

October 27, 2023

Chris Walker New Elk Coal Company, LLC 12250 Highway 12 Weston, CO 81019

Re: New Elk Mine, Permit C-1981-012. RN-08 Preliminary Adequacy Review.

Dear Chris Walker:

New Elk Coal Company (NECC) submitted an application to the Division of Reclamation, Mining and Safety (the Division) for Permit Renewal on August 28, 2023. The application was found complete on August 31, 2023.

This letter lists the issues that the Division requires to be addressed in order for the permit to be renewed. In general, no separate permitting action will be needed to address these issues, and pages in the Permit Application Package (PAP) that are revised in response to this letter can be submitted with "RN-08" or "RN8" in the footer. An exception is Item #1: the ownership and control information should be updated as soon as possible (with a Minor Revision), if it needs to be updated.

Rule 2.03

2.03.4 – Identification of Interests

- 1. Please provide an official end date documentation for Malcolm Carson and Jonathan Reynolds on corporate letterhead. Additionally, please include Mr. Carson's information under the director information for Allegiance Coal Limited's table on the revised pages 5 and 6 of Section 2.03.4 submitted with the application.
- 2. On the officer and control information provided, Black Warrior Minerals was listed as an LLC (pages 6-8 in Section 2.03.4 of the revised pages). In previous filings, the company was listed as an Inc. (see page 10 of Section 2.03.4 of the revised pages). If Black Warrior Minerals has changed to an LLC, then we would need official documentation detailing the change in ownership which would include corporate minutes and secretary of state filings. If Black Warrior Minerals is still an Inc. and the LLC was done in error, please provide an updated officer and control listing with the correction.

2.03.5 – Compliance Information



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- **3.** The revised pages 10 and 11 of Section 2.03.5 of the application do not contain the entire list of violation notices received by the applicant during the three year period preceding the application date pursuant to Rule 2.03.5(1)(c). Additionally, page 10 of the application is discontinuous with page 11 of the PAP. Please, revise this section of the application and PAP.
 - Pursuant to 2.03.5(1)(c)(i) please provide the name of the issuing regulatory authority, department or agency for each violation.
- 4. Please update section 2.03.5 to reference Exhibit 33. Please update Exhibit 33 in the PAP.

2.03.6 – Right of Entry and Operation Information

- 5. Map 1 is referenced on page 11 of Section 2.03.6 in the PAP. The surface owners depicted on Map 1 do not appear to correlate with those listed in the table in section 2.03.4(6) and (7) (page 9) of the RN8 application. Please ensure that all surface owners of record of all surface and subsurface areas contiguous to any part of the proposed permit area are included within this section of the PAP and shown on Map 1.
- 6. Please verify that all of the right of entry agreements listed on page 13 of Section 2.03.6 of the PAP are current and valid.
- 7. Map 2 is referenced on page 13 of Section 2.03.6 in the PAP The sub-surface owners depicted on Map 2 do not appear to correlate with those listed in the table in section 2.03.4(6) and (7) (page 9) of the RN8 application. BlueGreen Corp of Rockies is not listed on Map 2. Federal Coal is listed on Map 2, but not in the table on page 9 in section 2.03.4(6) and (7) of the application. Pioneer Natural Resources is listed both under '21' and '34' on Map 2. Please revise Map 2, and the table in 2.03.4(6) and (7) in the PAP.
- 2.03.7 Relationship to Areas Designated Unsuitable for Mining

No adequacy issues noted.

2.03.8 – Permit Term Information

- 8. Please update section 2.03.8 of the PAP starting on page 13. Section 2.03.8(2) has outdated information pertaining to the anticipated or actual starting date and termination date of each phase of underground mining activities. Please revise this section of the PAP.
- 2.03.9 Personal Injury and Property Damage Insurance Information

No adequacy issues noted.

2.03.10 – Identification of Other Licenses and Permits

- **9.** Please confirm that all the Licenses and Permits referenced in 2.03.10 in Table 2 and the 'Identification of Other Licenses and Permits' (listed on pg. 16) are still representative of all those required and are current.
 - Please update each permit and or license in Table 2 to include the permit numbers pursuant to Rule 2.03.10(3) and the dates of approval or disapproval pursuant to Rule 2.03.10(4)
- 2.03.11 Identification of Location of Public Office for Filing of Application

No adequacy issues noted.

- 2.03.12 Newspaper Advertisement and Proof of Publication
- **10.** Please reference Exhibit 4 in section 2.03.12 of the PAP. Additionally, please update Exhibit 4 in the PAP to include the most recent Public Notice and provide proof of publication.

Rule 2.04

2.04.3 – General Requirements: Site Description and Land Use Information

No adequacy issues noted.

- 2.04.4 Cultural and Historic Resource Information
- 11. A 2021 cultural resources survey was performed. Should mining activity restart and new surface disturbance be proposed, SHPO recommends that a class III cultural resource inventory be completed prior to construction activities to determine the presence of cultural resources in the area of potential effect and to assess the eligibility of any resources for the National Register of Historic Places (NRHPA). Rule 2.04.4 requires such an analysis for areas potentially impacted by surface activities or probable subsidence. At the moment no new cultural resources survey is required.
- 2.04.5 General Description of Hydrology and Geology

No adequacy issues noted.

2.04.6 – Geology Description

No adequacy issues noted.

2.04.7 – Hydrology Description

12. An item for consideration, the last permitted well inventory of wells within a one-mile radius of the permit boundary was completed in December 2010. Please update the groundwater user inventory

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Table 10, Table 11 and Map 8.

2.04.8 – Climatological Information

- **13.** Verify that the climatological information provided in Tables 13 and 14 are representative of recent climatological trends.
- 14. The wind data provided in Exhibit 13 is sourced from 1970. Please verify that the wind data is still representative of recent climatological trends.
- 2.04.9 Soils Resource Information

No adequacy issues noted.

- 2.04.10 Vegetation Information
- **15.** Pursuant to Rule 2.04.10(2), the proposed locations of reference area(s) must be included on the vegetation map. Please revise the map to indicate the reference areas for each proposed post mine land use.
- 2.04.11 Fish and Wildlife Information
- **16.** On page 2.04-50, it is stated that the mine area is within the range of five mammal, three bird, and one fish species classified as threatened and endangered by the Federal Government or the State of Colorado or by both. Please review the current federal and state endangered and threatened species lists and confirm that the information in 2.04.11 of the PAP is current.
- 2.04.12 Prime Farmland Investigation

No adequacy issues noted.

Rule 2.05

2.05.3 - Operation Plan – Permit Area

- 17. Map 3 -2019 is referenced on page 3 of the 2.05.3 section of the PAP. The most recent Map 3 in the PAP is from 2022. Please update the narrative on page 3 and replace it in the PAP.
- 18. Figure 1: Generalized Stratigraphic Section of the Permit Area, is referenced on page 3 of the 2.05.3 section of the PAP. In the Figures Table of Contents document in the PAP, Figure 1 and Figure 1a are noted as located in section 2.04. However, only Figure 1a is present in Section 2.04 of the PAP. Please either include a copy of Figures 1 and 1a within the Figures Table of Contents document, and indicate its position in the table of contents, or revise section 2.04 of the PAP to include Figure 1.

- **19.** On Page 3 of Section 2.05.3, please commit to submitting a permit revision to update the mine plan prior to re-initiating operations at the New Elk Mine.
- **20.** Please confirm or revise the stockpile information provided on page 6 of the 2.05.3 section of the PAP.
- **21.** Figure 2a is referenced in the 2.05.3(3) section of the PAP. In the Figures Table of Contents document, where Figure 2a is located, there is a portion of a narrative at the top of the page that is discontinuous with the rest of the document. Please revise this page of the Figures Table of Contents document in the PAP.
- 22. Figure 19 referenced in section 2.05.3 of the PAP, located on page 11, references 'Map 11 New Elk Mine Site Plan, Bosque del Oso, Sheet 1a Roads, Slope Track, Cut Areas'. Map 11 Sheet 1a is absent from the PAP. Please include this map in the PAP.
- **23.** Page 20 of section 2.05.3(3)(d) of the PAP states that the Jansen load out facility will be temporary and will be used until 2012. Please update this page of the PAP to reflect the current projected timeline for the use of the Jansen loadout.
- 24. On page 21 of section 2.05.3(4) of the PAP, Map 13A is referenced as the 'Drainage Basins' and then later on the page as 'Sediment and Surface Water Control Silo Area'. Map 13A in the PAP reflects the latter title. Please include the Drainage Basins map in the PAP. If the title of the Drainage Basin map is different than Map 13A, please update this portion of the narrative to match the map's title in the PAP on page 21 of section 2.05.3.
- **25.** There are five sediment ponds at New Elk. DRMS is unable to locate engineer certified as built drawings and SedCad model runs for all ponds and containments. Text descriptions of SedCad models do not replace the actual model runs. Also pond naming convention is inconsistent throughout the permit, sometimes ponds are referenced 004 and other times 004A

	AS Builts	SedCad
Ponds	RDA containments	
001	#1	#005
004	#2	
008	RDA SE	
	RDA SW	
	RDA N	

DRMS was able to locate As Built designs as follows:

Adequacy issues noted

• Please either indicate to DRMS where these figures are in the permit document or, submit revised pages of the engineer certified drawings for ponds missing as built

drawings.

- Please either indicate to DRMS SedCad models are located in the permit document or, submit revised pages of SedCad models for ponds and containments missing SedCad models.
- Please comment to DRMS assuring that the current drainage plan within the current permit area is up to date or provide revised pages updating the drainage plan.
- **26.** Please update Map 13, Map 14, Table 20, and Table 21 to match the on-ground conditions at the mine site. Ditches and culverts must be in the same locations as shown on the maps, and dimensions and other specifications must match the tables. Other features, such as SAEs, must also be depicted accurately.
- 27. On pages 38 and 19 of section 2.05.3(5) of the PAP provides information for the current status of the RDA pile as of 2019. Please review this section and update the elevation and current status if necessary.
- **28.** On page 43 of section 2.05.3(8), Map 22: Mine Progress is referenced alongside Map 3. Please clarify on Page 43 of the PAP the distinction between the two maps to justify why Map 22 does not need to be updated.
- **29.** Page 45 of section 2.05.3(8) states that "fabric will be placed on top of the rock under drain in advance of the refuse placement (see Figure 8)". Figure 8 does not appear to address the installation of fabric on top of the underdrain. Please revise this figure within the PAP.
- **30.** Page 50 of section 2.05.3(8) states that "DWDA #2 is at full capacity in the year 2012". This section of the narrative states that development waste would subsequently be placed in a temporary DWDA, and upon final construction of DWDA #3, will be moved to DWDA #3. Please provide the Division with a comment as to whether a temporary DWDA or DWDA #3 are currently being utilized. Alternatively, please revise this section of the PAP to reflect current development waste and pond cleaning waste disposal procedures conducted on-site.

2.05.4 – Reclamation Plan

- **31.** Please update page 52 of section 2.05.4 of the PAP to include language about the current idle status of mining operations at the site. For example, under the 'Timetable' heading, the narrative states that operations are ongoing at the site. Additionally, please commit to submitting a revision to the permit prior to reinitiating operations at the site.
- **32.** The Division has conducted an updated cost estimate pursuant to Rule 2.05.4(2)(b). The Division's cost estimate is enclosed with this document. Currently, the Division holds a bond in the amount of \$5,218,954. The Division's updated estimate brings the reclamation costs to \$6,788,196 a difference of \$1,569,242. Please, review the cost estimate and confirm if you concur with the estimate. If NECC does not concur with the cost estimate please provide a cost estimate for review in accordance with Rule 2.05.4(2)(b).

- **33.** Figures 14 and 14a are referenced in section 2.05.4 of the PAP. In the Figures and Tables document, the legend on the right side of the figures is illegible. Please submit legible Figures 14 and 14a into the Figures and Tables document in the PAP.
- **34.** The revegetation plan on page 58b of Section 2.05.4 references Figure 10 and Figures 10a-10d. These figures depict the RDA as of June 2020. If these figures do not reflect current conditions, please revise them, and include them in the PAP.
- **35.** The revegetation plan on page 58c of Section 2.05.4 states that vegetation analysis was to be completed by the end of 2021. Please update this narrative to reflect current time tables, and indicate if this analysis has been completed.
- **36.** Page 58c of section 2.05.4 of the PAP is discontinuous with page 58d. Please revise either page in the PAP.
- **37.** Please update the reclamation costs included on page 58e of section 2.05.4 of the PAP.
- **38.** Page 67a of section 2.05.4 of the PAP prefaces a section header for 'disposal of debris, acid-forming and toxic forming materials' with (2)(t). This section seems to address area (2)(f) of Rule 2.05.4. Please revise the header on this page of the PAP to match the section of the Rule that it's addressing.
- 2.05.5 Postmining Land Uses

No adequacy issues noted.

- 2.05.6 Mitigation of the Impacts of Mining Operations
- **39.** Map 3 of the permit shows the mine workings and projected mining units for the Blue Seam. This map is outdated and does not reflect the current mine workings as shown on the mine workings map displayed in the miner's ready room. Map 3 needs to be updated.

Rule 4

4.03 – Roads

No adequacy issues noted.

- 4.05 Hydrologic Balance
- ->4.05.2 Water Quality Standards
- 40. The information required by this rule is discussed throughout permit section 2.05.3. Sediment ponds and water conveyance structures are in place and some are modeled as per permit section 2.05.3. Exhibit 10 comprises the Water Quality Analysis, Exhibit 22 comprises the NPDES Permit. It

appears that the direct discharge to the Purgatoire meets effluent standards at this time. Please continue to diligently monitor any direct discharge to the Purgatoire River. Design of the refuse disposal area Permit pages 2.05-43 through 2.05-50. This area should also be consistently monitored for water quality standards.

- Permit section 2.05 pages 74 through 77 describes water within the mine workings. DRMS finds that this has not been updated since 2016.
- Please comment to DRMS that the description of water within the mine workings remains representative of the current situation. If the situation has changed in any way please update with revised pages.

->4.05.3 – Diversions and Conveyance of Overland Flow (less than 1sq mile watershed)

- **41.** Maps 13 and 14 Sediment and surface water control plan, Culvert table Table 19a indicates no watersheds of less than one square mile exist on the permit.
 - Please verify with DRMS any watersheds of less than one square mile within the permit.
 - Please indicate where in the permit how any less than one square mile address the provisions of the above mentioned rule.
 - Please indicate where in the permit temporary diversions address the above mentioned rule.

->4.05.4 – Stream Channel Diversion and Reconstruction

42. During a previous permit term the operator submitted design details for the permanent diversion of the Middle Fork of the Purgatoire River. This diversion was necessary to accommodate coal storage and preparation plant operations. The Division approved this permanent diversion and the operator completed the approximately 580-foot diversion in the spring and early summer of 1985. This decision is based on a finding that the proposed diversion meets the requirements of 4.05.18 and 4.05.4; applicable local, State, and Federal statutes and regulations; and that the diversion is designed to safeguard public safety and to minimize adverse impacts to the hydrologic balance (4.05.4(1) and (4)).

The Division has found that this diversion will not diminish downstream water rights and meets the requirements of Rule 4.05.4(3). Exhibit 21 of the PAP (Supporting Information for Permanent Diversion) contains the pertinent design information.

DRMS was unable to locate either a modeled SedCad run for this diversion or an engineer certified design for the diversion.

• Please either guide DRMS to information as required by the above mentioned rule or provide these above referenced documents as revised pages.

->4.05.6 – Ponds

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- **43.** The information required by this rule is discussed in section 2.05 of the permit document on pages 2.05-20 through 2.05-35. Figure 3 illustrates Embankments Cross Sections, Surface water control is illustrated on Maps 13 and 14, Table 23 summarizes pond dimensions.
 - Please see adequacy questions related to this Rule (4.05.6) as addressed above for Rule 2.05.3.4.
 - DRMS was unable to locate Figure 3 and Figure 5 associated with Pond 001. It appears to DRMS that Figure 5 is in Exhibit 19, Results of Annual Pond Survey, associated with the Wyoming Coal Co. 1987. Is this correct? If not please provide both Figures, 3 and 5 as revised pages or guide DRMS to where these figures may be located.
- 44. Pond 006A appears to discharge to the Purgatoire River as per Wyoming Fuel Co 1987 document. This document illustrates Pond 006, 007 and references Pond 006A and appears to be Figure 5 and Exhibit 19. This Pond terminology appears inconsistent, as does the naming convention of the document; Exhibit 19 Results of Annual Pond Survey, and Figure 5.
 - Please clean up the table of contents to detail pond related items in Exhibit 19 by Pond name and associated figures and submit as revised pages.
 - Ponds are referred to by various names, for example Pond 005A or Pond 005. Please decide on a consistent naming convention and utilize it throughout the permit.

->4.05.9 – Impoundments

No adequacy issues noted.

->4.05.13 – Surface and Ground Water Monitoring No adequacy issues noted.

4.06 – Topsoil

No adequacy issues noted.

4.07 – Sealing of Drilled Holes and Underground Openings

No adequacy issues noted.

4.09 – Disposal of Excess Spoil

No adequacy issues noted.

4.10 – Coal Mine Waste Banks

No adequacy issues noted.

4.11 – Coal Mine Waste

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No adequacy issues noted.

4.15 – Revegetation

No adequacy issues noted.

4.16 – Postmining Land Use

No adequacy issues noted.

4.18 – Protection of Fish, Wildlife, and Related Environmental Values

No adequacy issues noted.

4.20 – Subsidence Control

No adequacy issues noted.

4.24 – Operations in Alluvial Valley Floors

No adequacy issues noted.

4.25 – Operations on Prime Farmland

No adequacy issues noted.

The decision date is currently set for **December 29, 2023.** If you require additional time to address the adequacy issues listed above, please request a decision date extension in writing prior to December 29, 2023.

If you have any questions, please contact me at <u>amber.gibson@state.co.us</u> or 720-836-0967. Thank you for your attention to these matters.

Sincerely,

filson

Amber M. Gibson

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Environmental Protection Specialist

Enclosure: 2023 RN8 Cost Estimate Update

Ec: Nick Mason, New Elk Coal Company, LLC Brock Bowles, DRMS Robin Reilly, DRMS Patrick Lennberg, DRMS Jared Ebert, DRMS

COST SUMMARY WORK

]	Fask descrip	otion:	Cost Summary	y				
Site:	New Elk	Mine	I	Permit Action:	RN8	Permit/Jol	o#: <u>C1981012</u>	
<u>P</u>]	ROJECT	IDENTIFIC	CATION					
	Task #:	000	State	Colorado		Abbreviation:	None	
	Date:	10/20/2023	County	Las Anima	S	Filename:	C012-000	
	User:	AMG						

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
	Description	Used	Size	Hours	Cost
001	Backfill and Regrade East Portal Area	DOZER	3	83.38	\$117,482
002	Push Temporary Coal Stockpiles to Conveyor	DOZER	3	12.23	\$16,231
003	Regrade Pond 004	DOZER	1	7.81	\$3,668
004	Regrade Pond 006	DOZER	1	8.73	\$4,023
005	Regrade Pond 007	DOZER	1	21.50	\$9,907
006	Regrade Pond 008; Rip and Regrade Spillway	DOZER	1	66.13	\$30,760
007	Regrade West Portal Containment Area 1	DOZER	1	4.34	\$1,999
008	Regrade temporary Ditches at West Portal	DOZER	1	0.37	\$162
009	Backfill East Portal Face	DOZER	3	0.93	\$1,305
010	Backfill West Portal Face	DOZER	2	1.39	\$1,280
011	Backfill Bates Portal Face	DOZER	2	38.69	\$35,646
012	Regrade Areas from MR-99, MR-107, MR-111, MR-114	DOZER	3	1.43	\$1,902
013	Replace Topsoil on D26 Extension	DOZER	1	0.24	\$104
014	Backfill and Regrade DWDA Expansion	DOZER	2	2.68	\$2,518
015	Replace Topsoil on Six Drill Pads and Mud Pits	DOZER	1	4.62	\$2,045
016	Rip and Regrade C&W Train Shop Area	DOZER	2	12.74	\$11,964
017	Regrade Access Road to NW Vent Shaft (TR72)	DOZER	1	2.33	\$1,031
019	Strip and Place 5 acres of topsoil RDA	TRUCK1	1	83.52	\$86,485
020	Strip and Place 10 acres of Cover over 2 feet from borrowRDA	TRUCK1	1	287.66	\$297,889
021	Strip and Place 4 acres of Cover over 2 feet from RDA back	TRUCK1	1	115.07	\$119,158
022	Strip and Place 5 acres of Cover over 2 feet from borrow RDA	TRUCK1	1	236.40	\$244,805
023	Replace topsoil over borrow area RDA	TRUCK1	1	53.94	\$43,603
024	Backfill and Regrade Transformer and Rock Dust Cut Slope	TRUCK1	1	48.56	\$77,866
025	Replace Topsoil to Transformer and Rock Dust Cut Slope	TRUCK1	1	1.40	\$2,222
026	Clean Ponds 004, 007, and 008 Twice During Liability Period	TRUCK1	1	121.05	\$141,133
027	Replace Topsoil on NW vent Fan Aea (TR72)	TRUCK1	1	5.95	\$3,551
028	Demolish and Remove All Structures	DEMOLISH	1	1,009.00	\$2,235,546
029	Demolish and Remove Structures @ C&W area	DEMOLISH	1	24.00	\$88,197
030	Exploration Drilling TR-74	BOREHOLE	1	60.00	\$54,295
031	Plug and Seal All Boreholes and Monitoring Wells	BOREHOLE	1	73.00	\$163,052
032	Seal Additional Wells	BOREHOLE	1	36.00	\$48,155

Haul Raw Coal Stockpile to Development Waste Pile	SCRAPER1	1	12.59	\$22,575
Haul Clean Coal Stockpile to Development Waste Pile	SCRAPER1	1	20.43	\$36,320
Replace Cover material on DWDA #2	SCRAPER1	1	2.29	\$4,309
Replace Topsoil to DWDA #2	SCRAPER1	1	5.40	\$10,159
Replace Topsoil to Area East of Pond 5	SCRAPER1	1	0.42	\$792
Replace Topsoil to Pond 005	SCRAPER1	1	0.30	\$554
Replace Topsoil to Area Under Conveyor	SCRAPER1	1	0.90	\$1,695
Replace Topsoil to Raw Coal Storage Stockpile	SCRAPER1	1	1.37	\$2,570
Replace Topsoil to Small DR Area in Large DNR Area	SCRAPER1	1	0.10	\$190
Replace Topsoil to Clean Coal Stockpile	SCRAPER1	1	0.93	\$1,749
Replace Topsoil to East Extension of River Pumphouse	SCRAPER1	1	0.22	\$413
Replace Topsoil to Embedded Waste Area	SCRAPER1	1	2.01	\$3,790
Replace Topsoil to RDA	SCRAPER1	1	122.41	\$230,263
Replace Topsoil to Four Bench Slopes	SCRAPER1	1	15.69	\$29,660
Replace Topsoil to RDA Pond	SCRAPER1	1	5.17	\$9,621
Replace Topsoil to Bates Portal Face-Up	SCRAPER1	1	3.01	\$5,657
Replace Topsoil to West DWDA	SCRAPER1	1	67.00	\$128,416
Compact Final RDA Surface	COMPACT	1	32.46	\$9,439
Seal Portals and Vent Shafts	MINESEAL	1	270.00	\$646,810
Regrading 30,000 LCY Refuse (RDA)	GRADER	2	4.14	\$3,114
Finish Grade Refuse Disposal Area	GRADER	1	5.31	\$1,439
Finish Grade West DWDA Area	GRADER	1	8.35	\$2,261
100 year ditch	EXCAVATE	1	27.86	\$4,647
ReplaceTopsoil to Zig Zag Road	EXCAVATE	1	0.47	\$75
Site Maintenance during the 10 year liability period	SITEMAINT ENANCE	1	400.00	\$65,304
Rip Mine Entry Area Prior to Regrading	RIPPER	3	8.56	\$12,066
Rip Wedge Area Prior to Regrading	RIPPER	3	0.76	\$1,081
Rip Prep Plant Area Prior to Regrading	RIPPER	3	2.57	\$3,628
Rip West Portal DNR Areas	RIPPER	3	11.94	\$16,836
Rip East Portal - Only DNR Area	RIPPER	3	16.78	\$23,646
Rip Zig Zag Road and Slurry Line Road	RIPPER	3	0.44	\$630
Reseed RDA Borrow Area	REVEGE	1	5.00	\$7,710
Reseed Facilities Area with Rangeland Mix	REVEGE	1	178.00	\$155,621
Reseed RDA	REVEGE	1	95.25	\$48,958
Reseed DWP with Rangeland Mix	REVEGE	1	11.24	\$9,017
Reseed Disturbed Areas with Riparian Habitat	REVEGE	1	21.14	\$18,426
Plant 6 Shrub Clumps	REVEGE	1	5.60	\$2,502
Weed Control - Assume 1/4 of Area Three Times	REVEGE	1	102.71	\$19,609
Seed Rangeland Seed Mix on MR Areas	REVEGE	1	2.22	\$5,098
Reseed C&W Facilities Area with Rangeland Mix	REVEGE	1	12.00	\$9,600
Reseed Zig Zag with Rangland Mix	REVEGE	1	1.60	\$4,512
Reseed West DWDA Expansion Area with Rangeland Mix	REVEGE	1	20.40	\$16,321
Seed NW Vent Fan and Access Road (TR72)	REVEGE	1	1.55	\$2,728
Mobilize/Demobilize Equipment for Initial Reclamation	MOBILIZE	1	3.70	\$17,546
Mobilize/Demobilize Equipment for Pond Cleaning	MOBILIZE	1	3.70	\$1,709
Mobilize/Demobilize Equipment for Pond Removal	MOBILIZE	1	3.70	\$1,795

079	Mobilize/Demobilize Equipment for Site Maintenance	MOBILIZE	1	3.70	\$4,762
		<u>SUBTO</u>	TALS:	3946.48	\$5,453,607

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$110,163
Performance bond:	1.05	Total =	\$57,263
Job superintendent:	1,973.24	Total =	\$128,418
Profit:	10.00	Total =	\$545,361
		TOTAL O & P =	\$841,205
		CONTRACT AMOUNT (direct + O & P) =	\$6,294,812

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 4.25 3.58	Total = Total =	\$500 \$267,530 \$225,354
CONTINGENCY:	0.00	Total =	\$0
	ΤΟΤΑ	L INDIRECT COST =	\$1,334,589
TOTAL BO	ND AMOUN	T (direct + indirect) =	\$6,788,196

New Elk Mine	Permit Action:	RN8	Permit/Job#	t: <u>C1981012</u>
ROJECT IDENTIFICAT	ΓΙΟΝ			
Task #: 001 Date: 10/20/2023 User: AMG	State: Colorado County: Las Animas		Abbreviation: _ Filename: _	None 1
Agency or organization	on name: DRMS			
OURLY EQUIPMENT (<u>COST</u>			
Basic Machine: Cat D97	Г - 9SU			
Horsepower: 405	· · · ·			
Blade Type: Semi-U				
Attachment: <u>3-shank</u>				
Shift Basis: <u>1 per da</u> Data Source: (CRG)	ly			
<u> </u>				
ost Breakdown:	1	TT.111 .1		
Our analia Cont/II-	\$238.76	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$238.76	<u>NA</u> 100		
Ripper own.				
Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$8.98	100		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1	69.65 , 408.96	NA		
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE	69.65 , 408.96	NA		
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1	69.65 , 408.96	NA		
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850	69.65 , 408.96	NA		
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956	69.65 , 408.96	NA		
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125	69.65 , 408.96			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell	69.65 ,408.96 <u>CS</u> <u>LCY</u> <u>PAP Exhibit 28</u> Operator Estimate			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: 1 IOURLY PRODUCTION Average push distance:	69.65 ,408.96 <u>CS</u> <u>LCY</u> <u>PAP Exhibit 28</u> Operator Estimate <u>100 feet</u>			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: 1000000000000000000000000000000000000	69.65 ,408.96 CS LCY PAP Exhibit 28 Operator Estimate			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly	69.65 ,408.96 <u>CS</u> <u>LCY</u> <u>PAP Exhibit 28</u> <u>Operator Estimate</u> <u>100 feet</u> 1,243.2 LCY/hr			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descrip Average push 5 %	69.65 ,408.96 <u>CS</u> <u>LCY</u> <u>PAP Exhibit 28</u> Operator Estimate <u>100 feet</u> 1,243.2 LCY/hr otion: <u>Compacted fill or em</u>			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: 1 IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descrip Average push 5 % 5 % gradient: 5 %	69.65 ,408.96 <u>CS</u> <u>LCY</u> <u>PAP Exhibit 28</u> Operator Estimate <u>100 feet</u> 1,243.2 LCY/hr otion: <u>Compacted fill or em</u>			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descrip Average push 5 % gradient: 7,5	69.65 ,408.96 2S LCY PAP Exhibit 28 Operator Estimate 100 feet 1,243.2 LCY/hr otion: Compacted fill or eminal			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descrip Average push 5 % gradient: 7,5 Material weight: 2,1	69.65 ,408.96 2S LCY PAP Exhibit 28 Operator Estimate 100 feet 1,243.2 LCY/hr otion: Compacted fill or emine %			
Total unit Cost/Hour: \$4 Total Fleet Cost/Hour: \$1 IATERIAL QUANTITIE Initial Volume: 144,850 Swell factor: 1.125 Loose volume: 162,956 Source of estimated volume: Source of estimated swell factor: IOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency descrip Average push 5 % gradient: 7,5 Material weight: 2,1	69.65 ,408.96 2S LCY PAP Exhibit 28 Operator Estimate 100 feet 1,243.2 LCY/hr otion: Compacted fill or em % 500 feet 132 lbs/LCY ser Provided Dr			

Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	651.44 LCY/hr
Adjusted fleet production:	1954.32 LCY/hr

JOB TIME AND COST

Fleet size:	3 Dozer(s)
Unit cost:	\$0.721/LCY

Total job time:	83.38 Hours
Total job cost:	\$117,482

New Elk Mine	Po	ermit Action:	RN8	Permit/Jo	ob#: <u>C1981012</u>
ROJECT IDENTIFI	CATION				
Task #: 002 Date: 10/20/2023 User: AMG	State: County:	Colorado Las Animas		Abbreviation: Filename:	None 002
Agency or organ	ization name: <u>D</u>	RMS			
OURLY EQUIPME	NT COST				
	D9T - 9SU				
Horsepower: 405 Blade Type: Ser	ni-Universal				
Attachment: NA					
	er day				
Data Source: (CF					
ost Breakdown:	,				
Ownership Cost/Hour:		\$238.76	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own.		\$0.00	NA		
Cost/Hour:		\$0.00			
Ripper op. Cost/Hour:			0		
		C 11 20	3.7.4		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$442.35 \$1,327.06	\$41.30	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: <u>13,2</u> Swell factor: <u>1.00</u>	\$1,327.06 ITIES 50 0	\$41.30			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: <u>13,2</u> Swell factor: <u>1.00</u>	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0	 5-4a Table 18a.	NA Push to conveyor		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu Source of estimated swe actor:	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 11 Cat Han-	 5-4a Table 18a.			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu Source of estimated swe	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 11 Cat Han-	 5-4a Table 18a. dbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu 50 Source of estimated swe 3 Cource of estimated swe 3 Average push distance: 1 Jnadjusted hourly 3	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 Cat Han TION 400 feet 305.6 LCY	 5-4a Table 18a. dbook	Push to conveyor		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu 50 Source of estimated swe 50 Cource of estimated swe 50 OURLY PRODUCT 100 Average push distance: 100 Jnadjusted hourly 50 Orduction: 100 Materials consistency 100	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 Cat Han TION 400 feet 305.6 LCY	5-4a Table 18a. dbook	Push to conveyor		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu 50 Source of estimated volu 50 Source of estimated swe 60 Cource of estimated swe 60 Source of estimated swe 60 Cource of estimated swe 60 Source of estimated swe 60 Cource of estimated swe 60 Source of estimated swe 60	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 Cat Hand 	5-4a Table 18a. dbook	Push to conveyor		
Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu 50 Source of estimated volu 50 Source of estimated swe 50 COURLY PRODUCT 10 Average push distance: 10 Jnadjusted hourly 50 oroduction: 10 Materials consistency 10 Average push 10	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 11 Cat Han TION 400 feet 305.6 LCY Partly 0 %	5-4a Table 18a. dbook	Push to conveyor		
Total unit Cost/Hour: Total Fleet Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 13,2 Swell factor: 1.00 Loose volume: 13,2 Source of estimated volu 13,2 Source of estimated volu Source of estimated swe Source of estimated swe Source: OURLY PRODUCT Average push distance: Jnadjusted hourly Source Vorduction: Materials consistency Average push Steription: Average push Steription: Average site altitude: Steription:	\$1,327.06 ITIES 50 0 50 LCY Ime: PAP 2.0 11 Cat Han TON 400 feet 305.6 LCY Partly 0 % 7,000 feet		Push to conveyor		

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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)

Adjusted unit production:	361.10 LCY/hr
Adjusted fleet production:	1083.3 LCY/hr

JOB TIME AND COST

Fleet size:	3 Dozer(s)
Unit cost:	\$1.225/LCY

 Total job time:
 12.23 Hours

 Total job cost:
 \$16,231

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New Elk Mine	Permit Action:	RN8	Permit/Jo	ob#: C1981012
<u>ROJECT IDENTIFI</u>	<u>CATION</u>			
Task #: 003	State: Colorado		Abbreviation:	None
Date: 10/20/2023	3 County: Las Animas		Filename:	3
User: AMG				
Agency or organ	nization name: DRMS			
OURLY EQUIPME	<u>NT COST</u>			
Basic Machine: Cat	t D9T - 9SU			
Horsepower: 405				
<i>v</i> 1	ni-Universal			
	hank ripper			
	er day			
Data Source: (CH	RG)			
ost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$238.76	NA		
Operating Cost/Hour:	\$162.29	100		
Ripper own. Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$8.98	100		
		100		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: [ATERIAL OUANT]	\$41.30 \$469.65 \$469.65 ITIES	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>3,84</u> Swell factor: <u>1.12</u>	\$469.65 \$469.65 ITIES 0 5			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>3,84</u> Swell factor: <u>1.12</u>	\$469.65 \$469.65 <u>ITIES</u> 0	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>3,84</u> Swell factor: <u>1.12</u>	\$469.65 \$469.65 ITIES 0 5 0 LCY Ime: Division of Reclamation			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu Source of estimated swe	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation II Cat Handbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu Source of estimated swe factor: 1 OURLY PRODUCT 1	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Cat Handbook YION			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu Source of estimated swe factor:	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation II Cat Handbook			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation Cat Handbook ION 125 feet	, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu 50 Source of estimated swe 6 factor: 0 OURLY PRODUCT 4 Average push distance: 0 Unadjusted hourly 0 production: 0 Materials consistency 0 description: 0 Average push 0 Average push 0 materials consistency 0 materials 0 materials </td <td>\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Cat Handbook III Item 125 feet 1,055.6 LCY/hr Compacted fill or emb 5 %</td> <td>, Mining & Safety</td> <td></td> <td></td>	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Cat Handbook III Item 125 feet 1,055.6 LCY/hr Compacted fill or emb 5 %	, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu Source of estimated swe factor: 0URLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push	\$469.65 \$469.65 ITIES 0 5 0 LCY ame: Division of Reclamation dl Cat Handbook III Cat Handbook III I25 feet 1,055.6 LCY/hr Compacted fill or emb	, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu 50 Source of estimated swe 6 factor: 0 OURLY PRODUCT 4 Average push distance: 0 Unadjusted hourly 0 production: 0 Materials consistency 0 description: 0 Average push 0 Average push 0 materials consistency 0 materials 0 materials </td <td>\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Cat Handbook III Item 125 feet 1,055.6 LCY/hr Compacted fill or emb 5 %</td> <td>, Mining & Safety</td> <td></td> <td></td>	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Cat Handbook III Item 125 feet 1,055.6 LCY/hr Compacted fill or emb 5 %	, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 3,84 Swell factor: 1.12 Loose volume: 4,32 Source of estimated volu 5000000000000000000000000000000000000	\$469.65 \$469.65 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Cat Handbook ION 125 feet 1,055.6 LCY/hr Compacted fill or emb 5 % 7,500 feet	, Mining & Safety		

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	553.13 LCY/hr
Adjusted fleet production:	553.13 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.849/LCY

