - 8 ft. W x 10 ft. H housing	270.00	LF	\$53.42	\$14,423.40
Stack tube base	25'l x 25'w x15'h	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	8,750.00	SF	\$2.31	\$20,239.63
Tunnel gross scales	47'l x 1'w x 3'h	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	141.00	SF	\$2.31	\$326.15
Entrance tunnel concrete	175'l x 4'w x 10" th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10.000 ft. haul	700.00	SF	\$1.93	\$1,349.32
Operators area	80'l x 12'w x 9'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	8,640.00	CF	\$0.24	\$2,102.98
Operator's area concrete	80'l x 36'w x3'h	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	8,640.00	SF	\$2.31	\$19,985.18
Loading chute area	80'l x 25'w x39'h	Plant (3S) demo./on-site disposal in excavated pit	78,000.00	CF	\$0.50	\$39,218.40

		- Max. 10,000 ft. haul				
Loading chute area	80'l x 99'w x	Demo. and on-site	23,760.00	SF	\$2.31	\$54,959.26
concrete	3'th	disposal in existing pit,				
		12 in. thick - Max.				
		10,000 ft. haul				
Cross-section through	500'l x 24'w x	Bldg. (MC) demo./on-	288,000.00	CF	\$0.45	\$130,723.20
tunnel	24'h	site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
Loading chute area	80' x 50' x 11'h	Bldg. (SC) demo./on-	44,000.00	CF	\$0.31	\$13,494.80
top & floor		site disposal in				
		excavated pit - Max.				
	1011	10,000 ft. haul	1.00		¢ 422.00	¢ 122.00
Surface Tank #/ 15K	12'dia	Remove sludge, water,	1.00	EA	\$432.00	\$432.00
gal		and rem. product from				
		tank - 9,000 to 12,000				
Surface Tenk #7 dry	225 I bs	gai.	225.00	IP	\$2.11	\$171 75
	225 L08	tank to produce inert gas	223.00	LD	φ2.11	\$474.75
		-1.5  lbs/100  gal				
Surface Tank #7	750 gal	Dispose of tank sludge	750.00	GAL	\$6.80	\$5,100.00
sludge disposal		off-site - Average			+ • • • •	+ = , = = = = = =
Surface Tank #7 haul	15000 gal	Haul tank to certified	1.00	EA	\$1,050.00	\$1,050.00
off		salvage dump - 9,000 to				
		12,000 gal. tank				
RR ballast removal	6314.8 CY	Railroad track - Ballast	6,314.80	CY	\$5.52	\$34,857.70
RR main line	7375 LF	Railroad track - Ties and	7,375.00	LF	\$16.15	\$119,106.25
		track				
RR stoker siding	950 LF	Railroad track - Ties and	950.00	LF	\$16.15	\$15,342.50
	20015	track	200.00	IF	¢16.15	¢2,220,00
RR scale car siding	200 LF	Railroad track - Ties and	200.00	LF	\$16.15	\$3,230.00
Diagol Fuel Tepl: #6	10'dia	lrack Romovo sludgo, wotor	1.00	ΕΛ	\$422.00	\$422.00
	10 ula.	and rem product from	1.00	LA	\$432.00	\$432.00
101		tank = 9,000 to 12,000				
		gal.				
Deisel Tank #6	500 gal	Dispose of tank sludge	500.00	GAL	\$6.80	\$3,400.00
sludge disposal	2	off-site - Average				
Deisel Tank #6 dry	150 lbs	Insert dry ice (CO2) into	150.00	LB	\$2.11	\$316.50
ice		tank to produce inert gas				
		- 1.5 lbs./100 gal.				
Deisel Tank #6 haul	10000 gal	Haul tank to certified	1.00	EA	\$1,050.00	\$1,050.00
off		salvage dump - 9,000 to				
		12,000 gal. tank		~ ~	<b>*</b> • • <b>•</b> •	<b>* 1 = 2</b> 10
Deisel Tank #6	15'1 x 15'w x 4"	Demo. and on-site	225.00	SF	\$0.77	\$173.48
foundation	th	disposal in existing pit,				
		4 In. thick - Max. 10,000				
Oil Topks 24A 24B	540 gpl	Frequete and load tank	1.00	E۸	\$602.50	\$602.50
& 24C	540 gai	onto trailer non-leaking	1.00	LA	\$092.30	\$092.50
a 240		-3.000 gal to $5.000$				
		gal.				
Oil Tanks 24 A. B &	15'l x 10'w x	Demo. and on-site	150.00	SF	\$0.77	\$115.65
C foundation	4"th	disposal in existing pit.				,
		4 in. thick - Max. 10,000				
		ft. haul				
Surface Tank 11-	8000 gal	Remove sludge, water,	1.00	EA	\$324.00	\$324.00
Chemloc 8K gal		and rem. product from				
		tank - 6,000 to 8,000				

		1				
Surface Tank 11-	400	gai. Dispose of tank sludge	400.00	GAL	\$6.80	\$2,720.00
Surface Tank 11 haul	8000 gal	Haul tank to certified	1.00	EA	\$880.00	\$880.00
011		8.000 gal. tank				
Surfact Tank 11	10'l x 10'w x	Demo. and on-site	100.00	SF	\$0.77	\$77.10
foundation	4"th	disposal in existing pit, 4 in. thick - Max. 10,000 ft haul				
Concrete Sump	40'l x 40'w x 4"th	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft haul	1,600.00	SF	\$0.77	\$1,233.60
Compressor building (portable)	10'l x 10'w x8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max.	800.00	CF	\$0.24	\$194.72
Lube trailer	20'1 x 10'w x	10,000 It. nau Bldg. (SN) demo /on-	2 000 00	CE	\$0.24	\$486.80
(portable)	10'h	site disposal in excavated pit - Max.	2,000.00	CI	ψ0.2-	ψ <del>τ</del> 00.00
Water House (portable)	10'l x 10'w x 8'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	800.00	CF	\$0.24	\$194.72
Concrete fuel pad	350"1 x 50'w x10"th	Demo. and on-site disposal in existing pit, 10 in. thick - Max. 10,000 ft. haul	17,500.00	SF	\$1.93	\$33,733.00
Deisel Tank #10 200K gal	200,000 gal	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	10.00	EA	\$432.00	\$4,320.00
Deisel Tank #10 dispose of sludge	10000 gal	Dispose of tank sludge off-site - Average	10,000.00	GAL	\$6.80	\$68,000.00
Deisel Tank #10 dry ice	3000 LB	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	3,000.00	LB	\$2.11	\$6,330.00
Deisel Tank #10 haul off	200,000 gal	Haul tank to certified salvage dump - 9,000 to 12,000 gal_tank	5.00	EA	\$1,050.00	\$5,250.00
Oil Overflow Tank #22 1K	1000 gal	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Oil Tank #22 dispose of sluge	50 gal	Dispose of tank sludge off-site - Average	50.00	GAL	\$6.80	\$340.00
Oil Tank #22 dry ice	15 lbs	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	15.00	LB	\$2.11	\$31.65
Oil tank #22 haul off	100 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
boxcar #1, #2 & #3	19800 cf	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	19,800.00	CF	\$0.24	\$4,819.32
first aid trailer	10'l x8'w x 10'h	Bldg. (SN) demo./on-	800.00	CF	\$0.24	\$194.72

		site disposal in excavated pit - Max				
		10,000 ft. haul				
Fencing	240 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft.	240.00	LF	\$3.53	\$847.20
Powerlines	91838 LF	OBSOLETE - Powerline or utility line, line disposal only	91,838.00	LF	\$0.09	\$8,265.42
Misc site cleanup	5556 CY	Load/haul/dump demolished materials/debris into pit - Max. 5,000 ft. haul	5,556.00	CY	\$1.51	\$8,395.12
Misc culverts "unmapped"	1000 LF	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	1,000.00	LF	\$24.52	\$24,522.60
Bone yard clean up	5556 CY	Load/haul/dump demolished materials/debris into pit - Max. 5,000 ft. haul	5,556.00	CY	\$1.51	\$8,395.12
Disposal of petroleum contaminated soil	1000 CY	Dispose of contaminated soil at approved landfill - Average	1,000.00	CY	\$300.00	\$300,000.00
Remove Asphalt facilities to Pit	2370.6 CY	Pavement, bituminous, demolition only - 4 in. to 6 in. thick	2,370.60	SY	\$8.66	\$20,529.40
Remove Asphalt Main haul road	11,728.4 SY	Pavement, bituminous, demolition only - 4 in. to 6 in. thick	11,728.40	SY	\$8.66	\$101,567.94
Deisel Tank #8 & #9 35.8Kgal	2x 17,900 gal	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	3.00	EA	\$432.00	\$1,296.00
DEisel Tanks 8 &9 Dispose of sludge	1790 gal	Dispose of tank sludge off-site - Average	1,790.00	GAL	\$6.80	\$12,172.00
Deisel Tanks 8 &9 dry ice	537 lbs	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	537.00	LB	\$2.11	\$1,133.07
Deisel Tank 8&9 haul off	2 x 17,900 gal	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	3.00	EA	\$1,050.00	\$3,150.00
Substation fencing	250 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	250.00	LF	\$3.53	\$882.50
First aid building	21'l x 21'w x10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,410.00	CF	\$0.24	\$1,073.39
Transformer pad concrete	17'l x 17'w x 0.4"th	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	289.00	SF	\$0.77	\$222.82
Compressor building	21'l x 21'w x 10'h	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	4,410.00	CF	\$0.24	\$1,073.39
South Taylor Pit Lot	3000 CF	Load/haul/dump	3,000.00	CY	\$1.06	\$3,186.00

Facilities		demolished materials/debris into pit - Max, 1.000 ft, haul				
Water Horse	500 CF	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	500.00	CF	\$0.24	\$121.70
South Taylor Water Tank	200K gal	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	26,738.00	CF	\$0.35	\$9,294.13
South Taylor Fuel Island Facilities	5000 CF	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	5,000.00	CF	\$0.24	\$1,217.00
South Taylor fuel Island foundation	500 SF	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	500.00	SF	\$2.31	\$1,156.55
Demolish GPS storage building	100 CF	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	1,000.00	CF	\$0.24	\$243.40
Remove powerline extension	4750 LF	OBSOLETE - Powerline or utility line, line disposal only	4,750.00	LF	\$0.09	\$427.50
Remove 2 substations	1536 CF	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10.000 ft. haul	1,536.00	CF	\$0.24	\$373.86
Demo Barrel Storage Building	28'x32'x16'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	14,336.00	CF	\$0.24	\$3,489.38
Demo Building Foundation	28'x32'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	896.00	SF	\$1.16	\$1,036.22
Demo Administtration Room Addition	14'x14'x16'	Bldg. (SN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	9,408.00	CF	\$0.24	\$2,289.91
Demo Salt Storage Building	30' x 39' x 15'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	17,550.00	CF	\$0.24	\$4,271.67
- Demo Footers	@8' Spacing	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 50 ft. push	34.00	LF	\$4.53	\$154.05
Demo 2 East Pit Road Culverts	10" @ 50'	Pipe, corrugated metal (CMP) - 10 in. diameter pipe	100.00	LF	\$5.19	\$518.89
Demo Generator (Labor/Equipement Only)	124 kW	USER PROVIDED ITEM	1.00	EA	\$11,975.00	\$11,975.00
- Remove 250 Gal. Propane Tank	250 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal_tank	1.00	EA	\$760.00	\$760.00

Demo Worksheet Cont'd

MgCl Tank2674 CFBldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,0002,674.00CF\$0.24\$650.85
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				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	600.00	(unadjusted):	\$3,081,101.81	location):	\$2,813,045.95
# EQUIPMENT MOBILIZATION/DEMOBILIZATION

		JIIIZC/DCIIIODIIIZC	Equipment io	i initiat i	ceramation		
Colowyo Coal M	line	Permit	Action: MT9		]	Permit/Job#: <u>C1</u>	1981019
<u>'ROJECT IDEN'</u>	<u> FIFICATI(</u>	<u>ON</u>					
Task #: 128		State: Co	olorado		Abbre	eviation: None	
Date: 3/25/2	2025	County: Mo	offat		Fi	lename: 128	
User: <u>HR1</u>							
Agency or	organization	name: DRMS					
OUIPMENT TE	ANSPOR'	F RIG COST					
					01 : 0 1		
					Shift ba	sis: <u>I per da</u>	<u>y</u>
							ita
Truck 7	Fractor Descr	iption: GENE	RIC ON-HIGH	WAY TRU	JCK TRACTO	DR, 6X4, DIESEL	L POWERED,
T 1 /	T'I D			$\frac{400 \text{ HP}}{\text{NG COC}}$	(2ND HALF,	2006)	
Iruck	I railer Descr	iption: Gl	ENERIC FOLD	ING GOU	OSENECK, DF	ND 100T)	IPMENI
				KAILEN	(251, 501, Al	ND 1001)	
ost Breakdown:							
Available Rig Car	pacities	0-25 Tons	26-50 Tons	51-	+ Tons		
Ownership C	Cost/Hour:	\$10.44	\$22.18	\$2	23.94		
Operating C	Cost/Hour:	\$26.48	\$54.55	\$	55.65		
Operator C	Cost/Hour:	\$22.52	\$22.52	\$2	22.52		
Helper C	Cost/Hour:	\$0.00	\$23.53	\$2	23.53		
Total Unit C	ost/Hour:	\$59.44	\$122.78	\$1	25.64		
	<b>I</b>						
ON ROADABL	E EQUIPN	IENT:					
Maahina	Weight/	Oumonshin	Houl Dig	Floot	Houl Trin	Return Trin	DOT Permit
Description	Weight/	Cost/br/ unit	Haul Kig	Fleet	Haul Inp	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)	COSt/III/ unit	t	Size	floot		
LETOUDNEAU	(10103)	\$635.20	l \$125.64		Heet		
LETOUKNEAU				2	\$1 521 86	\$251.28	\$500.00
L2350		φ055.27	\$123.04	2	\$1,521.86	\$251.28	\$500.00
L2350 KOM45.00U 830E	244.00	\$209.47	\$125.64	2	\$1,521.86 \$5,361.76	\$251.28 \$2,010.24	\$500.00
L2350 KOM45.00U 830E Cat D11T - 11U	244.00 134.12	\$209.47 \$496.62	\$125.64 \$125.64	2 16 6	\$1,521.86 \$5,361.76 \$3,733.56	\$251.28 \$2,010.24 \$753.84	\$500.00 \$4,000.00 \$1,500.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M	244.00 134.12 28.73	\$209.47 \$496.62 \$179.39	\$125.64 \$125.64 \$122.78	2 16 6 2	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34	\$251.28 \$2,010.24 \$753.84 \$245.56	\$500.00 \$4,000.00 \$1,500.00 \$500.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14.000 Gal.	244.00 134.12 28.73 58.50	\$209.47 \$496.62 \$179.39 \$130.32	\$125.64 \$125.64 \$122.78 \$125.64	2 16 6 2 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64	\$500.00 \$4,000.00 \$1,500.00 \$500.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'-	244.00 134.12 28.73 58.50 54.31	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31	\$125.64 \$125.64 \$125.64 \$122.78 \$125.64 \$125.64	2 16 6 2 1 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64	\$500.00 \$4,000.00 \$1,500.00 \$500.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick	244.00 134.12 28.73 58.50 54.31	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31	\$125.64 \$125.64 \$125.64 \$122.78 \$125.64 \$125.64	2 <u>16</u> <u>6</u> 2 1 1 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.00	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$125.64	\$500.00 \$4,000.00 \$1,500.00 \$250.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick ATLAS COPCO POC D7 11 4.0 in	244.00 134.12 28.73 58.50 54.31 0.00	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31 \$191.64	\$125.64 \$125.64 \$122.78 \$125.64 \$125.64 \$125.64 \$59.44	2 16 6 2 1 1 1 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.08	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$59.44	\$500.00 \$4,000.00 \$1,500.00 \$500.00 \$250.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick ATLAS COPCO ROC D7-11,4.0 in.	244.00 134.12 28.73 58.50 54.31 0.00	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31 \$191.64 \$358.33	\$125.64 \$125.64 \$122.78 \$125.64 \$125.64 \$125.64 \$59.44 \$59.44	2 16 6 2 1 1 1 1 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.08 \$417.77	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$59.44 \$59.44	\$500.00 \$4,000.00 \$1,500.00 \$500.00 \$250.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick ATLAS COPCO ROC D7-11,4.0 in. Atlas Capco DMI /SP - 9-7/8"	244.00           134.12           28.73           58.50           54.31           0.00           0.00	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31 \$191.64 \$358.33	\$125.64 \$125.64 \$122.78 \$125.64 \$125.64 \$125.64 \$59.44 \$59.44	2 <u>16</u> <u>6</u> <u>2</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.08 \$417.77	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$59.44 \$59.44	\$500.00 \$4,000.00 \$1,500.00 \$500.00 \$250.00 \$250.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick ATLAS COPCO ROC D7-11,4.0 in. Atlas Capco DML/SP - 9-7/8" Water Tanker.	244.00 134.12 28.73 58.50 54.31 0.00 0.00 15.00	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31 \$191.64 \$358.33 \$51.70	\$125.64 \$125.64 \$125.64 \$122.78 \$125.64 \$125.64 \$125.64 \$59.44 \$59.44 \$59.44	2 <u>16</u> <u>6</u> 2 1 1 1 1 1 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.08 \$417.77 \$111.14	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$59.44 \$59.44 \$59.44	\$500.00 \$4,000.00 \$1,500.00 \$500.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick ATLAS COPCO ROC D7-11,4.0 in. Atlas Capco DML/SP - 9-7/8" Water Tanker, 5,000 Gal.	244.00           134.12           28.73           58.50           54.31           0.00           15.00	\$003.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31 \$191.64 \$358.33 \$51.70	\$125.64 \$125.64 \$122.78 \$125.64 \$125.64 \$125.64 \$59.44 \$59.44 \$59.44	2 <u>16</u> <u>6</u> 2 1 1 1 1 1 1	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.08 \$417.77 \$111.14	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$59.44 \$59.44 \$59.44	\$500.00 \$4,000.00 \$1,500.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00
L2350 KOM45.00U 830E Cat D11T - 11U CAT 16M Water Tanker, 14,000 Gal. Cat 345D L 12'- 10" Stick ATLAS COPCO ROC D7-11,4.0 in. Atlas Capco DML/SP - 9-7/8" Water Tanker, 5,000 Gal. Grove GMK3055,	244.00 134.12 28.73 58.50 54.31 0.00 0.00 15.00 39.30	\$0033.27 \$209.47 \$496.62 \$179.39 \$130.32 \$92.31 \$191.64 \$358.33 \$51.70 \$167.54	\$125.64 \$125.64 \$125.64 \$122.78 \$125.64 \$125.64 \$59.44 \$59.44 \$59.44 \$59.44 \$59.44	2 16 6 2 1 1 1 1 1 6	\$1,521.86 \$5,361.76 \$3,733.56 \$604.34 \$255.96 \$217.95 \$251.08 \$417.77 \$111.14 \$1,741.92	\$251.28 \$2,010.24 \$753.84 \$245.56 \$125.64 \$125.64 \$59.44 \$59.44 \$59.44 \$59.44 \$736.68	\$500.00 \$4,000.00 \$1,500.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00 \$250.00

Subtotals:

4

\$4,427.20

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/	Fleet S	Size	Haul Trip	Return Trip
	unit			Cost/hr/ fleet	Cost/hr/ fleet
Fuel Tanker, 6x4, 210 HP	\$53.90	2		\$107.80	\$107.80
Lube Truck, 6x4, 250 HP	\$53.90	2		\$107.80	\$107.80
ANFO Bulk Delivery Truck	\$272.76	1		\$272.76	\$272.76
Cap Delivery Truck	\$47.18	1		\$47.18	\$47.18
Flatbed Truck, 6x4, 45K GVW	\$81.77	2		\$163.54	\$163.54
Light Duty Pickup, 4x4, 1 T.	\$24.60	1		\$24.60	\$24.60
Crew					
			Subtotals:	\$723.68	\$723.68

# **EQUIPMENT HAUL DISTANCE and Time**

	GRAND JUNCTION	Nearest Major City or Town within project area region:
miles	130.00	Total one-way travel distance:
mph	45.00	Average Travel Speed:
	\$1,491,088.65	Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:
	\$4,181.26	Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	2.89	2.89
Return Time (Hours):	2.89	2.89
Loading Time (Hours):	24.00	NA
Unloading Time (Hours):	24.00	NA
Subtotals:	53.78	5.78

### JOB TIME AND COST

Total job time: **107.56** Hours

Total job cost: \$1,495,270

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	e Equipment fo	or Pond ar	d Ditch Rem	oval	
e: <u>Colowyo Coal M</u>	Mine	Permit	Action: <u>MT9</u>			Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 129		State: Co	olorado		Abbro	eviation: None	2
Date: 3/25/	/2025	County: M	offat		F	ilename: 129	
User: HR1							
Agency or	organization	n name: DRMS					
EOUIPMENT TI	RANSPOR	T RIG COST					
					Shift ba	usis' 1 per di	av
					Cost Data Sou	rce: CRG D	ata
· · · · 1 · /	Taxatan Da	dentions of the					
Iruck	ractor Desc	ription: GENE	KIC UN-HIGH		UCK IKACI	JK, 0A4, DIESE	l poweked,
Tanala	Trailar Daga	nintion.			(2ND HALF,	$\frac{2000}{00000000000000000000000000000000$	UDMENT
Iruck	I raller Desc	ription: G	ENERIC FOLL	JING GOU	JSENECK, DI	KOP DECK EQU	IPMENI
				IKAILEK	(231, 301, Al	ND 1001)	
Cost Breakdown:							
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51-	+ Tons		
Ownership (	Cost/Hour:	\$10.44	\$22.18	\$	23.94		
Operating (	Cost/Hour:	\$26.48	\$54.55	\$	55.65		
Operator (	Cost/Hour:	\$22.52	\$22.52	\$	22.52		
Helper (	Cost/Hour:	\$0.00	\$23.53	\$	23.53		
Total Unit (	Cost/Hour:	\$59.44	\$122.78	\$1	25.64		
NON ROADABL	<u>E EQUIPN.</u>	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
r	(TONS)		t		fleet		
Cat D9T - 9SU	60.01	\$253.16	\$125.64	2	\$757.60	\$251.28	\$500.00
Cat 336D L 10'-6"	32.23	\$75.78	\$122.78	2	\$397.12	\$245.56	\$500.00
Stick							
CAT 963D	22.29	\$83.68	\$59.44	2	\$286.24	\$118.88	\$500.00
Drill/Broadcast Seeder with	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Tractor							

Subtotals: **\$1,541.42 \$675.16 \$1,750.00** 

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$81.77	1	\$81.77	\$81.77
Fuel Tanker, 6x4, 210 HP	\$53.90	1	\$53.90	\$53.90
Lube Truck, 6x4, 250 HP	\$53.90	1	\$53.90	\$53.90
		Subtotals:	\$189.57	\$189.57

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	HAYDEN	
Total one-way travel distance:	40.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$10,523.43	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$337.01	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.89	0.89
Return Time (Hours):	0.89	0.89
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.78	1.78

### JOB TIME AND COST

Total job time: **5.56** Hours

Total job cost: \$10,860

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	e Equipment fo	r Yearly	Site Maintena	nce	
: Colowyo Coal	Mine	Permit	Action: <u>MT9</u>			Permit/Job#: <u>C</u>	981019
PROJECT IDEN	NTIFICATI	ON					
Task #: 130		State: Co	olorado		Abbre	eviation: None	
Date:3/25/2025County:MoffatFilename:130User:HR1							
Agency o	or organization	n name: DRMS					
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: <u>1 per da</u>	<u>y</u>
					Cost Data Sou	rce: <u>CRG Da</u>	ta
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR	UCK TRACT(	DR, 6X4, DIESEL	POWERED,
Truel	Trailor Door	rintion:	ENEDIC EOLD	400 HE	$\frac{2}{2}$ (2ND HALF,	$\frac{2006}{2000}$	IDMENIT
TTUCK	Trailer Desc	anpuoli. G	ENERIC FOLD	TRAILER	(25T 50T A)	ND 100T)	
					(201,001,11	(2 1001)	
Cost Breakdown:							
Available Rig Ca	apacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownership	Cost/Hour:	\$10.44	\$22.18	\$	23.94		
Operating	Cost/Hour:	\$26.48	\$54.55	\$	55.65		
Operator	Cost/Hour:	\$22.52	\$22.52	\$	22.52		
Helper	Cost/Hour:	\$0.00	\$23.53	\$	23.53		
Total Unit	Cost/Hour:	\$59.44	\$122.78	\$	125.64		
NON ROADABI	LE EQUIPA	<u>MENT:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
1	(TONS)		t		fleet		
Cat D6T LGP	26.87	\$99.72	\$122.78	5	\$1,112.50	\$613.90	\$1,250.00
Cat 324D L 9'-8" Stick	27.33	\$73.77	\$122.78	5	\$982.75	\$613.90	\$1,250.00
Cat 730	25.19	\$108.67	\$59.44	10	\$1,681.10	\$594.40	\$2,500.00
CAT 14M	23.57	\$129.81	\$59.44	5	\$946.25	\$297.20	\$1,250.00
Water Tanker, 5,000 Gal.	15.00	\$51.70	\$59.44	5	\$555.70	\$297.20	\$1,250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	5	\$502.30	\$297.20	\$1,250.00

Subtotals: \$5,780.60 \$2,713.80

# ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$81.77	5	\$408.85	\$408.85
Fuel Tanker, 6x4, 210 HP	\$53.90	5	\$269.50	\$269.50
Lube Truck, 6x4, 250 HP	\$53.90	5	\$269.50	\$269.50

Subtotals: **\$947.85** 

\$947.85

\$8,750.00

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	25.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	¢04 744 00	
<b>'*</b> two round trips with haul rig:	\$84,744.22	
Total Roadable Mob/Demob Cost **	\$1.053.17	
** one round trip, no haul rig: _	\$1,000117	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.56	0.56
Return Time (Hours):	0.56	0.56
Loading Time (Hours):	2.50	NA
Unloading Time (Hours):	2.50	NA
Subtotals:	6.11	1.11

### JOB TIME AND COST

Total job time: 12.22 Hours

Total job cost: \$85,797

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	Equipment fo	r Two Po	nd Cleanings		
e: <u>Colowyo Coal</u>	Permit	Permit Action: MT9			Permit/Job#: C1981019		
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #:131Date: $3/2$ User:HR	l 5/2025	State: Co County: Mo	olorado offat		Abbre F	eviation: <u>None</u> ilename: <u>131</u>	
Agency	or organization	n name: DRMS					
EQUIPMENT 7	<b>FRANSPOR</b>	<u>T RIG COST</u>					
					Shift ba Cost Data Sou	usis: <u>1 per da</u> rce: <u>CRG Da</u>	ta
Trucl	k Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR 400 HF	UCK TRACTO P (2ND HALF.	OR, 6X4, DIESEI 2006)	L POWERED,
Truc	k Trailer Desc	ription: G	ENERIC FOLD	ING GO	OSENECK, DI	ROP DECK EQU	IPMENT
				<u>FRAILER</u>	. (25T, 50T, Al	ND 100T)	
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownership	Cost/Hour:	\$10.44	\$22.18	\$	23.94		
Operating	g Cost/Hour:	\$26.48	\$54.55	\$	55.65		
Operator	r Cost/Hour:	\$22.52	\$22.52	\$	22.52		
Helper	r Cost/Hour:	\$0.00	\$23.53	\$	23.53		
Total Uni	t Cost/Hour:	\$59.44	\$122.78	\$.	125.64		
NON ROADAB	LE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
r	(TONS)		t		fleet		
Cat 336D L 10'-6' Stick	32.23	\$75.78	\$122.78	2	\$397.12	\$245.56	\$500.00
Centrifugal pump 200M, 10 in.	- 1.95	\$28.78	\$59.44	1	\$88.22	\$59.44	\$250.00

Subtotals: \$485.34 \$305.00 \$750.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 10-12 cy, 6x4	\$108.12	6	\$648.72	\$648.72
Flatbed Truck, 6x4, 45K GVW	\$81.77	2	\$163.54	\$163.54
		Subtotals:	\$812.26	\$812.26

Subtotals: \$812.26 \$812.26

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	CRAIG	
Total one-way travel distance:	50.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$5,197.67	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$1,805.02	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.11	1.11
Return Time (Hours):	1.11	1.11
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	4.22	2.22

### JOB TIME AND COST

Total job time: **8.44** Hours

Total job cost: **\$7,003** 

### SITE MAINTENANCE

- -	Task description:	Site Mainter	nance During T	en Year Liability Po	eriod	
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/.	lob#: <u>C1981019</u>
PROJE	CT IDENTIFICATIO	<u>N</u>				
Task #:	132	State:	Colorado		Abbreviation:	None
Date:	3/25/2025	County:	Moffat		Filename:	132
User:	HKI					
	Agency or organiza	tion name: <u>I</u>	ORMS			

# UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Dozer for Rill and	160.00	Cat D6T LGP	800.00	EA	\$209.53	\$167,624.00
Gully Maintenance						
Excavator for Rill and	160.00	Cat 324D L 9'-8" Stick	800.00	EA	\$151.12	\$120,896.00
Gully Maintenance						
Haul Trucks for Rill	160.00	Cat 730	1,600.00	EA	\$200.17	\$320,272.00
and Gully						
Maintenance						
Grader for Road	60.00	CAT 14M	300.00	EA	\$246.70	\$74,010.00
Maintenance						
Water Truck for Road	60.00	Water Tanker, 5,000	300.00	EA	\$101.92	\$30,576.00
Maintenance		Gal.				
Revegetation	160.00	Drill/Broadcast Seeder	800.00	EA	\$79.16	\$63,328.00
Equipment		with Tractor				

Job Hours: 800.00

Total Cost: \$776,706.00

Task description:	Pumj	o 10 Sediment Pond	s Prior to Two Clea	anings		
: Colowyo Coal Mine		Permit Actio	on: <u>MT9</u>		Permit/Job#:	C1981019
PROJECT IDENTIF	ICATIO	<u>DN</u>				
Task #:133		State: <u>Colora</u>	ado	A	Abbreviation:	None
Date: 3/25/2025		County: Moffa	t		Filename:	133
User: <u>nki</u>						
Agency or orga	nization	name: DRMS				
HOURLY EQUIPMI	<u>ENT CO</u>	<u>981</u>			1	
Make and Model:	Descri	ption fugal nump - 200M	10 in		Quantity 2	
Attachment 1:		lugar pump 200101,	10 m.		0	
Attachment 2:	Discha	rge hose - 2 in. D., 2	25 ft.		1	
Labor Unit 1:	Pump	operator			3	
Horsepower:	70					
Shift Basis: <u>1</u> Weight:	per day					
(U	S Tons)					
Cost Breakdown:						
			Utilization %			
Ownership Cost/	Hour:	<u>\$57.60</u> \$59.11	NA 100			
Operating Cost/	Hour:	\$66.21	NA			
Total Unit Cost/	Hour:	\$182.92				
Total Fleet Cost	/Hour:	\$182.92				
PUMPING OUANTI	TIES	ψ10 <i>2.72</i>				
Initial Pond Vol	ume.	233.00		Com	version factor.	325850 5800
Final Pond Vol	ume:	75,923,185.14	gallons	Con	version factor.	323830.3800
Total Pond Inflow Su	rface		0	Unit	inflow rate in	
Total Dand Inflow Vo	Area:	50	Sq. ft.		gph/sq. ft.:	0.0000
per l	Hour:	0.00	gallons			
Source	of estima	ted volume: Divis	tion Estimate			
PUMPING TIME	or estima					
			200,000	<b>1</b>	/	
ма Е	stimated	Suction Head:	10	gpn/ feet	pump	
Esti	mated Di	scharge Head:	10	feet		
		Total Head:	20	feet		
	CPB P	Imp Capacity:	201,000	gph/	/pump	
		Site Altitude:	7,600	feet		
۵ dina	sted Pum	ning Canacity:	402 000	anh		
Initial Una	djusted P	umping Time:	188.86	gpn hou	rs	
Inflow	during In	itial Pumping:	0	galle	ons	
Net Una	djusted P	umping Time:	188.86	Hou	irs	
Altit	ude Adju	stment Factor:	0.9100	(3%	rule)	
P Total A	ump Effi diusted P	ciency Factor:	0.9167	(55 : hour	m1n./hr.) rs	
	CT		101.00	11001		
JUD HIVLE AND CU	51		Total	job time:	157.55	Hours
Unit cost: \$0.00	00380	/Gallon	Total	job cost:	\$28,819	

# TRUCK/LOADER TEAM WORK

Site: <u>Colowyo Coal M</u>	ine	Permit	Actio	on: MT9		Permit/Job#: C1	1981019
PROJECT IDEN	TIFICATION	_					
Task #: $134$	025	State: <u>Country</u>	Colora Aoffo	ado	Ab	breviation: No	ne
User: HR1	.023	County: <u>N</u>	/1011a	l		Filename: 154	ł
Agency or	organization nar	ne: DRM	S				
		<u></u>	~		G1 (6.1		
<u>HOURLY EQUI</u>	PMENT COS	<u>l</u>			Shift bas	sis: <u>I per day</u>	
т	ruck Loader Tea	m -Truck	Ger	Equipment Descri	ption 1		
1		-Loader:	Cat	336D L 10'-6" S	tick		
Supp	ort Equipment -L	Load Area:	NA				
Pood M	-Di	ump Area:	NA NA				
Koau Mi	-Wa	iter Truck:	NA				
<u>Cost Breakdown</u> :	Truck/Los	ader Team		Support I	Equipment	Maintenan	ce Equipment
	Truck	Excavator		Load Area	Dump Area	Motor Grader	water fluck
%Utilization-machine:	100		100	NA	NA	NA	NA
Ownership cost/hour:	\$22.44	\$75	5.78	NA	NA	NA	NA
Operating cost/hour:	\$60.44	\$52	2.99	NA	NA	NA	NA
% Utilization-riper:	NA NA	¢(	$\frac{0}{0}$	NA	NA	NA	NA
Ripper own. cost/nour:	NA NA	\$0	0.00	INA NA	INA NA	INA NA	
Operator cost/hour:	\$0.00	\$33 \$33	2.00	NA NA	NA NA	NA NA	
Unit Subtotals:	\$82.88	\$162	9.67 9.67	NA	NA	NA	NA NA
Number of Units:	3	φ102	1	0	0	0	117
Group Subtotals:	Work:	\$411.28	1	Support:	\$0.00	Maint:	\$0.00
Total work team cos	t/hour: \$/11.25	2		I I I			
Total work team cos	50/11001. <u><b>9</b></u> <b>−11.</b> <u>∠</u> 0	<u>,                                    </u>					
MATERIAL QU	ANTITIES						
Initial volume:	28.000		CCY	Swell	factor: 1.000		
Loose volume:	28,00	0	LCY				
So	arce of estimated	volume:	Divis	sion of Reclamation	on, Mining & Saf	ety	
Source	of estimated swe	ell factor:	Cat H	Handbook	· · · · · ·	2	
	Material Purch	ase Cost:	\$0.00	)			
	10	Dial Cost:	20.00	)			
HOURLY PRO	<b>DUCTION</b>						
Truck Capacity:							
Truck Payload (weig	ght) Basis:						
Material w	veight: $2,700$	Wat among	tad	Pounds/LCY			
Descri Potod Po	vload: 35.400	wet excava	iea	Pounds			
K aleit F a	V IV // IV I						

Truck Bed (volume) Basis:						
Struck Volume:	10.00	LCY				
Heaped Volume:	12.00	LCY				
Average Volume:	11.00	LCY				
Adjusted Volume:	12.00	LCY				
Fina	al Truck Volume	Based on Number of Loa	ler Passes:	10.92	LCY	
Loading Tool Capacity						
			Buck	et Size Class: S	mall	_
Rated Capacity:	1.560	LCY (heaped)				-
Bucket Fill Factor:	0.875	Loose material - 1/2'	to 3/4" (85	- 90%) 0.875		-
Adjusted Capacity:	1.365	LCY				
Job Condition Correction	<u>s:</u>	Site Al	itude (ft.): <u>7</u>	<u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	0.970	1.000	(CAT HB	)		
Job Efficiency:	0.830	0.830	(CAT HB	)		
Net Correction:	0 805	0.830				
	0.005	0.050				
Loading Tool Cycle Time	Number	r of Loading Tool Passes I	equired to F	Fill Truck:	<u>    8          </u>	asses
Excavators and Front Show	vels:					
Machine Cycle Time	vs. Job Conditio	n Rating: SEVERE				
Selected Value	within this Basi	c Rating: SEVERE				
Track Loaders	– Material Descr	iption:				
Cycle Time Elements (min.	):	·				
Load: NA	Ň	faneuver: NA		Dump: 0.10	)	
	IV.			Dump. 0.100		
Wheel and Track Loaders	- Unadjusted Ba	asic Loader Cycle Time (lo	ad, dump, m	naneuver):	NA minu	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	NA			NA	(Cat HB)	_
Stockpile:	NA			NA	(Cat HB)	_
Truck Ownership:	NA			NA	(Cat HB)	_
Operation:	NA			NA	(Cat HB)	_
Dump Target:	NA	Net Coult The All		NA	(Cat HB)	_
		Net Cycle Time Ad	justment:	NA	minutes	
		Aujusted Loader Cy	ar Truck	0.445	minutes	
		Net Load Time p	er Truck:	3.215	minutes	
Truck Cycle Time:						
Truck Exchange Tim	ne: 0.50	Minutes	Adjusted	for site altitude:	0.515	Minute
Truck Load Tin	ne: 3.215	Minutes	Adjusted	for site altitude:	3.215	Minute
ck Maneuver and Dump Tin	ne: 0.90	Minutes	Adjusted	for site altitude:	0.928	Minute
	) <b>T</b>			_		
<u>Iruck Travel (Haul &amp; Retu</u>	<u>rn) 11me:</u>	Road Condition: Loose	snow 4.0			

Haul Ro	ute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
1	1848	0.00	5.00	4 50	9.50	1068	(min) 17 317	_
1	1010		5.00	1.50	1.50	15 215	17.517	
Return F	Route:				Haul Time:	17.317	minute	S
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1848	0.00	-5.00	4.50	-0.50	2938	6.485	
					Return Time:	6.485	minu	tes
				Total Tru	ck Cycle Time:	28.460	minu	tes
Loading To Proo	ool unit duction	175.63	LCY/Hour		Adjusted for j	ob efficiency:	145.78	LCY/Hour
Truck Onit Floo	uction	23.02	LCY/Hour		Adjusted for j	ob efficiency:	19.11	LCY/Hour
Optimal No. of 7	Frucks:	8	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team production	on: 57.	32 LC	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: <u>57.</u>	$\frac{32}{22}$ LC	Y/Hour
			Adjusted multip	le truck/loade	er team production	on: 57.	<u>32</u> LC	/Y/Hour
JOB T	IME AN	ND COST						
Flee	t size:	1	Team(s)	r	Fotal job time:	488.4	15 I	Hours
Uni	t cost:	\$7.175	/LCY		Total job cost:	\$200,8	392	

# **REVEGETATION WORK**

Task descrij	otion:	Reseed Geotechnical Hole A	ccess Corridoi	°S	
Site: Colowyo Coal Mine		Permit Action: MT9		Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	ATION			
Task #:	136	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	136
User:	HR1				
Ag	ency or organi	zation name: DRMS			

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fautilizar Application Cost/Acro	<b>*</b> • ••
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$6.34
Bluebunch Wheatgrass - Secar	4.00	12.86	\$42.05
Bitterbrush, Antelope	6.00	1.85	\$339.08
Mountain Brome - Bromar	2.00	3.21	\$12.03
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Rocky Mountain Fescue	2.00	32.14	\$21.57
Slender Wheatgrass - Pryor	1.50	5.48	\$9.27
Milk Vetch, Cicer - Lutana	0.60	2.00	\$5.87
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37

Western Wheatgrass - Arriba	3.00	7.58	\$27.10
Rabbitbrush, Rubber	0.60	8.94	\$50.04
Needlegrass, Green - Lodorm	0.40	1.66	\$3.46
Sagebrush, Louisiana or Prairie	1.00	100.79	\$184.91
Sagebrush, Mountain or Big	4.00	211.20	\$330.80
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Silver	1.50	29.13	\$102.19
Saltbush, Four Wing	3.20	4.41	\$63.59
Snowberry, Mountain	1.50	2.58	\$88.59
Sumac, Skunkbrush	1.00	0.47	\$45.13
Penstemon, Palmer	0.20	4.42	\$15.59
Penstemon, Rocky Mountain	1.00	15.67	\$61.41
Yarrow, Western	0.40	24.32	\$19.30
Totals Seed Mix	38.30	493.19	\$1,481.54

#### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acr	re \$272.56

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

2 esemption		Cost /Acre
		\$
,	Total Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ck Cost / Acre	\$0.00

### JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,754.10
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,754.10
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$1,754.10** 

Reseeding Job Cost:	\$350.82
Total Job Cost:	\$2,105
Job Hours:	2.00

# BULLDOZER RIPPING WORK

	Task description	: Rip	Cut Line from Brush Fir	e (South Taylo	or)		
Site	: Colowyo Coa	l Mine	Permit Action:	MT9	Permi	t/Job#: <u>C19</u>	81019
	PROJECT ID	ENTIFICATI	ON				
	Task #: 13	8	State: Colorado		Abbrevia	tion: None	
	Date: 3/1	3/2025	County: Moffat		Filen	ame: 138	
	User: <u>HF</u>	R1					
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT C	<u>OST</u>				
	Basic	Machine: Ca	t D11T - 11U		Horsepower:	850	
	Ripper Att	tachment: 3-S	Shank Ripper		Shift Basis:	1 per day	
					Data Source:	(CRG)	
	Cost Breakdown	<u>.</u>					
			· /TT	¢ 40 c c 2	Utilization %		
		Ownership C	ost/Hour:	\$496.62	<u>NA</u>		
	Rinn	er Ownershin C	ost/Hour.	\$33.65	<u> </u>		
	Rip	per Operating C	ost/Hour:	\$14.83	100		
		Operator C	ost/Hour:	\$38.59	NA		
		Total Unit C	ost/Hour:	\$908.59			
		Total Fleet C	ost/Hour: \$908	3.59			
	MATERIAL (	DIANTITIES	Sala	atad actimating	mathady Area		
		1	Sele	cted estimating	method: Area		
	Alternate Method	us:					
Seismic:	NA		Bank Volume:	NA	BCY	NA	DOV - COV
Area:	1.40	acres	Kip Depth (It):	1.00		9	BCY of CCY
		Source of esti	mated quantity: <u>Table 7</u>	Exh. 13B-T-2	20		
	HOURLY PR	<b>ODUCTION</b>					
	Seismic:						
			Seismic Velocity:	NA	feet/second		
	Area:						
		Averag	ge Ripping Depth:	3.51	feet/pass		
		Averag	ge Ripping Width:	9.83	feet/pass		
		Average	e Ripping Length:	300.00	feet/pass		
		Aver	age Dozer Speed:	88.00	feet/minute	G	
		Produc	tion per unit area:	1.110	ninutes/past acres/hour	3	
	Job Condition Co	orrection Factor	s				
	Job Condition Co	adjusted Hourly	Unit Production	1 1 10	A area /br		
	UI	ladjusted Hourry		1.110			
			Site Altitude:	7,500	feet		
			Altitude Adj:	1.00	(CAT HB) (1 shift/day)		
			Net Correction:	0.83	(1 sint/day) multiplier		
		A	Hender Heit Des destions	0.02			
		Adjusted	Hourly Fleet Production:	0.92	Acres/hr		
	JOB TIME AN	ND COST	-				
	Fleet size:	1	Grader(s)	Total iob time	e: 1.52		Hours
	Unit cost:	¢086 100	- Y	Total ich coa		1	
	Unit COst.	φ200.109		10101 100 005	οι. φ <b>1,30</b>	1	

# **REVEGETATION WORK**

Task descrip	otion:	Reseed Admin Building			
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	: C1981019
PROJECT	IDENTIFIC	ATION			
Task #:	140	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	140
User:	HR1				
Age	ency or organi	zation name: DRMS			

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

#### JOB TIME AND COST

Estimate	No. of Acres: ed Failure Rate:	4.4 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$2,577.34			
Reseeding Job Cost:	\$411.97			
Total Job Cost:	\$2,989		_	
Job Hours:	0.80			

Task description:	Remove and Reg	rade Stock	Pond PD1			
Colowyo Coal Mine	Peri	mit Action:	MT9	P	ermit/Job#	C1981019
PROJECT IDENTIFI	CATION					
Task #:141	State:	Colorado		Abb	reviation:	None
Date: <u>3/13/2025</u>	County:	Moffat		]	Filename:	141
User: <u>HR1</u>						
Agency or organ	nization name: DR	RMS				
HOURLY EQUIPME	NT COST					
Basic Machine:	Cat 336D L 10'-6"	Stick		Horsepower:		268
Attachment 1:	ROPS Cab			Weight (MT):		29.30
				Data Source:	1	CRG)
Cost Breakdown:					`	,
			Utilization %			
Ownership Cost/H	Hour: \$75.7	78	NA			
Operating Cost/H	Hour: \$52.9	99	100			
Operator Cost/H	Hour: \$33.8	37	NA			
Total Unit Cost/H	Hour: \$162.	64				
Total Fleet Cost/I	Hour: \$162	.64				
MATERIAL QUANT	ITIES					
Initial volume: 58	30	_ CCY	Swell fac	etor: <u>1.165</u>		
Loose volume: 67	76	LCY				
HOURLY PRODUCT Excavator Cycle Time (lo	TION ad bucket, swing loa	ided, dump l	oucket, swing em	ipty):		
		Basic Job C	Condition Descrip	otion: SEVER	E	
	Secondary Job Co	ndition with	nin Basic Descrip	otion: SEVER	E	
			Cycle Time V	alue: 0.445		minutes
Load Bucket Capacity						
				Bucket Size (	Class: Si	nall
Rated Capacity	: 1.56	- LCY (he	aped)		0.025	
Bucket Fill Factor	: 0.925	Loose m	aterial - $1/8^{\prime\prime}$ to 3	<u>5/8″ (90 - 95%) (</u>	0.925	
Aujusted Capacity	. <u>1.44</u>		C:4	- Altitude: 0000	faat	
Job Condition Correction	Factors	G	511	e Allitude: <u>9000</u>	leet	
Altitude Adi	1.00	Source	; B)			
Job Efficiency:	0.83	(1  shift/d)	ay)			
Net Correction:	0.83	multiplie	r			
Una	djusted Hourly Unit	Production:	194.56	LCY/Hour		
A	djusted Hourly Unit	Production:	161.49	LCY/Hour		
Ac	ljusted Hourly Fleet	Production:	161.49	LCY/Hour		
JOB TIME AND COS	<u>ST</u>					
Fleet size: 1	Excavato	or T	otal job time:	4.18	3	Hours
						-
Unit cost:\$1.0	007 /LCY		Total job cost:	<u></u> \$68	1	_

Task description:	Remove and Reg	rade Stock	Pond PD2		
Colowyo Coal Mine	Perr	nit Action:	MT9	Pe	rmit/Job#: <u>C1981019</u>
PROJECT IDENTIFI	CATION				
Task #:       142         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Abbro F	eviation: <u>None</u> ilename: <u>142</u>
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	V	Horsepower: Veight (MT): Shift Basis: Data Source:	268 29.30 1 per day (CRG)
Cost Breakdown:		1			
Ownership Cost/F Operating Cost/F Operator Cost/F	Hour:         \$75.7           Hour:         \$52.9           Hour:         \$33.8           Hour:         \$33.8	78 99 87	Utilization % NA 100 NA	-	
	10ur: \$162.	64			
Initial volume: 80 Loose volume: 93	11125 00 32 f estimated volume:	CCY LCY	Swell facto	or: <u>1.165</u>	
Source of est	imated swell factor:	Cat Hand	book		
Excavator Cycle Time (lo	ad bucket, swing loa Secondary Job Co	ded, dump b Basic Job Co ndition with	ucket, swing emp ondition Descripti in Basic Descripti Cycle Time Val	ty): on: <u>SEVERI</u> on: <u>SEVERI</u> ue: <u>0.445</u>	E E minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Factor Adjusted Capacity	: <u>1.56</u> : <u>0.925</u> : <b>1.44</b>	LCY (hea Loose ma	nped) terial - 1/8" to 3/8	Bucket Size C 3" (90 - 95%) 0.	925
Job Condition Correction	Factors	_	Site	Altitude: <u>9600</u> 1	feet
Altitude Adj: Job Efficiency: Net Correction: Una A Ad	1.00       0.83       0.83       djusted Hourly Unit       djusted Hourly Unit       ljusted Hourly Fleet	Source (CAT HE (1 shift/da multiplier Production: Production: Production:	3) y) 194.56 161.49 <b>161.49</b>	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	5 5 <u>T</u>				
Fleet size: 1	Excavato	or To	otal job time:	5.77	Hours

Task description:	Remove and Reg	rade Stock	Pond EP1			
Colowyo Coal Mine	Peri	nit Action:	MT9	Per	mit/Job#:	: C1981019
PROJECT IDENTIF	ICATION					
Task #:       143         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Abbre Fi	eviation: lename:	None 143
Agency or organ	nization name: DR	RMS				
HOURLY EQUIPME	<u>ENT COST</u>					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	<u>Stick</u>	V	Horsepower: Veight (MT): Shift Basis: Data Source:		268 29.30 per day CRG)
Cost Breakdown:		1				
Ownership Cost/I Operating Cost/I	Hour: \$75.7 Hour: \$52.9	78 99	Utilization % NA 100	-		
Operator Cost/I	Hour: \$33.8	87 <u>6</u> 4	NA	_		
Total Elast Cost/	Hour: $\$162$ .	6/				
Loose volume: 7 Source of Source of es	81 of estimated volume: timated swell factor:	LCY Division Cat Hand	of Reclamation, N	Lining & Safety		
Excavator Cycle Time (lo	oad bucket, swing loa Secondary Job Co	ded, dump b Basic Job Co andition with	ucket, swing emp ondition Descripti in Basic Descripti Cycle Time Val	ty): on: <u>SEVERE</u> on: <u>SEVERE</u> ue: 0.445		minutes
Load Bucket Capacity						
Rated Capacity Bucket Fill Factor Adjusted Capacity	1.56          0.925          1.44	LCY (hea Loose ma LCY	ped) terial - 1/8" to 3/8	Bucket Size Cl 3" (90 - 95%) 0.9	ass: <u>Sr</u> 925	nall
Job Condition Correction	Factors		Site	Altitude: <u>9600</u> f	eet	
Altitude Adj: Job Efficiency: Net Correction: Una	1.00 0.83 0.83 djusted Hourly Unit diusted Hourly Unit	Source (CAT HE (1 shift/da multiplier Production: Production:	<u>y)</u> 194.56	_ LCY/Hour		
A	djusted Hourly Fleet	Production:	<u>161.49</u>	LCY/Hour		
JOB TIME AND COS	<u>ST</u>					
Fleet size: 1	Excavato	or To	tal job time:	4.83		Hours
				<b>*=</b> 0 <		

Task description:	Remove and Reg	rade Stock	Pond EP2			
Colowyo Coal Mine	Peri	nit Action:	MT9	Per	mit/Job#	C1981019
PROJECT IDENTIF	ICATION					
Task #:       144         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Abbre	eviation: lename:	None 144
Agency or orga	nization name: <u>DR</u>	RMS				
HOURLY EQUIPME	ENT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	N	Horsepower: Weight (MT): Shift Basis: Data Source:		268 29.30 per day CRG)
Cost Breakdown:		1				
Ownership Cost/	Hour: \$75.7	78	Utilization % NA	_		
Operator Cost/	Hour: \$33.8	37	NA			
Total Unit Cost/	Hour: \$162.	64				
Total Fleet Cost/	Hour: \$162	.64				
Initial volume: $1$ Loose volume: $1$ Source of	,270 , <b>480</b> of estimated volume:	_ CCY _ LCY _ Division	Swell factors of Reclamation, N	or: <u>1.165</u> Aining & Safety		
Source of es	timated swell factor:	Cat Hand	lbook			
Excavator Cycle Time (le	bad bucket, swing loa Secondary Job Co	ded, dump b Basic Job C Indition with	oucket, swing emp ondition Descript in Basic Descript Cycle Time Va	ion: <u>SEVERE</u> ion: <u>SEVERE</u> iue: <u>0.445</u>	2	_ minutes
Load Bucket Capacity					C	11
Rated Capacity Bucket Fill Factor Adjusted Capacity	1.56       r:     0.925       r:     1.44	LCY (hea Loose ma	aped) aterial - 1/8" to 3/3	Bucket Size Cl 8" (90 - 95%) 0.	925	
Job Condition Correction	Factors		Site	Altitude: <u>9600</u> f	eet	
Altitude Adj: Job Efficiency: Net Correction: Una A A	1.000.830.83adjusted Hourly Unitadjusted Hourly Unitdjusted Hourly Fleet	Source (CAT HI (1 shift/da multiplier Production: Production: Production:	3) ay)      	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND CO	<u>ST</u>					
Fleet size:	Excavato	or Te	otal job time:	9.16		Hours
Unit cost: \$1.0	007 /LCY		Total job cost:	\$1,490	)	

Task description:	Remove and Reg	rade Stock	Pond NTEP1			
Colowyo Coal Mine	Perr	nit Action:	MT9		Permit/Job#:	C1981019
PROJECT IDENTIF	<b>ICATION</b>					
Task #:       145         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Ab	breviation: Filename:	None 145
Agency or organ	nization name: <u>DR</u>	MS				
HOURLY EQUIPME	ENT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick		Horsepower: Weight (MT): Shift Basis: Data Source:		268 29.30 per day CRG)
Cost Breakdown:				2 20		
Ownership Cost/I Operating Cost/I Operator Cost/I Total Unit Cost/I	Hour: \$75.7 Hour: \$52.9 Hour: \$33.8 Hour: \$162.0	78 09 37 64	Utilization % NA 100 NA			
Total Fleet Cost/	Hour: \$162.	.64				
Loose volume: <u>I</u> Source of Source of es <u>HOURLY PRODUC</u> <u>Excavator Cycle Time (lo</u>	pf estimated volume: timated swell factor: <u><b>FION</b></u> and bucket, swing loa	_ LCY  Cat Hand ded, dump b	of Reclamation, lbook bucket, swing em	Mining & Safe	ety	
Load Duglat Consister	Secondary Job Co	Basic Job C ndition with	ondition Descrip in Basic Descrip Cycle Time V	otion: SEVE otion: SEVE alue: 0.445	ERE ERE	minutes
Load Bucket Capacity				Bucket Size	Class: Sr	nall
Rated Capacity Bucket Fill Factor Adjusted Capacity	1.56           0.925           7:           1.44	LCY (head Loose matched LCY	aped) aterial - 1/8" to 3	/8" (90 - 95%)	0.925	
Job Condition Correction	Factors		Sit	e Altitude: <u>960</u>	<u>)0</u> feet	
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HI (1 shift/da multiplier	3) iy)			
Una A A	djusted Hourly Unit djusted Hourly Unit djusted Hourly Fleet	Production: Production: Production:	194.56 161.49 <b>161.49</b>	LCY/Hou LCY/Hou LCY/Hou	ır ır ır	
JOB TIME AND COS	<u>ST</u>					
Fleet size: 1	Excavato	or To	otal job time:	7.	79	Hours
Unit cost: \$1.0	007 /LCY		Total job cost:	\$1,	267	