 Total job time:
 7.81 Hours

 Total job cost:
 \$3,668

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New Elk Mine	Permit Action:	RN8	Permit/Jo	ob#: C1981012
			1 01111000	
ROJECT IDENTIFI	<u>CATION</u>			
Task #: 004	State: Colorado		Abbreviation:	None
Date: 10/20/2023	B County: Las Animas		Filename:	4
User: AMG				
Agency or organ	ization name: DRMS			
OURLY EQUIPME				
Horsepower: 405	<u>D9T - 9SU</u>			
1	ni-Universal			
<i>•</i> 1	hank ripper			
	er day			
1	RG)			
	/			
ost Breakdown:		TT4:1:0/		
Ownership Cost/Usur	\$238.76	<u>Utilization %</u> NA		
Ownership Cost/Hour: Operating Cost/Hour:	\$162.29	100		
Ripper own.				
Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$460.67 \$460.67			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: <u>6,16</u> Swell factor: <u>1.12</u>	\$460.67 ITIES 0 5			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: <u>6,16</u> Swell factor: <u>1.12</u>	\$460.67 ITIES 0			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: <u>6,16</u> Swell factor: <u>1.12</u>	\$460.67 ITIES 0 5 0 LCY Ime: Division of Reclamation			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu Source of estimated swe	\$460.67 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Operator Estimate			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu 5000000000000000000000000000000000000	\$460.67 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Operator Estimate			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu Source of estimated swe Sactor: OURLY PRODUCT Average push distance:	\$460.67 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Operator Estimate Operator Estimate 21ON 75 feet			
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu 5000000000000000000000000000000000000	\$460.67 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Operator Estimate Operator Estimate 21ON 75 feet	., Mining & Safety		
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu 6,93 Source of estimated volu Source of estimated swe Source of estimated swe Source OURLY PRODUCT Average push distance: Unadjusted hourly Source Materials consistency Staterials consistency Average push Staterials	\$460.67 ITIES 0 5 0 LCY ume: Division of Reclamation 11 Operator Estimate TON 10 75 feet 1,514.3 LCY/hr	., Mining & Safety		
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu 5000000000000000000000000000000000000	\$460.67 ITIES 0 5 0 LCY ume: Division of Reclamation III Operator Estimate 'ION 'ION 75 feet 1,514.3 LCY/hr Compacted fill or eml	., Mining & Safety		
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu 6,93 Source of estimated volu 50 Source of estimated swe 6,16 Source of estimated volu 6,93 Source of estimated swe 6,93 Source of estimated swe 6,93 Source of estimated swe 6,93 Source of estimated volu 50 Source of estimated volu 50 Source of estimated swe 6,93 Source of estimated volu 50 Source of estimated volu 50 Source of estimated swe 50 Source of estimated swe 50 OURLY PRODUCT 40 Average push distance: 50 Unadjusted hourly 50 Sourcial consistency 60 Sourcial consistency 60	\$460.67 ITIES 0	., Mining & Safety		
Fotal Fleet Cost/Hour: ATERIAL QUANT Initial Volume: 6,16 Swell factor: 1.12 Loose volume: 6,93 Source of estimated volu 6,93 Source of estimated volu 50 Source of estimated swe 6,04 Source of estimated swe 50 COURLY PRODUCT Average push distance: Unadjusted hourly 50 Ource of estimated nourly 50 Average push distance: 9 Materials consistency 1 Average push 1 Average push 1 Average site altitude: 1	\$460.67 ITIES 0 5 0 LCY Ine: Division of Reclamation 11 Operator Estimate ION ION 75 feet 1,514.3 LCY/hr Compacted fill or eml 5 % 7,500 feet	., Mining & Safety		

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	793.49 LCY/hr
Adjusted fleet production:	793.49 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.581/LCY

Total job time:	8.73 Hours
Total job cost:	\$4,023

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	D	πλιο		1001012
New Elk Mine	Permit Action:	KIN8	Permit/Job#: C	1981012
ROJECT IDENTIFI	CATION			
Task #: 005	State: Colorado		Abbreviation: None	
Date: 10/20/2023	County: Las Animas		Filename: 5	
User: AMG				
Agency or organ	nization name: DRMS			
OURLY EQUIPME	NT COST			
Basic Machine: Cat	: D9T - 9SU			
Horsepower: 405				
	ni-Universal			
	hank ripper			
	er day			
Data Source: (CF	RG)			
ost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$238.76	NA		
Operating Cost/Hour:	\$162.29	100		
Ripper own. Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total Fleet Cost/Hour:	\$460.67 \$460.67			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: [ATERIAL QUANT] Initial Volume: <u>9,12</u> Swell factor: 1.12	\$460.67 ITIES 0			
Total Fleet Cost/Hour: [ATERIAL QUANT] Initial Volume: 9,12 Swell factor: 1.12	\$460.67 ITIES 0			
Total Fleet Cost/Hour: [ATERIAL QUANT] Initial Volume: 9,12 Swell factor: 1.12	\$460.67 ITIES 0 5 60 LCY ume: Division of Reclamation	, Mining & Safety		
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT	\$460.67 ITIES 0 5 60 LCY ume: Division of Reclamation 11 Cat Handbook TION	, Mining & Safety		
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu Source of estimated swe factor:	\$460.67 ITIES 0 5 60 LCY ame: Division of Reclamation 11 Cat Handbook	, Mining & Safety 		
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly	\$460.67 ITIES 0 5 60 LCY ume: Division of Reclamation 11 Cat Handbook 'ION 150 feet			
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu 5000000000000000000000000000000000000	\$460.67 ITIES 0 5 60 LCY ume: Division of Reclamation 11 Cat Handbook ION ION 150 feet 910.5 LCY/hr Compacted fill or emb 5 %			
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu Source of estimated swe Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push factor:	\$460.67 ITIES 0 5 60 LCY ume: Division of Reclamation 11 Cat Handbook 'ION 'ION			
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu 5000000000000000000000000000000000000	\$460.67 ITIES 0 5 60 LCY ume: Division of Reclamation 11 Cat Handbook ION ION 150 feet 910.5 LCY/hr Compacted fill or emb 5 %			
Total Fleet Cost/Hour: Initial Volume: 9,12 Swell factor: 1.12 Loose volume: 10,2 Source of estimated volu 5000000000000000000000000000000000000	\$460.67 ITIES 0 5 60 LCY ame: Division of Reclamation 11 Cat Handbook ION ION 150 feet 910.5 LCY/hr Compacted fill or emb 5 % 7,500 feet			

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5240

Adjusted unit production:	477.10 LCY/hr
Adjusted fleet production:	477.1 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.966/LCY

Total job time:21.50 HoursTotal job cost:\$9,907

New Elk Mine	Permit Action	n:RN8	Permit/Jo	ob#: <u>C1981012</u>
ROJECT IDENTIFI	CATION			
Task #: 006	State: Colorado)	Abbreviation:	None
Date: 10/20/2023			Filename:	006
User: AMG				
Agency or organ	nization name: DRMS			
OURLY EQUIPME	<u>NT COST</u>			
	2 D9T - 9SU			
Horsepower: 405				
	ni-Universal			
	hank ripper			
	er day			
Data Source: (CI	RG)			
ost Breakdown:		TT/11 / 0/		
Ownership Cast/Harry	\$238.76	Utilization %		
Ownership Cost/Hour: Operating Cost/Hour:	\$162.29	NA 100		
Ripper own.				
Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$4.49	50		
Operator Cost/Hour:	\$41.30	NA		
Total Fleet Cost/Hour:	\$465.16			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12	1TIES 00 5			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12	ITIES 00			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12	ITIES 00 5 38 LCY 1me: Division of Reclama	ation, Mining & Safety		
Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu Source of estimated swe factor:	ITIES 00 5 38 LCY ume: Division of Reclama 11 Operator Estimate	ation, Mining & Safety		
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT	ITIES 00 5 38 LCY ume: Division of Reclama 11 Operator Estimate TION	ation, Mining & Safety		
Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu Source of estimated swe factor:	ITIES 00 5 38 LCY ume: Division of Reclama 11 Operator Estimate	ation, Mining & Safety		
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly	ITIES 00 5 38 LCY ume: Division of Reclama 11 Operator Estimate 'ION 125 feet			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu 31,8 Source of estimated volu Source of estimated swe factor: 0URLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push	ITIES 00 5 38 LCY ame: Division of Reclama 11 Operator Estimate YION 125 feet 1,055.6 LCY/hr			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu 31,8 Source of estimated volu Source of estimated swe factor: 0URLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: 1.12	ITIES 00 5 38 LCY ume: Division of Reclama 11 Operator Estimate			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu 31,8 Source of estimated volu Source of estimated swe factor: 0URLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push Average push gradient:	ITIES 00 5 38 LCY ume: Division of Reclama 11 Operator Estimate Operator Estimate TION Compacted fill or 10 %			
IATERIAL QUANT Initial Volume: 28,3 Swell factor: 1.12 Loose volume: 31,8 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: Average site altitude:	$ \begin{array}{r} \textbf{ITIES} \\ 00 \\ 5 \\ \textbf{38 LCY} \\ \textbf{ime:} \\ \textbf{Division of Reclama} \\ \textbf{Operator Estimate} \\ \hline \\ \textbf{UON} \\ \hline \\ \textbf{10 \%} \\ \hline \\ 10 \% \\ \hline \hline \\ \textbf{7,500 feet} \\ \end{array} $			

Operator Skille	0.900	$(A \mathbf{P} A \mathbf{V} \mathbf{C})$
Operator Skill:		(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4561

Adjusted unit production:	481.46 LCY/hr
Adjusted fleet production:	481.46 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.966/LCY

Total job time:	66.13 Hours
Total job cost:	\$30,760

New Elk Mine	Permit Ac	ction: <u>RN8</u>	Permit/	Job#: <u>C1981012</u>
ROJECT IDENTIFI	CATION			
Task #: 007 Date: 10/20/2023 User: AMG	State: Colo County: Las A	rado Animas	Abbreviation Filename	
Agency or organ	ization name: DRMS			
OURLY EQUIPME	<u>NT COST</u>			
	D9T - 9SU			
Horsepower: 405				
<i>•</i> 1	ni-Universal			
	hank ripper			
	er day			
Data Source: (CR	(U)			
st Breakdown:				
		Utilizatio	on %	
Ownership Cost/Hour:	\$238			
Operating Cost/Hour:	\$162			
Ripper own.	\$18			
Cost/Hour: Ripper op. Cost/Hour:		.00 0		
Operator Cost/Hour:	\$41			
operator costribui.	φ+1	.50 NA		
Total unit Cost/Hour:	\$460.67			
Total Fleet Cost/Hour:	\$460.67			
Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12	\$460.67			
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75	\$460.67 [TIES 0 5 8 LCY	amation. Mining & S	afety	
Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu Source of estimated swell	\$460.67 [TIES 0 5 8 LCY une: Division of Recl	amation, Mining & S te	afety	
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu Source of estimated swell Source of estimated swell Source of estimated swell	\$460.67 (TIES) 0 5 8 LCY ume: Division of Recl II Operator Estima		afety	
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu 3,75	\$460.67 (TIES) 0 5 8 LCY ume: Division of Recl II Operator Estima		afety	
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu Source of estimated swell Source of estimated swell Source of estimated swell	\$460.67 (TIES) 0 5 8 LCY ume: Division of Recl II Operator Estima		afety	
Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Cource of estimated swell 3,75 Average push distance: 3,75 Jnadjusted hourly 3,75	\$460.67 ITIES 0 5 8 LCY Ime: Division of Recl 0 0 5 8 LCY Ime: Division of Recl Operator Estima ION 100 feet 1,243.2 LCY/hr		afety	_
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Average push distance: 3,75 Juadjusted hourly 3,75 Materials consistency 3,75 Average push 3,75	\$460.67 ITIES 0 5 8 LCY Ime: Division of Recl 0 0 5 8 LCY Ime: Division of Recl Operator Estima ION 100 feet 1,243.2 LCY/hr	te	afety	_
Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Average push distance: 3,75 Jnadjusted hourly 3,75 Materials consistency 3,75 Jescription: 3,75	\$460.67 ITIES 0 5 8 LCY Imme: Division of Recl 0 0 5 8 LCY Imme: 100 perator Estimation 100 feet 1,243.2 LCY/hr Compacted fil	te	afety	_
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Source of estimated swell 3,75 Source of estimated swell 3,75 Average push distance: 3,75 Juadjusted hourly 5 Sourcion: 4 Materials consistency 3 Average push 3 Average push 3 Sourcion: 3	\$460.67 ITIES 0 5 8 LCY me: Division of Recl II Operator Estima ION 100 feet 1,243.2 LCY/hr Compacted fil 0 %	te	afety	
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 3,34 Swell factor: 1.12 Loose volume: 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Source of estimated swell 3,75 Source of estimated swell 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Source of estimated swell 3,75 Source of estimated volu 3,75 Source of estimated swell 3,75 Average push distance: 3,75 Average push gradient: 3,75 Average site altitude: 3,75	\$460.67 ITIES 0 5 8 LCY ume: Division of Recl II Operator Estimation ION ION	te	afety	

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)
-		

0.0901

Adjusted unit production:	865.76 LCY/hr
Adjusted fleet production:	865.76 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.532/LCY

Total job time:4.34 HoursTotal job cost:\$1,999

	B	nes at West Portal		
New Elk Mine	Permit Actio	on: RN8	Permit/Job	o#: <u>C1981012</u>
ROJECT IDENTIFI	<u>CATION</u>			
Task #: 008	State: Colorad	lo	Abbreviation:	None
Date: 10/20/2023	B County: Las Ani	mas	Filename:	8
User: AMG				
Agency or organ	ization name: DRMS			
OURLY EQUIPME	NT COST			
	D9T - 9SU			
Horsepower: 405				
<i>v</i> 1	ni-Universal			
Attachment: NA				
	er day			
Data Source: (CR	(0)			
ost Breakdown:		1		
·		Utilization %		
Ownership Cost/Hour:	\$238.76			
Operating Cost/Hour:	\$162.29	9 100		
Ripper own. Cost/Hour:	\$0.00			
Ripper op. Cost/Hour:	\$0.00			
Operator Cost/Hour:	\$41.30) NA		
Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 217 Swell factor: 1.12				
Loose volume: 244				
Source of estimated volu Source of estimated swell		9B		
OURLY PRODUCT	ION			
Average push distance: Jnadjusted hourly production:	75 feet 1,514.3 LCY/hr			
Materials consistency lescription:	Compacted fill o	r embankment 0.9		
Average push gradient:	5 %			
Average site altitude:	7,500 feet			
Average site annual.				
Material weight:	2,132 lbs/LCY			
-	2,132 lbs/LCY User Provided			

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	0.800	(POOR)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	666.59 LCY/hr
Adjusted fleet production:	666.59 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.664/LCY

Total job time:0.37 HoursTotal job cost:\$162

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New Elk Mine	Permit Action	: RN8	Permit/Jo	b#: <u>C1981012</u>
ROJECT IDENTIFI	<u>CATION</u>			
Task #: 009 Date: 10/20/2023 User: AMG	State: Colorado County: Las Anim		Abbreviation: Filename:	None 8
Agency or organ	nization name: DRMS			
OURLY EQUIPME	NT COST			
Horsepower: 405	D9T - 9SU 5 ni-Universal			
Attachment: 3-sl Shift Basis: 1 p	hank ripper er day			
Data Source: (CF	(G)			
Ownership Cost/Hour:	\$238.76	Utilization % NA		
Operating Cost/Hour:	\$162.29	100		
Ripper own. Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$8.98	100		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$469.65 \$1,408.96			
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>1,40</u> Swell factor: <u>1.12</u>	\$1,408.96 ITIES 0			
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>1,40</u> Swell factor: <u>1.12</u>	\$1,408.96 <u>ITIES</u> 0 5 5 5 <u>5</u> LCY ume:Division of Reclama	tion, Mining & Safety		
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe	\$1,408.96 ITIES 0 5 5 LCY ume: Division of Reclama 11 Operator Estimate	tion, Mining & Safety		
Total Fleet Cost/Hour: Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor: 1	\$1,408.96 ITIES 0 5 5 LCY ume: Division of Reclama 11 Operator Estimate	 tion, Mining & Safety		
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor: 1 OURLY PRODUCT Average push distance: Unadjusted hourly 1	\$1,408.96 ITIES 0 5 5 LCY ame: Division of Reclama 11 Operator Estimate Operator Estimate YION 100 feet			
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient:	\$1,408.96 ITIES 0 5 5 LCY ume: Division of Reclama 11 Operator Estimate Operator Estimate 100 feet 1,243.2 LCY/hr Compacted fill or 10 %			
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor: 1,57 OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push Average push	\$1,408.96 ITIES 0 5 5 5 LCY ume: Division of Reclama Operator Estimate Operator Estimate 100 feet 1,243.2 LCY/hr Compacted fill or			
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient:	\$1,408.96 ITIES 0 5 5 LCY ume: Division of Reclama 11 Operator Estimate Operator Estimate 100 feet 1,243.2 LCY/hr Compacted fill or 10 %			
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: Average site altitude: Average site altitude:	\$1,408.96 ITIES 0 5 5 LCY Inte: Division of Reclama 11 Operator Estimate ION 100 feet 1,243.2 LCY/hr Compacted fill or 10 % 7,500 feet			

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	567.02 LCY/hr
Adjusted fleet production:	1701.06 LCY/hr

JOB TIME AND COST

Fleet size:	3 Dozer(s)
Unit cost:	\$0.828/LCY

Total job time:	0.93 Hours
Total job cost:	\$1,305

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New Elk Mine	Pern	nit Action: _	RN8	Permit/Jo	ob#: <u>C1981012</u>
ROJECT IDENTIFI	CATION				
Task #: 010	State:	Colorado		Abbreviation:	None
Date: 10/20/202		Las Animas		Filename:	10
User: AMG					
Agency or organ	nization name: DRM	ЛS			
OURLY EQUIPME	<u>NT COST</u>				
Basic Machine: Cat	t D9T - 9SU				
Horsepower: 405	5				
<i>v</i> 1	ni-Universal				
	hank ripper				
	er day				
Data Source: (Cl	RG)				
ost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$238.76	NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own. Cost/Hour:		\$18.32	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	274		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$460.67 \$921.34	\$41.50	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>1,40</u> Swell factor: <u>1.12</u>	\$921.34 ITIES 00 .5	941.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>1,40</u> Swell factor: <u>1.12</u>	\$921.34 ITIES 00 25 5 5 1 CY				
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>1,40</u> Swell factor: <u>1.12</u>	\$921.34 ITIES 00 25 25 LCY ume: Division of	? Reclamation	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor:	\$921.34 ITIES 00 25 25 LCY ume: Division of ell Operator E	? Reclamation			
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT	\$921.34 ITIES 00 25 25 LCY ume: Division of 0perator E IDN	? Reclamation			
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor:	\$921.34 ITIES 00 25 25 LCY ume: Division of ell Operator E	² Reclamation stimate			
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1,12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly	\$921.34 ITIES 100 155 25 LCY ume: Division of Operator E 100 100 feet 1,243.2 LCY	F Reclamation stimate			
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volt Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency	\$921.34 ITIES 100 155 25 LCY ume: Division of Operator E 100 100 feet 1,243.2 LCY	F Reclamation stimate	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volu Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push	\$921.34 ITIES 00 25 25 25 25 26 275 LCY ume: Division of Operator E	F Reclamation stimate	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated voluce Source of estimated voluce Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient:	\$921.34 ITIES 10 25 25 25 25 25 25 26 27 Division of Operator E	F Reclamation stimate	n, Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.12 Loose volume: 1,57 Source of estimated volt Source of estimated volt Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: Average site altitude:	\$921.34 ITIES 100 25 25 25 25 25 25 25 25 25 26 27 Division of Operator E 100 100 10% 7,500	F Reclamation stimate	n, Mining & Safety		

	0.000	(AD AVC)
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4561

Adjusted unit production:	567.02 LCY/hr
Adjusted fleet production:	1134.04 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.812/LCY

Total job time:	1.39 Hours
Total job cost:	\$1,280

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New Elk Mine	Р	ermit Action: R	N8	Permit/Jo	b#: C1981012
	*				
ROJECT IDENTIFI	ICATION				
Task #: 011	State:	Colorado		Abbreviation:	None
Date: 10/20/202	3 County:	Las Animas		Filename:	11
User: AMG					
Agency or organ	nization name: D	RMS			
8, 8					
OURLY EQUIPME	NT COST				
Basic Machine: Ca	t D9T - 9SU				
Horsepower: 40:					
1	mi-Universal				
<i>•</i> 1	hank ripper				
	ber day				
Data Source: (Cl	RG)				
ost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:		\$238.76	NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own. Cost/Hour:		\$18.32	NA		
			0		
Ripper on Cost/Hour		\$0.00	0		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$460.67 \$921.34	\$0.00 \$41.30	0 NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u>	\$921.34 ITIES 000 25				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u>	\$921.34 ITIES 000				
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u>	\$921.34 ITIES 000 25 375 LCY ume: Divisior		NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 39,0 Swell factor: 1.12 Loose volume: 43,8 Source of estimated volu Source of estimated swe factor:	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u> Loose volume: <u>43,8</u> Source of estimated volt Source of estimated swe factor: OURLY PRODUCT	\$921.34 ITIES 000 25 875 LCY ume: Division ell Operato FION	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u> Loose volume: <u>43,8</u> Source of estimated volt Source of estimated volt Source of estimated swe factor: OURLY PRODUCT Average push distance:	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato FION 100 feet	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u> Loose volume: <u>43,8</u> Source of estimated volt Source of estimated swe factor: OURLY PRODUCT	\$921.34 ITIES 000 25 875 LCY ume: Division ell Operato FION	\$41.30	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: INITIAL QUANT Initial Volume: 39,0 Swell factor: 1.12 Loose volume: 43,8 Source of estimated volu- Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato FION 100 feet 1,243.2 L0	\$41.30	NA 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 39,0 Swell factor: 1.12 Loose volume: 43,8 Source of estimated volu- Source of estimated volu- Source of estimated sweet factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato FION 100 feet 1,243.2 L0	\$41.30 	NA 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>39,0</u> Swell factor: 1.12 Loose volume: <u>43,8</u> Source of estimated volu- Source of estimated volu- Source of estimated sweet factor: COURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient:	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato	\$41.30 	NA 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 39,0 Swell factor: 1.12 Loose volume: 43,8 Source of estimated volu- Source of estimated volu- Source of estimated sweet factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push	\$921.34 ITIES 000 25 375 LCY ume: Division Operato Ell Operato IO0 feet 1,243.2 L0 Comp	\$41.30 	NA 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>39,0</u> Swell factor: 1.12 Loose volume: <u>43,8</u> Source of estimated volu- Source of estimated volu- Source of estimated sweet factor: COURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient:	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato	\$41.30 	NA 		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: <u>39,0</u> Swell factor: <u>1.12</u> Loose volume: <u>43,8</u> Source of estimated volt Source of estimated swe factor: OURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: Average site altitude:	\$921.34 ITIES 000 25 375 LCY ume: Division ell Operato FION 100 feet 1,243.2 L0 Comp 10 % 7,500 feet	\$41.30 	NA 		

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	567.02 LCY/hr
Adjusted fleet	

Adjusted fleet **1134.04** LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.812/LCY

Total job time:	38.69 Hours
Total job cost:	\$35,646
Task # 001

Task description:	Regrade Areas fr	om MR-99, M	R-107, MR-111, M	R-114	
e: New Elk Mine	Perr	mit Action: <u>R</u>	N8	Permit/Jo	b#: <u>C1981012</u>
PROJECT IDENTIFI	CATION				
Task #: 012 Date: 10/20/2023 User: AMG	State: County:	Colorado Las Animas		Abbreviation: Filename:	None 12
Agency or organ	ization name: DRM	MS			
HOURLY EQUIPME	NT COST				
Horsepower: 405	D9T - 9SU ni-Universal				
Attachment: NA					
Shift Basis: <u>1 pe</u> Data Source: (CR	er day (G)				
Cost Breakdown:					
Ownership Cost/Hour:		\$238.76	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own.		\$0.00	NA		
Cost/Hour: Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Total Fleet Cost/Hour: <u>MATERIAL QUANTI</u> Initial Volume: <u>5,530</u> Swell factor: <u>1.122</u> Loose volume: 6,22	6				
Source of estimated volu Source of estimated swel factor:	me: Exhibit 28		4" "topsoil materia]"	
HOURLY PRODUCT	ION				
Average push distance: Unadjusted hourly production:	60 feet 1,872.0 LCY	/hr			
Materials consistency description:	Loose st	ockpile 1.2			
Average push gradient: Average site altitude:	0 % 7,400 feet	_			
Material weight:	2,132 lbs/LCY			_	
Weight description:	User Provided				

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7738

Adjusted unit production:	1,448.55 LCY/hr
Adjusted fleet production:	4345.65 LCY/hr

JOB TIME AND COST

Fleet size:	3 Dozer(s)
Unit cost:	\$0.305/LCY

Total job time:	1.43 Hours
Total job cost:	\$1,902

New Elk Mine	P	ermit Action:	RN8	Permit/Jo	ob#: C1981012
		-			
ROJECT IDENTIFI					
Task #: 013	State:	Colorado		Abbreviation:	None
Date: $10/20/2022$	3 County:	Las Animas	8	Filename:	13
User: AMG					
Agency or organ	nization name: D	RMS			
OURLY EQUIPME	NT COST				
	t D9T - 9SU				
Horsepower: 405					
1	mi-Universal				
Attachment: NA					
	ber day				
1	RG)				
ost Breakdown:		1			
0 11 0			<u>Utilization %</u>		
Ownership Cost/Hour:		\$238.76	NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own.		\$0.00	NA		
Cost/Hour:		\$0.00			
Ripper op. Cost/Hour:		\$0.00	0		
0 · · · / II		\$ 11 3 6			
Total Fleet Cost/Hour:	\$442.35 \$442.35	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 264 Swell factor: 1.25	\$442.35 ITIES 50	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 264 Swell factor: 1.25	\$442.35 ITIES	\$41.30	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swe factor:	\$442.35 ITIES 50 LCY ume: Division ell Operator		NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swe factor:	\$442.35 ITIES 50 LCY ume: Division ell Operator CION	 of Reclamatic			
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance:	\$442.35 ITIES 50 LCY ume: Division ell Operator FION 50 feet	of Reclamatic r Estimate			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swe factor:	\$442.35 ITIES 50 LCY ume: Division ell Operator CION	of Reclamatic r Estimate			
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly	\$442.35 ITIES 50 LCY ume: Division Operator CION 50 feet 2,110.5 LC	of Reclamatic r Estimate	 on, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swefactor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description:	\$442.35 ITIES 50 LCY ume: Division Operator CION 50 feet 2,110.5 LC Partly	of Reclamatic r Estimate	 on, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push	\$442.35 ITIES 50 LCY ume: Division Operator CION 50 feet 2,110.5 LC	of Reclamatic r Estimate	 on, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swefactor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description:	\$442.35 ITIES 50 LCY ume: Division Operator CION 50 feet 2,110.5 LC Partly	of Reclamatic r Estimate	 on, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated voluce 330 Source of estimated voluce 64 Source of estimated voluce 330 Source of estimated voluce 300 Source of estimated voluce 330 Source of estimated voluce 300 Source of estimated sweet 1.25 Average push distance: 1.25 Unadjusted hourly 1.25 Materials consistency 1.25 Average push 1.25 Average push 1.25 Average push 1.25 Average push 1.25	\$442.35 ITIES 50 LCY ume: Division Operator CION 50 feet 2,110.5 LC Partly 5 %	of Reclamatic r Estimate	 on, Mining & Safety 		
Total unit Cost/Hour: Total Fleet Cost/Hour: Initial Volume: 264 Swell factor: 1.25 Loose volume: 330 Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: Average site altitude:	\$442.35 ITIES 50 LCY ume: Division Operator Ell 50 feet 2,110.5 LC Partly 5 % 7,500 feet	of Reclamatic r Estimate	 on, Mining & Safety 		

Task # 001

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.119	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6642

Adjusted unit production:	1,401.79 LCY/hr
Adjusted fleet production:	1401.79 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.316/LCY

Total job time:0.24 HoursTotal job cost:\$104

	п	mait A ations D	NIO	D:4/T	h#. C1001012
New Elk Mine	Pe	rmit Action: R	INŎ	Permit/Jo	b#: <u>C1981012</u>
ROJECT IDENTIFI	CATION				
Task #: 014	State:	Colorado		Abbreviation:	None
Date: $10/20/2023$		Las Animas		Filename:	14
User: AMG					
A gener or organ	nization name: DF	PMS			
Agency of organ					
OURLY EQUIPME	NT COST				
Basic Machine: Cat	: D9T - 9SU				
Horsepower: 405					
<i>v</i> 1	ni-Universal				
	hank ripper				
	er day				
Data Source: (CR	(G)				
ost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$238.76	NA		
Operating Cost/Hour:		\$162.29	100		
Ripper own. Cost/Hour:		\$18.32	NA		
Ripper op. Cost/Hour:		\$8.98	100		
Operator Cost/Hour:		\$41.30			
Operator Cost/Hour:		\$41.50	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$469.65 \$939.30		-		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.12	\$939.30 ITIES 6 5		-		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.12	\$939.30 <u>ITIES</u> 6		-		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu	\$939.30 ITIES 6 5 8 LCY Ime: Division		Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu Source of estimated swell	\$939.30 ITIES 6 5 8 LCY Ime: Division		-		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,934 Swell factor: 1.122 Loose volume: 2,175	\$939.30 ITIES 6 5 8 LCY Ime: Division		-		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,934 Swell factor: 1.122 Loose volume: 2,174 Source of estimated volu Source of estimated swell Sactor:	\$939.30 <u>ITIES</u> 6 5 8 LCY ume: Division 11 Operator		-		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu Source of estimated swell	\$939.30 <u>ITIES</u> 6 5 8 LCY ume: Division 11 Operator		-		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,934 Swell factor: 1.122 Loose volume: 2,174 Source of estimated volu Source of estimated swell Sactor:	\$939.30 <u>ITIES</u> 6 5 8 LCY ume: Division 11 Operator		-		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu Source of estimated swell Source of estimated swell Source OURLY PRODUCT Average push distance: Jnadjusted hourly Source	\$939.30 ITIES 6 5 8 LCY ame: Division 11 Operator Y YON	Estimate	-		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,176 Source of estimated volu Source of estimated volu Source of estimated swell Source OURLY PRODUCT Average push distance:	\$939.30 ITIES 6 5 8 LCY Ime: Division 11 Operator YION 200 feet	Estimate	-		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu Source of estimated swell Source of estimated swell Source OURLY PRODUCT Average push distance: Jnadjusted hourly Source	\$939.30 ITIES 6 5 8 LCY Ime: Division 11 Operator TION 200 feet 700.0 LCY	Estimate	Mining & Safety		
Fotal unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,172 Source of estimated volu 2,172 Source of estimated volu Source of estimated volu Cource of estimated swell 3 Average push distance: Jnadjusted hourly Oroduction: Materials consistency Materials consistency 1	\$939.30 ITIES 6 5 8 LCY Ime: Division 10 200 feet 700.0 LCY Compa	Estimate /hr	Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,93 Swell factor: 1.12 Loose volume: 2,173 Source of estimated volu 2,174 Source of estimated volu 3 Cource of estimated volu 3 Source of estimated swell 3 Average push distance: 3 Jnadjusted hourly 3 Oroduction: 3 Materials consistency 4 Average push 4	\$939.30 ITIES 6 5 8 LCY Ime: Division 11 Operator TION 200 feet 700.0 LCY	Estimate /hr	Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,93 Swell factor: 1.12 Loose volume: 2,174 Source of estimated volu 2,174 Source of estimated volu 3 Cource of estimated volu 3 Source of estimated swell 3 Average push distance: 3 Jnadjusted hourly 3 oroduction: 3 Materials consistency 4 Average push 4	\$939.30 ITIES 6 5 8 LCY Ime: Division 11 Operator 	Estimate /hr	Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,93 Swell factor: 1.12 Loose volume: 2,173 Source of estimated volu 2,174 Source of estimated volu 3 Cource of estimated volu 3 Source of estimated swell 3 Average push distance: 3 Jnadjusted hourly 3 Oroduction: 3 Materials consistency 4 Average push 4	\$939.30 ITIES 6 5 8 LCY Ime: Division 10 200 feet 700.0 LCY Compa	Estimate /hr	Mining & Safety		
Total unit Cost/Hour: Total Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu 2,173 Source of estimated volu Source of estimated swell Source of estimated swell Source OURLY PRODUCT Average push distance: Jnadjusted hourly Dorduction: Materials consistency Iescription: Average push gradient: Average site altitude: Average site altitude:	\$939.30 ITIES 6 5 8 LCY Ime: Division 11 Operator 	Estimate /hr	Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.12: Loose volume: 2,173 Source of estimated volu Source of estimated swell Source of estimated volu Source of estimated swell Source of estimated swell Source OURLY PRODUCT Average push distance: Jnadjusted hourly Source Oroduction: Materials consistency Average push Statence: Average site altitude: Average site altitude: Material weight: Material weight:	\$939.30 ITIES 6 5 8 LCY ime: Division 11 Operator 'ION 200 feet 700.0 LCY/ Compa 0 % 7,500 feet 2,132 lbs/LCY	Estimate /hr	Mining & Safety		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: ATERIAL QUANTI Initial Volume: 1,930 Swell factor: 1.122 Loose volume: 2,173 Source of estimated volu Source of estimated swell Source of estimated swell Source of estimated swell Source of estimated swell Source OURLY PRODUCT Average push distance: Jnadjusted hourly Source Materials consistency Secription: Average push Stradient: Average site altitude: Secription:	\$939.30 ITIES 6 5 8 LCY Ime: Division 11 Operator 10N 200 feet 700.0 LCY Compa 0 % 7,500 feet	Estimate /hr	Mining & Safety		

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5803

Adjusted unit production:	406.21 LCY/hr
Adjusted fleet production:	812.42 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$1.156/LCY

Total job time:	2.68 Hours
Total job cost:	\$2,518

Task # 001

Task description:	Replace Topsoil on Six Drill F	Pads and Mud Pits		
Site: New Elk Mine	Permit Action:		Permit/Jo	b#: C1981012
PROJECT IDENTIFI	<u>CATION</u>			
Task #: 015	State: Colorado		Abbreviation:	None
Date: $\frac{010}{10/20/2023}$			Filename:	15
User: AMG				
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: NA				
	er day			
Data Source: (CR	(G)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$238.76	NA		
Operating Cost/Hour:	\$162.29	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
				
Total Fleet Cost/Hour:	\$442.35			
<u>MATERIAL QUANTI</u>	<u>TIES</u>			
Initial Volume: 2,200	0			
Swell factor: 1.12				
	5 LCY			
Source of estimated volu				
Source of estimated swel	Il Operator Estimate			
factor:				
HOURLY PRODUCT	ION			
Average push distance:	125 feet			
Unadjusted hourly	1,055.6 LCY/hr			
production:				
	0 111 1 1 1	1.0		
Materials consistency description:	Consolidated stockpil	e 1.0		
Average push	5 %			
gradient:				
Average site altitude:	7,600 feet			
Material weight:	2,055 lbs/LCY			
	2,055 105 105 105			
Weight description:	User Provided			

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.200	(SLOT)
Visibility:	0.800	(POOR)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.119	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5072

Adjusted unit production:	535.40 LCY/hr
Adjusted fleet production:	535.4 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.826/LCY

Total job time:	4.62 Hours
Total job cost:	\$2,045

New Elk Mine	Permit Actio	n: RN8	Permit/Job#:C19810
PROJECT IDENTIF	(ICATION		
Task #: 016	State: Colorad		Abbreviation: None
Date: 10/20/20	23 County: Las Ani	mas	Filename: 16
User: AMG			
Agency or orga	anization name: DRMS		
HOURLY EQUIPM	<u>ENT COST</u>		
Basic Machine: C	at D9T - 9SU		
Horsepower: 40	05		
	emi-Universal		
Attachment: 3-	-shank ripper		
	per day		
Data Source: (0	CRG)		
Cost Breakdown:			
		Utilization %	
Ownership Cost/Hour			
Operating Cost/Hour		100	
Ripper own Cost/Hour		NA	
Ripper op. Cost/Hour		100	
Operator Cost/Hour			
Total unit Cost/Hour:	\$469.65		
Total Fleet Cost/Hour:	\$939.30		
MATERIAL QUAN	<u>FITIES</u>		
Initial Volume: 14	,520		
	, <u>520</u> 125		
Loose volume: <u>16</u>	,335 LCY		
Source of estimated vo			
Source of estimated sw	vell Operator Estimate		
factor:			
HOURLY PRODUC	TION		
Average push distance	: 100 feet		
Unadjusted hourly	1,243.2 LCY/hr		
production:			
		0.0	
Materials consistency	Dry, non-cohesiv	e U.8	
description:			
Average push	0 %		
gradient:	0 / 0		
Average site altitude:	7,500 feet		
riorage site altitude.	1,000 1000		
Material weight:	2,132 lbs/LCY		
-			
Weight description:	User Provided		
		_	
ob Condition Correction	n Factor	Source	

Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.800	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	1.079	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5158

Adjusted unit production:	641.24 LCY/hr
Adjusted fleet production:	1282.48 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.732/LCY

Total job time:	12.74 Hours
Total job cost:	\$11,964

Task # 001

Nom Ell. M.		NW Vent Shaft (TR72)		
New Elk Mine	Permit Actio	n: <u>RN8</u>	Permit/Job	o#: <u>C1981012</u>
ROJECT IDENTIFI	CATION			
Task #: 017 Date: 10/20/202. User: AMG	State: Colorad		Abbreviation: Filename:	None 17
Agency or organ	nization name: DRMS			
IOURLY EQUIPME	NT COST			
Basic Machine:CatHorsepower:310Blade Type:SerAttachment:3-s	t D8T - 8SU			
	RG)			
<u>Cost Breakdown</u> : Ownership Cost/Hour:	\$241.38			
Operating Cost/Hour: Ripper own.	\$143.92			
Cost/Hour:	\$14.11			
Ripper op. Cost/Hour: Operator Cost/Hour:	\$1.12 \$41.30			
Total Fleet Cost/Hour: Initial Volume: Swell factor: 1.16 Loose volume:	1			
Initial Volume: 1,11 Swell factor: 1.16 Loose volume: 1,29 Source of estimated volu Source of estimated swe factor: 1	ITIES 1 5 4 LCY ume: Division of Reclam !ll Cat Handbook	ation, Mining & Safety		
Initial Volume: 1,11 Swell factor: 1,16 Loose volume: 1,29 Source of estimated volu Source of estimated swe	ITIES 1 5 4 LCY ume: Division of Reclam !ll Cat Handbook	ation, Mining & Safety		
Initial Volume: 1,11 Swell factor: 1.16 Loose volume: 1,29 Source of estimated volu Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly	ITTIES 1 5 14 LCY ume: Division of Reclam 11 Cat Handbook YION 50 feet 1,400.0 LCY/hr	ation, Mining & Safety		
IATERIAL QUANT Initial Volume: 1,11 Swell factor: 1.16 Loose volume: 1,29 Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Initial Volume: Source of estimated volu Source Source of estimated volu Source Source of estimated volu Source Materials consistence: Unadjusted hourly production: Materials consistency Average push gradient:	ITTIES 1 5 4 LCY ume: Division of Reclam the cat Handbook Cat Handbook TON 50 feet 1,400.0 LCY/hr Compacted fill or -5 %			
Initial Volume: 1,11 Swell factor: 1.16 Loose volume: 1,29 Source of estimated volu 500 Materials consistency 500 Materials consistency 500 description: 500 Average push 500	ITTIES 1 5 4 LCY ume: Division of Reclam III Cat Handbook TION 50 feet 1,400.0 LCY/hr Compacted fill on			
IATERIAL QUANT Initial Volume: 1,11 Swell factor: 1.16 Loose volume: 1,29 Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Initial Volume: Source of estimated volu Source Source of estimated volu Source Source of estimated volu Source Materials consistence: Unadjusted hourly production: Materials consistency Average push gradient:	ITTIES 1 5 4 LCY ume: Division of Reclam the cat Handbook Cat Handbook TON 50 feet 1,400.0 LCY/hr Compacted fill or -5 %			
Initial Volume: 1,11 Swell factor: 1.16 Loose volume: 1,29 Source of estimated volu Source of estimated swell Source of estimated swell factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: Average site altitude: Average site altitude:	ITTIES 1 5 '4 LCY ume: Division of Reclam '10N 50 feet 1,400.0 LCY/hr Compacted fill of -5 % 7,300 feet	r embankment 0.9		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3963

Adjusted unit production:	554.82 LCY/hr
Adjusted fleet production:	554.82 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.796/LCY

Total job time:	2.33 Hours
Total job cost:	\$1,031

Task description: Strip and Place 5 acres of topsoil RDA									
Site: New Elk Mine		Permit Ac	tion: <u>RN8</u>		Permit/Job#	: <u>C1981012</u>			
PROJECT IDENTIFICATION									
Task #: 019		State: Color	ado	Abl	previation:	None			
		County: Las A	nimas		Filename:	19			
User: AMG									
Agency o	Agency or organization name:DRMS								
HOURLY EQUIPMENT COST Shift basis: <u>1 per day</u>									
			Equipment Descr	iption					
	Truck Loader Tea		725						
			319D L 8'-10" S						
Supj	port Equipment -L		D7R DS Series I						
Pood N		1	D7R DS Series I	I LGP					
Road Maintenance – Motor Grader:CAT 14M-Water Truck:Water Tanker, 3,500 Gal.									
				<u> </u>					
Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Maint	enance Equipment			
	Truck	Excavator	Load Area	Dump Area	Motor	Water Truck			
					Grader				
%Utilization-machine:	100	100	50	50	2	25 25			
Ownership cost/hour:	\$130.23	\$74.99	\$114.76	\$114.76	\$149.3	\$3 \$16.65			
Operating cost/hour:	\$77.33	\$51.92	\$45.99	\$45.99	\$23.2	\$9.40			
%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	00 \$0.00			
Operator cost/hour:	\$32.54	\$37.32	\$41.30	\$41.30	\$28.5	56 \$0.00			
Unit Subtotals:	\$240.10	\$164.23	\$202.05	\$202.05	\$201.0	8 \$26.05			
Number of Units:	1	1	1	1		1 1			
Group Subtotals:	Work:	\$404.33	Support:	\$404.10	Mair	nt: \$227.13			

Total work team cost/hour: <u>\$1,035.56</u>

MATERIAL QUANTITIES

Initial volume:	9,274	CCY	Swell factor:	1.000	
Loose volume:	9,274	LCY			
Sourc	e of estimated volume:	Division of	Reclamation, Min	ing & Safety	
Source of estimated swell factor:		Cat Handbo	ook		
Ν	Aaterial Purchase Cost:	\$0.00			
	Total Cost:	\$0.00			

HOURLY PRODUCTION

Truck	Capacity:

Truck Payload (weight) Basi	<u>s:</u>	
Material weight:	1,600	Pounds/LCY
Description:	Top Soil	
Rated Payload:	52,000	Pounds
Payload Capacity:	32.50	LCY

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Minutes
Minutes
Minutes

Truck/Loader Worksheet Cont'd

Haul Route:

	паш коик	5.								
	Seg #	Haul D	istance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
	0	(Ft)			(%)	(%)	(fpm)	Time		
		(10)			(, 0)	(,)	(ipiii)	(min)		
	1	800.00		5.00	3.00	8.00	936	0.903		
	<u> </u>			1 1		1 1				
						Haul Time:	0.903	mir	nutes	
	Return Rou	ite:								
	Seg #	Haul D	oistance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
	C	(Ft)		. ,	(%)	(%)	(fpm)	Time		
		· · /						(min)		
	1	800.00		-5.00	3.00	-2.00	3159	0.317		
						D . T.	0.01			
						Return Time:	0.01		inutes	
					Total Tru	ck Cycle Time:	8.177	m	inutes	
т	oading Too	1 unit								
L			100 (2			A 1' (1.C '	1 66 .	140.0	.1	
m 1		uction	180.62	LCY/Hour		Adjusted for jo	bb efficiency:	149.9	1	LCY/Hour
Truck	Unit Produ	lction								
			133.79	LCY/Hour		Adjusted for jo	ob efficiency:	111.0	5	LCY/Hour
Optima	al No. of Ti	rucks:	1	Truck(s)		Selected Numb	er of Trucks:	1		Truck(s)
				Adjusted	hourly truck	team production	on: 111	05 I	LCY/H	Iour
				Adjusted single					LCY/H	
				djusted multiple					LCY/H	
			P	ajustea munipie	e truck/toauer	team productio		.05 1	\mathcal{L} I/П	ioui
	JOB TIM	IE AND	COST							
	Fleet	size:	1	Team(s)	Т	otal job time:	83.5	2	Hour	s
	1.000		-		1				-10 41	-
	Unit	cost:	\$9.326	/LCY	Т	otal job cost:	\$86,4	85		
	0.1110		<i></i>		1		<i>400,</i>			

Site: New Elk Mine		Permit Act	ion: <u>RN8</u>		Permit/Job#:	C1981012
PROJECT IDENT	IFICATION					
Task #: 020		State: Colora	do	٨bł	previation: Nor	ne
Date: $10/20/2$	2023	County: Las A			Filename: 20	lie
User: AMG	2023	County. <u>Las A</u>	mmas			
	rganization nam	ne: DRMS				
HOURLY EQUIP	MENT COST			Shift ba	sis: <u>1 per day</u>	
]	Equipment Desci	ription		
Tru	ick Loader Tear			1		
			319D L 8'-10"			
Suppor	t Equipment -Lo		D7R DS Series I			
		1	D7R DS Series I	I LGP		
Road Man	ntenance – Moto		<u>Γ 14Μ</u> ter Tanker, 3,500	Cal		
	- wai	er Truck: wa	er Tanker, 5,500	Gal.		<u></u>
Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Maintena	nce Equipment
<u>Cost Dicardown</u> .	Truck	Excavator	Load Area	Dump Area	Motor Grader	Water Truck
Utilization-machine:	100	100	50	50	25	25
Ownership cost/hour:	\$130.23	\$74.99	\$114.76	\$114.76	\$149.33	\$16.65
Operating cost/hour:	\$77.33	\$51.92	\$45.99	\$45.99	\$23.20	\$9.40
%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:	\$32.54	\$37.32	\$41.30	\$41.30	\$28.56	\$0.00
Unit Subtotals:	\$240.10	\$164.23	\$202.05	\$202.05	\$201.08	\$26.05
Number of Units:	1	1	1	1	1	1
Group Subtotals:	Work:	\$404.33	Support:	\$404.10	Maint:	\$227.13
Total work team cost/		6				
Initial volume:	32,267	CCY	Swell	factor: 1.000		
Loose volume:	32,26					
Some	ce of estimated	volume: Onor	ator Provided			
	f estimated swel		landbook			
	Material Purcha	-				

HOURLY PRODUCTION

<u>Truck Capacity:</u> <u>Truck Payload (weight) Basis:</u> Material weight: 2,650 Pounds/LCY Description: Decomposed rock - 25% Rock, 75% Earth

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	52,000	Pounds
Payload Capacity:	19.62	LCY

Truck Bed (volume) Basis:							
Struck Volume:	14.50	LCY					
Heaped Volume:	18.70	LCY					
Average Volume:	16.60	LCY					
Adjusted Volume:	18.70	LCY					
Final Tr Loading Tool Capacity	uck Volume	Based on Nun	nber of Loader]	Passes:	18.23	LCY	
				Bucl	ket Size Class:	Medium	
Rated Capacity:	1.100	LCY (he	eaped)				
Bucket Fill Factor:	0.975			n aggre	gates to 1/8" (95-	100%) 0.975	-
Adjusted Capacity:	1.073	LCY				,	-
Job Condition Corrections:			Site Altitu	de (ft.):	<u>7680</u> feet		
	Truck	Loade	r	Source			
Altitude Adj:	1.000	0.830		CAT HI			
Job Efficiency:	0.830	0.830	``````````````````````````````````````	CAT HI	/		
			\				
Net Correction:	0.830	0.689)				
Loading Tool Cycle Time:]	Number of Loa	ading Tool Pass	ses Requ	uired to Fill	17	passes
Excavators and Front Shovels	<u>:</u>				Truck:		
Machine Cycle Time vs. Selected Value wi			VERAGE VERAGE				
Track Loaders – M	laterial Desci	ription:					
Cycle Time Elements (min.):							
Load: NA	N	Ianeuver: N	JA		Dump:0.1	00	
Wheel and Track	Loaders - Un	adjusted Basic	Loader Cycle		oad, dump, maneuver):	NA min	utes
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	N	1 771 4 11		NA	(Cat HB)	_
		•	cle Time Adjust		NA	minutes	
		•	l Loader Cycle ' Load Time per T		0.282 4.612	minutes minutes	
				I UUK.	7.012	minutes	
<u>Truck Cycle Time:</u>							
Truck Exchange Time:	0.50	Minutes	A	djusted	for site altitude:	0.500	Minutes
Truck Load Time:	4.612	Minutes	A	djusted	for site altitude:	5.557	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	A	djusted	for site altitude:	0.900	Minutes

Truck/Loader Worksheet Cont'd <u>Truck Travel (Haul & Return) Time:</u> <u>maintained 2.0</u>

Unit cost: _____\$9.232 /LCY

Road Condition: Hard, smooth, stabilized, surfaced, watered,

Total job cost: \$297,889

H	Haul Route	:							
	Seg #	Haul Di (Ft)	stance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	800.00		5.00	2.00	7.00	1050	0.821	
						Haul Time:	0.821	minut	es
F	Return Rou				r				-
	Seg #	Haul Di	stance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	800.00		-5.00	2.00	-3.00	3159	0.317	
						Return Time:	0.317	minu	ites
					Total True	ck Cycle Time:	8.095	minu	ites
Lo	ading Too	ol unit							
	Produ	uction	180.62	LCY/Hour		Adjusted for jo	ob efficiency:	149.91	LCY/Hour
Truck	Unit Produ	uction							
			135.15	LCY/Hour		Adjusted for jo	ob efficiency:	112.17	LCY/Hour
Optimal	l No. of Tr	ucks:	1	Truck(s)		Selected Numb	er of Trucks:	1	Truck(s)
						team productio		17 LC	Y/Hour
				Adjusted single		1			Y/Hour
			A	djusted multiple	e truck/loader	team productio	n: 112.	17 LC	Y/Hour
1	JOB TIM	IE AND	COST						
<u>.</u>									
	Fleet	size:	1	Team(s)	Te	otal job time:	287.6	6 H	lours

ite: New Elk Mine		Permit Act	ion: <u>RN8</u>		Permit/Job#:	C1981012
PROJECT IDENT	TIFICATION					
Task #: 021		State: Colora	ado	Abb	previation: No	ne
Date: 10/20/	2023	County: Las A	nimas		Filename: 21	
User: AMG						
Agency or c	organization nan	ne: DRMS				
HOURLY EQUIP	MENT COST	-		Shift ba	sis: <u>1 per day</u>	
]	Equipment Descr	iption		
Tr	uck Loader Tear	m -Truck: Cat	725	•		
	· E. · · · ·		319D L 8'-10" S			
Suppor	t Equipment -L		D7R DS Series I D7R DS Series I			
Road Mai	ntenance –Moto	1	<u>Г 14М</u>			
110 00 1110			er Tanker, 3,500	Gal.		
		L. L				
Cost Breakdown:	Truck/Loa			Equipment		ance Equipment
	Truck	Excavator	Load Area	Dump Area	Motor Grader	Water Truck
Utilization-machine:	100	100	50	50	25	25
Ownership cost/hour:	\$130.23	\$74.99	\$114.76	\$114.76	\$149.33	\$16.65
Operating cost/hour:	\$77.33	\$51.92	\$45.99	\$45.99	\$23.20	\$9.40
%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:	\$32.54	\$37.32	\$41.30	\$41.30	\$28.56	\$0.00
Unit Subtotals:	\$240.10	\$164.23	\$202.05	\$202.05	\$201.08	\$26.05
Number of Units:	1	1	1	1	1	1
Group Subtotals:	Work:	\$404.33	Support:	\$404.10	Maint:	\$227.13
Total work team cost/	hour: <u>\$1,035.5</u>	6				
MATERIAL QUA	NTITIES					
Initial volume:	12,907	CCY	Swell	factor: 1.000		
Loose volume:	12,90					
Sour	ce of estimated	volume: Oper	ator Provided			
		volume. Oper				
	f estimated swe		Iandbook			

HOURLY PRODUCTION

Truck Capacity: <u>Truck Payload (weight) Basis:</u> Material weight: 2,650 Pounds/LCY Description: Decomposed rock - 25% Rock, 75% Earth

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	52,000	Pounds
Payload Capacity:	19.62	LCY

Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final T	ruck Volume	Based on Number of	Loader Passes:	18.23	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: <u>N</u>	Medium	
Rated Capacity:	1.100	LCY (heaped)				
Bucket Fill Factor:	0.975	Loose material	- uniform aggre	egates to 1/8" (95-1	00%) 0.975	_
Adjusted Capacity:	1.073	LCY				
Job Condition Corrections:		S	ite Altitude (ft.)	: <u>7680</u> feet		
	Truck	Loader	Source	e		
Altitude Adj:	1.000	0.830	(CAT H			
Job Efficiency:	0.830	0.830	(CAT H	B)		
Net Correction:	0.830	0.689				
Loading Tool Cycle Time:	-	Number of Loading	Fool Passes Req	•	17	passes
Excavators and Front Shovels	<u>:</u>			Truck:		
Machine Cycle Time vs. Selected Value w						
Track Loaders – N	Aaterial Desci	ription:				
Cycle Time Elements (min.):						
Load: NA	N	Ianeuver: NA		Dump: 0.10	0	
Wheel and Track	Loaders - Un	adjusted Basic Load	• •	oad, dump, maneuver):	NA min	utes
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			NA	(Cat HB)	
		•	ne Adjustment:	NA	minutes	
		Adjusted Load		0.282	minutes	
		INEL LOAD 1	ime per Truck:	4.612	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time:	0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Time:	4.612	Minutes	Adjusted	for site altitude:	5.557	Minutes
Truck Maneuver and Dump Time:		Minutes	Adjusted	for site altitude:	0.900	Minutes

Truck/Loader Worksheet Cont'd Truck Travel (Haul & Return) Time: maintained 2.0

Road Condition: Hard, smooth, stabilized, surfaced, watered,

Haul Rout Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	800.00)	5.00	2.00	7.00	1050	0.821	_
					Haul Time:	0.821	minu	tes
Return Ro	ute:					-		
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	800.00)	-5.00	2.00	-3.00	3159	0.317	
					Return Time:	0.317	min	utes
				Total Tru	ck Cycle Time:	8.095	min	utes
Loading To	ol unit							
Prod	uction	180.62	LCY/Hour		Adjusted for jo	ob efficiency:	149.91	LCY/Hour
Truck Unit Prod	uction	125 15	LCY/Hour		A dimente d fra : :	1	112 17	LCY/Hour
	_	135.15			Adjusted for jo	ob efficiency:	112.17	
Optimal No. of T	rucks:	1	Truck(s)		Selected Numb	er of Trucks:	1	Truck(s)
			Adjusted	hourly truck	team productio	n: 112.	17 LC	Y/Hour
					team productio			Y/Hour
		A	djusted multiple	e truck/loader	team productio	n: 112.	17 LC	Y/Hour
JOB TIN	<u>1E ANI</u>	O COST						
JOB TIN Fleet		D COST 1	Team(s)	Т	otal job time:	115.0	<u>7</u> H	Iours

Task description:Strip and Place 5 acres of Cover over 2 feet from borrow					w RDA	
Site: New Elk Min	e	Permit Ac	tion: RN8		Permit/Job#:	C1981012
PROJECT IDF	ENTIFICATION					
Task #: 02		State: Color	rado	Abł	previation: Nor	ne
			Animas		Filename: 22	
	MG					
Agency	or organization nan	ne: DRMS				
HOURLY EQU	JIPMENT COST	_		Shift ba	sis: <u>1 per day</u>	
			Equipment Descr	iption		
	Truck Loader Tea		t 725	•		
			t 319D L 8'-10" S			
Suj	pport Equipment -L		t D7R DS Series I t D7R DS Series I			
Road	Maintenance – Moto		T 14M			
	-Wa		ater Tanker, 3,500	Gal.		
	T 1/I	1 75				
<u>Cost Breakdown</u>	: Truck/Loa Truck	der Team Excavator	Load Area	Equipment Dump Area	Maintena Motor	nce Equipment Water Truck
				-	Grader	
%Utilization-machine		100	50	50	25	25
Ownership cost/hour		\$74.99	\$114.76	\$114.76	\$149.33	\$16.65
Operating cost/hour		\$51.92	\$45.99	\$45.99	\$23.20	\$9.40
%Utilization-riper Ripper own		0	NA	NA	NA	NA
cost/hour	:: NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour		\$37.32	\$41.30	\$41.30	\$28.56	\$0.00
Unit Subtotals		\$164.23	\$202.05	\$202.05	\$201.08	\$26.05
Number of Units	s: 1	1	1	1	1	1
Group Subtotals	S: Work:	\$404.33	Support:	\$404.10	Maint:	\$227.13
Total work team of	cost/hour: <u>\$1,035.5</u>	6				
<u>MATERIAL Q</u>	UANTITIES					
Initial volu	-)	CCY		factor: <u>1.000</u>		
Loose volu	me: 26,51	7 LCY	<i>T</i>			
	Source of estimated	1	rator Provided			
Sour	ce of estimated swe		Handbook			
	Material Purcha					
	10	tal Cost: <u>\$0.0</u>				

HOURLY PRODUCTION

 Truck Capacity:

 Truck Payload (weight) Basis:

 Material weight:
 2,650

 Pounds/LCY

 Description:
 Decomposed rock - 25% Rock, 75% Earth

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	52,000	Pounds
Payload Capacity:	19.62	LCY

Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final T	ruck Volume	Based on Number o	f Loader Passes:	18.23	LCY	
Loading Tool Capacity						
<u>Louding Poor Cupacity</u>			Bucl	ket Size Class:	Medium	_
Rated Capacity:	1.100	LCY (heaped)				
Bucket Fill Factor:	0.975	Loose materia	l - uniform aggre	gates to 1/8" (95-1	00%) 0.975	
Adjusted Capacity:	1.073	LCY				
Job Condition Corrections:		S	Site Altitude (ft.):	<u>7680</u> feet		
	Truck	Loader	Source	•		
Altitude Adj:	1.000	0.830	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI	B)		
Net Correction:	0.830	0.689				
Loading Tool Cycle Time:		Number of Loading	Tool Passes Req	uired to Fill Truck:	17 F	basses
Excavators and Front Shovels	<u>s:</u>					
Machine Cycle Time vs Selected Value w						
Track Loaders – N	Material Desc	ription:				
Cycle Time Elements (min.):						
Load: NA	N	Maneuver: NA		Dump: 0.10	00	
Wheel and Track	Loaders - Ur	adjusted Basic Load	• •	oad, dump,	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 Coule Ti		NA	(Cat HB)	-
		•	ne Adjustment: ler Cycle Time:	NA 0.282	minutes minutes	
			Time per Truck:	4.612	minutes	
<u>Truck Cycle Time:</u>			1			
Truck Exchange Time	0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Time		Minutes	-	for site altitude:	5.557	Minutes
Truck Maneuver and Dump	0.90	Minutes	-	for site altitude:	0.900	Minutes
Time				-		

Truck/Loader Worksheet Cont'd <u>Truck Travel (Haul & Return) Time:</u> <u>maintained 2.0</u>

Road Condition: Hard, smooth, stabilized, surfaced, watered,

	Haul Route	e:							
	Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	800.00)	5.00	2.00	7.00	1050	0.821	
						Haul Time:	0.821	minutes	
	Return Rou								
	Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
		(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	800.00)	-5.00	2.00	-3.00	3159	0.317	
						Return Time:	0.317	minutes	5
					Total True	ck Cycle Time:	8.095	minutes	5
T	oading Too	l unit							
L	Produ		180.62	LCY/Hour		Adjusted for jo	ob efficiency:	149.91	LCY/Hour
Truck	Unit Produ	uction –				5 5	2		
		_	135.15	LCY/Hour		Adjusted for jo	ob efficiency:	112.17	LCY/Hour
Optima	al No. of Tı	rucks:	1	Truck(s)		Selected Numb	er of Trucks:	1	Truck(s)
				Adjusted	hourly truck	team productio	n: 112.	17 LCY/H	Hour
				Adjusted single	truck/loader	team productio	n: 112.	17 LCY/H	Hour
			A	djusted multiple	truck/loader	team productio	n: 112.	17 LCY/H	Hour
	JOB TIM	IE AND	O COST						
	Fleet	size:	1	Team(s)	T	otal job time:	236.4	0 Hou	rs

 Unit cost:
 \$9.232
 /LCY
 Total job cost:
 \$244,805

Truck/Loader Worksheet Cont'd	

- -	FRUCK/I	LOA	DER TEAM V	<u>WORK</u>		
Replace	topsoil ov	er bo	rrow area RDA			
	Perm	it Act	tion: RN8		Permit/Job#:	C1981012
TIFICATION						
	State: 0	Colora	ado	Abb	previation: N	Jone
	County: I	Las A	nimas		Filename: 2	.3
r <u> </u>						
organization nam	e: DRM	S				
PMENT COST				Shift ba	sis: <u>1 per day</u>	
				iption		
ruck Loader Tean				Stiels		
ort Equipment -La						
-Du	mp Area:					
-Wat	er Truck:	NA				
Truck/Load	ler Team		Support	Equipment	Mainte	enance Equipmen
Truck		r	Load Area	Dump Area	Motor Grader	Water Truck
100		100	50	50	NA	A NA
\$130.23	\$74	4.99	\$114.76	\$114.76	NA	A NA
\$77.33	\$5		\$45.99	\$45.99	NA	
NA		0	NA	NA	NA	A NA
NA	\$0	0.00	\$0.00	\$0.00	NA	NA NA
NA	\$0	0.00	\$0.00	\$0.00	NA	A NA
\$32.54	\$3′	7.32	\$41.30	\$41.30	NA	A NA
\$240.10	\$164	4.23	\$202.05	\$202.05	NA	A NA
1		1	1	1) (
Work:	\$404.33		Support:	\$404.10	Maint	: \$0.00
: 6.050		CCY	Swell	factor: 1.000		
)					
rce of estimated	volume [.]	Divi	sion of Reclamati	on. Mining & Sa	fetv	
				en, mining & Bu		
Tot	al Cost:	\$0.00	0			
	Replace TIFICATION 0/2023 C organization name PMENT COST ruck Loader Team ort Equipment - Load ort Equipment - Load ort Equipment - Load Truck/Load Truck/Load Truck/Load Truck/Load Truck/Load 100 \$130.23 \$77.33 NA S20.54 \$240.10 1 Work: t/hour: \$808.43 ANTITIES 6,050 : <td< td=""><td>Replace topsoil over Perm TIFICATION State: 0 \u00ed/2023 County: 1 Organization name: DRM PMENT COST ruck Loader Team -Truck: -Loader: -Dump Area: -Dum Area: -Dum</td><td>Replace topsoil over boPermit ActPermit ActTIFICATIONState: ColorCounty: Las AOrganization name: DRMSPMENT COSTruck Loader Team -Truck: CatOump Area: CatOut of colspan="2">Out of colspan="2"Out of colspan="2"Out of colspan="2</td><td>Replace topsoil over borrow area RDA Permit Action: RN8 TIFICATION State: Colorado O/2023 County: Las Animas Organization name: DRMS County: Cas Animas Organization name: DRMS PMENT COST Equipment Descr Cat 319D L 8'-10" S Ord Equipment -Load Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I Outp Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I -Outp Area: Cat D7R DS Series I -Water Truck: NA Support Truck/Loader Team Support Truck Excavator Load Area 100 100 50 \$130.23 \$74.99 \$114.76 \$377.33 \$51.92 \$45.</td><td>Permit Action: RN8 TIFICATION State: Colorado Abb //2023 County: Las Animas Abb //2023 Cat 725 </td><td>Replace topsoil over borrow area RDA Permit Action: RN8 Permit/Job#: TIFICATION Million County: Las Animas Abbreviation: N Abbreviation: N //2023 County: Las Animas Abbreviation: N right colspan="2">Filename: DRMS PMENT COST Shift basis: 1 per day Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: DRMS PMENT COST Shift basis: 1 per day Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: Mater -Went Truck: Cat 725 -Dump Area: Cat D7R DS Series II LGP -Dump Area: Cat D7R DS Series II LGP -Dump Area: Cat D7R DS Series II LGP 100 100 50 50 M/ Stintage Stintage</td></td<>	Replace topsoil over Perm TIFICATION State: 0 \u00ed/2023 County: 1 Organization name: DRM PMENT COST ruck Loader Team -Truck: -Loader: -Dump Area: -Dum	Replace topsoil over boPermit ActPermit ActTIFICATIONState: ColorCounty: Las AOrganization name: DRMSPMENT COSTruck Loader Team -Truck: CatOump Area: CatOut of colspan="2">Out of colspan="2"Out of colspan="2"Out of colspan="2	Replace topsoil over borrow area RDA Permit Action: RN8 TIFICATION State: Colorado O/2023 County: Las Animas Organization name: DRMS County: Cas Animas Organization name: DRMS PMENT COST Equipment Descr Cat 319D L 8'-10" S Ord Equipment -Load Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I Outp Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I -Dump Area: Cat D7R DS Series I -Outp Area: Cat D7R DS Series I -Water Truck: NA Support Truck/Loader Team Support Truck Excavator Load Area 100 100 50 \$130.23 \$74.99 \$114.76 \$377.33 \$51.92 \$45.	Permit Action: RN8 TIFICATION State: Colorado Abb //2023 County: Las Animas Abb //2023 Cat 725	Replace topsoil over borrow area RDA Permit Action: RN8 Permit/Job#: TIFICATION Million County: Las Animas Abbreviation: N Abbreviation: N //2023 County: Las Animas Abbreviation: N right colspan="2">Filename: DRMS PMENT COST Shift basis: 1 per day Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: DRMS PMENT COST Shift basis: 1 per day Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: Cat 725 -Loader: Cat 319D L 8'-10" Stick organization name: Mater -Went Truck: Cat 725 -Dump Area: Cat D7R DS Series II LGP -Dump Area: Cat D7R DS Series II LGP -Dump Area: Cat D7R DS Series II LGP 100 100 50 50 M/ Stintage Stintage

HOURLY PRODUCTION

<u>Truck Capacity:</u> <u>Truck Payload (weight) Basis:</u>

Material weight:	1,600	Pounds/LCY
Description:	Top Soil	-

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	52,000	Pounds
Payload Capacity:	32.50	LCY

Truck Bed (volume) Basis:						
Struck Volume:	14.50	LCY				
Heaped Volume:	18.70	LCY				
Average Volume:	16.60	LCY				
Adjusted Volume:	18.70	LCY				
Final 7 Loading Tool Capacity	Fruck Volume	Based on Number of	Loader Passes:	18.23	LCY	
<u></u>			Buck	cet Size Class: N	/ledium	
Rated Capacity:	1.100	LCY (heaped)	Ducr		neurum	_
Bucket Fill Factor:	0.975		- uniform agore	gates to 1/8" (95-1	00%) 0 975	_
Adjusted Capacity:	1.073	LCY	uniform aggre		0070) 0.975	_
rajusted Capacity.	1.070					
Job Condition Corrections:	-	S	ite Altitude (ft.):	<u>7680</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	0.830	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.689				
	0.050	0.007				
Loading Tool Cycle Time:	1	Number of Loading 7	Tool Passes Requ		17	passes
Excavators and Front Shovel	<u>s:</u>			Truck:		
Machine Cycle Time vs Selected Value w						
Track Loaders –	Material Desci	ription:				
Cycle Time Elements (min.):						
Load: NA	N	Ianeuver: NA		Dump: 0.10	0	
Wheel and Track	Loaders - Un	adjusted Basic Loade	•	oad, dump, naneuver):	NA min	utes
Cycle Time Factors	1			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			NA	(Cat HB)	
		Net Cycle Tin		NA	minutes	
		Adjusted Load		0.282	minutes	
		Net Load T	ime per Truck:	4.612	minutes	
Truck Cycle Time:						
Truck Exchange Time	: 0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Time	: 4.612	Minutes	Adjusted	for site altitude:	5.557	Minutes
Truck Maneuver and Dump		Minutes	•	for site altitude:	0.900	Minutes
Time	:					

Truck/Loader Worksheet Cont'd Truck Travel (Haul & Return) Time: maintained 2.0

Road Condition: Hard, smooth, stabilized, surfaced, watered,

Haul Route Seg #	Haul D (Ft)	istance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
1	800.00		5.00	2.00	7.00	1050	0.821		
Return Rou	itai				Haul Time:	0.821	m	inutes	
Seg #	Haul D (Ft)		Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
1	800.00		-5.00	2.00	-3.00	3159	0.317		
				Total Tru	Return Time: ck Cycle Time:			ninutes ninutes	
Loading Too Produ	ction	180.62	LCY/Hour		Adjusted for jo	b efficiency:	149	.91	LCY/Hour
ruck Unit Produ	iction _	135.15	LCY/Hour		Adjusted for jo	b efficiency:	112	.17	LCY/Hour
ptimal No. of Tr	ucks:	1	Truck(s)		Selected Numb	er of Trucks:	1		Truck(s)
		А	Adjusted Adjusted single djusted multiple	truck/loader		n: 112.	17	LCY/Ho LCY/Ho LCY/Ho	our
JOB TIM	E AND	COST							
Fleets	size:	1	Team(s)	Т	otal job time:	53.94	1	Hours	5

Site: New Elk Mine		Permit	Actio	n: RN8		Permit/Job#:	C1981012
PROJECT IDEN	FIFICATION						
Task #: 024		State: Co	olorado	0	Abb	previation: Nor	ne
	/2023		as Anii			Filename: 24	
User: AMG		·					
Agency or	organization nan	ne: DRMS	5				
HOURLY EQUIE	<u>PMENT COST</u>	-			Shift ba	sis: <u>1 per day</u>	
			Eq	uipment Descr	iption		
Ti	ruck Loader Tear			ric 10-12 cy, 6x	4		
			CAT				
Suppo	ort Equipment -L			9T - 9SU			
Pood Ma	-Du intenance –Moto	1		9T - 9SU			
Koau Ivia				Tanker, 5,000	Gal		
		of frack.	ii atei	1 uniter, 5,000	Gui		
Cost Breakdown:	Truck/Loa	der Team		Support	Equipment	Maintena	ance Equipment
	Truck	Loader]	Load Area	Dump Area	Motor Grader	Water Truck
Utilization-machine:	100	1	00	100	100	50	50
wnership cost/hour:	\$21.85	\$49.	.32	\$238.76	\$238.76	\$149.33	\$57.13
Operating cost/hour:	\$62.55	\$39.	.80	\$162.29	\$162.29	\$46.40	\$33.25
%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:	\$0.00	\$40.	71	\$41.30	\$41.30	\$28.56	\$21.12
Unit Subtotals:	\$84.40	\$129.	.83	\$442.35	\$442.35	\$224.28	\$111.50
Number of Units:	3		1	1	1	1	1
Group Subtotals:	Work:	\$383.03		Support:	\$884.70	Maint:	\$335.78
Total work team cost		1					
MATERIAL QUA	ANTITES						
Initial volume			CCY	Swell	factor: 1.125		
Loose volume	19,68	8 I	LCY				
Sou	rce of estimated	volume: I	Divisio	n of Reclamati	on, Mining & Sat	fety	
Source	of estimated swe	ll factor:	Operato	or Estimate			
	Material Purcha		50.00				
	То	tal Cost: \$	50.00				

HOURLY PRODUCTION

<u>Truck Capacity:</u> <u>Truck Payload (weight) Basis:</u> Material weight:

_1

Description: User Provided

Pounds/LCY

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	35,400	Pounds
Payload Capacity:	35,400.00	LCY

Truck Bed (volume) Basis: Struck Volume: Heaped Volume: Average Volume: Adjusted Volume: Final T	12.00 11.00 12.00	LCY LCY LCY LCY Based on Number o	f Loader Passes:	9.46	LCY	
Loading Tool Capacity					Ler	
Louding Tool Capacity			Buck	et Size Class:	NA	
Rated Capacity:	4.300	LCY (heaped)			1171	
Bucket Fill Factor:	1.100	Other - rock/d		0-120%) 1.100		
Adjusted Capacity:	4.730	LCY	X	/		
Job Condition Corrections:		S	Site Altitude (ft.):	<u>7500</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	N	umber of Loading	Tool Passes Requ	ired to Fill	2	passes
Excavators and Front Shovels	<u>;;</u>			Truck:	Z	-
Machine Cycle Time vs. Selected Value w						
Track Loaders – N		e				
Cycle Time Elements (min.):						
Load: NA	M	aneuver: NA		Dump: 0.1	00	
Wheel and Track	Loaders - Una	djusted Basic Load	•	oad, dump, naneuver):	0.500 m	inutes
Cycle Time Factors			-	Factor (min.)	Source	
Material:		to 6" diameter 0.0		0.000	(Cat HB)	<u> </u>
Stockpile:	0.01	lozer piled 10 ft. high or less		0.010	(Cat HB)	
Truck Ownership:	Common own 0.04	nership of trucks a	nd loaders -	-0.040	(Cat HB))
Operation:	Constant ope	ration -0.04		-0.040	(Cat HB))
Dump Target:	Nominal targ			0.000	(Cat HB)	<u> </u>
		•	ne Adjustment:	-0.070	minutes	
			ler Cycle Time:	0.430	minutes	
		Net Load 1	ime per Truck:	0.530	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time:	0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Time:	0.530	Minutes	Adjusted	for site altitude:	0.530	Minutes
Truck Maneuver and Dump Time:		Minutes	Adjusted	for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time: maintained 3.0

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

Haul Route: Grade (%) Roll. Res Total Res Velocity Travel Seg # Haul Distance Time (Ft) (%) (%) (fpm) (min) 1500.00 4.00 3.00 7.00 1 1568 0.989 Haul Time: 0.989 minutes **Return Route:** Grade (%) Total Res Velocity Travel Seg # Haul Distance Roll. Res Time (Ft) (%) (%) (fpm) (min) 3.00 -1.00 2938 1500.00 -4.00 1 0.567 **Return Time:** 0.567 minutes Total Truck Cycle Time: 3.486 minutes Loading Tool unit Production 551.07 LCY/Hour Adjusted for job efficiency: 457.39 LCY/Hour Truck Unit Production LCY/Hour Adjusted for job efficiency: 135.14 162.82 LCY/Hour Selected Number of Trucks: 3 Truck(s) Optimal No. of Trucks: 3 Truck(s) Adjusted hourly truck team production: 405.43 LCY/Hour Adjusted single truck/loader team production: 405.43 LCY/Hour Adjusted multiple truck/loader team production: 405.43 LCY/Hour JOB TIME AND COST Fleet size: 1 Team(s) Total job time: 48.56 Hours Unit cost: \$3.955 /LCY Total job cost: **\$77,866**

C1981012
ance Equipment
Water Truck
50
\$57.13
\$33.25
NA
\$0.00
\$0.00
\$21.12
\$111.50
1
\$335.78

HOURLY PRODUCTION

<u>Truck Capacity:</u>		
Truck Payload (weight) Basi	<u>s:</u>	
Material weight:	2,055	Pounds/LCY
Description:	User Provided	

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	35,400	Pounds
Payload Capacity:	17.23	LCY