Task description:	Remove and Reg	rade Stock	Pond ET1			
Colowyo Coal Mine	Perr	nit Action:	MT9	Per	mit/Job#	C1981019
PROJECT IDENTIF	ICATION					
Task #:       146         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Abbre	eviation: lename:	None 146
Agency or orga	nization name: <u>DR</u>	RMS				
HOURLY EQUIPME	ENT COST					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	N	Horsepower: Weight (MT): Shift Basis: Data Source:		268 29.30 per day CRG)
Cost Breakdown:		1				
Ownership Cost/	Hour: \$75.7	78	Utilization % NA	_		
Operator Cost/	Hour: \$33.8	37 37	NA	_		
Total Unit Cost/	Hour: \$162.	64				
Total Fleet Cost/	Hour: <u>\$1</u> 62	.64				
Initial volume: $\frac{3}{4}$ Loose volume: $\frac{3}{4}$ Source of	70 31 of estimated volume:	_ CCY _ LCY Division	Swell factors of Reclamation, N	or: <u>1.165</u> Aining & Safety		
Source of es	timated swell factor:	Cat Hand	lbook			
Excavator Cycle Time (le	bad bucket, swing loa Secondary Job Co	ded, dump b Basic Job C ondition with	oucket, swing emp ondition Descript in Basic Descript Cycle Time Va	ion: <u>SEVERE</u> ion: <u>SEVERE</u> lue: <u>0.445</u>	]	minutes
Load Bucket Capacity				Dualast Cine Cl	C.	
Rated Capacity Bucket Fill Factor Adjusted Capacity	7: <u>1.56</u> r: <u>0.925</u> 7: <b>1.44</b>	LCY (head loose mathematical LOOSe mathematical LCY	aped) aterial - 1/8" to 3/8	8" (90 - 95%) 0.	925	11411
Job Condition Correction	Factors		Site	Altitude: <u>9600</u> f	eet	
Altitude Adj: Job Efficiency: Net Correction: Una A A	1.000.830.83adjusted Hourly Unitadjusted Hourly Unitdjusted Hourly Fleet	Source (CAT HI (1 shift/da multiplier Production: Production: Production:	3) <u>194.56</u> <u>161.49</u> <b>161.49</b>	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND CO	<u>ST</u>					
Fleet size:	Excavato	or Te	otal job time:	2.67		Hours
Unit cost: \$1.0	007 /LCY		Total job cost:	\$434		

Task description:	Remove and Reg	rade Stock P	ond ET2		
Colowyo Coal Mine	Peri	mit Action:	MT9	Per	mit/Job#: <u>C1981019</u>
PROJECT IDENTIF	<b>TCATION</b>				
Task #:       147         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Abbre Fi	viation: <u>None</u> lename: <u>147</u>
Agency or orga	nization name: DR	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	H W D	Iorsepower:       _         eight (MT):       _         Shift Basis:       _         Data Source:       _	268 29.30 1 per day (CRG)
Cost Breakdown:		1			
Ownership Cost/ Operating Cost/ Operator Cost/ Total Unit Cost/	Hour:     \$75.7       Hour:     \$52.9       Hour:     \$33.8       Hour:     \$162	78 99 37 64	Utilization % NA 100 NA		
Total Float Cost	/Hour: \$162	6/			
Source Source of e HOURLY PRODUC Excavator Cycle Time (I	of estimated volume: stimated swell factor: TION oad bucket, swing loa Secondary Job Co	Division of Cat Handb ded, dump bu Basic Job Con	f Reclamation, Mi ook cket, swing empty ndition Descriptio a Basic Descriptio	n: <u>SEVERE</u> SEVERE	
	200011001 9 000 00		Cycle Time Valu	$\begin{array}{c} 0.445 \end{array}$	minutes
Rated Capacity Rated Capacit Bucket Fill Facto Adjusted Capacit	y: <u>1.56</u> rr: <u>0.925</u> y: <b>1.44</b>	LCY (heap Loose mate	] bed) erial - 1/8" to 3/8"	Bucket Size Cl. ' (90 - 95%) 0.9	ass: <u>Small</u> 925
Job Condition Correction	n Factors		Site A	ltitude: <u>9600</u> f	eet
Altitude Adj: Job Efficiency: Net Correction: Un	1.000.830.83adjusted Hourly UnitAdjusted Hourly Unitadjusted Hourly Fleet	Source (CAT HB) (1 shift/day multiplier Production: Production: Production:	194.56 161.49 <b>161.49</b>	LCY/Hour LCY/Hour LCY/Hour	
	ST	=			
<u>JOB TI</u> ME AND CO					
JOB TIME AND CO Fleet size:	1 Excavate	or Tot	al job time:	8.87	Hours

Task description:	Remove and Reg	rade Stock	Pond ETD1			
Colowyo Coal Mine	Peri	mit Action:	MT9	Pe	rmit/Job#:	C1981019
PROJECT IDENTIFI	<b>CATION</b>					
Task #:       148         Date:       3/13/2025         User:       HR1	State: County:	Colorado Moffat		Abbr F	eviation: ilename:	None 148
Agency or organ	ization name: <u>DR</u>	RMS				
HOURLY EQUIPME	<u>NT COST</u>					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick		Horsepower: Weight (MT): Shift Basis: Data Source:	2 1 p (0	268 9.30 er day CRG)
Cost Breakdown:		1				
Ownership Cost/H	Iour: \$75.7	78	Utilization % NA			
Operating Cost/H	Iour: \$52.9	99	100			
Total Unit Cost/F	Iour: \$33.8 Iour: \$162	64	INA			
Total Fleet Cost/	Hour: \$162	.64				
MATERIAL OUANT	ITIES					
Initial volume: 50 Loose volume: 58	00 33	CCY LCY	Swell fac	tor: <u>1.165</u>		
Source of est HOURLY PRODUCT	imated swell factor:	Cat Hand	lbook			
Excavator Cycle 11me (lo	ad bucket, swing loa	ided, dump l	bucket, swing em	<u>pty):</u>	_	
	Secondary Job Co	Basic Job C	in Basic Descrip	tion: <u>SEVER</u>	<u>±                                    </u>	
	, , , , , , , , , , , , , , , , , , ,		Cycle Time Va	alue: 0.445		minutes
Load Bucket Capacity					1 0	11
Rated Canacity	1 56	LCY (he	aped)	Bucket Size C	lass: <u>Sn</u>	nall
Bucket Fill Factor:	0.925	Loose m	aterial - $1/8$ " to 3/	/8" (90 - 95%) 0.	.925	
Adjusted Capacity:	1.44	LCY				
Job Condition Correction	Factors		Site	e Altitude: <u>9600</u>	feet	
Altitude Adi-	1.00	Source	e B)			
Job Efficiency:	0.83	(1  shift/d)	ay)			
Net Correction:	0.83	multiplie	r			
Una	djusted Hourly Unit	Production:	194.56	LCY/Hour		
A	djusted Hourly Unit	Production:	161.49	LCY/Hour		
IOR TIME AND COS	ijusieu nouriy rieet	rroduction:	101.49	LC I/Hour		
Fleet size: 1	Excavate	or T	otal job time:	3.61		Hours
			~			
Unit cost: \$1.0	07 /LCY		Total job cost:	\$587		

Task description:	Remove and Reg	grade Stock l	Pond ETD2		
Colowyo Coal Mine	e Per	mit Action:	MT9	Peri	mit/Job#: <u>C1981019</u>
PROJECT IDENTI	FICATION				
Task #:       149         Date:       3/13/202         User:       HR1	5 State: County:	Colorado Moffat		Abbrev Fil	viation: <u>None</u> ename: <u>149</u>
Agency or org	ganization name:	RMS			
HOURLY EQUIPM	<u>IENT COST</u>				
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	F W	Horsepower:          Yeight (MT):          Shift Basis:          Data Source:	268 29.30 1 per day (CRG)
Cost Breakdown:		i			
Ownership Cos Operating Cos Operator Cos Total Unit Cos	st/Hour: \$75.' st/Hour: \$52.' st/Hour: \$33.' st/Hour: \$162	78 99 87 64	Utilization % NA 100 NA		
Total Elect Co	st/Hour: \$162	64			
Loose volume:	583 e of estimated volume: estimated swell factor:	LCY Division of Cat Hand	of Reclamation, Mi	ining & Safety	
Excavator Cycle Time	(load bucket swing log	ded dump b	ucket swing empty	<i>a</i> )•	
	Secondary Job Co	Basic Job Co	ondition Descriptio	on: <u>SEVERE</u> on: <u>SEVERE</u>	
Laad Ducket Consoliter	Ş		Cycle Time Valu	ie: 0.445	minutes
Rated Capacity	ity: 156	I CV (bea	ned)	Bucket Size Cla	ss: Small
Bucket Fill Fac Adjusted Capac	tor: $0.925$ ity: <b>1.44</b>	Loose ma	terial - 1/8" to 3/8"	° (90 - 95%) 0.9	25
Job Condition Correcti	on Factors		Site A	Altitude: <u>9600</u> fe	et
Altitude Adj: Job Efficiency: Net Correction: U	1.00 0.83 0.83 Inadjusted Hourly Unit Adjusted Hourly Unit Adjusted Hourly Fleet	Source (CAT HB (1 shift/da multiplier Production: Production: Production:	$\frac{194.56}{161.49}$	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND C	OST				
Fleet size:	1 Excavat	or To	tal job time:	3.61	Hours
	1.007 Л.СУ		Total job cost:	\$597	

Task description:	Remo	ove and Reg	rade Stock	Pond WTD1			
Colowyo Coal Mi	ne	Perr	nit Action:	MT9	Pe	ermit/Job#:	C1981019
PROJECT IDEN	<b>FIFICATIO</b>	<u>DN</u>					
Task #:       150         Date:       3/13/20         User:       HR1	)25	State: County:	Colorado Moffat		Abbr F	eviation: _ ilename: _	None 150
Agency or o	organization i	name: DR	MS				
HOURLY EQUIP	MENT CO	<u>ST</u>					
Basic Machin Attachment	e: <u>Cat 336</u> 1: <u>ROPS C</u>	DL 10'-6" Cab	Stick		Horsepower: Weight (MT): Shift Basis: Data Source:	29 29 1 pc (C	268 9.30 er day (RG)
Cost Breakdown:			1				
Ownership C Operating C Operator C Total Unit C	ost/Hour: ost/Hour: ost/Hour:	\$75.7 \$52.9 \$33.8 \$162	78 09 37 64	Utilization % NA 100 NA			
Total Elect C	Cost/Hour	\$162.	64				
Loose volume: Sou Source o HOURLY PROD Excavator Cycle Tim	583 rce of estima of estimated s UCTION ee (load bucke	ted volume: swell factor: et, swing loa	_ LCY _Division Cat Hand ded, dump b	of Reclamation, 1 book bucket, swing emp	Mining & Safety	7	
	Secor	ndary Job Co	Basic Job C	ondition Descript	ion: <u>SEVER</u>	E E	
	50001	idai y 000 00		Cycle Time Va	alue: $0.445$		minutes
Load Bucket Capacit Rated Cap Bucket Fill Fa	<u>v</u> acity: actor:	1.56 0.925	LCY (hea	aped) aterial - 1/8" to 3/	Bucket Size C 8" (90 - 95%) 0.	lass: <u>Sm</u> .925	all
Adjusted Capa	acity:	1.44	LCY				
Job Condition Correc	ction Factors			Site	Altitude: <u>9600</u>	feet	
Altitude Ad Job Efficiency Net Correction	j: <u>1.</u> y: <u>0.</u> n: <u>0.</u> Unadjusted I Adjusted I	00 83 83 Hourly Unit Hourly Unit	Source (CAT HI (1 shift/dz multiplier Production: Production:	3) <u>194.56</u> <u>161.49</u>	LCY/Hour LCY/Hour		
	Adjusted F	Iourly Fleet	Production:	161.49	LCY/Hour		
JOB TIME AND	COST						
Fleet size:	1	Excavato	or To	otal job time:	3.61		Hours

# BULLDOZER WORK

Task description:	Regrade Haul Road A Wide	ning		
: <u>Colowyo Coal Mine</u>	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION			
Task #· 151	State: Colorado		Abbreviation:	None
Date: $3/12/2025$	County: Moffat		Filename:	151
User: HR1			-	101
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850				
Blade Type: Uni	versal			
Attachment: 1-sł	ank ripper			
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CR	.G)			
Cost Breakdown:		TT/11 / 0/		
Ownership Cost/Hours	\$406 63	Utilization %		
Ownership Cost/Hour:	\$490.02	100		
Ripper own Cost/Hour:	\$324.90 \$27.44	<u> </u>		
Ripper on Cost/Hour	\$16.65	100		
Operator Cost/Hour:	\$38.59	NA		
Initial Volume: 406,0	089			
Swell factor:1.250Loose volume:507,0	) 511 LCY			
Source of estimated volur	ne: Division of Reclamati	on, Mining & Safety		
HOURI V PRODUCT				
	100 5			
Unadjusted hourly produce	etion: 2,870.3 LCY/hr			
Materials consistency des	cription: <u>Consolidated stock</u>	pile 1.0		
Average push gradient: Average site altitude:	15 % 7,600 feet			
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rock	, 75% Earth		
Job Condition Correction	Factor	Source		
Operator S	Skill: 0.900	(AB.AVG.)		
Material consiste	ency: 1.000	(CAT HB)		
Dozing met	thod: <u>1.000</u>	(GEN.)		
Visib	111ty: 1.000	(AVG.)		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 0.666	(CAT HB)
Altitud	le: 0.930	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4016	
Adjusted unit production:	1,152.71 LCY/hr	
Adjusted fleet production:	1152.71 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.784/LCY

Total job time:	<b>440.36</b> Hours
Total job cost:	\$398,174

# BULLDOZER WORK

Task description:	Regrad	e Topsoil for <b>F</b>	Naw wa	ater Line Expansion		
Colowyo Coal Mine	!	Permit A	ction:	MT9	Permit/Job#:	C1981019
PROJECT IDENTI	FICATION	1				
Task #: 152		State: Col	lorado		Abbreviation:	None
Date: 3/12/2025	5	County: Mo	offat		Filename:	152
User: HR1					-	
Agency or org	anization na	me: DRMS				
HOURLY EQUIPM	IENT COS	<u>T</u>				
Basic Machine: C	at D11T - 11	U				
Horsepower: 8	50					
Blade Type: U	niversal			_		
Attachment: 1	-shank ripper	•				
Shift Basis: 1	per day			_		
Data Source: (0	CKG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Hour	:	\$4	96.62	NA		
Operating Cost/Hour	:	\$3	24.90	100		
Ripper own. Cost/Hour	:	\$	27.44	NA		
Ripper op. Cost/Hour	:	\$	16.65	100		
Operator Cost/Hour	:	\$	38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$904.20 <b>\$904.20</b>					
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>16</u> Swell factor: <u>1.0</u>	<u>\$904.20</u> <b>\$904.20</b> <b>TITIES</b> 0 000					
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16	\$904.20 <b>\$904.20</b> <b>TITIES</b> 0 000 0 LCY					
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16         Source of estimated vol       Source of estimated swo         HOURLY PRODUCT	\$904.20 \$904.20 TTITIES 0 000 0 LCY ume: ell factor:	Division of Re Cat Handbook	eclamati	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.0</u> Loose volume: <u>16</u> Source of estimated vol Source of estimated swo HOURLY PRODUC	\$904.20 <b>\$904.20</b> <b>TITIES</b> 0 000 0 LCY ume: ell factor: <b>CTION</b>	Division of Re Cat Handbook	eclamati	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 16 Swell factor: 1.0 Loose volume: 16 Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance:	\$904.20 \$904.20 TITIES 0 0 0 0 0 0 0 0 0 0 0 0 0	Division of Re Cat Handbook	eclamati	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.0</u> Loose volume: <u>16</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod	\$904.20 \$904.20 TITIES 0 000 0 LCY ume: ell factor: CTION huction:	Division of Re Cat Handbook 00 feet 870.3 LCY/hr	eclamati	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.0</u> Loose volume: <u>16</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod	\$904.20         \$904.20         \$904.20         TITIES         0         000         0 LCY         ume:         ell factor:         CTION         luction:       2,         escription:	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso	eclamati	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16         Source of estimated vol       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly prod       Materials consistency d         Average push gradient:       Average site altitude:	$ \frac{\$904.20}{\$904.20} $ $ \frac{TITIES}{0} $ $ 0 LCY $ ume: ell factor: CTION $ \frac{10}{2} $ escription: $ \frac{0 \%}{7,600 \text{ feal}} $	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et	eclamati	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16         Source of estimated vol       Source of estimated swo         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency d         Average site altitude:         Material weight:	\$904.20 \$904.20 \$904.20 (TITIES 0 0 0 0 0 CTION 10 10 10 10 10 10 10 10 10 10	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et s/LCY	eclamati	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.0</u> Loose volume: <u>16</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description:	\$904.20 \$904.20 \$904.20 (TITIES 0 0 0 0 0 CTION 10 10 10 10 10 10 10 10 10 10	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et s/LCY Dry packed	eclamati	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16         Source of estimated vol       Source of estimated swo         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency d         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$904.20 \$904.20 \$904.20 (TITIES 0 0 0 0 0 CY ume: ell factor: crition: crition: escription: 0 % 7,600 fee  2,550 lbs Earth - E on Factor	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et 5/LCY Dry packed	eclamati	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16         Source of estimated vol       Source of estimated swell         HOURLY PRODUC         Average push distance:       Unadjusted hourly prod         Materials consistency d         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator	\$904.20 \$904.20 \$904.20 (TITIES 0 0 0 LCY ume: ell factor: CTION (uction:2, escription: 0 % 7,600 fea 2,550 lbs Earth - E on Factor r Skill:	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et s/LCY Dry packed 0.900	eclamati	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       16         Swell factor:       1.0         Loose volume:       16         Source of estimated vol       Source of estimated swo         HOURLY PRODUC         Average push distance:         Unadjusted hourly prod         Materials consistency d         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operato         Material consi	\$904.20 \$904.20 \$904.20 (TITIES 0 0 0 LCY ume: ell factor: CTION (uction:2, escription: 0 %  7,600 fea  Earth - E on Factor or Skill: stency:	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et s/LCY Dry packed 0.900 1.100	olidated	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: <u>16</u> Swell factor: <u>1.0</u> Loose volume: <u>16</u> Source of estimated vol Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato Material consi Dozing n	\$904.20 \$904.20 \$904.20 (TITIES 0 0 0 LCY ume: ell factor: CTION (uction:2, escription: 0 %  c escription: 0 %  0 %  c 0 %  c escription: 0 %  0 %  c 0 %  c 0 %  c 0 %  c 0 %  c c 0 %  c c 0 %  c c factor: 0 %  c c c 0 %  c c c c 0 %  c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c c_	Division of Re Cat Handbook 00 feet 870.3 LCY/hr Partly conso et s/LCY Dry packed 0.900 1.100 1.000	eclamati	on, Mining & Safety stockpile 1.1 <u>Source</u> (AB.AVG.) (CAT HB) (GEN.)		

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pi	Spoil pile:		(DOZ-OC)
Push gradie	ent:	1.000	(CAT HB)
Altitud	de:	0.930	(CAT HB)
Material Weight:		0.902	(CAT HB)
Blade type:		1.000	(PAT)
Net correction			
Adjusted unit production:	1,9	978.50 LCY/hr	
Adjusted fleet production:	19	78.5 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.457/LCY

Total job time:	<b>0.08</b> Hours
Total job cost:	\$73

# **REVEGETATION WORK**

Task desc	ription:	Reseed Raw Water Line Exp	oansion		
Site: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Job#	: C1981019
PROJEC'	<b>F IDENTIFIC</b>	CATION			
Task #	153	State: Colorado		Abbreviation:	None
Date	3/28/2025	County: Moffat		Filename:	153
User	HR1				
А	gency or organi	zation name: DRMS			

# **FERTILIZING**

### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$6.34
Bluebunch Wheatgrass - Secar	4.00	12.86	\$42.05
Bitterbrush, Antelope	6.00	1.85	\$339.08
Mountain Brome - Bromar	2.00	3.21	\$12.03
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Rocky Mountain Fescue	2.00	32.14	\$21.57
Slender Wheatgrass - Pryor	1.50	5.48	\$9.27
Milk Vetch, Cicer - Lutana	0.60	2.00	\$5.87
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37
Western Wheatgrass - Arriba	3.00	7.58	\$27.10
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Rabbitbrush, Rubber	0.60	8.94	\$50.04
Needlegrass, Green - Lodorm	0.40	1.66	\$3.46
Sagebrush, Louisiana or Prairie	1.00	100.79	\$184.91
Sagebrush, Mountain or Big	4.00	211.20	\$330.80
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Silver	1.50	29.13	\$102.19
Saltbush, Four Wing	3.20	4.41	\$63.59
Snowberry, Mountain	1.50	2.58	\$88.59
Sumac, Skunkbrush	1.00	0.47	\$45.13
Penstemon, Palmer	0.20	4.42	\$15.59
Penstemon, Rocky Mountain	1.00	15.67	\$61.41
Yarrow, Western	0.40	24.32	\$19.30
Totals Seed Mix	38.30	493.19	\$1,481.54

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

2 esemption		Cost /Acre
		\$
,	Total Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ck Cost / Acre	\$0.00

## JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,754.10
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,754.10
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$1,754.10** 

Reseeding Job Cost:	\$350.82
Total Job Cost:	\$2,105
Job Hours:	0.50

rusk desemption.	Regrade Opper S	ection 3 Pol	nd		
Colowyo Coal Mine	Pern	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task # 154	State:	Colorado		Abbreviation.	None
Date: 3/12/2025	County:	Moffat		Filename:	154
User: HR1				-	
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405	5				
Blade Type: Ser	ni-Universal				
Attachment: 3-sl	hank ripper				
Shift Basis: 1 p	er day				
Data Source: (CF	RG)				
Cost Breakdown:		1			
		<b>***</b>	<u>Utilization %</u>		
Ownership Cost/Hour:		\$253.16	NA 100		
Operating Cost/Hour:		\$164.35	<u> </u>		
Ripper own. Cost/Hour:		\$18.79	NA 25		
Conception Cost/Hour.		\$2.37 \$28.50	23		
Operator Cost/Hour:		\$38.39	NA		
Total unit Cost/Hour	\$477.26				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$477.26 <b>\$477.26</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$477.26 \$477.26 TTIES 50				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16	\$477.26 \$477.26 TTIES 50 5				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6	\$477.26 \$477.26 TTIES 50 5 20 LCY				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6 Source of estimated volum	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me:Division control of the other states of the other	 	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volu       Swell	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division of 1 factor: Cat Handle		on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division c 1 factor: Cat Handle		on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division c 1 factor: Cat Handle <b><u>CION</u></b>	of Reclamation	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division of 1 factor: Cat Handle <b>FION</b> 100 feet		 on, Mining & Safety 		
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	<u>\$477.26</u> <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: <u>Division of</u> 1 factor: <u>Cat Handle</u> <b><u>Cat Handle</u></b> <b><u>Cat Handle</u> <b>Cat Handle</b> <b>Cat H</b></b>	 of Reclamation pook	 on, Mining & Safety 		
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division of 1 factor: Cat Handle <b>CION</b> ction: 100 feet 1,243.2 LCY scription: Compace	 of Reclamation pook //hr cted fill or er	on, Mining & Safety    mbankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average push gradient: Average push gradient:	<u>\$477.26</u> <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division of 1 factor: Cat Handle <b>CION</b> ction: 100 feet 1,243.2 LCY scription: Compace 5 % 7 600 feet		 on, Mining & Safety    mbankment 0.9		
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volum       Source         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	\$477.26         \$477.26         TTIES         50         50         50         50         20 LCY         me:       Division of Cat Handb         I factor:       Cat Handb         FION         ction:       100 feet         1,243.2 LCY         scription:       Compace         5 %         7,600 feet		on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volum       Source         Source of estimated swell <b>HOURLY PRODUCT</b> Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division of 1 factor: Cat Handle <b>CION</b> ction: 100 feet 1,243.2 LCY scription: Compace 5 % 7,600 feet 2,900 lbs/LCY	 of Reclamation pook //hr cted fill or er	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$477.26 <b>\$477.26</b> <b>TTIES</b> 50 5 <b>20</b> LCY me: Division of 1 factor: Cat Handle <b>CION</b> ction: 100 feet 1,243.2 LCY scription: Compace 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock		on, Mining & Safety on, Mining & Safety nbankment 0.9 50% Earth		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volu       Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$477.26         \$477.26         TTIES         50         50         50         50         20 LCY         me:       Division of Cat Handle         I factor:       Cat Handle         FION         ction:       100 feet         1,243.2 LCY         scription:       Compace         5 %         7,600 feet         2,900 lbs/LCY         Decomposed rock         Factor		on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volum       Source         Source of estimated volum       Source of estimated volum         Source of estimated swell       HOURLY PRODUCT         Average push distance:       Unadjusted hourly product         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction         Operator       Operator	\$477.26         \$477.26         TTIES         50         50         50         20 LCY         me:       Division of Cat Handle         I factor:       Cat Handle         FION         ction:       1.243.2 LCY         scription:       Compace         5 %         7,600 feet         2,900 lbs/LCY         Decomposed rock         Factor         Skill:       0.9		on, Mining & Safety mbankment 0.9 50% Earth (AB.AVG.)		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       22,8         Swell factor:       1.16         Loose volume:       26,6         Source of estimated volu       Source of estimated volu         Source of estimated swell       MOURLY PRODUCT         Average push distance:       Unadjusted hourly product         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction         Operator       Material consist	\$477.26         \$477.26         TTIES         50         50         50         50         20 LCY         me:       Division of         1 factor:       Cat Handb         FION         ction:       100 feet         1,243.2 LCY         scription:       Compace         5 %       7,600 feet         2,900 lbs/LCY       Decomposed rock         Factor       Skill:       0.9         scription:       0.9		on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 22,8 Swell factor: 1.16 Loose volume: 26,6 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	$\begin{array}{r} & \$477.26 \\ \hline \$477.26 \\ \hline \$477.26 \\ \hline \hline \$477.26 \\ \hline \hline \$477.26 \\ \hline \hline \$477.26 \\ \hline \hline \$50 \\ \hline 50 \\ \hline 50 \\ \hline 50 \\ \hline 50 \\ \hline 20 LCY \\ \hline \hline me: Division columns \\ \hline 50 \\ \hline 100 feet \\ \hline Cat Handb \\ \hline \hline 100 feet \\ \hline Cat Handb \\ \hline \hline 100 feet \\ \hline \hline 1,243.2 LCY \\ \hline \hline scription: Compace \\ \hline \hline 5\% \\ \hline 7,600 feet \\ \hline \hline 2,900 lbs/LCY \\ \hline \hline Decomposed rock \\ \hline \hline Factor \\ \hline Skill: 0.9 \\ \hline ency: 0.9 \\ \hline 0.9 \\ \hline \hline model \\ \hline \end{array}$		on, Mining & Safety 		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3851	
Adjusted unit production: 47	/8.76 LCY/hr	
Adjusted fleet production: 47	<b>'8.76</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.997/LCY

Total job time:	<b>55.60</b> Hours
Total job cost:	\$26,537

Task description:	Regrade Lower Section 3 Po	nd		
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 155	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	155
User: HR1			-	
Agency or organi	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat l	D9T - 9SU			
Horsepower: 405				
Blade Type: Sem	i-Universal	<u> </u>		
Attachment: <u>3-sha</u>	ank ripper			
Shift Basis: <u>1 per</u>	r day			
Data Source: (CR	<u>ل</u> )			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	NA		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$38.59 \$477.26 <b>\$477.26</b>	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI	\$38.59 \$477.26 <b>\$477.26</b> TIES	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:27,70	\$38.59 \$477.26 <b>\$477.26</b> <u>TIES</u> 0	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165	\$38.59 \$477.26 <b>\$477.26</b> TIES 0	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 1 LCY	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANTI</u> Initial Volume: <u>27,70</u> Swell factor: <u>1.165</u> Loose volume: <u>32,27</u> Source of estimated volum	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 1 LCY ne: Division of Reclamati	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated swell	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 1 LCY te: Division of Reclamati factor: Cat Handbook	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated swell	\$38.59 \$477.26 <b>\$477.26</b> <b>CTIES</b> 0 1 LCY te: Division of Reclamati factor: Cat Handbook	  on, Mining & Safety 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated swell : HOURLY PRODUCT:	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 1 LCY ne: Division of Reclamati factor: Cat Handbook <b>ION</b>	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated swell HOURLY PRODUCT: Average push distance:	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 1 LCY ne: Division of Reclamati factor: Cat Handbook <b>ION</b> 100 feet	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT: Average push distance: Unadjusted hourly product	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 <b>1</b> LCY te: Division of Reclamati factor: Cat Handbook <b>ION</b> <u>100 feet</u> tion: 1,243.2 LCY/hr	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT: Average push distance: Unadjusted hourly product Materials consistency desc	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 <b>1</b> LCY te: Division of Reclamati factor: Cat Handbook <b>ION</b> tion: 1,243.2 LCY/hr cription: Compacted fill or en	 on, Mining & Safety   mbankment 0.9		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT: Average push distance: Unadjusted hourly product Materials consistency desc	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 <b>1</b> LCY te: Division of Reclamati factor: Cat Handbook <b>ION</b> tion: 1,243.2 LCY/hr cription: Compacted fill or end	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT: Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	\$38.59 \$477.26 \$477.26 <b>TIES</b> 0 <b>I</b> LCY the: Division of Reclamati factor: Cat Handbook <b>ION</b> 100 feet tion: 1,243.2 LCY/hr cription: Compacted fill or en 5 % 7,600 feet			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight:	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 <b>1</b> LCY te: <b>1</b> LOY te: <b>1</b> LCY te: <b>1</b> LCY <b>1</b> LCY <b></b>	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 <b>1</b> LCY te: Division of Reclamati factor: Cat Handbook <b>ION</b> <u>100 feet</u> tion: 1,243.2 LCY/hr cription: Compacted fill or en <u>5 %</u> 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock.	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description:	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 <b>1</b> LCY te: Division of Reclamati factor: Cat Handbook <b>ION</b> tion: 1,243.2 LCY/hr cription: Compacted fill or en <u>5 %</u> 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock,			
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       27,70         Swell factor:       1.165         Loose volume:       32,27         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT:         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I	\$38.59 \$477.26 \$477.26 TIES 0 1 LCY he: Division of Reclamati factor: Cat Handbook ION 100 feet tion: 1,243.2 LCY/hr cription: Compacted fill or end 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock. Factor kill: 0 900	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S Material consistent	\$38.59 \$477.26 <b>\$477.26</b> <b>TIES</b> 0 1 LCY te:			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 27,70 Swell factor: 1.165 Loose volume: 32,27 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S Material consistency Material consistency	\$38.59 \$477.26 \$477.26 <b>TIES</b> 0 1 LCY te: Division of Reclamati factor: Cat Handbook <b>ION</b> 100 feet 1,243.2 LCY/hr tion: 1,243.2 LCY/hr cription: Compacted fill or en 5 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock. Factor kill: 0.900 ncy: 0.900 hod: 1.000			

Job efficient	y: (	0.830	(1 SHIFT/DAY)
Spoil pi	le: (	0.800	(FND-RF)
Push gradie	nt: (	0.903	(CAT HB)
Altitud	e:	1.000	(CAT HB)
Material Weig	nt: (	0.793	(CAT HB)
Blade typ	e:	1.000	(PAT)
Net correction	n: 0.3851		
Adjusted unit production:	478.76 LCY/h	r	
Adjusted fleet production:	478.76 LCY/h	r	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.997/LCY

Total job time:	67.40 Hours
Total job cost:	\$32,169

## Task # 156

Page 1 of 2

Task description:	Regrade Topsoil	tor Upper a	ind Lower Section 510		
Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #· 156	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename:	156
User: HR1					
Agency or organ	ization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405			_		
Blade Type: Sem	i-Universal				
Attachment: <u>3-sh</u>	ank ripper				
Shift Basis: <u>1 pe</u>	r day				
Data Source: (CR	G)				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$18.79	NA		
		\$2.37	25		
Ripper op. Cost/Hour:					
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$477.26 <b>\$477.26</b>	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI	\$477.26 <b>\$477.26</b> [TIES	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 20,90 Swell factor: 1,000	\$477.26 <b>\$477.26</b> ITIES	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 20,90 Swell factor: 1.000 Loose volume: 20,90	\$477.26 \$ <b>477.26</b> (TIES) 00 00 00 LCY	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 20,90 Swell factor: 1.000 Loose volume: 20,90	\$477.26 <b>\$477.26</b> (TIES) 00 00 LCY	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum	\$477.26 <b>\$477.26</b> <b>ITIES</b> 00 00 LCY ne: 25.9 Acre	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell	\$477.26 <b>\$477.26</b> <b>(TIES</b> 00 00 00 LCY he: 25.9 Acree factor: Cat Hand	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$477.26 <b>\$477.26</b> <b>ITIES</b> 00 00 LCY ne: <u>25.9 Acre</u> factor: <u>Cat Hand</u> <b>ION</b>	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 00 100 100 factor: 25.9 Acre Cat Hand 100 100 feet	\$38.59	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 LCY ne:25.9 Acre factor:Cat Handl <b>ION</b> 100 feet 1,243.2 LCY	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc	\$477.26 <b>\$477.26</b> <b>ITIES</b> 00 0 LCY ne: <u>25.9 Acre</u> factor: <u>Cat Hand</u> <b>ION</b> tion: <u>1,243.2 LCS</u> cription: <u>Compare</u>	\$38.59 	   mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 LCY ne: <u>25.9 Acre</u> factor: <u>Cat Handle</u> <b>ION</b> tion: <u>100 feet</u> 1,243.2 LCY cription: <u>Compare</u> 0 %	\$38.59 	   mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 LCY ne:25.9 Acre factor:Cat Handl <b>ION</b> tion:100 feet 1,243.2 LCY cription:Compac 0 % 7,600 feet	\$38.59 	 		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 LCY ne: <u>25.9 Acre</u> factor: <u>Cat Handl</u> <b>ION</b> tion: <u>100 feet</u> 1,243.2 LCY cription: <u>Compar</u> 0 % 7,600 feet 1,600 lbs/LCY	\$38.59 =	 		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 LCY ne: <u>25.9 Acre</u> factor: <u>Cat Handle</u> <b>100 feet</b> 1,243.2 LCY cription: <u>Compar</u> 0 % 7,600 feet 1,600 lbs/LCY Top Soil	\$38.59 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 0 LCY ne: 25.9 Acre factor: Cat Handl <b>ION</b> tion: 1,243.2 LCY cription: Compac 0 % 7,600 feet 1,600 lbs/LCY Top Soil Factor	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I	\$477.26 <b>\$477.26</b> <b>(THES</b> 00 00 LCY ne:25.9 Acre factor:Cat Handl <b>ION</b> tion:100 feet 1,243.2 LCY cription:Compac 0 % 7,600 feet 1,600 lbs/LCY Top Soil <u>Factor</u> kill:0.	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I         Operator S         Material consiste	\$477.26 <b>\$477.26</b> <b>[TIES</b> 00 00 LCY ne:	\$38.59 \$38.59 \$\$ @ 6" book Y/hr cted fill or er 750 900			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANTI</b> Initial Volume:       20,90         Swell factor:       1.000         Loose volume:       20,90         Source of estimated volum         Source of estimated volum         Source of estimated swell <b>HOURLY PRODUCT</b> Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I         Operator S         Material consiste         Dozing met	\$477.26 <b>\$477.26</b> <b>\$477.26</b> <b>[THES</b> 00 00 LCY ne: <u>25.9 Acre</u> factor: <u>Cat Handle</u> <b>100 feet</b> 1,243.2 LCY cription: <u>Compact</u> 0 % 7,600 feet 1,600 lbs/LCY Top Soil <u>Factor</u> Skill: <u>0.7</u> Skill: <u>0.7</u> Note: <u>1.4</u>	\$38.59 \$38.59 \$\$ @ 6" book Y/hr cted fill or er 750 900 000			

Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	e: 0.800	(FND-RF)
Push gradien	t: 1.000	(CAT HB)
Altitude	e: 1.000	(CAT HB)
Material Weigh	t: 1.438	(CAT HB)
Blade type	e: 1.000	(PAT)
Net correction	n:0.6445	
Adjusted unit production:	801.24 LCY/hr	
Adjusted fleet production:	801.24 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.596/LCY

Total job time:	<b>26.08</b> Hours
Total job cost:	\$12,449

# **REVEGETATION WORK**

Task descrip	otion:	Reseed Upper and Lower S	ection 3 Po	nd Disturbance	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jo	b#: <u>C1981019</u>
PROJECT	IDENTIFIC	CATION			New
Lask #: Date:	157 3/28/2025	County: Moffat		Abbreviation: Filename:	None 157
User:	HR1			I nename.	1.57
Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	25.9 20%	_ Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$15,171.18			
Reseeding Job Cost:	\$2,425.02			
Total Job Cost:	\$17,596			
Job Hours:	13.00			

Task description:	Pump Upper/	Lower Section	3 Ponds Prior to 7	<b>Fwo Cleanings</b>	
Colowyo Coal Mine	I	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	<b>ICATION</b>				
Task #:158	State	e: Colorado		Abbreviation:	None
Date: <u>3/13/2025</u> User: <u>HR1</u>	Count	y: <u>Moffat</u>		Filename:	158
Agency or orga	nization name:	DRMS			
HOURLY EQUIPME	ENT COST				
	Description			Quantity	
Make and Model:	Centrifugal pun	np - 200M, 10 i	n.	1	
Attachment 1:		<u> </u>		0	
Attachment 2:	Discharge hose	- 2 m. D., 25 ft	•	<u> </u>	
				1	
Shift Basis: 1	/U per day				
Weight:(U	1.95 S Tons)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/	Hour: \$2	28.82	NA		
Operating Cost/	Hour: $32$	29.56	100 NA		
Total Unit Cost/	Hour: \$2	30.45	INA		
Total Float Cost	/Hour: \$	80.45			
PUMPING QUANTI	TIES	00.45			
Initial Pond Vol	ume:	9.54		Conversion factor:	325850.5800
Final Pond Vol	ume: <b>3,1</b> (	08,614.53	gallons		
Total Pond Inflow Su	rface			Unit inflow rate in	
Total David Inflam Via	Area:	50	Sq. ft.	gph/sq. ft.:	0.0000
1 otal Pond Inflow Vo	Hume Hour:	0.00	gallons		
Source	of actimated volum	no: Division	Sumono		
DUMDING TIME	or estimated volum		Estimate		
	in the Dump Con		200.000	anh /auma	
E	stimated Suction F	lead:	10	gpn/pump feet	
Esti	mated Discharge H	Head:	10	feet	
	Total H	Head:	20	feet	
	CPB Pump Capa	acity:	201,000	gph/pump	
	Site Alti	tude:	7,600	feet	
Adjus	sted Pumping Capa	acity:	201,000	gph	
Initial Una	djusted Pumping	Time:	15.47	hours	
Inflow	during Initial Pum	ping:	0	gallons	
Net Una	djusted Pumping T	l'ime:	15.47	(3%  mls)	
Aluu P	und Aujusullellt Fa	actor:	0.9167	(5%  rule) (55 min./hr.)	
Total A	djusted Pumping 7	Time:	12.90	hours	
JOB TIME AND CO	ST				
			Total job	time: <b>12.90</b>	Hours
Unit cost:\$0.00	00334 /Gallor	1	Total job	o cost: \$1,038	

PUMPING WORK

Fask description:			iee (IK iee)		
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #· 160	State	Colorado		Abbreviation:	None
Date: $\frac{2}{6}/2025$	County:	Moffat		Filename	C019-160
User: $HR1$	County.	Monut		i nenume.	0017 100
Agency or organ	ization name: DR	RMS			
HOUDI V FOLUDMFI	NT COST				
Basic Machine: Cat	D8T - 8SU				
Horsepower: 310	·				
Blade Type: Sem	1-Universal				
Attachment: <u>1-sh</u>	ank ripper				
Shift Basis: 1 pe	r day				
Data Source: (CR	G)		_		
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$173.32	NA		
Operating Cost/Hour:		\$109.71	100		
Ripper own. Cost/Hour:		\$13.69	NA		
Ripper op. Cost/Hour:		\$9.24	100		
Operator Cost/Hour		\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$344.55 <b>\$344.55</b>				
Fotal unit Cost/Hour:         Fotal Initial Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swall feators       1000	\$344.55 <b>\$344.55</b> ITIES				
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swell factor:       1.000         Loose volume:       500 I	\$344.55 <b>\$344.55</b> (TIES) (CY)				
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swell factor:       1.000         Loose volume:       500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$344.55 <b>\$344.55</b> <b>(TIES</b> CCY he: Division of factor: Cat Hand <b>ION</b> tion: 200 feet 491.9 LCY/	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Initial Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swell factor:       1.000         Loose volume:       500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Materials consistency desc	\$344.55 <b>\$344.55</b> <b>[TIES</b> CCY he: Division of factor: Cat Hand <b>ION</b> tion: 200 feet 491.9 LCY/ cription: Partly of	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:         Swell factor:         Loose volume:         500 L         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc	\$344.55 <b>\$344.55</b> <b>[TIES</b> CCY ne: Division of factor: Cat Hand <b>ION</b> tion: 200 feet 491.9 LCY/ cription: Partly of 0 %	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:         Swell factor:         1.000         Loose volume:         500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:	\$344.55 <b>\$344.55</b> <b>[TIES</b> .CY he: Division of factor: Cat Hand <b>ION</b> tion: 200 feet tion: 491.9 LCY/ cription: Partly of 0 % 7,600 feet	of Reclamati book	on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swell factor:       1.000         Loose volume:       500 L         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:	\$344.55 <b>\$344.55</b> <b>[TIES</b> CCY ne: Division of factor: Cat Hand <b>ION</b> tion: 200 feet 491.9 LCY/ cription: Partly of 0 % 7,600 feet 1,600 lbs/LCY		on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:         Swell factor:         1.000         Loose volume:         500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produc         Materials consistency desc         Average site altitude:         Material weight:         Weight description:	\$344.55 <b>\$344.55</b> <b>[TIES</b> CCY he: Division of factor: Cat Hand <b>ION</b> tion: 200 feet 491.9 LCY/ cription: Partly of 0 % 7,600 feet 1,600 lbs/LCY Top Soil		on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Initial Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swell factor:       1.000         Loose volume:       500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction	\$344.55 <b>\$344.55</b> <b>ITIES</b> CY he: Division of factor: Cat Hand <b>ION</b> tion: <u>200 feet</u> tion: <u>491.9 LCY/</u> cription: <u>Partly c</u> 0 % 7,600 feet 1,600 lbs/LCY Top Soil Factor		on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Initial Cost/Hour:         MATERIAL QUANTI         Initial Volume:         Swell factor:         1.000         Loose volume:         500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction	\$344.55 <b>\$344.55</b> <b>[TIES</b> <u>CY</u> he: Division of factor: Cat Hand <u>ION</u> tion: <u>200 feet</u> tion: <u>200 feet</u> tion: <u>491.9 LCY/</u> cription: <u>Partly of</u> 0 % 7,600 feet <u>1,600 lbs/LCY</u> <u>Top Soil</u> <u>Factor</u> kill: <u>0</u> .		on, Mining & Safety 		
Fotal unit Cost/Hour:         Fotal Initial Volume:         MATERIAL QUANTI         Initial Volume:         Swell factor:         1.000         Swell factor:         1.000         Loose volume:         500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consiste	\$344.55 <b>\$344.55</b> <b>[TIES</b> CCY ne: Division of factor: Cat Hand <b>ION</b> tion: <u>200 feet</u> 491.9 LCY/ cription: Partly c 0 % 7,600 feet 1,600 lbs/LCY Top Soil <u>Factor</u> kill: <u>0.</u> ncy: <u>1.</u>		on, Mining & Safety		
Fotal unit Cost/Hour:         Fotal Initial Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       500         Swell factor:       1.000         Loose volume:       500 I         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consiste         Dozing met	\$344.55 <b>\$344.55</b> <b>[TIES</b> CCY ne: Division of factor: Cat Hand <b>ION</b> tion: 200 feet 1,600 feet 1,600 lbs/LCY Top Soil Factor tkill: 0. ncy: 1. hod: 1.		on, Mining & Safety		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	1.1816	
Adjusted unit production: 58	1.23 LCY/hr	
Adjusted fleet production: <b>58</b>	1.23 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.593/LCY

Total job time:	<b>0.86</b> Hours
Total job cost:	\$296

# **REVEGETATION WORK**

Task descri	ption:	Reseed 0.3 Acres (TR-153)			
ite: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
PROJECT Task #:	IDENTIFIC	<u>State:</u> Colorado		Abbreviation:	None
Date:	2/6/2025	County: Moffat		Filename:	C019-161
	TTD 1				

# **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

No. of Acre Estimated Failure Ra *Selected Replanting Work Item	es: 0.3 e: 20% s: SEEDING	Cost /Acre:         \$585.76           Cost /Acre*:         \$468.15
Initial Job Cost: \$175.73 Reseeding Job Cost: \$28.09 Total Job Cost: \$204 Job Hours: 0.50		

## HYDRAULIC EXCAVATOR WORK

Task description:	Remove and Reg	rade Stock I	Pond EP3			
Colowyo Coal Mine	Peri	nit Action:	MT9	Per	mit/Job#:	C1981019
PROJECT IDENTIE	FICATION					
Task #:       162         Date:       2/6/2025         User:       HR1	State: County:	Colorado Moffat		Abbre Fi	viation: lename:	None C019-162
Agency or orga	anization name: DR	RMS				
HOURLY EQUIPM	<u>ENT COST</u>					
Basic Machine: Attachment 1:	Cat 336D L 10'-6" ROPS Cab	Stick	H W L	Horsepower:          'eight (MT):          Shift Basis:          Data Source:	2 1 p	268 29.30 per day CRG)
Cost Breakdown:		1				
Ownership Cost Operating Cost Operator Cost	/Hour: \$75.7 /Hour: \$52.9 /Hour: \$33.8 /Hour: \$162	78 99 37 64	Utilization % NA 100 NA			
Total Elect Cost	*/Lour: \$162	64				
Loose volume: Source Source of e HOURLY PRODUC	of estimated volume: stimated swell factor: TION load bucket, swing loa Secondary Job Co	_ LCY <u>Division of</u> <u>Cat Hand</u> <u>ded, dump b</u> Basic Job Co	of Reclamation, Mi book ucket, swing empty ondition Descriptio	ining & Safety y): on: <u>SEVERE</u>		
			Cycle Time Valu	ie: $0.445$		minutes
Rated Capacity Rated Capacit Bucket Fill Facto Adjusted Capacit	y: <u>1.56</u> or: <u>0.925</u> y: <b>1.44</b>	LCY (hea Loose ma LCY	ped) terial - 1/8" to 3/8'	Bucket Size Cl ' (90 - 95%) 0.9	ass: <u>Sr</u> 925	nall
Job Condition Correction	n Factors		Site A	Altitude: <u>9600</u> f	eet	
Altitude Adj: Job Efficiency: Net Correction: Un	1.00 0.83 0.83 adjusted Hourly Unit Adjusted Hourly Unit	Source (CAT HB (1 shift/da multiplier Production: Production: Production:	$\frac{194.56}{161.49}$	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AND CO	IST	- 100000000				
Fleet size:	1 Excavate	or To	tal job time:	9.16		Hours
			- 	¢1 400		-

Task description: <b>R</b>	egrade Section 15 Pond			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFICAT	<u>FION</u>			
Task #:       163         Date:       2/6/2025         User:       HR1	State: <u>Colorado</u> County: <u>Moffat</u>		Abbreviation: Filename:	None C019-163
Agency or organizati	on name: DRMS			
HOURLY EQUIPMENT	<u>COST</u>			
Basic Machine: Cat D9T	' - 9SU			
Horsepower: 405				
Attachment 2 share	niversal	_		
Shift Paging 1 par day	ripper	_		
Data Source: (CRG)	y	_		
Data Source. (CKO)				
Cost Breakdown:				
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own. Cost/Hour:	\$18.79	<u>NA</u>		
Ripper op. Cost/Hour:	\$2.37	25		
Operator Cost/Hour:	\$38.59	NA		
Total unit Cost/Hour:   \$4'     Total Fleet Cost/Hour:   \$4'	77.26 77.26			
Total unit Cost/Hour: \$4' Total Fleet Cost/Hour: \$4' MATERIAL QUANTITIE Initial Volume: 11,300	77.26 77.26 <u>2</u> S			
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITH         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165	77.26 77.26 2 <u>S</u> CY			
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIH         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:	77.26 77.26 28 <u>CY</u> 	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIH         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:       Source of estimated swell factor	77.26 77.26 2S CY Division of Reclamati Cat Handbook	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:         Source of estimated swell factor         HOURLY PRODUCTION	77.26 77.26 2S CY Division of Reclamati or: Cat Handbook	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:       Source of estimated swell factor         HOURLY PRODUCTION       Average push distance:	77.26 77.26 28 CY Division of Reclamati Cat Handbook N 150 feet	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:       Source of estimated swell factor         Source of estimated swell factor       HOURLY PRODUCTION         Average push distance:       Unadjusted hourly production:	77.26 77.26 28 CY Division of Reclamati Or: Cat Handbook N 150 feet 910.5 LCY/hr	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:       Source of estimated swell factor         Source of estimated swell factor       HOURLY PRODUCTION         Average push distance:       Unadjusted hourly production:         Materials consistency description       1000000000000000000000000000000000000	77.26 77.26 77.26 ES CY Division of Reclamati Cat Handbook N 150 feet 910.5 LCY/hr ion: Consolidated stockp	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:       Source of estimated swell factor         Source of estimated volume:       Nource         MOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       Materials consistency descripti         Average push gradient:       5 %         Average site altitude:       7,6	$\frac{77.26}{77.26}$ $\overline{2S}$ $\overline{CY}$ $\overline{Division of Reclamati}}$ $\overline{CY}$ $\overline{CY}$ $\overline{CY}$ $\overline{Cat Handbook}$ $\overline{N}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY/hr}}$ $\overline{ion: Consolidated stockp}}$ $\frac{6}{600 \text{ feet}}$	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:         Source of estimated swell factor         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Materials consistency description         Average push gradient:       5 %         Average site altitude:       7,6         Material weight:       2,9	$77.26$ $77.26$ $77.26$ $\overline{77.26}$ $77.26$	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:         Source of estimated swell factor         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Materials consistency description         Average site altitude:       5 %         Average site altitude:       2,9         Weight description:       De	$\frac{77.26}{77.26}$ $\overline{2S}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY/hr}}$ $\frac{150 \text{ feet}}{100 \text{ feet}}$ $\frac{100 \text{ lbs/LCY}}{100 \text{ lbs/LCY}}$	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:         Source of estimated volume:         Source of estimated swell factor         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Materials consistency descripti         Average site altitude:       7,6         Material weight:       2,9         Weight description:       De         Job Condition Correction Factor	$\frac{77.26}{77.26}$ $\overline{2S}$ $\overline{2S}$ $\overline{CY}$ $\overline{Division of Reclamati}}$ $\overline{CY}$ $\overline{Cat Handbook}$ $\overline{N}$ $\frac{150 \text{ feet}}{910.5 \text{ LCY/hr}}$ $\overline{150 \text{ feet}}$ $\frac{6}{100 \text{ feet}}$ $\frac{100 \text{ lbs/LCY}}{100 \text{ lbs/LCY}}$ $\overline{Composed \text{ rock - 50\% Rock,}}$ $\overline{Or}$	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:       Source of estimated swell factor         Source of estimated volume:       Source of estimated swell factor         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       Materials consistency description         Average push gradient:       5 %         Average site altitude:       7,6         Material weight:       2,9         Weight description:       De         Job Condition Correction Factor       Operator Skill:	$   \begin{array}{r}     77.26 \\     \hline      \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline      \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline     \hline      \hline     \hline     \hline     \hline     \hline      $	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE       Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165       100         Source of estimated volume:       Source of estimated swell factor         Source of estimated volume:       Source of estimated swell factor         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Materials consistency descripti         Average push gradient:       5 %         Average site altitude:       7.6         Material weight:       2.9         Weight description:       De         Job Condition Correction Factor       Operator Skill:         Material consistency:       Material consistency:	$   \begin{array}{r}     77.26 \\     \hline     77.26 \\ \hline      \hline     \hline     \hline      \hline     \hline      \hline       $	on, Mining & Safety		
Total unit Cost/Hour:       \$4'         Total Fleet Cost/Hour:       \$4'         MATERIAL QUANTITIE         Initial Volume:       11,300         Swell factor:       1.165         Loose volume:       13,165         Source of estimated volume:         Source of estimated swell factor         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Materials consistency description         Average site altitude:       5 %         Average site altitude:       7,6         Material weight:       2,9         Weight description:       De         Job Condition Correction Factor       Operator Skill:         Material consistency:       Dozing method:	$77.26$ $77.26$ $77.26$ $77.26$ $\overline{CY}$ $Division of Reclamati CY Cx Handbook \overline{N} 150 feet 910.5 LCY/hr 150 feet 910.5 LCY/hr 6 000 feet 000 lbs/LCY composed rock - 50\% Rock, 00 0.900 1.000 1.000$	on, Mining & Safety		

Job efficience	cy: 0.83	0	(1 SHIFT/DAY)
Spoil pi	le: 0.80	0	(FND-RF)
Push gradie	nt: 0.90	3	(CAT HB)
Altitud	le: 1.00	0	(CAT HB)
Material Weig	ht: 0.79	3	(CAT HB)
Blade typ	be: 1.00	0	(PAT)
Net correction	on: 0.4279		
Adjusted unit production:	389.60 LCY/hr		
Adjusted fleet production:	389.6 LCY/hr		-

Fleet size:	1 Dozer(s)
Unit cost:	\$1.225/LCY

Total job time:	<b>33.79</b> Hours
Total job cost:	\$16,126

Colowyo Coal Mine	Perr	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	TICATION				
Task #: 164	State:	Colorado		Abbreviation:	None
Date: $\frac{2}{6}/2025$	County:	Moffat		Filename:	C019-164
User: HR1				-	0017 101
Agency or orga	nization name: DR	RMS			
HOURLY EOUIPMI	ENT COST				
Basic Machine: Ca	tt D9T - 9SU				
Horsepower: 40.	5				
Blade Type: Ser	mi-Universal				
Attachment: 1-s	shank ripper				
Shift Basis: 1 p	ber day				
Data Source: (C	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
MATERIAL QUANT	<u>FITIES</u>				
MATERIAL QUANT	<u>FITIES</u> 00				
MATERIAL QUANT Initial Volume: 7,60 Swell factor: 1.12 Loose volume: 855	<b>FITIES</b> 00 25 50 L CY				
MATERIAL QUANTInitial Volume:7,60Swell factor:1.12Loose volume:8,55	<b>FITIES</b> 00 25 <b>50</b> LCY				
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu	FITIES           00           25           50 LCY           nme:         Division of the second s	  of Reclamati	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu       Source of estimated swel	FITIES         00         25         50 LCY         ume:       Division of Cat Hand	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated swel	<b>FITIES</b> 00         25         50 LCY         ume:       Division of Cat Hand         Il factor:       Cat Hand	 of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT	EITTIES         00         25         50 LCY         nme:       Division of Cat Hand         Il factor:       Cat Hand         TION	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:	Division of Cat Hand         TION         125         125         125         125         125         125         125         125	  of Reclamati book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu       Source of estimated volu         Source of estimated swel       HOURLY PRODUCT         Average push distance:       Unadjusted hourly produ	Image: Product of the second symmetry of the second symmetr		on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ         Materials consistency dest	Image: Product of the security		on, Mining & Safety 		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ         Vaterials consistency destance:	Interpretation       Interpretation         00       25         25       50 LCY         100       10 Vision of Cat Hand         Interpretation       125 feet         1100       125 feet         1100       125 feet         1100       1055.6 LCY         escription:       Consoli		on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Vaterials consistency deal         Average push gradient:	Intries         00         25         50 LCY         ume:       Division of Cat Hand         If factor:       Cat Hand         TION         action:       1,055.6 LCY         escription:       Consoli         5 %	 of Reclamati book Y/hr idated stockp	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu       8000000000000000000000000000000000000	<b>FITIES</b> 00         25         50 LCY         ume:       Division of Cat Hand         If factor:       Cat Hand <b>TION</b> action:       1,055.6 LCY         escription:       Consoli         5 %       7,600 feet	 of Reclamati book Y/hr idated stockp	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency de:         Average push gradient:         Average site altitude:         Material weight:	<b>FITIES</b> $00$ $25$ $50$ LCY         ume:       Division of         If factor:       Cat Hand <b>TION</b> action:       125 feet         action:       1,055.6 LCY         escription:       Consoli $\frac{5 \%}{7,600 feet}$ 2,550 lbs/LCY	 of Reclamati book Y/hr idated stockp 	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency de:         Average push gradient:         Average site altitude:         Material weight:         Weight description:	<b>FITIES</b> $00$ $25$ $50$ LCY         ume:       Division of         Il factor:       Cat Hand <b>TION</b> action:       125 feet         action:       1,055.6 LCY         escription:       Consolid $\frac{5 \%}{7,600 \text{ feet}}$ 2,550 lbs/LCY         Earth - Dry packed		on, Mining & Safety   bile 1.0		
MATERIAL QUANT         Initial Volume:       7,6(         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu       Source of estimated volu         Source of estimated swel       HOURLY PRODUC'         Average push distance:       Unadjusted hourly produ         Materials consistency deal       Average site altitude:         Average site altitude:       Waterial weight:         Weight description:       Iob Condition Correction	<b>FITIES</b> $00$ $25$ $50$ LCY         ume:       Division of Cat Hand <b>TION</b> action:       125 feet         action:       1,055.6 LCY         escription:       Consolit $5 \%$ 7,600 feet $2,550$ lbs/LCY       Earth - Dry packed         n Factor       Factor	 of Reclamati book Y/hr idated stocky	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator	EITTIES $00$ $25$ $50$ LCY         ume:       Division of         Il factor:       Cat Hand         TION         action:       125 feet         action:       1,055.6 LCY         escription:       Consolid $5 %$ 7,600 feet $2,550$ lbs/LCY       Earth - Dry packed         m Factor       Skill:       0.		on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency de:         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist	EITTIES $00$ $25$ $50$ LCY         ume:       Division of Cat Hand         Il factor:       Cat Hand         TION         action:       125 feet         action:       1,055.6 LCY         escription:       Consolid $5\%$ 7,600 feet $2,550$ lbs/LCY       Earth - Dry packed $n$ Factor       Skill:       0.1         Skill:       0.1		on, Mining & Safety   bile 1.0  		
MATERIAL QUANT         Initial Volume:       7,60         Swell factor:       1.12         Loose volume:       8,55         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency de:         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist         Dozing me	<b>FITIES</b> $00$ $25$ $50$ LCY         ume:       Division of Cat Hand         Il factor:       Cat Hand <b>TION</b> action:       1,25 feet         action:       1,055.6 LCY         escription:       Consolit $5\%$ 7,600 feet $2,550$ lbs/LCY       Earth - Dry packed $n$ Factor       Skill:       0.1         string:       1.1		on, Mining & Safety		

Job efficienc	y:	0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(FND-RF)
Push gradient:		0.903	(CAT HB)
Altitude:		1.000	(CAT HB)
Material Weigh	nt:	0.902	(CAT HB)
Blade type:		1.000	(PAT)
Net correctio	on:	0.4867	
Adjusted unit production:	513	8.76 LCY/hr	
Adjusted fleet production:	513	<b>3.76</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.939/LCY

Total job time:	<b>16.64</b> Hours
Total job cost:	\$8,025

# **REVEGETATION WORK**

Task descri	ption:	Reseed Section 15 Pond with	Grazing La	nd Seed Mix	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #:	165	State: Colorado		Abbreviation:	None
Date:	2/6/2025	County: Moffat		Filename:	C019-165
User:	HR1				
Ag	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	6.3 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$3,690.29			
Reseeding Job Cost:	\$589.87		-	
Total Job Cost:	\$4,280		_	
Job Hours:	6.00		_	

## Task # 167

Page 1 of 2

ush ussenption						
Colowyo Coal Mine	Perm	mit Action:	MT9		Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION					
Task #· 167	State	Colorado			Abbreviation:	None
Date: $2/6/2025$	State.	Moffat			Filename	C019-167
User: HR1	County.	Wolldt			i nename.	017 107
Agency or organ	ization name: DR	MS				
HOURLY FOUIPME	NT COST					
Basic Machine' Cat	D8T - 8SU					
Horsepower: 310	001 000					
Blade Type: Sem	ni-Universal					
Attachment: 3-sh	ank ripper					
Shift Basis: 1 pe	er dav					
Data Source: (CR	. <u>G</u> )					
<u> </u>	,					
<u>ost Breakdown</u> :			<b>T</b> T.**	·		
Ormenskie Orest /II		¢172.22	<u>Util</u>	<u>1zation %</u>		
Ownership Cost/Hour:		\$173.32		NA		
Operating Cost/Hour:		\$109.71		100		
Ripper own. Cost/Hour:		\$14.53		INA 100		
Ripper op. Cost/Hour:		\$7.95		100		
Operator Cost/Hour:		\$38.59		NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$344.10 <b>\$344.10</b>					
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 23.59	\$344.10 <b>\$344.10</b> ITIES 05					
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 23,59 Swell factor: 1.000	\$344.10 <b>\$344.10</b> ITIES 95					
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59	\$344.10 <b>\$344.10</b> <b>ITIES</b> 95 95 95 95 1025 1025					
Fotal unit Cost/Hour:         Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59	\$344.10 \$344.10 ITIES 95 95 95 10 95 10 95 10 10 10 10 10 10 10 10 10 10			0.5.5.4		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum	\$344.10 <b>\$344.10</b> <b>ITIES</b> 95 95 95 LCY ne: Division of footors Cot Hond		on, Mining	& Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell	\$344.10 <b>\$344.10</b> <b>ITIES</b> 95 95 95 LCY ne: Division of factor: Cat Handle	 of Reclamati book	on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$344.10 \$344.10 ITIES 95 95 95 95 95 95 95 95 95 95	  of Reclamati book	on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$344.10 \$344.10 ITIES 95 95 95 10 95 LCY ne: Division of factor: Cat Handl TION	  of Reclamati book	on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:	\$344.10 <b>\$344.10</b> <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95	  of Reclamati book	 on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95	 of Reclamati book hr	on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destribution	\$344.10 \$344.10 ITIES 95 95 95 95 95 95 95 95 95 95		on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95	 of Reclamati book hr idated stockp	on, Mining	& Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95		on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95	 of Reclamati book hr idated stockp	on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$344.10 <b>\$344.10</b> <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95	 of Reclamati book hr idated stockp	on, Mining	& Safety		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95		on, Mining 	& Safety Source (AB.AVG.)		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consistence	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95		on, Mining	& Safety & Source (AB.AVG.) (CAT HB)		
Fotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       23,59         Swell factor:       1.000         Loose volume:       23,59         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consiste         Dozing met	\$344.10 \$344.10 <b>ITIES</b> 95 95 95 95 95 95 95 95 95 95		on, Mining	& Safety & Source (AB.AVG.) (CAT HB) (GEN.)		