Truck Bed (volume) Basis:						
Struck Volume:	10.00	LCY				
Heaped Volume:	12.00	LCY				
Average Volume:		LCY				
Adjusted Volume:	12.00	LCY				
Final T	ruck Volume B	ased on Number o	f Loader Passes:	9.46	LCY	7
Loading Tool Capacity					201	
Loading 1001 Capacity						
	4.000			et Size Class:	NA	
Rated Capacity:	4.300	LCY (heaped)		0 1200/) 1 100		
Bucket Fill Factor:	1.100	Other - rock/d	irt mixtures (10	0-120%) 1.100		
Adjusted Capacity:	4.730	LCY				
Job Condition Corrections:		S	Site Altitude (ft.):	<u>7500</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	/		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	N	umber of Loading	Tool Passes Reg	ured to Fill		passes
Excavators and Front Shovels		unioer of Loading	10011 asses Requ	Truck:	2	
Encavators and I fond Sho ten						
	T 1 C 1''	D (*)))				
Machine Cycle Time vs. Selected Value w						
	ithin this Basic	Rating: NA				
Selected Value w Track Loaders – N	ithin this Basic	Rating: NA				
Selected Value w Track Loaders – N	ithin this Basic ⁄Iaterial Descrij	Rating: NA		 Dump:0	.100	
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: <u>NA</u>	ithin this Basic Material Descrip Ma	Rating: NA ption:	ler Cycle Time (10	·		- minutes
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: <u>NA</u>	ithin this Basic Material Descrip Ma	Rating: NA ption:	•	·	.100	minutes
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track	ithin this Basic Material Descrip Ma	Rating: NA ption:	•	bad, dump, naneuver):	0.500	-
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Cycle Time Factors	ithin this Basic Material Descrip Loaders - Unac	Rating: NA ption: aneuver: NA djusted Basic Load	r	bad, dump, naneuver): Factor (min	0.500 .) Sou	rce
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track	ithin this Basic Material Descrip Ma Loaders - Unac Material 3/4" Conveyor or o	Rating: NA ption:	r 0	bad, dump, naneuver):	0.500	rce HB)
Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track <u>Cycle Time Factors</u> Material:	ithin this Basic Material Descrip Ma Loaders - Unad Material 3/4" Conveyor or o 0.01 Common own	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0	n 0 igh or less	pad, dump, naneuver): Factor (min 0.000	0.500 .) Sou (Cat	rce HB) HB)
Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership:	ithin this Basic Material Descrip — Ma Loaders - Unad Material 3/4" Conveyor or 6 0.01 Common own 0.04	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an	n 0 igh or less	Dad, dump, maneuver): Factor (min 0.000 0.010 -0.040	0.500 .) Sou (Cat (Cat (Cat	HB)
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ithin this Basic Material Descrip Ma Loaders - Unad Material 3/4" Conveyor or o 0.01 Common own 0.04 Constant open	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an ration -0.04	n 0 igh or less	Dad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040	0.500 .) Sou (Cat (Cat (Cat (Cat	HB) HB) HB)
Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership:	ithin this Basic Material Descrip — Ma Loaders - Unad Material 3/4" Conveyor or 6 0.01 Common own 0.04	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h mership of trucks an ration -0.04 et 0.00	0 igh or less nd loaders -	pad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040 0.000	0.500 .) Sou (Cat (Cat (Cat	rce HB) HB) HB) HB) HB)
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ithin this Basic Material Descrip Ma Loaders - Unad Material 3/4" Conveyor or o 0.01 Common own 0.04 Constant open	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an ration -0.04 et 0.00 Net Cycle Tin	0 igh or less nd loaders - me Adjustment:	Dad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040 0.000 -0.070	0.500 .) Sou (Cat (Cat (Cat (Cat (Cat	rce HB) HB) HB) HB) HB) HB) utes
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ithin this Basic Material Descrip Ma Loaders - Unad Material 3/4" Conveyor or o 0.01 Common own 0.04 Constant open	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	0 igh or less nd loaders -	pad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040 0.000	0.500 .) Sou (Cat (Cat (Cat (Cat (Cat (Cat	rce HB) HB) HB) HB) HB) HB) HB) utes utes
Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	ithin this Basic Material Descrip Ma Loaders - Unad Material 3/4" Conveyor or o 0.01 Common own 0.04 Constant open	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	0 igh or less nd loaders - me Adjustment: ler Cycle Time:	Dad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040 0.000 -0.070 0.430	0.500 .) Sou (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat	rce HB) HB) HB) HB) HB) HB) HB) utes utes
Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	ithin this Basic Material Descrip Ma Loaders - Unac Material 3/4" Conveyor or o 0.01 Common own 0.04 Constant oper Nominal targe	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	0 igh or less nd loaders - me Adjustment: ler Cycle Time: Time per Truck:	Dad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040 0.000 -0.070 0.430	0.500 .) Sou (Cat (Cat (Cat (Cat (Cat (Cat minuminuminuminuminuminuminuminuminuminu	rce HB) HB) HB) HB) HB) HB) utes utes utes
Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	ithin this Basic Material Descrip Ma Loaders - Unad Material 3/4" Conveyor or 0 0.01 Common own 0.04 Constant oper Nominal targe	Rating: NA ption: aneuver: NA djusted Basic Load to 6" diameter 0.0 dozer piled 10 ft. h nership of trucks an ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	0 igh or less nd loaders - me Adjustment: ler Cycle Time: Time per Truck: Adjusted	pad, dump, naneuver): Factor (min 0.000 0.010 -0.040 -0.040 0.000 -0.070 0.430 0.530	0.500 .) Sou (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat (Cat) (Cat (Cat) (Cat (Cat) (Cat (Cat) (Cat) (Cat (Cat)	rce HB) HB) HB) HB) HB) HB) utes utes utes utes

Truck Travel (Haul & Return) Time: maintained 3.0

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

Haul Route: Grade (%) Roll. Res Total Res Velocity Travel Seg # Haul Distance Time (Ft) (%) (%) (fpm) (min) 3000.00 4.00 3.00 7.00 1 1568 1.946 Haul Time: 1.946 minutes **Return Route:** Grade (%) Total Res Velocity Travel Seg # Haul Distance Roll. Res Time (Ft) (%) (%) (fpm) (min) 3000.00 3.00 -1.00 2938 -4.00 1 1.064 **Return Time:** 1.064 minutes Total Truck Cycle Time: 4.940 minutes Loading Tool unit Production 551.07 LCY/Hour Adjusted for job efficiency: 457.39 LCY/Hour Truck Unit Production LCY/Hour Adjusted for job efficiency: 95.37 114.90 LCY/Hour Selected Number of Trucks: 3 Truck(s) Optimal No. of Trucks: 5 Truck(s) Adjusted hourly truck team production: 286.10 LCY/Hour Adjusted single truck/loader team production: 286.10 LCY/Hour Adjusted multiple truck/loader team production: 286.10 LCY/Hour JOB TIME AND COST Fleet size: 1 Team(s) Total job time: 1.40 Hours Unit cost: \$5.556 /LCY Total job cost: **\$2,222**

Task description:	Clean P	Clean Ponds 004, 007, and 008 Twice During Liability Period						
Site: New Elk Mine		Permit Action:			Permit/Job#: C1981012			
PROJECT IDEN	TIFICATION							
Task #: 026		State: Color	ado	۵bł	previation: No	ne		
Date: 10/20/2023 County: Las Animas					Filename: 26			
User: AMC								
Agency or	organization nan	ne: DRMS						
HOURLY EQUI	PMENT COST	<u>-</u>		Shift basis: <u>1 per day</u>				
			Equipment Descr	escription				
Т	ruck Loader Tea		neric 8-10 cy, 6x4					
			336D L 10'-6" S	Stick				
Suppo	ort Equipment -L							
			D9T - 9SU					
Road Ma	aintenance – Moto		T 14M	<u>C 1</u>				
	- W a	ter Truck: Wa	ter Tanker, 5,000	Gal.				
Cost Breakdown:	Truck/Loa	lder Team	Support	Equipment	Maintena	ance Equipment		
	Truck	Excavator	Load Area	Dump Area	Motor Grader	Water Truck		
%Utilization-machine:	100	75	NA	100	50	50		
Ownership cost/hour:	\$16.85	\$95.93	NA	\$238.76	\$149.33	\$57.13		
Operating cost/hour:	\$49.69	\$54.87	NA	\$162.29	\$46.40	\$33.25		
%Utilization-riper:	NA	0	NA	NA	NA	NA		
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00		
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00		
Operator cost/hour:	\$0.00	\$37.32	NA	\$41.30	\$28.56	\$21.12		
Unit Subtotals:	\$66.54	\$188.12	NA	\$442.35	\$224.28	\$111.50		
Number of Units:	3	1	0	1	1	1		
Group Subtotals:	Work:	\$387.74	Support:	\$442.35	Maint:	\$335.78		
Total work team cos MATERIAL QUA		37						
Initial volume	: 19,095	CCY	v Swall	factor: 1.000				
Loose volume				1.000				
	arce of estimated			ion, Mining & Sat	fety			
Source	of estimated swe		Handbook					
	Material Purcha							
	То	otal Cost: \$0.0	U					

HOURLY PRODUCTION

 Truck Capacity:

 Truck Payload (weight) Basis:

 Material weight:
 2,700

 Description:
 Earth - Wet excavated

Truck/Loader Worksheet Co	nt'd	
Rated Payload:	27,280	Pounds
Payload Capacity:	10.10	LCY

Truck Bed (volume) Basis:						
Struck Volume:	8.00	LCY				
Heaped Volume:		LCY				
Average Volume:		LCY				
Adjusted Volume:	10.00	LCY				
Final T	ruck Volume H	Based on Number of	Loader Passes:	8.81	LCY	
Loading Tool Capacity			Puek	et Size Class: N	Aedium	
Rated Capacity:	2.260	LCY (heaped)	Duck		vicululli	
Bucket Fill Factor:	0.975		mixed moist ag	gregates (95-100	%) 0.975	_
Adjusted Capacity:	2.204	LCY			,	-
Job Condition Corrections:		 S:	e Altitude (ft.):	7500 faat		
Job Condition Corrections.	Trucel			<u>7300</u> leet		
Altitude Adj:	Truck 1.000	Loader 1.000	CAT HB	2)		
Job Efficiency:	0.830	0.830	(CAT HB	·		
soo Emeloney.	0.050	0.050				
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	N	Sumber of Loading T	ool Passes Requ		4	passes
Excavators and Front Shovels	<u>.:</u>			Truck:		
Machine Cycle Time vs. Selected Value w		-	AVERAGE			
Track Loaders – N	Aaterial Descri	ption:				
Cycle Time Elements (min.):						
Load: NA	M	aneuver: NA		Dump: 0.10	0	
Wheel and Track	Loaders - Una	djusted Basic Loader	•	ad, dump, naneuver):	NA min	utes
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 Cycle Time	Adjustment	NA NA	(Cat HB) minutes	_
		Adjusted Loade	• -	0.390	minutes	
			ne per Truck:	1.270	minutes	
		Tee Loud Th		1.270		
Truck Cycle Time:					a == -	
Truck Exchange Time:		Minutes	5	for site altitude:	0.500	Minutes
Truck Load Time:		Minutes	•	for site altitude:	1.270	Minutes
Truck Maneuver and Dump Time:		Minutes	Adjusted f	for site altitude:	0.800	Minutes

Truck/Loader Worksheet Cont'd <u>Truck Travel (Haul & Return) Time:</u> <u>penetration 4.0</u>

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

Seg #	Haul Dist	ance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
0	(Ft)			(%)	(%)	(fpm)	Time	
							(min)	
1	5000.00		5.00	4.00	9.00	1249	4.024	
					Haul Time:	4.024	minutes	
Return Ro	ute:							
Seg #	Haul Dist	ance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	5000.00		-5.00	4.00	-1.00	2938	1.754	
					Return Time:	1.754	minutes	
				Total Truc	k Cycle Time:	8.348	minutes	
Loading To	al unit							
	uction	298.78	LCY/Hour		Adjusted for jo	b efficiency:	247.99	LCY/Hour
uck Unit Prod	uction				5 5	5		
		63.35	LCY/Hour		Adjusted for jo	b efficiency:	52.58	LCY/Hour
	rucks	5	Truck(s)	:	Selected Numb	er of Trucks:	3	Truck(s)
imal No. of T	Tuers.							
imal No. of T	IUCK3		Adjusted	hourly truck	eam productio	n: 157.'	74 LCY/H	Iour
imal No. of T	IUCKS		Adjusted Adjusted single		eam productio			
imal No. of T	iucks			truck/loader	eam productio	n: 157.	74 LCY/H	Iour
imal No. of T	100K3		Adjusted single	truck/loader	eam productio	n: 157.	74 LCY/H	Iour
	IE AND C	A	Adjusted single	truck/loader	eam productio	n: 157.	74 LCY/H	Iour

 Fleet size:
 1
 Team(s)
 Total job time:
 121.05
 Ho

 Unit cost:
 \$7.391
 /LCY
 Total job cost:
 \$141,133
Truck/Loader Worksheet Cont'd

TRUCK/LOADER TEAM WORK

Task descripti	ion:	Replace	Topsoil on NW	vent Fan Aea (FR72)		
Site: New Elk M	line		Permit Act	ion: <u>RN8</u>		Permit/Job#:	C1981012
PROJECT I	DENT	TIFICATION					
Task #:	027		State: Colora	ado	Abb	previation: No	one
	10/20	/2023	County: Las A			Filename: 27	
User:	AMG		·				
Agen	icy or o	organization nan	ne: DRMS				
HOURLY E	QUIP	MENT COST	, -		Shift ba	sis: <u>1 per day</u>	
				Equipment Descr			
	Tr	uck Loader Tea		eric 8-10 cy, 6x4			
	Suppo	rt Equipment -L		Г 928Hz			
	Suppo			D8T - 8SU			
Roa	ad Ma	intenance – Moto		201 050			
		-Wai	er Truck: NA				
Cost Breakdov	wn•	Truck/Loa	der Team	Support	Equipment	Mainter	ance Equipment
Cost Dieakuo	<u>wn</u> .	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
Utilization-mach	ine:	100	45	NA	100	NA	NA
Ownership cost/ho	our:	\$16.85	\$47.37	NA	\$241.38	NA	NA
Operating cost/ho	our:	\$49.69	\$15.53	NA	\$143.92	NA	NA
%Utilization-rij	per:	NA	0	NA	NA	NA	NA
Ripper o cost/ho		NA	\$0.00	NA	\$0.00	NA	NA
Ripper op. cost/ho	our:	NA	\$0.00	NA	\$0.00	NA	NA
Operator cost/he	our:	\$0.00	\$40.71	NA	\$41.30	NA	NA
Unit Subtot	tals:	\$66.54	\$103.61	NA	\$426.60	NA	NA
Number of Ur	nits:	1	1	0	1	0	0
Group Subtot	tals:	Work:	\$170.15	Support:	\$426.60	Maint:	\$0.00
Total work tear							
MATERIAL	, QUA	NTITIES					
			CCY LCY		factor: <u>1.215</u>		
Initial vo Loose vo	olume:	010					
			volume: Divis	ion of Reclamati	on Mining & Sat	fetv	
Loose vo	Sou	rce of estimated		ion of Reclamati Iandbook	on, Mining & Sat	fety	
Loose vo	Sou	rce of estimated	Il factor: Cat H	Iandbook	on, Mining & Sa	fety	

HOURLY PRODUCTION

<u>Truck Capacity:</u>		
Truck Payload (weight) Basi	<u>s:</u>	
Material weight:	1,600	Pounds/LCY
Description:	Top Soil	

Time:

Rated Payload:	27,280	Pour	lds			
Payload Capacity:	17.05	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	8.00	LCY				
Heaped Volume:	10.00	LCY				
Average Volume:	9.00	LCY				
Adjusted Volume:	10.00	LCY				
Final T	ruck Volume	Based on Number o	f Loader Passes:	9.90	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: N	A	
Rated Capacity:	3.000	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/d	irt mixtures (10	00-120%) 1.100		_
Adjusted Capacity:	3.300	LCY				
Job Condition Corrections:		S	Site Altitude (ft.)	: <u>7350</u> feet		
	Truck	Loader	Source	e		
Altitude Adj:	1.000	1.000	(CAT H			
Job Efficiency:	0.830	0.830	(CAT H	B)		
Net Correction:	0.830	0.830				
Leading Teal Coule Times		Number of Leading				
Loading Tool Cycle Time:		Number of Loading	Tool Passes Req	Truck:	3	passes
Excavators and Front Shovels						
Machine Cycle Time vs Selected Value w						
Track Loaders – M	Material Desci	ription:				
Cycle Time Elements (min.):						
Load: NA	Ν	Ianeuver: NA		Dump: 0.100)	
	-					
Wheel and Track	Loaders - Un	adjusted Basic Load			.475 ^{min}	utes
	I			maneuver):		
Cycle Time Factors	Mirrad mata	mia1 0 02		Factor (min.)	Source (Cat IID)	
Material: Stockpile:	Mixed mate Dumped by			0.020	(Cat HB) (Cat HB)	
Truck Ownership:		wnership of trucks a	nd loaders -		, , , , , , , , , , , , , , , , , , ,	
Truck Ownership.	0.04	whership of trucks a	la louders	-0.040	(Cat HB)	
Operation:	-	eration -0.04		-0.040	(Cat HB)	
Dump Target:	Nominal tar			0.000	(Cat HB)	
			ne Adjustment:	-0.040	minutes	
			ler Cycle Time:	0.435	minutes	
		Net Load 7	Time per Truck:	0.970	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time:	0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Time:	0.970	Minutes	Adjusted	for site altitude:	0.970	Minutes
Truck Maneuver and Dump	0.80	Minutes	Adjusted	for site altitude:	0.800	Minutes

Truck Travel (Haul & Return) Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tirepenetration 5.0

Haul Route			1					
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	500.00)	8.00	5.00	13.00	834	0.607	
2	250.00		6.00	5.00	11.00	1018	0.247	
						0.054	•	
Return Ro	ute:				Haul Time:	0.854	minutes	
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
0	(Ft)			(%)	(%)	(fpm)	Time	
1	250.00	<u> </u>	-6.00	5.00	-1.00	2938	(min)	
1 2	500.00		-8.00	5.00	-1.00	2938	0.127 0.228	
2	500.00)	-0.00	5.00	-5.00	2930	0.228	
					Return Time:		minutes	
				Total Tru	ck Cycle Time:	3.479	minutes	
Loading Too	ol unit							
	uction	404.08	LCY/Hour		Adjusted for jo	ob efficiency:	335.39	LCY/Hour
ick Unit Produ	uction				5 5	2		_
		170.74	LCY/Hour		Adjusted for jo	ob efficiency:	141.71	LCY/Hour
imal No. of T	rucks:	2	Truck(s)		Selected Numb	per of Trucks:	1	Truck(s)
			Adjusted	hourly truck	team productio	on: 141.	71 LCY/H	lour
			Adjusted single					
		A	djusted multiple		1			
			J 1		1			
JOB TIM	1E ANI	O COST						
JOB TIM Fleet		<u>0 COST</u> 1	Team(s)	Т	otal job time:	5.95	Hour	'S

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DEMOLITION WORK

Site: N	ew Elk Mine	Permit Action:	RN8	Permit	/Job#:	C1981012
ROJECT	FIDENTIFICAT	ION				
Task #:	028	State: Colorado		Abbreviation:	None	
Date:	10/20/2023	County: Las Animas		Filename:	28	
User:	AMG					

UNIT COSTS

Location adjustment: 94.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Pump House at North River Stockpile	25'X20'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	5,000.00	CF	\$0.24	\$1,187.50
-Pad	25'X20'X6'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	250.00	SF	\$1.26	\$314.30
-Footers	1'X2'X88	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	88.00	LF	\$5.03	\$442.53
East Portal Fan	30'X14'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	4,200.00	CF	\$0.24	\$997.50
-Pad	20'X10'X12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	200.00	SF	\$2.51	\$502.86
-Steel Duct Work	18'X18'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,240.00	CF	\$0.24	\$769.50
-Fan and Related Structures	10,000lbs	USER PROVIDED ITEM	10,000.00	LBS	\$0.25	\$2,500.00
Oil House	33'X32'X16'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	16,896.00	CF	\$0.24	\$4,012.80
-Pad	33'X32'X4"	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,056.00	SF	\$0.84	\$885.03
Hoist House	54'X42'X24'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	54,432.00	CF	\$0.24	\$12,927.60
-Pad	51'X42'X24"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	159.00	СҮ	\$144.50	\$22,975.50
-Hoist Unit and Controls	18,000lbs	USER PROVIDED ITEM	18,000.00	LBS	\$0.25	\$4,500.00

Hoist House 2	20'X40'X20'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	16,000.00	CF	\$0.24	\$3,800.00
-Sheave	30 Tons	USER PROVIDED ITEM	30.00	TON	\$24.34	\$730.20
-Pad	50'X30'X5.4"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	300.00	СҮ	\$144.50	\$43,350.00
Industrial Building - Segment 1	246'X50'X23'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	282,900.00	CF	\$0.24	\$67,188.75
Industrial Building - Segment 2	246'X49'X38'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	458,052.00	CF	\$0.24	\$108,787.35
Industrial Building - Segment 3	246'X40.5'X21'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	209,223.00	CF	\$0.24	\$49,690.46
-Pad	246'X139.5'X6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	34,317.00	SF	\$1.26	\$43,143.33
Transfer Building	42'X22'X31.5'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	29,106.00	CF	\$0.24	\$6,912.68
Breaker Building	65'X45'X65'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	190,125.00	CF	\$0.24	\$45,154.69
-Pad	65'X45'X24"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	217.00	СҮ	\$144.50	\$31,356.50
Slope Conveyor Drive House Building	50' x 37.5' x 15'h	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	28,125.00	CF	\$0.32	\$9,011.25
-Drive and Internal Equipment	3,706 CF	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,706.00	CF	\$0.24	\$880.18
-Foundation	45'X37'X5'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	308.00	СҮ	\$144.50	\$44,506.00
-Slope Belt	1,000'L X 6'w x6'h	Conveyor, demolition, on-site disposal, existing pit, 10,000 ft. haul	36,000.00	CF	\$0.38	\$13,680.00
-Transfer Belt	1,000'L x 6'wx6'h	Conveyor, demolition, on-site disposal, existing pit, 10,000 ft. haul	36,000.00	CF	\$0.38	\$13,680.00

-Drive Belt	1000'Lx6'wx6'h	Conveyor, demolition, on-site disposal, existing pit, 10,000 ft.	36,000.00	CF	\$0.38	\$13,680.00
-Retaining Wall	40'X6'X2'	haul Wall, concrete,	240.00	SF	\$5.51	\$1,322.33
Retaining wan	10 110 112	demolition only, average reinforcing - 24 in. thick	210.00	51	ψ3.51	\$1,522.55
Breaker Building Rock Box	14'X24'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,360.00	CF	\$0.24	\$798.00
-Pad	20 CY	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	20.00	CY	\$144.50	\$2,890.00
-Retaining Wall	3.5'X12"X80 LF	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	280.00	SF	\$4.91	\$1,375.67
Sewage Plant Building	20'X20'X12'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	4,800.00	CF	\$0.24	\$1,140.00
-Pad	40 CY	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	40.00	СҮ	\$144.50	\$5,780.00
-32,000 Gallon Sludge Tank	32,000 G	Comprehensive storage tank removal, non-leaking - 9,000 to 12,000 gal. tank	1.00	EA	\$7,978.93	\$7,978.93
-Pump Sudge From Tank	32,000 G	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$432.00	\$432.00
Water Pipe Vaults (fig.2a)	16' x 10' x 8'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	134.80	СҮ	\$144.50	\$19,478.60
-400,000 Gallon Water Tank	20'X43' Diameter	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	29,029.00	CF	\$0.24	\$6,894.39
-Pad	2'X44'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	113.00	СҮ	\$144.50	\$16,328.50
-25,000 Gallon	21'X11'	Bldg. (SN) demo./on-	1,995.00	CF	\$0.24	\$473.81
Water Tank	Diameter	site disposal in existing pit or cut - Max. 10,000 ft. haul				
-Pad	2'X12'	Pavement, concrete, demolition only, 7 in. to 24 in. thick -	8.00	СҮ	\$144.50	\$1,156.00
Water Tank	21.5'X24'	Reinforced Bldg. (SN) demo./on- site disposal in	8,714.00	CF	\$0.24	\$2,069.58

		existing pit or cut - Max. 10,000 ft. haul				
-Footers	67.5 LF (5)	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	338.00	LF	\$5.03	\$1,699.70
Emergency Escape Hoist	20'X20'X20'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	8,000.00	CF	\$0.24	\$1,900.00
Prep Plant	78'X65'X82'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	415,740.00	CF	\$0.24	\$98,738.25
-Pad	78'X65'X24"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	376.00	СҮ	\$144.50	\$54,332.00
-Footers	2'X3'	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	283.00	LF	\$15.09	\$4,269.37
Thickener Tank	100'DX12'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	3,770.00	SF	\$2.51	\$9,478.91
-Pad	100'DX12"	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	290.80	СҮ	\$144.50	\$42,020.60
Coal Silos (2)	70'X183'X3' (Each)	Explosive demolition, large projects - Concrete structures	1,408,600.00	CF	\$0.37	\$521,182.00
-Pad (2)	70'X24" (Each)	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	570.00	СҮ	\$144.50	\$82,365.00
-Footers	2'X3'X220 LF	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	440.00	LF	\$15.09	\$6,637.88
River Crossing Bridge (metal foot bridge)	30' x 4'w x 3'h	Bridge Demolition - Steel	120.00	SF	\$11.90	\$1,428.00
Slope Rail Track	1,325 LF	Railroad track - Ties and track	1,325.00	LF	\$15.60	\$20,670.00
-Fencing	500 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	500.00	LF	\$3.39	\$1,695.00
-Retaining Wall	3.5'X12"X150LF	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	525.00	SF	\$4.91	\$2,579.38
Rock Dust Bin	5,000 CF	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	5,000.00	CF	\$0.24	\$1,187.50

-Pad	12'X12'X1'th	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	5.33	CY	\$144.50	\$770.19
-Compressor Building	20'X20'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	4,000.00	CF	\$0.24	\$950.00
-Equipment Removal	20'X20'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	2,000.00	CF	\$0.24	\$475.00
-Pad	20'X20'X2'	Pavement, concrete, demolition only, 7 in. to 24 in. thick - Reinforced	27.00	СҮ	\$144.50	\$3,901.50
Refuse Substation	32'X17.5'X6'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,360.00	CF	\$0.24	\$798.00
-Remove Transformer	NA	NON-PCB Transformer Removal	1.00	EA	\$2,314.20	\$2,314.20
Plant Substation	32'X17.5'X6'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,360.00	CF	\$0.24	\$798.00
-Remove	NA	NON-PCB	1.00	EA	\$2,314.20	\$2,314.20
Transformer		Transformer Removal				
East Portal Substation	32'X17.5'X6'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,360.00	CF	\$0.24	\$798.00
-Remove Transformer	NA	NON-PCB Transformer Removal	1.00	EA	\$2,314.20	\$2,314.20
Thickener Substation	15'DX12'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	2,120.00	CF	\$0.24	\$503.50
-Pad	15'DX12"	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	176.70	SF	\$2.51	\$444.28
-Remove Transformer	NA	NON-PCB Transformer Removal	1.00	EA	\$2,314.20	\$2,314.20
Electric House	9'X9'X10'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	810.00	CF	\$0.24	\$192.38
-Concrete Portion	7'X7'X5'	Bldg. (SC) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	245.00	CF	\$0.28	\$68.48
Electric Power Upgrade Equip. Removal	96 CY	USER PROVIDED ITEM	96.00	CY	\$24.34	\$2,336.64
Bates Portal Access Rd Retaining Walls	12"X8'X 285LF	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	285.00	SF	\$4.91	\$1,400.23

-Footer	6'X12"	Demo. and on-site	285.00	LF	\$15.63	\$4,453.70
		disposal in excavated				
		pit, 2.0 ft. x 3 ft Max. 200 ft. push				
Bates Portal Ditch	50 CY	Pavement, concrete,	50.00	CY	\$144.50	\$7,225.00
26 Retaining Wall		demolition only, 7 in.			*	
		to 24 in. thick -				
		Reinforced				
Bates Portal	24'X42'X30'	Bldg. (SN) demo./on-	30,240.00	CF	\$0.24	\$7,182.00
Conveyor Drive Bldg.		site disposal in existing pit or cut -				
Diug.		Max. 10,000 ft. haul				
-Pad	24'X42'X2'	Pavement, concrete,	74.00	CY	\$144.50	\$10,693.00
		demolition only, 7 in.				
		to 24 in. thick -				
Bates Portal	18'X18'X30'	Reinforced Bldg. (SN) demo./on-	9,720.00	CF	\$0.24	\$2,308.50
Conveyor Transfer	10 110 100	site disposal in	9,720.00	Cr	\$0.24	\$2,508.50
Bldg.		existing pit or cut -				
6		Max. 10,000 ft. haul				
-Pad	18'X18'X2'	Pavement, concrete,	24.00	CY	\$144.50	\$3,468.00
		demolition only, 7 in.				
		to 24 in. thick - Reinforced				
Bates Portal Vent	20'X20'X14'	Bldg. (SN) demo./on-	1,520.00	CF	\$0.24	\$361.00
Fan		site disposal in	,			••••
		existing pit or cut -				
~ .	• • • • • • • •	Max. 10,000 ft. haul	• • • • • •	~ 7	*1 • <i>i</i>	**
-Concrete Portion	20'X10'X6"	Demo. and on-site disposal in existing pit,	200.00	SF	\$1.26	\$251.44
		6 in. thick - Max.				
		10,000 ft. haul				
-Fan Removal	5,000 lbs	USER PROVIDED	5,000.00	LBS	\$0.25	\$1,250.00
		ITEM				
-Fan Motor	5,000 lbs	USER PROVIDED ITEM	5,000.00	LBS	\$0.25	\$1,250.00
West Portal Fan	20'X20'X14'	Bldg. (SN) demo./on-	1,520.00	CF	\$0.24	\$361.00
		site disposal in				
		existing pit or cut -				
-Concrete Portion	22.4'X22.4'X6"	Max. 10,000 ft. haul Demo. and on-site	501.00	SF	\$1.26	\$629.86
	22.4 A22.4 A0	disposal in existing pit,	301.00	51	\$1.20	\$029.80
		6 in. thick - Max.				
		10,000 ft. haul				
-Fan Removal	3,500 lbs	USER PROVIDED	3,500.00	LBS	\$0.25	\$875.00
-Fan Motor	4,000 lbs	ITEM USER PROVIDED	4,000.00	LBS	\$0.25	\$1,000.00
-rall Motor	4,000 105	ITEM	4,000.00	LDS	\$0.23	\$1,000.00
West Portal Fan	8,000 lbs	NON-PCB	1.00	EA	\$2,314.20	\$2,314.20
Transformer		Transformer Removal				
- Pad	15'X12'X1'	Demo. and on-site	180.00	SF	\$2.51	\$452.57
		disposal in existing pit,				
		12 in. thick - Max. 10,000 ft. haul				
Acid Tank	10'DX12'	Comprehensive	1.00	EA	\$5,536.95	\$5,536.95
		storage tank removal,	-	_		· /
		non-leaking - 6,000 to				
		8,000 gal. tank				

Fuel Containment Sumps (2)	17'X10'X3'X8"	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	1,004.00	SF	\$1.68	\$1,682.90
-Petroleum Contaminated Soil Removal	10 cy	Dispose of contaminated soil at approved landfill - Minimum	10.00	СҮ	\$145.00	\$1,450.00
Antifreeze Tank Sump	39'X11'X4'X8"	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	829.00	SF	\$1.68	\$1,389.57
Stacking Tube - Raw Coal	9'DX59'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,753.00	CF	\$0.24	\$891.34
Water Pumphouse Tank	20'DX15'X8"	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	950.00	CF	\$0.24	\$225.63
Scale House	6'X4'X8'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	192.00	CF	\$0.24	\$45.60
-Scale	12'X30'X4'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	360.00	SF	\$2.51	\$905.15
Powerline Removal	19580 LF	Disposal of utility pole cross arms and hardware surplus material	19,580.00	LF	\$0.01	\$195.80
Sewage Treatment Tank - Buried	8.5'X5.5'X96'	Comprehensive storage tank removal, non-leaking - 9,000 to 12,000 gal. tank	1.00	EA	\$7,978.93	\$7,978.93
Slope Belt Conveyor	75 LF X 8'	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	1.22	EA	\$3,350.00	\$4,087.00
Transfer Belt Conveyor	8'X85 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	1.38	EA	\$3,350.00	\$4,623.00
Tube Belt Conveyor	8'X582 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	9.50	EA	\$3,350.00	\$31,825.00
Raw Coal to Transfer Bldg	6'X374 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	6.00	EA	\$3,350.00	\$20,100.00
Raw Coal Reclaim to Prep Plant	6'X296 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	4.80	EA	\$3,350.00	\$16,080.00
Clean Coal Reclaim to Transfer Bldg.	6'X497 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	8.00	EA	\$3,350.00	\$26,800.00
Clean Coal from Prep Plant	6'X230 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	3.74	EA	\$3,350.00	\$12,529.00

Refuse Belt- Overland	6'X1,050 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	17.00	EA	\$3,350.00	\$56,950.00
Refuse Belt - Elevated	6'X406 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	6.60	EA	\$3,350.00	\$22,110.00
Truck Dump	6'X170 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	1.10	EA	\$3,350.00	\$3,685.00
Silo Loadout	8'X200 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	3.25	EA	\$3,350.00	\$10,887.50
Transfer to Loadout	8'X114 LF	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	1.85	EA	\$3,350.00	\$6,197.50
Raw Coal Reclaim Tunnel	12'D CMP*253'	Pipe, corrugated metal (CMP) - 144 in. diameter pipe	253.00	LF	\$85.67	\$21,675.34
Clean Coal Reclaim Tunnel	12'D CMP*275'	Pipe, corrugated metal (CMP) - 144 in. diameter pipe	275.00	LF	\$85.67	\$23,560.16
Culvert #1	21"	Pipe, corrugated metal (CMP) - 21 in. diameter pipe	25.00	LF	\$6.78	\$169.45
Culvert #5	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	38.00	LF	\$4.37	\$165.88
Culvert #6	60"	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	17.00	LF	\$24.21	\$411.60
Culvert #7	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	75.00	LF	\$4.37	\$327.40
Culvert #11	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	75.00	LF	\$4.37	\$327.40
Culvert #12	21"	Pipe, corrugated metal (CMP) - 21 in. diameter pipe	775.00	LF	\$6.78	\$5,252.80
Culvert #13	21"	Pipe, corrugated metal (CMP) - 21 in. diameter pipe	50.00	LF	\$6.78	\$338.89
Culvert #17	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	69.00	LF	\$12.39	\$854.89
Culvert #19	33"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	38.00	LF	\$10.30	\$391.24
Culvert #21	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	50.00	LF	\$12.39	\$619.49
Culvert #22	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	19.00	LF	\$4.37	\$82.94
Culvert #24	60"	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	160.00	LF	\$24.21	\$3,873.86

Culvert #25	60"	Pipe, corrugated metal (CMP) - 60 in.	140.00	LF	\$24.21	\$3,389.62
Culvert #26	42"	diameter pipe Pipe, corrugated metal (CMP) - 36 in. diameter pipe	13.00	LF	\$12.39	\$161.07
Culvert #28	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	31.00	LF	\$4.37	\$135.32
Culvert #29	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	38.00	LF	\$4.37	\$165.88
Culvert #31	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	50.00	LF	\$5.94	\$296.93
Culvert #32	33"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	44.00	LF	\$10.30	\$453.02
Culvert #33	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	125.00	LF	\$4.37	\$545.66
Culvert #34	15"	Pipe, corrugated metal (CMP) - 15 in. diameter pipe	31.00	LF	\$5.13	\$158.95
Culvert #35	6"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	19.00	LF	\$3.33	\$63.19
Culvert #36	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	31.00	LF	\$4.37	\$135.32
Culvert #37	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	50.00	LF	\$12.39	\$619.49
Culvert #41	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	19.00	LF	\$18.05	\$343.03
Culvert #46	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	19.00	LF	\$4.37	\$82.94
Culvert #47	15"	Pipe, corrugated metal (CMP) - 15 in. diameter pipe	13.00	LF	\$5.13	\$66.66
Culvert #48	42"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	313.00	LF	\$12.39	\$3,877.98
Culvert #50	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	25.00	LF	\$5.94	\$148.47
Culvert #52	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	50.00	LF	\$12.39	\$619.49
Culvert #53	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	60.00	LF	\$7.73	\$463.72
Culvert #54	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	50.00	LF	\$12.39	\$619.49

Culvert #55	8"	Pipe, corrugated metal (CMP) - 8 in.	25.00	LF	\$3.33	\$83.14
<u> </u>	1.01	diameter pipe	20.00	TE	#5.04	¢1((2 0
Culvert #59	18"	Pipe, corrugated metal (CMP) - 18 in.	28.00	LF	\$5.94	\$166.28
Culvert #60	24"	diameter pipe Pipe, corrugated metal	31.00	LF	\$7.73	\$239.59
		(CMP) - 24 in. diameter pipe				
Culvert #61	8"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	25.00	LF	\$3.33	\$83.14
Culvert #62	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	13.00	LF	\$4.37	\$56.75
Culvert #64	24"	Pipe, corrugated metal (CMP) - 24 in.	50.00	LF	\$7.73	\$386.44
		diameter pipe				
Culvert #65	12"	Pipe, corrugated metal (CMP) - 12 in.	19.00	LF	\$4.37	\$82.94
Culvert #66	18"	diameter pipe Pipe, corrugated metal (CMP) - 18 in.	18.00	LF	\$5.94	\$106.89
Culvert #67	18"	diameter pipe Pipe, corrugated metal (CMP) - 18 in.	22.00	LF	\$5.94	\$130.65
		diameter pipe				
Culvert #68	18"	Pipe, corrugated metal (CMP) - 18 in.	48.00	LF	\$5.94	\$285.05
<u><u> </u></u>	1.011	diameter pipe	00.00	TD	#5.04	¢ 475.00
Culvert #69	18"	Pipe, corrugated metal (CMP) - 18 in.	80.00	LF	\$5.94	\$475.09
Bates Portal	8'X970 LF	diameter pipe Conveyor, Horizontal	15.80	EA	\$3,350.00	\$52,930.00
Conveyor to Breaker Bldg.		Belt 24" Belt, 61.5' Length				
Jansen Loadout	15'X40'	Demo. and on-site	600.00	SF	\$2.51	\$1,508.58
Truck Scale		disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul				
Jansen Coal Conveyor	2,740 LF	Conveyor, Horizontal Belt 24" Belt, 61.5'	44.50	EA	\$3,350.00	\$149,075.00
-Footers	45cy	Length Pavement, concrete, demolition only, 7 in. to 24 in. thick -	45.00	СҮ	\$144.50	\$6,502.50
		Reinforced				
-Transfer Points	10'X10'X10' (3)	Bldg. (MN) demo./on- site disposal in existing pit or cut -	3,000.00	CF	\$0.32	\$961.20
-Footers	3'X2'	Max. 10,000 ft. haul Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max.	120.00	LF	\$15.09	\$1,810.33
Jansen Loadout Bin	38'X35'X40'	10,000 ft. haul Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	53,200.00	CF	\$0.32	\$17,045.28

Jansen Feed Hopper	20'X15'X16'	Bldg. (MN) demo./on- site disposal in	4,920.00	CF	\$0.32	\$1,576.37
		existing pit or cut - Max. 10,000 ft. haul				
Two Radial stackers @ RDA (p. 2.05-27)	2(150'1)	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	4.90	EA	\$3,350.00	\$16,415.00
RDA portable belt (p. 2.05-27)	500'Lx6'x8'	Conveyor, demolition, off-site disposal in approved landfill, 30 mile haul	24,000.00	CF	\$0.81	\$19,440.00
remove piping @ slurry wells	50 ft.	Pipe, steel, welded connections - 10 in. diameter pipe	50.00	LF	\$11.77	\$588.50
remove HPDE slurry line (MR 104)	9000 ft. 1	Pipe, steel, welded connections - 10 in. diameter pipe	9,000.00	LF	\$11.77	\$105,930.00
Culvert #C75 Culvert #C76	42" 42"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00 40.00	LF LF	\$12.39 \$12.39	\$743.38 \$495.59
Culvert #C14A	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	70.00	LF	\$12.39	\$867.28
Culvert #C70 Culvert #C71	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe Pipe, corrugated metal	68.00 54.00	LF	\$5.94	\$403.82 \$320.68
		(CMP) - 18 in. diameter pipe				
Culvert #C72	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	120.00	LF	\$7.73	\$927.44
Culvert #C73	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	190.00	LF	\$7.73	\$1,468.45
Culvert #C74	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$7.73	\$309.15
Culvert #C16A	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	45.00	LF	\$7.73	\$347.79
Culvert #C16B	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	220.00	LF	\$7.73	\$1,700.31
Culvert #C12A	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	160.00	LF	\$12.39	\$1,982.35
Culvert #C17A	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	20.00	LF	\$12.39	\$247.79
Culvert #C17B	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	75.00	LF	\$12.39	\$929.23
Culvert #C28	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	46.00	LF	\$7.73	\$355.52

Culvert #C28A	24"	Pipe, corrugated metal (CMP) - 24 in.	60.00	LF	\$7.73	\$463.72
		diameter pipe				
Culvert #C29	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	34.00	LF	\$7.73	\$262.78
Bathhouse (TR61)	62'l x 21w' x 12'h	Bldg. (SN) demo./on- site disposal in existing pit or cut -	15,624.00	CF	\$0.24	\$3,710.70
-bathhouse pad (TR61)	62/lx 21'w x 0.5'th	Max. 10,000 ft. haul Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	1,302.00	SF	\$1.26	\$1,636.87
Belt feeder (MR101)	35' x 12' x6'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	2,520.00	CF	\$0.24	\$598.50
36" Belt (MR101)	36" x 500 lf	Conveyor, Horizontal Belt 24" Belt, 61.5'	8.10	EA	\$3,350.00	\$27,135.00
Elevating belt (MR101)	36" x 100 lf	Length Conveyor, Horizontal Belt 24" Belt, 61.5' Length	1.62	EA	\$3,350.00	\$5,427.00
Office shop (MR105)	100'l x 50'w x 18'h	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	90,000.00	CF	\$0.32	\$28,836.00
-Office shop floor (MR105)	100'l x 50'w x 0.5'th	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,000.00	SF	\$1.26	\$6,286.00
Pump house (MR105)	12'x 12'x 10'h	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	1,440.00	CF	\$0.24	\$342.00
-pump house floor	12'x12'x 0.5'th	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	144.00	SF	\$1.26	\$181.04
Radial stacker pads (MR97)	3'x 3'x 1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	9.00	SF	\$2.50	\$22.52
200 foot conveyor extension (MR97)	200 lf	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	3.25	EA	\$3,350.00	\$10,887.50
Conveyor tube (MR97)	80'l x 10' dia	Bildg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	6,282.00	CF	\$0.24	\$1,491.98
Disposal of Powerline crossarms, cable, et.al.	19580 LF	Disposal of utility pole cross arms and hardware surplus material	19,580.00	LF	\$0.01	\$195.80
Fan and Duct (MR113)	(50'x12'x12')2	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	14,400.00	CF	\$0.32	\$4,613.76

8 Footers (MR113)	14'x 2'x6'	Demo. and on-site	112.00	LF	\$15.09	\$1,689.64
s robers (WIKTIS)	14 X 2 X0	disposal in existing pit, 2.0 ft. x 3 ft Max.	112.00		\$15.09	\$1,007.0 1
4011 1 1		10,000 ft. haul	1.07		#2.250.00	<i></i>
42" temp belt conveyor (MR113)	115'x3.5'x6'	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	1.87	EA	\$3,350.00	\$6,264.50
42" Silo #1 conveyor (MR113)	165'x3.5'x3'	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	2.68	EA	\$3,350.00	\$8,978.00
42" Silo #2 conveyor (MR113)	56'x3.5'x3'	Conveyor, Horizontal Belt 24" Belt, 61.5' Length	0.91	EA	\$3,350.00	\$3,048.50
Retaining Wall North Elev. (MR113)	12"th. x 790'L	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	790.00	SF	\$4.91	\$3,881.35
Retaining Wall East Elev. (MR113)	12"thx 360'L	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	360.00	SF	\$4.91	\$1,768.72
footer (MR113)	12"x?	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	110.00	LF	\$15.09	\$1,659.47
Truck Loadout (MR113)	9'x18'x22'	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	3,564.00	CF	\$0.24	\$846.45
4 footers (MR113)	2'x4'x4'	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	16.00	LF	\$15.09	\$241.38
Silo Belt Transfer structure (MR113)	25'x 15'x 22' (MR113)	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	8,250.00	CF	\$0.32	\$2,643.30
4 footers (MR113)	2'x 4' x4' (MR113)	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	16.00	LF	\$15.09	\$241.38
35 Ton Coal Blending Bins (MR113)	30'x 12'x 22'	Bldg. (MN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	7,920.00	CF	\$0.32	\$2,537.57
6 Footers (MR113)	2'x 4'x 4'	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	24.00	LF	\$15.09	\$362.07
Culvert C23	30" X 50'L	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	50.00	LF	\$10.30	\$514.80
Culvert C82	30" X 25'L	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	25.00	LF	\$10.30	\$257.40
Culvert C83	18" x 20'L	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	20.00	LF	\$5.94	\$118.77

Demo Worksheet Cont'd

Culvert C84	18" X20'L	Pipe, corrugated metal	20.00	LF	\$5.94	\$118.77
		(CMP) - 18 in.				
		diameter pipe				
Culvert C85	36" X 65'L	Pipe, corrugated metal	65.00	LF	\$12.39	\$805.33
		(CMP) - 36 in.				
		diameter pipe				
Power Pole	2' x 40'	Utility Poles, Wood	78.00	EA	\$307.50	\$23,985.00
Removal		35' - 45' high (each				
		pole)				

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	1,009.00	(unadjusted):	\$2,378,240.69	location):	\$2,235,546.25

Location adjustment: 94.00 %

DEMOLITION WORK

Τa	ask description:	Demolish an	d Remove Stru	ictures @ C&W are	a	
Site: <u></u>	New Elk Mine		Permit Action:	RN8	Permit	t/Job#: <u>C1981012</u>
PROJEC	T IDENTIFICATION	N				
Task #: Date:	10/20/2023	State: County:	Colorado Las Animas		Abbreviation: Filename:	None 29
User:	AMG					

Agency or organization name: DRMS

UNIT COSTS

Structure or Item **Demolition Menu** Unit Total Cost Dimensions Quantity Unit Description Selection Cost C&W Train Shop 110 X 70 X 30 Bldg. (SN) demo./on-231,000.00 CF \$54,862.50 \$0.24 site disposal in existing pit or cut - Max. 10,000 ft. haul \$4,788.00 C&W Train Shop 70 X 24 X 12 Bldg. (SN) demo./on-20,160.00 CF \$0.24 site disposal in existing Office pit or cut - Max. 10,000 ft. haul C&W Train Shop 134 X 70 Demo, and on-site 9,380.00 SF \$1.26 \$11,792.54 Slab disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul 10 Stall Garage 100 X 24 X 20 Bldg. (SN) demo./on-48,000.00 CF \$0.24 \$11,400.00 site disposal in existing pit or cut - Max. 10,000 ft. haul Demo. and on-site 10 Stall Garage Slab 100 X 24 2,400.00 SF \$1.26 \$3,017.28 disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul 10 Stall Garage 100 X 10 Demo. and on-site 1,000.00 SF \$1.26 \$1,257.20 disposal in existing pit, Apron 6 in. thick - Max. 10,000 ft. haul Train Sand Loading 30 X 16 X 20 Bldg. (SN) demo./on-9,600.00 CF \$0.24 \$2,280.00 site disposal in existing Building pit or cut - Max. 10,000 ft. haul Train Sand Loading 30 X 16 Demo. and on-site 480.00 SF \$1.26 \$603.46 Slab disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul Demo. and on-site 200.00 SF Train Sand Loading 35 X 5.7 \$1.26 \$251.44 disposal in existing pit, Apron 6 in. thick - Max. 10,000 ft. haul 40 X 15 X 12 Bldg. (SN) demo./on-7,200.00 CF \$0.24 Car Department \$1,710.00 Office site disposal in existing pit or cut - Max. 10,000 ft. haul

Car Dept. Office Slab	56 X 20	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	1,120.00	SF	\$1.26	\$1,408.06
Car Dept. Office Sidewalk	50 X 3.5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	175.00	SF	\$1.26	\$220.01
Fire Hose Building	8 X 8 X 8	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	512.00	CF	\$0.24	\$121.60
Fire Hose Building Slab	8 X 8	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	64.00	SF	\$1.26	\$80.46
Fire Hose Propane Tank	16 X 3	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 10,000 ft. haul	144.00	CF	\$0.24	\$34.20

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	24.00	(unadjusted):	\$93,826.75	location):	\$88,197.15

BOREHOLE SEALING WORK

Ta	sk description:	Exploration Drilling TR-7	4			
Site: N	lew Elk Mine	Permit Action:	RN8	Permit	Job#:	C1981012
PROJECT	<u>r identificatio</u>	<u>N</u>				
Task #: Date: User:	030 10/20/2023 AMG	State:ColoradoCounty:Las Animas		Abbreviation: Filename:	None 30	
	Agency or organiz	ation name: DRMS				

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Total depth for all Drilling	SCHRAMM T450WS	5	3850	51.30	EA	\$522.23	\$26,790.40
Water Truck for all time	Water Tanker, 10,000 Gal.	5	3850	51.30	EA	\$322.27	\$16,532.45
Plug	PVC plug - 6 in. diameter borehole	5	NA	8.00	EA	\$63.91	\$511.30
Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	8.00	EA	\$39.00	\$312.00
Cement	Portland cement grout (Bag, material cost only94 lb. bag)	5	3850	117.00	bag	\$19.95	\$2,334.15
Drill Pad Reclamation	Cat D6T LGP	NA	NA	16.00	EA	\$266.04	\$4,256.64
Road Reclamation	Cat D6T XL	NA	NA	16.00	EA	\$289.68	\$4,634.88

 Job Hours:
 60.00
 Total Cost:
 \$55,372.00

Date: 10/20/2023

User: AMG

31

Filename:

BOREHOLE SEALING WORK

,	Task description:	Plug and Seal All Borehold	es and Monitoring Wells	
Site:	New Elk Mine	Permit Action:	RN8 Per	rmit/Job#: <u>C1981012</u>
<u>PROJE</u>	CT IDENTIFICATION	[
Task #	#: 031	State: Colorado	Abbreviation	n: None

Agency or organization name: DRMS

County:

Las Animas

UNIT COSTS

Borehole	Sealing/Item Method	D: (T (I	0	T T •4	Unit	Total Cost
Description		Diameter	Length	Quantity	Unit	Cost	Total Cost
MW1 - MW10 Fill w/Cement	Portland cement grout (Bag, material cost only94 lb. bag)	4"	150	7.00	bag	\$19.95	\$139.65
-Plug	PVC plug - 4 in. diameter borehole	4"	NA	10.00	EA	\$35.35	\$353.55
-Cut Casings at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	4.00	LF	\$4.55	\$18.20
-Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	10.00	EA	\$39.00	\$390.00
-Drill Rig Time	SCHRAMM T450WS	NA	NA	20.00	EA	\$522.23	\$10,444.60
-Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	20.00	EA	\$34.27	\$685.40
PAW1 - PAW4; PAW8,9 Fill w/Cement	Portland cement grout (Bag, material cost only94 lb. bag)	4"	137 LF	6.00	bag	\$19.95	\$119.70
-Plug	PVC plug - 4 in. diameter borehole	4"	NA	6.00	EA	\$35.35	\$212.13
-Cut Casings at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	NA	NA	4.00	LF	\$4.55	\$18.20
-Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	6.00	EA	\$39.00	\$234.00
-Drill Rig Time	SCHRAMM T450WS	NA	NA	12.00	EA	\$522.23	\$6,266.76
-Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	12.00	EA	\$34.27	\$411.24
NEW2 - NEW4 Fill w/Cement	Portland cement grout (Bag, material cost only94 lb. bag)	4"	1210 LF	53.00	bag	\$19.95	\$1,057.35
-Plug	PVC plug - 4 in. diameter borehole	4"	NA	3.00	EA	\$35.35	\$106.06
-Cut Casings at Surface	Exposed casing removal - Calculate	4"	NA	4.00	LF	\$4.55	\$18.20

	Circumference in Linear Feet						
-Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	3.00	EA	\$39.00	\$117.00
-Drill Rig Time	SCHRAMM T450WS	NA	NA	18.00	EA	\$522.23	\$9,400.14
-Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	18.00	EA	\$34.27	\$616.86
RW1 & SW1 - SW6 Fill w/Cement	Portland cement grout (Bag, material cost only94 lb. bag)	4"	161 LF	7.00	bag	\$19.95	\$139.65
-Plug	PVC plug - 4 in. diameter borehole	4"	NA	7.00	EA	\$35.35	\$247.48
-Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	4.00	LF	\$4.55	\$18.20
-Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	7.00	EA	\$39.00	\$273.00
-Drill Rig Time	SCHRAMM T450WS	NA	NA	14.00	EA	\$522.23	\$7,311.22
-Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	14.00	EA	\$34.27	\$479.78
Dewatering Holes Fill w/Cement	Portland cement grout (Bag, material cost only94 lb. bag)	4"	450	19.00	bag	\$19.95	\$379.05
-Plug	PVC plug - 4 in. diameter borehole	4"	NA	2.00	EA	\$35.35	\$70.71
-Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	4"	NA	4.00	LF	\$4.55	\$18.20
-Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$39.00	\$78.00
-Drill Rig Time	SCHRAMM T450WS	NA	NA	10.00	EA	\$522.23	\$5,222.30
-Water Truck Time	Water Tanker, 2,500 Gal.	NA	NA	10.00	EA	\$34.27	\$342.70
Seal 3 Slurry wells (MR95)	Portland cement grout (Bag, material cost only94 lb. bag)	9"	1350	298.00	bag	\$19.95	\$5,945.10
-Drill rig and labor	Atlas Capco DM45/HP - 9.0"	NA	NA	12.00	EA	\$741.31	\$8,895.72
-Water Truck time	Water Tanker, 2,500 Gal.	na	na	12.00	EA	\$34.27	\$411.24
-slurry well plugs	PVC plug - 8 in. diameter borehole	9"	NA	3.00	EA	\$87.55	\$262.66
-slurry hole markers	Borehole location/identification marker (EA, material cost only)	NA	NA	3.00	EA	\$39.00	\$117.00
Seal NE-16-11 (MR96)	Portland cement grout (Bag, material cost only94 lb. bag)	9"	392	86.00	bag	\$19.95	\$1,715.70

-plug	PVC plug - 8 in. diameter borehole	9"	NA	1.00	EA	\$87.55	\$87.55
-marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
-Rig and labor	Altas Capco DM25SP - 6-3/4"	NA	NA	4.00	EA	\$660.55	\$2,642.20
-water truck time	Water Tanker, 2,500 Gal.	NA	NA	4.00	EA	\$34.27	\$137.08
Plug 6 "exploration" wells (MR114)	Portland cement grout (Bag, material cost only94 lb. bag)	6"	2270	223.00	bag	\$19.95	\$4,448.85
-plugs	PVC plug - 6 in. diameter borehole	6"	NA	6.00	EA	\$63.91	\$383.48
-drill rig and labor	Altas Capco DM25SP - 6-3/4"	NA	NA	36.00	EA	\$660.55	\$23,779.80
-water truck time	Water Tanker, 2,500 Gal.	NA	NA	36.00	EA	\$34.27	\$1,233.72
Seal NE01-12, NE17-12, NE18- 12 (MR107)	Portland cement grout (Bag, material cost only94 lb. bag)	6"	2500	245.00	bag	\$19.95	\$4,887.75
-plug	PVC plug - 6 in. diameter borehole	6"	NA	3.00	EA	\$63.91	\$191.74
-Mark holes	Borehole location/identification marker (EA, material cost only)	NA	NA	3.00	EA	\$39.00	\$117.00
-Rig and Labor	Altas Capco DM25SP - 6-3/4"	NA	NA	6.00	EA	\$660.55	\$3,963.30
-water truck time	Water Tanker, 2,500 Gal.	NA	NA	8.00	EA	\$34.27	\$274.16
Seal 2 alluvial wells (MR116)	Portland cement grout (Bag, material cost only94 lb. bag)	4"	60	2.62	bag	\$19.95	\$52.27
-marker	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$39.00	\$78.00
-labor	General laborer - Colorado (total incl. fringes, empl. burden)	na	na	2.00	HR	\$23.53	\$47.06
Plug and Seal NE- 05-11 (4wells) and 08-11(4 wells)	Portland cement grout (Bag, material cost only94 lb. bag)	9"	5200	1,148.00	bag	\$19.95	\$22,902.60
-marker	Borehole location/identification marker (EA, material cost only)	NA	NA	8.00	EA	\$39.00	\$312.00
-cut casing	Exposed casing removal - Calculate Circumference in Linear Feet	9"	72	8.00	LF	\$4.55	\$36.40
-rig and labor	Atlas Capco DM45/HP - 9.0"	NA	NA	45.00	EA	\$741.31	\$33,358.95
-water tanker	Water Tanker, 2,500 Gal.	NA	NA	45.00	EA	\$34.27	\$1,542.15

 Job Hours:
 73.00
 Total Cost:
 \$163,052.00

Date: 10/20/2023

User: AMG

BOREHOLE SEALING WORK

	Task description:	Seal Additional Wells			
Site:	New Elk Mine	Permit Action:	RN8	Permit/Jo	ob#: <u>C1981012</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>4</u>			
Task	#: 032	State: Colorado		Abbreviation:	None

Filename: 32

Agency or organization name: DRMS

County: Las Animas

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal SF2	Portland cement grout (Bag, material cost only94 lb. bag)	7.625	700.6	122.28	bag	\$19.95	\$2,439.49
Plug Hole	PVC plug - 8 in. diameter borehole	8	NA	1.00	EA	\$87.55	\$87.55
Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	7.625	NA	1.00	LF	\$4.55	\$4.55
Seal NM20	Portland cement grout (Bag, material cost only94 lb. bag)	7.625	507	88.48	bag	\$19.95	\$1,765.18
Plug Hole	PVC plug - 8 in. diameter borehole	8	NA	1.00	EA	\$87.55	\$87.55
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	7.625	NA	1.00	LF	\$4.55	\$4.55
Mark Hole	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
Seal NM21	Portland cement grout (Bag, material cost only94 lb. bag)	7.625	1244.5	217.21	bag	\$19.95	\$4,333.34
Plug Hole	PVC plug - 8 in. diameter borehole	8	NA	1.00	EA	\$87.55	\$87.55
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	7.625	NA	1.00	LF	\$4.55	\$4.55
Mark Hole	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00

Seal NM22	Portland cement grout (Bag, material cost only94 lb. bag)	7.625	562.7	98.21	bag	\$19.95	\$1,959.29
Plug Hole	PVC plug - 8 in. diameter borehole	8	NA	1.00	EA	\$87.55	\$87.55
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	7.625	NA	1.00	LF	\$4.55	\$4.55
Mark Hole	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
Seal NM23	Portland cement grout (Bag, material cost only94 lb. bag)	7.625	1388.91	242.41	bag	\$19.95	\$4,836.08
Plug Hole	PVC plug - 8 in. diameter borehole	8	NA	1.00	EA	\$87.55	\$87.55
Cut Casing	Exposed casing removal - Calculate Circumference in Linear Feet	7.625	NA	1.00	LF	\$4.55	\$4.55
Mark Hole	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
Drill Rig	Atlas Capco DM45/HP - 9.0"	7.625	NA	36.00	EA	\$741.31	\$26,687.16
Flatbed Equipment Truck	Flatbed Truck, 4x2, 15K GVW	NA	NA	36.00	EA	\$28.57	\$1,028.52
Water Truck	Water Tanker, 5,000 Gal.	NA	NA	36.00	EA	\$123.62	\$4,450.32

Job Hours: 36.00

Total Cost: \$48,155.00

Site: New Elk Mine		Permit Action	n: RN8	P	Permit/Job#: <u>C1</u>	981012	
PROJECT IDENT	IFICATION						
Task #: 033	5	State: Colorado)	Abbre	viation: None		
Date: 10/20/2	2023 Co	unty: Las Anin	nas	Fil	lename: 33		
User: AMG							
Agency or o	rganization name	DRMS					
HOURLY EQUIPM	<u>AENT</u>		COSTS	Shift basis: <u>1 per</u>	day		
		Equipm	ent Description				
		Scraper: Cat 62	7G				
			9T - 9SU				
Suppor	t Equipment -Loa Dum-	d Area: NA p Area: NA					
Road Main	ntenance – Motor		4M				
	-Water	Truck: Water	Tanker, 5,000 Ga	1.			
	c W	1. T	S (E	. ,	N6 . 4	E	
<u>Cost Breakdown</u> :	Scraper Wor Scraper	Dozer	Support Equi Load Area	Dump Area	Maintenance Motor Grader	e Equipment Water Tru	
%Utilization-machine:	100	45	NA	NA	50		
Ownership cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57	
Operating cost/hour:	\$281.21	\$73.03	NA	NA	\$46.40	\$33	
%Utilization-ripper:	NA	20	NA	NA	NA	1	
Ripper own. cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0	
Ripper op. cost/hour:	NA	\$1.80	NA	NA	\$0.00	\$0	
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21	
Unit Subtotals:	\$542.29	\$373.21	NA	NA	\$224.28	\$111	
Number of Units:	2	1	0	0	1		
Group Subtotals:	Work:	\$1,457.79	Support:	\$0.00	Maint:	\$335.78	
Total work team cost/l	nour: \$1,793.5 7						
MATERIAL QUA	NTITIES						
Initial volume:	5,900	CCY	Swell fact	tor: 1.185			
Loose volume:	6,992	LCY					
Sour	ce of estimated vo	olume: Divisio	n of Reclamation,	Mining & Safety	7		
	estimated swell			<u> </u>	,		
HOURLY PRODU	CTION						
			Scraper E	lowl (volume) Ba	usis:		
Material weight:	1,600 lbs/LCY		Struck	Volume: 15.70	L	CY	
Material description:	Coal - Bitumino	us, Raw					
Rated Payload:	52,800 pounds 33.00 LCY		Average Volume:18.85LCYAdjusted Capacity:18.85LCY				
Payload Capacity:							

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	3.00	3.00	6.00	1855	1.43

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 1.43 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	-3.00	3.00	0.00	2921	0.95
				Return Time:	0.95	minutes
			Total Scrape	r team cycle time:	3.38	minutes
			Adjusted f	for job conditions:	277.73	LCY/Hour
			Selected Nu	mber of Scrapers:	2	Scraper(s)
	Adjusted	single scrap	er team (unit) h	ourly production:	555.46	LCY/Hour
	Adjusted mu	ltiple scrape	er team (fleet) h	ourly production:	555.46	LCY/Hour
Optimal	Unadjusted unit prod Number of Scrapers per			LCY/Hour		
JOB TIM	ME AND COST					
Flee	t size: 1	Team(s)	Т	otal ioh time	12 59	Hours

Fleet size:	1	Team(s)	Total job time:	12.59	Hours
Unit cost:	\$3.229	/LCY	Total job cost:	\$22,575	

'book in the book i	Site: New Elk Mine		Permi	it Action	n: RN8	F	Permit/Job#: <u>C1</u>	981012
Date: 10/20/2023 AMG County: Las Animas Filename: 34 Agency or organization name: DRMS HOURLY EQUIPMENT COSTShift basis: 1 per day Equipment Description -Scraper: Cat 627G -Dozer: Cat DT - 9SU Support Equipment -Load Area: NA -Durp Area: NA -Outor Grader: CAT 14M -Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Dozer Load Area Dump Area Motor Grader: Vater %Utilization-machine: 100 35 NA NA Ownership cost/hour: \$238.76 NA NA \$46.40 %Utilization-ripper: NA 20 NA \$46.40 \$000 @iper op. cost/hour: NA \$18.00 NA NA \$46.40 %Utilization-ripper: NA \$1.80 NA \$46.40 0 @init subtotals: <	PROJECT IDENT	IFICATION						
User: Agency or organization name: DRMS HOURLY EQUIPMENT COSTShift basis: 1 per day Equipment Description -Scraper: Cat 627G -Dozer: Cat 627G -Dozer: Cat 797 -9SU Support Equipment Load Area: NA Road Maintenance -Motor Grader: CAT 14M -Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment Scraper Dozer Load Area Dump Area Motor Grader Water %Utilization-machine: 100 35 NA NA 50 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$242.28 Sipper own. cost/hour: NA \$18.32 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$224.28 \$ Number of Units: 2 1 0 0 0 1 Graup Subtotals: \$542.29 \$335.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 0 1 Graup Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333: Total work team cost/hour: \$1,777.34 MATERIAL QUANTITIES Initial volume: 7.600 CCY Swell factor: 1.185 Loose volume: 5.000 Maint: \$333: Total work team cost/hour: \$1,777.34								
HOURLY EQUIPMENT COSTShift basis: 1 per day Equipment Description -Cat 627G -Dozer: Cat D9T - 9SU Support Equipment -Load Area: NA -Dozer: Cat 107 - 9SU -Dozer: Cat D9T - 9SU -Dozer: Cat D9T - 9SU -Dozer: Cat D9T - 9SU -Dozer: Cat D14M -Dozer: Cat D14M -Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment %Utilization-machine: 100 35 NA NA 50 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 0 Operating cost/hour: \$230.18 \$238.76 NA NA \$149.33 0 Ownership cost/hour: \$230.18 \$238.76 NA NA \$46.40 0 %Utilization-ripper: NA 20 NA NA NA \$28.76 0 0 1 0 0 1 0 0 1 0 0		2023 Cot	1111y. <u> </u>		nas	F10	ename. <u>54</u>	
Equipment Description Support Equipment -Load Area -Dump Area NA -Dump Area NA -Oozer CAT D9T - 9SU Support Equipment -Load Area NA -Oump Area NA -Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Dozer Load Area Dump Area Motor Grader Water %Utilization-machine: 100 35 NA Ownership cost/hour: \$232.18 \$238.76 NA NA %Utilization-ripper: NA 20 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$20.00 Ripper own. cost/hour: NA \$18.32 NA NA \$22.56 Unit Subtotals: \$542.29 \$35.69 NA NA \$22.56 Unit Subtotals: \$542.29 \$35.69 NA NA \$22.56 Unit Subtotals: Work	Agency or o	rganization name:	DRM	S				
-Scraper: Cat 627G -Dozer: Cat D9T - 9SU Support Equipment Load Area: NA -Dump Area: NA -Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment Scraper Dozer Load Area Dump Area Motor Grader %Utilization-machine: 100 35 NA NA \$149.33 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$149.33 Operating cost/hour: NA \$18.32 NA NA \$6.00 Ripper own. cost/hour: NA \$1.80 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 1 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$33:33 Total work team cost/hour:: \$1,600 CCY Swell factor: 1.185 5 Loose volume: 9,006	HOURLY EQUIP	MENT			COSTS	Shift basis: <u>1 per</u>	<u>day</u>	
-Dozer: Cat D9T - 9SU Support Equipment -Load Area: NA -Dump Area: NA Road Maintenance -Motor Grader: CAT 14M -Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Dozer Load Area Dump Area Motor Grader Water %Utilization-machine: 100 35 NA NA \$0 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$28.20 Ripper own. cost/hour: NA \$1.80 NA NA \$20.00 Operator cost/hour: NA \$1.80 NA NA \$22.22.8 \$ Unit Subtotals: \$542.29 \$356.98 NA NA \$22.22.8 \$ Number of Units: 2 1 0 0 <td< td=""><td></td><td></td><td></td><td>Equipm</td><td>ent Description</td><td></td><td></td><td></td></td<>				Equipm	ent Description			
Support Equipment -Load Area: NA -Dump Area: NA Road Maintenance -Motor Grader: CAT 14M Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment %Utilization-machine: 100 35 NA NA 50 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$600 Ripper own. cost/hour: NA \$18.32 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 1 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: <								
-Dump Area: NA Road MaintenanceMotor Grader: CAT 14M Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment %Utilization-machine: 100 35 NA NA 50 0wnership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA \$18.32 NA NA \$0.00 Ripper own. cost/hour: NA \$18.32 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 \$ Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$33: Total work team cost/hour: </td <td>Suppor</td> <td></td> <td></td> <td></td> <td>91 - 9SU</td> <td></td> <td></td> <td></td>	Suppor				91 - 9SU			
-Water Truck: Water Tanker, 5,000 Gal. Cost Breakdown: Scraper Dozer Load Area Dump Area Maintenance Equip %Utilization-machine: 100 35 NA NA 50 0wnership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA \$20 NA NA \$46.40 %uper own. cost/hour: NA \$18.32 NA NA \$0.00 Ripper op. cost/hour: NA \$1.80 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$\$ Number of Units: 2 1 0 0 1 \$33.90 Total work team cost/hour: \$1,441.56 Support: \$0.00 Maint: \$33.90 S	Suppor							
Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment %Utilization-machine: 100 35 NA NA 50 %Utilization-machine: 100 35 NA NA 50 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$2281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$80.00 Ripper own.cost/hour: NA \$18.32 NA NA \$20.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1	Road Main		-			-		
Scraper Dozer Load Area Dump Area Motor Grader Water %Utilization-machine: 100 35 NA NA 50 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 %Utilization-ripper: NA \$20 NA NA \$46.40 Ripper own. cost/hour: NA \$18.32 NA NA \$40.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 \$ Group Subt		-Water	Truck:	Water	Tanker, 5,000 Ga	.l.		
Scraper Dozer Load Area Dump Area Motor Grader Water %Utilization-machine: 100 35 NA NA 50 Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA \$46.40 Ripper own. cost/hour: NA \$18.32 NA NA \$40.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$228.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of U	Cost Breakdown:	Scraper Wor	k Team		Support Equ	ipment	Maintenand	e Equipment
Ownership cost/hour: \$230.18 \$238.76 NA NA \$149.33 Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA NA Ripper own. cost/hour: NA \$18.32 NA NA \$\$0.00 Ripper op. cost/hour: NA \$\$18.32 NA NA \$\$0.00 Operator cost/hour: NA \$\$18.32 NA NA \$\$0.00 Operator cost/hour: \$\$30.90 \$\$41.30 NA NA \$\$28.56 Unit Subtotals: \$\$542.29 \$\$356.98 NA NA \$\$224.28 \$\$ Number of Units: 2 1 0 0 1 0 Group Subtotals: Work: \$\$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour:: \$1,777.34				er		* · · · · · · · · · · · · · · · · · · ·	1	Water Truc
Operating cost/hour: \$281.21 \$56.80 NA NA \$46.40 %Utilization-ripper: NA 20 NA NA NA Ripper own. cost/hour: NA \$18.32 NA NA \$0.00 Ripper op. cost/hour: NA \$18.32 NA NA \$0.00 Operator cost/hour: NA \$18.0 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 0 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$33: Total work team cost/hour: \$1,777.34	%Utilization-machine:	100		35	NA	NA	50	4
%Utilization-ripper: NA 20 NA NA NA Ripper own. cost/hour: NA \$18.32 NA NA \$0.00 Ripper op. cost/hour: NA \$1.80 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 \$ Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour: \$1,777.34 \$ \$ \$ \$ MATERIAL QUANTITIES Initial volume: 7,600 CCY Swell factor: 1.185 Source of estimated volume: Division of Reclamation, Mining & Safety \$ \$ \$ Source of estimated swell factor: Cat Handbook \$ \$ \$ HOURLY PRODUCTION \$ \$ \$ \$ \$	Ownership cost/hour:	\$230.18	\$2	38.76	NA	NA	\$149.33	\$57.
Ripper own. cost/hour: NA \$18.32 NA NA \$0.00 Ripper op. cost/hour: NA \$1.80 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0	Operating cost/hour:	\$281.21	\$	56.80	NA	NA	\$46.40	\$33.2
Ripper op. cost/hour: NA \$1.80 NA NA \$0.00 Operator cost/hour: \$30.90 \$41.30 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour: \$1,777.34	%Utilization-ripper:	NA		20	NA	NA	NA	N
Operator cost/hour: \$30.90 \$41.30 NA NA \$28.56 Unit Subtotals: \$542.29 \$356.98 NA NA \$24.28 \$ Number of Units: 2 1 0 0 1 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour: \$1,777.34	Ripper own. cost/hour:	NA	\$	18.32	NA	NA	\$0.00	\$0.0
Unit Subtotals: \$542.29 \$356.98 NA NA \$224.28 \$ Number of Units: 2 1 0 0 1 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour: \$1,777.34		NA		\$1.80	NA	NA	\$0.00	\$0.0
Number of Units: 2 1 0 0 1 Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour: \$1,777.34	1	\$30.90	\$	41.30	NA	NA		\$21.
Group Subtotals: Work: \$1,441.56 Support: \$0.00 Maint: \$333 Total work team cost/hour: \$1,777.34	Unit Subtotals:	\$542.29	\$3	56.98	NA	NA	\$224.28	\$111.
Total work team cost/hour: \$1,777.34 MATERIAL QUANTITIES Initial volume: 7,600 CCY Source of estimated volume: 9,006 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Material weight: 1,600 lbs/LCY Struck Volume: 15.70	Number of Units:			1	0			
MATERIAL QUANTITIES Initial volume: 7,600 CCY Swell factor: 1.185 Loose volume: 9,006 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Material weight: 1,600 lbs/LCY Struck Volume: 15.70 LCY	Group Subtotals:	Work:	\$1,441	1.56	Support:	\$0.00	Maint:	\$335.78
Initial volume: 7,600 CCY Swell factor: 1.185 Loose volume: 9,006 LCY Swell factor: 1.185 Source of estimated volume: Division of Reclamation, Mining & Safety Cat Handbook Bource of estimated swell factor: Cat Handbook Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Material weight: 1,600 lbs/LCY Struck Volume: 15.70 LCY	Total work team cost/l	10ur: <u>\$1,777.34</u>						
Loose volume: 9,006 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Material weight: 1,600 lbs/LCY	MATERIAL QUA	NTITIES						
Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Material weight: 1,600 lbs/LCY		.)			Swell fact	tor: 1.185		
Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Scraper Bowl (volume) Basis: Material weight: 1,600 lbs/LCY Struck Volume: 15.70 LCY	Loose volume:	9,006		LCY				
HOURLY PRODUCTION Scraper Bowl (volume) Basis: Material weight: 1,600 lbs/LCY Struck Volume: 15.70						Mining & Safety	I	
Material weight: 1,600 lbs/LCY Struck Volume: 15.70 LCY	Source of	estimated swell f	actor:	Cat Har	IUDOOK			
Material weight: 1,600 lbs/LCY Struck Volume: 15.70 LCY	HOURLY PRODU	CTION						
6 <u> </u>					Scraper E	Bowl (volume) Ba	asis:	
	•							
	Material description:		us, Raw		-			
Rated Payload:52,800 poundsAverage Volume:18.85LCYPayload Capacity:33.00 LCYAdjusted Capacity:18.85LCY								

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3500.00	3.00	3.00	6.00	1855	1.97

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **1.97** minutes

Return Route:

		-3.00	Adjusted for	0.00 Return Time: team cycle time: or job conditions:	2921 1.29 4.26 220.3(1.29 minutes minutes
			Adjusted for	team cycle time:	4.26	-
			Adjusted for	•		minutes
				or job conditions:	220.26	
			Calastad Mo	5	220.36	LCY/Hour
			Selected Nul	mber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	r team (unit) h	ourly production:	440.72	LCY/Hour
	Adjusted mu	ltiple scraper	team (fleet) h	ourly production:	440.72	LCY/Hour
	ljusted unit prod Jumber of Scrap		265.49	LCY/Hour		
OB TIME ANI						
Fleet size:	<u>D COST</u>		Т	otal job time:	20.43	Hours

 Unit cost:
 \$4.033
 /LCY
 Total job cost:
 \$36,320

Site: New Elk Mine		Permit Action	n: <u>RN8</u>	1	Permit/Job#: <u>C1</u>	981012
PROJECT IDENT	IFICATION					
Task #: 035	c.	State: Colorado	2	Abbre	viation: None	
Date: $10/20/$		unty: Las Anii			ename: 35	
User: AMG	<u>2023</u> 00		iius		<u></u>	
	rganization name	DRMS				
	-		COST	Shift hagin 1 mar	darr	
HOURLY EQUIP				Shift basis: <u>1 per</u>	day	
			nent Description			
		1	9T - 9SU			
Suppor	t Equipment -Loa		/1 - /50			
		p Area: NA				
Road Mai	ntenance – Motor	Grader: CAT	14M			
	-Water	Truck: Water	Tanker, 5,000 Ga	al.		
		1	<i>a</i> . F	•		- ·
Cost Breakdown:	Scraper Wo		Support Equ Load Area		Maintenand Motor Grader	e Equipment Water Tru
	Scraper	Dozer	Load Area	Dump Area	Wotor Grader	water fru
%Utilization-machine:	100	100	NA	NA	50	
Ownership cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57
Operating cost/hour:	\$281.21	\$162.29	NA	NA	\$46.40	\$33
%Utilization-ripper:	NA	0	NA	NA	NA	ſ
Ripper own. cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21
Unit Subtotals:	\$542.29	\$460.67	NA	NA	\$224.28	\$111
Number of Units:	2	1	0	0	\$2220	ψΠ
Group Subtotals:	Work:	\$1,545.25	Support:	\$0.00	Maint:	\$335.78
Total work team cost/		<i><i><i><i>ϕ</i></i>,<i><i>ϕ</i>,<i>ϕ</i>,<i>ϕ</i>,<i>ϕ</i>,<i>ϕ</i>,<i>ϕ</i>,<i>ϕ</i>,<i>ϕ</i></i></i></i>	Suppoint	<i>Q</i> 0.000	1.1000	<i><i><i><i>q</i>cccttt</i></i></i>
MATERIAL QUA						
Initial volume:	1,613	CCY	Swell fac	tor: 1.125		
Loose volume:	1,815	LCY				
	ce of estimated vo	1	, PAP cover requ	irement.		
Source o	f estimated swell	factor: Operato	or Estimate			
HOURLY PRODU	UCTION					
			Scraper I	Bowl (volume) Ba	asis:	
Material weight:	2,132 lbs/LCY		Struck	Volume: 15.70) I	.CY
Material description:	User Provided		-	Volume: 22.00		.CY
Rated Payload:	52,800 pounds			Volume: 18.85		.CY
Payload Capacity:	24.77 LCY		Adjusted	Capacity: 18.85	5 L	.CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	3.00	3.00	6.00	1855	0.96