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pile:		1.000	(DOZ-OC)
Push gradient:		1.115	(CAT HB)
Altitude:		1.000	(CAT HB)
Material Weight:		1.438	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	on:	1.1977	
Adjusted unit production:	75	9.70 LCY/hr	
Adjusted fleet production:	75	9.7 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.453/LCY

Total job time:	<b>31.06</b> Hours
Total job cost:	\$10,687

# **REVEGETATION WORK**

Task descrip	ption:	Reseed East PIt Roads and S	Sect 3 Pond B	orrow Area	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	ATION			
Task #:	168	State: Colorado		Abbreviation:	None
Date:	2/6/2025	County: Moffat		Filename:	C019-168
User:	HR1				
Ag	ency or organi	zation name: DRMS			

## **FERTILIZING**

# Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	<u>19.5</u> 20%	_ Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$11,422.32			
Reseeding Job Cost:	\$1,825.79			
Total Job Cost:	\$13,248			
Job Hours:	19.50			

Task description:	Regrade 7	<b>Copsoil Pile 9A</b>			
: <u>Colowyo Coal Mine</u>	2	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTI	FICATION				
Task #: 170		State: Colorado		Abbreviation:	None
Date: $\frac{1}{2}$	Co	ounty: Moffat		Filename:	170
User: HR1					
Agency or org	ganization name	: DRMS			
HOURLY EQUIPM	<u>IENT COST</u>				
Basic Machine:	Cat D8T - 8SU				
Horsepower: 3	10				
Blade Type: S	emi-Universal				
Attachment: <u>N</u>	JA				
Shift Basis: 1	per day		_		
Data Source: (	UKG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour	•	\$173.32	NA		
Operating Cost/Hour	:	\$76.80	70		
Ripper own. Cost/Hour	: 	\$0.00	NA		
Ripper op. Cost/Hour	••	\$0.00	0		
Operator Cost/II	••	\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$288.70 \$288.70				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	* \$288.70 \$288.70 NTITIES				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64	* \$288.70 \$288.70 ************************************				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated volume       64	<u>\$288.70</u> <b>\$288.70</b> <b>\$288.70</b> <b>\$TITIES</b> 5 5 5 5 5 1000 5 1000 15 100 100	ap 28 and ARR			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated volume       64	\$288.70         \$288.70         \$288.70         \$288.70         \$5         000         \$5 LCY         lume:       M         ell factor:       Ca	ap 28 and ARR tt Handbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated vol       50         Source of estimated sw       HOURLY PRODUCE		ap 28 and ARR tt Handbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 64 Swell factor: 1.0 Loose volume: 64 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODUC	\$288.70         \$288.70         \$288.70         \$288.70         \$5         000         \$5 LCY         lume:       M         ell factor:       Ca         CTION         100	ap 28 and ARR at Handbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume:64 Swell factor:1. Loose volume:64 Source of estimated vo Source of estimated vo Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc	$\frac{\$288.70}{\$288.70}$ $\frac{\$288.70}{\$288.70}$ $\frac{\$5}{5}$ $\frac{5}{5}$ $\frac{100}{5}$	ap 28 and ARR at Handbook feet 6 LCY/hr			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated voi       64         Source of estimated sw       64         HOURLY PRODUC       Average push distance:         Unadjusted hourly proc       64	$\frac{\$288.70}{\$288.70}$ $\frac{\$288.70}{\$288.70}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{\$5}{5}$ $\frac{100}{\$5}$ $\frac{100}{\$52.4}$ $\frac{100}{\$52.4}$ $\frac{100}{\$52.4}$ $\frac{100}{\$52.4}$	ap 28 and ARR at Handbook feet 6 LCY/hr Compacted fill or e	  mbankment 0.9		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated vo       64         Source of estimated sw       64         HOURLY PRODUC       Average push distance:         Unadjusted hourly proc       64         Average push gradient:       4         Average push gradient:       4	$\frac{\$288.70}{\$288.70}$ $\frac{\$288.70}{\$288.70}$ $\frac{\$5}{5}$ $\frac{5}{5}$ $\frac{100}{5}$	ap 28 and ARR at Handbook feet 6 LCY/hr Compacted fill or e	  mbankment 0.9		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated vol       64         Materials consistency of       64         Average push distance:       0         Materials consistency of       64         Average push gradient:       64         Average site altitude:       64		ap 28 and ARR the Handbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:         64         Swell factor:         1.0         Loose volume:         64         Source of estimated volume:         Source of estimated volume:         Average push distance:         Unadjusted hourly prodi         Average push gradient:         Average site altitude:         Material weight:         Weight description:	\$288.70         \$288.70         \$288.70         \$288.70         \$5         000         \$5 LCY         lume:       M         ell factor:       Ca         CTION         duction:       852.4         elescription:       100 ±         0 %       7,500 feet         2,650 lbs/L       Decompose	ap 28 and ARR ap 28 and ARR at Handbook feet 6 LCY/hr Compacted fill or e	  mbankment 0.9		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:         64         Swell factor:         1.0         Loose volume:         64         Source of estimated voi         Source of estimated voi         Source of estimated sw         HOURLY PRODUC         Average push distance:         Unadjusted hourly proc         Materials consistency of         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction		ap 28 and ARR ap 28 and ARR at Handbook feet 6 LCY/hr Compacted fill or e CY CY ed rock - 25% Rock			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated volume:       64         Source of estimated volume:       64         Source of estimated volume:       64         Average push distance:       0         Unadjusted hourly prodivide       0         Average push gradient:       0         Average site altitude:       0         Material weight:       0         Weight description:       0         Job Condition Corrective       0	$ \begin{array}{c}                                     $	ap 28 and ARR ap 28 and ARR it Handbook feet 6 LCY/hr Compacted fill or e CY cd rock - 25% Rock 0.750			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated volume:       64         Average push distance:       0         Unadjusted hourly prod       64         Average push gradient:       Average site altitude:         Material weight:       0         Weight description:       10b Condition Correction         Operator       0         Material const       0	$ \begin{array}{c}                                     $	ap 28 and ARR ap 28 and ARR at Handbook feet 6 LCY/hr Compacted fill or e CY cY cd rock - 25% Rock 0.750 0.900			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN         Initial Volume:       64         Swell factor:       1.0         Loose volume:       64         Source of estimated sw       90         Average push distance:       00         Unadjusted hourly proof       0         Materials consistency of       0         Average push gradient:       Average site altitude:         Material weight:       0         Weight description:       10         Job Condition Correction       0         Material consi       0         Source of consistency of       0	$\begin{array}{c} & \underline{\$288.70} \\ \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \$288.70 \\ \hline \$288.70 \\ \hline  \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline \$288.70 \\ \hline \hline $1000 \hline$	ap 28 and ARR tt Handbook feet 6 LCY/hr Compacted fill or e CY ed rock - 25% Rock 0.750 0.900 1.200			

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weight:		0.868	(CAT HB)
Blade type:		1.000	(PAT)
Net correction:		0.4668	
Adjusted unit production:	39	7.99 LCY/hr	
Adjusted fleet production: <b>39</b>		7.99 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.725/LCY

Total job time:	<b>2.32</b> Hours
Total job cost:	\$668

## Task # 171

1	8				
Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #: 171	State:	Colorado		Abbreviation:	None
Date: 4/2/2025	County:	Moffat		Filename:	171
User: HR1				=	
Agency or organ	nization name:	RMS			
HOURLY EQUIPME	<u>ENT COST</u>				
Basic Machine: Cat	D9T - 9SU				
Horsepower: 405	5				
Blade Type: Sen	ni-Universal				
Attachment: 1-sł	hank ripper				
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$15.77	NA		
Ripper op. Cost/Hour:		\$10.35	100		
Operator Cost/Hour:		\$38.59	NA		
Total Fleet Cost/Hour:	\$482.22 TTIES				
Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,23: Swell factor: 1.11:	\$482.22 <u>TTIES</u> 5 5				
Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:	\$482.22 TTIES 5 5 2 LCY				
Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell	\$482.22 TTIES 5 5 2 LCY me: Division factor: Cat Hand	of Reclamati	on, Mining & Safety, Av	g 9 in	
Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell	\$482.22 TTIES 5 5 2 LCY me: Division 1 factor: Cat Hand	of Reclamati	on, Mining & Safety, Av	g 9 in	
Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       1000000000000000000000000000000000000	\$482.22 TTIES 5 5 2 LCY me: Division 1 factor: Cat Hand FION	of Reclamati lbook	on, Mining & Safety, Av	g 9 in	
Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur       4,72:         Source of estimated swell       4000000000000000000000000000000000000	\$482.22 TTIES 5 5 2 LCY me: Division 1 factor: Cat Hand FION 100 feet	of Reclamati	on, Mining & Safety, Av	g 9 in	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product	\$482.22 <b>TTIES</b> 5           2 LCY           me:         Division           1 factor:         Cat Hand <b>EION</b> ction:         1,243.2 LC	of Reclamati book	on, Mining & Safety, Av	g 9 in	
Fotal Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Materials consistency des	\$482.22 <b>TTIES</b> 5           5           2 LCY           me:         Division           1 factor:         Cat Hand <b>FION</b> ction:         100 feet           1,243.2 LC           scription:         Consol	of Reclamati lbook Y/hr	<u>on, Mining &amp; Safety, Av</u>	g 9 in	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur       4,72:         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Jnadjusted hourly product       Materials consistency destance	\$482.22 <b>TTIES</b> 5           5           2 LCY           me:         Division           1 factor:         Cat Hand <b>CION</b> ction:         100 feet	of Reclamati lbook Y/hr lidated stockg	on, Mining & Safety, Av	<u>g 9 in</u>	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Vaterials consistency des         Average push gradient:	\$482.22         TTIES         5         2 LCY         me:       Division         1 factor:       Cat Hand         CION         ction:       100 feet         1,243.2 LC         scription:       Consol         0 %	of Reclamati lbook Y/hr lidated stockg	on, Mining & Safety, Av	<u>g 9 in</u>	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Vaterials consistency des         Average push gradient:         Average site altitude:	\$482.22         TTIES         5         5         2 LCY         me:       Division         1 factor:       Cat Hand         FION         ction:       100 feet	 of Reclamati lbook Y/hr lidated stockp	 on, Mining & Safety, Av    pile 1.0	g 9 in	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur       4,72:         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Jnadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Material weight:	$\begin{array}{r} & \begin{array}{r} & \end{array} \\ & \end{array} \\ & \end{array} \\ \end{array} \\ \hline \\$	 of Reclamati lbook Y/hr lidated stockp	<u>on, Mining &amp; Safety, Av</u>	g 9 in	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Vaterials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:	$\begin{array}{r} & \begin{array}{r} & \end{array} \\ \end{array} \\ \hline \end{array} $ \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array}  \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array} \\ \hline \end{array}  \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array} \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array} \\ \end{array}  \\ \hline  \\  \\	 of Reclamati lbook Y/hr lidated stockp	 on, Mining & Safety, Av   bile 1.0	<u>g 9 in</u>	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Vaterials consistency des         Average push gradient:         Average site altitude:         Vaterial weight:         Veight description:         ob Condition Correction	\$482.22         TTIES         5         5         2 LCY         me:       Division         1 factor:       Cat Hand         FION         1 factor:       100 feet         ction:       1,243.2 LC         scription:       Consol         0 %       7,600 feet         2,100 lbs/LCY       Earth - Loam         Factor       Factor	 of Reclamati lbook Y/hr lidated stockp	on, Mining & Safety, Av	<u>g 9 in</u>	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23:         Swell factor:       1.11:         Loose volume:       4,72:         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Vaterials consistency des         Average push gradient:         Average site altitude:         Vaterial weight:         Weight description:         ob Condition Correction         Operator S	\$482.22         TTIES         5         5         2 LCY         me:       Division         1 factor:       Cat Hand         FION         1 factor:       100 feet         ction:       1,243.2 LC         scription:       Consol         0 %       7,600 feet         2,100 lbs/LCY       Earth - Loam         Factor       Skill:       0	 of Reclamati lbook Y/hr lidated stockp	on, Mining & Safety, Av	g 9 in	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23.         Swell factor:       1.11.         Loose volume:       4,72.         Source of estimated volur       5000000000000000000000000000000000000	$\begin{array}{r c c c c c c c c c c c c c c c c c c c$	 of Reclamati lbook Y/hr lidated stockp  	on, Mining & Safety, Av	g 9 in	
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,23.         Swell factor:       1.11.         Loose volume:       4,72.         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Jnadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         ob Condition Correction         Operator S         Material consistency	$\begin{array}{r c c c c c c c c c c c c c c c c c c c$		on, Mining & Safety, Av	g 9 in	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.8180	
Adjusted unit production: 1,0	016.94 LCY/hr	
Adjusted fleet production: 10	16.94 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.474/LCY

Total job time:	<b>4.64</b> Hours
Total job cost:	\$2,239

# **REVEGETATION WORK**

Task descrip	otion:	Reseed 69 kV power line roa	d		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION			
Task #:	172	State: Colorado		Abbreviation:	None
Date:	4/2/2025	County: Moffat		Filename:	172
Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimat *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	3.5 20% SEEDING	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
Initial Job Cost:	\$2,050.16		_	
Reseeding Job Cost:	\$327.71			
Total Job Cost:	\$2,378			
Job Hours:	4.00			

## Task # 173

Colowyo Coal Mir	ne	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENT	TIFICATIO	N				
Task #: 173		State:	Colorado		Abbreviation:	None
Date: 4/2/202	.5	County:	Moffat		Filename:	C019-173
User: HR1		-			-	
Agency or o	rganization n	ame: DF	RMS			
HOURLY EQUIP	MENT COS	<u>ST</u>				
Basic Machine:	Cat D9T - 9S	U				
Horsepower:	405					
Blade Type:	Semi-Univer	sal				
Attachment:	1-shank rippe	er				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
*				Utilization %		
Ownership Cost/Hor	ur:		\$253.16	NA		
Operating Cost/Hor	ur:		\$164.35	100		
Ripper own. Cost/Hor	ur:		\$15.77	NA		
Ripper op. Cost/Hor	ur:		\$10.35	100		
Operator Cost/Hor	ur:		\$38.59	NA		
MATERIAL QUA	NTITIES					
MATERIAL QUA Initial Volume: <u>6</u> Swell factor: 1	. <b>NTITIES</b> 5,413 1.115					
MATERIAL QUA Initial Volume: <u>6</u> Swell factor: <u>1</u> Loose volume: <u>7</u>	.NTITIES 5,413 1.115 7,150 LCY					
MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated s	<b>NTITIES</b> 5,413 1.115 <b>7,150</b> LCY rolume: well factor:	Division Cat Hand	of Reclamati	on, Mining & Safety, A	vg 9 in	
MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated sy	<b>NTITIES</b> 5,413 1.115 <b>7,150</b> LCY rolume: well factor:	Division Cat Hand	of Reclamati	on, Mining & Safety, A	vg 9 in	
MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated s HOURLY PRODU	.NTITIES         5,413         1.115         7,150 LCY         volume:         well factor:         JCTION         e:	Division Cat Hand	of Reclamati	on, Mining & Safety, A	vg 9 in	
MATERIAL QUA Initial Volume: <u>6</u> Swell factor: <u>1</u> Loose volume: <u>7</u> Source of estimated v Source of estimated sv HOURLY PRODU Average push distance Inadjusted bourly pro-	.NTITIES           5,413           1.115           7,150 LCY           colume:           well factor:           JCTION           e:           1	Division Cat Hand	 of Reclamati lbook	on, Mining & Safety, A	vg 9 in	
MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated so HOURLY PRODU Average push distance Jnadjusted hourly pro	NTITIES           5,413           1.115           7,150 LCY           rolume:           well factor:           JCTION           e:         1           oduction:         1	Division Cat Hand 00 feet ,243.2 LC	of Reclamati lbook Y/hr	on, Mining & Safety, A 	<u>vg 9 in</u>	
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MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated s HOURLY PRODU Average push distance Jnadjusted hourly pro Materials consistency Average push gradien Average site altitude:	NTITIES           5,413           1.115           7,150 LCY           colume:           well factor:           JCTION           e:         1           oduction:         1           description:           at:         0 %	Division Cat Hand .00 feet .,243.2 LC Consol	 of Reclamati lbook Y/hr lidated stockp	on, Mining & Safety, A 	vg 9 in	
MATERIAL QUA         Initial Volume:       6         Swell factor:       1         Loose volume:       7         Source of estimated v         Source of estimated s         HOURLY PRODU         Average push distance         Unadjusted hourly provident         Average push gradien         Average site altitude:         Vaterial weight:	.NTITIES         5,413         1.115         7,150 LCY         rolume:         well factor:         JCTION         e:       _1         oduction:       _1         r description:         at:       _0 %         _7,600 fa         _2,100 ll	Division Cat Hand 00 feet ,243.2 LC Consol eet 	 of Reclamati lbook Y/hr lidated stockp 	on, Mining & Safety, A   oile 1.0	vg 9 in	
MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated s HOURLY PRODU Average push distance Unadjusted hourly provide Materials consistency Average push gradien Average site altitude: Material weight: Weight description:	.NTITIES         5,413         1.115         7,150 LCY         rolume:         well factor:         JCTION         e:       _1         oduction:       _1         r description:         nt:       0 %         7,600 fe         _2,100 lk         _Earth -	Division Cat Hand .00 feet .243.2 LC Consol eet  bs/LCY Loam	 of Reclamati lbook Y/hr lidated stockp	on, Mining & Safety, A   bile 1.0	vg 9 in	
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MATERIAL QUA Initial Volume: 6 Swell factor: 1 Loose volume: 7 Source of estimated v Source of estimated s HOURLY PRODU Average push distancy Average push distancy Average push gradien Average site altitude: Material weight: Weight description: Opera	.NTITIES         5,413         1.115         7,150 LCY         rolume:         well factor:         JCTION         e:       1         oduction:       1         cdescription:       1         cd	Division Cat Hand 00 feet ,243.2 LC _Consol eet bs/LCY Loam 0.	 of Reclamati lbook Y/hr lidated stockp 	on, Mining & Safety, A   bile 1.0   Source (AB.AVG.)	<u>vg 9 in</u>	
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Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.8180	
Adjusted unit production: 1,0	016.94 LCY/hr	
Adjusted fleet production: 10	16.94 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.474/LCY

Total job time:	<b>7.03</b> Hours
Total job cost:	\$3,391

# **REVEGETATION WORK**

Task descri	ption:	Reseed 69 kV power line roa	d		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #: Date: User:	174 4/2/2025 HR1	State:     Colorado       County:     Moffat		Abbreviation:	None 174
Ag	ency or organi	zation name: <u>DRMS</u>			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	<b>40.00</b>
Total Mulch Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre				\$0.00	

Estimat	No. of Acres:	5.3	Cost /Acre:	\$585.76
Estillat *Salastad Daplanti	ng Work Itoms:	20%	Cost/Acie*.	\$406.13
· Selected Repland	ing work menns.	SEEDING		
Initial Job Cost:	\$3,104.53			
Reseeding Job Cost:	\$496.24			
Total Job Cost:	\$3,601			
Job Hours:	5.00			
#### **DEMOLITION WORK**

Т	Task description:	Remove Co	llom Haul Road	and Facility	Culverts (MR203)	
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/.	lob#: <u>C1981019</u>
<u>PROJE(</u>	CT IDENTIFICATION	<u>N</u>				
Task #:	401	State:	Colorado		Abbreviation:	None
Date:	2/6/2025	County:	Moffat		Filename:	C019-401
User:	HR1	-				
	Agency or organiza	tion name:	DRMS			

Location adjustment: 95.50 %

#### **UNIT COSTS**

#### Structure or Item **Demolition Menu** Unit **Total Cost** Dimensions Quantity Unit Selection Description Cost Remove 24" Culverts 24" 397.00 Pipe, corrugated metal LF \$4,206.25 \$10.60 (CMP) - 24 in. diameter pipe Pipe, corrugated metal \$16.96 Remove 36" Culverts 36" 7,030.00 LF \$119,230.91 (CMP) - 36 in. diameter pipe Remove 60" Culverts 60" Pipe, corrugated metal 629.00 LF \$33.06 \$20,796.38 (CMP) - 60 in. diameter pipe Pipe, corrugated metal Remove 12" Culverts 12" 160.00 \$5.91 \$945.38 LF (CMP) - 12 in. diameter pipe Pipe, corrugated metal Culverts 71 & 72 12" 100.00 LF \$5.91 \$590.86 (CMP) - 12 in. diameter (TR160) pipe Demo GD-3 Culvert 24" Pipe, corrugated metal 75.00 \$10.60 LF \$794.63 (CMP) - 24 in. diameter (TR162) pipe

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	26.00	(unadjusted):	\$146,564.41	location):	\$139,969.01

#### **DEMOLITION WORK**

r	Task description:	Demo Collom Facilities and Haul Road Crossing (MR223, MR225)						
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/J	lob#: <u>C1981019</u>		
PROJE	CT IDENTIFICATION	<u>N</u>						
Task #:	402	State:	Colorado		Abbreviation:	None		
Date:	2/6/2025	County:	Moffat		Filename:	402		
User:	HR1							
	Agency or organiza	tion name:	DRMS					

#### UNIT COSTS

#### Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Demo Blasters Building	50' x 80' x 19'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	76,000.00	CF	\$0.24	\$18,498.40
Primary Crusher (Task #517)	420'	OBSOLETE-Conveyor, elevated, including supports - 8 ft. W x 10 ft. H housing	420.00	LF	\$53.42	\$22,436.40
Raw Water Pump Building	20' x 32' x 14'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	13,440.00	CF	\$0.24	\$3,271.30
Pump Building Vault	6' x 8' x 18"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 50 ft. push	48.00	SF	\$2.27	\$108.74
Demo Haul Road Crossing (circular area)	48' x 24' x 217'	Bldg. (MN) demo./on- site disposal in excavated pit - Max. 10,000 ft. haul	196,337.00	CF	\$0.35	\$68,246.74
Demo Concrete Pad #1	110' x 100' x 1.875'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - No reinforcing	764.00	CY	\$110.50	\$84,422.00
Demo Concrete Pad #2	10' x 32' x 1.875'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - No reinforcing	223.00	CY	\$110.50	\$24,641.50
Demo Facilities Concrete	N/A	Floor, concrete, demolition only, 6 in. thick - No reinforcing	7,750.00	SF	\$1.77	\$13,717.50
Water Tank	35' dia	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	279,941.00	CF	\$0.33	\$91,988.61
ANFO Silo #1	10' dia x 20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	6,283.00	CF	\$0.33	\$2,064.59
ANFO Silo #2	10' dia x 20'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	6,283.00	CF	\$0.33	\$2,064.59
ANFO Silo #3	10' dia x 20'	Bldg. (MN) demo./on-	6,283.00	CF	\$0.33	\$2,064.59

Communications Building	20' x 20' x 12'	site disposal in existing pit or cut - Max. 10,000 ft. haul Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	4,800.00	CF	\$0.24	\$1,168.32
Remove Taylor Creek	150'	Pipe, steel, welded	150.00	LF	\$12.24	\$1,836.00
Elevated Pipe		connections - 10 in.				
Remove Elevated Pipe Footers	1.5' x 2'	diameter pipe Footing, concrete, average reinforcing - 1.5 ft. x 2 ft.	16.00	LF	\$6.62	\$105.85
15 Collom Power	20'	Utility Poles, Wood 20'	15.00	EA	\$271.50	\$4,072.50
Poles		to 0' high (each pole)				
Communication	8' x 10' x 12'	Bldg. (SN) demo./on-	960.00	CF	\$0.24	\$233.66
Building - Collom		site disposal in existing				
Substation		pit or cut - Max. 10,000				
		ft. haul				
Communication	8' x 10' x 12'	Bldg. (SN) demo./on-	960.00	CF	\$0.24	\$233.66
Building - Security		site disposal in existing				
Area		pit or cut - Max. 10,000				
		ft. haul				
Main Communication	100'	Powerline or utility line	3.00	EA	\$2,244.00	\$6,732.00
Tower		- Structural Steel Box				
		Type Frame Structure				
		Dismantle and Dispose				
Main Communication	25 CY	Demo. and on-site	4.00	LF	\$13.59	\$54.37
Tower Pad		disposal in existing pit,				
		2.0 ft. x 3 ft Max. 50				
		ft. push			<b>**</b>	** * * * * * *
Meteorological	30'	Powerline or utility line	1.00	EA	\$2,244.00	\$2,244.00
Station		- Structural Steel Box				
		Type Frame Structure				
Mata anala ai aal	A CV	Dismantie and Dispose	2.00	LE	\$4.52	¢0.07
Station Dod	401	disposal in existing nit	2.00	LF	\$4.35	\$9.00
Station Fau		$1.0 \text{ ft} \times 2 \text{ ft} \text{ May} 50$				
		ft nuch				
Remove Power Lines	16 897'	OBSOLETE - Powerline	16 897 00	LE	\$0.09	\$1 520 73
Remove I ower Emes	10,077	or utility line line	10,077.00		ψ0.09	ψ <b>1</b> ,520.75
		disposal only				
Remove Collom Haul	9.617'	OBSOLETE - Powerline	9.617.00	LF	\$0.09	\$865.53
Road Power Lines	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	or utility line. line	,,		+ • • • • •	
		disposal only				
Remove Crew Trailer	8' x 24' x 12'	Bldg. (SN) demo./on-	2,304.00	CF	\$0.24	\$560.79
		site disposal in				
		excavated pit - Max.				
		10,000 ft. haul				
2,000 Gal. Diesel	2000 gal.	Haul tank to certified	1.00	EA	\$760.00	\$760.00
Tank		salvage dump - 3,000 to				
		5,000 gal. tank				
- Remove Remaining	N/A	Remove sludge, water,	1.00	EA	\$259.50	\$259.50
Fuel		and rem. product from				
		tank - 3,000 to 5,000				
	1	gal				

		Subtotal		<b>Total Cost</b>	
Job Hours:	60.00	(unadjusted):	\$354,180.93	(adjusted for	\$338,242.79

location):

#### BULLDOZER RIPPING WORK

Task description:	Rip 29,458' of Collom Haul	Road		
Site: Colowyo Coal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJECT IDENTIF	<b>ICATION</b>			
Task #: 403	State: Colorado		Abbreviation:	None
Date: 3/11/2025	County: Moffat		Filename	403
User: HR1				
Agency or orga	nization name: DRMS			
HOURLY EQUIPMI	ENT COST			
Basic Machine	e: OBSOLETE - Cat D11R - 11SU		Horsepower:	850
Ripper Attachmen	t: 1-Shank Ripper		Shift Basis: 1	l per day
			Data Source:	(CRG)
Cost Breakdown:				
0	anahin Cont/Haum	¢10.00	Utilization %	
	rating Cost/Hour:	\$10.00	<u> </u>	
Rinner Owne	ership Cost/Hour	\$10.00	NA	
Ripper Own	rating Cost/Hour:	\$16.65	100	
Op	erator Cost/Hour:	\$38.59	NA	
Tota	Unit Cost/Hour:	\$102.68		
Total	Elaat Cost/Hour: \$20	5 35		
MATERIAL QUANT	T <b>ITIES</b> Sel	lected estimating n	nethod: Area	
Alternate Methods:				
nic: NA	Bank Volume:	NA	BCY	NA
ea: 18.90 ac	res Rip Depth (ft):	1.50	Volume: 45,738	BCY of
Source	e of estimated quantity: Table	7 Exh 13B_T_20	)	
Source		7 EXII. 15D-1-20	)	
HOURLY PRODUC	<u>FION</u>			
Seismic:				
	Seismic Velocity:	NA	feet/second	
Area:				
<u>1 11 0 0 1</u>	Average Ripping Depth:	3.00	feet/pass	
	Average Ripping Width:	7.94	feet/pass	
	Average Ripping Length:	300.00	feet/pass	
	Average Dozer Speed:	88.00	feet/minute	
	Average Maneuver Time:	0.25	minutes/pass	
	Production per unit area:	0.897	acres/hour	
Job Condition Correction	n Factors			
Unadjusted	d Hourly Unit Production:	0.897	Acres/hr	
	Site Altitude:	7,500	feet	
	Altitude Adj:	1.00	(CAT HB)	
	Job Efficiency:	0.83	(1 shift/day)	
	Net Correction:	0.83	multiplier	
A A	Adjusted Hourly Unit Production: djusted Hourly Fleet Production:	0.74 <b>1.49</b>	Acres/hr Acres/hr	
JOB TIME AND CO	<u>ST</u>			
Fleet size:2	C Grader(s)	Total job time:	12.70	Hours
Unit cost: \$127	967 Por soro	Total ich acet	\$7 607	

Site: Colowyo Coal Mi	ne	Permit Actio	on: <u>MT9</u>	· · ·	Permit/Job#: <u>C</u>	1981019
PROJECT IDENT	<b>TIFICATION</b>					
Task #: $404$	<u>)))5</u>	State: Colora	ado	Ab	breviation: No	one 4
User: HR1	<u>125</u> C	ounty: <u>Molla</u>	l		Filename: 404	4
	·					
Agency or o	organization nam	e: DRMS				
HOURLY EQUIP	MENT COST			Shift bas	is: <u>1 per day</u>	
		]	Equipment Descri	iption		
Tr	uck Loader Tean	n - Truck: KO	MATSU 830E	50		
Suppo	rt Equipment -Lo	ad Area: Cat	D11T - 11U	50		
	-Du	mp Area: Cat	D11T - 11U			
Road Ma	intenance – Moto	r Grader: <u>CA</u>	Г 16М	~ ~ ~		
	-Wat	er Truck: Wat	ter Tanker, 14,000	) Gal.		
Cost Breakdown:	Truck/Load	der Team	Support ]	Equipment	Maintenar	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine	100	100	100	100	25	25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Maint:	\$423.94
Total work team cost	/hour: <u>\$4,415.1</u>	2				
Initial volume: Loose volume:	<u> </u>	9 CCY LCY	Swell	factor: <u>1.125</u>		
Sou	rce of estimated	volume: Exhil	bit 13C			
Source of	of estimated swel	l factor: Cat H	Handbook			
	Material Purcha	se Cost: $\frac{$0.00}{$0.00}$	)			
	100		)			
HOURLY PROI	<b>DUCTION</b>					
<u>Truck Capacity:</u> <u>Truck Payload (weig</u> Material we Descrit	ht) Basis: eight: <u>2,550</u> ption: Earth - 1	Drv nacked	Pounds/LCY			
Rated Pay	load: $492,200$		Pounds			
2						

Heaped Volume:	153.00					
	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	of Loader Passes.	174 90	ICY	
Loading Tool Canacity	Truck Volume	Dased on Number C	n Loader 1 asses.	1/4./0	LC1	
Louding 1001 Cupacity			Buc	ket Size Class: N	А	
Rated Capacity:	53.000	LCY (heaped)	Duch			
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	-120%) 1.100		-
Adjusted Capacity:	58.300	LCY	X	,		-
Job Condition Corrections:		S	ite Altitude (ft.):	7600 feet		
	- Truck	Loader	Source			
Altitude Adi:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
	0.020	0.012				
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Numbe	r of Loading Tool Pa	asses Required to	Fill Truck:	3 r	basses
Excavators and Front Shove	ls:	C	Ĩ		1	
Malia Cal Time	. Ish Caralitia					
Machine Cycle Time v	s. Job Conditio	n Kaung: NA				
Selected Value v	within this Basi	ic Rating: NA				
Selected Value v Track Loaders –	within this Basi Material Desci	ic Rating: NA				
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):	within this Basi Material Descr	ic Rating: NA				
Selected Value v Track Loaders – Cycle Time Elements (min.):	within this Basi	ic Rating: NA		0.100		
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	vithin this Basi Material Descr M	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100	)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	vithin this Basi Material Descr  Unadjusted Ba	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, r	Dump: 0.100	.725 mint	ıtes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	vithin this Basi Material Descr  Unadjusted Ba	ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.)		ıtes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	vithin this Basi Material Descr N Unadjusted Ba  Material 6" a	ic Rating: <u>NA</u> iption: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti und over diameter 0.0	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.030		ites
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	vithin this Basi Material Descr 	ic Rating: <u>NA</u> ription: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti <u>and over diameter 0.0</u> dozer piled 10 ft. hig	me (load, dump, r )3 gh and up 0.00	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	utes 
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow	ic Rating: <u>NA</u> ription: <u>NA</u> Aaneuver: <u>NA</u> asic Loader Cycle Ti <u>and over diameter 0.0</u> <u>dozer piled 10 ft. hig</u> nership of trucks and	me (load, dump, r )3 gh and up 0.00 d loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB)	utes 
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope	ic Rating: <u>NA</u> iption: <u>NA</u> faneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and pration -0.04	me (load, dump, r )3 gh and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites   
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Munadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and paration -0.04 get 0.00	me (load, dump, 1 )3 gh and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes   
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti und over diameter 0.0 dozer piled 10 ft. hig nership of trucks and pration -0.04 get 0.00 Net Cycle Tin	me (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes    
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> ription: <u>NA</u> Anneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and pration -0.04 get 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes 
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr M Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment: ler Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes   
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> ription: <u>NA</u> Aaneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader O.C dozer piled 10 ft. hig nership of trucks and paration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	Ites   
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> ription: <u>NA</u> Maneuver: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	me (load, dump, r )3 gh and up 0.00 1 loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	utes     Minute
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iption: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti asic Loader 10 ft. hig nership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Adjusted Adjusted	Dump:       0.100         maneuver):       0.         Factor (min.)       0.030         0.000       -0.040         -0.040       0.000         -0.050       0.675         1.450	.725       minu         Source       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         0.800       1.480	utes      Minute
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	vithin this Basi Material Descr Munadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iription: <u>NA</u> iription: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes	me (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck: Gime per Truck: Adjusted Adjusted	Dump:       0.100         maneuver):       0         Factor (min.)       0.030         0.000       0.000         -0.040       0.000         -0.050       0.675         1.450       1.450         for site altitude:	.725minuSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.8001.4801.200	utes 
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: & Maneuver and Dump Time:	vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	ic Rating: <u>NA</u> iription: <u>NA</u> asic Loader Cycle Ti asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 get 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes Minutes	me (load, dump, r )3 gh and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Fime per Truck: Adjusted Adjusted Adjusted	Dump:       0.100         maneuver):       0         Factor (min.)       0.030         0.030       0.000         -0.040       0.000         -0.050       0.675         1.450	.725       minu         Source       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         0.800       1.480         1.200       1.200	utes 

Page 3 of 3

Haul	Route:							
Seg	# Ha (Ft	ul Distance )	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	104	45.00	2.00	2.00	4.00	1786	0.878	
Retu	rn Route:				Haul Time:	0.878	minutes	
Seg	# Ha (Ft	ul Distance )	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	11'	72.00	9.00	2.00	11.00	1734	1.079	
<b>T</b> 1'				Total Tru	Return Time: ck Cycle Time:	<u>1.079</u> 5.437	minute	28 28
Loading	Production Production	t 1 <u>4,603.46</u> 1	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		1,930.25	LCY/Hour		Adjusted for j	ob efficiency:	1,602.11	LCY/Hour
Optimal No.	of Trucks	:2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team production	on: 3,204	4.22 LCY	/Hour
			Adjusted sing	le truck/loade	er team production	on: $3,20^{4}$	4.22 LCY	/Hour
			Adjusted multip	le truck/loade	er team production	on: <u>3,204</u>	<b>1.22</b> LC1	Hour
JOE	B TIME	AND COST						
Ι	Fleet size:	1	Team(s)	- -	Fotal job time:	138.5	5 <b>3</b> Ho	ours
1	Unit cost:	\$1.378	/LCY		Total job cost:	\$611,6	624	

Site: Colowvo Coal M	ine	Permit A	ction: MT9		Permit/Job#:	C1981019	
			<u> </u>				
PROJECT IDEN	<u>TIFICATION</u>						
Task #: $405$	025	State: Col	orado ffat	Ab	breviation:	None 405	
User: HR1	023 (	Jounty: Mo	11at		Filename:	403	
A gapov or	organization nor	DPMS					
Agency of	organization nan						
HOURLY EQUI	PMENT COST	- -		Shift bas	is: <u>1 per day</u>		
		<b>T</b> 1 <b>T</b>	Equipment Descri	ption			
1	ruck Loader Tea	m - Truck: K	KOMATSU 830E	50			
Supp	ort Equipment -L	oad Area: C	Cat D11T - 11U	50			
	-Du	mp Area: C	Cat D11T - 11U				
Road M	aintenance – Moto	or Grader: C	CAT 16M				
	- <b>vv</b> a	v v	valer Tanker, 14,000	J Gal.			
Cost Breakdown:	Truck/Loa	der Team	Support 1	Equipment	Mainte	enance Equipm	ient
	Truck	Loader	Load Area	Dump Area	Motor Grad	ler Water Ti	ruck
6Utilization-machine:	100	10	0 100	100		25	2:
Ownership cost/hour:	\$209.47	\$635.2	9 \$496.62	\$496.62	\$179.	39 \$1	30.32
Operating cost/hour:	\$274.17	\$581.0	6 \$324.90	\$324.90	\$29.	91 \$	35.4
%Utilization-riper:	NA		0 NA	NA	Ν	NA	NA
Ripper own. cost/hour:	NA	\$0.0	0 \$0.00	\$0.00	\$0.	00	\$0.0
Ripper op. cost/hour:	NA	\$0.0	0 \$0.00	\$0.00	\$0.	00	\$0.0
Operator cost/hour:	\$25.24	\$36.8	5 \$38.59	\$38.59	\$27.	.76 \$	21.12
Unit Subtotals:	\$508.88	\$1,253.2	0 \$860.11	\$860.11	\$237.	06 \$1	86.88
Number of Units:	3	<b>**</b>	1 1	1		1	
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Man	nt: \$423.94	
Total work team cos	t/hour: <b><u>\$4,924.0</u></b>	0					
MATEDIAL OU	ANTITICS						
<u>MATERIAL QU</u>	ANTITES						
Initial volume:	444,448		CY Swell	factor: 1.125			
Loose volume:	500,00		_ I				
Source	arce of estimated	volume: Ex	thibit 13C				
Source	Material Purcha	use Cost: \$0	0.00				
	То	tal Cost: \$0	0.00				
	οιιατιον						
HOUKLY PRO	DUCTION						
Truck Capacity:	100.						
<u>Iruck Payload (weig</u> Material w	<u>gnt) Basis:</u> reight: 2 550		Pounde/I CV				
Descr	ption: <u>2,550</u>	Dry packed					
Rated Pa	yload: 492,200	)	Pounds				
Pavload Car	pacity: 193.02		ICV				

Truck Bed (volume) Basis:	152.00	7.7				
Struck Volume:	<u>153.00</u> LC	CY NY				
Heaped Volume:	<u>192.00</u> LC	CY NY				
Average Volume:	1/2.50 LC	ΣΥ N				
Adjusted Volume:	192.00 LC	CY				
Final	Truck Volume Ba	ased on Number of I	oader Passes:	174.90	LCY	
Loading 1001 Capacity			Buck	et Size Class N	Δ	
Rated Capacity:	53.000	LCY (heaped)	Duck			-
Bucket Fill Factor:	1.100	Other - rock/dirt r	nixtures (100-	-120%) 1.100		
Adjusted Capacity:	58.300	LCY	X	,		
Job Condition Corrections:	_	Site	Altitude (ft.): 7	<u>'600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	)		
Job Efficiency:	0.830	0.830	(CAT HB	)		
Net Correction:	0.830	0.813				
	N 1		D 1.1.		2	
Loading Tool Cycle Time:	Number of	t Loading Tool Pass	es Required to I	fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time v Selected Value v	s. Job Condition F vithin this Basic F	Rating: <u>NA</u> Rating: NA				
Track Loaders –	Material Descript	ion:				
Cycle Time Elements (min.):						
Load: NA	Man	euver: NA		Dump: 0.100		
Wheel and Track Loaders -	Unadjusted Basic	c Loader Cycle Time	(load, dump, n	naneuver): 0.	725 minu	ites
Cycle Time Factors	,			Factor (min.)	Source	
Material:	Material 6" and	over diameter 0.03		0.030	(Cat HB)	-
Stockpile:	Conveyor or doz	zer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	_
Truck Ownership:	Common owner	ship of trucks and lo	aders -0.04	-0.040	(Cat HB)	_
Operation:	Constant operat	ion -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal target	0.00		0.000	(Cat HB)	_
		Net Cycle Time	Adjustment:	-0.050	minutes	
		Adjusted Loader	Cycle Time: _	0.675	minutes	
		Net Load Tim	e per Truck:	1.450	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return maintained 2.0	) Time:	Road Condition: Ha	rd, smooth, stal	bilized, surfaced, w	atered.	

Haul F	Route:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	4290	0.00	0.80	2.00	2.80	2409	2.259	
Return	n Route:				Haul Time: _	2.259	minute	S
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	4290	0.00	-0.80	2.00	1.20	3503	1.474	
				Total Tru	Return Time: ck Cycle Time:	<u>1.474</u> 7.213	minu minu	tes tes
Loading Pr Truck Unit Pr	roduction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		1,454.96	LCY/Hour		Adjusted for j	ob efficiency:	1,207.61	LCY/Hour
Optimal No. of	f Trucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
			Adjuste	d hourly truc	k team producti	on: <u>3,622</u>	2.84 LC	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: $3,622$	<u>2.84</u> LC	Y/Hour
			Aujusteu munip		er team productio	JII. <u>3,02</u> 2	2.04 LC	/1/110u1
JOB 7	TIME A	ND COST						
Fle	eet size:	1	Team(s)	- -	Fotal job time:	138.0	9 <b>1</b> F	Hours
U	nit cost:	\$1.359	/LCY	,	Total job cost:	\$679,5	83	

Site: Colowyo Coal M	ine	Permit Activ	on: <u>MT9</u>	·	Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	TIFICATION					
Task #: <u>406</u> Date: <u>3/11/2</u>	025	State: Colora	ado	Ab	breviation: <u>No</u> Filename: 40	ne 5
User: HR1						<u> </u>
Agency or	organization nan	ne: DRMS				
HOUDI V FOUI	DMENT COST	י		Shift bos	ice 1 par day	
<u>HOUKLI EQUI</u>		<u> </u>	Equipment Deser	stion	15. <u>1 per uay</u>	
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	puon		
		-Loader: LE	FOURNEAU L23	50		
Supp	ort Equipment -L Dו-D	oad Area: Cat	D11T - 11U			
Road M	aintenance – Mote	or Grader: CA	T 16M			
	-Wa	ter Truck: Wa	ter Tanker, 14,000	) Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintenar	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	25	25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA tatat	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Group Subtotals:	4 Work:	\$3 288 72	Support:	<u> </u>	Maint:	\$423.94
Tetal and terms	φ5 422 1	φ3,200.72	Support.	$\psi_{1,720.22}$	iviaint.	φ-23.7+
Total work team cos	u nour: <u>\$5,452.0</u>	<u>bo</u>				
MATERIAL QU	ANTITIES					
Initial volume:	292,294	CCY	Swell	factor: 1.125		
Loose volume:	328,83	B1 LCY	-			
Sou	urce of estimated	volume: Exhi	bit 13C			
Source	of estimated swe	ll factor: Cat I	Handbook			
	Material Purcha	ase Cost: <u>\$0.00</u> otal Cost: <u>\$0.00</u>	0			
	10		~			
HOURLY PRO	<b>DUCTION</b>					
Truck Capacity:						
Truck Payload (weig	<u>sht) Basis:</u>					
Material w Descri	eight: <u>2,550</u> ption: Earth -	Dry packed	Pounds/LCY			
Rated Pa	yload: 492,20	0	Pounds			
	100.00		1 011			

Truck Bed (volume) Basis: Struck Volume:	153.00	ICV				
Hooped Volume	102.00					
Augreen Volume:	192.00					
Average volume:	1/2.50					
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number o	f Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buel	zat Siza Class: N	٨	
Rated Capacity:	53.000	LCY (heaped)	Duch		Α	
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		_
Adjusted Capacity:	58.300	LCY	(100	120,00 1.100		-
Job Condition Corrections	<u>.</u>	Si	te Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adi:	1.000	0.980	(CAT HB	()		
Job Efficiency:	0.830	0.830	(CAT HB	<i>5</i> )		
Net Correction:	0.830	0.813				
	0.000					
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to 1	Fill Truck:	3 1	basses
Excavators and Front Shove	<u>ls:</u>					
Machina Cycle Time y	a Job Condition	Dating: NA				
Selected Value	within this Basic	c Rating: <u>NA</u>				
Track Loaders –	Material Descri	ption:				
Cycle Time Elements (min.):						
Load: NA	Μ	aneuver: NA		Dump: 0.100	)	
Wheel and Track Loaders -	Unadjusted Ba	sic Loader Cycle Ti	me (load, dump, n	naneuver): 0	.725 min	utes
Cycle Time Factors			, , , , , , , , , , , , , , , , , , ,	Factor (min )	Source	
Material:	Material 6" ar	nd over diameter 0.0	3	0.030	(Cat HB)	
Stockpile:	Conveyor or o	lozer piled 10 ft. hig	h and up $0.00$	0.000	(Cat HB)	_
Truck Ownership:	Common own	ership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant oper	ation -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	et 0.00		0.000	(Cat HB)	
[		Net Cycle Tir	ne Adjustment:	-0.050	minutes	
		Adjusted Load	er Cvcle Time:	0.675	minutes	
		Net Load T	ime per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time	: 0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time	: 1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time	: 1.20	Minutes	Adjusted	for site altitude:	1.200	Minute

H	aul Rout	e:							
Se	eg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		5093.0	00	4.60	2.00	6.60	1160	4.543	
Re	eturn Ro	ute:				Haul Time:	4.543	minutes	
Se	eg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		5093.0	00	-4.60	2.00	-2.60	3503	1.499	
					Total Tru	Return Time: ck Cycle Time:	1.499 9.522	minute	es es
Load Truck Un	ling Tool Produe hit Produe	unit ction ction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		-	1,102.13	LCY/Hour		Adjusted for j	ob efficiency:	914.77	LCY/Hour
Optimal N	lo. of Tru	icks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste Adjusted sing Adjusted multip	ed hourly truc le truck/loade le truck/loade	k team productioner team produ	on:         3,659           on:         3,659           on:         3,659           on:         3,659	9.06 LCY 9.06 LCY 9.06 LCY	Y/Hour Y/Hour Y/Hour
<u>J(</u>	OB TIN	1E AN	D COST						
	Fleet s	ize:	1	Team(s)	r -	Fotal job time:	89.8	<b>7</b> H	ours
	Unit c	ost:	\$1.485	/LCY	,	Total job cost:	\$488,2	240	

Task description:	Haul/Re	grade Topsoil t	o Collom Haul R	oad: 112+26 - 14	9+00	
Site: Colowyo Coal M	ine	Permit Action	on: <u>MT9</u>		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	<b>TIFICATION</b>					
Task #:407		State: Colora	ado	Ab	breviation: Nor	ne
Date: $3/11/2$	025 0	County: <u>Moffa</u>	t		Filename: 407	1
User: <u>HR1</u>						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST			Shift bas	is: <u>1 per day</u>	
T	ruck Loader Tea	m -Truck: KO	Equipment Descri MATSU 830E	ption		
	ant Englisher and I	-Loader: LET	FOURNEAU L23	50		
Suppo	Drt Equipment -L	ump Area: Cat	$\frac{D111 - 110}{D11T - 11U}$			
Road Ma	aintenance – Moto	or Grader: CA'	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.		
<u>Cost Breakdown</u> :	Truck/Loa	der Team	Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	25	25
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Maint:	\$423.94
Total work team cos	t/hour: <u>\$4,415.1</u>	12				
Initial volume:	<u>37,792</u> <u>42 51</u>	CCY	Swell	factor: <u>1.125</u>		
Sou	urce of estimated	volume: Exhi	bit 13C			
Source	of estimated swe	ll factor: Cat H	Handbook			
	Material Purcha	tal Cost: $\frac{$0.00}{$0.00}$	)			
HOURLY PRO	<b>DUCTION</b>					
<u>Truck Capacity:</u> <u>Truck Payload (weiş</u> Material w Descri	<u>ght) Basis:</u> reight: <u>2,550</u> ption: Earth -	Dry packed	Pounds/LCY			
Rated Pa	yload: 492,200	)	Pounds			
Payload Car	bacity: 193.02		LCY			

Truck Bed (volume) Basis:	152.00					
Struck Volume:	<u>153.00</u> LO	CY CV				
Heaped Volume:	<u>192.00</u> LO	CY				
Average Volume:	<u>172.50</u> LO	CY				
Adjusted Volume:	192.00 L0	CY				
Final	Truck Volume B	ased on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buc	kat Siza Class: N	٨	
Rated Capacity:	53,000	LCY (heaped)	Buci	ket Size Class. <u>N</u>	Α	_
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		_
Adjusted Capacity:	58.300	LCY	(100	12070) 11100		-
Job Condition Corrections	<u>.</u>	Si	te Altitude (ft.):	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Not Composition.	0.830	0.912				
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number o	f Loading Tool Pa	sses Required to	Fill Truck:	3	asses
Excavators and Front Shove	<u>ls:</u>					
Mashina Cycle Time y	a Job Condition I	Dating NA				
Selected Value	within this Basic I	Rating: NA				
Track Loaders –	Material Descript	tion:				
Cycle Time Elements (min )	Wateria Desempt					
Load: NA	Mar	neuver: NA		Dump: 0.100		
Wheel and Track Loaders -	Unadjusted Basi	c Loader Cycle Tir	ne (load, dump, r	naneuver): 0.	725 min	ites
Cycle Time Factors				Factor (min.)	Source	_
Material:	Material 6" and	over diameter 0.0.	3	0.030	(Cat HB)	_
Stockpile:	Conveyor or do	zer piled 10 ft. hig	h and up 0.00	0.000	(Cat HB)	_
Truck Ownership:	Common owner	rship of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant operat	tion -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal target	0.00	A 1:	0.000	(Cat HB)	_
		Net Cycle 11m	e Adjustment:	-0.050	minutes	
		Adjusted Load	er Cycle Time:	0.075	minutes	
		Net Load 1	ime per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time	: 0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time	: 1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time	: 1.20	Minutes	Adjusted	for site altitude:	1.200	Minute

Haul R	oute:							
Seg #	Hau (Ft)	l Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2000	).00	2.00	2.00	4.00	1786	1.413	
Return	Route:				Haul Time: _	1.413	minute	S
Seg #	Hau (Ft)	l Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	2000	).00	-2.00	2.00	0.00	3503	0.774	_
T and in a 7	71			Total Tru	Return Time: ck Cycle Time:	0.774 5.667	minu minu	ites ites
Loading I Pro Truck Unit Pro	oduction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
		1,851.91	LCY/Hour		Adjusted for j	ob efficiency:	1,537.08	B LCY/Hour
Optimal No. of	Trucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly truc	k team productio	on: 3,074	4.17 LO	CY/Hour
			Adjusted sing Adjusted multip	le truck/loade le truck/loade	er team production er team production	on: <u>3,074</u> on: <u>3,074</u>	4.17 LO 4.17 LO	CY/Hour CY/Hour
JOB 1	TIME A	ND COST						
Fle	et size:	1	Team(s)	- -	Fotal job time:	13.8	3 ]	Hours
Ur	nit cost:	\$1.436	/LCY	,	Total job cost:	\$61,0	62	