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **0.96** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-10.00	3.00	-7.00	2938	0.41
				Return Time:	0.41	minutes
			Total Scraper	team cycle time:	2.37	minutes
			Adjusted for	or job conditions:	396.09	LCY/Hour
			Selected Nu	mber of Scrapers:	2	Scraper(s)
	Adjusted s	ingle scrape	r team (unit) h	ourly production:	792.18	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) h	ourly production:	792.18	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		477.22	LCY/Hour		
OB TIM	ME AND COST					
	size: 1	Team(s)		otal job time:	2.29	Hours

 Unit cost:
 \$2.375
 /LCY
 Total job cost:
 \$4,309

Site:	New Elk Mine		Perm	nit Action	: RN8	I	Permit/Job#: <u>C19</u>	981012
<u>PR</u>	OJECT IDENT	IFICATION						
	Task #: 036	St	tate:	Colorado	,	Abbre	viation: None	
	Date: 10/20/2	2023 Cou	nty:	Las Anin	nas	Fil	ename: 36	
	User: AMG							
	Agency or of	rganization name:	DRM	1S				
<u>H0</u>	OURLY EQUIP	MENT			COST	Shift basis: <u>1 per</u>	day	
					ent Description			
			craper: Dozer:	Cat 62	7G 9T - 9SU			
	Suppor	t Equipment -Load		NA NA				
		-Dump	Area:	NA				
	Road Main	ntenance – Motor G		CAT 1				
		-Water	Truck:	Water	Tanker, 5,000 Ga	ıl.		
Cos	t Breakdown:	Scraper Worl	k Team		Support Equ	inment	Maintenanc	e Equipment
<u></u>	<u>t Dicakuown</u> .	Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truc
%Utili	zation-machine:	100		100	NA	NA	50	5
Owne	ership cost/hour:	\$230.18	\$	238.76	NA	NA	\$149.33	\$57.1
Ope	rating cost/hour:	\$281.21	\$	162.29	NA	NA	\$46.40	\$33.2
-	tilization-ripper:	NA		0	NA	NA	NA	N
Ripper	own. cost/hour:	NA		\$18.32	NA	NA	\$0.00	\$0.0
Ripp	er op. cost/hour:	NA		\$0.00	NA	NA	\$0.00	\$0.0
Op	erator cost/hour:	\$30.90		\$41.30	NA	NA	\$28.56	\$21.1
	Unit Subtotals:	\$542.29	\$	460.67	NA	NA	\$224.28	\$111.5
N	umber of Units:	2		1	0	0	1	
(Group Subtotals:	Work:	\$1,54	45.25	Support:	\$0.00	Maint:	\$335.78
Tota	al work team cost/l	nour: <u>\$1,881.03</u>						
MA	TERIAL QUA	NTITIES						
	Initial volume:	3,900		CCY	Swell fac	tor: 1.000		
	Loose volume:	3,900		LCY				
		ce of estimated vol	_			, Mining & Safety	ý	
	Source of	f estimated swell fa	actor:	Operato	r Estimate			
HO	URLY PRODU	CTION						
					Scraper I	<u>Bowl (volume) Ba</u>	asis:	
	Material weight:	2,055 lbs/LCY				Volume: 15.70		CY
Mat	erial description:	User Provided			-	Volume: 22.00		CY
T	Rated Payload:	52,800 pounds				Volume: <u>18.85</u>		CY
P	ayload Capacity:	25.69 LCY			Adjusted	Capacity: 18.85	, L	CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	3.00	3.00	6.00	1855	0.96

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **0.96** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	-3.00	3.00	0.00	2921	0.64
				Return Time:	0.64	minutes
			Total Scraper	team cycle time:	2.60	minutes
			Adjusted for	or job conditions:	361.05	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	r team (unit) he	ourly production:	722.10	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) he	ourly production:	722.10	LCY/Hour
0	Adjusted mul Unadjusted unit prod ptimal Number of Scrap	uction/hour:	team (fleet) he	ourly production: LCY/Hour	722.10	LCY/Hour
OB TI	Unadjusted unit produ	uction/hour: ers per push	435.00		722.10	LCY/Hour

 Unit cost:
 \$2.605
 /LCY
 Total job cost:
 \$10,159

otal job cost: ______\$10,159

Site: New	Elk Mine		Perm	nit Actior	: RN8	I	Permit/Jol	b#: <u>C1</u>	981012
PROJE	CT IDENT	IFICATION							
Tasl	κ <i>#</i> : 037	S	tate:	Colorado		Abbrev	viation:	None	
D	ate: 10/20/2	2023 Cou	inty:	Las Anin	nas	Fil	ename:	37	
U	ser: AMG								
	Agency or of	rganization name:	DRM	1S					
HOUR	LY EQUIP	MENT_			COST	Shift basis: <u>1 per</u>	<u>day</u>		
					ent Description				
			craper: Dozer:	Cat 62	7G 9T - 9SU				
	Suppor	t Equipment -Load		NA NA	950				
	Support	-Dump		NA					
	Road Main	ntenance – Motor C	Grader:	CAT 1					
		-Water	Truck:	Water	Tanker, 5,000 Ga	ıl.			
		a b b b b b b b b b b	1 -		a				. .
<u>Cost Br</u>	<u>eakdown</u> :	Scraper Wor Scraper	<u>k Team</u> Doz	7.07	Support Equ Load Area		Ma Motor		e Equipment Water True
		Scraper	D02	zer	Load Area	Dump Area	Motor	Grader	water fru
%Utilizatio	on-machine:	100		100	NA	NA		50	
Ownershi	p cost/hour:	\$230.18	\$	238.76	NA	NA	\$	149.33	\$57.
Operatin	g cost/hour:	\$281.21	\$	162.29	NA	NA		\$46.40	\$33.
%Utiliza	tion-ripper:	NA		0	NA	NA		NA	Ν
Ripper own	n. cost/hour:	NA		\$18.32	NA	NA		\$0.00	\$0.
Ripper op	o. cost/hour:	NA		\$0.00	NA	NA		\$0.00	\$0.
Operato	or cost/hour:	\$30.90		\$41.30	NA	NA		\$28.56	\$21.
Un	it Subtotals:	\$542.29	\$	460.67	NA	NA	\$	224.28	\$111.
Numb	er of Units:	2		1	0	0		1	
Grou	p Subtotals:	Work:	\$1,54	5.25	Support:	\$0.00		Maint:	\$335.78
Total wo	ork team cost/l	nour: \$1,881.03							
MATE	RIAL QUA	NTITIES							
In	itial volume:	425		CCY	Swell fac	tor: 1.000			
	oose volume:	425		LCY					
	Sour	ce of estimated vol	lume [.]	Divisio	of Reclamation	Mining & Safety	J		
		f estimated swell fa			r Estimate				
HOUR	LY PRODU	CTION							
<u></u>	0				Scraper I	Bowl (volume) Ba	asis:		
Mat	erial weight:	2,055 lbs/LCY			Struck	Volume: 15.70)	L	CY
	description:	User Provided				Volume: 22.00			CY
	ted Payload:	52,800 pounds			-	Volume: 18.85			CY
	ad Capacity:	25.69 LCY			A 11 / 1 /	Capacity: 18.85		т	CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	5.00	3.00	8.00	1381	0.56

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **0.56** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	-5.00	3.00	-2.00	2938	0.30
				Return Time:	0.30	minutes
			Total Scraper	team cycle time:	1.86	minutes
			Adjusted for	or job conditions:	504.69	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted s	ingle scraper	team (unit) ho	ourly production:	1,009.39	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) he	ourly production:	1,009.39	LCY/Hour
	Unadjusted unit prod	uction/hour:	608.06	LCY/Hour		
0	ptimal Number of Scrap					
	5 1	ers per push		201110		

Unit cost: _____\$1.864 /LCY

Total job cost:	\$792						
Site: New Elk Mine		Perm	it Actior	n: <u>RN8</u>]	Permit/Job#: <u>C1</u>	981012
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PROJECT IDENT	IFICATION						
Task #: 038			Colorado			viation: None	
Date: <u>10/20/2</u> User: AMG	<u>2023</u> Cou	unty:	Las Anin	nas	Fi	lename: 38	
· · · · · · · · · · · · · · · · · · ·	rganization name:	DRM	C				
	-		15				
HOURLY EQUIP	<u>MENT</u>		- ·		Shift basis: <u>1 per</u>	<u>: day</u>	
		craper:	Equipm Cat 62	ent Description			
		Dozer:		950 97 - 95U			
Suppor	t Equipment -Load		NA				
Road Mair	Dum <u>p-</u> -Dump ntenance –Motor (p Area: Grader:	NA CAT 1	4M			
Koau Wall	-Water			Tanker, 5,000 Ga	1.		
	0	1 75		0			·
<u>Cost Breakdown</u> :	Scraper Wor Scraper	<u>k Team</u> Doz	zer	Support Equ Load Area	Dump Area	Maintenand Motor Grader	e Equipment Water True
%Utilization-machine:	100		100	NA	NA	50	
Ownership cost/hour:	\$230.18	\$2	238.76	NA	NA	\$149.33	\$57.
Operating cost/hour:	\$281.21	\$1	162.29	NA	NA	\$46.40	\$33.
%Utilization-ripper:	NA		NA	NA	NA	NA	Ν
Ripper own. cost/hour:	NA		\$0.00	NA	NA	\$0.00	\$0.
Ripper op. cost/hour:	NA		\$0.00	NA	NA	\$0.00	\$0.
Operator cost/hour:	\$30.90		\$41.30	NA	NA	\$28.56	\$21.
Unit Subtotals:	\$542.29	\$4	42.35	NA	NA	\$224.28	\$111.
Number of Units:	2		1	0	0	1	*** *
Group Subtotals:	Work:	\$1,52	6.93	Support:	\$0.00	Maint:	\$335.78
Total work team cost/	hour: <u>\$1,862.71</u>						
MATERIAL QUA							
Initial volume: Loose volume:	<u>300</u> 300		CCY LCY	Swell fact	tor: <u>1.000</u>		
	-	1					
	ce of estimated vo f estimated swell f			n of Reclamation, r Estimate	winning & Safet	У	
HOURLY PRODU	UCTION						
				Scraper E	Bowl (volume) B	asis:	
Material weight:	2,055 lbs/LCY			Struck	Volume: 15.70) I	.CY
Material description:	User Provided			Heaped	Volume: 22.00) I	.CY
D-4- J DJ- J.	52,800 pounds			Average	Volume: 18.8:	5 I	CY
Rated Payload: Payload Capacity:	25.69 LCY			Adjusted (.CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	5.00	3.00	8.00	1381	0.56

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 0.56 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	-5.00	3.00	-2.00	2938	0.30
				Return Time:	0.30	minutes
			1	team cycle time:	1.86	minutes
				or job conditions:	504.69	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	team (unit) ho	ourly production:	1,009.39	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) he	ourly production:	1,009.39	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		608.06	LCY/Hour		
OB TIN	ME AND COST					
	size: 1	Team(s)	т	otal job time:	0.30	Hours

Unit cost:\$1.845/LCYTotal job cost:\$554

Site: New Elk Mine	I	Permit Action	n: RN8	I	Permit/Job#: C19	981012
PROJECT IDENT	IFICATION					
Task #: 039	State	: Colorado)	Abbrev	viation: None	
Date: 10/20/2	2023 County:	Las Anin	nas	Fil	ename: 39	
User: AMG						
Agency or or	rganization name: <u>I</u>	ORMS				
HOURLY EQUIPM	MENT_		COSTS	Shift basis: <u>1 per</u>	<u>day</u>	
			ent Description			
	-Scrap -Doz		7 <u>G</u> 9T - 9SU			
Suppor	t Equipment -Load Ar		1 - 950			
Suppor	-Dump Ar					
Road Main	ntenance –Motor Grad	er: CAT 1				
	-Water True	ck: Water	Tanker, 5,000 Ga	l.		
			S (F	. ,	M	E (
<u>Cost Breakdown</u> :	Scraper Work Te Scraper	am Dozer	Support Equ Load Area	Dump Area	Maintenanc Motor Grader	e Equipment Water Trucl
A/77.111 1 1 1				-		
%Utilization-machine:	100	100	NA	NA	50	5
Ownership cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57.1
Operating cost/hour:	\$281.21	\$162.29	NA	NA	\$46.40	\$33.2
%Utilization-ripper:	NA	20	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$1.80	NA	NA	\$0.00	\$0.0
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21.1
Unit Subtotals:	\$542.29	\$462.47	NA	NA	\$224.28	\$111.5
Number of Units:	2	1	0	0	1	
Group Subtotals:	Work: \$	1,547.05	Support:	\$0.00	Maint:	\$335.78
Total work team cost/l	nour: §1,882.83	-				
MATERIAL QUA	NTITIES					
Initial volume: Loose volume:	1,300 1,300	CCY LCY	Swell fact	tor: <u>1.000</u>		
Sour	ce of estimated volum	e: Division	n of Reclamation,	Mining & Safety	7	
	estimated swell facto		or Estimate			
HOURLY PRODU	CTION					
<u></u>			Soronar E	Bowl (volume) Ba	icic.	
			-			~
Material weight:	2,055 lbs/LCY			Volume: 15.70		CY CV
Material description:	User Provided		неареа	Volume: 22.00	L L	CY
Rated Payload:	52,800 pounds		Average	Volume: 18.85	Т	CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	200.00	5.00	3.00	8.00	1381	0.20

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 0.20 minutes

Return Route:

Seg # Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1 200.00	-5.00	3.00	-2.00	2938	0.10
			Return Time:	0.10	minutes
			team cycle time:	1.30	minutes
		Adjusted for	or job conditions:	722.10	LCY/Hour
		Selected Nu	mber of Scrapers:	2	Scraper(s)
Adjusted s	ingle scrape	r team (unit) h	ourly production:	1,444.20	LCY/Hour
Adjusted mul	tiple scraper	team (fleet) h	ourly production:	1,444.20	LCY/Hour
Unadjusted unit produ Optimal Number of Scrap		870.00	LCY/Hour		
OB TIME AND COST Fleet size: 1	Team(s)	Т	otal job time:	0.90	Hours
	r cull(b)	1		0.70	

 Unit cost:
 \$1.304
 /LCY
 Total job cost:
 \$1,695

Road Maintena Cost Breakdown: %Utilization-machine:	S Co Mization name: NT uipment -Loa -Dum ance –Motor of -Water Scraper Wo Scraper 100	Unty: La DRMS	Equipm Cat 62 Cat D9 NA NA CAT 1 Water	nas COSTS tent Description 7G 9T - 9SU	Shift basis: <u>1 per</u>	viation: None ename: 40 day day Maintenanc Motor Grader 50	
Date: 10/20/2023 User: AMG Agency or organ HOURLY EQUIPMEN Support Equ Road Maintena <u>Cost Breakdown:</u>	3 Co ization name: NT	unty: La DRMS	as Anir S Equipm Cat 62 Cat D9 NA NA CAT 1 Water er	nas COSTS eent Description 7G 0T - 9SU .4M Tanker, 5,000 Ga Support Equ Load Area	Shift basis: <u>1 per</u>	ename: <u>40</u> <u>day</u> Maintenanc Motor Grader	
User: AMG Agency or organ HOURLY EQUIPMEN Support Equ Road Maintena Cost Breakdown: %Utilization-machine:	NT NT -S uipment -Loa -Dum ance –Motor -Water Scraper Wo Scraper 100	E DRMS	Equipm Cat 62 Cat D9 NA NA CAT 1 Water	COSTS ent Description 7G 9T - 9SU 4M Tanker, 5,000 Ga Support Equ Load Area	Shift basis: <u>1 per</u> Il. ipment Dump Area	day Maintenanc Motor Grader	
Agency or organi HOURLY EQUIPMEN Support Equ Road Maintena Cost Breakdown: %Utilization-machine:	NT	Escraper: -Dozer: id Area: p Area: Grader: Truck: rk Team	Equipm Cat 62 Cat D9 NA NA CAT 1 Water	ent Description 7G 9T - 9SU 4M Tanker, 5,000 Ga Support Equ Load Area	il. ipment Dump Area	Maintenanc Motor Grader	
HOURLY EQUIPMEN Support Equ Road Maintena Cost Breakdown: %Utilization-machine:	NT	Escraper: -Dozer: id Area: p Area: Grader: Truck: rk Team	Equipm Cat 62 Cat D9 NA NA CAT 1 Water	ent Description 7G 9T - 9SU 4M Tanker, 5,000 Ga Support Equ Load Area	il. ipment Dump Area	Maintenanc Motor Grader	
Support Equ Road Maintena Cost Breakdown: %Utilization-machine:	-S uipment -Loa -Dum ance –Motor -Water Scraper Wo Scraper 100	Scraper: -Dozer: id Area: p Area: Grader: Truck: rk Team	Cat 62 Cat D9 NA NA CAT 1 Water	ent Description 7G 9T - 9SU 4M Tanker, 5,000 Ga Support Equ Load Area	il. ipment Dump Area	Maintenanc Motor Grader	ee Equipmer Water Tr
Cost Breakdown: %Utilization-machine:	uipment -Loa -Dum ance –Motor -Water Scraper Wo Scraper 100	Scraper: -Dozer: id Area: p Area: Grader: Truck: rk Team	Cat 62 Cat D9 NA NA CAT 1 Water	7G 9T - 9SU 4M Tanker, 5,000 Ga Support Equ Load Area	ipment Dump Area	Motor Grader	
Cost Breakdown: %Utilization-machine:	uipment -Loa -Dum ance –Motor -Water Scraper Wo Scraper 100	-Dozer: d Area: p Area: Grader: Truck: rk Team	Cat D9 NA NA CAT 1 Water	9T - 9SU 4M Tanker, 5,000 Ga Support Equ Load Area	ipment Dump Area	Motor Grader	
Cost Breakdown: %Utilization-machine:	uipment -Loa -Dum ance –Motor -Water Scraper Wo Scraper 100	d Area: p Area: Grader: r Truck: rk Team	NA NA CAT 1 Water	4M Tanker, 5,000 Ga Support Equ Load Area	ipment Dump Area	Motor Grader	
Cost Breakdown: %Utilization-machine:	ance –Motor -Water Scraper Wo Scraper 100	Grader:	CAT 1 Water	Tanker, 5,000 Ga Support Equ Load Area	ipment Dump Area	Motor Grader	
Cost Breakdown: %Utilization-machine:	-Water Scraper Wo Scraper 100	r Truck:	Water er	Tanker, 5,000 Ga Support Equ Load Area	ipment Dump Area	Motor Grader	
%Utilization-machine:	Scraper 100			Load Area	Dump Area	Motor Grader	
%Utilization-machine:	Scraper 100			Load Area	Dump Area	Motor Grader	
%Utilization-machine:	100				•		
						50	
Ownership cost/hour:	\$230.18	\$23	38.76	NA	NA	\$149.33	\$5
Operating cost/hour:	\$230.13		62.29	NA	NA	\$46.40	\$3
%Utilization-ripper:	NA	 	0	NA	NA	NA	φυ.
Ripper own. cost/hour:	NA	\$1	18.32	NA	NA	\$0.00	\$
Ripper op. cost/hour:	NA	\$	\$0.00	NA	NA	\$0.00	\$
Operator cost/hour:	\$30.90	\$4	41.30	NA	NA	\$28.56	\$2
Unit Subtotals:	\$542.29	\$46	60.67	NA	NA	\$224.28	\$11
Number of Units:	2		1	0	0	1	
Group Subtotals:	Work:	\$1,545.	.25	Support:	\$0.00	Maint:	\$335.7
Total work team cost/hour	:: <u>\$1,881.03</u>						
MATERIAL QUANTI	ITIES						
Initial volume: <u>1</u> , Loose volume:	,060 1,060		CCY LCY	Swell fac	tor: <u>1.000</u>		
Source of Source of esti	f estimated vo imated swell			n of Reclamation, or Estimate	Mining & Safety	1	
HOURLY PRODUCT	<u>10N</u>			С Т) and (malues -) D	aia.	
M . 1 . 1 . 20				-	Bowl (volume) Ba		CV
	055 lbs/LCY ser Provided				Volume: <u>15.70</u> Volume: <u>22.00</u>		.CY .CY
-	,800 pounds			Average			.CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	0.00	3.00	3.00	2824	0.75

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 0.75 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	0.00	3.00	3.00	2874	0.67
				Return Time:	0.67	minutes
				team cycle time:	2.42	minutes
			Adjusted fo	r job conditions:	387.90	LCY/Hour
			Selected Nun	nber of Scrapers:	2	Scraper(s)
	Adjusted s	ingle scrape	r team (unit) ho	ourly production:	775.81	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) ho	ourly production:	775.81	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		467.36	LCY/Hour		
OB TIN	ME AND COST					
Fleet	t size: 1	Team(s)	To	otal job time:	1.37	Hours
Unit	t cost: \$2.425	/LCY	Т	otal job cost:	\$2,570	

Site: New Elk Mine		Perm	it Action	:: <u>RN8</u>	I	Permit/Job#: <u>C1</u>	981012
PROJECT IDENT	IFICATION						
Task #: 041		tate: C	Colorado	1	Abbrev	viation: None	
Date: 10/20/2	2023 Cou	inty: I	Las Anin	nas	Fil	ename: 41	
User: AMG							
Agency or o	rganization name:	DRM	S				
HOURLY EQUIP	<u>MENT</u>			COSTS	Shift basis: <u>1 per</u>	day	
		T		ent Description			
		craper: Dozer:	Cat 62	7G /T - 9SU			
Suppor	t Equipment -Load		NA	1 - 950			
Suppor	-Dump		NA				
Road Mai	ntenance – Motor C	L. L	CAT 1				
	-Water	Truck:	Water '	Tanker, 5,000 Ga	l.		<u> </u>
Cost Breakdown:	Scraper Worl	k Team		Support Equ	ipment	Maintenand	e Equipment
	Scraper	Doz	er	Load Area	Dump Area	Motor Grader	Water True
%Utilization-machine:	100		100	NA	NA	50	
Ownership cost/hour:	\$230.18	\$2	238.76	NA	NA	\$149.33	\$57.
Operating cost/hour:	\$281.21	\$1	62.29	NA	NA	\$46.40	\$33.
%Utilization-ripper:	NA		0	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$	518.32	NA	NA	\$0.00	\$0.
Ripper op. cost/hour:	NA		\$0.00	NA	NA	\$0.00	\$0.
Operator cost/hour:	\$30.90	\$	541.30	NA	NA	\$28.56	\$21.
Unit Subtotals:	\$542.29	\$4	60.67	NA	NA	\$224.28	\$111.
Number of Units:	2		1	0	0	1	
Group Subtotals:	Work:	\$1,54	5.25	Support:	\$0.00	Maint:	\$335.78
Total work team cost/	hour: \$1,881.03						
MATERIAL QUA	NTITIE <u>S</u>						
Initial volume:	70		CCY	Swell fact	tor: 1.000		
Loose volume:	70		LCY				
Sour	ce of estimated vol	lume:	Divisior	n of Reclamation,	Mining & Safety	V	
	f estimated swell fa			r Estimate	-8 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	,	
HOURLY PRODU	CTION						
				Scraper E	Bowl (volume) Ba	asis:	
Material weight:	2,055 lbs/LCY			Struck	Volume: 15.70) I	.CY
Material description:	User Provided				Volume: 22.00		ĊY
Rated Payload:	52,800 pounds			Average			.CY .CY
Payload Capacity:	25.69 LCY				Capacity: 18.85		

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2000.00	0.00	3.00	3.00	2824	0.90

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **0.90** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2000.00	0.00	3.00	3.00	2874	0.81
				Return Time:	0.81	minutes
				team cycle time:	2.71	minutes
			Adjusted fo	r job conditions:	346.39	LCY/Hour
			Selected Nun	nber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	r team (unit) ho	ourly production:	692.79	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) ho	ourly production:	692.79	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		417.34	LCY/Hour		
OB TI	ME AND COST					
Fleet	t size: 1	Team(s)	То	otal job time:	0.10	Hours
Unit	t cost: \$2.715	/LCY	То	otal job cost:	\$190	

Site: New Elk Mine		Permit Action	: <u>RN8</u>	I	Permit/Job#: <u>C1</u>	981012
PROJECT IDENT	IFICATION					
Task #: 042	S	tate: Colorado		Abbre	viation: None	
Date: $10/20/2$		inty: Las Anin			ename: 42	
User: AMG		•				
Agency or or	ganization name:	DRMS				
HOURLY EQUIPM	<u>AENT</u>		COST	Shift basis: <u>1 per</u>	day	
			ent Description			
		craper: Cat 62' Dozer: Cat D9	/G T - 9SU			
Support	Equipment -Load		1)50			
	-Dump					
Road Mair	itenance –Motor C			1		
	-Water	I ruck: Water	Tanker, 5,000 Ga	al		
Cost Breakdown:	Scraper Wor	k Team	Support Equ	ipment	Maintenanc	e Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truc
%Utilization-machine:	100	100	NA	NA	50	4
Ownership cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57.1
Operating cost/hour:	\$281.21	\$162.29	NA	NA	\$46.40	\$33.2
%Utilization-ripper:	NA	0	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.0
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21.1
Unit Subtotals:	\$542.29	\$460.67	NA	NA	\$224.28	\$111.5
Number of Units:	2	1	0	0	1	
Group Subtotals:	Work:	\$1,545.25	Support:	\$0.00	Maint:	\$335.78
Total work team cost/h	nour: <u>\$1,881.03</u>					
MATERIAL QUA	NTITIES					
Initial volume:	600	CCY	Swell fac	tor: 1.000		
Loose volume:	600	LCY				
Source	e of estimated vol	lume: Division	of Reclamation	, Mining & Safety	y	
Source of	estimated swell fa	actor: Operato	r Estimate			
HOURLY PRODU	CTION					
			Scraper I	Bowl (volume) Ba	asis:	
Material weight:	2,055 lbs/LCY		Struck	Volume: 15.70) L	CY
Material description:	User Provided		-	Volume: 22.00		CY
Rated Payload:	52,800 pounds			Volume: <u>18.85</u>		CY
Rated Payload: Payload Capacity:	52,800 pounds 25.69 LCY		Average Adjusted			.CY .CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

5	Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1	2300.00	0.00	3.00	3.00	2824	1.00

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 1.00 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2300.00	0.00	3.00	3.00	2874	0.91
				Return Time:	0.91	minutes
			Total Scraper	team cycle time:	2.91	minutes
			Adjusted for	or job conditions:	322.59	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted s	ingle scraper	team (unit) ho	ourly production:	645.18	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) he	ourly production:	645.18	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		388.66	LCY/Hour		
	5 1	ers per push	388.66	LCY/Hour		

 Unit cost:
 \$2.916
 /LCY
 Total job cost:
 \$1,749

Site: New Elk Mine		Permit Actio	on: <u>RN8</u>	I	Permit/Job#: <u>C1</u>	981012
PROJECT IDENT	IFICATION					
Task #: 043		tate: Colorad	0		viation: None	
Date: 10/20/2	2023 Cou	inty: <u>Las Ani</u>	mas	Fil	ename: 43	
User: AMG						
Agency or o	rganization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	Shift basis: <u>1 per</u>	day	
			nent Description			
		craper: Cat 6				
Suppor	- t Equipment -Load		9T - 9SU			
Suppor	-Dump					
Road Main	ntenance – Motor C	Grader: CAT				
	-Water	Truck: Water	r Tanker, 5,000 Ga	ıl.		
Cost Breakdown:	Scraper Wor	k Team	Support Equ	inment	Maintenanc	e Equipment
COSt Di Caruowii,	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	50	5
Ownership cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57.1
Operating cost/hour:	\$281.21	\$162.29	NA	NA	\$46.40	\$33.2
%Utilization-ripper:	NA	0	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.0
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21.1
Unit Subtotals:	\$542.29	\$460.67	NA	NA	\$224.28	\$111.5
Number of Units:	2	1	0	0	1	
Group Subtotals:	Work:	\$1,545.25	Support:	\$0.00	Maint:	\$335.78
Total work team cost/	hour: \$1,881.03					
MATERIAL QUA	NTITIES					
Initial volume: Loose volume:	180 180	CCY LCY	Swell fac	tor: <u>1.000</u>		
	ce of estimated vo f estimated swell f		on of Reclamation, ndbook	Mining & Safety	/	
HOURLY PRODU	CTION					
			Scraper H	Bowl (volume) Ba	asis:	
Material weight:	2,055 lbs/LCY		Struck	Volume: 15.70) L	.CY
Material description:	User Provided		Heaped	Volume: 22.00) I	.CY
Rated Payload: Payload Capacity:	52,800 pounds 25.69 LCY			Volume: <u>18.85</u> Capacity: 18.85		LCY LCY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1100.00	5.00	3.00	8.00	1381	0.85

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 0.85 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1100.00	-5.00	3.00	-2.00	2938	0.44
				Return Time:	0.44	minutes
			Total Scraper	team cycle time:	2.29	minutes
			Adjusted for	r job conditions:	409.93	LCY/Hour
			Selected Num	ber of Scrapers:	2	Scraper(s)
	Adjusted s	ingle scrape	r team (unit) ho	urly production:	819.85	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) ho	urly production:	819.85	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		493.89	LCY/Hour		
OB TIM	ME AND COST					
Fleet	t size: 1	Team(s)	То	tal job time:	0.22	Hours
Unit	t cost: \$2.294	/LCY	To	otal job cost:	\$413	

Site:	New Elk Mine		Permit Action: _F			I	Permit/Job#: <u>C1</u>	981012
<u>PR</u>	ROJECT IDENT	IFICATION						
	Task #: 044	ç	State:	Colorado		Abbrey	viation: None	
	Date: $10/20/2$			Las Anin			ename: 44	
	User: AMG		J					
	Agency or or	rganization name:	DRM	/IS				
<u>H(</u>	DURLY EQUIPM	MENT			COSTS	Shift basis: <u>1 per</u>	day	
					ent Description			
			craper:	Cat 62				
	Support	t Equipment -Loa	Dozer: d Area:	NA	9T - 9SU			
		-Dumj	p Area:	NA				
	Road Main	ntenance – Motor (CAT 1		-		
		-Water	Truck:	Water	Tanker, 5,000 Ga	ıl.		
Co	st Breakdown:	Scraper Woi	rk Team		Support Equ	ipment	Maintenanc	e Equipment
		Scraper	Do	zer	Load Area	Dump Area	Motor Grader	Water Truc
%Util	lization-machine:	100		100	NA	NA	50	5
Own	ership cost/hour:	\$230.18	\$	238.76	NA	NA	\$149.33	\$57.1
-	erating cost/hour:	\$281.21	\$	162.29	NA	NA	\$46.40	\$33.2
	Utilization-ripper:	NA		0	NA	NA	NA	N
	r own. cost/hour:	NA		\$18.32	NA	NA	\$0.00	\$0.0
	per op. cost/hour:	NA		\$0.00	NA	NA	\$0.00	\$0.0
Op	perator cost/hour:	\$30.90		\$41.30	NA	NA	\$28.56	\$21.1
	Unit Subtotals:	\$542.29	\$	460.67	NA	NA	\$224.28	\$111.5
	Number of Units:	2	.	1	0	0	1	#225 5 0
	Group Subtotals:	Work:	\$1,54	45.25	Support:	\$0.00	Maint:	\$335.78
Tot	tal work team cost/l	10ur: <u>\$1,881.03</u>						
M	ATERIAL QUA	NTITIES						
	Initial volume: Loose volume:	1,950 1,950		CCY LCY	Swell fac	tor: <u>1.000</u>		
	Sourc	ce of estimated vo	lume:	Division	n of Reclamation,	Mining & Safety	y	
	Source of	f estimated swell f	factor:	Operato	r Estimate			
<u>H(</u>	DURLY PRODU	CTION						
					Scraper H	<u>Bowl (volume) Ba</u>	asis:	
	Material weight:	2,055 lbs/LCY			Struck	Volume: 15.70) L	CY
Ma	terial description:	User Provided			Heaped	Volume: 22.00) L	CY
_	Rated Payload:	52,800 pounds				Volume: 18.85		CY
	Payload Capacity:	25.69 LCY			Adjusted (Capacity: 18.85	а I	CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	0.00	3.00	3.00	2824	0.51

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 0.51 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	0.00	3.00	3.00	2874	0.43
				Return Time:	0.43	minutes
			Total Scraper	team cycle time:	1.94	minutes
			Adjusted for	or job conditions:	483.88	LCY/Hour
			Selected Nun	nber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	r team (unit) ho	ourly production:	967.76	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) ho	ourly production:	967.76	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		582.99	LCY/Hour		
OB TI	ME AND COST					
Fleet	t size: 1	Team(s)	Тс	otal job time:	2.01	Hours
Unit	t cost: \$1.944	/LCY	Te	otal job cost:	\$3,790	

Site: New Elk Mine		Permit Action	n: <u>RN8</u>	F	Permit/Job#: <u>C19</u>	981012
PROJECT IDEN	TIFICATION					
Task #: 045	S	State: Colorado)	Abbrev	viation: None	
		unty: Las Anir	nas	Fil	ename: 45	
User: AMC	r					
Agency or	organization name:	DRMS				
HOURLY EQUI	<u>PMENT</u>		COSTS	Shift basis: <u>1 per</u>	day	
			ent Description			
		craper: Cat 62				
Suppo	- ort Equipment -Load		9T - 9SU			
Sappe		o Area: NA				
Road Ma	aintenance – Motor (-		
	-Water	Truck: Water	Tanker, 5,000 Ga	1.		
Cost Breakdown:	Scraper Wor	·k Team	Support Equ	inment	Maintenanc	e Equipment
<u>cost Di cundo (m</u> i	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	50	5
Ownership cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57.1
Operating cost/hour:	\$281.21	\$162.29	NA	NA	\$46.40	\$33.2
%Utilization-ripper:	NA	0	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0.0
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.0
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21.1
Unit Subtotals:	\$542.29	\$460.67	NA	NA	\$224.28	\$111.5
Number of Units:	2	1	0	0	1	
Group Subtotals:	Work:	\$1,545.25	Support:	\$0.00	Maint:	\$335.78
Total work team cos	t/hour: <u>\$1,881.03</u>					
MATERIAL QUA	ANTITIES					
Initial volume	: 27,824	CCY	Swell fact	or: 1.000		
Loose volume	: 27,824	LCY				
Soι	arce of estimated vo	lume: Map 11	sheet 3; Permit p	bage 2.05-38		
Source	of estimated swell f	actor: Operato	or Estimate			
HOURLY PROD	UCTION					
<u>HOUKLI I KOD</u>			с г	-1(-1)		
			-	Bowl (volume) Ba		
Material weight:				Volume: <u>15.70</u> Volume: <u>22.00</u>		CY
Material description:	User Provided		Heaped	CY		
Rated Payload:	52,800 pounds		Average	Volume: 18.85	т	CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	3.00	0.00	2921	0.30
2	650.00	2.00	3.00	5.00	2218	3.08
3	2200.00	7.00	3.00	10.00	1068	1.81
4	600.00	8.00	3.00	11.00	1018	0.59

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **5.78** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time
		(%)	(%)	(%)	(fpm)	(min)
1	600.00	-8.00	3.00	-5.00	2938	0.27
2	2200.00	-7.00	3.00	-4.00	2938	0.80
3	650.00	-2.00	3.00	1.00	2913	0.22
4	500.00	3.00	3.00	6.00	2736	0.19

Return Time:	1.48	minutes
Total Scraper team cycle time:	8.26	minutes
Adjusted for job conditions:	113.65	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	227.30	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	227.30	LCY/Hour

Unadjusted unit production/hour: <u>136.92</u> LCY/Hour Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	122.41	Hours
Unit cost:	\$8.276	/LCY	Total job cost:	\$230,263	

Site: New I	Elk Mine		Permit Actio			I	Permit/Job#: <u>C1</u>	981012
PROJE	CT IDENT	IFICATION						
Task	#: 046	S	tate:	Colorado		Abbrev	viation: None	
Dat		2023 Cou	inty:	Las Anin	nas	Fil	ename: 46	
Use	er: AMG							
	Agency or of	rganization name:	DRM	IS				
<u>HOURL</u>	Y EQUIPN	<u>MENT</u>			COST	Shift basis: <u>1 per</u>	<u>day</u>	
					ent Description			
			craper: Dozer:	Cat 62 Cat D9	/G T - 9SU			
	Suppor	t Equipment -Load		NA	1)50			
			Area:	NA				
	Road Main	ntenance –Motor (-Water		CAT 1	4M Tanker, 5,000 Ga	1		
		- water	TTUCK.	water	1 alikel, 5,000 Ga			
Cost Brea	akdown:	Scraper Wor	k Team		Support Equ	ipment	Maintenan	ce Equipment
		Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water Truc
%Utilization	-machine:	100		100	NA	NA	50	5
Ownership	cost/hour:	\$230.18	\$2	238.76	NA	NA	\$149.33	\$57.1
Operating	cost/hour:	\$281.21	\$	162.29	NA	NA	\$46.40	\$33.2
%Utilizat	ion-ripper:	NA		100	NA	NA	NA	N
Ripper own.		NA		\$18.32	NA	NA	\$0.00	\$0.0
Ripper op.		NA		\$8.98	NA	NA	\$0.00	\$0.0
1	cost/hour:	\$30.90		\$41.30	NA	NA	\$28.56	\$21.1
	Subtotals:	\$542.29	\$4	469.65	NA	NA	\$224.28	\$111.5
	r of Units:	2		1	0	0	1	#225.5 0
Group	Subtotals:	Work:	\$1,55	4.23	Support:	\$0.00	Maint:	\$335.78
		hour: <u>\$1,890.01</u>						
	IAL QUA	<u>NTTTIES</u> 3,580		CCY	Swell fac	tor: 1.000		
Loc	ose volume:	3,580		LCY				
	Sour	ce of estimated vo	lume:	PAP ma	p 11 sheet 3; 5.5	acres		
	Source of	f estimated swell f	actor:	Cat Han	dbook			
HOURL	Y PRODU	CTION						
					Scraper I	Bowl (volume) Ba	asis:	
	rial weight:	2,055 lbs/LCY				Volume: <u>15.70</u>		LCY
Material of	rial weight: lescription: ed Payload:	2,055 lbs/LCY User Provided 52,800 pounds			Heaped	Volume: 15.70 Volume: 22.00 Volume: 18.85) I	LCY LCY LCY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-3.00	3.00	0.00	2921	0.30
2	650.00	2.00	3.00	5.00	2218	3.08
3	2200.00	7.00	3.00	10.00	1068	1.81
4	450.00	-15.00	3.00	-12.00	1749	0.36