Task description:	<u>Haul/Re</u>	grade Topsoil to	o Collom Haul R	oad: 149+00 - 22	<u>2+20</u>	1001010
Site: Colowyo Coal M	ine	Permit Action	on: <u>MT9</u>		Permit/Job#: <u>C</u>	1981019
<b>PROJECT IDEN</b>	TIFICATION					
Task #: 408		State: Colora	ado	Ab	breviation: No	one
Date: $3/11/2$	.025	County: Moffa	t		Filename: 40	8
User: HR1						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST			Shift bas	is: 1 per day	
		]	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	F		
		-Loader: LET	FOURNEAU L23	50		
Suppo	Drt Equipment -L -Di	oad Area: Cat	$\frac{D111 - 110}{D11T - 11U}$			
Road Ma	aintenance – Mote	or Grader: CA	T 16M			
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.		
Cast Brookdown	Truck/Log	der Team	Sunnort	Fauinment	Maintanar	nce Fauinment
CUSI DI CARUUWII;	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	25	24
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	3	1	1	1	1	1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint:	\$423.94
Total work team cos	t/hour: <b>\$4,924.(</b>	)0				
MATEDIAL OII	ANTITIES					
MATERIAL QU	ANTITES					
Initial volume:	92,225	$\frac{CCY}{1}$	Swell	factor: <u>1.125</u>		
Loose volume.	103,73	<u>,5</u> LCT				
Source	arce of estimated	volume: Exhil Il factor: Cat F	bit 13C Jandbook			
bource	Material Purcha	ase Cost: $\$0.00$	)			
	Тс	tal Cost: \$0.00	)			
HOURLVPRO	DUCTION					
Truck Capacity: Truck Pavload (weig	oht) Basis					
Material w	veight: 2,550		Pounds/LCY			
Descri	ption: Earth -	Dry packed				
Rated Pa	yload: $492,200$	U	Pounds			
i ayibau Caj	acity. <u>175.02</u>					

Truck Bed (volume) Basis: Struck Volume:	153.00	ICV				
Hooped Volume	102.00					
Augreen Volume:	192.00					
Average volume:	1/2.50					
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number o	f Loader Passes:	174.90	LCY	
Loading Tool Capacity			Buel	zot Sizo Class: N	٨	
Rated Capacity:	53.000	LCY (heaped)	Duch		Α	
Bucket Fill Factor:	1.100	Other - rock/dir	t mixtures (100	-120%) 1.100		_
Adjusted Capacity:	58.300	LCY	(100	120,00 1.100		-
Job Condition Corrections	<u>.</u>	Si	te Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adi:	1.000	0.980	(CAT HB	()		
Job Efficiency:	0.830	0.830	(CAT HB	<i>5</i> )		
Net Correction:	0.830	0.813				
	0.000					
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to 1	Fill Truck:	3 1	basses
Excavators and Front Shove	<u>ls:</u>					
Machina Cycle Time y	a Job Condition	Dating: NA				
Selected Value	within this Basic	c Rating: <u>NA</u>				
Track Loaders –	Material Descri	ption:				
Cycle Time Elements (min.):						
Load: NA	Μ	aneuver: NA		Dump: 0.100	)	
Wheel and Track Loaders -	Unadjusted Ba	sic Loader Cycle Ti	me (load, dump, n	naneuver): 0	.725 min	utes
Cycle Time Factors			, , , , , , , , , , , , , , , , , , ,	Factor (min )	Source	
Material:	Material 6" ar	nd over diameter 0.0	3	0.030	(Cat HB)	
Stockpile:	Conveyor or o	lozer piled 10 ft. hig	h and up $0.00$	0.000	(Cat HB)	_
Truck Ownership:	Common own	ership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant oper	ation -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	et 0.00		0.000	(Cat HB)	
[		Net Cycle Tir	ne Adjustment:	-0.050	minutes	
		Adjusted Load	er Cvcle Time:	0.675	minutes	
		Net Load T	ime per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time	: 0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time	: 1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time	: 1.20	Minutes	Adjusted	for site altitude:	1.200	Minute

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2650	.00	2.00	2.00	4.00	1786	1.777	
	Return Ro	oute:				Haul Time: _	1.777	minute	28
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	2650	.00	-2.00	2.00	0.00	3503	0.960	
Ĭ	o din o To o	1			Total Tru	Return Time: ck Cycle Time:	0.960 6.217	minu minu	ites ites
Truck I	Produ Drit Produ	ction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
			1,688.06	LCY/Hour		Adjusted for j	ob efficiency:	1,401.0	9 LCY/Hour
Optimal	No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	ed hourly true	k team production	on: 4,203	3.28 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,820$	<u>).87</u> L(	CY/Hour
				Aujusted multip	le truck/loade	er team productio	011: <b>3,82</b> 0	<u></u> L	
	JOB TIN	AE AI	ND COST						
	Fleet s	size:	1	Team(s)	-	Fotal job time:	27.1	5	Hours
	Unit c	cost:	\$1.289	/LCY		Total job cost:	\$133,7	/08	

Site: Colowyo Coal M	ine	Permit Activ	on: <u>MT9</u>		Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	TIFICATION					
Task #: $409$ Date: $3/11/2$	025	State: Colora County: Moffa	ado ıt	Ab	breviation: No Filename: 409	ne Ə
User: HR1						
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
		-	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E			
Supp	ort Fauinment -I	-Loader: LE	<u>FOURNEAU L23</u> D11T - 11U	50		
Եսիի	-Di	imp Area: Cat	D11T - 11U			
Road M	aintenance – Mot	or Grader: CA	T 16M			
	-Wa	ter Truck: Wa	ter Tanker, 14,000	) Gal.		
Cost Breakdown:	Truck/Loa	ader Team	Support l	Equipment	Maintenar	ce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
6 Utilization-machine:	100	100	100	100	25	2.
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Uperator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Number of Units:	\$308.88	\$1,235.20	\$800.11	\$800.11	\$257.00	\$180.80
Group Subtotals:	Work [.]	\$2,779.84	Support:	\$1 720 22	Maint:	\$423.94
Total work team cos	t/hour: <b>\$4.924.</b>	00	Support	¢1,720.22		¢120.91
MATERIAL OU	ANTITIES					
MATERIAL QU	ANTITLS					
Initial volume: Loose volume:	12,224	$\frac{1}{2}$	Swell	factor: 1.125		
So	rce of estimated	volume: Exhi	bit 13C			
Source	of estimated swe	ell factor: Cat I	Handbook			
	Material Purch	ase Cost: \$0.00	0			
	10	∫tai Cost. <u>\$0.00</u>	0			
HOURLY PRO	<b>DUCTION</b>					
Truck Capacity:						
Truck Payload (weight	<u>ght) Basis:</u>		Downda / CV			
Material v Descr	peignt: <u>2,550</u>	Dry packed	Pounds/LCY			
Rated Pa	yload: <u>492,20</u>	0	Pounds			
<b>D</b> 1 1 G	102.00		LOV			

Truck Bed (volume) Basis:	150.00					
Struck Volume:	<u>153.00</u> L	CY				
Heaped Volume:	<u>192.00</u> L	CY				
Average Volume:	172.50 L	CY				
Adjusted Volume:	192.00 L	CY				
Final	Truck Volume B	ased on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			<b>D</b> 1			
		1	Buck	ket Size Class: <u>N</u>	A	_
Rated Capacity:	53.000	LCY (heaped)		1200/11/00		-
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (100	-120%) 1.100		=
Adjusted Capacity:	58.300	LCY				
Job Condition Corrections:	-	Site	e Altitude (ft.): 7	<u>7600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	8)		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number of	of Loading Tool Pas	ses Required to 1	Fill Truck:	3 1	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs	Iob Condition	Rating NA				
Selected Value w	within this Basic	Rating: NA				
Track Loaders – I	Material Descrip	tion:				
Cycle Time Elements (min.):						
Load: NA	Ma	neuver: NA		Dump: 0.100	)	
	_			1		
Wheel and Track Loaders -	Unadjusted Basi	c Loader Cycle Tim	e (load, dump, r	maneuver): 0	.725 minu	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	Material 6" and	l over diameter 0.03		0.030	(Cat HB)	_
Stockpile:	Conveyor or do	ozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	_
Truck Ownership:	Common owne	rship of trucks and l	oaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant operation	tion -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal target	0.00		0.000	(Cat HB)	_
		Net Cycle Time	e Adjustment:	-0.050	minutes	
		Adjusted Loade	r Cycle Time:	0.675	minutes	
		Net Load Ti	me per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Truck Travel (Haul & Return maintained 2.0	) Time:	Road Condition: <u>H</u>	ard, smooth, sta	bilized, surfaced, w	ratered,	

	Haul Rou	te:							
	Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2650.	00	-3.00	2.00	-1.00	3503	0.839	
	Return Ro	oute:				Haul Time:	0.839	minutes	
	Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2650.	00	3.00	2.00	5.00	3296	1.456	
L	o dino Too	1			Total Tru	Return Time: ck Cycle Time:	<u>1.456</u> 5.775	minute	es es
Lo Truck I	Produ Produ Unit Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
		-	1,817.27	LCY/Hour		Adjusted for j	ob efficiency:	1,508.34	LCY/Hour
Optimal	l No. of Ti	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	ed hourly true	k team production	on: 4,525	5.01 LCY	//Hour
				Adjusted sing	le truck/loade	er team production	on: $3,820$	<u>).87</u> LCY	/Hour
				Aujusteu munip	ie truck/toaue	er team productio	011. <b>3,02</b> 0	<b>J.0</b> 7 LC	1/HOUI
	JOB TI	ME AN	D COST						
	Fleet	size:	1	Team(s)	r	Fotal job time:	3.60	) H	ours
	Unit	cost: _	\$1.289	/LCY	,	Total job cost:	\$17,72	22	

Site: Colowyo Coal M	ine	Permit Actio	on: MT9		Permit/Job#: C	21981019
Task #: 410	<u>IIFICATION</u>	State: Colors	do	۸h	broviation: N	0.00
Date: $3/11/2$	025	County: Moffa	t	A0	Filename: 41	0
User: HR1						
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>-</u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
1	ruck Loader Tea	-Loader: LET	MATSU 830E OURNEAU L23	50		
Supp	ort Equipment -L	oad Area: Cat	D11T - 11U			
Dood M	-Du	imp Area: Cat	D11T - 11U			
Koad M	-Wa	ter Truck: Wat	er Tanker, 14,000	) Gal.		
	<b>T</b> 1 <i>T</i>					
<u>Cost Breakdown</u> :	Truck/Loa	Ider Team	Support I	Equipment	Maintena Motor Grader	Water Truck
0/ Litilization mashing	100	100	100	100	25	
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	<u></u>
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$29.91	\$35.44
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2 Work:	\$2,270.06	Support	\$1,720,22	l Moint:	\$422.04
Group Subiotais.	WOIK.	\$2,270.90	Support.	\$1,720.22	Iviaiiit.	\$423.94
Total work team cos	st/hour: <u><b>\$4,415.</b></u>	12				
MATERIAL QU	ANTITIES					
Initial volume:	26,098	CCY	Swell	factor: 1.125		
Loose volume:	29,36	0 LCY				
So	urce of estimated	volume: Exhit	oit 13C			
Source	of estimated swe	Il factor: Cat H	landbook			
	То	tal Cost: $\frac{$0.00}{$0.00}$	)			
HOURLY PRO	<b>DUCTION</b>					
Truck Capacity:	100					
<u>Iruck Payload (wei</u> Material w	<u>gnt) Basis:</u> veight: 2.550		Pounds/LCY			
Descr	iption: Earth -	Dry packed				
	•					

Heaped Volume:       19         Average Volume:       17         Adjusted Volume:       19         Final Truc         Loading Tool Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Job Condition Corrections:         Job Efficiency:         0.8         Net Correction:         0.8         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi:       NA	92.00         L0           72.50         L0           92.00         L0           92.00         L0           ack Volume B         53.000           1.100         58.300           ruck         .000           .830         .830           .830	CY CY CY Sased on Number of 1 Other - rock/dirt CY Site LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA	Loader Passes: Buck mixtures (100 e Altitude (ft.): <u>7</u> Altitude (ft.): <u>7</u> (CAT HB (CAT HB (CAT HB		LCY A	
Average Volume:       17         Adjusted Volume:       19         Final True         Loading Tool Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Job Condition Corrections:         Job Efficiency:         0.8         Net Correction:         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job         Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi	72.50       L0         92.00       L0         53.000       100         58.300	CY CY CY Based on Number of D Dther - rock/dirt Dther - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	Loader Passes: Buck mixtures (100 e Altitude (ft.): 7 CAT HB (CAT HB (CAT HB	<u>174.90</u> cet Size Class: <u>Na</u> -120%) 1.100 7600 feet ) ) Fill Truck:	_ LCY A	 - -
Adjusted Volume:       19          Final True          Rated Capacity:         Bucket Fill Factor:       Bucket Fill Factor:         Adjusted Capacity:       Image: Column         Job Condition Corrections:         Job Condition Corrections:         Job Efficiency:       0.8         Altitude Adj:       1.0         Job Efficiency:       0.8         Net Correction:       0.8         Loading Tool Cycle Time:       Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate       Cycle Time Elements (min.):         Loadi       NA	92.00       L0         1.100       58.300         ruck       .000         .830       .830         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .900       .000         .900       .000         .900       .000         .900       .000         .900       .000         .900       .000         .900	CY Sased on Number of I CY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 Of Loading Tool Pass Rating: NA Rating: NA	Loader Passes: Buck mixtures (100 e Altitude (ft.): 7 Source (CAT HB (CAT HB (CAT HB		_ LCY A	
Final True Loading Tool Capacity  Rated Capacity: Bucket Fill Factor: Adjusted Capacity: Job Condition Corrections: Job Condition Corrections: Job Efficiency: O.8 Net Correction: Code Selected Value withi Track Loaders – Mate Cycle Time Elements (min.): Loadi NA	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         <	LCY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> right NA	Loader Passes: Buck mixtures (100 e Altitude (ft.): <u>7</u> Altitude (ft.): <u>7</u> (CAT HB (CAT HB (CAT HB	<u>174.90</u> xet Size Class: <u>Na</u> -120%) 1.100 7600 feet ) ) Fill Truck:	_ LCY A	 - - passes
Final Truc         Loading Tool Capacity:         Bucket Fill Factor:	53.000           1.100           58.300             ruck           .000           .830           .830           .830           .bb Condition I in this Basic I terial Description	LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> ri	Buck mixtures (100 Altitude (ft.): <u>7</u> CAT HB (CAT HB (CAT HB	<u>174.90</u> cet Size Class: <u>N</u> -120%) 1.100 7600 feet () () () Fill Truck:	LCY A	- - vasses
Loading Tool Capacity         Rated Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Job Condition Corrections:         Job Edition Corrections:         Image: Adjusted Capacity:         Job Condition Corrections:         Job Edition Corrections:         Net Correction:         Image: Dol Edition Correction:         Dol Edition Correction:         Job Efficiency:         0.8         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi:       NA	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .100         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90 <t< td=""><td>LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA</td><td>Buck mixtures (100 e Altitude (ft.): 7 Source (CAT HB (CAT HB</td><td>xet Size Class:         -120%) 1.100         7600 feet         (3)         (3)         (4)         (5)         (5)         (6)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)<!--</td--><td>A</td><td>- - vasses</td></td></t<>	LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA	Buck mixtures (100 e Altitude (ft.): 7 Source (CAT HB (CAT HB	xet Size Class:         -120%) 1.100         7600 feet         (3)         (3)         (4)         (5)         (5)         (6)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7)         (7) </td <td>A</td> <td>- - vasses</td>	A	- - vasses
Rated Capacity:	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .91         .92         .93         .94         .95         .95         .95         .95         .95         .95         .95         .95         .95         .95         .95 <t< td=""><td>LCY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA</td><td>Buck mixtures (100 e Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I</td><td>Ket Size Class:</td><td><u>3</u> p</td><td> - passes</td></t<>	LCY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA	Buck mixtures (100 e Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I	Ket Size Class:	<u>3</u> p	 - passes
Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Image: Altitude Adj:         Altitude Adj:         Job Efficiency:         0.3         Net Correction:         Image: Description of the second secon	1.100 <b>58.300</b> ruck         .000         .830         .830         .830         .830         .830         .830         .100         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90	Def (maped)         Other - rock/dirt         LCY         Site         0.980         0.830         0.813         of Loading Tool Pass         Rating:       NA         right	e Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I	-120%) 1.100 7600 feet () () Fill Truck:	<u>3</u> p	asses
Job Condition Corrections:         Job Condition Corrections:         Image: Adjusted Capacity:         Job Condition Corrections:         Altitude Adj:         Job Efficiency:         0.3         Net Correction:         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job         Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi:       NA	1.100       58.300       ruck       .000       .830       .830       .830       .bb Condition I       in this Basic I       terial Descript	Under Flock/ult           LCY           Site           0.980           0.830           0.813           of Loading Tool Pass           Rating:         NA	Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I	7 <u>600</u> feet	<u>3</u> p	asses
Job Condition Corrections:         Tr         Altitude Adj:       1.0         Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:       0.4         Excavators and Front Shovels:       Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate         Cycle Time Elements (min.):       Loadi:	ruck       .000       .830       .830       .830       .830       .830       .900 Condition I in this Basic I terial Description	Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	e Altitude (ft.): 7 Source (CAT HB (CAT HB	7 <u>600</u> feet	<u>3</u> p	passes
Job Condition Corrections:         Image: Tree Altitude Adj:       1.0         Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate         Cycle Time Elements (min.):         Loading Tool	ruck       .000       .830       .830       .830       .830       .830       .900 Condition I       in this Basic I       terial Descript	Loader         0.980         0.830         0.813         of Loading Tool Pass         Rating:       NA         NA	Source (CAT HB (CAT HB (CAT HB)	Fill Truck:	<u>3</u> p	passes
Ir       Altitude Adj:     1.0       Job Efficiency:     0.3       Net Correction:     0.3       Loading Tool Cycle Time:       Excavators and Front Shovels:       Machine Cycle Time vs. Jol       Selected Value withi       Track Loaders – Mate       Cycle Time Elements (min.):       Loadi:	ruck         .000         .830         .830         .830         .830         .90 Condition I         in this Basic I         terial Descript	Loader         0.980         0.830         0.813         of Loading Tool Pass         Rating:       NA         Rating:       NA	Source (CAT HB (CAT HB	() () Fill Truck:	<u>    3                                </u>	asses
Altitude Adj:       1.4         Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Jol         Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi	.830 .830 .830 Number o ob Condition I in this Basic I terial Descript	0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	(CAT HB (CAT HB	5) Fill Truck:	<u>3</u> p	passes
Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:       1         Excavators and Front Shovels:       1         Machine Cycle Time vs. Jol       Selected Value withi         Track Loaders – Mate       1         Cycle Time Elements (min.):       1	.830 .830 Number o ob Condition I in this Basic I terial Descript	0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	ces Required to I	Fill Truck:	<u>3</u> p	asses
Net Correction:       0.1         Loading Tool Cycle Time:	.830 Number o ob Condition I in this Basic I terial Descript	0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	ses Required to I	Fill Truck:	<u>   3                                 </u>	passes
<u>Loading Tool Cycle Time:</u> <u>Excavators and Front Shovels:</u> Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate Cycle Time Elements (min.): Load: NA	Number o ob Condition I in this Basic I terial Descript	of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	es Required to l	Fill Truck:	<u>3</u> p	passes
<u>Excavators and Front Shovels:</u> Machine Cycle Time vs. Jol Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):	bb Condition I in this Basic I terial Descript	Rating: <u>NA</u> Rating: <u>NA</u>	les kequired to l	гии 1 гиск:	<u> </u>	vasses
Excavators and Front Shovels: Machine Cycle Time vs. Jol Selected Value withi Track Loaders – Mate Cycle Time Elements (min.): Load: NA	bb Condition I in this Basic I terial Descript	Rating: <u>NA</u> Rating: <u>NA</u>				
Machine Cycle Time vs. Jo Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):	bb Condition I in this Basic I terial Descript	Rating: <u>NA</u> Rating: <u>NA</u>				
Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):	in this Basic I terial Descript	Rating: <u>NA</u>				
Track Loaders – Mate Cycle Time Elements (min.):	terial Descript	· ·				
Cycle Time Elements (min.):		tion:				
Lord: NA						
LUau. INA	Mar	neuver: NA		Dump: 0.100		
	1. ( I.D. )		(1 1 1			
Wheel and Track Loaders - Una	adjusted Basi	c Loader Cycle Tim	e (load, dump, n	naneuver): $0.$	<u>725</u> minu	ites
Cycle Time Factors		1 1: 0.02		Factor (min.)	Source	_
Material: Ma	aterial 6" and	l over diameter 0.03	1 0.00	0.030	(Cat HB)	_
Truch Ormanhing Co	onveyor or do	Dzer piled 10 ft. nigh	and up 0.00	0.000	(Cat HB)	_
Operation: Co		tion 0.04	baders -0.04	-0.040	(Cat HB)	_
Dump Target: No	ominal target	0.00		-0.040	(Cat HB)	_
Dump Target. No	ommar target	Net Cycle Time	Adjustment	0.000	(Cat HB)	_
		Adjusted Loader	Cycle Time:	0.675	minutes	
		Net Load Tir	ne per Truck:	1.450	minutes	
Truck Cycle Time.			_			
	0.00		A 1* . •	C	0.000	7.
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
I ruck Load 1 ime:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	ior site altitude:	1.200	Minute
Truck Travel (Haul & Daturn) Ti	me.	Road Condition U	ard smooth stal	hilized surfaced w	atered	

Haul Ro	oute:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	1150.	00	-4.50	2.00	-2.50	3450	0.415	
Determ	Dantas				Haul Time:	0.415	minute	es
Seg #	Haul	Distance	Grade (%)	Roll Res	Total Rec	Velocity	Travel	7
5Cg #	(Ft)	Distance		(%)	(%)	(fpm)	Time (min)	
1	1150.	00	4.50	2.00	6.50	2853	1.155	
				Total Tru	Return Time: ck Cycle Time:	1.155 5.050	minu minu	ites
Loading To Pro Truck Unit Pro	ool unit duction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
		2,078.19	LCY/Hour		Adjusted for j	ob efficiency:	1,724.90	<u>0</u> LCY/Hour
Optimal No. of	Trucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 3,449	9.79 LO	CY/Hour
			Adjusted sing	le truck/loade	er team production	on: 3,449	9.79 LO	CY/Hour
			Adjusted multip	le truck/loade	er team production	on: 3,449	9.79 LO	CY/Hour
JOB T	IME AN	ND COST						
Flee	et size:	1	Team(s)	<b>-</b>	Fotal job time:	8.51	]	Hours
Uni	it cost:	\$1.280	/LCY		Total job cost:	\$37,5'	76	

Site: Colowyo Coal M	ine	Permit Ac	ction: MT9		Permit/Job#:	C1981019
PROJECT IDEN	<u>TIFICATION</u>					
Task #: $411$	025	State: Cole	orado ffat	Ab	breviation: <u>I</u>	None
User: HR1	023		IIat			<u>+11</u>
Agency or	organization nam	e' DRMS				
rigency of	organization num					
HOURLY EQUI	PMENT COST	-		Shift bas	is: <u>1 per day</u>	
т	male Leo den Teor	. Translar V	Equipment Descri	ption		
1	ruck Loader Tear	n - Iruck: К -Loader: L	ETOURNEAU L23	50		
Supp	ort Equipment -L	oad Area: C	Cat D11T - 11U			
	-Du	mp Area: C	Cat D11T - 11U			
Road M	aintenance – Moto -Wat	or Grader: C	CAT 16M Vater Tanker - 14 000	Gal		
	- •• at		vater Tanker, 14,000	, Gai.		
Cost Breakdown:	Truck/Loa	der Team	Support I	Equipment	Mainter	nance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grade	r Water Truck
6 Utilization-machine:	100	100	0 100	100	2	5 2
Ownership cost/hour:	\$209.47	\$635.29	9 \$496.62	\$496.62	\$179.3	9 \$130.3
Operating cost/hour:	\$274.17	\$581.06	6 \$324.90	\$324.90	\$29.9	1 \$35.4
%Utilization-riper:	NA	(	0 NA	NA	N	A N.
Ripper own. cost/hour:	NA	\$0.00	0 \$0.00	\$0.00	\$0.0	0 \$0.0
Ripper op. cost/hour:	NA	\$0.00	0 \$0.00	\$0.00	\$0.0	0 \$0.0
Operator cost/hour:	\$25.24	\$36.85	5 \$38.59	\$38.59	\$27.7	6 \$21.1
Unit Subtotals:	\$508.88	\$1,253.20	0 \$860.11	\$860.11	\$237.0	<u>6 \$186.8</u>
Number of Units:	2 Work	\$2.270.06	l l	\$1,720,22	Main	1 t: \$422.04
Group Subiotals:	WOFK:	\$2,270.96	Support:	\$1,720.22	Main	t: \$423.94
Total work team cos	t/hour: <u>\$4,415.1</u>	2				
MATERIAL OU	ANTITIES					
	ANTITLS					
Initial volume:	33,588		CY Swell	factor: <u>1.125</u>		
Loose volume.						
Source	of estimated swel	ll factor: Ca	it Handbook			
	Material Purcha	se Cost: \$0	.00			
	То	tal Cost: \$0	.00			
	ΠΙζΤΙΩΝ					
<u>nuukli pku</u>	DUCTION					
Truck Capacity:	abt) Dogios					
<u>1 ruck Payload (wei</u> Material w	<u>gnt) Баsis:</u> veight: 2,550		Pounds/LCY			
Descri	ption: <u>Earth</u> -	Dry packed	1 0 und 0 E C 1			
	1 1 402.200	、	<b>D</b> 1	-	-	

Haanad Voluma	135.00	LCY				
	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	174.90	LCY	
Loading Tool Capacity					<b>-</b> .	
Rated Canacity:	53 000	I CV (heaped)	Buck	ket Size Class: <u>N</u>	A	_
Bucket Fill Factor:	1 100	Other - rock/dir	t mixtures (100	-120%) 1 100		_
Adjusted Capacity:	58.300	LCY		12070) 1.100		_
		<i></i>				
Job Condition Corrections:	-	Si	ite Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	<u>8)</u>		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.813				
Lee Prov Teel Coule Theory	NT 1				2	
Loading Tool Cycle Time:	Number	r of Loading Tool Pa	sses Required to	F111 I ruck:	<u> </u>	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs	s. Job Condition	n Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v	s. Job Condition within this Basi	n Rating: <u>NA</u> c Rating: <u>NA</u>				
Machine Cycle Time vs Selected Value v Track Loaders – 1	s. Job Condition within this Basi Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption:				
Selected Value v Track Loaders – 2 Cycle Time Elements (min.):	s. Job Condition within this Basi Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption:				
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: NA	s. Job Condition vithin this Basi Material Descr M	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: NA		 Dump: 0.100	)	
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u>	s. Job Condition vithin this Basi Material Descr	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u>		 Dump:0.100	)	
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	s. Job Condition vithin this Basi Material Descr — M — Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Tin	me (load, dump, r	Dump: 0.100	) 1.725 minu	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	s. Job Condition vithin this Basi Material Descr M – Unadjusted Ba	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Tin	me (load, dump, r	Dump: 0.100 naneuver):0 Factor (min.)	) .725 minu Source	ıtes
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	s. Job Condition vithin this Basi Material Descr — M Unadjusted Ba Material 6" a	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0	me (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	) .725 minu Source (Cat HB)	ites
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile:	s. Job Condition vithin this Basi Material Descr – M – Unadjusted Ba Material 6" a Conveyor or	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u>NA</u> Ianeuver: <u>NA</u> usic Loader Cycle Tin <u>nd over diameter 0.0</u> dozer piled 10 ft. hig	me (load, dump, r 3 h and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	) .725 minu Source (Cat HB) (Cat HB)	utes 
Machine Cycle Time vs Selected Value v Track Loaders – 2 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> ssic Loader Cycle Tir nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and	me (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040	) Source (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> sic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04	me (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> faneuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	me (load, dump, r 3 h and up 0.00 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites   
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes    
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin <u>nd over diameter 0.0</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes  
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0. dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	) .725 minu Source (Cat HB) (Cat	utes   
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> sic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r 3 h and up 0.00 loaders -0.04 er Cycle Time: 'ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	) 5.725 minu Source (Cat HB) (Cat HB) (Ca	Ites   
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> usic Loader Cycle Tin <u>nd over diameter 0.0</u> dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes Minutes	utes    Minute
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time: Truck Load Time:	s. Job Condition vithin this Basi Material Descr — M Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ : 0.80 : 1.450	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u>NA</u> Ianeuver: <u>NA</u> sic Loader Cycle Tin nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r 3 h and up 0.00 loaders -0.04 ne Adjustment: er Cycle Time: ime per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	) 2.725 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	utes     Minute
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: K Maneuver and Dump Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T  Minutes  Minutes  Minutes	me (load, dump, r 3 h and up 0.00 loaders -0.04 er Cycle Time: c'ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude: for site altitude:	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	Ites
Machine Cycle Time vs Selected Value v Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time: Truck Load Time: St Maneuver and Dump Time:	s. Job Condition vithin this Basi Material Descr Unadjusted Ba Material 6" a Conveyor or Common own Constant oper Nominal targ	n Rating: <u>NA</u> c Rating: <u>NA</u> iption: <u></u> Ianeuver: <u>NA</u> asic Loader Cycle Tin nd over diameter 0.0. dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T  Minutes  Minutes   Minutes	me (load, dump, r 3 h and up 0.00 loaders -0.04 me Adjustment: er Cycle Time: 'ime per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude: for site altitude:	) .725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480 1.200	utes 

	Haul Rout	te:							
	Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2000.	00	-5.75	2.00	-3.75	2545	0.893	
						Haul Time:	0.893	minu	ites
_	Return Ro	oute:							
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
_		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	2000.	00	5.75	2.00	7.75	2327	1.323	
					Total Tru	Return Time: ck Cycle Time:	1.323 5.696	min	nutes nutes
L	oading Too	l unit							
Truck	Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.	.87 LCY/Hour
TTUCK	Unit Produ	<u>-</u>	1,842.48	LCY/Hour		Adjusted for j	ob efficiency:	1,529.	.26 LCY/Hour
Optima	al No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truc	k team production	on: 3,058	3.51 I	LCY/Hour
				Adjusted sing	le truck/loade	er team production	on: 3,058	3.51 I	LCY/Hour
				Adjusted multip	le truck/loade	er team production	on: 3,058	<b>3.51</b>	LCY/Hour
	JOB TIN	ME AN	D COST						
	Fleet	size:	1	Team(s)	]	Fotal job time:	12.3	5	Hours
	Unit o	cost:	\$1.444	/LCY	,	Total job cost:	\$54,54	47	

Site: Colowyo Coal Mi	ne	Permit Actio	on: <u>MT9</u>	·	Permit/Job#: <u>C</u>	1981019
PROJECT IDEN	<b>FIFICATION</b>					
Task #: $412$		State: Colora	ado	Ab	breviation: No	ne
User: HR1	<u>J25</u>	County: Nona	l		Filename: 41.	2
	•					
Agency or	organization nan	ne: DRMS				
HOURLY EQUIE	MENT COST	<u>[</u>		Shift bas	is: <u>1 per day</u>	
. <u></u>		]	Equipment Descri	ption		
Ti	ruck Loader Tea	m -Truck: KO	MATSU 830E	50		
Suppo	rt Equipment -I	-Loader: LE	D11T - 11U	50		
Duppe	-Di	imp Area: Cat	D11T - 11U			
Road Ma	intenance – Mote	or Grader: CA	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.		
Cost Breekdown.	Truck/Los	der Team	Support	Fauinment	Maintenar	ce Equinment
<u>Cost Dicardown</u> .	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
0/ Utilization machine:	100	100	100	100	25	25
Wypership cost/hour:	\$209.47	\$635.20	\$496.62	\$496.62	\$170.30	\$130.32
Operating cost/hour:	\$209.47	\$581.06	\$324.90	\$324.90	\$29.91	\$130.32
%Utilization-riper:	φ274.17 ΝΑ	0	\$324.90 NA	\$324.90 NA	\$29.91 NA	\$35.44 NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	2	1	1	1	1	1
Group Subtotals:	Work:	\$2,270.96	Support:	\$1,720.22	Maint:	\$423.94
Total work team cost	t/hour: <u>\$4,415.1</u>	12				
Initial volume: Loose volume:	38,534 <b>43,35</b>	CCY LCY	Swell	factor: <u>1.125</u>		
Sou	rce of estimated	volume: Exhil	bit 13C			
Source	of estimated swe	Il factor: Cat H	Iandbook			
	Material Purcha	ase Cost: <u>\$0.00</u>	)			
	10	$\frac{50.00}{50.00}$	)			
HOURLY PRO	DUCTION					
<u>Truck Capacity:</u> <u>Truck Payload (weig</u> Material w	<u>ht) Basis:</u> eight: <u>2,550</u>		Pounds/LCY			
Descri	ption: Earth -	Dry packed				
Datad D-	100001		Liciin de			

Truck Bed (volume) Basis:						
Struck Volume:	153.00 L	.CY				
Heaped Volume:	192.00 L	.CY				
Average Volume:	172.50 L	.CY				
Adjusted Volume:	192.00 L	.CY				
Final	Fruck Volume I	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity			D	ant Sing Classes N	٨	
Rated Canacity:	53 000	I CV (heaped)	Buck	tet Size Class: <u>N</u>	A	_
Bucket Fill Factor:	1 100	Other - rock/dirt	mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	mixtures (100	-12070) 1.100		-
Job Condition Corrections:		Sit	e Altitude (ft.). 7	7600 feet		
<u>Job Condition Corrections.</u>	Truck	Loader	Source	<u>1000</u> Ieet		
Altitude Adi:	1 000	0.980	(CAT HR	3		
Job Efficiency:	0.830	0.830	(CAT HB	<u>)</u>		
			(	·		
Net Correction:	0.830	0.813				
Loading Tool Cycle Time:	Number	of Loading Tool Pas	ses Required to 1	Fill Truck:	3 r	asses
Excavators and Front Shovel	s.				r	
Executators and From Shoven	<u>.</u>					
Machine Cycle Time vs Selected Value w	. Job Condition vithin this Basic	Rating: <u>NA</u> Rating: NA				
Track Loaders – N	Material Descrip	otion:				
Cycle Time Elements (min.):	_					
Load: NA	Ma	neuver: NA		Dump: 0.100		
	-	·		<u> </u>		
Wheel and Track Loaders -	Unadjusted Bas	ic Loader Cycle Tin	ie (load, dump, n	naneuver): $0$ .	<u>725</u> mini	ites
Cycle Time Factors	Material (22 au	1	•	Factor (min.)	Source	_
Material:	Material 6" and	d over diameter 0.03		0.030	(Cat HB)	_
Stockpile:	Conveyor or de	ozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	-
Truck Ownership:	Common owne	ership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant opera	$\frac{1100 - 0.04}{0.00}$		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	Not Cuolo Tim	a A divertment	0.000	(Cat HB)	_
		A diverte d L and	e Aujustinent:	-0.030	minutes	
		Adjusted Load	r Cycle Time:	0.075	minutes	
		Iner Load 11	me per fruck:	1.430	minutes	
Truck Cycle Time:						
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
Truck Load Time:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	for site altitude:	1.200	Minute
Transle Transl (Houl & Datum)	\ Time or	D 1 (C 1'(' T				
Truck Travel (Haur & Return)	<u>) Time:</u>	Road Condition: <u>F</u>	lard, smooth, sta	bilized, surfaced, w	atered,	

	Haul Rou	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	1380	.00	-6.00	2.00	-4.00	2545	0.655	
	Return Ro	oute:				Haul Time:	0.655	minute	S S
Γ	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
	_	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	1380	.00	6.00	2.00	8.00	2327	1.133	
L	adina Tao	1			Total Tru	Return Time: ck Cycle Time:	1.133 5.268	minu minu	ites
Truck	Produ Produ Unit Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	<u>7</u> LCY/Hour
Truck		etion	1,992.18	LCY/Hour		Adjusted for j	ob efficiency:	1,653.5	LCY/Hour
Optima	l No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly true	k team production	on: 3,307	7.02 LC	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,307$	<u>7.02</u> LC	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: <b>3,30</b>	<u>.02</u> LC	Y/Hour
	JOB TIN	ME AI	ND COST						
	Fleet	size:	1	Team(s)	]	Fotal job time:	13.12	<u>1</u> 1	Hours
	Unit	cost:	\$1.335	/LCY	,	Total job cost:	\$57,8	76	

Task description:	Haul/Re	grade Topsoil to	o Collom Haul R	oad: 336+00 - 39	6+89	
Site: Colowyo Coal M	line	Permit Action	on: <u>MT9</u>		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	TIFICATION					
Task #: 413		State: Colora	ado	Ab	breviation: No	ne
Date: $3/11/2$	2025 0	County: <u>Moffa</u>	t		Filename: 413	3
User: <u>HKI</u>						
Agency or	organization nan	ne: DRMS				
<u>HOURLY EQUI</u>	PMENT COST	-		Shift bas	is: <u>1 per day</u>	
		]	Equipment Descri	ption		
Ί	Truck Loader Tear	m - Truck: KO	MATSU 830E	50		
Supp	ort Equipment -L	oad Area: Cat	$\frac{100 \text{KNEAU L25}}{110}$	30		
	-Du	Imp Area: Cat	D11T - 11U			
Road M	aintenance – Moto	or Grader: CA'	Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.		
Cost Brookdown	Truck/Loo	der Team	Support 1	Fauinment	Maintanan	ce Fauinment
<u>Cost Dreakdown</u> .	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
V Litilization machine:	100	100	100	100	25	25
Ownership cost/hour:	\$209.47	\$635.20	\$496.62	\$496.62	\$170.30	\$130.30
Operating cost/hour:	\$209.47	\$581.06	\$324.90	\$324.90	\$29.91	\$130.32
%Utilization-riper:	\$274.17 NA	0	\$324.90 NA	\$324.90 NA	φ29.91 ΝΑ	\$55.44 NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$237.06	\$186.88
Number of Units:	3	1	1	1	1	1
Group Subtotals:	Work:	\$2,779.84	Support:	\$1,720.22	Maint:	\$423.94
Total work taam co	st/hour: \$1 971 (	0				
	st/110u1. <u>\$4,724.(</u>	<u> </u>				
MATERIAL QU	ANTITIES					
Initial volumo	. 80.615	CCV	Swall	factor: 1125		
Loose volume	: <u>100.81</u>	7 LCY	Swell	1.125		
So	uras of astimated	volumo: Evhil	hit 12C			
Source	of estimated swe	ll factor: Cat H	Handbook			
	Material Purcha	ase Cost: \$0.00	)			
	То	tal Cost: \$0.00	)			
	DUCTION					
HUUKLI EKU						
Truck Capacity:	abt) Desire					
<u>Iruck Payload (wei</u> Material v	$\frac{g_{III}}{g_{III}} = \frac{Bas_{IS}}{Bas_{IS}}$		Pounds/LCY			
Descr	iption: Earth -	Dry packed				
Rated Pa	yload: 492,200	)	Pounds			
Payload Ca	pacity: 193.02		LCY			

Struck Volume:						
	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
5						
Fina	l Truck Volume	Based on Number o	of Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: N	A	
Rated Canacity:	53,000	I CV (heaped)	200			-
Bucket Fill Factor	1 100	Other - rock/di	rt mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	trinixtules (100	-120/0) 1.100		-
J 1 J						
Job Condition Corrections	<u>:</u>	S	ite Altitude (ft.):	7600 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	B)		
Net Correction:	0.830	0.813				
Looding Tool Cycle Time	NT 1	of Loading Teal D	Decos Docuine 1 4	Eill Tenzala	2	00000
Loading 1001 Cycle 1 line:	Number	of Loading 1001 Pa	isses Required to	F111 I fuck:	<u> </u>	asses
Excavators and Front Shove	<u>els:</u>					
Machine Cycle Time v Selected Value	vs. Job Condition	n Rating: <u>NA</u>				
	Witnin this Basi	$\sim Rating \sim N\Delta$				
Track Loaders –	Material Descri	c Rating: <u>NA</u>				
Track Loaders – Cycle Time Elements (min.)	Material Descri	c Rating: <u>NA</u>				
Cycle Time Elements (min.) Load: NA	Material Descri	ption: <u>NA</u>		 Dump: 0.100	)	
Cycle Time Elements (min.) Load: <u>NA</u>	Material Descri	aneuver: <u>NA</u>		Dump:0.100	)	
Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	Material Descri : M - Unadjusted Ba	c Rating: <u>NA</u> ption: faneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	Dump:0.100 naneuver):0	) .725 minu	ites
Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	Material Descri : M - Unadjusted Ba	c Rating: <u>NA</u> iption: faneuver: <u>NA</u> sic Loader Cycle Ti	me (load, dump, r	Dump:0.100 naneuver):0 Factor (min.)	) .725 minu Source	ites
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	Material Descri Material Descri M Unadjusted Ba	c Rating: <u>NA</u> iption: ianeuver: <u>NA</u> sic Loader Cycle Tit	me (load, dump, 1	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source (Cat HB)	ites 
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	Material Descri Material Descri Material Ba Material 6" ar Conveyor or c	c Rating: <u>NA</u> iption: <u>NA</u> ianeuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig	me (load, dump, r 13 25 and up 0.00	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	ites 
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descri Material Descri Material Ba Material 6" ar Conveyor or c Common owr	c Rating: <u>NA</u> iption: <u>NA</u> ianeuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and	me (load, dump, r 3 21 and up 0.00 1 loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites  
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descri Material Descri Material Or an Material 6" ar Conveyor or a Common own	c Rating: <u>NA</u> iption: <u>NA</u> ianeuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04	me (load, dump, r )3 2h and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites   
Track Loaders -         Cycle Time Elements (min.)         Load:       NA         Wheel and Track Loaders         Cycle Time Factors         Material:         Stockpile:         Truck Ownership:         Operation:         Dump Target:	Material Descri Material Descri Material Or an Material 6" ar Conveyor or o Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> faneuver: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	me (load, dump, r )3 gh and up 0.00 l loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites    
Track Loaders -         Cycle Time Elements (min.)         Load:       NA         Wheel and Track Loaders         Cycle Time Factors         Material:         Stockpile:         Truck Ownership:         Operation:         Dump Target:	Material Descri Material Descri Material Or an Material 6" ar Conveyor or o Common own Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> faneuver: <u>NA</u> sic Loader Cycle Tinn nd over diameter 0.0 dozer piled 10 ft. hig pership of trucks and ration -0.04 et 0.00 Net Cycle Tin	me (load, dump, r 13 24 and up 0.00 1 loaders -0.04 1 ne Adjustment:	Dump:0.100 naneuver):0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.050 -0.050	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites    
Track Loaders -         Cycle Time Elements (min.)         Load:       NA         Wheel and Track Loaders         Cycle Time Factors         Material:         Stockpile:         Truck Ownership:         Operation:         Dump Target:	Material Descri Material Descri - Unadjusted Ba Material 6" ar Conveyor or c Common owr Constant oper Nominal targe	c Rating: <u>NA</u> ption: <u>NA</u> faneuver: <u>NA</u> sic Loader Cycle Tir nd over diameter 0.0 dozer piled 10 ft. hig pership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load	me (load, dump, r 13 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	Ites    
Track Loaders -         Cycle Time Elements (min.)         Load:       NA         Wheel and Track Loaders         Cycle Time Factors         Material:         Stockpile:         Truck Ownership:         Operation:         Dump Target:	Material Descri Material Descri Material Organization Material 6" ar Conveyor or o Common own Constant oper Nominal targe	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725       minu         Source       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       (Cat HB)         (Cat HB)       minutes         minutes       minutes         minutes       minutes	ites    
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri - Material Official Material 6" ar Conveyor or of Common own Constant oper Nominal targe	aneuver: NA iption: ianeuver: NA sic Loader Cycle Ti nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	.725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       minutes     minutes       minutes     minutes	ites   
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	Material Descri Material Descri - Unadjusted Ba Material 6" ar Conveyor or c Common own Constant oper Nominal targe	c Rating: <u>NA</u> iption: <u>NA</u> istic Loader Cycle Tir nd over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.800	ites 
Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	<ul> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Ba</li> <li>Material 6" ar</li> <li>Conveyor or o</li> <li>Conveyor or o</li> <li>Constant oper</li> <li>Nominal target</li> <li>e: 0.80</li> <li>e: 1.450</li> </ul>	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> sic Loader Cycle Ti and over diameter 0.00 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	.725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes       0.800     1.480	Ites 
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	<ul> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Ba</li> <li>Material 6" ar</li> <li>Conveyor or c</li> <li>Common own</li> <li>Constant oper</li> <li>Nominal targe</li> <li>e: 0.80</li> <li>e: 1.450</li> <li>e: 1.20</li> </ul>	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> isic Loader Cycle Ti ind over diameter 0.0 dozer piled 10 ft. hig iership of trucks and cation -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes Minutes Minutes Minutes	me (load, dump, r 3 3 3 3 4 and up 0.00 1 loaders -0.04 1 loaders -0.04 1 loaders -0.04 2 1 loaders -0.04 2 3 3 4 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	Dump:       0.100         maneuver):       0         Factor (min.)       0.030         0.000       0.000         -0.040       0.000         -0.050       0.675         1.450       1.450         for site altitude:	.725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes       0.800     1.480       1.200     1.200	Minutes Minutes Minutes
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	<ul> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Ba</li> <li>Material 6" ar</li> <li>Conveyor or constant oper</li> <li>Nominal target</li> <li>e: 0.80</li> <li>e: 1.450</li> <li>e: 1.20</li> </ul>	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> sic Loader Cycle Time and over diameter 0.0 dozer piled 10 ft. high hership of trucks and cation -0.04 et 0.00 Net Cycle Time Adjusted Load Net Load To Minutes Minutes Minutes Minutes Minutes	me (load, dump, r 3 2 3 2 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Dump:       0.100         maneuver):       0         Factor (min.)       0.030         0.000       -0.040         -0.040       0.000         -0.050       0.675         1.450	.725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       0.800     1.480       1.200	ttes 
Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	<ul> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Ba</li> <li>Material 6" ar</li> <li>Conveyor or c</li> <li>Common own</li> <li>Constant oper</li> <li>Nominal target</li> </ul>	c Rating: <u>NA</u> iption: <u>NA</u> intervention: <u>NA</u> isic Loader Cycle Ti ind over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes Minutes Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 me Adjustment: ler Cycle Time: Time per Truck: Adjusted Adjusted Adjusted Hard, smooth, sta	Dump:       0.100         maneuver):       0         Factor (min.)       0.030         0.000       0.000         -0.040       0.000         -0.050       0.675         1.450       1.450         for site altitude:	.725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       0.800     1.480       1.200     atered,	Minutes Minutes Minutes

	Haul Rout	te:								
	Seg #	Haul D (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
	1	2100.0	0	2.00	2.00	4.00	1786	1.469		
						Haul Time:	1.469	minut	es	
	Return Route:									
	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
					(%)	(%)	(fpm)	Time (min)		
	1 2		0	-2.00	2.00	0.00	3503	0.803		
					Total Tru	Return Time: ck Cycle Time:	0.803 5.752	min min	utes	
Lo: Truck I	ading Too Produ Unit Produ	l unit option	4,603.46	LCY/Hour	Adjusted for job efficiency: <u>3,820.87</u> LCY/Hour					
			1,824.54	LCY/Hour	Adjusted for job efficiency: <u>1,514.37</u> LCY/Hour					
Optimal No. of Trucks:			3	Truck(s)	Selected Number of Trucks: <u>3</u> Truck(			Truck(s)		
				Adjuste	d hourly truc	k team production	on: 4,543	3.10 L	LCY/Hour	
				Adjusted single truck/loader team produ			ion: 3,820.87		CY/Hour	
				Adjusted multip	le truck/loade	team production: 3,820		<b>).87</b> L	87 LCY/Hour	
JOB TIME AND COST										
Fleet size:		size:	1	Team(s)	- -	Total job time:		9	Hours	
Unit cost:		cost:	\$1.289	/LCY	,	Total job cost:	\$129,9	024		
rask description:	Regrade Collom Facility A	Ita								
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: Colowyo Coal Mine	Permit Action	: <u>MT9</u>	Permit/Job#:	C1981019						
PROJECT IDENTIFI	ICATION									
Task #: 415	State: Colorad	0	Abbreviation:	None						
Date: 3/11/2025	County: Moffat	-	Filename:	415						
User: HR1										
Agency or organ	nization name: DRMS									
HOURLY EQUIPME	ENT COST									
Basic Machine: Cat	: D11T - 11U									
Horsepower: 850	)									
Blade Type: Uni	iversal									
Attachment: <u>1-sl</u>	hank ripper									
Shift Basis: <u>1 pe</u>	er day									
Data Source: (CF	RG)									
Cost Breakdown:										
_		Utilization %								
Ownership Cost/Hour:	\$496.62	2 NA								
Operating Cost/Hour:	\$324.90	) 100								
Ripper own. Cost/Hour:	\$27.44	4 NA								
Ripper op. Cost/Hour:	\$0.00	) 0								
Operator Cost/Hour:	\$38.59	) NA								
Total Unit Cost/Hour: Total Fleet Cost/Hour:	\$887.55 \$3,550.18									
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$887.55 \$3,550.18									
Initial Volume: <u>1,46</u>	\$887.55 <b>\$3,550.18</b> TTIES 7,700									
Initial Volume: 1,46 Swell factor: 1.250	\$887.55 <b>\$3,550.18</b> TTIES 7,700 0									
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.250         Loose volume:       1,834	\$887.55 <b>\$3,550.18</b> TTIES 7,700 0 <b>4,625</b> LCY									
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.250         Loose volume:       1,834         Source of estimated volum	\$887.55 <b>\$3,550.18</b> TTIES 7,700 0 <b>4,625</b> LCY me: Division of Reclam	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.25'         Loose volume:       1,83'         Source of estimated volur         Source of estimated swell	\$887.55 <b>\$3,550.18</b> TTIES 7,700 0 <b>4,625</b> LCY me: Division of Reclam I factor: Cat Handbook	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.250         Loose volume:       1,834         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT	\$887.55 <b>\$3,550.18</b> TTIES 7,700 0 <b>4,625</b> LCY me: Division of Reclam 1 factor: Cat Handbook <b>FION</b>	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.25'         Loose volume:       1,83'         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Augross such distance	<u>\$887.55</u> <b>\$3,550.18</b> <b>TTIES</b> 7,700 0 <b>4,625</b> LCY me: <u>Division of Reclam</u> 1 factor: <u>Cat Handbook</u> <b>EION</b>	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.25'         Loose volume:       1,83'         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly preduct	\$887.55 <b>\$3,550.18</b> TTIES 7,700 0 <b>4,625</b> LCY me: Division of Reclam 1 factor: Cat Handbook <b>EION</b> 2 870 3 L CY/br	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.25'         Loose volume:       1,83'         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$887.55           \$3,550.18           TTIES           7,700           0           4,625 LCY           me:         Division of Reclam           1 factor:         Cat Handbook           FION         100 feet           ction:         2,870.3 LCY/hr	<u>ation, Mining &amp; Safety</u>								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.25         Loose volume:       1,83         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency dest	\$887.55           \$3,550.18           TTIES           7,700           0           4,625 LCY           me:         Division of Reclam           1 factor:         Cat Handbook           Cat Handbook           Clon           100 feet           ction:         2,870.3 LCY/hr           scription:         Loose stockpile 1	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.25'         Loose volume:       1,83         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:	<u>\$887.55</u> <b>\$3,550.18</b> <b>TTIES</b> 7,700 0 <b>4,625</b> LCY me: Division of Reclam 1 factor: Cat Handbook <b>TION</b> ction: 2,870.3 LCY/hr scription: Loose stockpile 1 25 %	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.25         Loose volume:       1,83         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	$\frac{\$887.55}{\$3,550.18}$ $\frac{\textbf{TTIES}}{7,700}$ 0 $4,625 \text{ LCY}$ me: Division of Reclam I factor: Cat Handbook $\frac{\textbf{Division of Reclam}}{Cat \text{ Handbook}}$									
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.25         Loose volume:       1,83         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:	$\frac{\$887.55}{\$3,550.18}$ $\overline{TTIES}$ 7,700 0 4,625 LCY me: Division of Reclam 1 factor: Cat Handbook $\overline{IION}$ ction: 100 feet ction: 2,870.3 LCY/hr scription: Loose stockpile 1 $\frac{25 \%}{7,600 \text{ feet}}$ 2,650 lbs/LCY	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46'         Swell factor:       1.25'         Loose volume:       1,83'         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:	\$887.55         \$3,550.18         TTIES         7,700         0         4,625 LCY         me:       Division of Reclam         1 factor:       Cat Handbook         FION         ction:       2,870.3 LCY/hr         scription:       Loose stockpile 1         25 %       7,600 feet         2,650 lbs/LCY       Decomposed rock - 25% Ro	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.250         Loose volume:       1,830         Source of estimated volum       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Iotal construction	$\frac{\$887.55}{\$3,550.18}$ $\frac{\textbf{TTIES}}{7,700}$ $0$ $4,625 \text{ LCY}$ $\text{me:} Division of Reclam}{1 \text{ factor:}}$ $\frac{\text{Division of Reclam}{Cat \text{ Handbook}}$ $\frac{\textbf{ION}}{\text{Cat Handbook}}$ $\frac{100 \text{ feet}}{2,870.3 \text{ LCY/hr}}$ $\frac{100 \text{ feet}}{2,870.3 \text{ LCY/hr}}$ $\frac{25 \%}{7,600 \text{ feet}}$ $\frac{25 \%}{7,600 \text{ feet}}$ $\frac{2,650 \text{ lbs/LCY}}{2,650 \text{ lbs/LCY}}$ $\frac{\text{Decomposed rock - 25\% Ro}}{\text{Factor}}$	ation, Mining & Safety								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.25         Loose volume:       1,83         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S	$\frac{\$887.55}{\$3,550.18}$ $\frac{\textbf{TTIES}}{7,700}$ $0$ $4,625 \text{ LCY}$ $\text{me: Division of Reclam} \\ 1 \text{ factor: Cat Handbook}$ $\frac{100 \text{ feet}}{\text{Cat Handbook}}$ $\frac{100 \text{ feet}}{2,870.3 \text{ LCY/hr}}$ $\frac{25 \%}{7,600 \text{ feet}}$ $\frac{25 \%}{7,600 \text{ feet}}$ $\frac{2,650 \text{ lbs/LCY}}{\text{Decomposed rock - 25\% Ro}}$ $\frac{\text{Factor}}{\text{Skill: 0.900}}$	<u>ation, Mining &amp; Safety</u> 								
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.25         Loose volume:       1,83         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency destance:         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S         Material consistence       Staterial consistence	\$887.55         \$3,550.18         TTIES         7,700         0         4,625 LCY         me:       Division of Reclam         1 factor:       Cat Handbook         Cat Handbook         Citon:       2,870.3 LCY/hr         scription:       Loose stockpile 1         25 %       7,600 feet         2,650 lbs/LCY       Decomposed rock - 25% Ro         Factor       Skill:       0.900         ency:       1.200	ation, Mining & Safety	2 3.) B)							
Iotal unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       1,46         Swell factor:       1.25         Loose volume:       1,83         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S         Material consistence       Dozing met	\$887.55           \$3,550.18           TTIES           7,700           0           4,625 LCY           me:         Division of Reclam           1 factor:         Cat Handbook           TION         100 feet           ction:         2,870.3 LCY/hr           scription:         Loose stockpile 1           25 %         7,600 feet           2,650 lbs/LCY         Decomposed rock - 25% Ro           Factor         Skill:         0.900           ency:         1.200         1.000	ation, Mining & Safety	<u>2</u> <u>3.)</u> <u>B)</u>							

Task # 415

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 1.000	(DOZ-OC)
Push gradier	nt: 0.422	(CAT HB)
Altitud	e: 0.930	(CAT HB)
Material Weigh	nt: 0.868	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n: <u>0.3054</u>	
Adjusted unit production:	876.59 LCY/hr	
Adjusted fleet production:	3506.36 LCY/hr	

Fleet size:	4 Dozer(s)
Unit cost:	\$1.012/LCY

Total job time:	<b>523.23</b> Hours
Total job cost:	\$1,857,554

#### TRUCK/LOADER TEAM WORK

Task description:	_Load/H	aul/Regrade Top	osoil to Collom F	acility from TS 2	5A	
Site: Colowyo Coal M	ine	Permit Acti	on: MT9		Permit/Job#: <u>C1</u>	981019
PROJECT IDEN	TIFICATION	<u>[</u>				
Task #: 416		State: Colora	ado	Ab	breviation: No	ne
Date: $3/11/2$	025	County: Moffa	it	110	Filename: 416	5
User: HR1						
Agency or	organization nar	me: DRMS				
HOURLY EQUI	PMENT COS	<u>Γ</u>		Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck: KO	MATSU 830E	•		
		-Loader: LE	FOURNEAU L23	50		
Suppo	ort Equipment -1 Di-	Load Area: Cat	D11T - 11U			
Road Ma	aintenance – Mot	or Grader: CA	T 16M			
	-Wa	ater Truck: Wa	ter Tanker, 14,000	) Gal.		
Cost Breekdown•	Truck/Lo	ader Team	Support	Fauinment	Maintenan	ce Fauinment
<u>Cost Di cakdown</u> .	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	5	1	1	2	1	1
Group Subtotals:	Work:	\$3,797.60	Support:	\$2,580.33	Maint:	\$489.29
Total work team cos	t/hour: <u><b>\$6,867.</b></u>	22				
MATERIAL QU	ANTITIES					
Initial volume: Loose volume:	<u>327,278</u> <b>368,1</b>	CCY 88 LCY	Swell	factor: <u>1.125</u>		
Sol	rce of estimated	l volume: Divis	sion of Reclamatic	on Mining & Safe	NTV .	
Source	of estimated swe	ell factor: Cat I	Handbook	in, winning & Bure	, sty	
	Material Purch	ase Cost: \$0.00	0			
	То	otal Cost: <u>\$0.00</u>	0			
HOURLY PRO	<b>DUCTION</b>					
Truck Capacity:						
Truck Payload (weig	ght) Basis:					
Material w	eight: <u>2,550</u>	<u> </u>	Pounds/LCY			
Descri Deted Des	ption: Earth -	Dry packed	Dounda			
Rated Pa Pavload Car	acity: <u>492,20</u>		LCY			
i uyiouu Cup	<u> </u>					

Heaped Volume:       19         Average Volume:       17         Adjusted Volume:       19         Final Truc         Loading Tool Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Job Condition Corrections:         Job Efficiency:         0.8         Net Correction:         0.8         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi:       NA	92.00         L0           72.50         L0           92.00         L0           92.00         L0           ack Volume B         53.000           1.100         58.300           ruck         .000           .830         .830           .830	CY CY CY Sased on Number of I Other - rock/dirt Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	Loader Passes: Buck mixtures (100 e Altitude (ft.): <u>7</u> (CAT HB (CAT HB (CAT HB		LCY A	
Average Volume:       17         Adjusted Volume:       19         Final True         Loading Tool Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Job Condition Corrections:         Job Efficiency:         0.8         Net Correction:         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job         Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi	72.50       L0         92.00       L0         53.000       100         58.300	CY CY CY Based on Number of D Dther - rock/dirt Dther - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	Loader Passes: Buck mixtures (100 e Altitude (ft.): 7 CAT HB (CAT HB (CAT HB	<u>174.90</u> cet Size Class: <u>Na</u> -120%) 1.100 7600 feet ) ) Fill Truck:	_ LCY A	 - - vasses
Adjusted Volume:       19          Final True          Rated Capacity:         Bucket Fill Factor:       Bucket Fill Factor:         Adjusted Capacity:       Image: Column         Job Condition Corrections:         Job Condition Corrections:         Job Efficiency:       0.8         Altitude Adj:       1.0         Job Efficiency:       0.8         Net Correction:       0.8         Loading Tool Cycle Time:       Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate       Cycle Time Elements (min.):         Loadi       NA	92.00       L0         1.100       58.300         ruck       .000         .830       .830         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .830       .000         .900       .000         .900       .000         .900       .000         .900       .000         .900       .000         .900       .000         .900	CY Sased on Number of I CY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 Of Loading Tool Pass Rating: NA Rating: NA	Loader Passes: Buck mixtures (100 e Altitude (ft.): 7 Source (CAT HB (CAT HB (CAT HB		_ LCY A	
Final True Loading Tool Capacity  Rated Capacity: Bucket Fill Factor: Adjusted Capacity: Job Condition Corrections: Job Condition Corrections: Job Efficiency: O.8 Net Correction: Code Selected Value withi Track Loaders – Mate Cycle Time Elements (min.): Loadi NA	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         <	LCY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> right NA	Loader Passes: Buck mixtures (100 e Altitude (ft.): <u>7</u> Altitude (ft.): <u>7</u> (CAT HB (CAT HB (CAT HB	<u>174.90</u> xet Size Class: <u>Na</u> -120%) 1.100 7600 feet ) ) Fill Truck:	_ LCY A	 - - passes
Final Truc         Loading Tool Capacity:         Bucket Fill Factor:	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .100         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90 <t< th=""><th>LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> ri</th><th>Buck mixtures (100 Altitude (ft.): <u>7</u> CAT HB (CAT HB (CAT HB</th><th><u>174.90</u> cet Size Class: <u>N</u> -120%) 1.100 7600 feet () () () Fill Truck:</th><th>LCY A</th><th>- - vasses</th></t<>	LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> ri	Buck mixtures (100 Altitude (ft.): <u>7</u> CAT HB (CAT HB (CAT HB	<u>174.90</u> cet Size Class: <u>N</u> -120%) 1.100 7600 feet () () () Fill Truck:	LCY A	- - vasses
Loading Tool Capacity         Rated Capacity:         Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Job Condition Corrections:         Job Edition Corrections:         Image: Adjusted Capacity:         Job Condition Corrections:         Job Edition Corrections:         Net Correction:         Image: Dol Edition Correction:         Dol Edition Correction:         Job Efficiency:         0.8         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi:       NA	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .100         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90 <t< td=""><td>LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA</td><td>Buck mixtures (100 e Altitude (ft.): 7 Source (CAT HB (CAT HB</td><td>xet Size Class:         -120%) 1.100         7600 feet         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()</td><td>A</td><td></td></t<>	LCY (heaped) Other - rock/dirt LCY Site 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA	Buck mixtures (100 e Altitude (ft.): 7 Source (CAT HB (CAT HB	xet Size Class:         -120%) 1.100         7600 feet         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()         ()	A	
Rated Capacity:	53.000         1.100         58.300         ruck         .000         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .91         .92         .93         .93         .94         .95         .95         .95         .95         .95         .95         .95         .95         .95         .95 <t< td=""><td>LCY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA</td><td>Buck mixtures (100 e Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I</td><td>Ket Size Class:</td><td><u>3</u> p</td><td> - passes</td></t<>	LCY (heaped) Other - rock/dirt LCY Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: NA Rating: NA	Buck mixtures (100 e Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I	Ket Size Class:	<u>3</u> p	 - passes
Bucket Fill Factor:         Adjusted Capacity:         Job Condition Corrections:         Image: Altitude Adj:         Altitude Adj:         Job Efficiency:         0.3         Net Correction:         Image: Description of the second secon	1.100 <b>58.300</b> ruck         .000         .830         .830         .830         .830         .830         .830         .100         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .830         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90         .90	DCT (neaped)         Other - rock/dirt         LCY         Site         0.980         0.830         0.813         of Loading Tool Pass         Rating:       NA         Rating:       NA	e Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I	-120%) 1.100 7600 feet () () Fill Truck:	<u>3</u> p	asses
Job Condition Corrections:         Job Condition Corrections:         Image: Adjusted Capacity:         Job Condition Corrections:         Altitude Adj:         Job Efficiency:         0.3         Net Correction:         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job         Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi:       NA	1.100       58.300       ruck       .000       .830       .830       .830       .830       .bb Condition I in this Basic I terial Descript	Under Flock/ult           LCY           Site           0.980           0.830           0.813           of Loading Tool Pass           Rating:         NA	Altitude (ft.): <u>7</u> Source (CAT HB (CAT HB ses Required to I	7 <u>600</u> feet	<u>3</u> p	asses
Job Condition Corrections:         Tr         Altitude Adj:       1.0         Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:       0.4         Excavators and Front Shovels:       Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):         Loadi:       NA	ruck       .000       .830       .830       .830       .830       .830       .900 Condition I in this Basic I terial Description	Site Loader 0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	e Altitude (ft.): 7 Source (CAT HB (CAT HB	7 <u>600</u> feet	<u>3</u> p	passes
Job Condition Corrections:         Image: Tree Altitude Adj:       1.0         Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate         Cycle Time Elements (min.):         Loading Tool	ruck       .000       .830       .830       .830       .830       .830       .900 Condition I       in this Basic I       terial Descript	Loader         0.980         0.830         0.813         of Loading Tool Pass         Rating:       NA         NA	Source (CAT HB (CAT HB (CAT HB)	Fill Truck:	<u>3</u> p	passes
Ir       Altitude Adj:     1.0       Job Efficiency:     0.3       Net Correction:     0.3       Loading Tool Cycle Time:       Excavators and Front Shovels:       Machine Cycle Time vs. Jol       Selected Value withi       Track Loaders – Mate       Cycle Time Elements (min.):       Loadi:	ruck         .000         .830         .830         .830         .830         .90 Condition I         in this Basic I         terial Descript	Loader         0.980         0.830         0.813         of Loading Tool Pass         Rating:       NA         Rating:       NA	Source (CAT HB (CAT HB	() () Fill Truck:	<u>    3                                </u>	asses
Altitude Adj:       1.4         Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:         Excavators and Front Shovels:         Machine Cycle Time vs. Jol         Selected Value withi         Track Loaders – Mate         Cycle Time Elements (min.):         Loadi	.830 .830 .830 Number o ob Condition I in this Basic I terial Descript	0.980 0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	(CAT HB (CAT HB	5) Fill Truck:	<u>3</u> p	passes
Job Efficiency:       0.3         Net Correction:       0.3         Loading Tool Cycle Time:       1         Excavators and Front Shovels:       1         Machine Cycle Time vs. Jol       Selected Value withi         Track Loaders – Mate       1         Cycle Time Elements (min.):       1	.830 .830 Number o ob Condition I in this Basic I terial Descript	0.830 0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	CAT HB	Fill Truck:	<u>3</u> p	asses
Net Correction:       0.1         Loading Tool Cycle Time:	.830 Number o ob Condition I in this Basic I terial Descript	0.813 of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	ses Required to I	Fill Truck:	<u>   3                                 </u>	passes
<u>Loading Tool Cycle Time:</u> <u>Excavators and Front Shovels:</u> Machine Cycle Time vs. Job Selected Value withi Track Loaders – Mate Cycle Time Elements (min.): Load: NA	Number o ob Condition I in this Basic I terial Descript	of Loading Tool Pass Rating: <u>NA</u> Rating: <u>NA</u>	es Required to l	Fill Truck:	<u>3</u> p	passes
<u>Excavators and Front Shovels:</u> Machine Cycle Time vs. Jol Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):	bb Condition I in this Basic I terial Descript	Rating: <u>NA</u> Rating: <u>NA</u>	les kequired to l	гии 1 гиск:	<u> </u>	vasses
Excavators and Front Shovels: Machine Cycle Time vs. Jol Selected Value withi Track Loaders – Mate Cycle Time Elements (min.): Load: NA	bb Condition I in this Basic I terial Descript	Rating: <u>NA</u> Rating: <u>NA</u>				
Machine Cycle Time vs. Jo Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):	bb Condition I in this Basic I terial Descript	Rating: <u>NA</u> Rating: <u>NA</u>				
Selected Value withi Track Loaders – Mate Cycle Time Elements (min.):	in this Basic I terial Descript	Rating: <u>NA</u>				
Track Loaders – Mate Cycle Time Elements (min.):	terial Descript	· ·				
Cycle Time Elements (min.):		tion:				
Lord: NA						
LUau. INA	Mar	neuver: NA		Dump: 0.100		
	1. ( I.D. )		(1 1 1			
Wheel and Track Loaders - Una	adjusted Basi	c Loader Cycle Tim	e (load, dump, n	naneuver): $0.$	<u>725</u> minu	ites
Cycle Time Factors		1 1: 0.02		Factor (min.)	Source	_
Material: Ma	aterial 6" and	l over diameter 0.03	1 0.00	0.030	(Cat HB)	_
Truch Ormanhing Co	onveyor or do	Dzer piled 10 ft. nigh	and up 0.00	0.000	(Cat HB)	_
Operation: Co		tion 0.04	baders -0.04	-0.040	(Cat HB)	_
Dump Target: No	ominal target	0.00		-0.040	(Cat HB)	_
Dump Target. No	ommar target	Net Cycle Time	Adjustment	0.000	(Cat HB)	_
		Adjusted Loader	Cycle Time:	0.675	minutes	
		Net Load Tir	ne per Truck:	1.450	minutes	
Truck Cycle Time.			_			
	0.00		A 1* . •	C	0.000	7.
Truck Exchange Time:	0.80	Minutes	Adjusted	for site altitude:	0.800	Minute
I ruck Load 1 ime:	1.450	Minutes	Adjusted	for site altitude:	1.480	Minute
ck Maneuver and Dump Time:	1.20	Minutes	Adjusted	ior site altitude:	1.200	Minute
Truck Travel (Haul & Daturn) Ti	me.	Road Condition U	ard smooth stal	hilized surfaced w	atered	

_	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	6500.	00	5.00	2.00	7.00	1160	5.791	
						Haul Time:	5.791	minut	es
	Return Ro	oute:							
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	6500.	00	-5.00	2.00	-3.00	3503	1.913	
_					Total Tru	Return Time: ck Cycle Time:	1.913 11.184	mint	utes
Lo Truck I	ading Too Produ Unit Produ	l unit option	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
			938.34	LCY/Hour		Adjusted for j	ob efficiency:	778.82	LCY/Hour
Optimal	l No. of Tr	ucks:	5	Truck(s)		Selected Num	ber of Trucks:	5	Truck(s)
				Adjuste	d hourly truc	k team production	on: 3,894	4.11 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 3,820	0.87 LO	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 3,820	0.87 LO	CY/Hour
	JOB TIN	ME AN	ND COST						
	Fleet	size:	1	Team(s)	<b>r</b>	Fotal job time:	96.3	6	Hours
	Unit o	cost:	\$1.797	/LCY		Total job cost:	\$661,7	/41	

Task description:	Section 25 Pond	Removal			
Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	<b>ICATION</b>				
Task #· 417	State:	Colorado		Abbreviation.	None
Date: $3/11/2025$	County:	Moffat		Filename:	417
User: HR1				<u>-</u>	
Agency or orga	nization name:	RMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Ca	t D11T - 11U				
Horsepower: 850	0				
Blade Type: Un	iversal				
Attachment: NA	1				
Shift Basis: <u>1 p</u>	ber day				
Data Source: (Cl	KG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
		\$0.00	0		
Ripper op. Cost/Hour:					
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$860.11 <b>\$860.11</b>	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12	\$860.11 \$860.11 FITIES 00 25	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6	\$860.11 \$860.11 <b>\$860.11</b> <b>TITIES</b> 00 25 588 LCY	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated swel	\$860.11 \$860.11 <b>\$860.11</b> CITIES 00 25 588 LCY me: Exh 7,Ite 1 factor: Cat Hand	\$38.59  m 23,Fig. C9 book	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated swel HOURLY PRODUCT	\$860.11 \$860.11 <b>\$860.11</b> <b>CITIES</b> 00 25 <b>\$88</b> LCY me: Exh 7,Ite: 1 factor: Cat Hand <b>FION</b>	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	\$860.11 <b>\$860.11</b> <b>CITIES</b> 00 25 <b>\$88</b> LCY me: Exh 7,Ite: 1 factor: Cat Hand <b>FION</b> 150 feet	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated swel <b>HOURLY PRODUCT</b> Average push distance: Unadjusted hourly produ	<u>\$860.11</u> <b>\$860.11</b> <b>TITIES</b> 00 25 <b>\$88</b> LCY me: <u>Exh 7,Iter</u> 1 factor: <u>Cat Hand</u> <b><u>FION</u></b> ction: <u>150 feet</u> 2,036.8 LC	\$38.59  m 23,Fig. C9 book Y/hr	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ	\$860.11 \$860.11 \$860.11 <b>SITIES</b> 00 25 <b>88</b> LCY me:	\$38.59 m 23,Fig. C9 book Y/hr cted fill or en			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,60 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average push gradient: Average site altitude:	\$860.11 \$860.11 \$860.11 <b>SITIES</b> 00 25 <b>88</b> LCY me: Exh 7,Ite: 1 factor: Cat Hand <b>FION</b> ction: 150 feet 2,036.8 LC scription: Compa 0 % 6,900 feet	\$38.59 			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight:	\$860.11         \$860.11         \$860.11         TITIES         00         25         88 LCY         me:       Exh 7,Ite:         1 factor:       Cat Hand         TION         ction:       2,036.8 LCY         scription:       Compa         0 %       6,900 feet         2,650 lbs/LCY	\$38.59  m 23,Fig. C9 book Y/hr cted fill or en			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$860.11         \$860.11         \$860.11         CITIES         00         25         88 LCY         me:       Exh 7,Iter         1 factor:       Cat Hand         TION         ction:       2,036.8 LC         scription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock	\$38.59 			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency de: Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$860.11 \$860.11 \$860.11 <b>SET 11</b> <b>SET 11</b>	\$38.59 			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$860.11         \$860.11         \$860.11         CITIES         00         25         588 LCY         me:       Exh 7,Ite:         1 factor:       Cat Hand <b>TION</b> ction:       2,036.8 LC?         scription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock         1 Factor       Skill:       0.	\$38.59 	 		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	\$860.11         \$860.11         \$860.11         TITIES         00         25         88 LCY         me:       Exh 7,Ite:         1 factor:       Cat Hand         TION         ction:       2,036.8 LC?         scription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock         1 Factor       Skill:       0.         Skill:       0.	\$38.59 =	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 9,50 Swell factor: 1.12 Loose volume: 10,6 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency de: Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	\$860.11         \$860.11         \$860.11         CITIES         00         25         88 LCY         me:       Exh 7,Ite:         1 factor:       Cat Hand         TION         ction:       2,036.8 LC?         scription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock         1 Factor       Skill:       0.         scriptiod:       1.	\$38.59 	NA		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.3890	
Adjusted unit production:	792.32 LCY/hr	
Adjusted fleet production:	792.32 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.086/LCY

Total job time:	13.49 Hours
Total job cost:	\$11,602

Page 1 of 2

	Whule I one Kentoval			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION			
Task #: 418	State: Colorado		Abbreviation:	None
Date: 3/11/2025	County: Moffat		Filename:	418
User: HR1				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	: D11T - 11U			
Horsepower: 850	)			
Blade Type: Un	iversal			
Attachment: NA	<u> </u>			
Shift Basis: <u>1 p</u>	er day			
Data Source: (CH	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
MATERIAL QUANT	<u>TTIES</u>			
Initial Volume: 6.60	0			
G 11 G ( 1 10	<b>F</b>			
Swell factor: 1.12	5 5 L C X			
Swell factor: 1.12 Loose volume: 7,42	5 <b>5</b> LCY			
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volume	5 <b>5</b> LCY me: Exh 7,Item 23,Fig. C8	3		
Swell factor: Loose volume: Source of estimated volu Source of estimated swell	5 5 LCY me: Exh 7,Item 23,Fig. C8 I factor: Cat Handbook	3		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volu Source of estimated swell	5 5 LCY me: Exh 7,Item 23,Fig. C8 1 factor: Cat Handbook	3		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volu Source of estimated swell HOURLY PRODUCT	5 5 LCY me: Exh 7,Item 23,Fig. C8 1 factor: Cat Handbook	3		
Swell factor: <u>1.12</u> Loose volume: <u>7,42</u> Source of estimated volu Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance:	5 5 LCY me: Exh 7,Item 23,Fig. C8 l factor: Cat Handbook <u>EION</u> 115 feet	3		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	5 5 LCY me: Exh 7,Item 23,Fig. C8 1 factor: Cat Handbook FION 115 feet ction: 2,568.1 LCY/hr	3 		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	5         5 LCY         me:       Exh 7, Item 23, Fig. C8         I factor:       Cat Handbook <b>TION</b> ction:       115 feet         ction:       2,568.1 LCY/hr         scription:       Compacted fill or end	  mbankment 0.9		
Swell factor: <u>1.12</u> Loose volume: <u>7,42</u> Source of estimated volu Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	5         5 LCY         me:       Exh 7,Item 23,Fig. C8         l factor:       Cat Handbook <b>TION</b> action:       115 feet         2,568.1 LCY/hr         scription:       Compacted fill or end         0 %	3   mbankment 0.9		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	5         5 LCY         me:       Exh 7, Item 23, Fig. C8         l factor:       Cat Handbook <b>EION</b> ction: $\frac{115 \text{ feet}}{2,568.1 \text{ LCY/hr}}$ scription:       Compacted fill or end         0 %       6,900 feet	3   mbankment 0.9		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	$\frac{5}{5 \text{ LCY}}$ me: Exh 7,Item 23,Fig. C8 I factor: Cat Handbook $\frac{115 \text{ feet}}{2,568.1 \text{ LCY/hr}}$ scription: Compacted fill or end $\frac{0 \%}{6,900 \text{ feet}}$ 2,650 lbs/LCY	 		
Swell factor: <u>1.12</u> Loose volume: <u>7,42</u> Source of estimated volu Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	$5$ $5$ LCY         me:       Exh 7, Item 23, Fig. C8         l factor:       Cat Handbook <b>EION</b> ction: $\frac{115 \text{ feet}}{2,568.1 \text{ LCY/hr}}$ scription:       Compacted fill or end $0 \%$ $6,900 \text{ feet}$ $2,650 \text{ lbs/LCY}$ Decomposed rock - 25% Rock.	3  mbankment 0.9		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	5         5 LCY         me:       Exh 7,Item 23,Fig. C8         l factor:       Cat Handbook <b>EION</b> ction:       115 feet         ction:       2,568.1 LCY/hr         scription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock,         Factor       Factor	3  mbankment 0.9  , 75% Earth  Source		
Swell factor: 1.12 Loose volume: 7,42 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	5         5           5 LCY	3 		
Swell factor: <u>1.12</u> Loose volume: <u>7,42</u> Source of estimated volum Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	5 $5$ LCY         me:       Exh 7, Item 23, Fig. C8         l factor:       Cat Handbook <b>FION</b> 115 feet         ction:       2,568.1 LCY/hr         scription:       Compacted fill or er         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock,         Factor       Skill:       1.000         ency:       0.900	3 mbankment 0.9 , 75% Earth <u>Source</u> (EXCL.) (CAT HB))		
Swell factor: <u>1.12</u> Loose volume: <u>7,42</u> Source of estimated volu Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	5 $5$ LCY         me:       Exh 7, Item 23, Fig. C8         l factor:       Cat Handbook <b>EION</b> 115 feet         ction:       2,568.1 LCY/hr         scription:       Compacted fill or end $0 %$ 6,900 feet $2,650  lbs/LCY$ Decomposed rock - 25% Rock.         Factor       Skill: $1.000$ ency: $0.900$ thol:	mbankment 0.9 		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5836	
Adjusted unit production: 1,4	498.74 LCY/hr	
Adjusted fleet production: 14	98.74 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.574/LCY

Total job time:	<b>4.95</b> Hours
Total job cost:	\$4,261

Task description:	Section 36 Pond	Removal			
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<b>CATION</b>				
Task #: 419	State:	Colorado		Abbreviation:	None
Date: $3/11/2025$	County:	Moffat		Filename:	419
User: HR1					
Agency or organ	ization name:	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: NA					
Shift Basis: 1 pe	er day				
Data Source: (CR	.G)				
Cost Breakdown:			1		
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
		\$0.00	0		
Ripper op. Cost/Hour:		\$38 59	NΛ		
Apper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL OUANT	\$860.11 \$860.11	φ30.3 <i>γ</i>			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125	\$860.11 <b>\$860.11</b> ITIES				
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 5 6 1CY				
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b>	  m 23,Fig. C7 book	7		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$860.11 <b>\$860.11</b> <b>ITIES</b> <b>3</b> LCY ne: Exh 7,Iter factor: Cat Hand <b>ION</b> <b>150</b> feet tion: 2,036.8 LC	  	7		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency deserved	\$860.11 <b>\$860.11</b> <b>ITIES</b> ) 5 3 LCY ne: Exh 7,Iter factor: Cat Hand <b>'ION</b> tion: 150 feet 2,036.8 LC' cription: Compa	m 23,Fig. C7 book	7 mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:	\$860.11 <b>\$860.11</b> <b>ITIES</b> ) 5 3 LCY ne: Exh 7,Iter factor: Cat Hand <b>YION</b> tion: 2,036.8 LCY cription: Compa 0 % 6,900 feet	  m 23,Fig. C7 book Y/hr  cted fill or e	7 mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volun         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produc         Materials consistency dese         Average site altitude:         Material weight:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 3 LCY ne: Exh 7,Iter factor: Cat Hand <b>ION</b> tion: 150 feet 2,036.8 LCY cription: Compa 0 % 6,900 feet 2,650 lbs/LCY	Thr cted fill or e			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:         5,700         Swell factor:         1.125         Loose volume:         6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:	\$860.11 <b>\$860.11</b> <b>ITIES</b> ) 5 3 LCY ne: Exh 7,Iter factor: Cat Hand <b>'ION</b> tion: 150 feet 2,036.8 LC' cription: Compa 0 % 6,900 feet 2,650 lbs/LCY Decomposed rock		 7  mbankment 0.9  , 75% Earth		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$860.11 <b>\$860.11</b> <b>ITIES</b> ) 5 3 LCY ne: Exh 7,Iter factor: Cat Hand <b>TON</b> tion: 150 feet 2,036.8 LC? cription: Compa 0 % 6,900 feet 2,650 lbs/LCY Decomposed rock Factor	 m 23,Fig. C7 book Y/hr cted fill or e   - 25% Rock	 7 mbankment 0.9  , 75% Earth  Source		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S	\$860.11         \$860.11         ITIES         )         5         3 LCY         ne:       Exh 7,Iter         factor:       Cat Hand         YON         tion:       2,036.8 LC?         cription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock         Eactor       0.         Skill:       0.	430.33			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consiste	\$860.11         \$860.11         ITIES         0         5         3 LCY         ne:       Exh 7,Iter         factor:       Cat Hand         YON         tion:       2,036.8 LC         cription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock         Factor       Skill:       0.         cncy:       0.				
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       5,700         Swell factor:       1.125         Loose volume:       6,413         Source of estimated volun         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consiste         Dozing met	\$860.11         \$860.11         ITIES         0         5         3 LCY         ne:       Exh 7, Iter         factor:       Cat Hand         ION         tion:       2,036.8 LC         cription:       Compa         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock         Factor       Skill:       0.         oncy:       0,       0.         hod:       1.       0.				

Task # 419

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitu	de:	1.000	(CAT HB)
Material Weig	ght:	0.868	(CAT HB)
Blade ty	pe:	1.000	(PAT)
Net correction	on: _(	0.3890	
Adjusted unit production:	792.	32 LCY/hr	
Adjusted fleet production:	792.	<b>32</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.086/LCY

Total job time:	<b>8.09</b> Hours
Total job cost:	\$6,961

	Section 26 Pond Removal			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION			
Task #: 420	State: Colorado		Abbreviation:	None
Date: 3/11/2025	County: Moffat		Filename:	420
User: HR1				
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850				
Blade Type: Univ	versal			
Attachment: <u>NA</u>				
Shift Basis: 1 pe	r day			
Data Source: (CR	G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Total Fleet Cost/Hour:	\$860.11			
Total Fleet Cost/Hour:	\$860.11 TIES			
Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:10,40	<b>\$860.11</b> (TIES			
Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 10,40 Swell factor: 1.125	\$860.11 TIES 0			
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70	\$860.11 TIES 0 0 LCY			
Total Fleet Cost/Hour: <u>MATERIAL QUANTI</u> Initial Volume: 10,40 Swell factor: 1.125 Loose volume: 11,70 Source of estimated volum	\$860.11 TIES 0 0 LCY ne: Exh 7,Item 23,Fig. C6	 		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated swell	\$860.11 TIES 0 0 0 LCY 1e: Exh 7,Item 23,Fig. C6 factor: Cat Handbook	 5		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated swell	\$860.11 TIES 0 0 LCY 1e:Exh 7,Item 23,Fig. C6 factor:Cat Handbook ION	 5		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$860.11           TIES           0           0           0 LCY           ne:         Exh 7,Item 23,Fig. C6           factor:         Cat Handbook           ION	 5		
Total Fleet Cost/Hour: <u>MATERIAL QUANTI</u> Initial Volume: 10,40 Swell factor: 1.125 Loose volume: 11,70 Source of estimated volum Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance:	\$860.11 TIES 0 0 LCY ne: Exh 7,Item 23,Fig. C6 factor: Cat Handbook ION 120 feet	 5		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$860.11 TIES 0 0 LCY ne: <u>Exh 7,Item 23,Fig. C6</u> factor: <u>Cat Handbook</u> ION <u>120 feet</u> tion: <u>2,467.4 LCY/hr</u>	 j		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc	\$860.11           TIES           0           0           0 LCY           e:         Exh 7, Item 23, Fig. C6           factor:         Cat Handbook           ION           120 feet           tion:         2,467.4 LCY/hr           cription:         Compacted fill or end	5   mbankment 0.9		
Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 10,40 Swell factor: 1.125 Loose volume: 11,70 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient:	\$860.11         CTIES         0         0         0         0         0         0         0         0         0         0         0         0         120 feet         tion:         2,467.4 LCY/hr         cription:         0 %	5   mbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:	\$860.11 TIES 0 0 LCY 10 LCY 10 E: Exh 7,Item 23,Fig. Co factor:Cat Handbook ION 120 feet tion:2,467.4 LCY/hr cription:Compacted fill or ex 0 % 6,900 feet 	   mbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:	\$860.11         TIES         0         0         0 LCY         e:       Exh 7,Item 23,Fig. C6         factor:       Cat Handbook         ION         tion:       2,467.4 LCY/hr         cription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY	  mbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:	\$860.11         TIES         0         0         0 LCY         e:       Exh 7,Item 23,Fig. C6         factor:       Cat Handbook         ION         tion:       2,467.4 LCY/hr         cription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY         Decomposed rock - 25% Rock	  mbankment 0.9		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$860.11         THES         0         0         0 LCY         ne:       Exh 7,Item 23,Fig. C6         factor:       Cat Handbook         ION         120 feet         tion:       2,467.4 LCY/hr         cription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock,         Factor       Factor	5 		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I	\$860.11         THES         0         0 LCY         ne:       Exh 7,Item 23,Fig. C6         factor:       Cat Handbook         ION         120 feet         tion:       2,467.4 LCY/hr         cription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock,         Factor       0.750			
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I         Operator S         Material consiste	\$860.11         TIES         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120      1	5 mbankment 0.9 , 75% Earth (AVG.) (CAT HB))		
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       10,40         Swell factor:       1.125         Loose volume:       11,70         Source of estimated volum         Source of estimated volum         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction I         Operator S         Material consiste         Dozing met	\$860.11         TIES         0         0         0 LCY         e:       Exh 7,Item 23,Fig. C6         factor:       Cat Handbook         ION         ition:       2,467.4 LCY/hr         cription:       Compacted fill or end         0 %	5 		

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitu	de:	1.000	(CAT HB)
Material Weig	ght:	0.868	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on: _	0.3890	
Adjusted unit production:	959	0.82 LCY/hr	
Adjusted fleet production:	959	<b>.82</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.896/LCY

Total job time:	<b>12.19</b> Hours
Total job cost:	\$10,484

Task description:	Sidehill Pond Re	emoval			
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task # 421	State	Colorado		Abbreviation:	None
Date: $3/11/2025$	State:	Moffat		Filename:	42.1
User: HR1	County:			-	121
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D11T - 11U				
Horsepower: 850	)				
Blade Type: Uni	iversal				
Attachment: NA					
Shift Basis: 1 p	er day				
Data Source: (CF	RG)				
Cost Breakdown:					
_			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
		\$0.00	0		
Ripper op. Cost/Hour:					
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$860.11 \$860.11	\$38.59	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12	\$860.11 \$860.11 TTIES 00 5	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2	\$860.11 <b>\$860.11</b> <b>TTIES</b> 00 5 <b>75</b> LCY	\$38.59 	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volume	\$860.11 <b>\$860.11</b> <b>TTIES</b> 00 5 <b>75</b> LCY me: Exh 7,Iter	\$38.59	<u>NA</u>		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell	\$860.11 \$860.11 <b>`ITIES</b> 00 5 75 LCY me: <u>Exh 7,Iter</u> 1 factor: <u>Cat Hand</u>	\$38.59  m 23,Fig. C5 book	  5		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell	\$860.11         \$860.11         `TTIES         00         5         75 LCY         me:       Exh 7,Iten         1 factor:       Cat Hand         FION	\$38.59  m 23,Fig. C5 book	 5		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:	\$860.11 \$860.11 \$860.11 TTIES 00 5 75 LCY me: Exh 7,Iten 1 factor: Cat Hand EION	\$38.59	  5		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$860.11         \$860.11         `TTIES         00         5         75 LCY         me:       Exh 7,Iten         1 factor:       Cat Hand <b>FION</b> ction:       2,467.4 LCY	\$38.59  m 23,Fig. C5 book Y/hr			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volut         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance	\$860.11         \$860.11         \$860.11         CITIES         00         5         75 LCY         me:       Exh 7,Iter         1 factor:       Cat Hand         FION         ction:       120 feet         ction:       2,467.4 LCY	\$38.59 	 5 mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volut         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	\$860.11         \$860.11         \$860.11         `TTIES         00         5         75 LCY         me:       Exh 7,Iter         1 factor:       Cat Hand         FION         ction:       2,467.4 LC         scription:       Compa         0 %       6,900 feet	\$38.59  m 23,Fig. C5 book Y/hr cted fill or en	 5  mbankment 0.9		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volume:       000000000000000000000000000000000000	\$860.11 \$860.11 \$860.11 TTIES 00 5 75 LCY me: Exh 7,Iten 1 factor: Cat Hand FION ction: 120 feet 2,467.4 LCY scription: Compa 0 % 6,900 feet 2,650 lbs/LCY	\$38.59			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:	\$860.11         \$860.11         \$860.11         \$860.11         \$11         \$860.11         \$11         \$11         \$11         \$11         \$11         \$11         \$110         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$120         \$120         \$120         \$120         \$120         \$120         \$120         \$120         \$120         \$120         \$120         \$120 <td>\$38.59 </td> <td></td> <td></td> <td></td>	\$38.59 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$860.11         \$860.11         \$860.11         \$860.11         \$120         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	\$38.59 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volut         Source of estimated volut         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator	\$860.11         \$860.11         \$860.11         \$860.11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11	\$38.59 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator         Material consist	\$860.11         \$860.11         \$860.11         \$860.11         \$11         \$860.11         \$11         \$860.11         \$11         \$860.11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11	\$38.59 			
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       19,8         Swell factor:       1.12         Loose volume:       22,2         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator         Material consist         Dozing me	\$860.11         \$860.11         \$860.11         \$860.11         \$11         \$860.11         \$11         \$860.11         \$11         \$860.11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11         \$11	\$38.59 			

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitu	de:	1.000	(CAT HB)
Material Weig	ght:	0.868	(CAT HB)
Blade ty	pe:	1.000	(PAT)
Net correction	on:	0.3890	
Adjusted unit production:	95	9.82 LCY/hr	
Adjusted fleet production:	95	9.82 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.896/LCY

Total job time:	<b>23.21</b> Hours
Total job cost:	\$19,961

Task description:	Coal Stockpile Pond Rem	oval		
: <u>Colowyo Coal Mine</u>	Permit Action	n: _MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION			
Task # 422	State: Colorad	lo	Abbreviation.	None
Date: $3/11/2025$	County: Moffat		Filename	422
User: HR1				122
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850	)			
Blade Type: Uni	iversal			
Attachment: NA				
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CF	RG)			
Cost Breakdown:				
	¢406.6	<u>Utilization %</u>		
Ownership Cost/Hour:	\$496.0	2 NA 0 100		
Pipper own Cost/Hour:	\$324.9 \$0.0	0 100 0 NA		
Ripper on Cost/Hour:	\$0.0 \$0.0	$\frac{0}{0}$ $\frac{1}{0}$		
Operator Cost/Hour	¢0.0			
	118 1			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$38.5 \$860.11 <b>\$860.11</b>	9 <u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$38.5 \$860.11 <b>\$860.11</b> <b>ITIES</b>	9 <u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 61,30	<u>\$38.5</u> <u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 01	9 <u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 61,3 Swell factor: 1.00	538.5 \$860.11 <b>\$860.11</b> <b>TTIES</b> 01 0	9 <u>NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,30         Swell factor:       1.000         Loose volume:       61,30	538.5 \$860.11 \$860.11 TTIES 01 0 01 LCY	9 <u>NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,30         Swell factor:       1.000         Loose volume:       61,30         Source of estimated volu	538.5 \$860.11 \$860.11 TTIES 01 0 01 01 01 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 01 02 02 02 02 02 02 02 02 02 02	<u>9 NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,30         Swell factor:       1.000         Loose volume:       61,30         Source of estimated volu       Source of estimated swell	\$38.5         \$860.11         \$860.11         TTIES         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         02         03         04         05         05         06         07         08         09         100         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110 <tr< td=""><td><u>9 NA</u></td><td></td><td></td></tr<>	<u>9 NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,30         Swell factor:       1.000         Loose volume:       61,30         Source of estimated volum         Source of estimated swell	\$38.5         \$860.11         \$860.11         TTIES         01         0         01 LCY         ne:       Exh 7,Item 23,Fig.         1 factor:       Cat Handbook	<u> </u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,39         Swell factor:       1.000         Loose volume:       61,39         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$38.5         \$860.11         \$860.11         TTIES         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         02         03         04         05         05         06         07         08         09         09         01         02         03         04         05         05         06         07         08         09         01         02         03         04         05         05         06     <	<u>9 NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,39         Swell factor:       1.000         Loose volume:       61,39         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:	\$358.5         \$860.11         \$860.11         TTIES         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         02         03         04         05         05         06         07         08         09         120         120         120         120	<u>9 NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3         Swell factor:       1.00         Loose volume:       61,3         Source of estimated volur         Source of estimated volur         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$38.5         \$860.11         \$860.11         TTIES         01         0         01 LCY         ne:       Exh 7,Item 23,Fig.         1 factor:       Cat Handbook         FION         2 120 feet         ction:       2 467 4 LCY/hr	<u>9 NA</u>		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3         Swell factor:       1.00         Loose volume:       61,3         Source of estimated volu         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$358.5         \$860.11         \$860.11         TTIES         01         0         01 LCY         ne:       Exh 7,Item 23,Fig.         1 factor:       Cat Handbook         Cat Handbook         Constraint         120 feet         ction:       2,467.4 LCY/hr	9 NA		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3'         Swell factor:       1.00'         Loose volume:       61,3'         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest	\$38.5           \$860.11           \$860.11           TTIES           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           02           03           04           05           06           07           08           09           01           02           03           04           05           06           07           08           120           120           120           120           120           120           120           120           120	9 NA C5 r embankment 0.9		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,30         Swell factor:       1.000         Loose volume:       61,30         Source of estimated volun       500         Source of estimated volun       500         Materials consistency dest       Average push distance:         Materials consistency dest       Average push gradient:	\$38.5           \$860.11           \$860.11           ITIES           01           0           01 LCY           ne:           Exh 7,Item 23,Fig.           1 factor:           Cat Handbook           Compacted fill o           0 %	9 NA		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3'         Swell factor:       1.00         Loose volume:       61,3'         Source of estimated volu       Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	\$38.5           \$860.11           \$860.11           TTIES           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           02           03           120 feet           ction:           2,467.4 LCY/hr           accription:           Compacted fill o           0%           6,900 feet	9 NA		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3'         Swell factor:       1.00         Loose volume:       61,3'         Source of estimated volu       Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:	\$358.5         \$860.11         \$860.11         TTIES         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         02         03         120 feet         ction:         2,467.4 LCY/hr         acription:         Compacted fill o         0%         6,900 feet         2,650 lbs/LCY	9 NA 		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:         61,3'         Swell factor:         1.00'         Loose volume:         61,3'         Source of estimated volu         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:	\$38.5         \$860.11         \$860.11         TTIES         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         02         01         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120 <td>9         NA           C5        </td> <td></td> <td></td>	9         NA           C5		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:         61,3'         Swell factor:         1.00         Loose volume:         61,3'         Source of estimated volu         Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$38.5           \$860.11           \$860.11           ITIES           01           0           01 LCY           ne:           Exh 7,Item 23,Fig.           1 factor:           Cat Handbook           Cat Handbook           Cat Handbook           Compacted fill o           0 %           6,900 feet           2,650 lbs/LCY           Decomposed rock - 25% Ro           Factor	9         NA		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3'         Swell factor:       1.00         Loose volume:       61,3'         Source of estimated volu       Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$38.5           \$860.11           \$860.11           TTIES           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           0           01           02           01           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120           120 <t< td=""><td>9         NA           C5        </td><td></td><td></td></t<>	9         NA           C5		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3'         Swell factor:       1.00         Loose volume:       61,3'         Source of estimated volu       61,3'         Source of estimated volu       Source of estimated volu         Source of estimated swell       HOURLY PRODUCT         Average push distance:       Unadjusted hourly product         Materials consistency dest       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction         Operator S       Material consistency	\$38.5         \$860.11         \$860.11         TTIES         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         02         03         120 feet         ction:         2,467.4 LCY/hr         compacted fill o         0         0%         6,900 feet         2,650 lbs/LCY         Decomposed rock - 25% Ro         Factor         Skill:       0.750         ency:       0.900	9         NA           C5		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       61,3         Swell factor:       1.00         Loose volume:       61,3         Source of estimated volu       Source of estimated volu         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator 3         Material consist         Dozing me	\$358.5         \$860.11 <b>TTIES</b> 01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         0         01         01         02         01         02         03         120         120         120         120         120         120         120         120         100         1000         1000	9         NA	))	

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	t:	0.868	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.3890	
Adjusted unit production:	95	9.82 LCY/hr	
Adjusted fleet production:	95	<b>59.82</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.896/LCY

Total job time:	<b>63.87</b> Hours
Total job cost:	\$54,933

	remporary raemaes ronu r			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	ICATION			
Task #: 423	State: Colorado		Abbreviation:	None
Date: 3/11/2025	County: Moffat		Filename:	423
User: HR1			-	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850				
Blade Type: Uni	versal			
Attachment: NA				
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CR	(0)			
Cost Breakdown:				
	* • ~ - · -	<u>Utilization %</u>		
Ownership Cost/Hour:	\$496.62	NA 100		
Derating Cost/Hour:	\$324.90	100 NA		
Ripper own. Cost/Hour:	<u> </u>			
Operator Cost/Hour:	\$0.00			
Operator Cost/Hour.	ψ30.39	NA		
Total unit Cost/Hour	\$860.11			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$860.11 <b>\$860.11</b>			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$860.11 \$860.11 ITIES			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$860.11 \$860.11 ITIES 8			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0 8 LCY			
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0 8 LCY E 1 5 L 20 E 00			
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       4,533         Swell factor:       1.000         Loose volume:       4,533         Source of estimated volum	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0 8 LCY ne: <u>Exh 7,Item 23,Fig. C5</u> forter: <u>Cat Upg theore</u>	 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533 Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0 8 LCY ne: Exh 7,Item 23,Fig. C5 factor: Cat Handbook	 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533 Source of estimated volum Source of estimated swell	\$860.11 <b>SECY</b> 10 10 11 11 11 11 11 11 11 11	 ; 		
Total unit Cost/Hour:         Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume:       4,533         Swell factor:       1.000         Loose volume:       4,533         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: <u>Exh 7,Item 23,Fig. C5</u> factor: <u>Cat Handbook</u> FION	  		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	<u>\$860.11</u> <b>ITIES</b> 8 0 8 LCY ne: <u>Exh 7, Item 23, Fig. C5</u> factor: <u>Cat Handbook</u> <u>FION</u> 120 feet	 5		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         CION         120 feet         ction:       2,467.4 LCY/hr	 5		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         CION         ction:       120 feet         2,467.4 LCY/hr         cription:       Compacted fill or end	 5  mbankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly product	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Exh 7, Item 23, Fig. C5         factor:       Cat Handbook         CION         etion:       120 feet         2,467.4 LCY/hr         cription:       Compacted fill or etion	 5  mbankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1.000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average push gradient:	<u>\$860.11</u> <b>ITIES</b> <u>8</u> <u>0</u> <u>8</u> LCY ne: Exh 7,Item 23,Fig. C5 factor: Cat Handbook <b>EXN</b> factor: <u>120 feet</u> ction: <u>2,467.4 LCY/hr</u> cription: <u>Compacted fill or end</u> <u>0 %</u> <u>6 000 fact</u>	 5  mbankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         CION         2.467.4 LCY/hr         cription:      Compacted fill or er         0 %         6,900 feet			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,533 Swell factor: 1000 Loose volume: 4,533 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	\$860.11 \$860.11 <b>ITIES</b> 8 0 8 CO 8 CY ne: Exh 7,Item 23,Fig. C5 factor: Cat Handbook <b>SION</b> ction: 120 feet 2,467.4 LCY/hr cription: Compacted fill or en 0 % 6,900 feet 2,650 lbs/LCY			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,53 Swell factor: 1000 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Exh 7, Item 23, Fig. C5         factor:       Cat Handbook         FION         ction:       120 feet         2,467.4 LCY/hr         cription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY         Decomposed rock - 25% Rock	  mbankment 0.9		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,53: Swell factor: 1.000 Loose volume: 4,53: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         CION         cription:       120 feet         cription:       2,467.4 LCY/hr         cription:       Compacted fill or end         0 %       6,900 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock         Factor       Factor			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,53 Swell factor: 1000 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	$\frac{\$860.11}{\$860.11}$ $\overline{ITIES}$ $\frac{8}{0}$ $8 LCY$ $me: Exh 7,Item 23,Fig. C5$ $factor: Cat Handbook$ $\overline{CION}$ $\frac{120 \text{ feet}}{ction: 2,467.4 \text{ LCY/hr}}$ $cription: Compacted fill or effect \frac{0 \%}{6,900 \text{ feet}} 2,650 \text{ lbs/LCY} \underline{Decomposed rock - 25\% \text{ Rock}} \overline{Factor} Skill: 0.750$			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,53 Swell factor: 1000 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	$\frac{\$860.11}{\$860.11}$ $\overline{ITIES}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{8}{0}$ $\frac{120 \text{ feet}}{(2 \text{ tet})}$ $120 \text{ $			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,53 Swell factor: 1000 Loose volume: 4,53 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency des	$\begin{array}{r c c c c c c c c c c c c c c c c c c c$			

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3890	
Adjusted unit production: 95	59.82 LCY/hr	
Adjusted fleet production: 95	59.82 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.896/LCY

Total job time:	<b>4.73</b> Hours
Total job cost:	\$4,067

	wilson Storage Pond Remov	ai		
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFIC	CATION			
Task #: 424	State: Colorado		Abbreviation:	None
Date: 3/11/2025	County: Moffat		Filename:	424
User: HR1			_	
Agency or organi	zation name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D11T - 11U			
Horsepower: 850				
Blade Type: Univ	versal			
Attachment: NA	-			
Shift Basis: <u>1 per</u>	: day			
Data Source: (CRO	(L)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Total Fleet Cost/Hour:	\$860.11 \$860.11			
Total Fleet Cost/Hour:	\$860.11 \$860.11 TIES			
Total Fleet Cost/Hour:	\$860.11 <b>\$860.11</b> TIES 7			
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       16,12'         Swell factor:       1.000	\$860.11 \$860.11 <u>TIES</u> 7			
Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       16,12         Swell factor:       1.000         Loose volume:       16,12	\$860.11 \$860.11 TIES 7 7 LCY			
Total Fleet Cost/Hour:          MATERIAL QUANTI	\$860.11 <b>\$860.11</b> <b>TIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7			
Total Fleet Cost/Hour:	\$860.11 <b>TIES</b> 7         7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook			
Total Fleet Cost/Hour:	\$800.11 <b>\$860.11 TIES</b> 7  7  7  7  7  7  7  7  7  7  7  7  7			
Total Fleet Cost/Hour:	\$860.11 <b>TIES</b> 7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         ION         120 feet			
Total Fleet Cost/Hour:	\$860.11 <b>TIES</b> 7         7         7         7         7         7         7         7         7         7         7         6:         Exh 7, Item 23, Fig. C5         factor:         Cat Handbook         ION         ion:         2,467.4 LCY/hr			
Total Fleet Cost/Hour:          MATERIAL QUANTI	\$860.11 <b>TIES</b> 7         7 LCY         e:       Exh 7, Item 23, Fig. C5         factor:       Cat Handbook         ION         ion:       120 feet         ion:       2,467.4 LCY/hr         ription:       Compacted fill or er	  nbankment 0.9		
Total Fleet Cost/Hour:          MATERIAL QUANTI	\$860.11         \$860.11         TIES         7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         ION         ion:       120 feet         ion:       2,467.4 LCY/hr         ription:       Compacted fill or er         -15 %       6,900 feet	  nbankment 0.9		
Total Fleet Cost/Hour:	\$800.11         \$860.11         TIES         7         7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         ION         ion:       2,467.4 LCY/hr         ription:       Compacted fill or er         -15 %       6,900 feet         2,650 lbs/LCY	  nbankment 0.9		
Total Fleet Cost/Hour:	\$860.11         \$860.11         TIES         7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         ION         ion:       120 feet         2,467.4 LCY/hr         ription:       Compacted fill or er         -15 %         6,900 feet         2,650 lbs/LCY         Decomposed rock - 25% Rock,	  nbankment 0.9 75% Earth		
Total Fleet Cost/Hour:          MATERIAL QUANTI	\$860.11         \$860.11         TIES         7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         ION         ion:       120 feet         ion:       2,467.4 LCY/hr         ription:       Compacted fill or er         -15 %	  nbankment 0.9  75% Earth  Source		
Total Fleet Cost/Hour:	\$860.11         \$860.11         TIES         7         7 LCY         e:       Exh 7,Item 23,Fig. C5         factor:       Cat Handbook         ION         ion:       120 feet         ion:       2,467.4 LCY/hr         ription:       Compacted fill or er         -15 %       6,900 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock,         Factor       0.750			
Total Fleet Cost/Hour:	\$800.11         \$860.11         TIES         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         120 feet         ion:         2,467.4 LCY/hr         ription:        Compacted fill or er         -15 %         6,900 feet         2,650 lbs/LCY         Decomposed rock - 25% Rock,         Factor         kill:       0.750         ncy:       0.900			
Total Fleet Cost/Hour:	\$860.11 <b>TIES</b> 7         7 LCY         e:       Exh 7, Item 23, Fig. C5         factor:       Cat Handbook <b>ION</b> ion: $\frac{120 \text{ feet}}{2,467.4 \text{ LCY/hr}}$ ription:       Compacted fill or er $\frac{-15 \%}{6,900 \text{ feet}}$ 2,650 lbs/LCY         Decomposed rock - 25% Rock, $\frac{5actor}{kill:         will:       0.750         ncy:       0.900         nod:       1.000   $			

Task # 424

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4136	
Adjusted unit production: 1,0	020.52 LCY/hr	
Adjusted fleet production: 10	20.52 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.843/LCY

Total job time:	15.80 Hours
Total job cost:	\$13,592

Page 1 of 2

r	Regrade Ditch D1			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION			
Task #: 425	State: Colorado		Abbreviation:	None
Date: 3/11/2025	County: Moffat		Filename:	425
User: HR1		<u> </u>		-
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850	1			
Blade Type: Uni	versal			
Attachment: NA				
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CR	(G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Initial Volume: 2,462 Swell factor: 1.000	2			
	2 LCY			
1005e  volume.  2,40.				
Source of estimated volur Source of estimated swell	ne: Exhibit 7-23B Table factor: Cat Handbook	1, Ex. 7 , Item 23 Fig. B-1 		
Source of estimated volur Source of estimated swell HOURLY PRODUCT	ne: Exhibit 7-23B Table factor: Cat Handbook	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	ne: Exhibit 7-23B Table factor: Cat Handbook	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	ne: <u>Exhibit 7-23B Table</u> factor: <u>Cat Handbook</u>	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des	ne: <u>Exhibit 7-23B Table</u> factor: <u>Cat Handbook</u>	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	ne: Exhibit 7-23B Table factor: Cat Handbook CION CION Constant factor: $\frac{50 \text{ feet}}{4,589.5 \text{ LCY/hr}}$ cription: Compacted fill or e $\frac{0 \%}{7,500 \text{ feet}}$	1, Ex. 7 , Item 23 Fig. B-1	<u> </u>	
Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	ne: <u>Exhibit 7-23B Table</u> factor: <u>Cat Handbook</u> <b>CION</b> <u>50 feet</u> ction: <u>4,589.5 LCY/hr</u> cription: <u>Compacted fill or e</u> <u>0 %</u> <u>7,500 feet</u> <u>2,650 lbs/LCY</u>	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	ne: <u>Exhibit 7-23B Table</u> factor: <u>Cat Handbook</u> CION  50 feet  ction: <u>4,589.5 LCY/hr</u> cription: <u>Compacted fill or e</u> 0 % 7,500 feet 2,650 lbs/LCY  Decomposed rock - 25% Rock	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated volur Source of estimated swell <u>HOURLY PRODUCT</u> Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	ne: <u>Exhibit 7-23B Table</u> factor: <u>Cat Handbook</u>	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	ne: Exhibit 7-23B Table factor: Cat Handbook CION 50 feet ction: $4,589.5$ LCY/hr cription: Compacted fill or e 0% 7,500 feet 2,650 lbs/LCY Decomposed rock - 25% Rock Factor Skill: 0.750	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste	ne: Exhibit 7-23B Table factor: Cat Handbook CION 50  feet etion: 4,589.5 LCY/hr cription: Compacted fill or e 0 % 7,500 feet 2,650 lbs/LCY Decomposed rock - 25% Rock Factor Skill: 0.750 ency: 0.900	1, Ex. 7 , Item 23 Fig. B-1		
Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste Dozing me	ne: Exhibit 7-23B Table factor: Cat Handbook CION 50  feet ction: 4,589.5 LCY/hr cription: Compacted fill or e 0 % 7,500 feet 2,650 lbs/LCY Decomposed rock - 25% Rock <u>Factor</u> Skill: 0.750 ency: 0.900 thod: 1.000	1, Ex. 7 , Item 23 Fig. B-1		

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altituc	de:	1.000	(CAT HB)
Material Weig	ht:	0.868	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.3112	
Adjusted unit production:	1,4	428.25 LCY/hr	
Adjusted fleet production:	14	28.25 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.602/LCY