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: 5.55 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time
		(%)	(%)	(%)	(fpm)	(min)
1	450.00	15.00	3.00	18.00	990	0.47
2	2200.00	-7.00	3.00	-4.00	2938	0.80
3	650.00	-2.00	3.00	1.00	2913	0.22
4	500.00	3.00	3.00	6.00	2736	0.19

Return Time:	1.68	minutes
Total Scraper team cycle time:	8.23	minutes
Adjusted for job conditions:	114.06	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	228.12	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	228.12	LCY/Hour
- linet doubt and doubt a fraction of a company of the company of		

Unadjusted unit production/hour: 137.42 LCY/Hour Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	15.69	Hours
Unit cost:	\$8.285	/LCY	Total job cost:	\$29,660	

Site: New Elk Mine		Permit	Action:	RN8	I	Permit/Job#: <u>C1</u>	981012
PROJECT IDENT	IFICATION						
Task #: 047	St	tate: Co	olorado		Abbrev	viation: None	
Date: <u>10/20/</u> User: AMG	2023 Cou	inty: La	is Anim	as	Fil	ename: 47	
	rganization name:	DRMS					
rigency of o	iguinzation name.	Dittib					
HOURLY EQUIP	MENT_			COSTS	Shift basis: <u>1 per</u>	day	
				ent Description			
			Cat 627 Cat D9				
Suppor	t Equipment -Load		NA	1 - 930			
	-Dump		NA				
Road Man	ntenance –Motor G -Water		CAT 14 Water T	IM Tanker, 5,000 Ga	1		
	, tutor	Truck.	Water 1		1.		
<u>Cost Breakdown</u> :	Scraper Worl			Support Equi			e Equipment Water Truc
	Scraper	Dozei	r	Load Area	Dump Area	Motor Grader	water Truc
%Utilization-machine:	100		100	NA	NA	50	4
Ownership cost/hour:	\$230.18		8.76	NA	NA	\$149.33	\$57.1
Operating cost/hour:	\$281.21	\$16	2.29	NA	NA	\$46.40	\$33.2
%Utilization-ripper: Ripper own. cost/hour:	NA NA	\$	NA 0.00	NA NA	NA NA	NA \$0.00	N \$0.0
Ripper op. cost/hour:	NA	•	0.00	NA	NA	\$0.00	\$0.0
Operator cost/hour:	\$30.90		1.30	NA	NA	\$28.56	\$21.1
Unit Subtotals:	\$542.29		2.35	NA	NA	\$224.28	\$111.5
Number of Units:	2		1	0	0	1	
Group Subtotals:	Work:	\$1,526.	93	Support:	\$0.00	Maint:	\$335.78
Total work team cost/	hour: \$1,862.71						
MATERIAL QUA	NTITIES						
Initial volume:	1,975	C	CCY	Swell fact	or: 1.000		
Loose volume:	1,975	L	.CY				
	ce of estimated vol				Mining & Safety	1	
Source of	f estimated swell fa	actor: <u>C</u>	Cat Hand	lbook			
HOURLY PRODU	UCTION						
				Scraper E	Bowl (volume) Ba	asis:	
Material weight:	2,055 lbs/LCY			-	Volume: 15.70		CY
Material description:	User Provided				Volume: 22.00		ĊY
Rated Payload:	52,800 pounds			Average Adjusted (Volume: 18.85		CY
Payload Capacity:	25.69 LCY				Capacity: 18.85		CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	10.00	3.00	13.00	834	3.01

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **3.01** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	-10.00	3.00	-7.00	2938	0.90
				Return Time:	0.90	minutes
			Total Scraper	team cycle time:	4.91	minutes
			Adjusted fo	r job conditions:	191.19	LCY/Hour
			Selected Num	ber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	r team (unit) ho	urly production:	382.37	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) ho	urly production:	382.37	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		230.35	LCY/Hour		
OB TI	ME AND COST					
Fleet	t size: 1	Team(s)	То	tal job time:	5.17	Hours
Unit	t cost: \$4.871	/LCY	Тс	otal job cost:	\$9,621	

Site: New	Elk Mine		Permit Activ	on: <u>RN8</u>	I	Permit/Job#: <u>C1</u>	981012
PROJE	<u>CT IDENT</u>	IFICATION					
Task	#: 048	S	State: Colorad	do	Abbre	viation: None	
Da	te: 10/20/2		unty: Las An	imas	Fil	ename: 48	
Us	er: AMG						
	Agency or o	rganization name:	DRMS				
<u>HOURI</u>	<u>AY EQUIPI</u>	MENT		COST	Shift basis: <u>1 per</u>	day	
				ment Description			
			craper: Cat 6				
	Suppor	t Equipment -Loa		09T - 9SU			
	Suppor		p Area: NA				
	Road Main	ntenance – Motor		14M			
		-Water	Truck: Wate	er Tanker, 5,000 Ga	al.		
<u>Cost Bre</u>	akdawn•	Scraper Wor	rk Team	Support Equ	inment	Maintenan	ce Equipment
Cost Die	<u>akuuwn</u> .	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truc
%Utilization	n-machine:	100	100	NA	NA	50	5
Ownership	cost/hour:	\$230.18	\$238.76	NA	NA	\$149.33	\$57.1
Operating	cost/hour:	\$281.21	\$162.29	NA	NA	\$46.40	\$33.2
%Utilizat	ion-ripper:	NA	0	NA	NA	NA	N
Ripper own.	cost/hour:	NA	\$18.32	NA	NA	\$0.00	\$0.0
Ripper op.	cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.0
Operator	cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21.1
Unit	Subtotals:	\$542.29	\$460.67	NA	NA	\$224.28	\$111.5
Numbe	er of Units:	2	1	0	0	1	
Group	Subtotals:	Work:	\$1,545.25	Support:	\$0.00	Maint:	\$335.78
Total wor	k team cost/	hour: <u>\$1,881.03</u>					
MATER	RIAL QUA	NTITIES					
	tial volume:	1,150	CCY	Swell fac	tor: 1.000		
Lo	ose volume:	1,150	LCY				
	Sour	ce of estimated vo	lume: <u>Div</u> isi	on of Reclamation	, Mining & Safety	/	
	Source of	f estimated swell f	factor: Opera	tor Estimate			
<u>HOURI</u>	<u>AY PRODU</u>	CTION					
				Scraper 1	Bowl (volume) Ba	asis:	
Mate	rial weight:	2,055 lbs/LCY		Struck	Volume: 15.70) <u> </u>	.CY
Material	description:	User Provided			Volume: 22.00		.CY
	ed Payload:	52,800 pounds			Volume: 18.85		LCY CV
Pavloa	d Capacity:	25.69 LCY		Adjusted	Capacity: 18.85		.CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7500 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	10.00	3.00	13.00	834	3.01

0.40 Minutes

<u>0.60</u> Minutes

Haul Time: **3.01** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2500.00	-10.00	3.00	-7.00	2938	0.90
				Return Time:	0.90	minutes
			1	team cycle time:	4.91	minutes
			Adjusted for	or job conditions:	191.19	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted s	single scrape	r team (unit) ho	ourly production:	382.37	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) he	ourly production:	382.37	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap			LCY/Hour		
JOB TIN	ME AND COST					
Fleet	t size: 1	Team(s)	То	otal job time:	3.01	Hours
Unit	cost: \$4.919	/LCY	Т	otal job cost:	\$5,657	

Site: New Elk Mine		Permit Action	n: <u>RN8</u>	I	Permit/Job#: <u>C1</u>	981012
PROJECT IDEN	TIFICATION					
Task #:049	Sta	te: <u>Colorado</u>)	Abbrev	viation: None	
	0/2023 Coun	ty: Las Anir	nas	Fil	ename: 49	
User: AMG	i					
Agency or	organization name:	DRMS				
HOURLY EQUI	PMENT		COSTS	Shift basis: <u>1 per</u>	dav	
		Fauinm	ent Description		<u>/</u>	
	-Scr	1 1	7G w/push-pull			
	-D	ozer: Cat D	9T - 9SU			
Suppo	ort Equipment -Load A					
Pood Ma	-Dump A intenance –Motor Gr		4M			
Koad Wia	-Water T		Tanker, 5,000 Ga	1.		
Cost Breakdown:	Scraper Work		Support Equ			e Equipment Water True
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	water True
%Utilization-machine:	100	100	NA	NA	50	
Ownership cost/hour:	\$249.04	\$238.76	NA	NA	\$149.33	\$57.
Operating cost/hour:	\$289.36	\$162.29	NA	NA	\$46.40	\$33.
%Utilization-ripper:	NA	NA	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.
Operator cost/hour:	\$30.90	\$41.30	NA	NA	\$28.56	\$21.
Unit Subtotals:	\$569.30	\$442.35	NA	NA	\$224.28	\$111.
Number of Units:	2	1	0	0	1	
Group Subtotals:	Work:	\$1,580.95	Support:	\$0.00	Maint:	\$335.78
Total work team cost	t/hour: \$1,916.73					
MATERIAL QUA	NTITIES					
		COL		1 105		
Initial volume Loose volume		CCY LCY	Swell fact	tor: <u>1.125</u>		
	rce of estimated volu of estimated swell fac		n of Reclamation, or Estimate	winning & Safety	4	
Source						
HOURLY PROD	<u>UCTION</u>					
			Scraper E	<u>Bowl (volume) Ba</u>	asis:	
Material weight:	2,055 lbs/LCY		Struck	Volume: <u>15.70</u>		.CY
Material description:			-	Volume: 22.00		.CY
Rated Payload: Payload Capacity:	· · ·		Average Adjusted (.CY .CY

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 7600 feet

	Scraper	Push Dozer	Source
Altitude Adj:	0.960	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.797	0.830	

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

S	eg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1		1000.00	5.00	3.00	8.00	1381	0.78

<u>0.90</u> Minutes

<u>0.60</u> Minutes

Haul Time: 0.78 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-5.00	3.00	-2.00	2938	0.41
				Return Time:	0.41	minutes
			Total Scraper	team cycle time:	2.69	minutes
			Adjusted for	or job conditions:	670.19	LCY/Hour
			Selected Nur	mber of Scrapers:	2	Scraper(s)
	Adjusted s	ingle scrape	r team (unit) h	ourly production:	670.19	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) h	ourly production:	670.19	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		840.89	LCY/Hour		
	ME AND COST	T ()				
Fleet	size: 1	Team(s)	T	otal job time:	67.00	Hours

 Unit cost:
 \$2.860
 /LCY
 Total job cost:
 \$128,416

COMPACTION WORK

Task description:	Compact Final RDA Surface				
te: New Elk Mine	Permit Action:	RN8		Permit/Job#:	C1981012
PROJECT IDENTIFICA	TION				
Task #: 050	State: Colorado		Abbr	eviation: No	one
Date: 10/20/2023	County: Las Animas		F	Filename: 50	
User: <u>AMG</u>					
Agency or organiza	tion name: DRMS				
HOURLY EQUIPMENT	COST				
Basic Machine:	CAT 815F		lorsepower:	240	
Compactor Type:	Soil - tamping foot		Shift Basis:	1 per d	
		D	ata Source:	(CRG	·)
Cost Breakdown:		I			
Ourorshi	p Cost/Hour: \$147.5		ilization % NA		
	p Cost/Hour: \$147.5 g Cost/Hour: \$117.1		100		
	or Cost/Hour: \$26.02		NA		
Total Un	it Cost/Hour: \$290.7	8			
Total Flee	et Cost/Hour: \$290.7	8			
MATERIAL QUANTITI	FS				
Loose volume:	26,250	LCY	Shr	inkage factor:	0.870
Compacted volume:	22,838	CCY		8	
Source	of estimated volume: 8.13 ac	re RDA surface	X 2 ft. lift		
		ndbook			
HOURLY PRODUCTIO	N	Unadiusted h	ourly produc	tion = (W x S x	$(L \mathbf{x} \mathbf{C}) / \mathbf{P}$
	ted width per pass (W):	6.50	feet		<u>II </u>
	e Compactor Speed (S):	4.00	mph		
	ickness of each lift (L):	8.00	inches		
	onversion Constant (C):	16.3	(5,280f	t./12in./27cu.ft.	.)
1	of machine passes (P):	4	passes		
·	Iourly Unit Production:	847.60	CCY/ho	our	
Job Condition Correction Fac		Site Altitude:	<u>/,500</u> feet		
Altitude Adj:	Source1.00(CAT HB)				
Job Efficiency:	0.83 (1 shift/day)				
Net Correction:	0.8300 multiplier				
	ted Hourly Unit Production:	703.51	CCY/Hour		
	ted Hourly Fleet Production:	703.51 703.51	CCY/Hour		
IOD TIME AND COST					
JOB TIME AND COST Fleet size: 1	Compactor(s)	Total i	ob time:	32.46	Hours
Unit cost: \$0.413	per CCY	Total j	ob cost:	\$9,439	

SAFEGUARDING UNDERGROUND OPENINGS

1	Task description:	Seal Portals	and Vent Shaf	ts			
Site:	New Elk Mine]	Permit Action:	RN8	Permit	Job#:	C1981012
<u>PROJE(</u>	CT IDENTIFICATION	<u>N</u>					
Task # Date User	:: 10/20/2023	State: County:	Colorado Las Animas		Abbreviation: Filename:	None 51	
	Agency or organiza	tion name:	DRMS				

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Seal East Portal	12'X10'	Adit closure - bulkhead seal, >= 36 sq. ft. (per sq. ft.)	120.00	SF	\$429.32	\$51,518.40
Backfill East Portal	12'X10'X50'	Adit closure - backfilling (per cu. yd.)	222.00	СҮ	\$90.00	\$19,980.00
Drain Pipe	100 LF	PVC drain pipe, 6 in. diameter (per ln. ft. incl. mat. & labor)	100.00	LF	\$11.85	\$1,185.00
Seal West Portals (2)	15'X10'	Adit closure - bulkhead seal, >= 36 sq. ft. (per sq. ft.)	300.00	SF	\$429.32	\$128,796.00
Backfill West Portals (2)	600 CY	Adit closure - backfilling (per cu. yd.)	600.00	CY	\$90.00	\$54,000.00
Drain Pipes	100 LF (2)	PVC drain pipe, 6 in. diameter (per ln. ft. incl. mat. & labor)	200.00	LF	\$11.85	\$2,370.00
Seal Bates Portals (3)	14'X18'	Adit closure - bulkhead seal, >= 36 sq. ft. (per sq. ft.)	756.00	SF	\$429.32	\$324,565.92
Backfill Bates Portals (3)	14'X18'X50'	Adit closure - backfilling (per cu. yd.)	466.00	CY	\$90.00	\$41,940.00
Drain Pipes (3)	100 LF (3)	PVC drain pipe, 6 in. diameter (per ln. ft. incl. mat. & labor)	300.00	LF	\$11.85	\$3,555.00
East Portal Fan Shaft Concrete Cap	16' D	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	200.00	CF	\$31.50	\$6,300.00
Apache Canyon East Shaft Concrete Cap	16" D	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	200.00	CF	\$31.50	\$6,300.00
Apache Canyon West Shaft Concrete Cap	16" D	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	200.00	CF	\$31.50	\$6,300.00

Job Hours: 270.00

Total Cost: \$646,810.32

MOTOR GRADER WORK

Task description:	Regrading 30,00	0 LCY Refu	ise (RDA)		
te: New Elk Mine	Per	mit Action:	RN8	F	ermit/Job#: <u>C198101</u>
PROJECT IDENTI	FICATION				
Task #: 052	State:	Colorado		Abbre	viation: None
Date: $10/20/20$		Las Anima	S		lename: 52
User: AMG	<u>25</u> County.	Lus / tillitu	.0		<u>52</u>
Agency or org	ganization name: <u>DR</u>	MS			
HOURLY EQUIPM	ENT COST				
Basic Machi	ine: CAT 16M			Horsepower:	297
Ripper Attachm		oper		Shift Basis:	1 per day
		- r		Data Source:	(CRG)
Cost Breakdown:					()
COSt Diedkuowii.				Utilization %	
Ow	nership Cost/Hour:		\$212.21	NA	
	erating Cost/Hour:		\$124.88	100	
	nership Cost/Hour:		\$5.83	NA	
	erating Cost/Hour:		\$4.02	100	
	perator Cost/Hour:		\$28.56	NA	
	al Unit Cost/Hour:		\$375.50	,	
T~4.	al Fleet Cost/Hour:	\$751	00		
100		\$751	.00		
MATERIAL QUAN	TITIFS				
Total Are	a to be graded or ripped	d: <u>19.00</u>			acres
Sou	rce of estimated acreage	e: Operato	or provided		
			1		
HOURLY PRODUC	<u>CTION</u>				
	Average Grader Spe	eed:	1.50	mph	
	Selected Applicat	ion:	Finish	grading (0-2.5 mpl	h) - 1.5
	Selected Blade An		0	degrees	
	Effective Blade Len	·	16.00	feet	
	n of blade overlap per p		2.00	feet	
	g or ripping width per p		14.00	feet	
Unadjuste	ed Hourly Unit Product	ion:	2.5455	acres/hou	ır
Job Condition Correction	on Factors		S	ite Altitude: <u>7680</u>	feet
		Source			
Altitude Adj:	1.00	(CAT HB			
Job Efficiency:		(1sh/d, fav			
Net Correction:		multiplier			
		-			
	Adjusted Hourly Unit I		2.2909	acres/Hour	
1	Adjusted Hourly Fleet I	Production:	4.5818	acres/Hour	
JOB TIME AND CO	<u> 181</u>				
Fleet size:	2 Grader(s)		Total job time	. 4.15	Hours
Unit cost:	162.01		Total ish as -	ι. Φ2 11 <i>4</i>	
Unit cost: \$	163.91 per acre		Total job cost	t: \$3,11 4	•

MOTOR GRADER WORK

Task description:	Finish Grade R	efuse Dispos	al Area			
e: <u>New Elk Mine</u>	P	ermit Action:	RN8	I	Permit/Job#: <u>C1</u>	981012
PROJECT IDENTIF	<u> ICATION</u>					
Task #: 053	State:	Colorado		Abbre	viation: None	
Date: 10/20/202	23 County:	Las Anima	ıs		lename: 53	
User: AMG	<u></u>					
Agency or orga	anization name: D	RMS				
HOURLY EQUIPM	ENT COST					
Basic Machin	ne: CAT 14M			Horsepower:	259	
Ripper Attachme	nt:			Shift Basis:	1 per day	
				Data Source:	(CRG)	
Cost Breakdown:						
<u>COSt Dicardown:</u>				Utilization %		
Own	ership Cost/Hour:		\$149.33	NA		
	erating Cost/Hour:		\$92.79	100		
	ership Cost/Hour:		\$0.00	NA		
	erating Cost/Hour:		\$0.00			
Öp	erator Cost/Hour:		\$28.56	NA		
Tota	al Unit Cost/Hour:		\$270.68			
Τ-4-	1 Elect Cent/II	\$ 37 (. (9			
10ta	l Fleet Cost/Hour:	\$270	.08			
MATERIAL QUAN	<u> CITIES</u>					
Total Area	to be graded or ripp	ed: 8.30			acres	
	• • • •		I			
Source	ce of estimated acrea	ge: Map 11	l			
HOURLY PRODUC	TION					
	Average Grader S	peed:	1.50	mph		
	Selected Applica	·	Finish g	grading (0-2.5 mp	h) - 1.5	
	Selected Blade A		30	degrees		
	Effective Blade Le	· · · · · · · · · · · · · · · · · · ·	12.10	feet		
	of blade overlap per		2.00	feet		
5 5	or ripping width per	-	10.10	feet		
Unadjuste	d Hourly Unit Produc	ction:	1.8364	acres/hou	ır	
Job Condition Correction	n Factors		S	ite Altitude: <u>7500</u>	feet	
		Source				
Altitude Adj:	1.00	(CAT HE				
Job Efficiency:	0.85	(1sh/d, mo				
Net Correction:	0.8500	multiplier				
Δ	Adjusted Hourly Unit	Production	1.5609	acres/Hour		
	djusted Hourly Fleet		1.5609	acres/Hour		
	agastea mounty moot	- 100000000	1.0007	ueres, 110ul		
JOB TIME AND CO	<u>'ST</u>					
Fleet size:	1 Grader(s))	Total job time	5.32	Hours	
Unit cost: \$1	73.41 per acre		Total job cost	: \$1,439		
	73.41 per acre		i otal job cost	. 91,439	•	

MOTOR GRADER WORK

Task description	i: Finis	sh Grade W	est DWDA	Area			
e: New Elk Min	ie	Pe	rmit Action:	RN8		Permit/Job#	: <u>C1981012</u>
PROJECT IDE	ENTIFICATIO	<u>DN</u>					
Task #: 05	4	State:	Colorado		Abbre	eviation: 1	None
	/20/2023	County:	Las Anima	IS			54
	MG	county.	Lus / minit				
Agency	or organization	name: DF	RMS				
HOURLY EQU	JIPMENT CO	<u>ST</u>					
Basic	Machine: CA	T 14M			Horsepower:	25	9
Ripper Att				_	Shift Basis:	l per	
Tupper tu					Data Source:	(CR	
							-)
Cost Breakdown:				1			
	o 11 0			¢1.40.22	Utilization %		
	Ownership Co			\$149.33	NA		
	Operating Co			\$92.79	100		
	er Ownership Co			\$0.00	NA		
Rıpp	ber Operating Co			\$0.00	214		
	Operator Co			\$28.56	NA		
	Total Unit Co	st/Hour:		\$270.68			
	Total Fleet Co	st/Hour	\$270	68			
Tot	al Area to be gra	ded or rippe	ed: 10.20			8	acres
	Source of estir	nated acreag	e: NECC				
HOURLY PRO	DDUCTION						
		ge Grader Sp		1.50	mph		
		ted Application			grading (0-2.5 mp	oh) - 1.5	
		ted Blade Ar		45	degrees		
		ve Blade Ler	U	9.90	feet		
	Width of blade			2.00	feet		
	rading or ripping			7.90	feet		
Una	adjusted Hourly	Unit Produc	tion:	1.4364	acres/ho	ur	
Job Condition Co	rrection Factors			S	Site Altitude: <u>7680</u>	<u>)</u> feet	
		1	Source				
Altitud		.00	(CAT HE				
Job Effic		.85	(1sh/d, mo	d.)			
Net Corre	ection: 0.8	3500	multiplier				
	Adjusted I	Iourly Unit	Production	1.2209	acres/Hour		
	0	lourly Fleet		1.2209	acres/Hour		
	i ajustea II	iourry ricet.		1,220/			
JOB TIME AN	D COST						
Fleet size:	1	_ Grader(s)		Total job time	8.35	I	Hours
Unit cost:	\$221.70	per acre		Total job cost	t: \$2,26	1	
		1		5			

HYDRAULIC EXCAVATOR WORK

New Filz Mine	De	ermit Action:	RN8	Permit/Io	b#: C1981012
New Elk Mine			1/1/0	1 CI IIII/ JO	or. <u>01901012</u>
PROJECT IDENTIF					
Task #: 055	State:	Colorado		Abbreviation:	None
Date: 10/20/202 User: AMG	23 County:	Las Animas	3	Filename:	55
Agency or orga	anization name: D	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine:	Cat 315D L 8'-6"	Stick	Hor	sepower:	115
Attachment 1:	ROPS Cab				17.32
					per day
			Dau	a source: (CRG)
<u>Cost Breakdown:</u>			Utilization %		
Ownership Cost	/Hour: \$77.		NA		
Operating Cost	/Hour: \$52.	.37	100		
Operator Cost			NA		
Total Unit Cost	Hour: \$166	5.77			
Total Fleet Cos	t/Hour: \$160	5.77			
MATERIAL QUAN					
	4,000	$- \frac{CCY}{LCY}$	Swell factor:	1.000	
Loose volume:	4,000	LCY			
	of estimated volume:	1			
	of estimated volume: stimated swell factor:				
Source of e	stimated swell factor:				
Source of e	stimated swell factor: <u>TION</u>	Cat Handb	book		
Source of e	stimated swell factor: TION oad bucket, swing loa	Cat Handb	oook cket, swing empty):		
Source of e	stimated swell factor: TION oad bucket, swing loa	Cat Handb aded, dump bu Basic Job Con	oook cket, swing empty): dition Description:	AVERAGE	
Source of e	stimated swell factor: TION oad bucket, swing loa	Cat Handb aded, dump bu Basic Job Con ndition within	oook cket, swing empty): dition Description: Basic Description:	AVERAGE AVERAGE	
Source of e HOURLY PRODUC Excavator Cycle Time (1	stimated swell factor: TION oad bucket, swing loa	Cat Handb aded, dump bu Basic Job Con ndition within	oook cket, swing empty): dition Description:	AVERAGE	minutes
Source of e	stimated swell factor: TION oad bucket, swing loa	Cat Handb aded, dump bu Basic Job Con ndition within	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value:	AVERAGE AVERAGE 0.256	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity	stimated swell factor: <u>TION</u> oad bucket, swing loa Secondary Job Co	Cat Handb aded, dump bu Basic Job Con ndition within	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Bud	AVERAGE AVERAGE 0.256	_ minutes
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci	stimated swell factor: <u>TION</u> <u>oad bucket, swing los</u> Secondary Job Co ty: <u>0.80</u>	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped)	AVERAGE AVERAGE 0.256 cket Size Class:	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity	stimated swell factor: <u>TION</u> <u>oad bucket, swing loa</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u>	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Bud	AVERAGE AVERAGE 0.256 cket Size Class:	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci	stimated swell factor: <u>TION</u> <u>oad bucket, swing loa</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u> ty: 0.82	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ear	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped) rth Mixture (100%-	AVERAGE AVERAGE 0.256 cket Size Class: 105%) 1.025	-
Source of e <u>HOURLY PRODUC</u> Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact	stimated swell factor: <u>TION</u> <u>oad bucket, swing loa</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u> ty: 0.82	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ean LCY	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped) rth Mixture (100%-	AVERAGE AVERAGE 0.256 cket Size Class:	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci	stimated swell factor: <u>TION</u> <u>oad bucket, swing loa</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u> ty: <u>0.82</u> <u>n Factors</u>	Exact Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ean LCY Source	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buo ped) rth Mixture (100%- Site Alt	AVERAGE AVERAGE 0.256 cket Size Class: 105%) 1.025	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj:	stimated swell factor: <u>TION</u> <u>oad bucket, swing loa</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u> ty: <u>0.82</u> <u>n Factors</u>	Exact Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ean LCY Source (CAT HB)	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped) rth Mixture (100%- Site Alt	AVERAGE AVERAGE 0.256 cket Size Class: 105%) 1.025	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency:	stimated swell factor: <u>TION</u> <u>oad bucket, swing los</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u> ty: <u>0.82</u> <u>n Factors</u> <u>0.90</u> <u>0.83</u>	Exact Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ear LCY LCY Source (CAT HB) (1 shift/day	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped) rth Mixture (100%- Site Alt	AVERAGE AVERAGE 0.256 cket Size Class: 105%) 1.025	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	stimated swell factor: <u>TION</u> <u>oad bucket, swing loa</u> Secondary Job Co ty: <u>0.80</u> or: <u>1.025</u> ty: <u>0.82</u> <u>n Factors</u> <u>0.90</u> <u>0.83</u> <u>0.75</u>	Exact Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ear CAT HB) (1 shift/day multiplier	oook cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped) rth Mixture (100%- Site Alt	AVERAGE AVERAGE 0.256 cket Size Class: <u>M</u> 105%) 1.025 titude: <u>7820</u> feet	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Un	stimated swell factor: TION oad bucket, swing los Secondary Job Co ty: 0.80 or: 1.025 ty: 0.82 n Factors $ \begin{array}{r} 0.90 \\ 0.83 \\ 0.75 \\ \end{array} $ adjusted Hourly Unit	Exact Handb Exact A dump bu Basic Job Con ndition within LCY (heap Rock - Ear LCY Source (CAT HB) (1 shift/day multiplier Production:	book cket, swing empty): dition Description: Basic Description: Cycle Time Value: Buc ped) rth Mixture (100%- Site Alt)) 192.19	AVERAGE AVERAGE 0.256 cket Size Class: <u>M</u> 105%) 1.025 itude: <u>7820</u> feet	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Un	stimated swell factor: TION oad bucket, swing los Secondary Job Co ty: 0.80 or: 1.025 ty: 0.82 n Factors 0.90 0.83 0.75 adjusted Hourly Unit Adjusted Hourly Unit	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ean LCY Source (CAT HB) (1 shift/day multiplier Production: Production:	book cket, swing empty): idition Description: Basic Description: Cycle Time Value: Bud ped) rth Mixture (100%- Site Alt) () 192.19 143.56	AVERAGE AVERAGE 0.256 cket Size Class: <u>M</u> 105%) 1.025 citude: <u>7820</u> feet LCY/Hour LCY/Hour	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Un A	stimated swell factor: TION oad bucket, swing los Secondary Job Co ty: 0.80 or: 1.025 ty: 0.82 n Factors 0.90 0.83 0.75 adjusted Hourly Unit Adjusted Hourly Unit adjusted Hourly Unit	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ean LCY Source (CAT HB) (1 shift/day multiplier Production: Production:	book cket, swing empty): idition Description: Basic Description: Cycle Time Value: Bud ped) rth Mixture (100%- Site Alt) 192.19 143.56	AVERAGE AVERAGE 0.256 cket Size Class: <u>M</u> 105%) 1.025 itude: <u>7820</u> feet	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Un	stimated swell factor: TION oad bucket, swing los Secondary Job Co ty: 0.80 or: 1.025 ty: 0.82 n Factors 0.90 0.83 0.75 adjusted Hourly Unit Adjusted Hourly Unit adjusted Hourly Unit	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ean LCY Source (CAT HB) (1 shift/day multiplier Production: Production:	book cket, swing empty): idition Description: Basic Description: Cycle Time Value: Bud ped) rth Mixture (100%- Site Alt) () 192.19 143.56	AVERAGE AVERAGE 0.256 cket Size Class: <u>M</u> 105%) 1.025 citude: <u>7820</u> feet LCY/Hour LCY/Hour	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Un A	stimated swell factor: TION oad bucket, swing los Secondary Job Co ty: 0.80 or: 1.025 ty: 0.82 n Factors 0.90 0.83 0.75 adjusted Hourly Unit Adjusted Hourly Unit adjusted Hourly Unit	Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ear LCY LCY (CAT HB) (1 shift/day multiplier Production: Production:	book cket, swing empty): idition Description: Basic Description: Cycle Time Value: Bud ped) rth Mixture (100%- Site Alt) () 192.19 143.56	AVERAGE AVERAGE 0.256 cket Size Class: <u>M</u> 105%) 1.025 citude: <u>7820</u> feet LCY/Hour LCY/Hour	-
Source of e HOURLY PRODUC Excavator Cycle Time (I Load Bucket Capacity Rated Capaci Bucket Fill Fact Adjusted Capaci Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Un A JOB TIME AND CO Fleet size:	stimated swell factor: TION oad bucket, swing los Secondary Job Co ty: 0.80 or: 1.025 ty: 0.82 n Factors 0.90 0.83 0.75 adjusted Hourly Unit Adjusted Hourly Unit Adjusted Hourly Fleet ST	 Cat Handb aded, dump bu Basic Job Con ndition within LCY (heap Rock - Ear LCY Source (CAT HB) (1 shift/day multiplier Production: Production: Production: Total 	cket, swing empty): idition Description: Basic Description: Cycle Time Value: Bud ped) rth Mixture (100%- Site Alt) 192.19 143.56 143.56	AVERAGE AVERAGE 0.256 cket Size Class: M 105%) 1.025 itude: 7820 feet LCY/Hour LCY/Hour LCY/Hour LCY/Hour	ledium

HYDRAULIC EXCAVATOR WORK

HYDRAULIC EXCAVATOR WORK

Task description:	Replac	eTopsoil to Z	ig Zag R	oad			
: New Elk Mine		Permit	Action:	RN8		Permit/Jo	ob#: <u>C1981012</u>
PROJECT IDENTII	FICATION	I					
Task #: 056 Date: 10/20/20 User: AMG	23		olorado s Animas	;		previation: Filename:	None 56
Agency or org	anization na	me: DRMS					
HOURLY EQUIPM	ENT COS	<u>Γ</u>					
Basic Machine: Attachment 1:	Cat 320D ROPS Ca	L 9'-6" Stick b			Horsepower: Weight (MT): Shift Basis: Data Source:	1	148 21.55 per day CRG)
Cost Breakdown:			1 1	Utilization %			
Ownership Cost Operating Cost Operator Cost Total Unit Cost	/Hour: /Hour:	\$70.85 \$50.01 \$37.32 \$158.18		NA 100 NA			
Total Fleet Cos		\$158.18					
	108 108 of estimated	L volume: 0		Swell fac			
Source of e	stimated swe	ell factor: <u>C</u>	perator E	estimate			
HOURLY PRODUC	load bucket,	-	e Job Con on within	dition Descri	ption: <u>BELO</u> ption: <u>AVER</u>	W AVERA AGE	AGE
Load Bucket Capacity				5			_
Rated Capaci Bucket Fill Fact Adjusted Capaci	or: 1	.100 0	CY (heap Other - roo CY	oed) k/dirt mixture	Bucket Size		1edium
Job Condition Correctio	n Factors			S	ite Altitude: <u>770</u>	<u>00</u> feet	
		3 (1 2 m urly Unit Prod	-	314.67	LCY/Hou		
	djusted Hou	urly Unit Prod Irly Fleet Prod		227.23 227.23	LCY/Hou: LCY/Hou:		
Fleet size:	1	Excavator	Tota	al job time:	0.4	7	Hours
Unit cost: \$).696	/LCY		rotal job cost	: \$7	5	-

SITE MAINTENANCE

Ta	sk description:	Site Maintenance during th	ie 10 year lia	bility period
Site: N	lew Elk Mine	Permit Action:	RN8	Permit/Job#: <u>C1981012</u>
PROJECT	<u> IDENTIFICATI</u>	<u>ON</u>		
Task #: Date: User:	057 10/20/2023 AMG	State: Colorado County: Las Animas		Abbreviation:NoneFilename:57
	Agency or organ	ization name: DRMS		
UNIT COS	<u>TS</u>			

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Rill and gully repair	400.00	Cat D3K LGP - 3P	400.00	EA	\$163.26	\$65,304.00

Job Hours: 400.00

Total Cost: \$65,304.00

BULLDOZER RIPPING WORK

Task description:	Rip Mine Entry	Area Prior t	to Regrading				
Site: New Elk Mine	Per	mit Action:	RN8		Permit/Jo	b#: <u>C19810</u>	12
PROJECT IDENTIFI	<u>CATION</u>						
Task #: 058	State:	Colorado		Abb	reviation:	None	
Date: $10/20/2023$		Las Anima	s		Filename:	58	
User: AMG	County.	Lus / minu	5		inchanne.		
Agency or organ	ization name: DR	MS					
HOURLY EQUIPME							-
Basic Machine				Uarganawar		405	
Ripper Attachment			_	Horsepower: Shift Basis:	1.	per day	-
Ripper Attachment	. <u><u> </u></u>			Data Source:		CRG)	-
				Dutu Source.	(ekdy	-
Cost Breakdown:			I.	TT:''' 0/			
Owner	whin Cost/Hours		\$238.76	Utilization % NA			
	ship Cost/Hour: ating Cost/Hour:		\$258.76	100	-		
	ship Cost/Hour:		\$102.29	NA	-		
	ating Cost/Hour:		\$8.98	100	-		
	rator Cost/Hour:		\$41.30	NA	=		
-	Unit Cost/Hour:		\$469.65	1111	_		
		01 404					
lotal	Fleet Cost/Hour:	\$1,408	8.96				
MATERIAL QUANTI Alternate Methods: Seismic: NA		Select nk Volume:	ted estimating NA	method: <u>Area</u> BCY	a	NA	
15.06		Depth (ft):	2.00	Volume:	57,628	NA	BCY or CCY
	-			volume.	57,020		ber of cer
Source	of estimated quantity	y: <u>Map 11</u>					-
HOURLY PRODUCT	ION						
Seismic:							
	Seismic Veloo	city:	NA	feet/sec	cond		
A							
<u>Area:</u>	Average Ripping De	nth	4.05	feet/pas	20		
	Average Ripping De		7.67	feet/pas			
	Average Ripping Len		200.00	feet/pas			
-	Average Dozer Sp		88.00	feet/mi			
А	verage Maneuver Ti		0.25	minute	s/pass		
	Production per unit a		0.838	acres/h			
Job Condition Correction	Factors						
Unadjusted	Hourly Unit Product	ion:	0.838	Acres/h	nr		
	Site Altit	ıde:	7,500	feet			
	Altitude A		1.00	(CAT I	HB)		
	Job Efficier		0.83	(1 shift	· ·		
	Net Correct		0.83	multipl	• /		
	ljusted Hourly Unit I justed Hourly Fleet I		0.70 2.09	Acres/hr Acres/hr			
JOB TIME AND COS	<u>T</u>						
Fleet size:3	Grader(s)		Total job time	e:	8.56	Hours	
Unit cost:\$675.	.582 Per acre		Total job cos	st:\$1	12,066		