Total job time:	<b>1.72</b> Hours
Total job cost:	\$1,483

	Regrude Diten D	2			
Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task # 426	State	Colorado		Abbreviation.	None
Date: $3/12/2025$	County:	Moffat		Filename:	426
User: HR1					
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	t D11T - 11U				
Horsepower: 850	)				
Blade Type: Un	iversal				
Attachment: NA	1				
Shift Basis: <u>1 p</u>	er day				
Data Source: (CF	<b>K</b> G)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
MATERIAL QUANT	TITIES				
MATERIAL QUANT Initial Volume: 7,96 Swell factor: 1.00	<u>CITIES</u> 0 0				
MATERIAL QUANT Initial Volume: 7,96 Swell factor: 1.00 Loose volume: 7,96	<u>TITIES</u> 0 0 0 LCY				
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volum       7,96         Source of estimated swell       7,96	CITIES 0 0 0 0 LCY me: Exhibit 7- 1 factor: Cat Hand		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volum       7,96         Source of estimated swell       90         HOURLY PRODUCT       100	CITIES         0         0         0         0 LCY         me:       Exhibit 7-         1 factor:       Cat Hand         FION	 	1, Exh. 7-item 23, Fig. B	9-1	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volu       7,96         Source of estimated volu       8         HOURLY PRODUCT       100         Average push distance:       100	CITIES 0 0 0 LCY me: Exhibit 7- 1 factor: Cat Hand <u>FION</u> 50 feet		1, Exh. 7-item 23, Fig. B	i-1	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volum       7,96         Source of estimated volum       7,96         Matter of estimated volum       7,96         Source of estimated volum       7,96         Matter of estimated volum       7,96         Average push distance:       100         Unadjusted hourly product       100	EXAMPLE         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         factor:         Exhibit 7-         Cat Hand         FION         50 feet         4,589.5 LCY		1, Exh. 7-item 23, Fig. B 	3-1	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volu       7,96         Source of estimated volu       7,96         Source of estimated volu       7,96         Materials consistency destinated volu       1.00         Materials consistency destinated volu       1.00	String         String<	    	1, Exh. 7-item 23, Fig. B    mbankment 0.9	<u>i-1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volume:       7,96         Source of estimated volume:       7,96         Source of estimated volume:       7,96         Materials consistence:       1.00         Materials consistency dest       Average push gradient:	D         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         factor:	  23B, Table book book Y/hr cted fill or e	1, Exh. 7-item 23, Fig. B   mbankment 0.9	<u>i-1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volum       7,96         Source of estimated volum       7,96         Source of estimated volum       9,96         Materials consistence:       1.00         Unadjusted hourly product       1.00         Materials consistency dest       1.00         Average push gradient:       1.00         Average site altitude:       1.00	STTIES         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         factor:         Station:         50         feet         ction:         50         feet         ction:         50         feet         ction:         50         feet         ction:         20         %         7,500         feet		1, Exh. 7-item 23, Fig. B 	3-1	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volume:       7,96         Source of estimated volume:       7,96         Source of estimated volume:       7,96         Materials consistence:       1.00         Materials consistency dest       Average push gradient:         Average site altitude:       Material weight:	String       String         0       0         0       LCY         me:       Exhibit 7-         1 factor:       Cat Hand <b>EION</b> 50 feet         ction:       50 feet         scription:       Compare         -20 %       7,500 feet         2,650 lbs/LCY	 23B, Table book Y/hr cted fill or en 	1, Exh. 7-item 23, Fig. B	<u>i-1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volume:       7,96         Source of estimated volume:       7,96         Source of estimated volume:       7,96         Materials consistence:       1.00         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:	String       String         0       0         0       LCY         me:       Exhibit 7-         1 factor:       Cat Hand <b>EION</b> 50 feet         ction:       50 feet         scription:       Compare         -20 %       7,500 feet         2,650 lbs/LCY       Decomposed rock	 23B, Table book Y/hr cted fill or en  	<u>1, Exh. 7-item 23, Fig. B</u>   mbankment 0.9	<u>i-1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volume:       7,96         Materials consistence:       100         Materials consistency dest       Average push gradient:         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       100	String         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	 	1, Exh. 7-item 23, Fig. B   mbankment 0.9  , 75% Earth  Source	<u>1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volume:       7,96         Materials consistence:       100         Materials consistency dest       Average push distance:         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator	STTIES         0         0         0         0         0         0         0         0         0         0         0         0         0         0         Decomposed rock         Factor         Skill:         0         Cat Hand         State         State         20 %         7,500 feet         2,650 lbs/LCY		1, Exh. 7-item 23, Fig. B	<u>1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volume:       7,96         Material sconsistence:       100         Unadjusted hourly product       Materials consistency destance:         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator         Material consist       Operator	String       String         0       0         0       LCY         me:       Exhibit 7-         1 factor:       Cat Hand <b>EION</b> 50 feet         ction: $\frac{50 \text{ feet}}{4,589.5 \text{ LCY}}$ scription:       Compare $-20 \%$ 7,500 feet         2,650 lbs/LCY       Decomposed rock         Factor       Skill:       0.         ency:       0.		1, Exh. 7-item 23, Fig. B 	<u>1</u>	
MATERIAL QUANT         Initial Volume:       7,96         Swell factor:       1.00         Loose volume:       7,96         Source of estimated volu       300         Source of estimated swell       300         HOURLY PRODUCT       400         Average push distance:       100         Unadjusted hourly product       300         Materials consistency dest       400         Average push gradient:       400         Average site altitude:       300         Material weight:       300         Weight description:       300         Job Condition Correction       300         Operator       300         Material consistence       300	String       String         0       0         0       LCY         me:       Exhibit 7-         1 factor:       Cat Hand <b>EION</b> 50 feet         ction: $50$ feet         ction: $50$ feet         ction: $20$ %         7,500 feet       2,650 lbs/LCY         Decomposed rock       Factor         Skill:       0.         ency:       0.         ethod:       1.		1, Exh. 7-item 23, Fig. B  mbankment 0.9 , 75% Earth  (AVG.) (CAT HB)) (GEN.)	i-1	

Task # 426

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5548	
Adjusted unit production: 2,4	546.25 LCY/hr	
Adjusted fleet production: 25	46.25 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.338/LCY

Total job time:	<b>3.13</b> Hours
Total job cost:	\$2,689

Task description:	Regrade Ditch D3			
Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<u>CATION</u>			
Task #: 427	State: Colorado		Abbreviation:	None
Date: 3/12/2025	County: Moffat		Filename:	427
User: HR1			-	
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850				
Blade Type: Univ	versal			
Attachment: NA				
Shift Basis: 1 pe	r day			
Data Source: (CR	G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
	¢29.50			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$38.39 \$860.11 \$860.11	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814	\$38.39 \$860.11 <b>\$860.11</b>	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814	\$38.39 \$860.11 <b>\$860.11</b> <b>[TIES</b> 	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum	\$38.39 \$860.11 <b>\$860.11</b> <b>ITIES</b> LCY he: Exhibit 7-23B, Table forter Cet Handback	NA 	-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated swell	\$38.39 \$860.11 <b>\$860.11</b> <b>ITIES</b> LCY he: Exhibit 7-23B, Table factor: Cat Handbook	  1, Exh. 7-item 23, Fig. B-	-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$38.39 \$860.11 <b>\$860.11</b> <b>[TIES</b> 	  1, Exh. 7-item 23, Fig. B-	-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$38.39 \$860.11 \$860.11 ITIES LCY he: Exhibit 7-23B, Table factor: Cat Handbook ION 50 feet	 1, Exh. 7-item 23, Fig. B-	-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:	\$38.39 \$860.11 \$860.11 TTIES LCY he: Exhibit 7-23B, Table factor: Cat Handbook ION 50 feet 4,589.5 LCY/hr	 1, Exh. 7-item 23, Fig. B- 	-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$38.39 \$860.11 <b>\$860.11</b> <b>ITIES</b> LCY he: Exhibit 7-23B, Table factor: Cat Handbook <b>ION</b> tion: 50 feet 4,589.5 LCY/hr cription: Compacted fill or either	 1, Exh. 7-item 23, Fig. B-   mbankment 0.9	-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average push gradient: Average site altitude:	\$38.39 \$860.11 <b>\$860.11</b> <b>TTIES</b> LCY he: Exhibit 7-23B, Table factor: Cat Handbook <b>ION</b> tion: 50 feet 4,589.5 LCY/hr cription: Compacted fill or end 0 % 7 500 feet		-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight:	\$38.39 \$860.11 \$860.11 <b>THES</b> <b>Constant of the set </b>		-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	\$38.39 \$860.11 \$860.11 <b>THES</b> <b>Call Handbook</b> <b>ION</b> <b>50</b> feet tion: 50 feet 4,589.5 LCY/hr cription: Compacted fill or end 0 % 7,500 feet 2,650 lbs/LCY Decomposed rock - 25% Rock			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	\$38.39 \$860.11 <b>\$860.11</b> <b>THES</b> <b>Constant of the second secon</b>		-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$38.39 \$860.11 \$860.11 <b>THES</b> LCY he: Exhibit 7-23B, Table factor: Cat Handbook <b>ION</b> 50 feet tion: 50 feet 4,589.5 LCY/hr cription: Compacted fill or end 0 % 7,500 feet 2,650 lbs/LCY Decomposed rock - 25% Rock Eactor		-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 3,814 Swell factor: 1.000 Loose volume: 3,814 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction I Operator S	\$38.39 \$860.11 \$860.11 <b>THES</b> <b>Constant of the set </b>		-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:	\$38.39 \$860.11 \$860.11 TIES			

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4668	
Adjusted unit production:	2,142.38 LCY/hr	
Adjusted fleet production:	2142.38 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.401/LCY

Total job time:	<b>1.78</b> Hours
Total job cost:	\$1,531

Page 1 of 2

Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<b>ICATION</b>			
Task #: 428	State: Colorado	Al	breviation:	None
Date: 3/12/2025	County: Moffat		Filename:	428
User: HR1				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850	1			
Blade Type: Uni	versal			
Attachment: NA				
Shift Basis: <u>1 pe</u>	er day			
Data Source: (CR	(G)			
Cost Breakdown:				
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	<u>    100                               </u>		
Ripper own. Cost/Hour:	\$0.00			
Ripper op. Cost/Hour:	\$0.00	0		
operator costribut.	\$30.37	NA		
MATERIAL QUANT	ITIES			
MATERIAL QUANT Initial Volume: 2,720 Swell factor: 1.000	<u>ITIES</u> 6			
MATERIAL QUANTInitial Volume:2,720Swell factor:1.000Loose volume:2,720	ITIES 6 0 6 LCY			
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.000         Loose volume:       2,72         Source of estimated volur       2,72         Source of estimated volur       2,72	ITIES         6         0         6 LCY         ne:       Exhibit 7-23B, Table         factor:       Cat Handbook	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	ITIES         6         0         6 LCY         6 LCY         ne:       Exhibit 7-23B, Table         factor:       Cat Handbook	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,724         Swell factor:       1.000         Loose volume:       2,724         Source of estimated volur       2,000         Source of estimated swell       4000         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       1000	ITIES           6           6           0           6 LCY           ne:         Exhibit 7-23B, Table           factor:         Cat Handbook           CION           50 feet           xtion:         50 feet           4,589.5 LCY/hr	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volum       2,72         Source of estimated volum       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency destinated	ITIES         6         0         6 LCY         6 LCY         ne:       Exhibit 7-23B, Table         factor:       Cat Handbook         CION         ction:       50 feet         ction:       4,589.5 LCY/hr         cription:       Compacted fill or end	1, Exh. 7-item 23, Fig. B-1   mbankment 0.9		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.000         Loose volume:       2,72         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	ITIES $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $7,500$ $6$ $7,500$ $6$ $7,500$ $6$	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	ITIES         6         0         6 LCY         ne:       Exhibit 7-23B, Table         factor:       Cat Handbook         TION         ction:       50 feet         ction:       4,589.5 LCY/hr         cription:       Compacted fill or end         0 %       7,500 feet         2,650 lbs/LCY	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANTInitial Volume:2,72Swell factor:1.00Loose volume:2,72Source of estimated voluSource of estimated swellHOURLY PRODUCTAverage push distance:Unadjusted hourly productMaterials consistency destAverage push gradient:Average site altitude:Material weight:Weight description:	ITIES         6         0         6 LCY         ne:       Exhibit 7-23B, Table         factor:       Cat Handbook         Store       Cat Handbook         CION       50 feet         cription:       4,589.5 LCY/hr         cription:       Compacted fill or end         0 %       7,500 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	ITIES $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $7$ $7,500$ $6$ $2,650$ $1bs/LCY$ Decomposed rock - 25% Rock,         Factor	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volu       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency dest         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S	ITIES $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $6$ $7$ $6$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ $7$ <t< td=""><td>1, Exh. 7-item 23, Fig. B-1</td><td></td><td></td></t<>	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volu       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S         Material consist       Material consist	ITIES $6$ $0$ $6$ LCY $6$ LCY $ne:$ Exhibit 7-23B, Table         factor:       Cat Handbook         TION $50$ feet         ction: $4,589.5$ LCY/hr         cription:       Compacted fill or end $0$ %       7,500 feet $2,650$ lbs/LCY       Decomposed rock - 25% Rock.         Factor       Skill: $0.750$ ency: $0.900$	1, Exh. 7-item 23, Fig. B-1		
MATERIAL QUANT         Initial Volume:       2,72         Swell factor:       1.00         Loose volume:       2,72         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consistence	ITIES $6$ $0$ $6$ LCY $6$ LCY         ne:       Exhibit 7-23B, Table         factor:       Cat Handbook         CION         cription: $50$ feet         cription: $4,589.5$ LCY/hr         cription:       Compacted fill or end $0\%$ 7,500 feet $2,650$ lbs/LCY       Decomposed rock - 25% Rock,         Factor       Skill: $0.750$ ency: $0.900$ thol:         therein the second s	1, Exh. 7-item 23, Fig. B-1		

cy: 0.830	(1 SHIFT/DAY)
le: 0.800	(FND-RF)
nt: 1.000	(CAT HB)
le: 1.000	(CAT HB)
ht: 0.868	(CAT HB)
be: 1.000	(PAT)
on: 0.4668	
2,142.38 LCY/hr	
2142.38 LCY/hr	
	cy:       0.830         le:       0.800         nt:       1.000         le:       1.000         ht:       0.868         pe:       1.000         ph:       0.4668         2,142.38 LCY/hr         2142.38 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.401/LCY

Total job time:	<b>1.27</b> Hours
Total job cost:	\$1,094

rask description.	Regrade Ditch D	5			
: Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #· 429	State	Colorado		Abbreviation.	None
Date: $3/12/2025$	County:	Moffat		Filename:	429
User: HR1					
Agency or organ	ization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: <u>NA</u>					
Shift Basis: 1 pe	er day				
Data Source: (CR	<b>G</b> )				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
		\$38 50	NΛ		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUANT	\$860.11 \$860.11	\$38. <i>37</i>			
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000	\$860.11 <b>\$860.11</b> ITIES 7	-			
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717	\$860.11 <b>\$860.11</b> ITIES 7 ) 7 1 LCY				
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volun       5000000000000000000000000000000000000	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:         6,717         Swell factor:         1.000         Loose volume:         6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average push gradient:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	<u>B-1</u>	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:         6,717         Swell factor:         1.000         Loose volume:         6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7	23B, Table book	1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7			<u>B-1</u>	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:         6,717         Swell factor:         1.000         Loose volume:         6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency deset         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7	<u>- 23B, Table</u> <u>- 23B, Table</u> book <u>Y/hr</u> <u>- cted fill or er</u> <u>- 25% Rock</u>	1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S	\$860.11 <b>\$860.11</b> <b>ITIES</b> 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT:         Initial Volume:       6,717         Swell factor:       1.000         Loose volume:       6,717         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consiste         Dozing met	\$860.11         \$860.11         ITIES         7         7         7         7         7         7         7         7         7         7         7         7         7         7         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1          1          1          1		1, Exh. 7-item 23, Fig.	B-1	

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.4668	
Adjusted unit production:	2,142.38 LCY/hr	
Adjusted fleet production:	2142.38 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.401/LCY

Total job time:	<b>3.14</b> Hours
Total job cost:	\$2,697

1			-		
Colowyo Coal Mine	Pern	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #· 431	State	Colorado		Abbreviation.	None
Date: $3/12/2025$	Gunty:	Moffat		Filename:	431
User: HR1	County.	Wiomat		T fieldifie.	431
Agency or organ	ization name: DR	MS			
HOURLY EQUIPME	<u>NT COST</u>				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: NA					
Shift Basis: 1 pe	er day				
Data Source: (CR	2G)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$860.11 <b>\$860.11</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 602	\$860.11 <b>\$860.11</b> ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: 1.12	\$860.11 <b>\$860.11</b> ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <b>677</b>	\$860.11 <b>\$860.11</b> ITIES 5 LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>602</u> Swell factor: <u>1.12</u> Loose volume: <u>677</u>	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY Eachibit 7		1 Enk 7 item 22 Ein	D 1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> Loose volume: <u>677</u> Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handle	 	 1, Exh. 7-item 23, Fig.	.B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <u>677 1</u> Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb	 23B, Table pook	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 602 Swell factor: 1.12 Loose volume: 677 1 Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb	 23B, Table pook	 1, Exh. 7-item 23, Fig.	.B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> ; Loose volume: <u>677 J</u> Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>YION</b>	 23B, Table pook	 1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <u>677 1</u> Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>CION</b> 50 feet trian: 4580 5 LCN	 23B, Table pook	1, Exh. 7-item 23, Fig.	.B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> ; Loose volume: <u>677</u> I Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>TON</b> 50 feet ction: 4,589.5 LCY	  23B, Table pook Z/hr	 1, Exh. 7-item 23, Fig.	<u>B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 602 Swell factor: 1.12: Loose volume: 677 1 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>YION</b> 250 feet etion: 50 feet etion: 4,589.5 LCY cription: Compac	 23B, Table pook //hr cted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> ; Loose volume: <u>677 1</u> Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>CION</b> ction: 4,589.5 LCY cription: Compac	 23B, Table pook //hr cted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	. <u>B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <u>677 1</u> Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>CION</b> ction: 50 feet 4,589.5 LCY cription: Compace 0 % 7,500 feet	 23B, Table pook //hr cted fill or en	1, Exh. 7-item 23, Fig.	<u>.B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <u>677</u> I Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>CION</b> ction: 50 feet ction: 4,589.5 LCY cription: Compace 0 % 7,500 feet	  23B, Table pook //hr 	1, Exh. 7-item 23, Fig.	. <u>B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> ; Loose volume: <u>677</u> I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>YION</b> ction: 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY		 1, Exh. 7-item 23, Fig.   mbankment 0.9	. B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 602 Swell factor: 1.122 Loose volume: 677 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	<u>\$860.11</u> <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: <u>Exhibit 7-</u> factor: <u>Cat Handt</u> <b>YION</b> cription: <u>50 feet</u> 4,589.5 LCY cription: <u>Compac</u> 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed	 23B, Table pook //hr cted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	. <u>B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 602 Swell factor: 1.12: Loose volume: 677 I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>CION</b> cription: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed <u>Factor</u>			.B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <u>677</u> I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 LCY ne: Exhibit 7- factor: Cat Handb <b>CION</b> ction: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.7			. <u>B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>602</u> Swell factor: <u>1.12</u> : Loose volume: <u>677</u> I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	\$860.11         \$860.11         ITIES         5         LCY         ne:       Exhibit 7         factor:       Cat Handb         TON         stion:       50 feet         ction:       50 feet         ction:       4,589.5 LCY         cription:       Compace         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.7         Skill:       0.7         ency:       0.9		1, Exh. 7-item 23, Fig.	<u>. B-1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>602</u> Swell factor: <u>1.12</u> ; Loose volume: <u>677</u> I Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency des	\$860.11         \$860.11         ITIES         5         LCY         ne:       Exhibit 7         factor:       Cat Handb         YION         stion:       50 feet         cription:       Compace         0 %       7,500 feet         2,550 lbs/LCY         Earth - Dry packed         Factor         Skill:       0.7         ency:       0.9         1.2         Short:       0.5		1, Exh. 7-item 23, Fig.           1, Exh. 7-item 23, Fig.           mbankment 0.9           Source           (AVG.)           (CAT HB)           (S-BY-S)	. <u>B-1</u>	

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradien	it: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	it: 0.902	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correction	n:0.4851	
Adjusted unit production:	2,226.37 LCY/hr	
Adjusted fleet production:	2226.37 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.386/LCY

Total job time:	<b>0.30</b> Hours
Total job cost:	\$262

rask description:	. 0 .				
Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task # 122	Stata	Colorado		Abbroviation	Nona
Date: $3/12/2025$	State.	Moffat		Filename	432
User: HR1	County.	Wiomat		T noname.	452
		1.0			
Agency or organ	ization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: NA					
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
-					
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUANT	\$860.11 \$860.11	\$38.59	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 2.77	\$860.11 <b>\$860.11</b> ITIES 2	\$38.59	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>2,777</u> Swell factor: 1.12:	\$860.11 <b>\$860.11</b> ITIES 2 5	\$38.59	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 2,772 Swell factor: 1.122 Loose volume: 3,119	\$860.11 <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY	\$38.59 	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,772 Swell factor: 1.122 Loose volume: 3,119	\$860.11 <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY Exhibit 7	\$38.59	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <b>MATERIAL QUANT</b> Initial Volume: 2,777 Swell factor: 1.12 Loose volume: 3,119 Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Hand	\$38.59	NA	B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.123 Loose volume: 3,119 Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Handl	\$38.59	NA	B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.12 Loose volume: 3,119 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$860.11 <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Handl	\$38.59	  1, Exh. 7-item 23, Fig.	 B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.12: Loose volume: 3,119 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$860.11 <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Handl <b>CION</b>	\$38.59	 1, Exh. 7-item 23, Fig.	B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.12; Loose volume: 3,119 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$860.11 \$860.11 ITIES 2 5 9 LCY ne: Exhibit 7- factor: Cat Handl CION 50 feet	\$38.59	 1, Exh. 7-item 23, Fig.	<u>B-1</u>	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,772 Swell factor: 1.122 Loose volume: 3,119 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$860.11 \$860.11 ITIES 2 5 9 LCY ne: Exhibit 7- factor: Cat Handle CION 50 feet ction: 4,589.5 LCY	\$38.59 	 1, Exh. 7-item 23, Fig.	<u>B-1</u>	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.12: Loose volume: 3,119 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$860.11           \$860.11           ITIES           2           5           9 LCY           ne:         Exhibit 7-           factor:         Cat Handle           Comparison         State           50 feet         State           ction:         50 feet           4,589.5 LCY         State	\$38.59 	 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,77? Swell factor: 1.12: Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	\$860.11           \$860.11           ITIES           2           5           9 LCY           ne:         Exhibit 7- factor:           factor:         Cat Handle           CION           ction:         50 feet           4,589.5 LCY           cription:         Compace           0 %	\$38.59 	 1, Exh. 7-item 23, Fig.   mbankment 0.9	<u>B-1</u>	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,772 Swell factor: 1.122 Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude:	\$860.11 \$860.11 ITIES 2 5 9 LCY ne: Exhibit 7- factor: Cat Handle CION Cat Handle CION Compace 0 % 7,500 feet	\$38.59  23B, Table book Y/hr cted fill or en		<u>B-1</u>	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.12; Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	<u>\$860.11</u> <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Handle CION CION cription: <u>50 feet</u> 4,589.5 LCY cription: Compace <u>0 %</u> 7,500 feet 2,550 lbs/LCY	\$38.59		B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.123 Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$860.11           \$860.11           ITIES           2           5           9 LCY           ne:         Exhibit 7-           factor:         Cat Handle           CION         50 feet           ction:         4,589.5 LCY           cription:         Compace           0 %         7,500 feet           2,550 lbs/LCY         Earth - Dry packed	\$38.59		<u>B-1</u>	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,772 Swell factor: 1.122 Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	<u>\$860.11</u> <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Handle <b>CION</b> cription: 4,589.5 LCY cription: Compace 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor	\$38.59		B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.12; Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated volur Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	<u>\$860.11</u> <b>\$860.11</b> <b>ITIES</b> 2 5 9 LCY ne: Exhibit 7- factor: Cat Handl CION 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.7	\$38.59		B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:	\$860.11           \$860.11           \$860.11           ITIES           2           5           9 LCY           ne:         Exhibit 7- Cat Handle           7 factor:         Cat Handle           CION         50 feet           cription:         Compact           0 %         7,500 feet           2,550 lbs/LCY         Earth - Dry packed           Factor         50.10 feet           Skill:         0.1 feet	\$38.59 		B-1	
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 2,777 Swell factor: 1.123 Loose volume: 3,119 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste Dozing met	\$860.11         \$860.11         ITIES         2         5         9 LCY         ne:       Exhibit 7-         factor:       Cat Handle         CION         Stion:       50 feet         cription:       Compace         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.2         Skill:       0.2       0.2         factor       Skill:       0.2         Skill:       0.1       0.2	\$38.59 		<u>B-1</u>	

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.902	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4851	
Adjusted unit production:	2,226.37 LCY/hr	
Adjusted fleet production:	2226.37 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.386/LCY

Total job time:	<b>1.40</b> Hours
Total job cost:	\$1,205

			-		
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #: $433$ Date: $3/12/2025$	State: County:	Colorado Moffat		Abbreviation: Filename:	None 433
User: <u>HR1</u>		DMC			
Agency of orga	mization name. <u>DR</u>				
HOURLY EQUIPME	ENT COST				
Basic Machine: Ca	t D11T - 11U				
Blade Type: Un	U vivorsal				
Attachmont: NA	N N N N N N N N N N N N N N N N N N N				
Shift Basis: 1 n	n Nor dav				
Data Source: (Cl	RG)				
Cost Brookdarre	.,				
Lost Breakdown:			Litilization 0/		
Ownershin Cost/Hour		\$496.62	$\frac{0 \text{ IIIZAUON }\%}{N \Delta}$		
Operating Cost/Hour		\$32/1 00	100		
Ripper own Cost/Hour		\$0.00	NA		
Ripper own. Cost/Hour.		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA NA		
MATERIAL OUANT	PITIES				
MATERIAL QUANT Initial Volume: 434	<u>FITIES</u>				
MATERIAL QUANTInitial Volume:434Swell factor:1.12Loose volume:488	EITIES 25 LCY				
MATERIAL QUANTInitial Volume:434Swell factor:1.12Loose volume:488Source of estimated volu	EITIES 25 LCY me: Exhibit 7-		1, Exh. 7-item 23, Fig. B-	1	
MATERIAL QUANTInitial Volume:434Swell factor:1.12Loose volume:488Source of estimated voluSource of estimated swel	<b>EITTIES</b> 25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand		1, Exh. 7-item 23, Fig. B-	1	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu       swel         Source of estimated swel       swel         HOURLY PRODUCT       100	<b>EITIES</b> 25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b>		1, Exh. 7-item 23, Fig. B-	1	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:	<b>EITIES</b> 25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> 50 feet		1, Exh. 7-item 23, Fig. B- 	.1	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu       swell         Source of estimated swel       well         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       well	EITIES         25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand         TION         section:       50 feet         4,589.5 LCY		1, Exh. 7-item 23, Fig. B- 	·1	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu       Source of estimated swel         HOURLY PRODUC'       Average push distance:         Unadjusted hourly produ       Materials consistency destinated	25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand         TION         action:       50 feet         action:       4,589.5 LC         scription:       Compa		1, Exh. 7-item 23, Fig. B- 	<u>.1</u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:	<b>EITIES</b> 25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action: $\frac{50 \text{ feet}}{4,589.5 \text{ LCY}}$ scription:       Compa         0 %       7,500 feet		1, Exh. 7-item 23, Fig. B-   mbankment 0.9	<u>.1</u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	EITIES         25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand         TION         action:       50 feet         action:       4,589.5 LC         scription:       Compa         0 %       7,500 feet         2,550 lbs/LCY		1, Exh. 7-item 23, Fig. B-    mbankment 0.9	. <u>1</u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:	EITTIES         25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand         TION         action: $50$ feet         action: $4,589.5$ LC         scription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed		1, Exh. 7-item 23, Fig. B-   mbankment 0.9	<u>.</u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu       Source of estimated swel         Source of estimated swel       HOURLY PRODUCT         Average push distance:       Unadjusted hourly produ         Materials consistency de:       Average site altitude:         Material weight:       Weight description:         Lob Condition Correction       Output	25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand         TION         action:       50 feet         action:       4,589.5 LC*         scription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         Earth - Dry packed       2100 feet		1, Exh. 7-item 23, Fig. B-	<u>.1</u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu       Source of estimated swel         HOURLY PRODUCT       Average push distance:         Unadjusted hourly produ       Materials consistency de:         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction       Operator	EITIES         25         LCY         ume:       Exhibit 7-         Il factor:       Cat Hand         TION         action:       50 feet         action:       4,589.5 LC'         scription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         n Factor       Skill:       0.		1, Exh. 7-item 23, Fig. B- 	<u></u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist	<b>FITIES</b> 25       EXhibit 7-         LCY       Cat Hand         Il factor:       Cat Hand <b>TION</b> 50 feet         action: $\frac{50 \text{ feet}}{4,589.5 \text{ LC'}}$ scription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         h Factor       Skill:       0.         strait:       0.       0.		1, Exh. 7-item 23, Fig. B- 	<u>.</u>	
MATERIAL QUANT         Initial Volume:       434         Swell factor:       1.12         Loose volume:       488         Source of estimated volu         Source of estimated swel         HOURLY PRODUC'         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator         Material consist         Dozing me         Vieit	<b>FITIES</b> 25       Exhibit 7-         LCY       Cat Hand         If factor:       Cat Hand <b>TION</b> 50 feet         action: $4,589.5$ LC'         scription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         n Factor       Skill:       0.         tency:       0.       1.         bility:       1.       1.		1, Exh. 7-item 23, Fig. B- 	<u>-</u>	
Task # 433

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.902	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.4851	
Adjusted unit production:	2,226.37 LCY/hr	
Adjusted fleet production:	2226.37 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.386/LCY

Total job time:	<b>0.22</b> Hours
Total job cost:	\$189

Task description:	-ingrade ropoon		7		
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	ICATION				
Task #:     434       Date:     3/12/2025       User:     HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 434
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	<u>ENT COST</u>				
Basic Machine: <u>Cat</u>	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	iversal				
Attachment: NA					
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$860.11 <b>\$860.11</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u>	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 311 Swell factor: 110	\$860.11 <b>\$860.11</b> <b>TTIES</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 311 Swell factor: 1.12: Loose volume: 350	\$860.11 <b>\$860.11</b> <b>TTIES</b> 5				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.122         Loose volume:       350	\$860.11 <b>\$860.11</b> <b>TTIES</b> 5 LCY				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur	\$860.11 \$860.11 		 1, Exh. 7-item 23, Fig	. B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350 I         Source of estimated volur         Source of estimated swell	\$860.11 <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: Exhibit 7- 1 factor: Cat Hand		 1, Exh. 7-item 23, Fig	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7</u> factor: <u>Cat Hand</u> <b>FION</b>		 1, Exh. 7-item 23, Fig	. B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7-</u> 1 factor: <u>Cat Hand</u> <b>TION</b>		1, Exh. 7-item 23, Fig	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:	<u>\$860.11</u> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7-</u> factor: <u>Cat Hand</u> <u>FION</u> <u>50 feet</u>		 1, Exh. 7-item 23, Fig 	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: Exhibit 7- 1 factor: Cat Hand <b>TION</b> ction: 50 feet 4,589.5 LCY		 1, Exh. 7-item 23, Fig 	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des			 1, Exh. 7-item 23, Fig   mbankment 0.9	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:	<u>\$860.11</u> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7-</u> 1 factor: <u>Cat Hand</u> <b>TION</b> ction: <u>50 feet</u> 4,589.5 LC scription: <u>Compa</u> <u>0 %</u> 7,500 feet		 1, Exh. 7-item 23, Fig   mbankment 0.9	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7</u> - 1 factor: <u>Cat Hand</u> <b>TION</b> ction: <u>50 feet</u> 4,589.5 LC cription: <u>Compa</u> <u>0 %</u> 7,500 feet <u>2,550 lbs/LCY</u>		 1, Exh. 7-item 23, Fig   mbankment 0.9	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7</u> - 1 factor: <u>Cat Hand</u> <b>TION</b> ction: <u>50 feet</u> 4,589.5 LC cription: <u>Compa</u> <u>0 %</u> 7,500 feet <u>2,550 lbs/LCY</u> Earth - Dry packed		 1, Exh. 7-item 23, Fig   mbankment 0.9	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	<u>\$860.11</u> <b>TTIES</b> 5 LCY ne: <u>Exhibit 7-</u> 1 factor: <u>Cat Hand</u> <b>TION</b> ction: <u>50 feet</u> 4,589.5 LC cription: <u>Compa</u> <u>0 %</u> 7,500 feet 2,550 lbs/LCY <u>Earth - Dry packec</u> <u>Factor</u>			<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S	<u>\$860.11</u> <b>TTIES</b> 5 LCY ne: Exhibit 7- factor: Cat Hand <b>TION</b> 50 feet ction: 4,589.5 LC cription: Compa 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0.		 1, Exh. 7-item 23, Fig  mbankment 0.9 <u>Source</u> (AVG.)	. B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consister	<u>\$860.11</u> <b>\$860.11</b> <b>TTIES</b> 5 LCY ne: Exhibit 7- 1 factor: Cat Hand <b>TION</b> ction: 4,589.5 LC cription: Compa 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0. ency: 0.		 1, Exh. 7-item 23, Fig  mbankment 0.9 <u>Source</u> (AVG.) (CAT HB	<u>. B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       311         Swell factor:       1.12:         Loose volume:       350         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consiste         Dozing met	<u>\$860.11</u> <b>TTIES</b> 5 LCY ne: Exhibit 7- 1 factor: Cat Hand <b>TION</b> ction: 4,589.5 LC' ccription: Compa 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor Skill: 0. ency: 0. thod: 1.		 1, Exh. 7-item 23, Fig  mbankment 0.9  <u>Source</u> (AVG.) (CAT HB (S-BY-S	<u>. B-1</u>	

Job efficient	cy:	0.830	(1 SHIFT	T/DAY)
Spoil pi	ile:	0.800	(FND	-RF)
Push gradie	ent:	1.000	(CAT	HB)
Altitud	de:	1.000	(CAT	HB)
Material Weig	t:	0.902	(CAT	HB)
Blade typ	pe:	1.000	(PA	T)
Net correction	on:	0.4851		
Adjusted unit production:	2,2	226.37 LCY/hr		
Adjusted fleet production:	22	26.37 LCY/hr		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.386/LCY

Total job time:	<b>0.16</b> Hours
Total job cost:	\$135

	<u> </u>		-		
Colowyo Coal Mine	Perm	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task # 135	State	Colorado		Abbreviation	None
Date: $\frac{433}{3/12/2025}$	State	Moffat		Filename:	135
User: HR1	County	Monat		Thename.	433
Agency or organ	ization name: DR	MS			
i igenej er ergan					
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Univ	versal				
Attachment: NA					
Shift Basis: 1 pe	r dav				
Data Source: (CR	G)				
	<b>S</b> )				
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper on Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.50	NA NA		
Operator Cost/Hour.		\$30.39	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$860.11 <b>\$860.11</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$860.11 <b>\$860.11</b> ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727	\$860.11 <b>\$860.11</b> ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125	\$860.11 <b>\$860.11</b> ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943	\$860.11 <b>\$860.11</b> <b>ITIES</b> 				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum	\$860.11 <b>\$860.11</b> <b>ITIES</b> 	   23B. Table	1 Exh 7-item 23 Fig	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1,125 Loose volume: 1,943 Source of estimated volum Source of estimated swall	\$860.11 <b>\$860.11</b> <b>[TIES</b> 	– – – 23B, Table	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANTI</u> Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated swell	\$860.11 <b>\$860.11</b> <b>[TIES</b> 	 23B, Table book	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> Content of the second	– – 23B, Table book	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	 23B, Table book	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$860.11 <b>\$860.11</b> <b>TTIES</b> 5 5 5 5 5 5 5 5 5 5 5 5 5	– – – 23B, Table vook	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produce	\$860.11 <b>\$860.11</b> <b>[TIES</b> 	- - 23B, Table book	1, Exh. 7-item 23, Fig.	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$860.11 <b>\$860.11</b> <b>[TIES</b> 	  23B, Table 900k	 1, Exh. 7-item 23, Fig. 	<u>B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1.125         Loose volume:       1,943         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc	\$860.11 <b>\$860.11</b> <b>(TIES</b> ) CCY he: <u>Exhibit 7-2</u> factor: <u>Cat Handb</u> <b>ION</b> tion: <u>50 feet</u> 4,589.5 LCY cription: <u>Compac</u>		 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc	\$860.11 <b>\$860.11</b> <b>(TIES</b> DLCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac	-  23B, Table 2000k 7/hr ted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient:	\$860.11 <b>\$860.11</b> <b>(TIES</b> DLCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac 0 %		 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1,125         Loose volume:       1,943         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:	\$860.11 <b>\$860.11</b> <b>(TIES</b> DLCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet	 23B, Table 2000k //hr /ted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude: Material weight:	\$860.11 <b>\$860.11</b> <b>THES</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b>	  23B, Table pook //hr ted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	<u>B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1.125         Loose volume:       1,943         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:	\$860.11 <b>\$860.11</b> <b>ITIES</b> DLCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY	 23B, Table 2000k //hr ted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	B-1	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 1,727 Swell factor: 1.125 Loose volume: 1,943 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient: Average site altitude: Material weight: Weight description:	\$860.11 <b>\$860.11</b> <b>ITIES</b> 5 5 5 5 5 5 5 5 5 5 5 5 5	 23B, Table book //hr ted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	<u>B-1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1,125         Loose volume:       1,943         Source of estimated volum         Source of estimated volum         Source of estimated volum         Materials consistence:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$860.11 <b>\$860.11</b> <b>(TIES</b> 50 LCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed Factor	 23B, Table 2000k //hr /ted fill or en		B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1,125         Loose volume:       1,943         Source of estimated volum         Source of estimated volum         Source of estimated volum         Materials consistence:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$860.11 <b>\$860.11</b> <b>(TIES</b> 50 LCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed <u>Factor</u> Kill: 0.7			B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1,125         Loose volume:       1,943         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consiste	\$860.11 <b>\$860.11</b> <b>[TIES]</b> <b>(TIES]</b> <b>(Carrent and box)</b> <b>(Carrent and box)</b> <b>(Carrent and box)</b> <b>(Carrent and box)</b> <b>(Carrent and box)</b> <b>(Compace a</b>			B-1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTI         Initial Volume:       1,727         Swell factor:       1,125         Loose volume:       1,943         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consiste         Dozing met	\$860.11 <b>\$860.11</b> <b>ITIES</b> 50 LCY he: Exhibit 7-2 factor: Cat Handb <b>ION</b> tion: 50 feet 4,589.5 LCY cription: Compac 0 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed <u>Factor</u> kill: 0.7 ncy: 0.9 hod: 1.2			B-1	

Job efficiency	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradien	it: 1.000	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	it: 0.902	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correction	n:0.4851	
Adjusted unit production:	2,226.37 LCY/hr	
Adjusted fleet production:	2226.37 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.386/LCY

Total job time:	<b>0.87</b> Hours
Total job cost:	\$751

usk desemption.						
Colowyo Coal Mi	ne	Per	mit Action:	MT9	Permit/Job#:	C1981019
ROJECT IDEN	<b>FIFICATIO</b>	<u>ON</u>				
Task #· 437		State:	Colorado		Abbreviation:	None
Date: $3/12/20$	)25	County:	Moffat		Filename:	437
User: HR1		e o unity i				,
Agency or o	organization	name: DF	RMS			
IOURLY EQUIP	PMENT CO	DST				
Basic Machine:	Cat D11T -	11U				
Horsepower:	850			_		
Blade Type:	Universal					
Attachment:	NA					
Shift Basis	1 per dav					
Data Source:	(CRG)					
	(010)					
Cost Breakdown:			i			
				Utilization %		
Ownership Cost/Ho	our:		\$496.62	NA		
Operating Cost/Ho	our:		\$324.90	100		
Cipper own. Cost/Ho	our:		\$0.00	NA		
Ripper op. Cost/Ho	our:		\$0.00	0		
			\$38 50	NA		
Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hou	our: : <u>\$860.</u> r: <b>\$860.</b> <b>NTITIES</b>	11 11	φ30.37			
Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hou <u>IATERIAL QUA</u> Initial Volume:	our:	11 11	φ30.55			
Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hou <u>IATERIAL QUA</u> Initial Volume: Swell factor:	our: : <u>\$860.</u> r: <b>\$860.</b> ANTITIES 2,688 1,125	11 11	φ30.57			
Operator Cost/Ho otal unit Cost/Hour: otal Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	xnr:	11 11	φ30.57			
Operator Cost/Ho otal unit Cost/Hour: otal Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: ource of estimated x	x x x x x x x x x x x x x x x x x x x	11 11 Exhibit 7		1 Exh 7-item 23 Fig	B-1	
Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: ource of estimated y ource of estimated s	xnr: \$860. x: \$860. x: \$860. xnr: \$860. xnr: x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x860. x	11 11 Exhibit 7 Cat Hand	-23B, Table	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho otal unit Cost/Hour: otal Fleet Cost/Hou <b>MATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: ource of estimated so	sur:       \$860.         r:       \$860.         xnTITIES       \$860.         2,688       \$1.125         3,024 LCY       \$2,688         volume:       \$3,024 LCY         well factor:       \$3,024 LCY	11 11 Exhibit 7 Cat Hand	-23B, Table	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hour <b>IATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: ource of estimated volume ource of estimated set <b>HOURLY PRODE</b>		11 11 Exhibit 7 Cat Hand	-23B, Table book	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho otal unit Cost/Hour otal Fleet Cost/Hour <b>IATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: ource of estimated volume ource of estimated set <b>HOURLY PRODU</b> Average push distance		11 11 Exhibit 7- Cat Hand 200 feet	-23B, Table book	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour <b>MATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: ource of estimated wo ource of estimated set <b>HOURLY PRODU</b> Average push distance Inadjusted hourly pr		11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC	-23B, Table book	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour <b>MATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: ource of estimated volume of estimated set <b>HOURLY PRODI</b> Average push distance Unadjusted hourly presented to a set of the se		11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa	-23B, Table book Y/hr cted fill or er	1, Exh. 7-item 23, Fig	<u>. B-1</u>	
Operator Cost/Ho Total unit Cost/Hour: Total Fleet Cost/Hour <b>MATERIAL QUA</b> Initial Volume: Swell factor: Loose volume: ource of estimated volume of estimated set <b>HOURLY PRODU</b> Average push distance Inadjusted hourly present of the set		11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC Compa	-23B, Table book Y/hr cted fill or er	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho Total unit Cost/Hours Total Fleet Cost/Hours Tatterial Volume: Swell factor: Loose volume: ource of estimated volume of estimated s HOURLY PRODUCE Average push distance Inadjusted hourly pre- Materials consistency Average push gradient Average site altitude:	x       \$860.         r:       \$860.         x       \$860.         2,688       \$1.125         3,024 LCY       \$\$000me:         swell factor:       \$\$         UCTION       \$\$         ce:       \$\$         coduction:       \$\$         y       description         nt:       \$\$         \$\$       \$\$         \$\$       \$\$	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC Compa feet	-23B, Table book Y/hr cted fill or en	1, Exh. 7-item 23, Fig	<u>. B-1</u>	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour Tatterial Volume: Swell factor: Loose volume: ource of estimated volume of estimated s HOURLY PRODI Average push distance Inadjusted hourly pr Materials consistency Average push gradient Average site altitude: Material weight:	x       \$860.         r:       \$860.         x       \$860.         x       \$860.         x       \$860.         x       \$860.         2,688       1.125         3,024 LCY       xolume:         swell factor:          wolume:          swell factor:          uction:          roduction:          y description          nt:       5 %         :	11         11         11         1         200 feet         1,560.0 LC         :       Compa         feet         lbs/LCY	-23B, Table book Y/hr cted fill or en		<u>. B-1</u>	
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour Tatterial Volume: Swell factor: Loose volume: ource of estimated volume of estimated volume of estimated volume of estimated set ource of estimated set ource of estimated set ource ource of estimated set ource ource of estimated set ource ource of estimated set ource ource of estimated set ource of estimated set ource ource of estimated set ource ource of estimated set ource ou	x       \$860.         r:       \$860.         x       \$860.         x       \$860.         2,688       1.125         3,024 LCY       yolume:         wolume:       swell factor:         UCTION	11         11         11         11         11         1	-23B, Table book Y/hr cted fill or en		<u>. B-1</u>	
Operator Cost/Ho Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Material Volume: Swell factor: Loose volume: Loose volume: Cose volume:	x       \$860.         r:       \$860.         x       \$860.         x       \$860.         x       \$860.         x       \$860.         x       \$860.         2,688       1.125         3,024 LCY       yolume:         swell factor:          UCTION          ce:          roduction:          y description          nt:       5 %         2,550	11           11           11           1			. B-1	
Operator Cost/Ho otal unit Cost/Hour: otal Fleet Cost/Hour: otal Fleet Cost/Hour: <u>Initial Volume:</u> Swell factor: Loose volume: Loose volume: <u>Initial Volume:</u> Swell factor: Loose volume: <u>Initial Volume:</u> Swell factor: <u>Initial Volume:</u> <u>Initial Volume:</u> <u>Initial</u>	x       \$860.         r:       \$860.         x       \$860.         x       \$860.         x       \$860.         x       \$860.         2,688       1.125         3,024 LCY       xolume:         swell factor:          yolume:          swell factor:          uction:          y description          nt:       5 %         2,550          Earth	11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         12         12         13         14         14         15         15		1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/Ho Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Autors of Cost Cost Swell factor: Loose volume: Loose volume: Loose volume: Cost of estimated volume ource of estimated volume ource of estimated volume ource of estimated volume ource of estimated volume Autors of esti	x       \$860.         r:       \$860.         x       \$860.         x       \$860.         x       \$860.         2,688       1.125         3,024 LCY       xolume:         swell factor:          wolume:          swell factor:          UCTION          ce:          roduction:          y description          nt:       5 %         2,550	11         11         11         1         1	338.337		<u>. B-1</u>	
Operator Cost/Ho Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: Auternal Volume: Swell factor: Loose volume: Loose volume: Total factor: Loose volume: Swell factor: Loose volume: Swell factor: Loose volume: Swell factor: Swell f	sur:	11         11         11         1         200 feet         1,560.0 LC'         :       Compa         feet         lbs/LCY         - Dry packed         0.         0.	-23B, Table book Y/hr cted fill or en 		<u>. B-1</u>	
Operator Cost/Ho Total unit Cost/Hours Total Fleet Cost/Hours Total Fleet Cost/Hours Total Fleet Cost/Hours Total Fleet Cost/Hours Total Fleet Cost/Hours Autor of Participation Swell factor: Loose volume: Loose volume: Total factor: Loose volume: Swell factor: Loose volume: Swell factor: Loose volume: Swell factor: Swell factor: S	x       \$860.         r:       \$860.         x       \$860.         x       \$860.         2,688       1.125         3,024 LCY       yolume:         wolume:       swell factor:         UCTION	11         11         11         11         1         200 feet         1,560.0 LC'         :       Compa         feet         lbs/LCY         - Dry packed         0.         0.         0.         0.         1.	-23B, Table book Y/hr cted fill or en 	1, Exh. 7-item 23, Fig	<u>. B-1</u>	

Job efficience	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	0.903	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	t:	0.902	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.4381	
Adjusted unit production:	68	3.44 LCY/hr	
Adjusted fleet production:	68	<b>3.44</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.258/LCY

Total job time:	<b>4.42</b> Hours
Total job cost:	\$3,806

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Colowyo Coal M	ine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDEN	<u>TIFICATI(</u>	<u>ON</u>				
Task #· 438		State:	Colorado		Abbreviation	None
Date: $3/12/2$	025	County:	Moffat		Filename:	438
User: HR1	<u></u>	e o unity :				
Agency or	organization	name: DF	RMS			
HOURLY EQUI	PMENT CO	OST				
Basic Machine:	Cat D11T -	11U				
Horsepower:	850					
Blade Type:	Universal					
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown						
JUST DICARGOWII.				Utilization %		
Ownershin Cost/H	our:		\$496.62	NA		
Operating Cost/H	our.		\$324.90	100		
Ripper own. Cost/H	our:		\$0.00	NA		
Ripper on. Cost/H	our:		\$0.00	0		
			\$29.50	NT A		
Operator Cost/H otal unit Cost/Hou otal Fleet Cost/Hou	our: r: <u>\$860.</u> 1r: <b>\$860.</b>	11 <b>11</b>	\$38.39			
Operator Cost/H Fotal unit Cost/Hou Fotal Fleet Cost/Hou MATERIAL QU	our:	11 11	\$38.39			
Operator Cost/H Fotal unit Cost/Hou Fotal Fleet Cost/Hou MATERIAL QU Initial Volume:	our:	11 11	\$38.39			
Operator Cost/H Fotal unit Cost/Hou Fotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor:	our:	11 11	\$38.39			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	our: r: <u>\$860.</u> 1r: <b>\$860.</b> <b>ANTITIES</b> 2,688 1.125 <b>3,024</b> LCY	11 11	\$38.39			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	our:	11 11 Exhibit 7		1. Exh. 7-item 23. Fig	. B-1	
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	our:	11 <b>11</b> <u>Exhibit 7</u> Cat Hand	<u>\$38.39</u>	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/H Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	our: r: <u>\$860.</u> ar: <b>\$860.</b> <b>ANTITIES</b> 2,688 1.125 <b>3,024</b> LCY volume: swell factor:	11 <b>11</b> 	\$38.39	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	our:	11 <b>11</b> Exhibit 7 Cat Hand	-23B, Table	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/H Cotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	our:	11 11 Exhibit 7 Cat Hand 200 feet	-23B, Table	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/H Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p	our:	11 11 Exhibit 7- Cat Hand 200 feet 1,560.0 LC	\$38.39	1, Exh. 7-item 23, Fig	. B-1	
Operator Cost/H Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p	our:	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa	-23B, Table book		<u>. B-1</u>	
Operator Cost/H Cotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence	our:	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : _Compa	\$38.39 	 1, Exh. 7-item 23, Fig   mbankment 0.9	. B-1	
Operator Cost/H Cotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie	our:	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC :Compa	538.39 		. B-1	
Operator Cost/H Cotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie Average site altitude	our:	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : feet	\$38.39 		. B-1	
Operator Cost/H Cotal unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Inadjusted hourly p Materials consistence Average push gradie Average site altitude	our:	11 11 Exhibit 7- Cat Hand 200 feet 1,560.0 LC : Compa feet	\$38.39		. B-1	
Operator Cost/H Operator Cost/Hou Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distand Inadjusted hourly p Materials consistence Average site altitude Material weight:	our:	11 11 Exhibit 7- Cat Hand 200 feet 1,560.0 LC : Compa feet lbs/LCY	\$38.39		. B-1	
Operator Cost/H Operator Cost/Hou Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description:	our:	11 11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : _Compa feet lbs/LCY - Dry packed	\$38.39		<u>. B-1</u>	
Operator Cost/H Cotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Inadjusted hourly p Materials consistence Average site altitude Material weight: Weight description: ob Condition Correct	our:	11           11           11	\$38.39		. B-1	
Operator Cost/H Cotal unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Mourly PROD Average push distan Inadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Open	our:	11           11           11           11           1           Exhibit 7.           Cat Hand           200 feet           1,560.0 LC           :         Compa           feet           lbs/LCY           - Dry packed           0.	\$38.39		. B-1	
Operator Cost/H Cotal unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Oper Material correct	our:	11           11           11           1	\$38.39		. B-1	
Operator Cost/H Operator Cost/Hou Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Gource of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Open Material co Dozim	our:	11         11         11         11         200 feet         1,560.0 LC         :	\$38.39 		. B-1	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4381	
Adjusted unit production: 6	583.44 LCY/hr	
Adjusted fleet production: 6	683.44 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.258/LCY

Total job time:	<b>4.42</b> Hours
Total job cost:	\$3,806

Colowyo Coal Mine	Perr	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	<b>ICATION</b>				
Task #: 439	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename:	439
User: HR1					,
Agency or orga	unization name: DR	RMS			
HOURLY EOUIPMI	ENT COST				
Basic Machine: Ca	t D11T - 11U				
Horsepower: 850	0				
Blade Type: Un	niversal				
Attachment: NA	A				
Shift Basis: <u>1 p</u>	ber day				
Data Source: (CI	RG)				
Cost Breakdown:					
		¢ 10 5 53	<u>Utilization %</u>		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:	. <u></u>	\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
киррег ор. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
MATERIAL QUANT	<u>FITIES</u>				
MATERIAL QUANT	<b><u>FITIES</u></b> 362				
MATERIAL QUANT Initial Volume: 22,3 Swell factor: 1.12	<b><u>FITIES</u></b> 362 25				
MATERIAL QUANT         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1	<b><u>FITIES</u></b> 362 25 1 <b>57</b> LCY				
MATERIAL QUANT         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu	<b><u>EITIES</u></b> 362 25 <b>157</b> LCY me: Exhibit 7-		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel	EITIES           362           25           157 LCY           ume:         Exhibit 7-           Il factor:         Cat Hand		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUANT         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel	<b><u>EITIES</u></b> 362 25 1 <b>57</b> LCY ume: <u>Exhibit 7-</u> 11 factor: <u>Cat Hand</u>		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUANT         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT	<b><u>EITIES</u></b> 362 25 <b>157</b> LCY Ime: <u>Exhibit 7-</u> Il factor: <u>Cat Hand</u> <b>TION</b>		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Avarage push distance:	<b><u>EITIES</u></b> 362 25 <b>157</b> LCY ume: <u>Exhibit 7-</u> 11 factor: <u>Cat Hand</u> <u><b>TION</b></u> 200 fact		1, Exh. 7-item 23, Fig. B	- <u>1</u>	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu:       Source of estimated swel         HOURLY PRODUC1       Average push distance:	<b>CITIES</b> 362         25         157 LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> 200 feet         ution:       1 560 0 LCY		1, Exh. 7-item 23, Fig. B	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly produ	EXAMPLE           362           25           157 LCY           ume:         Exhibit 7-           Il factor:         Cat Hand           TION         200 feet           action:         1,560.0 LCY		 1, Exh. 7-item 23, Fig. B. 	-1	
MATERIAL QUANT         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destances	<b>CITIES</b> 362         25         157 LCY         ume:       Exhibit 7-         11 factor:       Cat Hand <b>TION</b> action:       200 feet         action:       1,560.0 LCY         scription:       Compare		1, Exh. 7-item 23, Fig. B 	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUC:         Average push distance:         Unadjusted hourly produ         Materials consistency destance:	<b>CITIES</b> 362         25         157 LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action:       1,560.0 LCY         scription:       Compare         -5 %		1, Exh. 7-item 23, Fig. B 	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu       Source of estimated swel         MOURLY PRODUC1       Average push distance:         Unadjusted hourly produ       Materials consistency des         Average push gradient:       Average site altitude:	<b>EITIES</b> 362         25         157 LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action:       1,560.0 LCY         scription:       Compare         -5 %       7,500 feet	 	1, Exh. 7-item 23, Fig. B    mbankment 0.9	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUC1         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:	EITIES           362           25           157 LCY           ume:         Exhibit 7-           11 factor:         Cat Hand           TION           action:         200 feet           1,560.0 LCY           scription:         Compare           -5 %         7,500 feet		1, Exh. 7-item 23, Fig. B   mbankment 0.9	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUC1         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	<b>EITTIES</b> 362         25 <b>L57</b> LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action:       200 feet         1,560.0 LCY         scription:       Compare         -5 %       7,500 feet         2,550 lbs/LCY	 -23B, Table book Y/hr cted fill or en	1, Exh. 7-item 23, Fig. B   mbankment 0.9	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu         Source of estimated swel         HOURLY PRODUC?         Average push distance:         Unadjusted hourly produ         Materials consistency des         Average site altitude:         Material weight:         Weight description:	<b>EITTIES</b> 362         25         157 LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action:       200 feet         1,560.0 LCY         scription:       Compare         -5 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed	 -23B, Table book Y/hr cted fill or en  1	1, Exh. 7-item 23, Fig. B-	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu       Source of estimated swel         MOURLY PRODUC?       Average push distance:         Unadjusted hourly produ       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Lob Condition Correction       Lob Condition Correction	<b>EITTIES</b> 362         25         157 LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action:       200 feet         1,560.0 LCY         scription:       Compare         -5 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         a Factor       Earth - Dry packed		1, Exh. 7-item 23, Fig. B   mbankment 0.9	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu       Source of estimated swel         MOURLY PRODUC1       Average push distance:         Unadjusted hourly produ       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction       Operator	<b>EITTIES</b> 362         25 <b>L57</b> LCY         ume:       Exhibit 7-         Il factor:       Cat Hand <b>TION</b> action:       200 feet         1,560.0 LCY         scription:       Compare         -5 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed <b>Factor</b> 0.		1, Exh. 7-item 23, Fig. B  mbankment 0.9	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu       Source of estimated swel         Source of estimated swel       MOURLY PRODUC1         Average push distance:       Unadjusted hourly produ         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Iob Condition Correction         Operator       Material consist			1, Exh. 7-item 23, Fig. B.	-1	
MATERIAL QUAN1         Initial Volume:       22,3         Swell factor:       1.12         Loose volume:       25,1         Source of estimated volu       Source of estimated swel         HOURLY PRODUC?       Average push distance:         Unadjusted hourly produ       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction       Operator         Material consist       Dozing me			1, Exh. 7-item 23, Fig. B.	-1	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5409	
Adjusted unit production: 84	3.80 LCY/hr	
Adjusted fleet production: 84	<b>3.8</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.019/LCY

Total job time:	<b>29.81</b> Hours
Total job cost:	\$25,643

### Task # 440

Colowyo Coal Mine	Permit Action: <u>N</u>	T9	Permit/Job#:	C1981019
<b>PROJECT IDENTIFICATI</b>	<u>ON</u>			
Task #: <u>440</u>	State: <u>Colorado</u>		Abbreviation:	None
Date: $3/12/2025$	County: <u>Moffat</u>		Filename:	440
User: HRI				
Agency or organization	name: DRMS			
HOURLY EQUIPMENT CO	OST			
Basic Machine: Cat D11T	- 11U			
Horsepower: 850				
Blade Type: Universal				
Attachment: NA				
Shift Basis: 1 per day				
Data Source: (CRG)				
	· · · · · · · · · · · · · · · · · · ·			
<u>Cost Breakdown</u> :	I.			
a a	· · · · ·	<u>Utilization %</u>		
Ownership Cost/Hour:	\$496.62	NA		
Operating Cost/Hour:	\$324.90	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Fotal unit Cost/Hour:       \$860.         Fotal Fleet Cost/Hour:       \$860.         MATERIAL QUANTITIES	.11 . <b>11</b>			
Fotal unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell footor       1.125	.11 . <b>11</b>			
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY	.11 . <b>11</b>			
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:	.11 . <b>11</b> 	  Exh. 7-item 23, Fig. B	-1	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:	.11 . <b>11</b> 	 Exh. 7-item 23, Fig. B	-1	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION	.11 . <b>11</b> 	  Exh. 7-item 23, Fig. B 	- <u>1</u>	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:	.11 .11 	  Exh. 7-item 23, Fig. B 	- <u>1</u>	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:	.11 .11 	 Exh. 7-item 23, Fig. B 	-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:       1	.11 .11 	 Exh. 7-item 23, Fig. B 	-1	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:       Materials consistency description	.11 .11 	 Exh. 7-item 23, Fig. B   ankment 0.9	-1	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:       Yaterials consistency description	.11 .11 	 Exh. 7-item 23, Fig. B   ankment 0.9	-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Waterials consistency description         Average site altitude:       -5 %	.11 .11 	 Exh. 7-item 23, Fig. B   ankment 0.9	-1	
Total unit Cost/Hour:       \$860         Total Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production:         Materials consistency description         Average site altitude:       -5 %         Average site altitude:       2,550	.11 .11 .11 	 Exh. 7-item 23, Fig. B  ankment 0.9	-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:	.11 .11 .11 	 Exh. 7-item 23, Fig. B  ankment 0.9	-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       1         Vaterials consistency description       -5 %         Average site altitude:       -7,500         Vaterial weight:       2,550         Weight description:       Earth         Iob Condition Correction Factor       -5 %	.11 .11 .11 	Exh. 7-item 23, Fig. B ankment 0.9	-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Jnadjusted hourly production:	.11 .11 .11 		-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:       Materials consistency description         Average push gradient:      5 %         Average site altitude:       7,500         Material weight:       _2,550         Weight description:       Earth         [ob Condition Correction Factor       Operator Skill:         Material consistency:	.11 .11 .11 		-1	
Total unit Cost/Hour:       \$860         Fotal Fleet Cost/Hour:       \$860         MATERIAL QUANTITIES         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436 LCY         Source of estimated volume:       Source of estimated swell factor:         HOURLY PRODUCTION       Average push distance:         Unadjusted hourly production:	.11         .11         .11		-1	

Job efficiency	. 0.830	(1 SHIFT/DAY)
Spoil pile	: 0.800	(FND-RF)
Push gradient	: 1.115	(CAT HB)
Altitude	: 1.000	(CAT HB)
Material Weight	.: 0.902	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	: 0.5409	
Adjusted unit production:	843.80 LCY/hr	
Adjusted fleet production:	843.8 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.019/LCY

Total job time:	<b>10.00</b> Hours
Total job cost:	\$8,599

### Task # 441

Page 1 of 2

Colowyo Coal Mine	Pern	nit Action: <u>N</u>	1T9	Permit/Job#:	C1981019
PROJECT IDENTIFIC	CATION				
Task #· 441	State:	Colorado		Abbreviation [.]	None
Date: $3/12/2025$	County:	Moffat		Filename	441
User: HR1	County.	Wollar		T nename.	
Agency or organiz	zation name: DR	MS			
HOURLY EQUIPMEN	<u>T COST</u>				
Basic Machine: Cat D	011T - 11U				
Horsepower: 850					
Blade Type: Unive	ersal				
Attachment: NA					
Shift Basis: 1 per	day				
Data Source: (CRG	i)				
Cost Breakdown:		I			
Ownership Cost/Hours		\$106.62	Utilization %		
Ownership Cost/Hour:		\$470.02 \$204.00	100		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
Fotal unit Cost/Hour:	\$860.11 <b>\$860.11</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTIT	\$860.11 <b>\$860.11</b> <u><b>FIES</b></u>				
Fotal unit Cost/Hour:          Fotal Initial Volume:       7.499	\$860.11 <b>\$860.11</b> FIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTIT Initial Volume:7,499 Swell factor:1.125	\$860.11 <b>\$860.11</b> <u><b>ГІЕЅ</b></u>				
Total unit Cost/Hour:          Total Fleet Cost/Hour:          MATERIAL QUANTIT          Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436	\$860.11 \$860.11 <u>FIES</u> LCY				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTIT         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTIT         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436         Source of estimated volume	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: <u>Exhibit 7-</u>	 23B, Table 1, 1	Exh. 7-item 23, Fig. B-	1	
Fotal unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b><u><b>ГIES</b></u> LCY :: <u>Exhibit 7-</u> actor: <u>Cat Handb</u></b>	 23B, Table 1, 1 pook	Exh. 7-item 23, Fig. B-	1	
Fotal unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b><u>CIES</u> <u>LCY</u> :: <u>Exhibit 7-</u> actor: <u>Cat Handb</u> <b>ON</b></b>	 23B, Table 1, 1 pook	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b><u>CIES</u> <u>LCY</u> :: <u>Exhibit 7-</u> actor: <u>Cat Handt</u> <u>ON</u> 200 feet</b>	 23B, Table 1, 1 pook	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b>CIES</b> LCY :: Exhibit 7-: actor: Cat Handb <u>ON</u> 200 feet 1560 0 LCY	 23B, Table 1, 1 pook	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTIT         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly producti	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: <u>Exhibit 7-</u> actor: <u>Cat Handt</u> <b>ON</b> on: <u>200 feet</u> 1,560.0 LCY	 23B, Table 1, 1 pook	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTIT         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: <u>Exhibit 7-</u> actor: <u>Cat Handt</u> <b>ON</b> on: <u>200 feet</u> 1,560.0 LCY iption: <u>Compac</u>		Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b><u><b>CIES</b></u> <u><b>LCY</b></u> :: <u>Exhibit 7-</u> actor: <u>Cat Handt</u> <u><b>ON</b></u> on: <u>200 feet</u> <u>1,560.0 LCY</u> iption: <u>Compac</u> 5 %</b>	23B, Table 1, 1 200k	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTIT         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly producti         Materials consistency descr         Average push gradient:         Average site altitude:	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: Exhibit 7 actor: Cat Handb <b>ON</b> actor: 1,560.0 LCY iption: Compac -5 % 7,500 feet	 23B, Table 1, I pook //hr cted fill or emb	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANTIT         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production         Materials consistency description         Average push gradient:         Average site altitude:         Material weight:	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: Exhibit 7 actor: Cat Handt <b>ON</b> on: 1,560.0 LCY iption: Compac -5 % 7,500 feet 2,550 lbs/LCY	 23B, Table 1, 1 pook //hr cted fill or emb	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b>TIES</b> LCY :: <u>Exhibit 7-</u> actor: <u>Cat Handt</u> <b>ON</b> <u>200 feet</u> 1,560.0 LCY iption: <u>Compac</u> -5 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed	 23B, Table 1, 1 pook //hr cted fill or emb	Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: Exhibit 7 actor: Cat Handb <b>ON</b> 200 feet on: 1,560.0 LCY iption: Compac -5 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed actor		Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:         7,499         Swell factor:         1.125         Loose volume:         8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly producti         Materials consistency descr         Average site altitude:         Material weight:         Weight description:         Lob Condition Correction F         Operator Sk	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: Exhibit 7- actor: Cat Handt <b>ON</b> actor: Cat Handt <b>ON</b> 200 feet 1,560.0 LCY iption: Compac -5 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed actor ill: 0.7		Exh. 7-item 23, Fig. B-	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:         7,499         Swell factor:         1.125         Loose volume:         8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly producti         Materials consistency descr         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction F         Operator Sk	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: Exhibit 7 actor: Cat Handt <b>ON</b> actor: Cat Handt <b>ON</b> <u>200 feet</u> 1,560.0 LCY iption: Compac <u>-5 %</u> 7,500 feet 2,550 lbs/LCY Earth - Dry packed <u>actor</u> iil: 0.7 cy: 0 ^C		Exh. 7-item 23, Fig. B- 	<u>1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:       7,499         Swell factor:       1.125         Loose volume:       8,436         Source of estimated volume         Source of estimated swell factor:         HOURLY PRODUCTION         Average push distance:         Unadjusted hourly production         Materials consistency description:         Average site altitude:         Weight description:         Iob Condition Correction F         Operator Sk         Material consisten	\$860.11 <b>\$860.11</b> <b>FIES</b> LCY :: Exhibit 7 actor: Cat Handt <b>ON</b> on: 1,560.0 LCY iption: Compac -5 % 7,500 feet 2,550 lbs/LCY Earth - Dry packed actor ill: 0.7 cy: 0.9 od: 1 2		Exh. 7-item 23, Fig. B- ankment 0.9 Source (AVG.) (CAT HB)) (S-BY-S)	1	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5409	
Adjusted unit production:	843.80 LCY/hr	
Adjusted fleet production:	843.8 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.019/LCY

Total job time:	<b>10.00</b> Hours
Total job cost:	\$8,599

Colowyo Coal M	ine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDEN	TIFICATIO	ON				
Task # 442		State:	Colorado		Abbreviation.	None
Date: $3/12/2$	025	County:	Moffat		Filename:	442
User: HR1		j-				
Agency or	organization	name: DF	RMS			
HOURLY EQUI	PMENT CO	DST				
Basic Machine:	Cat D11T -	11U				
Horsepower:	850					
Blade Type:	Universal					
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Toot Drool-d						
LOST Breakdown:				Litilization 0/		
Ownershin Cost/U	our		\$106 62	<u>Ounzation %</u> NA		
Operating Cost/U	our.		\$324.00	100		
Coperating Cost/II	our.		_{ወጋ24.90} \$0.00			
Rinner on Cost/H	our.		\$0.00	<u> </u>		
Operator Cost/II			\$28.50			
Cotal unit Cost/Hou Cotal Fleet Cost/Hou	r: <u>\$860.</u> ur: <b>\$860.</b>	11 <b>11</b>				
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU.	r: <u>\$860.</u> 1r: <b>\$860.</b> ANTITIES	11 11				
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume:	r: \$860. 117: <b>\$860.</b> <b>ANTITIES</b> 1,071	11 11				
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor:	r: \$860. ar: <b>\$860.</b> <b>ANTITIES</b> 1,071 1.125	11 11				
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	r: \$860. Ir: <b>\$860.</b> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY	11 11				
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume:	r: \$860. Ir: <b>\$860.</b> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume:	11 <b>11</b> Exhibit 7	-23B, Table	 1, Exh. 7-item 23, Fig.	. B-1	
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated	r: \$860. ar: <b>\$860.</b> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume: swell factor:	11 <b>11</b> <u>Exhibit 7</u> Cat Hand		1, Exh. 7-item 23, Fig	. B-1	
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated	r: \$860. ar: <b>\$860.</b> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume: swell factor:	11 <b>11</b> Exhibit 7 Cat Hand	-23B, Table book	 1, Exh. 7-item 23, Fig.	. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD	r: <u>\$860.</u> ar: <u>\$860.</u> <u><b>ANTITIES</b></u> <u>1,071</u> <u>1.125</u> <b>1,205</b> LCY volume: swell factor: <u>UCTION</u>	11 <b>11</b> 		 1, Exh. 7-item 23, Fig	<u>. B-1</u>	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD	r: <u>\$860.</u> ar: <u>\$860.</u> <u><b>ANTITIES</b></u> <u>1,071</u> <u>1.125</u> <u>1,205</u> LCY volume: swell factor: <u>UCTION</u> ce:	11 11 Exhibit 7- Cat Hand 200 feet	-23B, Table book	 1, Exh. 7-item 23, Fig.	<u>. B-1</u>	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD	r: <u>\$860.</u> ar: <u>\$860.</u> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction:	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC	-23B, Table book	 1, Exh. 7-item 23, Fig.	. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Gource of estimated Cource of estimated HOURLY PROD Average push distan Jnadjusted hourly p	r: \$860. 17: <b>\$860.</b> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : _Compa		 1, Exh. 7-item 23, Fig   mbankment 0.9	<u>. B-1</u>	
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p	r: <u>\$860.</u> ar: <u>\$860.</u> ANTITIES 1,071 1.125 1,205 LCY volume: swell factor: UCTION ce: roduction: y description	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC :Compa		 1, Exh. 7-item 23, Fig.    mbankment 0.9	<u>. B-1</u>	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU. Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence	r: <u>\$860.</u> ar: <u>\$860.</u> <u><b>ANTITIES</b></u> <u>1,071</u> <u>1.125</u> <b>1,205</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description ent:5 %	11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa		 1, Exh. 7-item 23, Fig.   mbankment 0.9	. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie	r: <u>\$860.</u> ar: <u>\$860.</u> <u><b>ANTITIES</b></u> <u>1,071</u> <u>1.125</u> <u>1,205</u> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description ent:5 % ::7,500	11 11 Exhibit 7- Cat Hand 200 feet 1,560.0 LC : _Compa feet		 1, Exh. 7-item 23, Fig.   mbankment 0.9	. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Gource of estimated Gource of estimated HOURLY PROD Average push distan Jnadjusted hourly p Materials consistence Average push gradie Average site altitude	r: <u>\$860.</u> ar: <u>\$860.</u> <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description ent:5 % ::7,500 2,550	11 11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC :Compa feet lbs/LCY	 -23B, Table book Y/hr cted fill or en	 1, Exh. 7-item 23, Fig.   mbankment 0.9	. B-1	
Cotal unit Cost/Hou Cotal Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description:	r: \$860. ar: \$860. <b>ANTITIES</b> 1,071 1.125 <b>1,205</b> LCY volume: swell factor: <b>UCTION</b> ce: roduction: y description ent:5 %  2,550  Earth	11 11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa feet lbs/LCY - Dry packed		 1, Exh. 7-item 23, Fig.   mbankment 0.9	. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Gource of estimated Gource of estimated Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: ob Condition Correct	r: <u>\$860.</u> ar: <u>\$860.</u> <u>ANTITIES</u> <u>1,071</u> <u>1.125</u> <u>1,205</u> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description ent: <u>-5 %</u> <u>2,550</u> <u>Earth</u> ction Factor	11 11 11 Exhibit 7- Cat Hand 200 feet 1,560.0 LC : _Compa feet lbs/LCY - Dry packed		 1, Exh. 7-item 23, Fig.  mbankment 0.9 Source	. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Cource of estimated Source of estimated Cource of estimated Mourney push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: Open	r: $$860.$ ar: $$860.$ <b>ANTITIES</b> 1,071 1.125 1,205 LCY volume: swell factor: UCTION ce: - roduction: - y description ent: -5 % : 7,500 2,550 Earth ction Factor rator Skill:	11 11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa feet lbs/LCY - Dry packed 0.			. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Gource of estimated Gource of estimated Average push distand Unadjusted hourly p Materials consistence Average push gradie Average push gradie Average site altitude Material weight: Veight description: Open Material consistence	r: <u>\$860.</u> ar: <u>\$860.</u> <u><b>ANTITIES</b></u> <u>1,071</u> <u>1,125</u> <u>1,205 LCY</u> volume: swell factor: <u>UCTION</u> ce: roduction: y description ent: <u>-5 %</u> <u>2,550</u> <u>Earth</u> ction Factor rator Skill: nsistency:	11 11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa feet lbs/LCY - Dry packed 0. 0.			. B-1	
Cotal unit Cost/Hour Cotal Fleet Cost/Hour Cotal Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Gource of estimated Materials consistence Average push distan Jnadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: <u>ob Condition Corree</u> Open Material co Dozin	r: <u>\$860.</u> ar: <u>\$860.</u> <u><b>ANTITIES</b></u> <u>1,071</u> <u>1,125</u> <u>1,205</u> LCY volume: swell factor: <u>UCTION</u> ce: roduction: y description ent: <u>-5 %</u> :: <u>7,500</u> <u>2,550</u> <u>Earth</u> <u>ction Factor</u> ator Skill: nsistency: g method:	11 11 11 11 Exhibit 7 Cat Hand 200 feet 1,560.0 LC : Compa feet lbs/LCY - Dry packed 0. 0. 1.			. B-1	

Task # 442

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5409	
Adjusted unit production: 84	43.80 LCY/hr	
Adjusted fleet production: 84	43.8 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.019/LCY

Total job time:	<b>1.43</b> Hours
Total job cost:	\$1,228

# **REVEGETATION WORK**

Task descri	ption:	Reseed Collom Access Roads	s (Exh. 13C Ta	able 13C-17)	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
PROJECT	<u>IDENTIFIC</u>	ATION			
Task #:	443	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	443
User:	HR1				
Ag	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

## **Application**

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	32.7 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$19,154.35			
Reseeding Job Cost:	\$3,061.70			
Total Job Cost:	\$22,216			
Job Hours:	16.00			

	Regrade ropson	or Kaw wa			
Colowyo Coal Mine	Perm	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 444	State:	Colorado		Abbreviation:	None
Date: 3/12/2025	County:	Moffat		Filename:	444
User: HR1				-	
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: <u>1-sh</u>	hank ripper		_		
Shift Basis: 1 pe	er day				
Data Source: (CR	(U)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$27.44	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
	****				
Total unit Cost/Hour:	\$887.55				
	***				
Total Fleet Cost/Hour:	\$887.55				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28.65	\$887.55 <u>ITIES</u> 57				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 28,65 Swell factor: 1125	\$887.55 ITIES 57				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,65 Swell factor: 1.125 Loose volume: 32,23	\$887.55 <u>ITIES</u> 57 5 39 L CY				
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,23	\$887.55 <u>ITIES</u> 57 5 39 LCY				
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,23         Source of estimated volume	\$887.55 ITIES 57 5 39 LCY ne:Division o	  f Reclamatio	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,23         Source of estimated volum         Source of estimated swell	\$887.55 <u>ITIES</u> 57 5 39 LCY ne: <u>Division o</u> factor: <u>Cat Handb</u>	 f Reclamation	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,23         Source of estimated volum         Source of estimated swell	\$887.55 ITIES 57 5 39 LCY ne: Division o factor: Cat Handb	– – – f Reclamation pook	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,65 Swell factor: 1.125 Loose volume: 32,23 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$887.55 ITIES 57 5 39 LCY ne: Division o factor: Cat Handb CION	– – – <u>f Reclamati</u> pook	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,65 Swell factor: 1.125 Loose volume: 32,25 Source of estimated volum Source of estimated swell HOURLY PRODUCT Augment and distances	\$887.55 ITIES 57 5 39 LCY ne: <u>Division o</u> factor: <u>Cat Handb</u> <u>CION</u>	– – – f Reclamationook	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,65 Swell factor: 1.125 Loose volume: 32,22 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$887.55 ITIES 57 5 39 LCY ne: <u>Division o</u> factor: <u>Cat Handb</u> CION <u>100 feet</u> tion 2 870 2 LCX	 f Reclamation pook	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,65 Swell factor: 1.125 Loose volume: 32,23 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$887.55 ITIES 57 5 39 LCY ne: Division o factor: Cat Handb CION 100 feet ction: 2,870.3 LCY	f Reclamation	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,23         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest	\$887.55 <u>ITIES</u> 57 5 39 LCY ne: <u>Division o</u> factor: <u>Cat Handb</u> <u>CION</u> <u>100 feet</u> ction: <u>2,870.3 LCY</u> cription: <u>Loose state</u>		 on, Mining & Safety 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,66 Swell factor: 1.125 Loose volume: 32,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient:	\$887.55 ITIES 57 5 39 LCY ne: <u>Division o</u> factor: <u>Cat Handb</u> CION CION 2,870.3 LCY cription: Loose st	 f Reclamation pook	 on, Mining & Safety 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,66 Swell factor: 1.125 Loose volume: 32,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dese Average push gradient: Average site altitude:	\$887.55 ITIES 57 5 39 LCY ne:	 f Reclamation book	 on, Mining & Safety 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,66 Swell factor: 1.125 Loose volume: 32,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dese Average push gradient: Average site altitude:	\$887.55 ITIES 57 5 39 LCY ne:	 f Reclamation pook 7/hr tockpile 1.2	 on, Mining & Safety 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,66 Swell factor: 1.125 Loose volume: 32,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average site altitude: Material weight:	\$887.55 ITIES 57 5 39 LCY ne:	 f Reclamation pook	 on, Mining & Safety 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,65 Swell factor: 1.125 Loose volume: 32,23 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average site altitude: Material weight: Weight description:	\$887.55 ITIES 57 5 39 LCY ne:	 f Reclamation pook //hr tockpile 1.2	 on, Mining & Safety 		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,25         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$887.55 ITIES 57 5 39 LCY ne: Division o factor: Cat Handb CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION CION	 f Reclamation pook //hr tockpile 1.2	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       28,65         Swell factor:       1.125         Loose volume:       32,22         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency deserver         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S	\$887.55         ITIES         57         57         59 LCY         ne:       Division o         factor:       Cat Handb         CION         cription:       100 feet         cription:       Loose st         5 %         7,600 feet         2,550 lbs/LCY         Earth - Dry packed         Factor         Skill:       0.9		on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,64 Swell factor: 1.125 Loose volume: 32,23 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistent	\$887.55         ITIES         57         57         59         39 LCY         ne:       Division of actors of actors         factor:       Cat Handbeet         CION         2,870.3 LCY         cription:       Loose state         5 %         7,600 feet         2,550 lbs/LCY         Earth - Dry packed         Factor         Skill:       0.9         ency:       1.2		<u>on, Mining &amp; Safety</u> 		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 28,66 Swell factor: 1.125 Loose volume: 32,22 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency dest Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency dest Material consistency dest Material weight:	\$887.55         ITIES         57         57         59         39 LCY         ne:       Division of actors         factor:       Cat Handbeet         CION         cription: $100$ feet         cription:       Loose state         5 %       7,600 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.9         ency:       1.2         thod:       1.0		on, Mining & Safety		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 0.903	(CAT HB)
Altitud	le: 0.930	(CAT HB)
Material Weig	ht: 0.902	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction		
Adjusted unit production:	1,948.93 LCY/hr	
Adjusted fleet production:	1948.93 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.455/LCY

Total job time:	<b>16.54</b> Hours
Total job cost:	\$14,682

# **REVEGETATION WORK**

Task descrip	otion:	Reseed Collom Raw Water I	Line		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Jo	b#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	ATION			
Task #:	445	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	445
User:	HR1				
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	36.37 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$21,304.09			
Reseeding Job Cost:	\$3,405.32			
Total Job Cost:	\$24,709			
Job Hours:	18.00			

# TRUCK/LOADER TEAM WORK

Task description:	<u>Load, H</u>	aul and Regrade	e Collom Pit Tops	soil-RN-08 Perm	<b>it Term</b> Permit/Job#: C1	981019
Site. <u>Colowyo Coai wi</u>		r ennit Acu	JII. <u>M119</u>	· · ·	rennit/j00#. <u>Cl</u>	1961019
PROJECT IDEN	TIFICATION					
Task #: 446	025	State: Colora	ado	Ab	breviation: No	ne
User: HR1	025		L		1 nename. <u>440</u>	)
Agency or	organization nan	ne: DRMS				
HOURLY EQUIE	<u>PMENT COST</u>			Shift bas	sis: <u>1 per day</u>	
T	ruck Loader Tea	m -Truck: KO	Equipment Descri MATSU 830F	ption		
1	TUCK LOAder Tea	-Loader: LET	TOURNEAU L23	50		
Suppo	ort Equipment -L	oad Area: Cat	D11T - 11U			
Road Ma	-Du Dintenance – Moto	or Grader: Cat	<u>DIII - IIU</u> Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.		
Cost Bussledown	Tault/Loc	dan Taam	Support	Tauinmant	Maintanan	aa Equinment
<u>Cost breakdown</u> :	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization-machine:	100	100	100	100	50	5(
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.8
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Group Subtotals:	4 Work:	\$3 288 72	Support:	\$2,580,33	Maint [.]	\$489.29
The last	φ	\$3,200.72	Support.	φ2,500.55	Want.	φ+09.29
Total work team cos	t/hour: <u>\$6,358.</u> ;	54				
MATERIAL QUA	ANTITIES					
Initial volume:	1.412.134	CCY	Swell	factor: 1.215		
Loose volume:	1,715,7	<b>'43</b> LCY				
Sou	rce of estimated	volume: <u>Divis</u>	sion of Reclamation	on, Mining & Safe	ety	
Source	of estimated swe	ll factor: Cat H	Handbook			
	Material Purcha	se Cost: <u>\$0.00</u>	)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	<u>(ht) Basis:</u>		Dounds/I CV			
Descri	ption: Top So	il	r Oullus/LC I			
Rated Pay	yload: 492,20	0	Pounds			
Payload Cap	acity: <u>307.63</u>		LCY			

Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target Truck Exchange Tin Truck Load Tin ck Maneuver and Dump Tin	<ul> <li>Material 6" a</li> <li>Conveyor or a</li> <li>Common own</li> <li>Constant oper</li> <li>Nominal targ</li> </ul>	dover utalitete 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes Minutes Minutes Minutes Minutes	h and up 0.00 l loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck: Adjusted Adjusted	0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude: for site altitude:	(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.8001.4801.200	- - - - - - Minute - Minute
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target <u>Truck Cycle Time:</u> Truck Exchange Tin Truck Load Tin	Material 6" a: Conveyor or Common own Constant oper Nominal targ	dover utanieter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T Minutes Minutes	th and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: 'ime per Truck: Adjusted Adjusted	0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.8001.480	- - - - - - Minute
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target <u>Truck Cycle Time:</u> Truck Exchange Tin	Material 6" a: Conveyor or Common own Constant oper Nominal targ	dover utanieter 0.0 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T  Minutes	th and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck:	0.030 0.000 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.800	
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target	Material 6" a Conveyor or Common own Constant oper Nominal targ	dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T	th and up 0.00 thoaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck:	0.030 0.000 -0.040 0.000 -0.050 0.675 1.450	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	-
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target	Material 6" a Conveyor or Common own Constant oper Nominal targ	dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load T	the Adjustment: ler Cycle Time: Time per Truck:	0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes	-
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target	Material 6" a Conveyor or Common own Constant oper Nominal targ	dover piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir Adjusted Load Net Load	the Adjustment: ler Cycle Time:	0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	-
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target	<ul> <li>Material 6" a</li> <li>Conveyor or</li> <li>Common own</li> <li>Constant oper</li> <li>Nominal targ</li> </ul>	dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tir	the and up 0.00 1 loaders -0.04 ne Adjustment:	0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation Dump Target	Material 6" a Conveyor or Common own Constant oper Nominal targ	dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	th and up 0.00 1 loaders -0.04	0.030 0.000 -0.040 -0.040 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership Operation	<ul> <li>Material 6" a</li> <li>Conveyor or</li> <li>Common own</li> <li>Constant oper</li> </ul>	dozer piled 10 ft. hig nership of trucks and ration -0.04	gh and up 0.00 1 loaders -0.04	0.030 0.000 -0.040 -0.040	(Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Wheel and Track Loader Cycle Time Factor Material Stockpile Truck Ownership	Material 6" at Conveyor or Common own	dozer piled 10 ft. hig nership of trucks and	gh and up 0.00 l loaders -0.04	0.030 0.000 -0.040	(Cat HB) (Cat HB) (Cat HB)	-
Wheel and Track Loader Cycle Time Factor Material Stockpile	: Material 6" a: Conveyor or	dozer piled 10 ft. hig	gh and up 0.00	0.030	(Cat HB) (Cat HB)	_
Wheel and Track Loader Cycle Time Factor Material	Material 6" a	nu over utameter utu	13	0.030	(Cat HB)	-
Wheel and Track Loader		nd over diameter 0.0	2		Source	
	s - Unadjusted Ba	sic Loader Cycle Ti	me (load, dump, r	naneuver): <u>0</u> Factor (min)	.725 minu	ites
	N	aneuver: NA		Dump: 0.100		
Lood: NA	.):	[		D		
Frack Loaders	- Material Descr	ipuon:				
Selected Valu	e within this Basi	c Kating: <u>NA</u>				
Machine Cycle Time	vs. Job Conditio	n Rating: <u>NA</u>				
Excavators and Front Sho	vels:					
Loading Tool Cycle Tim	e: Number	r of Loading Tool Pa	asses Required to	Fill Truck:	<u>    3                                </u>	asses
Net Correction:	0.830	0.813				
JUD EITICICIE,	0.050	0.030		,		
Altitude Adj:	1.000	0.980		5) R)		
A 1/1 - 1 - A 1'	Truck	Loader	Source			
Job Condition Correction	<u>18:</u>	S	ite Altitude (ft.): $\frac{1}{2}$	<u>/600</u> feet		
			··· • • • • • • • • • • • • • • • •	7600 6		
Adjusted Capacity:	58.300	LCY				-
Bucket Fill Factor:	1.100	Other - rock/dir	rt mixtures (100	-120%) 1.100		-
Rated Capacity:	53,000	LCY (heaped)	Bucl	ket Size Class: <u>N</u>	A	_
Loading Tool Capacity						
Fin	al Truck Volume	Based on Number o	of Loader Passes:	174.90	LCY	
	192.00	LCI				
Augusted volume.	172.50					
Adjusted Volume:	172.00	LCY				
Heaped Volume: Average Volume: Adjusted Volume:						

H		3: 11. 11		$\mathbf{C} = 1 \cdot (0/1)$	D . 11 D	<b>T</b> - ( -1 <b>D</b>	V. L 't	Traval	
Se	eg #	Haul	Distance	Grade (%)	Roll. Res	I otal Res	Velocity	Time	
		(Ft)			(%)	(%)	(fpm)	(min)	
1		5144.0	00	3.00	3.00	6.00	1266	4.238	
						Haul Time:	4.238	minutes	
Re	eturn Rou	ite:							
Se	eg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	(min)	
1		5144.0	00	-3.00	3.00	0.00	3503	1.672	
						Return Time:	1.672	minute	S
					Total Tru	ck Cycle Time:	9.390	minutes	S
Load	ling Tool	unit							
Loau	Produce	rtion	4 603 46	LCY/Hour		Adjusted for i	ob efficiency.	3 820 87	LCY/Hour
Truck Un	it Produc	ction _	1,005.10			rajusted for j	ob efficiency.		
		-	1,117.62	LCY/Hour		Adjusted for j	ob efficiency:	927.62	LCY/Hour
Optimal N	lo. of Tru	icks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste	d hourly true	k team production	on: 3,710	).50 LCY	Hour
				Adjusted sing	le truck/loade	er team production	on: 3,710	0.50 LCY	/Hour
				Adjusted multip	le truck/loade	er team production	on: 3,710	<b>).50</b> LCY	/Hour
<u>J(</u>	OB TIM	IE AN	D COST						
	Fleet s	ize:	1	Team(s)	]	Fotal job time:	462.4	0 Но	ours
	Unit c	ost:	\$1.714	/LCY	,	Total job cost:	\$2,940,	109	

# TRUCK/LOADER TEAM WORK

Task description:	Load, H	aul and Regrade	Collom Pit			
Site: Colowyo Coal M	line	Permit Actio	on: MT9		Permit/Job#: <u>C1</u>	1981019
PROJECT IDEN	TIFICATION	-				
Tool: #: 447		- Stata: Colorr	, do	4 h	browintion. No	<b>n</b> o
Date: $\frac{2}{6/20}$	)25	County: Moffa	t	A0	Filename: C0	19-447
User: HR1			•			
Agency or	organization nar	ne: DRMS				
HOURLY EQUI	PMENT COST	Г		Shift bas	is: 1 per day	
		_	Equipment Descri	ntion	<u></u>	
]	Truck Loader Tea	m -Truck: KO	MATSU 830E	ption		
		-Loader: LET	FOURNEAU L23	50		
Supp	ort Equipment -I	Load Area: Cat	$\frac{D11T - 11U}{D11T - 11U}$			
Road M	aintenance – Mot	or Grader: CA	<u>D111 - 110</u> Г 16М			
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.		
<u>Cost Breakdown</u> :	Truck/Los	ader Team	Support I	Equipment	Maintenan	ce Equipment
	Iruck	Loader	Load Area	Dump Area	Motor Grader	water fluck
%Utilization-machine:	100	100	100	100	50	50
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32
Number of Units:	4 Wester	¢2 299 72	l Summanti	¢2 590 22	l Mainti	¢ 490 20
Group Subtotals:	W OFK:	\$3,288.72	Support:	\$2,580.33	Maint:	\$489.29
Total work team cos	st/hour: <u>\$6,358.</u>	34				
MATEDIAL OU	ANTITIES					
MATERIAL QU	ANTITES					
Initial volume	: <u>6,608,464</u>	CCY	Swell	factor: <u>1.125</u>		
Loose volume		5 <u>22</u> LC Y				
So	urce of estimated	volume: Divis	sion of Reclamatio	on, Mining & Safe	ety	
Source	Material Purch	ase Cost: $\$0.00$	andbook )			
	To	otal Cost: \$0.00	)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (wei	<u>ght) Basis:</u>					
Material v	veight: 2,550	Dry peaked	Pounds/LCY			
Rated Pa	vload: 492.20	0	Pounds			
Payload Ca	pacity: 193.02		LCY			
-						

Struck volume.	153.00	LCY				
Heaped Volume:	192.00	LCY				
Average Volume:	172.50	LCY				
Adjusted Volume:	192.00	LCY				
Final	Truck Volume	Based on Number o	f Loader Passes:	174.90	LCY	
Loading Tool Capacity						
Rated Canacity	53 000	LCY (heaped)	Buck	cet Size Class: <u>N</u>	A	_
Bucket Fill Factor	1 100	Other - rock/di	rt mixtures (100	-120%) 1 100		-
Adjusted Capacity:	58.300	LCY	(100	12070) 1.100		-
5 I V <u> </u>						
Job Condition Corrections:	-	S	ite Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	)		
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.813				
Londing Tool Cycle Time.	N	of Looding Tool D	Daga Dagwingd to 1	Gill Truck:	2	200000
Loading Tool Cycle Thile:	Number	of Loading Tool Pa	isses Required to		þ	asses
Excavators and Front Snover	<u>s:</u>					
Machine Cycle Time vs	Lob Condition	D				
Selected Value w	vithin this Basic	Rating: <u>NA</u> c Rating: NA				
Selected Value w Track Loaders – 1	vithin this Basic Material Descri	Rating: <u>NA</u> c Rating: <u>NA</u> ption:				
Selected Value w Track Loaders – I Cycle Time Elements (min.):	vithin this Basic Material Descri	n Rating: <u>NA</u> c Rating: <u>NA</u> ption:				
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u>	within this Basic Material Descri	aneuver: NA		 Dump:0.100	)	
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	, sob Condition vithin this Basic Material Descri M M	aneuver: <u>NA</u>	me (load, dump, r	Dump: 0.100	, 725 mini	ites
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	within this Basic Material Descri  Unadjusted Bas	aneuver: <u>NA</u> n Rating: <u>NA</u> ption: <u>NA</u> aneuver: <u>NA</u>	me (load, dump, r	Dump: 0.100 naneuver): 0.100 Factor (min.)	minu Source	ıtes
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> Material:	Material Descri Material Descri Material Descri	aneuver: NA sic Loader Cycle Ti	me (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.) 0.030	.725 minu Source (Cat HB)	ites
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile:	Material Descri Material Descri Material Descri Material 6" ar	aneuver: NA sic Loader Cycle Ti nd over diameter 0.0 hor big 10 ft big	me (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000	725 minu Source (Cat HB) (Cat HB)	ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descri Material Descri Material Bas Material 6" ar Conveyor or c Common own	aneuver: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle Ti d over diameter 0.0 lozer piled 10 ft. hig tership of trucks and	me (load, dump, r 13 21 and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB)	ites 
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descri Material Descri Material Bas Material 6" ar Conveyor or c Common own Constant oper	aneuver: <u>NA</u> aneuver: <u>NA</u> sic Loader Cycle Tin <u>and over diameter 0.0</u> lozer piled 10 ft. hig mership of trucks and ation -0.04	me (load, dump, r )3 2h and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites  
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Descri Material 6" ar Conveyor or c Common own Constant oper Nominal targe	aneuver: NA aneuver: NA sic Loader Cycle Time ad over diameter 0.0 lozer piled 10 ft. hig hership of trucks and ation -0.04 et 0.00	me (load, dump, r 13 25h and up 0.00 1 loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites   
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Descri Material 6" ar Conveyor or c Common own Constant oper Nominal targe	aneuver: NA aneuver: NA sic Loader Cycle Ti ad over diameter 0.0 dozer piled 10 ft. hig hership of trucks and ation -0.04 et 0.00 Net Cycle Tir	me (load, dump, r 3 3 11 loaders -0.04 ne Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites 
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Oescri Material 6" ar Conveyor or c Common own Constant oper Nominal targe	aneuver: NA aneuver: NA sic Loader Cycle Ti ad over diameter 0.0 lozer piled 10 ft. hig hership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites   
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Descri Material 6" ar Conveyor or c Common own Constant oper Nominal targe	aneuver: NA ption:	me (load, dump, r 3 3 3 3 3 4 and up 0.00 1 loaders -0.04 1 1 ne Adjustment: ler Cycle Time: - ime per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites    
Selected Value w Track Loaders – 1 Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descri Material Descri Material Descri Material 6" ar Conveyor or c Common own Constant oper Nominal targe	aneuver: NA ption:	me (load, dump, r 3 3 3 and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450	725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       minutes     minutes       minutes     minutes	ites   
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u> <u>Dump Target:</u> <u>Truck Cycle Time:</u> Truck Exchange Time:	Material Descri Material Descri Unadjusted Ba Material 6" ar Conveyor or c Common own Constant oper Nominal targe	Nating:       NA         c Rating:       NA         ption:	me (load, dump, r 3 3 3 3 3 4 and up 0.00 1 loaders -0.04 1 1 ne Adjustment: 1 1 er Cycle Time: 2 1 ime per Truck: 2 Adjusted	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675 1.450 for site altitude:	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.800	ites    
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Material Descri Material Descri Unadjusted Baa Material 6" ar Conveyor or c Common own Constant oper Nominal targe	aneuver: NA ption: aneuver: NA sic Loader Cycle Ti nd over diameter 0.0 lozer piled 10 ft. hig nership of trucks and ation -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Time per Truck: Cime per Truck:	Dump:       0.100         naneuver):       0         Factor (min.)       0.030         0.000       -0.040         -0.040       -0.040         -0.050       0.675         1.450	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.800 1.480	ites 
Selected Value w Track Loaders – I Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: % Maneuver and Dump Time:	Material Descri Material Descri Material Descri Material 6" ar Conveyor or c Common own Constant oper Nominal targe	n Rating:       NA         c Rating:       NA         ption:	me (load, dump, r 3 2h and up 0.00 1 loaders -0.04 ne Adjustment: ler Cycle Time: Cime per Truck: Adjusted Adjusted Adjusted	Dump:       0.100         naneuver):       0         Factor (min.)       0.030         0.000       -0.040         -0.040       -0.040         -0.050       0.675         1.450	.725     minu       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes       0.800     1.480       1.200     1.200	Minute Minute

H	aul Route	e:							
Se	eg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		4244.0	00	3.80	3.00	6.80	1160	3.827	
Re	eturn Roi	ite:				Haul Time:	3.827	minute	2S
Se	eg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
1		4244.0	00	-3.80	3.00	-0.80	3503	1.249	
Lood	ling Tool				Total True	Return Time: ck Cycle Time:	<u> </u>	minu minu	ites
Truck Un	Produc	tion _	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.8	7 LCY/Hour
		-	1,226.57	LCY/Hour		Adjusted for j	ob efficiency:	1,018.0	5 LCY/Hour
Optimal N	lo. of Tru	icks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste	d hourly true	k team production	on:4,072	2.20 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: $3,820$	<u>).87</u> LO	CY/Hour
			1	Adjusted multip	le truck/loade	er team production	on: <u>3,82</u>	<b>).8</b> 7 LC	Y/Hour
<u>J(</u>	OB TIM	IE AN	D COST						
	Fleet si	ize:	1	Team(s)	1	Fotal job time:	1,945.	77	Hours
	Unit co	ost:	\$1.664	/LCY	r	Total job cost:	\$12,371	,853	

# **REVEGETATION WORK**

Task description:		Reseed Collom Pit and Tem	oorary Spoil Pil	e	
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	o#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	ATION			
Task #:	448	State: Colorado		Abbreviation:	None
Date:	2/6/2025	County: Moffat		Filename:	448
User:	HR1				
Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	989.4 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$579,550.94			
Reseeding Job Cost:	\$92,637.52			
Total Job Cost:	\$672,188			
Job Hours:	495.00			

# **REVEGETATION WORK**

Task descri	ption:	Reseed Collom TS Pile Foot	orints 25B, 26A	A, 26B, 36A	
ite: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #:	450	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	450
<b>T T .</b>	HP 1				

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	81.4 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$47,680.86			
Reseeding Job Cost:	\$7,621.48			
Total Job Cost:	\$55,302		_	
Job Hours:	40.50		_	

# **REVEGETATION WORK**

Task descrip	otion:	Reseed Collom Facility Area	l		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	: <u>C1981019</u>
PROJECT	IDENTIFIC	ATION			
Task #:	453	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	453
User:	HR1				
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

# Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	<b>40.00</b>
Total Mulch Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. Estimated Fail	of Acres: <u>302.5</u>	Cost /Acre: \$585.76
*Selected Replanting Wo	ork Items: SEEDING	
Initial Job Cost: \$177	,192.40	
Reseeding Job Cost: \$28,3	323.08	
Total Job Cost: \$205	,515	
Job Hours: 251.0	00	

## **REVEGETATION WORK**

Task descri	ption:	Collom-Weed control 10% o	f 1133.4 ac. 3X		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	: <u>C1981019</u>
<u>PROJECT</u>	<u>IDENTIFIC</u>	ATION			
Task #:	459	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	459
User:	HR1				
Ag	ency or organi	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

## Application

Description	Cost /Acre
	\$
Total Fartilizer Application Cost/Ages	
I otal Fertilizer Application Cost/Acre	\$0.00

## TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

## Application

Description	Cost /Acre
	\$
## Total Seed Application Cost/Acre\$0.00

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units /	Unit	Cost / Unit	Cost /Acre
Description	Acre		00507 Cint	
Herbicide - 2,4D @ 1.0 pt/ac	0.50	ACRE	\$4.13	\$2.06
Herbicide - Escort @ 1.0 pt/ac	0.25	ACRE	\$76.96	\$19.24
Total Mulch Materials Cost/Acre				\$21.30

## Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$83.26

# **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

No. of Acres:	340	Cost /Acre:	\$104.56
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$35,550.40
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$35,550
Job Hours:	120.00

## BOREHOLE SEALING WORK

r	Task description:	Plug and Se	al All Wells for	Collom (MR203)		
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/.	Job#: <u>C1981019</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>N</u>				
Task #: Date: User:	461 3/12/2025 HR1	State: County:	Colorado Moffat		Abbreviation: Filename:	None 461
	Agency or organiza	tion name:	DRMS			

## **UNIT COSTS**

Borehole	Sealing/Item Method						
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug MC-04-01 Well	PVC plug - 4 in. diameter borehole	4"	65'	1.00	EA	\$36.06	\$36.06
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	65'	13.00	bag	\$22.00	\$286.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	1.00	LF	\$3.23	\$3.23
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	2.00	EA	\$450.94	\$901.88
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Plug MC-04-02 Well	PVC plug - 4 in. diameter borehole	4"	83'	1.00	EA	\$36.06	\$36.06
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	83'	2.00	bag	\$22.00	\$44.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	1.00	LF	\$3.23	\$3.23
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	ATLAS COPCO ROC D7-11,4.0 in.	NA	NA	2.00	EA	\$450.94	\$901.88
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Plug MLC-04-01 Well	PVC plug - 4 in. diameter borehole	4"	74'	1.00	EA	\$36.06	\$36.06
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	4"	74'	1.00	bag	\$22.00	\$22.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear	4"	NA	1.00	LF	\$3.23	\$3.23

	East						
- Borehole Marker	Borehole location/identification marker (EA, material	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	Cost only) ATLAS COPCO ROC D7-11 4 0 in	NA	NA	2.00	EA	\$450.94	\$901.88
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Plug MJ-95-01 Well	PVC plug - 6 in. diameter borehole	6"	48'	1.00	EA	\$65.19	\$65.19
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	6"	48'	2.00	bag	\$22.00	\$44.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	6"	NA	1.00	LF	\$3.23	\$3.23
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	ATLAS COPCO ROC L8(25)	NA	NA	2.00	EA	\$616.70	\$1,233.40
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Plug MJ-95-03 Well	PVC plug - 6 in. diameter borehole	6"	30'	1.00	EA	\$65.19	\$65.19
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	6"	30'	1.00	bag	\$22.00	\$22.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	6"	NA	1.00	LF	\$3.23	\$3.23
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00
- Drill Rig Time	ATLAS COPCO ROC L8(25)	NA	NA	2.00	EA	\$616.70	\$1,233.40
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	2.00	EA	\$101.92	\$203.84
Plug Trout Creek Well	PVC plug - 6 in. diameter borehole	6"	1200'	1.00	EA	\$65.19	\$65.19
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	6"	1200'	52.00	bag	\$22.00	\$1,144.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	6"	NA	1.00	LF	\$3.23	\$3.23
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	12.00	EA	\$101.92	\$1,223.04
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00

- Drill Rig Time	ATLAS COPCO ROC L8(25)	NA	NA	12.00	EA	\$616.70	\$7,400.40
Plug Potable Water Well	PVC plug - 8 in. diameter borehole	8.75"	1150'	1.00	EA	\$89.31	\$89.31
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	8.75"	1150'	107.00	bag	\$22.00	\$2,354.00
- Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	8.75"	NA	1.00	LF	\$3.23	\$3.23
- Water Truck Time	Water Tanker, 5,000 Gal.	NA	NA	12.00	EA	\$101.92	\$1,223.04
- Drill Rig Time	Truck Mounted - 3.0 in 1,700 ft. capy.	NA	NA	12.00	EA	\$82.96	\$995.52
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$46.00	\$46.00

 Job Hours:
 24.00

Total Cost: \$21,687.00

## BOREHOLE SEALING WORK

,	Task description:	Plug and Se	al 16 Geotechni	ical Boreholes		
Site:	Colowyo Coal Mine		Permit Action:	MT9	Permit/	Job#: <u>C1981019</u>
<u>PROJE</u>	CT IDENTIFICATIO	N				
Task #:	466	State:	Colorado		Abbreviation:	None
Date:	<u>3/12/2025</u>	County:	Moffat		Filename:	466
User:	Agency or organiza	tion name:	DRMS			

## **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Fill Holes with Cement	Portland cement grout ( Bag, material cost	4"	1120'	49.00	bag	\$22.00	\$1,078.00
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	N/A	N/A	16.00	EA	\$46.00	\$736.00
- Truck and Labor	Flatbed Truck, 6x4, 45K GVW	N/A	N/A	32.00	EA	\$81.77	\$2,616.64

Job Hours: 24.00

Total Cost: \$4,431.00

# **REVEGETATION WORK**

]	Fask descrip	otion:	Reseed Geotechnical Hole A	ccess Corrido	rs	
Site:	Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#: C1981	019
<u>P</u>	ROJECT	IDENTIFIC	CATION			
	Task #:	468	State: Colorado		Abbreviation: None	
	Date: User:	3/28/2025 HR1	County: Mottat		Filename: 468	
	Age	ency or organi	zation name: DRMS			

## **FERTILIZING**

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$6.34
Bluebunch Wheatgrass - Secar	4.00	12.86	\$42.05
Bitterbrush, Antelope	6.00	1.85	\$339.08
Mountain Brome - Bromar	2.00	3.21	\$12.03
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Rocky Mountain Fescue	2.00	32.14	\$21.57
Slender Wheatgrass - Pryor	1.50	5.48	\$9.27
Milk Vetch, Cicer - Lutana	0.60	2.00	\$5.87
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37

Western Wheatgrass - Arriba	3.00	7.58	\$27.10
Rabbitbrush, Rubber	0.60	8.94	\$50.04
Needlegrass, Green - Lodorm	0.40	1.66	\$3.46
Sagebrush, Louisiana or Prairie	1.00	100.79	\$184.91
Sagebrush, Mountain or Big	4.00	211.20	\$330.80
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Silver	1.50	29.13	\$102.19
Saltbush, Four Wing	3.20	4.41	\$63.59
Snowberry, Mountain	1.50	2.58	\$88.59
Sumac, Skunkbrush	1.00	0.47	\$45.13
Penstemon, Palmer	0.20	4.42	\$15.59
Penstemon, Rocky Mountain	1.00	15.67	\$61.41
Yarrow, Western	0.40	24.32	\$19.30
Totals Seed Mix	38.30	493.19	\$1,481.54

#### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

Description		Cost /Acre
		\$
Г	Fotal Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ck Cost / Acre	\$0.00

## JOB TIME AND COST

No. of Acres:	1.2	Cost /Acre:	\$1,754.10
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,754.10
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$2,104.92** 

Reseeding Job Cost:	\$420.98
Total Job Cost:	\$2,526
Job Hours:	2.40

## BOREHOLE SEALING WORK

-	Task description:	Plug and Sea	l 80 Collom In	-Pit Drill Holes	(MR216)	
Site:	Colowyo Coal Mine	P	ermit Action:	MT9	Permit/J	ob#: <u>C1981019</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>N</u>				
Task #: Date: User:	470 3/12/2025 HR1	State: _ County: _	Colorado Moffat		Abbreviation: Filename:	None 470
	Agency or organiza	tion name: D	RMS			

## **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Bottom Plug	PVC plug - 6 in. diameter borehole	5.625"	91200	80.00	EA	\$65.19	\$5,215.29
- Fill Holes with Cement	Portland cement grout ( Bag, material cost only94 lb. bag)	5.625"	91200	3,497.00	bag	\$22.00	\$76,934.00
- Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	80.00	EA	\$46.00	\$3,680.00
- Drill Rig Time	Truck Mounted - 3.0 in 1,700 ft. capy.	NA	NA	949.00	EA	\$82.96	\$78,729.04
- Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	949.00	EA	\$34.10	\$32,360.90

Job Hours: 949.00

Total Cost: \$196,919.00

Task description:					
Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIF	<b>ICATION</b>				
Task #· 471	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename:	471
User: HR1	000000000				.,
Agency or orga	nization name: DF	RMS			
HOURLY EOUIPME	ENT COST				
Basic Machine: Cat	D11T 11U				
Horsepower: 850	)				
Blade Type: Un	iversal				
Attachment: 1-s	hank rinner				
Shift Basis: 1 p	er dav				
Data Source: (CI	RG)				
<u>(01</u>	- /				
Cost Breakdown:		I	<b>TT</b> . <b>111</b> . <b>1</b>		
		¢ 10 c c <b>0</b>	Utilization %		
Ownership Cost/Hour:		\$496.62	NA 100		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$27.44	NA 100		
Dimmon on Cost/Horn					
Ripper op. Cost/Hour:		\$10.05	100		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$904.20 <b>\$904.20</b>	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$904.20 \$904.20 TITIES	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5	\$904.20 \$904.20 TITIES 52	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00	\$904.20 \$904.20 \$904.20 TITIES 52 0	\$38.59	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5	\$904.20 \$904.20 \$904.20 \$7TTIES 52 0 \$2 LCY	\$10.05 \$38.59	NA		
Ripper op. Cost/Hour:         Operator Cost/Hour:         Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       13,5         Swell factor:       1.00         Loose volume:       13,5         Source of estimated volu	\$904.20 <b>\$904.20</b> <b>TITIES</b> 52 0 <b>52</b> LCY me: Division	\$38.59	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu Source of estimated swel	\$904.20 \$904.20 \$904.20 TTIES 52 0 52 LCY me: Division 1 factor: Cat Hand	\$10.05 \$38.59	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated swel HOURLY PRODUC	\$904.20 <b>\$904.20</b> <b>TTIES</b> 52 0 52 LCY me: Division 1 factor: Cat Hand <b>FION</b>	\$38.59	ion, Mining & Safety		
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Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ	\$904.20 \$904.20 \$904.20 TTIES 52 0 52 LCY me: Division 1 factor: Cat Hand <u>FION</u> ction: 2,870.3 LC	site of Reclamati book	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ	\$904.20 \$904.20 \$904.20 TTIES 52 0 52 LCY me: Division 1 factor: Cat Hand FION Cat Hand Cat Han	site.os \$38.59 	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency dest	\$904.20         \$904.20         \$904.20         TTIES         52         0         52 LCY         me:       Division         1 factor:       Cat Hand         FION         ction:       2,870.3 LC         scription:       Consol	site of stocky s	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude:	\$904.20 \$904.20 \$904.20 TTIES 52 0 52 LCY me: Division 1 factor: Cat Hand FION ction: 100 feet 2,870.3 LC scription: Consol 0 % 7,600 feet	site of stock p	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight:	\$904.20         \$904.20         TTIES         52         0         52 LCY         me:       Division         1 factor:       Cat Hand <b>FION</b> ction:       2,870.3 LC         scription:       Consol         0 %         7,600 feet         1,600 lbs/LCY	\$10.05 \$38.59 	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$904.20         \$904.20         \$904.20         YITIES         52         0         52 LCY         me:       Division         1 factor:       Cat Hand         Ifactor:       Cat Hand         Ifon       100 feet         ction:       2,870.3 LC         scription:       Consol         0 %       7,600 feet         1,600 lbs/LCY       Top Soil	\$10.05 \$38.59 	ion, Mining & Safety		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$904.20 \$904.20 \$904.20 TTIES 52 0 52 LCY me: Division 1 factor: Cat Hand FION ction: 100 feet 2,870.3 LC scription: Consol 0 % 7,600 feet 1,600 lbs/LCY Top Soil Factor	\$10.05 \$38.59 	ion, Mining & Safety		
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Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist	\$904.20         \$904.20         \$904.20         TTIES         52         0         52 LCY         me:       Division of         1 factor:       Cat Hand <b>FION</b> ction:       2,870.3 LC         scription:       Consol         0 %         7,600 feet         1,600 lbs/LCY         Top Soil         Factor         Skill:       0.         ency:       1.	\$10.05 \$38.59 	ion, Mining & Safety	<u></u>	
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,5 Swell factor: 1.00 Loose volume: 13,5 Source of estimated volu: Source of estimated volu: Source of estimated volu: Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	\$904.20         \$904.20         \$904.20         YTTIES         52         0         52 LCY         me:       Division of         1 factor:       Cat Hand         FION         ction:       2,870.3 LC         scription:       Consol         0 %       7,600 feet         1,600 lbs/LCY       Top Soil         Factor       Skill:       0.         ency:       1.       1.	\$10.05 \$38.59 	ion, Mining & Safety ion, Mining & Safety ion, Mining & Safety ion, Mining & Safety ion, Mining & Source ion, Mining & Safety ion, Mini		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 0.930	(CAT HB)
Material Weig	ht: 1.438	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.9990	
Adjusted unit production:	2,867.43 LCY/hr	
Adjusted fleet production:	2867.43 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.315/LCY

Total job time:	<b>4.73</b> Hours
Total job cost:	\$4,273

Task description.					
Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 472	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename:	472
User: HR1				· · · · · ·	-
Agency or organ	ization name: DR	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: 1-sh	ank ripper				
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	.G)				
Cost Breakdown:					
<u> </u>			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$27.44	NA		
Ripper op. Cost/Hour:		\$16.65	100		
Operator Cost/Hour:		\$38.59	NA		
	¢004 20				
Total unit Cost/Hour:	\$904.20				
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$904.20 <b>\$904.20</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$904.20 <b>\$904.20</b>				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:5,969	\$904.20 \$904.20 ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5,969 Swell factor: 1.000	\$904.20 <b>\$904.20</b> ITIES )				
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Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 0.930	(CAT HB)
Material Weig	ht: 1.438	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.9990	
Adjusted unit production:	2,867.43 LCY/hr	
Adjusted fleet production:	2867.43 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.315/LCY

Total job time:	<b>2.08</b> Hours
Total job cost:	\$1,882

# **REVEGETATION WORK**

Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
ICATION			
State: Colorado		Abbreviation:	None
County: Moffat		Filename:	473
	ICATION       State:     Colorado       County:     Moffat	ICATION     State:     Colorado       County:     Moffat	ICATION       Introduction       Introduction         State:       Colorado       Abbreviation:         County:       Moffat       Filename:

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

## Application

Description	Cost /Acre
	\$
Total Fautilizar Application Cost/Acro	<b>*</b> • ••
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$6.34
Bluebunch Wheatgrass - Secar	4.00	12.86	\$42.05
Bitterbrush, Antelope	6.00	1.85	\$339.08
Mountain Brome - Bromar	2.00	3.21	\$12.03
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Rocky Mountain Fescue	2.00	32.14	\$21.57
Slender Wheatgrass - Pryor	1.50	5.48	\$9.27
Milk Vetch, Cicer - Lutana	0.60	2.00	\$5.87
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37

Western Wheatgrass - Arriba	3.00	7.58	\$27.10
Rabbitbrush, Rubber	0.60	8.94	\$50.04
Needlegrass, Green - Lodorm	0.40	1.66	\$3.46
Sagebrush, Louisiana or Prairie	1.00	100.79	\$184.91
Sagebrush, Mountain or Big	4.00	211.20	\$330.80
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Silver	1.50	29.13	\$102.19
Saltbush, Four Wing	3.20	4.41	\$63.59
Snowberry, Mountain	1.50	2.58	\$88.59
Sumac, Skunkbrush	1.00	0.47	\$45.13
Penstemon, Palmer	0.20	4.42	\$15.59
Penstemon, Rocky Mountain	1.00	15.67	\$61.41
Yarrow, Western	0.40	24.32	\$19.30
Totals Seed Mix	38.30	493.19	\$1,481.54

#### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

Description		Cost /Acre
		\$
Г	Fotal Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

## JOB TIME AND COST

No. of Acres:	5.6	Cost /Acre:	\$1,754.10
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,754.10
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$9,822.96** 

Reseeding Job Cost:	\$1,964.59
Total Job Cost:	\$11,788
Job Hours:	11.20

Task description:	Regrade Topsoil		rower Line		
Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<b>ICATION</b>				
Task #∙ 474	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	State:	Moffat		Filename	474
User: HR1	County.	Monat		i nename.	
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	<u>NI COST</u>				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: <u>Uni</u>	versal				
Attachment: <u>1-sh</u>	nank ripper				
Shift Basis: <u>1 pe</u>	er day				
Data Source: (CR	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$27.44	NA		
Ripper op. Cost/Hour:		\$16.65	100		
		\$38.50	NIA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUANT	\$904.20 \$904.20	¢30.37			
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Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 25,00 Swell factor: 1.000 Loose volume: 25,00 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$904.20 \$904.20 TTIES 00 0 00 LCY ne:	<pre>#38.39</pre>	on, Mining & Safety		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 25,00 Swell factor: 1.000 Loose volume: 25,00 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	\$904.20         \$904.20         ITIES         00         00         00         00         00         00         00         00         00         00         00         00         00         00         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         11         11	\$38.39			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 25,00 Swell factor: 1.000 Loose volume: 25,00 Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency Material	\$904.20         \$904.20         ITIES         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         100         100         100         100         100         100         100         100         1.1         0.2         1.1         1.1	#38.39     [     ]     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]     [     ]	on, Mining & Safety		

Task # 474

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 0.930	(CAT HB)
Material Weig	ht: 0.902	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.7520	
Adjusted unit production:	2,158.47 LCY/hr	
Adjusted fleet production:	2158.47 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.419/LCY

Total job time:	11.58 Hours
Total job cost:	\$10,473

# **REVEGETATION WORK**

Task de	escription:	Reseed 14.7 acres for Collom	Not Power Line		
Site: Colowyo Coal Mine		Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJE	CCT IDENTIFIC	ATION			
Tasl	k #: 475	State: Colorado		Abbreviation:	None
D	ate: 3/28/2025	County: Moffat		Filename:	475
U	ser: HR1				
	Agency or organiz	zation name: DRMS			

## **FERTILIZING**

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$6.34
Bluebunch Wheatgrass - Secar	4.00	12.86	\$42.05
Bitterbrush, Antelope	6.00	1.85	\$339.08
Mountain Brome - Bromar	2.00	3.21	\$12.03
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Rocky Mountain Fescue	2.00	32.14	\$21.57
Slender Wheatgrass - Pryor	1.50	5.48	\$9.27
Milk Vetch, Cicer - Lutana	0.60	2.00	\$5.87
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37

Western Wheatgrass - Arriba	3.00	7.58	\$27.10
Rabbitbrush, Rubber	0.60	8.94	\$50.04
Needlegrass, Green - Lodorm	0.40	1.66	\$3.46
Sagebrush, Louisiana or Prairie	1.00	100.79	\$184.91
Sagebrush, Mountain or Big	4.00	211.20	\$330.80
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Silver	1.50	29.13	\$102.19
Saltbush, Four Wing	3.20	4.41	\$63.59
Snowberry, Mountain	1.50	2.58	\$88.59
Sumac, Skunkbrush	1.00	0.47	\$45.13
Penstemon, Palmer	0.20	4.42	\$15.59
Penstemon, Rocky Mountain	1.00	15.67	\$61.41
Yarrow, Western	0.40	24.32	\$19.30
Totals Seed Mix	38.30	493.19	\$1,481.54

#### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

2 esemption		Cost /Acre
		\$
,	Total Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ck Cost / Acre	\$0.00

## JOB TIME AND COST

No. of Acres:	14.7	Cost /Acre:	\$1,754.10
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,754.10
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$25,785.27

Reseeding Job Cost:	\$5,157.05
Total Job Cost:	\$30,942
Job Hours:	7.30

: Colowyo Coal Mine	Permit A	Action: _	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 476	State: Co	olorado		Abbreviation:	None
Date: $3/12/2025$	County: M	offat		Filename:	476
User: HR1	2 2 2 3				
Agency or organ	ization name: DRMS				
HOURLY EQUIPME	<u>NT COST</u>				
Basic Machine: Cat	D8T - 8SU				
Horsepower: 310					
Blade Type: Sen	ni-Universal				
Attachment: <u>NA</u>			_		
Shift Basis: 1 pe	er day		_		
Data Source: (CR	(G)		_		
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:	\$1	173.32	NA		
Operating Cost/Hour:	S	\$76.80	70		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:	S	\$38.59	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$288.70 \$288.70 ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>5,92:</u> Swell factor: <u>1.000</u>	\$288.70 <b>\$288.70</b> ITIES 3 )				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923	\$288.70 \$288.70 ITIES 3 0 3 LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5,923 Swell factor: 1.000 Loose volume: 5,923 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$288.70 \$288.70 ITIES 3 3 3 3 4 50 feet 50 feet	3, Table 1 k	 I, Exh. 7-item 23, Fig. B- 	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923         Source of estimated volur       Source of estimated swell         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       1000	\$288.70 \$288.70 ITIES 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3, Table 1 k	 I, Exh. 7-item 23, Fig. B- 	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des	\$288.70         \$288.70         ITIES         3         0         3 LCY         ne:       Exhibit 7-23E         factor:       Cat Handbool         YION         etion:       50 feet         1,400.0 LCY/hr         cription:       Compacted	3, Table 1 k	 I, Exh. 7-item 23, Fig. B-   mbankment 0.9	<u>1</u>	
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 5,92: Swell factor: 1.000 Loose volume: 5,92: Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$288.70         \$288.70         ITIES         3         0         3 LCY         ne:       Exhibit 7-23E         factor:       Cat Handbool         YION         *tion:       50 feet         1,400.0 LCY/hr         cription:       Compacted         0 %         7,500 feet	3, Table 1 k	 I, Exh. 7-item 23, Fig. B-   nbankment 0.9	<u>1</u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,92:         Swell factor:       1.000         Loose volume:       5,92:         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:	\$288.70         \$288.70         ITIES         3         3         0         3 LCY         ne:       Exhibit 7-23B         factor:       Cat Handbool         YION         Stop         20         50 feet         ction:       1,400.0 LCY/hr         cription:       Compacted         0 %       7,500 feet         2,650 lbs/LCY	3, Table 1 k	 I, Exh. 7-item 23, Fig. B-   nbankment 0.9	1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923         Source of estimated volum       5,923         Average push distance:       1000         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:	\$288.70         \$288.70         ITIES         3         0         3 LCY         ne:       Exhibit 7-23E         factor:       Cat Handbool         YION         Cat Handbool         YION         cription:       50 feet         1,400.0 LCY/hr         cription:       Compacted         0 %       7,500 feet         2,650 lbs/LCY       Decomposed rock - 25	3, Table 1 k fill or er	 I, Exh. 7-item 23, Fig. B-   nbankment 0.9 75% Earth	I	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923         Source of estimated volum       5,923         Source of estimated volum       5,923         Source of estimated volum       5,924         MATERIAL QUANT       1.000         Loose volume:       5,923         Source of estimated volum       5,923         Source of estimated volum       Source of estimated volum         Source of estimated swell       HOURLY PRODUCT         Average push distance:       Unadjusted hourly product         Materials consistency des       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction	\$288.70 \$288.70 ITIES 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	3, Table 1 k fill or er		1	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923         Source of estimated volum       5,923         Source of estimated volum       5,923         Source of estimated volum       5,924         Source of estimated volum       5,925         Source of estimated volum       Source         Material sconsistency       Ges         Average push distance:       Unadjusted hourly product         Materials consistency des       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S	\$288.70         \$288.70         ITIES         3         3         0         3 LCY         ne:       Exhibit 7-23E         factor:       Cat Handbool         TON         Stop         20         50 feet         1,400.0 LCY/hr         cription:       Compacted         0 %         7,500 feet         2,650 lbs/LCY         Decomposed rock - 25         Factor         Skill:       0.750	3, Table 1 k fill or er	I, Exh. 7-item 23, Fig. B-         I, Exh. 7-item 24, Fig. B-         I,	<u></u>	
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       5,923         Swell factor:       1.000         Loose volume:       5,923         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consistence	\$288.70         \$288.70         ITIES         3         0         3 LCY         ne:       Exhibit 7-23E         factor:       Cat Handbool         YON         Stop         YON         Stop         Stop         Stop         Stop         Bactor:         Cat Handbool         Yon         Stop         Stop         Stop         Stop         Stop         Stop         Still:         0.750         Schill:         0.750         Shill:         0.750         Shill:         0.750         Shill:         0.750         Shill:         0.750         Shill:         0.750         Shill:         0.900         1.1000	3, Table 1 k fill or er	I., Exh. 7-item 23, Fig. B-         I.,	<u></u>	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4668	
Adjusted unit production: 6	553.52 LCY/hr	
Adjusted fleet production:	53.52 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.442/LCY

Total job time:	<b>12.95</b> Hours
Total job cost:	\$3,738

Colowyo Coal Mine	Peri	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 477	State	Colorado		Abbreviation.	None
Date: $3/12/2025$	County:	Moffat		Filename:	477
User: HR1	County.	Monu			177
Agency or organ	nization name: DR	RMS			
HOUKLY EQUIPME	<u>NI COSI</u>				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850					
Blade Type: Uni	versal				
Attachment: NA	1				
Shift Basis: 1 pe	er day				
Data Source: (CR	(U)				
Cost Breakdown:			1		
			Utilization %		
Ownership Cost/Hour:		\$496.62	NA		
Operating Cost/Hour:		\$324.90	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
MATERIAL QUANT	<u>ITIES</u>				
MATERIAL QUANT	<u>ITIES</u> 3				
MATERIAL QUANTInitial Volume:4,998Swell factor:1.000Loose volume:4,998	ITIES 3 3 3 8 LCY				
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum	ITIES 3 3 3 8 LCY ne: Exhibit 7.		1 Exh 7-item 23 Fig	3-1	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell	ITIES 3 3 3 5 8 CY ne: Exhibit 7 factor: Cat Hand		1, Exh. 7-item 23, Fig. ]	B-1	
MATERIAL QUANT:         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell	ITIES 3 3 3 4 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1, Exh. 7-item 23, Fig. 1	B-1	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	ITIES 3 3 3 3 4 5 5 6 5 7 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7	 	1, Exh. 7-item 23, Fig. ]	8-1	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volun       4,998         Source of estimated swell       4,998         HOURLY PRODUCT       4,998	ITIES B B C B LCY ne: Exhibit 7- factor: Cat Hand CION COO for t		1, Exh. 7-item 23, Fig. ] 	<u>8-1</u>	
MATERIAL QUANT:         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:	ITIES 3 3 3 3 BLCY ne: Exhibit 7 factor: Cat Hand CION 200 feet tion: 1560 0 LCY		1, Exh. 7-item 23, Fig. ] 	<u>B-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product	ITIES         3         3         0         3         1         8         1         8         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <tr td=""></tr>		1, Exh. 7-item 23, Fig. ] 	3-1	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest	ITIES B B CY BLCY factor: Exhibit 7- factor: Cat Hand CION CION Ction: 200 feet ction: 1,560.0 LC Cription: Compa		1, Exh. 7-item 23, Fig. 1   mbankment 0.9	B-1	
MATERIAL QUANT:         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volun         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency deservation	ITIES           3           3           0           3           2           8           9           8           9           8           9           8           9           8           1,560.0 LC'           cription:           0 %		1, Exh. 7-item 23, Fig. 1   mbankment 0.9	<u>8-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volun         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average push gradient:         Average site altitude:	ITIES         3         3         0         8 LCY         ne:       Exhibit 7-         factor:       Cat Hand         CION         200 feet         ction:       1,560.0 LC'         cription:       Compa         0 %       7.500 feet		1, Exh. 7-item 23, Fig. 1   mbankment 0.9	<u>B-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:	ITIES         8         9         BLCY         ne:       Exhibit 7-         factor:       Cat Hand         CION         ction:       200 feet         1,560.0 LC'         cription:       Compa         0 %         7,500 feet		1, Exh. 7-item 23, Fig. 1   mbankment 0.9	<u>B-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:	ITIES         3         3         3         3         3         4         5         2         5         2         1         5         2         1         5         2         1         5         1         5         1         5         1         5         1         5         1         5         1         5         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	 -23B, Table book Y/hr cted fill or en 	1, Exh. 7-item 23, Fig. ]   mbankment 0.9	<u></u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:	ITIES         3         3         0         3         2         1         200 feet         200 feet         200 feet         1,560.0 LC'         cription:       Compa         0 %         7,500 feet         2,550 lbs/LCY         Earth - Dry packed	  book Y/hr cted fill or en 	1, Exh. 7-item 23, Fig. ]   mbankment 0.9	B-1	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	ITIES         3         3         CY         ne:       Exhibit 7-         factor:       Cat Hand         Constant       Cat Hand         CION       200 feet         ction:       1,560.0 LC'         cription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Factor	  book Y/hr  cted fill or en  1	1, Exh. 7-item 23, Fig. 1	<u>B-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S	ITIES         3         3         0         3         2         1         200 feet         1         200 feet         200 feet         1         1         5         0         0         7         500 feet         2         5         0         7         500 feet         2         500 feet         2         500 feet         2         5         0         0         0         0         2         2         5         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0             0		<u>1, Exh. 7-item 23, Fig. 1</u> 	<u>B-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency desc         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consisten	ITIES         8         9         BLCY         ne:       Exhibit 7-         factor:       Cat Hand         YION         200 feet         cription:       1,560.0 LC         cription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.         cncy:       0.		1, Exh. 7-item 23, Fig. 1 mbankment 0.9 Source(AB.AVG.)(CAT HB))	<u>B-1</u>	
MATERIAL QUANT         Initial Volume:       4,998         Swell factor:       1.000         Loose volume:       4,998         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dese         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consistency description	ITTIES         8         9         BLCY         ne:       Exhibit 7-         factor:       Cat Hand         CION         cription:       1,560.0 LC?         cription:       Compa         0 %       7,500 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Skill:       0.         cncy:       0.       1.		1, Exh. 7-item 23, Fig. 1 mbankment 0.9 (AB.AVG.)(CAT HB))(S-BY-S)	<u>B-1</u>	

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradie	ent:	1.000	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	ght:	0.902	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.5822	
Adjusted unit production:	90	08.23 LCY/hr	
Adjusted fleet production:	90	8.23 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.947/LCY

Total job time:	<b>5.50</b> Hours
Total job cost:	\$4,733

# **REVEGETATION WORK**

Task descrij	otion:	<b>Reseed Ditch CWD-1</b>			
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	C1981019
<b>PROJECT</b>	<b>IDENTIFIC</b>	ATION			
Task #: Date: User:	478 3/28/2025 HR1	State:ColoradoCounty:Moffat		Abbreviation: Filename:	None 478
Age	ency or organiz	zation name: <u>DRMS</u>			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

## Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	4.3 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$2,518.77			
Reseeding Job Cost:	\$402.61		_	
Total Job Cost:	\$2,921		_	
Job Hours:	4.30		_	

# **REVEGETATION WORK**

Task descrip	otion:	Reseed Collom Area Fire Lin	nes		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job	#: <u>C1981019</u>
PROJECT	<b>IDENTIFIC</b>	ATION			
Task #:	479	State: Colorado		Abbreviation:	None
Date:	3/28/2025	County: Moffat		Filename:	479
User:	HR1				
Age	ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

## **Application**

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoo	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	5 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$2,928.80			
Reseeding Job Cost:	\$468.15			
Total Job Cost:	\$3,397			
Job Hours:	2.50			

Task description:					
Colowyo Coal Mine	Perr	nit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	CATION				
Task #: 480	State:	Colorado		Abbreviation:	None
Date: $3/12/2025$	County:	Moffat		Filename:	C019-480
User: HR1		1.101140		-	0017 100
Agency or organ	nization name: DR	MS			
HOURLY EOUIPME	NT COST				
Basic Machine: Cat	D11T - 11U				
Horsepower: 850	1				
Blade Type: Uni	versal				
Attachment: NA					
Shift Basis: 1 pe	er day				
Data Source: (CR	RG)				
Cost Brookdown:					
COSt Dreakuown:			Litilization 04		
Ownership Cost/Hour		\$496 67	<u>Uunzauon %</u> NA		
Operating Cost/Hour		\$32/1 90	100		
Rinner own Cost/Hour		\$0.00	<u> </u>		
Ripper on Cost/Hour		\$0.00	100		
Operator Cost/Hour		\$28.50	100		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUANT	\$860.11 <b>\$860.11</b> ITIES				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4.57	\$860.11 <b>\$860.11</b> ITIES 8				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>4,573</u> Swell factor: 1.000	\$860.11 \$860.11 ITIES 8				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0 8 LCY				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573	\$860.11 \$860.11 ITIES 8 0 8 LCY Poic Division (	— — —	on Mining & Sofaty		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,575 Source of estimated volur Source of estimated swell	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: Division of factor: Cat Hand		on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated swell	\$860.11 <b>\$860.11</b> <b>ITIES</b> 8 0 8 LCY ne: Division of factor: Cat Hand	  of Reclamati book	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,575 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: Division of factor: Cat Handle CION	  of Reclamati book	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: Division of factor: Cat Hand CION	  of Reclamati book	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: Division of factor: Cat Handle CION 2 870 3 LCY	  of Reclamati book	 on, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,575 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: Division of factor: Cat Handle CION 2,870.3 LCY	  of Reclamati book Y/hr	on, Mining & Safety		
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       4,573         Swell factor:       1.000         Loose volume:       4,575         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency destance:	\$860.11 \$860.11 ITIES 8 0 8 100 factor: Division of factor: Cat Hand CION 2,870.3 LC cription: Consoli		on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient:	\$860.11 \$860.11 ITIES 8 0 8 LCY ne: Division of factor: Cat Handle CION CION CTION CTION CTION CTION Consolit -5 %		on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	<u>\$860.11</u> <b>ITIES</b> 8 0 8 LCY ne: <u>Division of</u> factor: <u>Cat Handle</u> CION CION CION Ction: <u>100 feet</u> cription: <u>Consolia</u> <u>-5 %</u> 7,600 feet	 of Reclamati book Y/hr idated stockp	 on, Mining & Safety   bile 1.0		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	<u>\$860.11</u> <b>ITIES</b> 8 0 8 LCY ne: <u>Division of</u> factor: <u>Cat Handl</u> CION CION Ction: <u>100 feet</u> cription: <u>Consolia</u> <u>-5 %</u> 7,600 feet <u>1.600 lbs/LCY</u>	 of Reclamati book Y/hr idated stockp 	on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight:	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Division of factor:         factor:       Cat Handle         CION         cription:       100 feet         cription:       Consolit         -5 %       7,600 feet         1,600 lbs/LCY		 on, Mining & Safety   bile 1.0		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Division of factor:         factor:       Cat Handle         CION         cription:       2,870.3 LCY         cription:       Consoli         -5 %       7,600 feet         1,600 lbs/LCY       Top Soil		 on, Mining & Safety    pile 1.0		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$860.11 \$860.11 <b>ITIES</b> 8 0 8 LCY ne: Division of factor: Cat Handle CION CION CTION Cription: Consoli -5 % 7,600 feet 1,600 lbs/LCY Top Soil Factor		on, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator S	\$860.11           \$860.11           ITIES           8           0           8 LCY           ne:         Division of factor:           factor:         Cat Hand           CION         100 feet           cription:         2,870.3 LCY           cription:         Consoli           -5 %         7,600 feet           1,600 lbs/LCY         Top Soil           Factor         Skill:         0.4		on, Mining & Safety bile 1.0 Source (AB.AVG.)		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator S Material consistency	\$860.11         \$860.11         ITIES         8         0         8 LCY         ne:       Division of factor:         factor:       Cat Hand         CION         cription:       2,870.3 LCY         cription:       Consoli         -5 %       7,600 feet         1,600 lbs/LCY       Top Soil         Factor       Skill:       0.9         Skill:       0.1		on, Mining & Safety bile 1.0		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,573 Swell factor: 1.000 Loose volume: 4,573 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator S Material consistency Material consistency Material consistency	\$860.11           \$860.11           \$860.11           ITIES           8           0           8 LCY           ne:         Division of factor:           factor:         Cat Hand           CION         100 feet           ction:         2,870.3 LCY           cription:         Consoli           -5 %         7,600 feet           1,600 lbs/LCY         Top Soil           Factor         Skill:         0.9           Skill:         0.1           Concy:         1.1		on, Mining & Safety		

Task # 480

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pile:		1.000	(DOZ-OC)
Push gradient:		1.115	(CAT HB)
Altitude:		0.930	(CAT HB)
Material Weight:		1.438	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	on:	1.1139	
Adjusted unit production:	3,1	197.23 LCY/hr	
Adjusted fleet production:	31	97.23 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.269/LCY

Total job time:	<b>1.43</b> Hours
Total job cost:	\$1,232

# **REVEGETATION WORK**

Task descrip	ption:	Reseed Collom Haul Road C	hannels		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT	<u>IDENTIFIC</u>	CATION			
Task #: Date: User:	481 3/28/2025 HR1	State:ColoradoCounty:Moffat		Abbreviation: <u>N</u> Filename: <u>4</u>	None
Ag	ency or organi	zation name: DRMS			

## **FERTILIZING**

# Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00

# Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

## Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

## Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acra	<b>40.00</b>
Total Multin Application Cost/Acte	\$0.00

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. Estimated Fai *Selected Replanting Wo	of Acres: lure Rate: ork Items:	3.55 20% SEEDING		Cost /Acre: Cost /Acre*:	\$585.76 \$468.15	
Initial Job Cost: \$2,0 Reseeding Job Cost: \$332 Total Job Cost: \$2,4 Job Hours: 1.50	79.45 2.39 12		-			

1		/11		
: Colowyo Coal Mine	Permit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	<b>ICATION</b>			
Task #: 482	State: Colorado		Abbreviation:	None
Date: 2/6/2025	County: Moffat		Filename:	C019-482
User: HR1				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D11T - 11U			
Horsepower: 850		=		
Blade Type: Uni	versal	=		
Attachment: NA		_		
Shift Basis: 1 pe	er day	_		
Data Source: (CR	(G)	-		
Cost Breakdown:	I	TT/11 / 0/		
Ownership Cost/II	\$ 40 < < 2	Utilization %		
Ownership Cost/Hour:		100		
Pipper own Cost/Hour:	\$524.90	100NA		
Ripper on Cost/Hour:	\$0.00	100		
Operator Cost/Hour	\$0.00	100		
Operator Cost/Hour.	\$38.39	NA		
MATERIAL QUANT	ITIES			
MATERIAL QUANTInitial Volume:1,070Swell factor:1.000Loose volume:1,070	ITIES 0,258 0 0,258 LCY			
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum         Source of estimated swell	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook	n, Mining & Safety		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook	n, Mining & Safety		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum       1,070         Source of estimated swell       1,070         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       1	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook         CION         65 feet         ction:       3,986.3 LCY/hr	n, Mining & Safety		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         MATERIAL QUANT       1,070         Source of estimated volum       1,070         Average of estimated swell       1,070         Average push distance:       1,070         Unadjusted hourly product       Materials consistency dest	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook         CION         etion:       65 feet         cription:       3,986.3 LCY/hr         cription:       Consolidated stockpi	n, Mining & Safety		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         Source of estimated swell       1,070         HOURLY PRODUCT       1,070         Average push distance:       1,070         Unadjusted hourly product       Materials consistency dest         Average push gradient:       Average site altitude:	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook         CION         65 feet         ction:       3,986.3 LCY/hr         cription:       Consolidated stockpi         -10 %       7,600 feet	n, Mining & Safety   le 1.0		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook         CION         65 feet         ction:       3,986.3 LCY/hr         cription:       Consolidated stockpi         -10 %       7,600 feet         2,650 lbs/LCY	n, Mining & Safety		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         Source of estimated swell       1,070         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency dest         Average push gradient:       Average site altitude:         Material weight:       Weight description:	ITIES         0,258         0         0,258 LCY         ne:       Division of Reclamatio         factor:       Cat Handbook         CION         65 feet         ction:       3,986.3 LCY/hr         cription:       Consolidated stockpi         -10 %       7,600 feet         2,650 lbs/LCY       Decomposed rock - 25% Rock, 7	n, Mining & Safety   le 1.0 75% Earth		
MATERIAL QUANT         Initial Volume:       1,07(         Swell factor:       1.000         Loose volume:       1,07(         Source of estimated volum       1,07(         Source of estimated volum       1,07(         Source of estimated swell       1,07(         HOURLY PRODUCT       1,07(         Average push distance:       1,07(         Unadjusted hourly product       1,07(         Materials consistency dest       Average push gradient:         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       1	ITIES         0,258	n, Mining & Safety		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1,000         Loose volume:       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         Material volume:       1,070         Average push distance:       1,070         Unadjusted hourly product       Materials consistency dest         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S	ITIES         0,258	n, Mining & Safety   le 1.0 75% Earth  (AB.AVG.)		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         Source of estimated volum       1,070         Material sconsistency       1,070         Average push distance:       1,070         Unadjusted hourly product       Materials consistency dest         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Operator S         Material consistency       1,070	ITIES         0,258	n, Mining & Safety ————————————————————————————————————		
MATERIAL QUANT         Initial Volume:       1,070         Swell factor:       1.000         Loose volume:       1,070         Source of estimated volum         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency dest         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator S         Material consistence         Dozing met	ITIES         0,258	n, Mining & Safety 		

Task # 482

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 1.000	(DOZ-OC)
Push gradie	nt: 1.225	(CAT HB)
Altitud	de: 0.930	(CAT HB)
Material Weig	ht: 0.868	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.7387	
Adjusted unit production:	2,944.68 LCY/hr	
Adjusted fleet production:	5889.36 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.292/LCY

Total job time:	181.73 Hours
Total job cost:	\$312,609

## Task # 483

r ·····					
Colowyo Coal Mine	Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTIFI	ICATION				
Task #· 483	State:	Colorado		Abbreviation:	None
Date: $\frac{403}{2025}$	County:	Moffat		Filename:	483
User: HR1	County.	monut		-	100
Agency or organ	nization name: DF	RMS			
HOURI V FOUIPME	'NT COST				
Basic Machine: Cat	<u>D91 - 980</u>				
Plada Type: Son	ni Universel				
Attachmenti 2 al	hanlı rinnar				
Shift Design 1 m	nank ripper				
Dete Sources	er day				
Data Source: (CR	(0)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$253.16	NA		
Operating Cost/Hour:		\$164.35	100		
Ripper own. Cost/Hour:		\$18.79	NA		
Ripper op. Cost/Hour:		\$2.37	25		
Operator Cost/Hour:		\$38.59	NA		
Total Fleet Cost/Hour:	\$477.26 \$477.26				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>10,64</u>	<u>\$477.26</u> <b>\$477.26</b> <b>ITIES</b> 48				
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>10,64</u> Swell factor: <u>1.000</u> Loose volume: <b>10,6</b> 4	<u>\$477.26</u> <b>\$477.26</b> <b>TTIES</b> 48 0 <b>48</b> LCY				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 10,64 Swell factor: 1.000 Loose volume: 10,64 Source of estimated volur Source of estimated swell	\$477.26       \$477.26       ITIES       48       0       48 LCY       ne:     Division       I factor:     Cat Hand	of Reclamati	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 10,64 Swell factor: 1.000 Loose volume: 10,64 Source of estimated volur Source of estimated swell HOURLY PRODUCT	<u>\$477.26</u> <b>\$477.26</b> <b>TTIES</b> 48 0 48 0 48 LCY ne: <u>Division</u> Cat Hand <b>CION</b>	of Reclamati	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,64         Swell factor:       1.000         Loose volume:       10,64         Source of estimated volur       10,64         Source of estimated volur       10,64         Matteria       10,64         Loose volume:       10,64         Matteria       10,64         Loose volume:       10,64         Matteria       10,64         Source of estimated volur       10,64         Matteria       10,64         Matteria       10,64         Matteria       10,64	<u>\$477.26</u> <b>\$477.26</b> <b>ITIES</b> 48 0 <b>48</b> LCY ne: Division factor: Cat Hand <b>CION</b>	of Reclamati	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6-         Swell factor:       1.000         Loose volume:       10,6-         Source of estimated volur       10,6-         Source of estimated volur       10,6-         Matteria       10,6-         Matteria       10,6-         Loose volume:       10,6-         Source of estimated volur       10,6-         Source of estimated swell       10,6-         HOURLY PRODUCT       Average push distance:         Unadimeted based       1000000000000000000000000000000000000	<u>\$477.26</u> <b>\$477.26</b> <b>TTIES</b> 48 0 48 LCY ne: <u>Division</u> 1 factor: <u>Cat Hand</u> <b>CION</b> 150 feet 150 feet	of Reclamati lbook	on, Mining & Safety		
Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6-         Swell factor:       1.000         Loose volume:       10,6-         Source of estimated volur       10,6-         Source of estimated volur       10,6-         Source of estimated volur       10,6-         Mathematical Source of estimated volur       10,6-         Source of estimated volur       10,6-         Average push distance:       10,6-         Unadjusted hourly product       10,6-	\$477.26       \$477.26       TTIES       48       0       48 LCY       ne:     Division       1 factor:     Cat Hand       CION       150 feet       ction:     910.5 LCY	of Reclamati lbook	 on, Mining & Safety 		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des	$\begin{array}{r} \underline{5477.26} \\ \underline{$477.26} \\ \hline \\ \underline{$477.26} \\ \hline \\ \underline{$48} \\ 0 \\ \underline{48} \\ 0 \\ \underline{48} \\ \underline{150 \text{ feet}} \\ \underline{$150 \text{ feet}} \\ $$	of Reclamati lbook /hr idated stockp	on, Mining & Safety		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur       10,6/         Source of estimated volur       10,6/         Source of estimated volur       10,6/         Materials consistency des       10,0/         Average push distance:       10,0/         Unadjusted hourly product       10,0/         Materials consistency des       10,0/	$\begin{array}{r} \underline{5} 477.26 \\ \hline 9477.26 \\ \hline \\ $	of Reclamati book /hr idated stockp	on, Mining & Safety		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:	$\begin{array}{r} \underline{5\%}\\ $	 of Reclamati lbook /hr idated stockp	on, Mining & Safety   bile 1.0		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur       10,6/         Source of estimated volur       10,6/         Source of estimated volur       10,6/         Materials consistence:       10,6/         Materials consistency des       Average push gradient:         Average site altitude:       10,6/	$\begin{array}{r} \underline{5\%}\\ $	 of Reclamati lbook /hr idated stockp	on, Mining & Safety		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:       10,6-         Swell factor:       1.000         Loose volume:       10,6-         Source of estimated volur       10,6-         Source of estimated volur       10,6-         Source of estimated volur       10,6-         Materials consistency des       10,6-         Average push distance:       10,6-         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Material weight:	$     \begin{array}{r} 5477.26 \\ \hline             \hline             \hline         $	 of Reclamati lbook /hr idated stockp	 on, Mining & Safety    pile 1.0		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUC1         Average push distance:         Unadjusted hourly product         Materials consistency des         Average site altitude:         Material weight:         Weight description:	<u>\$477.26</u> <b>\$477.26</b> <b>ITIES</b> 48 0 <b>48</b> LCY me: Division 48 LCY me: Division 150 feet ction: <u>910.5 LCY</u> 5 % 7,600 feet 1,600 lbs/LCY Top Soil	 of Reclamati lbook /hr idated stockp	on, Mining & Safety		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction	$\begin{array}{r} \underline{5477.26} \\ \underline{$477.26} \\ \hline \\ \underline{$477.26} \\ \hline \\ \underline{$477.26} \\ \hline \\ \underline{$477.26} \\ \hline \\ \underline{$48} \\ \underline{$0} \\ \underline{$48} \\ \underline{$100} \\ \underline{$100}$	 of Reclamati lbook /hr idated stockp	on, Mining & Safety		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S	<u>\$477.26</u> <b>\$477.26</b> <b>TTIES</b> 48 0 <b>48</b> LCY ne: Division factor: Cat Hand <b>CION</b> ction: <u>150 feet</u> 910.5 LCY/ ccription: <u>Consol</u> <u>5 %</u> 7,600 feet <u>1,600 lbs/LCY</u> <u>Top Soil</u> <u>Factor</u> Skill: 0.	 of Reclamati lbook /hr idated stockp   	on, Mining & Safety		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       10,6/         Swell factor:       1.000         Loose volume:       10,6/         Source of estimated volur         Source of estimated volur         Source of estimated swell         HOURLY PRODUCT         Average push distance:         Unadjusted hourly product         Materials consistency des         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Iob Condition Correction         Operator S         Material consister	\$477.26         \$477.26         \$477.26         ITIES         48         0         48 LCY         ne:       Division         factor:       Cat Hand         File         150 feet         ction:       910.5 LCY/         acription:       Consol         5 %         7,600 feet         1,600 lbs/LCY         Top Soil         Factor         Skill:       0.         ency:       1.		on, Mining & Safety   bile 1.0   <u>Source</u> (AB.AVG.) (CAT HB)		
Total Fleet Cost/Hour:         Total Fleet Cost/Hour:         Initial Volume:       10,6-         Swell factor:       1.000         Loose volume:       10,6-         Source of estimated volur       Source         HOURLY PRODUCT       Average push distance:         Unadjusted hourly product       Materials consistency des         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Iob Condition Correction Operator S       Operator S         Material consistency       Material consistency	\$477.26         \$477.26         ITIES         48         0         48 LCY         ne:       Division         1 factor:       Cat Hand         Ifactor:       2150 feet         ction:       910.5 LCY/         scription:       Consol         5 %       7,600 feet         1,600 lbs/LCY       Top Soil         Factor       Skill:       0.         ency:       1.       1.		on, Mining & Safety 		
Job efficience	cy: 0.830	(1 SHIFT/DAY)			
----------------------------	---------------	---------------			
Spoil pi	le: 0.800	(FND-RF)			
Push gradie	nt: 0.903	(CAT HB)			
Altitud	de: 1.000	(CAT HB)			
Material Weig	ht: 1.438	(CAT HB)			
Blade typ	pe: 1.000	(PAT)			
Net correction	on: 0.7760				
Adjusted unit production:	706.55 LCY/hr				
Adjusted fleet production:	706.55 LCY/hr				

Fleet size:	1 Dozer(s)
Unit cost:	\$0.675/LCY

Total job time:	<b>15.07</b> Hours
Total job cost:	\$7,192

## **REVEGETATION WORK**

	ReseedCollom Haul Road Channels w/Grazing Land Seed Mix			
Coal Mine	Permit Action:	MT9	Permit/Jol	o#: <u>C1981019</u>
DENTIFI	CATION			
484 4/3/2025	State:         Colorado           County:         Moffat		Abbreviation: Filename:	None 484
]	Coal Mine DENTIFIC 484 4/3/2025 HR1	Coal MinePermit Action:DENTIFICATION484State:4/3/2025County:HR1	Coal Mine     Permit Action:     MT9       DENTIFICATION       484     State:     Colorado       4/3/2025     County:     Moffat       HR1     HR1     HR1	Coal Mine       Permit Action:       MT9       Permit/John         DENTIFICATION       484       State:       Colorado       Abbreviation:         4/3/2025       County:       Moffat       Filename:       Filename:

### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

## Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	¢0.00
Total Much Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

No. of Acres: Estimated Failure Rate:		23.6 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$13,823.94			
Reseeding Job Cost:	\$2,209.67			
Total Job Cost:	\$16,034			
Job Hours:	11.80			

# BULLDOZER WORK

Task description:	Regrade Ditch (	GD-3			
Colowyo Coal Mine	e Per	mit Action:	MT9	Permit/Job#:	C1981019
PROJECT IDENTI	<b>FICATION</b>				
Task #: _ 485	State:	Colorado		Abbreviation:	None
Date: 4/3/2025	County:	Moffat		Filename:	485
User: HR1					
Agency or org	ganization name:	RMS			
HOURLY EQUIPM	IENT COST				
Basic Machine:	Cat D8T - 8SU				
Horsepower: 3	10				
Blade Type: S	emi-Universal				
Attachment: <u>N</u>					
Data Source: (1	CPC)				
Data Source. (					
Cost Breakdown:			<b>TT</b>		
		¢172.22	Utilization %		
Ownersnip Cost/Hour	•	\$1/5.52 \$100.71	INA 100		
Ripper own Cost/Hour	•	\$0.00	NA		
Ripper op. Cost/Hour	:	\$0.00	0		
Operator Cost/Hour		\$38.59	NA		
Initial Volume: <u>1,2</u>	210				
Swell factor: <u>1.0</u> Loose volume: <u>1,2</u>	000 210 LCY				
Source of estimated vol	lume: <u>Exhibit 7</u>	7-23B, Table	1, Exh. 7-item 23, Fig. B-	1	
Source of estimated sw	ell factor: <u>Cat Hand</u>	dbook			
HOURLY PRODU	<u>CTION</u>				
Average push distance:	50 feet	18.7.4			
Unadjusted hourly proc	iuction: $1,400.0 \text{ LC}$	CY/hr			
Materials consistency d	lescription: Compa	acted fill or e	mbankment 0.9		
Average push gradient:	0%				
Average site altitude:	7,500 feet				
Material weight:	1,600 lbs/LCY			_	
Weight description:	Top Soil				
Job Condition Correction	on Factor		Source		
Operato	S C1-:11.	750	(AVG.)		
Matanial annal		.730			
Material consi	istency: 0	0.900	(CAT HB))		
Dozing r	istency: 0 nethod: 1	0.900 0.000	(CAT HB)) (GEN.)		

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	de: 1.000	(CAT HB)
Material Weig	ht: 1.438	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.6445	
Adjusted unit production:	902.30 LCY/hr	
Adjusted fleet production:	902.3 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.356/LCY

Total job time:	<b>1.34</b> Hours
Total job cost:	\$431

## **REVEGETATION WORK**

Task descr	iption:	Reseed 3.2 Acres of Disturba	nce		
Site: Colowy	o Coal Mine	Permit Action:	MT9	Permit/Job#	: <u>C1981019</u>
<b>PROJECT</b>	<b>IDENTIFIC</b>	CATION			
Task #: Date: User:	486 4/3/2025 HR1	State:         Colorado           County:         Moffat		Abbreviation:	None 486
A	gency or organi	zation name:DRMS			

### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			Cost/Acre	\$0.00

### Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.40	8.26	\$6.34
Bluebunch Wheatgrass - Secar	4.00	12.86	\$42.05
Bitterbrush, Antelope	6.00	1.85	\$339.08
Mountain Brome - Bromar	2.00	3.21	\$12.03
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Rocky Mountain Fescue	2.00	32.14	\$21.57
Slender Wheatgrass - Pryor	1.50	5.48	\$9.27
Milk Vetch, Cicer - Lutana	0.60	2.00	\$5.87
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37

Western Wheatgrass - Arriba	3.00	7.58	\$27.10
Rabbitbrush, Rubber	0.60	8.94	\$50.04
Needlegrass, Green - Lodorm	0.40	1.66	\$3.46
Sagebrush, Louisiana or Prairie	1.00	100.79	\$184.91
Sagebrush, Mountain or Big	4.00	211.20	\$330.80
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Silver	1.50	29.13	\$102.19
Saltbush, Four Wing	3.20	4.41	\$63.59
Snowberry, Mountain	1.50	2.58	\$88.59
Sumac, Skunkbrush	1.00	0.47	\$45.13
Penstemon, Palmer	0.20	4.42	\$15.59
Penstemon, Rocky Mountain	1.00	15.67	\$61.41
Yarrow, Western	0.40	24.32	\$19.30
Totals Seed Mix	38.30	493.19	\$1,481.54

#### Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

#### Application

Description		Cost /Acre
		\$
Г	Fotal Mulch Application Cost/Acre	\$0.00

#### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	k Cost / Acre	\$0.00

### JOB TIME AND COST

No. of Acres:	3.2	Cost /Acre:	\$1,754.10
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,754.10
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: **\$5,613.12** 

Reseeding Job Cost:	\$1,122.62
Total Job Cost:	\$6,736
Job Hours:	1.50

## TRUCK/LOADER TEAM WORK

Task description:	Load, H	aul and Regrade	e Collom Pit Top	soil-MR248				
Site: Colowyo Coal Mi	ne	Permit Action	on: MT9		Permit/Job#: <u>C1</u>	981019		
PROJECT IDEN	<b>TIFICATION</b>	[						
Task #:487		State: Colora	ado	Ab	breviation: No	ne		
Date: $\frac{4/3}{202}$	25	County: Moffa	t		Filename: 487	1		
User: <u>HRI</u>								
Agency or	organization nar	ne: DRMS						
<u>HOURLY EQUIE</u>	PMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>			
	- 1 X 1 T		Equipment Descri	ption				
Ti	uck Loader Tea	-Loader: LF	MATSU 830E FOURNEAU I 23	50				
Support Equipment -Load Area: Cat D11T - 11U								
-Dump Area: Cat D11T - 11U								
Road Ma	intenance – Mot	or Grader: CA'	<u>T 16M</u>					
	- vv a	tter Truck: wa	ter Tanker, 14,000	J Gal.				
Cost Breakdown:	Truck/Loa	ader Team	Support ]	Equipment	Maintenan	ce Equipment		
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck		
%Utilization-machine:	100	100	100	100	50	50		
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32		
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88		
%Utilization-riper:	NA	0	NA	NA	NA	NA		
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12		
Unit Subtotals:	\$508.88	\$1,253.20	\$860.11	\$860.11	\$266.97	\$222.32		
Number of Units:	4	1	1	2	1	1		
Group Subtotals:	Work:	\$3,288.72	Support:	\$2,580.33	Maint:	\$489.29		
Total work team cost	/hour: <u>\$6,358.</u>	34						
Initial volume:	120 952	CCV	Swall	factor: 1,000				
Loose volume:	138,85	53 LCY	Swell	1actor. <u>1.000</u>				
Sou	rea of astimated	volumo: Divis	tion of Poolematic	on Mining & Saf				
Source	of estimated swe	ell factor: Cat H	Handbook	on, whiling & Sar	lly			
	Material Purch	ase Cost: \$0.00	)					
	То	otal Cost: \$0.00	)					
HOURLY PRO	DUCTION							
Truck Capacity:								
<u>Iruck Payload (weig</u> Material w	<u>nt) Basis:</u> eight: <u>1,600</u>	.1	Pounds/LCY					
Rated Pay	10011 100 SC / 1	0	Pounds					
1		-						

Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	rs. Job Conditic within this Bas Material Descri- - - Unadjusted Bas Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig mership of trucks and eration -0.04 get 0.00 Net Cycle Tin Adjusted Lease	ime (load, dump, r )3 gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040 -0.040 0.000 -0.050 0.675	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes    
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	rs. Job Conditic within this Bas Material Descr - - - Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig mership of trucks and eration -0.04 get 0.00	ime (load, dump, r )3 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040 0.000	725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	rs. Job Conditic within this Bas Material Descr - Unadjusted Ba Material 6" a Conveyor or Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig mership of trucks and eration -0.04	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.030 0.000 -0.040 -0.040	.725 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes   
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership:	<ul> <li>s. Job Conditic within this Bas</li> <li>Material Description</li> <li>- Unadjusted Bas</li> <li>- Unadjusted Bas</li> <li>- Material 6" a Conveyor or Common ow</li> </ul>	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig mership of trucks and	ime (load, dump, r 03 gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.030 0.000 -0.040	) .725 minu Source (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile:	rs. Job Conditic within this Bas Material Descr - - - Unadjusted Ba Material 6" a Conveyor or	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0 dozer piled 10 ft. hig	ime (load, dump, r )3 gh and up 0.00	Dump:0.100 naneuver):0 Factor (min.) 0.030 0.000	.725 minu Source (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	rs. Job Conditic within this Bas Material Descr Unadjusted Ba Material 6" a	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti and over diameter 0.0	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.030	.725 minu Source (Cat HB)	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders – Cycle Time Factors	rs. Job Conditic within this Bas Material Descr : Unadjusted Ba	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle Ti	ime (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.)	) .725 mint Source	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	rs. Job Conditic within this Bas Material Descr : Unadjusted Ba	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cvcle Ti	ime (load. dump. r	Dump: 0.100	) .725 mini	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u>	rs. Job Conditic within this Bas Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100	)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	rs. Job Conditic within this Bas Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v Selected Value Track Loaders –	s. Job Conditions within this Base Material Descu	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:				
Machine Cycle Time v	s. Job Conditio	on Rating: <u>NA</u>				
Excavators and Front Shove	els:					
Loading Tool Cycle Time:	Numbe	er of Loading Tool Pa	asses Required to	Fill Truck:	3 1	passes
Net Correction:	0.830	0.813				
	0.000					
Job Efficiency:	0.830	0.830	(CAT HE	5)		
Altitude Adj:	1.000	0.980	(CAT HE	3)		
	Truck	Loader	Source			
Job Condition Corrections	<u>:</u>	S	Site Altitude (ft.):	7 <u>600</u> feet		
Adjusted Capacity:	58.300	LCY				
Bucket Fill Factor:	1.100	Other - rock/di	rt mixtures (100	-120%) 1.100		_
Rated Capacity:	53.000	LCY (heaped)				
			Bucl	ket Size Class: <u>N</u>	A	_
Loading Tool Capacity						
Final	Truck Volume	e Based on Number o	of Loader Passes:	174.90	LCY	
Aujusted volume.	192.00	LCI				
Adjusted Volume:	192.00					
Average volume:	192.00					
Average Volume:	102.00	LCV				

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	5144	.00	3.00	3.00	6.00	1266	4.238	
	Return Ro	oute:				Haul Time:	4.238	minute	S
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	_	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	5144	.00	-3.00	3.00	0.00	3503	1.672	
Ţ	i m				Total Tru	Return Time: ck Cycle Time:	<u>1.672</u> 9.390	minu minu minu	tes tes
Lo Truck	ading Too Produ Unit Produ	ction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	LCY/Hour
	0111011044		1,117.62	LCY/Hour		Adjusted for j	ob efficiency:	927.62	LCY/Hour
Optimal	l No. of Tr	ucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste	d hourly true	k team production	on: 3,710	).50 LC	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: <u>3,710</u>	).50 LC	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: <u>3,71(</u>	0.50 LC	CY/Hour
	JOB TIN	ME AI	ND COST						
	Fleet	size:	1	Team(s)	]	Fotal job time:	37.42	2 I	Hours
	Unit o	cost:	\$1.714	/LCY	,	Total job cost:	\$237,9	40	

## **REVEGETATION WORK**

Task descri	ption:	Reseed Collom TS Pile Foot	orint 2A		
Site: Colowyo	Coal Mine	Permit Action:	MT9	Permit/Job#	C1981019
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #: Date: User:	488 4/3/2025 HR1	State:         Colorado           County:         Moffat		Abbreviation: 1 Filename: 4	None 188
Ag	ency or organi	zation name:DRMS			

### **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Materials	
			Cost/Acre	\$0.00

## Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	2.00	6.52	\$27.68
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	0.50	2.03	\$5.84
Rocky Mountain Fescue	0.50	8.03	\$5.39
Slender Wheatgrass - Native	0.75	2.74	\$5.30
Milk Vetch, Cicer - Monarch	0.30	1.00	\$2.87
Thickspike Wheatgrass - Critana	1.25	4.42	\$10.19
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.75	3.12	\$6.48
Sagebrush, Mountain or Big	0.50	26.40	\$41.35

Flax, Lewis Blue	0.25	1.66	\$10.57
Saltbush, Four Wing	1.60	2.20	\$31.80
Snowberry, Mountain	0.75	1.29	\$44.29
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, Western	0.10	6.08	\$4.82
Totals Seed Mix	12.00	74.80	\$231.51

### Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

### Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	<b>40.00</b>
Total Mulch Application Cost/Acte	\$0.00

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nurserv Stoc	k Cost / Acre	\$0.00

Estimate	No. of Acres: ed Failure Rate:	18.2 20%	Cost /Acre: Cost /Acre*:	\$585.76 \$468.15
*Selected Replanting Work Items:		SEEDING		
Initial Job Cost:	\$10,660.83			
Reseeding Job Cost:	\$1,704.07			
Total Job Cost:	\$12,365			
Job Hours:	9.10			

## TRUCK/LOADER TEAM WORK

Task description:       Load, Haul and Regrade Collom Topsoil from 25A         Site:       Colowvo Coal Mine       Permit Action: MT9       Permit/Job#: C1981019								
		I chint Activ	011. <u>WI</u>	·		.)01019		
PROJECT IDENTIFICATIONTask #:489State:ColoradoAbbreviation:NoneDate:4/3/2025County:MoffatFilename:C019-489User:HR1Filename:C019-489								
Agency or	organization nar	ne: DRMS						
HOURLY FOUI	PMENT COST	Г		Shift bas	is: 1 per dav			
<u>moondr door</u>		-	Fauinment Descri	ntion	is. <u>I per ady</u>			
]	Truck Loader Tea	m -Truck: KO	MATSU 830E	ption				
		-Loader: LET	FOURNEAU L23	50				
Support Equipment -Load Area: Cat D11T - 11U								
Road Maintenance – Motor Grader: CAT 16M								
	-Wa	ter Truck: Wat	ter Tanker, 14,000	) Gal.				
<u>Cost Breakdown</u> :	Truck/Loa	ader Team	Support	Equipment	Maintenan Motor Grader	ce Equipment Water Truck		
	TTUCK	Loader	Load Alea	Dump Alea	Motor Grader	Water Huck		
% Utilization-machine:	100	100	100	100	50	50		
Ownership cost/hour:	\$209.47	\$635.29	\$496.62	\$496.62	\$179.39	\$130.32		
Operating cost/hour:	\$274.17	\$581.06	\$324.90	\$324.90	\$59.82	\$70.88		
% Utilization-riper:	NA NA	0	NA \$0.00	NA \$0.00	NA	NA		
Ripper own. cost/hour:	NA NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Operator cost/hour:	\$25.24	\$36.85	\$38.50	\$38.50	\$0.00	\$0.00		
Unit Subtotals:	\$508.88	\$1 253 20	\$860.11	\$860.11	\$266.97	\$222.32		
Number of Units:	4300.08	φ1,235.20 1	4000.11	2	\$200.77	φ222.32		
Group Subtotals:		\$3 288 72	Support:	\$2,580,33	Maint [.]	\$489.29		
The second secon	* * • • • •	\$3,200.72	Support	¢ <b>2</b> ,500.55	1,141111	\$109. <u>2</u> 9		
Total work team cos	st/hour: <u>\$6,358.</u>	34						
MATERIAL OU	ANTITIES							
Initial volume Loose volume	: <u>176,837</u> : <b>198,9</b> 4	42 CCY	Swell	factor: <u>1.125</u>				
So	urce of estimated	volume: Divis	sion of Reclamation	on Mining & Safe	etv			
Source	of estimated swe	ell factor: Cat H	Handbook					
	Material Purch	ase Cost: \$0.00	)					
	То	otal Cost: \$0.00	)					
HOURLY PRO	DUCTION							
<u>Truck Capacity:</u> Truck Payload (wei	ght) Basis:							
Material v	veight: <u>2,550</u>	<u> </u>	Pounds/LCY					
Descr Rated Pa	1pt1on: Earth -	Dry packed	Pounds					
Pavload Ca	pacity: $193.02$	U	LCY					
1 ujioud cupucky: <u>199102</u> 201								

<u>Truck Bed (volume) Basis:</u> Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	153.00       I         192.00       I         172.50       I         192.00       I	LCY LCY LCY LCY				
Final	Truck Volume	Based on Number of	Loader Passes:	174.90	LCY	
Loading Tool Capacity						
			Buck	ket Size Class: <u>N</u>	А	
Rated Capacity: _	53.000	LCY (heaped)	····	1200() 1 100		-
Adjusted Capacity:	<b>58.300</b>	LCY	mixtures (100	-120%) 1.100		-
5 I <u> </u>						
Job Condition Corrections:	_	Site	e Altitude (ft.): 7	7 <u>600</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.980	(CAT HB	<u>5)</u>		
Job Efficiency:	0.830	0.830	(CAT HB	5)		
Net Correction:	0.830	0.813				
Looding Tool Cools Theory	NT 1.	of Looding Tool D	Deminute 1	Cill Transla	2	
Loading 1001 Cycle 11me:	Number	of Loading Tool Pas	ses Required to I	Fill Iruck:	<u> </u>	basses
Excavators and Front Shove	<u>s:</u>					
Machine Cycle Time v Selected Value v	s. Job Condition vithin this Basic	Rating: <u>NA</u> Rating: NA				
Track Loaders –	Material Descri	ption:				
Cycle Time Elements (min.):	,					
Load: NA	Ma	aneuver: NA		Dump: 0.100		
Wheel and Track Loaders -	Unadjusted Bas	vic Loader Cycle Tim	e (load dumn r	naneuver): 0	725 mini	ites
Cruele Time Eesters	Chadjusted Dat	ie Louder Cycle Thin	e (ioud, dump, i	Easter (min.)	<u> </u>	1005
Cycle Time Factors Material:	Matarial 6" an	d over diameter 0.03		- Factor (min.)	(Cot HR)	_
Stockpile:	Conveyor or d	ozer niled 10 ft high	and up 0.00	0.030	(Cat HB)	_
Truck Ownership:	Common own	ership of trucks and l	oaders -0.04	-0.040	(Cat HB)	
Operation:	Constant operation	ation -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	t 0.00		0.000	(Cat HB)	
		Net Cycle Time	e Adjustment:	-0.050	minutes	
		Adjusted Loade	Cycle Time:	0.675	minutes	
		Net Load Ti	ne per Truck:	1.450	minutes	
Truck Cycle Time:						
Truck Exchange Time	0.80	Minutes	Adjusted	for site altitude:	0.800	Minutes
Truck Load Time	1.450	Minutes	Adjusted	for site altitude:	1.480	Minutes
uck Maneuver and Dump Time	1.20	Minutes	Adjusted	for site altitude:	1.200	Minutes
Truck Travel (Haul & Return maintained 3.0	) Time:	Road Condition: <u>F</u>	rm, smooth, rol	 ling, dirt/lt. surfacec	l, watered,	-

	Haul Rou	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	5144	.00	3.00	3.00	6.00	1266	4.238	
	Return Ro	oute:				Haul Time:	4.238	minute	·S
Γ	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
	0	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	5144	.00	-3.00	3.00	0.00	3503	1.672	
Return Time:       1.672       minutes         Total Truck Cycle Time:       9.390       minutes							tes		
Truck	Produ Unit Produ	iction	4,603.46	LCY/Hour		Adjusted for j	ob efficiency:	3,820.87	<u>/</u> LCY/Hour
much	e int i rout	etion	1,117.62	LCY/Hour		Adjusted for j	ob efficiency:	927.62	LCY/Hour
Optima	al No. of Tr	ucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste	d hourly truc	k team production	on: <u>3,710</u>	).50 LC	CY/Hour
				Adjusted sing	Adjusted single truck/loade		on: <u>3,710</u>	).50 LC	CY/Hour
	A		Adjusted multip	ljusted multiple truck/loader		on: 3,710	<u>).50</u> LC	Y/Hour	
	JOB TIN	ME Al	ND COST						
Fleet size:		1	Team(s)	[	Fotal job time:	53.62	2 I	Hours	
	Unit	cost: _	\$1.714	/LCY	,	Total job cost:	\$340,9	08	