CIRCES Cost Estimating Software

BULLDOZER RIPPING WORK

Т	Task description:	Rip Wedge Au	ea Prior to Re	grading				
Site:	New Elk Mine]	Permit Action:	RN8	I	ermit/Job	#: <u>C19810</u>	12
<u>P</u>]	ROJECT IDEN	TIFICATION						
	Task #: 059	State	: Colorado		Abbrey	viation:	None	
		0/2023 County		s		ename:	59	
	User: AMG			5				·
	Agency or	organization name: <u>I</u>	ORMS					
H	OURLY EQUIP	PMENT COST						
	Basic Ma	chine: Cat D9T - 9S	U		Horsepower:	4	05	
	Ripper Attack	nment: <u>3-Shank Ripp</u>	er	_	Shift Basis:		er day	
					Data Source:	(C)	RG)	
<u>Cc</u>	ost Breakdown:			ĺ	Utilization %			
	C	Ownership Cost/Hour:		\$238.76	NA			
		Operating Cost/Hour:		\$162.29	100			
		Ownership Cost/Hour:		\$18.32	NA			
	Ripper	Operating Cost/Hour:		\$8.98	100			
		Operator Cost/Hour:		\$41.30	NA			
		Total Unit Cost/Hour:		\$469.65				
	Т	Total Fleet Cost/Hour:	\$1,40	8.96				
	IATERIAL QUA	ANTITIES	Selec	ted estimating	g method: <u>Area</u>			
smic: Area:	NA 1.60		Bank Volume: Rip Depth (ft):	NA 2.00	BCY Volume:	5,163	NA	BCY or CO
-	So	ource of estimated quan	· ·					
H	OURLY PROD		·					
	eismic:							
50	<u>lisinic.</u>	Seismic Ve	locity:	NA	feet/seco	nd		
۸	K 201		J					
AI	rea:	Average Ripping	Denth	4.05	feet/pass			
		Average Ripping		7.67	feet/pass			
		Average Ripping L		200.00	feet/pass			
		Average Dozer		88.00	feet/minu			
		Average Maneuver		0.25	minutes/p			
		Production per uni	t area:	0.838	acres/hou	ır		
Jo	b Condition Correct	ction Factors						
	Unadju	usted Hourly Unit Produ	iction:	0.838	Acres/hr			
		Site Al		7,500	feet			
		Altitud		1.00	(CAT HE	· · · · · · · · · · · · · · · · · · ·		
		Job Effic		0.83	(1 shift/d	• /		
		Net Corre		0.83	multiplie	r		
		Adjusted Hourly Un Adjusted Hourly Flee		0.70 2.09	Acres/hr Acres/hr			
I	OB TIME AND							
<u>J(</u>	Fleet size:	<u>COST</u> 3 Grader(s	5)	Total job tim	ne: O	77	Hours	
			,	jee m				

Unit cost:	\$675.582	Per acre	Total job cost:	\$1,081

BULLDOZER RIPPING WORK

			Regrading			
Site: New Elk Mine	Per	mit Action:	RN8		Permit/Job#:	C1981012
PROJECT IDENTI	FICATION					
Task #: 060	State:	Colorado		Abbre	viation: No	one
Date: 10/20/20		Las Animas	5		lename: 60	
User: AMG						
Agency or org	anization name: <u>DR</u>	MS				
HOURLY EQUIPM	ENT COST					
Basic Machin	ne: Cat D9T - 9SU			Horsepower:	405	
Ripper Attachme	ent: 3-Shank Ripper		_	Shift Basis:	1 per da	ay
			_	Data Source:	(CRG)
Cost Breakdown:						
				Utilization %		
	nership Cost/Hour:		\$238.76	NA		
	erating Cost/Hour:		\$162.29	100		
	nership Cost/Hour:		\$18.32	NA		
	erating Cost/Hour:		\$8.98 \$41.20	100 NA		
1	perator Cost/Hour: al Unit Cost/Hour:		\$41.30 \$469.65	NA		
100			\$409.03			
Tota	al Fleet Cost/Hour:	\$1,408	8.96			
nic: NA		nk Volume:	NA 2.00	BCY		NA
rea: 5.37	acres Rip	Depth (ft):	2 00			
		Deptil (10).	2.00	Volume:	17,327	BCY or
Source	ce of estimated quantity		2.00	Volume:	17,327	BCY or
Source HOURLY PRODUCE	ce of estimated quantity		2.00	Volume:	17,327	BCY or
	ce of estimated quantity		2.00	Volume:	17,327	BCY or
HOURLY PRODUC	ce of estimated quantity	y:Map 11	NA	Volume:		BCY or
HOURLY PRODUC	ce of estimated quantity CTION	y:Map 11				BCY or
HOURLY PRODUC	ce of estimated quantity CTION	7: <u>Map 11</u>			ond	BCY or
HOURLY PRODUC	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wig	7: <u>Map 11</u> pity: pth: dth:	NA 4.05 7.67	feet/secc feet/pass feet/pass	ond	BCY or
HOURLY PRODUC	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng	y: <u>Map 11</u> wity: pth: gth:	NA 4.05 7.67 200.00	feet/secc feet/pass feet/pass feet/pass feet/pass	ond S	BCY or
HOURLY PRODUC	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wie Average Ripping Leng Average Dozer Spe	y:Map 11 wity: pth: dth: gth: eed:	NA 4.05 7.67 200.00 88.00	feet/secc feet/pass feet/pass feet/pass feet/min	ond S S S ute	BCY or
HOURLY PRODUC	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Ti	y: Map 11 bity:	NA 4.05 7.67 200.00 88.00 0.25	feet/secc feet/pass feet/pass feet/pass feet/min minutes/	ond s s ute pass	BCY or
HOURLY PRODUC Seismic: Area:	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Ti Production per unit at	y: Map 11 bity:	NA 4.05 7.67 200.00 88.00	feet/secc feet/pass feet/pass feet/pass feet/min	ond s s ute pass	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correction	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Tit Production per unit at on Factors	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838	feet/secc feet/pass feet/pass feet/pass feet/min minutes/ acres/ho	ond s ute pass ur	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correction	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Tit Production per unit at on Factors ed Hourly Unit Production	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838	feet/secc feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr	ond s ute pass ur	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correction	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Tim Production per unit and <u>on Factors</u> ed Hourly Unit Production Site Altitu	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500	feet/secc feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet	ond s ute pass ur	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correction	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Tim Production per unit and on Factors ed Hourly Unit Production Site Altitude A	y: Map 11 wity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 0.838 7,500 1.00	feet/secc feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H	ond s ute pass ur B)	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correction	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wie Average Ripping Leng Average Dozer Spe Average Maneuver Ti Production per unit at on Factors ed Hourly Unit Production Site Altitude A Job Efficier	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83	feet/secc feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/c	ond s ute pass ur B) lay)	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correctio Unadjuste	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Tim Production per unit and on Factors ed Hourly Unit Production Site Altitude A Job Efficier Net Correction	y: Map 11 wity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83	feet/secc feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/c multiplic	ond s ute pass ur B) lay)	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correctio Unadjuste	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Ti Production per unit at on Factors ed Hourly Unit Production Site Altitut Altitude A Job Efficier Net Correction Adjusted Hourly Unit P	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83 0.83 0.83	feet/secc feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/c multiplic Acres/hr	ond s ute pass ur B) lay)	BCY or
HOURLY PRODUC Seismic: Area: Job Condition Correctio Unadjuste	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Ti Production per unit at on Factors ed Hourly Unit Production Site Altitude A Job Efficier Net Correction Adjusted Hourly Unit Pleet P	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83	feet/secc feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/c multiplic	ond s ute pass ur B) lay)	BCY or (
HOURLY PRODUC Seismic: Area: Job Condition Correctio Unadjuste	ce of estimated quantity <u>CTION</u> Seismic Veloc Average Ripping Dep Average Ripping Wid Average Ripping Leng Average Dozer Spe Average Maneuver Ti Production per unit at on Factors ed Hourly Unit Production Site Altitude A Job Efficier Net Correction Adjusted Hourly Unit Pleet P	y: Map 11 vity:	NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83 0.83 0.83	feet/secc feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/c multiplic Acres/hr	ond s ute pass ur B) lay)	BCY or '
Unit cost:	\$675.582	Per acre	Total job cost:	\$3,628		
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BULLDOZER RIPPING WORK

Т	Task description:	Rip West Portal	DNR Areas					
Site:	New Elk Mine	Per	mit Action:	RN8		Permit/Jo	b#: <u>C1981</u>	012
PH	ROJECT IDEN	<u>TIFICATION</u>						
	Task #: 061	State:	Colorado		Abbre	eviation:	None	
	Date: 10/20	County:	Las Animas		Fi	lename:	61	
	User: AMG	r						
	Agency or	organization name: <u>DR</u>	MS					_
H	OURLY EQUIF	PMENT COST						
	Basic Ma	chine: Cat D9T - 9SU			Horsepower:		405	
	Ripper Attack	ment: <u>3-Shank Ripper</u>		_	Shift Basis:		oer day	
					Data Source:	(0	CRG)	
Co	ost Breakdown:							
					Utilization %			
		Ownership Cost/Hour:		\$238.76	NA			
		Operating Cost/Hour:		\$162.29 \$18.32	100 NA			
		Ownership Cost/Hour: Operating Cost/Hour:		\$18.32	NA 100			
	Ripper	Operator Cost/Hour:		\$41.30	NA			
	-	Fotal Unit Cost/Hour:		\$469.65				
	Т	Total Fleet Cost/Hour:	\$1,408	.96				
nic: rea:	NA 24.92		k Volume: Depth (ft):	NA 1.50	BCY Volume:	60,306	NA	BCY or
	So	ource of estimated quantity	r: <u>Map 16</u>	(substract ou	t DWDA#3 area l	Map12)		_
H	OURLY PROD	<u>UCTION</u>						
Se	<u>sismic:</u>							
		Seismic Veloc	ity:	NA	feet/seco	ond		
Ar	ea:							
		Average Ripping Dep		4.05	feet/pass			
		Average Ripping Wi		7.67	feet/pass			
		Average Ripping Leng Average Dozer Spe		200.00 88.00	feet/pass feet/min			
		Average Maneuver Ti		0.25	ninutes/			
		Production per unit a		0.838	acres/ho	-		
Jol	b Condition Correc	ction Factors						
	Unadju	sted Hourly Unit Producti	on:	0.838	Acres/hi	•		
		Site Altitu	ıde:	7,500	feet			
		Altitude A		1.00	(CAT H	B)		
		Job Efficier	icy:	0.83	(1 shift/	day)		
		Net Correcti	on:	0.83	multipli	er		
		Adjusted Hourly Unit P Adjusted Hourly Fleet P		0.70 2.09	Acres/hr Acres/hr			
14	D TIME AND		=					
<u>10</u>	DB TIME AND Fleet size:			Total : -1 ·		1.05	TT	
	ricei size:	3 Grader(s)		Total job tin	. I.	1.95	Hou	5

Unit cost:	\$675.582	Per acre	Total job cost:	\$16,836	

BULLDOZER RIPPING WORK

Task description:	Tup East I of ta	l - Only DNR	Area				
Site: New Elk Mine	Pe	ermit Action:	RN8		Permit/Jo	b#: <u>C198</u>	31012
PROJECT IDENT	IFICATION						
Task #: 062	State:	Colorado		Abbre	eviation:	None	
Date: $10/20/2$		Las Anima	S		lename:	62	
User: AMG							
Agency or or	rganization name: D	RMS					
HOURLY EQUIPM	MENT COST						
Basic Mach	hine: <u>Cat D9T - 9SU</u>	J		Horsepower:		405	
Ripper Attachm	nent: <u>3-Shank Rippe</u>	er	_	Shift Basis:		er day	
				Data Source:	(0	CRG)	
Cost Breakdown:							
_				Utilization %			
	vnership Cost/Hour:		\$238.76	NA			
	perating Cost/Hour:		\$162.29 \$18.32	100 NA			
	perating Cost/Hour:		\$8.98	100			
	Derator Cost/Hour:		\$41.30	NA			
	otal Unit Cost/Hour:		\$469.65				
	-						
То	tal Fleet Cost/Hour:	\$1,40	8.96				
	-	ank Volume:	NA	BCY	112 022	NA	BCV or (
rea: 35.00	acres Ri	p Depth (ft):	2.00	BCY Volume:	112,933		BCY or C
rea: 35.00 Sou	acres Ri	p Depth (ft):	2.00		112,933		BCY or C
rea: 35.00 Sou HOURLY PRODU	acres Ri	p Depth (ft):	2.00		112,933		BCY or C
rea: 35.00 Sou	acres Ri acres Ri acres destimated quanti	p Depth (ft): ity: <u>Map 11</u>	2.00	Volume:			BCY or C
rea: 35.00 Sou HOURLY PRODU	acres Ri	p Depth (ft): ity: <u>Map 11</u>	2.00				BCY or 0
rea: 35.00 Sou HOURLY PRODU	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo	p Depth (ft): ity: <u>Map 11</u> ocity:	2.00 NA	Volume:	ond		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u>	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D	p Depth (ft): ity: <u>Map 11</u> ocity: eepth:	2.00 NA 4.05	Volume:	ond		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u>	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D Average Ripping W	p Depth (ft): ity: <u>Map 11</u> pocity: pepth: /idth:	2.00 NA 4.05 7.67	Volume:	ond S		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u>	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D Average Ripping W Average Ripping Le	p Depth (ft): ity: Map 11 bcity: pepth: /idth: ngth:	2.00 NA 4.05 7.67 200.00	Volume: feet/seco feet/pass feet/pass feet/pass	ond S S		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u>	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D Average Ripping W	p Depth (ft): ity: <u>Map 11</u> beity: pepth: /idth: ngth: peed:	2.00 NA 4.05 7.67	Volume:	ond s s s ute		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u>	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Dozer S	p Depth (ft): ity: Map 11 bcity:	2.00 NA 4.05 7.67 200.00 88.00	feet/seco feet/seco feet/pass feet/pass feet/pass feet/pass feet/min	ond s s s ute /pass		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u>	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Dozer S Average Maneuver T Production per unit	p Depth (ft): ity: Map 11 bcity:	2.00 NA 4.05 7.67 200.00 88.00 0.25	feet/pass feet/pass feet/pass feet/pass feet/pass feet/min minutes/	ond s s s ute /pass		BCY or C
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Dozer S Average Maneuver T Production per unit	p Depth (ft): aty: Map 11 bcity: pepth: /idth: ngth: peed: Grime: area:	2.00 NA 4.05 7.67 200.00 88.00 0.25	feet/pass feet/pass feet/pass feet/pass feet/pass feet/min minutes/	ond s s ute /pass ur		BCY or C
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver T Production per unit ion Factors	p Depth (ft): aty: Map 11 bcity:	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838	Volume: feet/seco feet/pase feet/pase feet/pase feet/min minutes/ acres/ho	ond s s ute /pass ur		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver T Production per unit ion Factors ted Hourly Unit Produc Site Alti Altitude	p Depth (ft): ity: Map 11 bcity:	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00	Volume: feet/seco feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hi feet (CAT H	ond s s ute /pass ur B)		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver T Production per unit ion Factors ted Hourly Unit Produc Site Alti Altitude Job Efficie	p Depth (ft): ity: Map 11 bcity:	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83	Volume: feet/seco feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hu feet (CAT H (1 shift/o	ond s s ute /pass ur B) day)		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti <u>CTION</u> Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver T Production per unit ion Factors ted Hourly Unit Produc Site Alti Altitude	p Depth (ft): ity: Map 11 bcity:	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00	Volume: feet/seco feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hi feet (CAT H	ond s s ute /pass ur B) day)		BCY or 0
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver D Production per unit ion Factors ted Hourly Unit Produc Site Alti Altitude Job Efficie Net Correc Adjusted Hourly Unit	p Depth (ft): ity: <u>Map 11</u> pocity: <u></u> pepth: <u></u> ridth: <u></u> ngth: <u></u> peed: <u></u> rime: <u></u> area: <u></u> ction: <u></u> itude: <u></u> ency: <u></u> production: <u></u>	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83 0.83 0.83	Volume: feet/seco feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/a multiplia	ond s s ute /pass ur B) day)		BCY or C
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> <u>Job Condition Correcti</u> Unadjust	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver T Production per unit ion Factors ted Hourly Unit Product Site Alti Altitude Job Efficie Net Correct	p Depth (ft): ity: <u>Map 11</u> pocity: <u></u> pepth: <u></u> ridth: <u></u> ngth: <u></u> peed: <u></u> rime: <u></u> area: <u></u> ction: <u></u> itude: <u></u> ency: <u></u> production: <u></u>	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83	Volume: feet/seco feet/pass feet/pass feet/min minutes/ acres/ho Acres/ho feet (CAT H (1 shift/o multiplio	ond s s ute /pass ur B) day)		BCY or C
rea: 35.00 Sou <u>HOURLY PRODU</u> <u>Seismic:</u> <u>Area:</u> Job Condition Correcti	acres Ri acres Ri arce of estimated quanti CTION Seismic Velo Average Ripping D Average Ripping W Average Ripping Le Average Maneuver T Production per unit ion Factors ted Hourly Unit Product Site Alti Altitude Job Efficie Net Correct	p Depth (ft): ity: <u>Map 11</u> pocity: <u></u> pepth: <u></u> ridth: <u></u> ngth: <u></u> peed: <u></u> rime: <u></u> area: <u></u> ction: <u></u> itude: <u></u> ency: <u></u> production: <u></u>	2.00 NA 4.05 7.67 200.00 88.00 0.25 0.838 0.838 7,500 1.00 0.83 0.83 0.83 0.83	Volume: feet/seco feet/pass feet/pass feet/pass feet/pass feet/min minutes/ acres/ho Acres/hr feet (CAT H (1 shift/a multiplia	ond s s ute /pass ur B) day)		BCY or C

Unit cost:	\$675.582	Per acre	Total job cost:	\$23,646	

BULLDOZER RIPPING WORK

Task description:	Rip Zig Zag Roa	ad and Slurry	y Line Road			
Site: New Elk Mine	Pe	rmit Action:	RN8	F	ermit/Job#: <u>C1</u>	981012
PROJECT IDENTIFIC	CATION					
Task #: 063	State:	Colorado		Abbrev	viation: None	
Date: 10/20/2023	County:	Las Animas		Fil	ename: 63	
User: AMG						
Agency or organi	zation name: DR	RMS				
HOURLY EQUIPMEN	NT COST					
Basic Machine:	Cat D9T - 9SU			Horsepower:	405	
Ripper Attachment:	3-Shank Ripper		_	Shift Basis:	1 per day	
			_	Data Source:	(CRG)	
Cost Breakdown:						
				Utilization %		
	ship Cost/Hour:		\$238.76	NA		
	ting Cost/Hour:		\$162.29	100		
	ship Cost/Hour:		\$18.32	NA		
	ting Cost/Hour:		\$8.98	100		
	ator Cost/Hour: Unit Cost/Hour:		\$41.30 \$469.65	NA		
Total			\$409.03			
Total F	leet Cost/Hour:	\$1,408	.96			
MATERIAL QUANTI	TIES	Select	ed estimating	g method: Area		
Alternate Methods:						
eismic: NA	Ba	nk Volume:	NA	BCY	NA	
0.00		Depth (ft):	1.00	Volume:	1,291	BCY or CC
Source	of estimated quantit	v: PAP Pag	ge 2.05-7c. N	(ap 12. Map 11-she	et 1	
HOURLY PRODUCT	-	<u> </u>	3	<u></u>		
<u>Seismic:</u>	а: · ът	•,	N T 4	C /	1	
	Seismic Velo	city:	NA	feet/secon	nd	
<u>Area:</u>						
	Average Ripping De		2.63	feet/pass		
	Average Ripping Wi		7.67	feet/pass		
А	verage Ripping Len		75.00 88.00	feet/pass feet/minu	ta	
Δ	Average Dozer Sp verage Maneuver Tr		0.25	ninutes/p		
	Production per unit a		0.23	acres/hou		
Job Condition Correction H	1				-	
	Hourly Unit Product	tion.	0.719	Acres/hr		
Chadjustea	•					
	Site Altit		7,700	feet	2)	
	Altitude Job Efficie		0.83	(CAT HE (1 shift/da	1	
	Net Correct		0.83	(1 sint/da multiplier	• /	
. 1				*		
	justed Hourly Unit I usted Hourly Fleet I		0.60	Acres/hr Acres/hr		
Adj	usieu mouriv Eleer I	riouucuon:	1./7	Acres/nr		
	•	-				
JOB TIME AND COS	•	-				

Unit cost:	\$787.164	Per acre	Total job cost:	\$630

ription:	Reseed RDA Bo	rrow Area				
lk Mine	Pe	rmit Action:	RN8	Permit/Jol	o#: C1981012	
	CATION State:	Colorado		Abbreviation:	None	
	County:	Las Anima	S	Filename:	64	
	Ik Mine T IDENTIFIC	Ik Mine Per T IDENTIFICATION	Ik Mine Permit Action: T IDENTIFICATION 064 State: Colorado 10/20/2023 County: Las Anima	Ik Mine Permit Action: RN8 T IDENTIFICATION :: 064 :: 10/20/2023 County: Las Animas	Ik Mine Permit Action: RN8 Permit/Job T IDENTIFICATION :: 064 State: Colorado Abbreviation: :: 10/20/2023 County: Las Animas Filename:	Ik Mine Permit Action: RN8 Permit/Job#: C1981012 T IDENTIFICATION State: Colorado Abbreviation: None :: 10/20/2023 County: Las Animas Filename: 64

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	0.50	0.48	\$4.75
Blue Grama - Hachita	0.67	10.94	\$10.70
Little Bluestem - Cimarron	1.20	7.16	\$14.98
Sideoats Grama - Butte	2.50	8.21	\$22.50
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Rabbitbrush, Rubber	0.15	2.23	\$9.64
Rose, Wood's	0.20	0.00	\$4.10
Daisy or Sunflower, Maximillians	0.11	0.62	\$6.16
Flax, Lewis Blue	0.11	0.73	\$1.82
Spike Muhly	0.33	12.12	\$3.20
Penstemon, Rocky Mountain	0.11	1.72	\$3.25
Totals Seed Mix	11.88	57.76	\$114.07

Application

Application		
Description		Cost /Acre
Drill Seeding (E	RMS Survey Cost)	\$232.00
·	· /	
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67

Total Mulch Application	Cost/Acre	\$222.13

No. of Acre Estimated Failure Rat *Selected Replanting Work Item	e: <u>33%</u>	Cost /Acre: \$1,427.77 Cost /Acre*: \$346.07
Initial Job Cost: \$7,138.85		
Reseeding Job Cost: \$571.02		_
Total Job Cost: \$7,710		
Job Hours: 5.00		_

Task description: Reseed Facilities Are e: New Elk Mine Permit		Permit Action	0		b#: <u>C1981012</u>
<u>PROJI</u>	ECT IDENTIFIC	CATION			
Tas	k #: 065	State: Colorado)	Abbreviation:	None
D	Date: 10/20/2023	County: Las Anir	nas	Filename:	65
	ser: AMG	·			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	30.00	pound	\$0.50	\$14.90
			Total Fertilizer Materials Cost/Acre	\$14.90

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	0.50	0.48	\$4.75
Blue Grama - Hachita	0.67	10.94	\$10.70
Little Bluestem - Cimarron	1.20	7.16	\$14.98
Sideoats Grama - Butte	2.50	8.21	\$22.50
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Rabbitbrush, Rubber	0.15	2.23	\$9.64
Rose, Wood's	0.25	0.00	\$5.13
Daisy or Sunflower, Maximillians	0.11	0.62	\$6.16
Flax, Lewis Blue	0.11	0.73	\$1.82
Spike Muhly	0.33	12.12	\$3.20
Penstemon, Rocky Mountain	0.11	1.72	\$3.25
Totals Seed Mix	11.93	57.76	\$115.09

Application

Description

Cost /Acre

Drill Seeding (DRMS Survey Cost)	\$232.00

Total Seed Application Cost/Acre \$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

JOB TIME AND COST

No. of Acres:	97.26	Cost /Acre:	\$1,485.51
Estimated Failure Rate:	33%	Cost /Acre*:	\$347.09
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost: \$144,480.70			
Reseeding Job Cost: \$11,140.13			
Total Job Cost: \$155,621			

Job Hours: 178.00

Task descri	ption:	Reseed RDA			
e: <u>New Elk</u>	Mine	Pe	rmit Action: <u>RN8</u>	Permit/Jo	b#: <u>C1981012</u>
PROJECT Task #:	IDENTIFIC		Colorado	Abbreviation:	None
Date: User:	10/20/2023 AMG	State: County:	Las Animas	Filename:	66

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	0.50	0.48	\$4.75
Blue Grama - Hachita	0.67	10.94	\$10.70
Little Bluestem - Cimarron	1.20	7.16	\$14.98
Sideoats Grama - Butte	2.50	8.21	\$22.50
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Rabbitbrush, Rubber	0.15	2.23	\$9.64
Rose, Wood's	0.20	0.00	\$4.10
Daisy or Sunflower, Maximillians	0.11	0.62	\$6.16
Flax, Lewis Blue	0.11	0.73	\$1.82
Spike Muhly	0.33	12.12	\$3.20
Penstemon, Rocky Mountain	0.11	1.72	\$3.25
Totals Seed Mix	11.88	57.76	\$114.07

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67

Total Mulch Application Cost/Acre\$222.13

No. of Acre	s: 31.75	Cost /Acre: \$1,427.77	
Estimated Failure Rate	e: 33%	Cost /Acre*: \$346.07	
*Selected Replanting Work Item	s: SEEDING		
Initial Job Cost: \$45,331.70			
Reseeding Job Cost: \$3,625.95			
Total Job Cost: \$48,958		_	
Job Hours: 95.25		_	

Task descr	ription:	Reseed DWP wi	ith Rangelan	d Mix		
Site: New El	k Mine	Pe	rmit Action:	RN8	Permit/Jo	b#: <u>C1981012</u>
<u>PROJEC'</u>	<u>r identific</u>	CATION				
Task #: Date:	10/20/2023	State: County:	Colorado Las Anima	s	Abbreviation: Filename:	None 67
Date: User:		County:	Las Anima	S	Filename:	67

FERTILIZING

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	30.00	pound	\$0.50	\$14.90
			Total Fertilizer	
			Materials	
			Cost/Acre	\$14.90

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	0.50	0.48	\$4.75
Blue Grama - Hachita	0.67	10.94	\$10.70
Little Bluestem - Cimarron	1.20	7.16	\$14.98
Sideoats Grama - Butte	2.50	8.21	\$22.50
Smooth Brome - Manchar	1.00	3.33	\$3.33
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Rabbitbrush, Rubber	0.15	2.23	\$9.64
Rose, Wood's	0.25	0.00	\$5.13
Daisy or Sunflower, Maximillians	0.11	0.62	\$6.16
Flax, Lewis Blue	0.11	0.73	\$1.82
Spike Muhly	0.33	12.12	\$3.20
Penstemon, Rocky Mountain	0.11	1.72	\$3.25
Totals Seed Mix	12.93	61.08	\$118.42

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

No. of Acres:	5.62	Cost /Acre:	\$1,488.84
Estimated Failure Rate:	33%	Cost /Acre*:	\$350.42
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost: \$8,367.28			

	\$0,00,120
Reseeding Job Cost:	\$649.89
Total Job Cost:	\$9,017
Job Hours:	11.24

Task descrip	otion:	Reseed Disturbe	d Areas with	h Riparian Habitat		
Site: New Elk	Mine	Pe	rmit Action:	RN8	Permit/Jo	b#: <u>C1981012</u>
PROJECT Task #: Date: User:	068 10/20/2023 AMG	State: County:	Colorado Las Anima:	<u>s</u>	Abbreviation: Filename:	None 68

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	1.00	0.96	\$9.50
Blue Grama - Hachita	1.34	21.87	\$21.41
Little Bluestem - Cimarron	2.40	14.33	\$29.96
Sideoats Grama - Butte	5.00	16.41	\$45.00
Milk Vetch, Cicer - Monarch	0.66	2.20	\$5.41
Streambank Wheatgrass - Sodar	3.00	9.78	\$17.10
Sainfoin - Remont	3.34	1.46	\$10.55
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Rabbitbrush, Rubber	0.30	4.47	\$19.29
Rose, Wood's	0.50	0.00	\$10.25
Daisy or Sunflower, Maximillians	0.22	1.25	\$12.32
Flax, Lewis Blue	0.22	1.46	\$3.63
Spike Muhly	0.66	24.24	\$6.40
Penstemon, Rocky Mountain	0.22	3.45	\$6.49
Totals Seed Mix	23.86	115.51	\$230.19

Application

Application		
Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67

Total Mulch Application Cost/Acre\$222.13

	No. of Acres:	10.57	Cost /A	cre:	\$1,579.11
Estimate	ed Failure Rate:	33%	Cost /Ac	re*:	\$497.41
*Selected Replanti	ng Work Items:	SEEDING			
Initial Job Cost:	\$16,691.19			_	
Reseeding Job Cost:	\$1,735.02		_		
Total Job Cost:	\$18,426		_		
Job Hours:	21.14		_		

New Ell	K Mine	Perm	it Action: <u>RN8</u>	Permit/Jo	b#: <u>C1981012</u>
'ROJECT	<u>IDENTIFIC</u>	ATION			
Task #:	069	State:	Colorado	Abbreviation:	None
		<u> </u>	Las Animas	Filename:	69
Date:	10/20/2023	County:	Las Animas	r nename.	0)

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Juniper, Utah	74	Tubling, 10 cu. in. container {(MEANS)	\$2.54	\$2.40	\$187.96
Pine, Pinyon	74	Tubling, 10 cu. in. container {(MEANS)	\$2.54	\$2.40	\$187.96
Pine, Ponderosa	74	Tubling, 10 cu. in. container {(MEANS)	\$2.14	\$2.40	\$158.36
Mahogany, Mountain	74	Tubling, 10 cu. in. container {(MEANS)	\$2.16	\$2.40	\$159.84
Snowberry, Western	74	Tubling, 10 cu. in. container {(MEANS)	\$2.16	\$2.40	\$159.84
Sumac, Skunkbrush	74	Tubling, 10 cu. in. container {(MEANS)	\$4.56	\$2.40	\$337.44
		Tota	ls Nursery Stoc	ek Cost / Acre	\$1,191.40

JOB TIME AND COST

No. of Acr	es: 1.4	Cost /Acre: \$1,191.40
Estimated Failure Ra	te: 50%	Cost /Acre*: \$1,191.40
*Selected Replanting Work Iten	ns: NURSERY	
Initial Job Cost: \$1,667.96		
Reseeding Job Cost: \$833.98		
Total Job Cost: \$2,502		

Job Hours: **5.60**

ite: New Elk Mine		ew Elk Mine Permit Action: RN8		Permit/Jo	b#: <u>C1981012</u>	
<u>P</u>]	ROJECT	<u>IDENTIFIC</u>	CATION			
	Task #:	070	State:	Colorado	Abbreviation:	None
	Date:	10/20/2023	County:	Las Animas	Filename:	70
	User:	AMG				

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.75	\$3.75
Total Mulch Materials Cost/Acre				\$7.76

Application

Description		Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$183.16

	No. of Acres:	102.71	Cost /Acre:	\$190.92
Estimate	ed Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanti	ng Work Items:	NONE		
Initial Job Cost:	\$19,609.39			
Reseeding Job Cost:	\$0.00		_	
Total Job Cost:	\$19,609		_	
Job Hours:	102.71		_	

Task descrip	otion:	Seed Rangeland	Seed Mix or	n MR Areas			
Site: New Elk	Mine	Pe	rmit Action:	RN8	Permit/Jo	b#: <u>C1981012</u>	
PROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None	
Date:	10/20/2023	County:	Las Animas	5	Filename:	71	
User:	AMG		RMS	3		/1	

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	1.00	0.96	\$9.50
Blue Grama - Hachita	1.34	21.87	\$21.41
Little Bluestem - Cimarron	2.40	14.33	\$29.96
Sideoats Grama - Butte	5.00	16.41	\$45.00
Milk Vetch, Cicer - Monarch	0.66	2.20	\$5.41
Streambank Wheatgrass - Sodar	3.00	9.78	\$17.10
Sainfoin - Remont	3.34	1.46	\$10.55
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Rabbitbrush, Rubber	0.30	4.47	\$19.29
Rose, Wood's	0.50	0.00	\$10.25
Daisy or Sunflower, Maximillians	0.22	1.25	\$12.32
Flax, Lewis Blue	0.22	1.46	\$3.63
Spike Muhly	0.66	24.24	\$6.40
Penstemon, Rocky Mountain	0.22	3.45	\$6.49
Totals Seed Mix	23.86	115.51	\$230.19

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46

Total Mulch Application Cost/Acre\$74.46

	No. of Acres:	2.22	Cost /Acre:	\$2,132.41
Estimate	ed Failure Rate:	33%	Cost /Acre*:	\$497.41
*Selected Replantin	ng Work Items:	SEEDING		
Initial Job Cost:	\$4,733.95			
Reseeding Job Cost:	\$364.40		-	
Total Job Cost:	\$5,098		-	
Job Hours:	2.22		-	

e: New Elk Mine		Perr	Permit Action: RN8		Permit/Job#: <u>C1981012</u>		
PROJE	CT IDENTIFIC	CATION					
Task	#: 072	State:	Colorado	Abbreviation:	None		
Da	te: 10/20/2023	County:	Las Animas	Filename:	72		
	er: AMG						

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	30.00	pound	\$0.50	\$14.90
			Total Fertilizer Materials Cost/Acre	\$14.90

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	0.50	0.48	\$4.75
Blue Grama - Hachita	0.67	10.94	\$10.70
Little Bluestem - Cimarron	1.20	7.16	\$14.98
Sideoats Grama - Butte	2.50	8.21	\$22.50
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Rabbitbrush, Rubber	0.15	2.23	\$9.64
Rose, Wood's	0.25	0.00	\$5.13
Daisy or Sunflower, Maximillians	0.11	0.62	\$6.16
Flax, Lewis Blue	0.11	0.73	\$1.82
Spike Muhly	0.33	12.12	\$3.20
Penstemon, Rocky Mountain	0.11	1.72	\$3.25
Totals Seed Mix	11.93	57.76	\$115.09

Application

Description

Cost /Acre

Drill Seeding (DRMS Survey Cost)	\$232.00

Total Seed Application Cost/Acre \$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

	No. of Acres:	6	Cost /Acre:	\$1,485.51
Estimat	ed Failure Rate:	33%	Cost /Acre*:	\$347.09
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$8,913.06			
Reseeding Job Cost:	\$687.24		-	
Total Job Cost:	\$9,600		-	
Job Hours:	12.00		-	

Task description: Res :: New Elk Mine		Reseed Zig Zag with Rang Permit Action		Permit/Jo	b#: <u>C1981012</u>
PROJEC	CT IDENTIFIC	CATION			
Task a Date		State: <u>Colorado</u> County: Las Anir		Abbreviation: Filename:	None 73
	$\begin{array}{c} r: 10/20/2023 \\ \hline r: AMG \end{array}$	CountyLas Ann	llas		15

FERTILIZING

Materials Units / Description Cost / Unit Cost /Acre Unit Acre 10-34-0, 18-46-0, 5-10-5 30.00 pound \$0.50 \$14.90 **Total Fertilizer** Materials \$14.90 Cost/Acre

Application

Description		Cost /Acre
NA-fertilizer application incl. with hydroseeding		\$262.23
	Total Fertilizer Application Cost/Acre	\$262.23

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	1.00	0.96	\$9.50
Blue Grama - Hachita	1.34	21.87	\$21.41
Little Bluestem - Cimarron	2.40	14.33	\$29.96
Sideoats Grama - Butte	5.00	16.41	\$45.00
Milk Vetch, Cicer - Monarch	0.66	2.20	\$5.41
Streambank Wheatgrass - Sodar	3.00	9.78	\$17.10
Sainfoin - Remont	3.34	1.46	\$10.55
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Rabbitbrush, Rubber	0.30	4.47	\$19.29
Rose, Wood's	0.50	0.00	\$10.25
Daisy or Sunflower, Maximillians	0.22	1.25	\$12.32
Flax, Lewis Blue	0.22	1.46	\$3.63
Spike Muhly	0.66	24.24	\$6.40
Penstemon, Rocky Mountain	0.22	3.45	\$6.49
Totals Seed Mix	23.86	115.51	\$230.19

Application

Description

Cost /Acre

Hydro seeding (MEANS 32 92 19.14 0200)	\$1,313.33
Total Seed Application Cost/Acre	\$1,313.33

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hydromulch, 1 ton/ac. rate {Materials Only}	2.00	ACRE	\$1,655.28	\$3,310.56
Total Mulch Materials Cost/Acre				\$3,310.56

Application

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

	No. of Acres:	0.8	Cost /Acre	: \$5,131.21
Estimat	ed Failure Rate:	33%	Cost /Acre*	: \$1,543.52
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$4,104.97			
Reseeding Job Cost:	\$407.49			
Total Job Cost:	\$4,512			
Job Hours:	1.60			

e: New Elk Mine		Pe	ermit Action:	RN8	Permit/Jo	b#: <u>C1981012</u>	
<u>PRO</u>)JECT I	DENTIFIC	ATION				
Т	Task #:	074	State:	Colorado		Abbreviation:	None
	Date:	10/20/2023	County:	Las Anima	5	Filename:	74
	Date.						

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	30.00	pound	\$0.50	\$14.90
			Total Fertilizer Materials Cost/Acre	\$14.90

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Buffalograss - Bison	0.50	0.48	\$4.75
Blue Grama - Hachita	0.67	10.94	\$10.70
Little Bluestem - Cimarron	1.20	7.16	\$14.98
Sideoats Grama - Butte	2.50	8.21	\$22.50
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Rabbitbrush, Rubber	0.15	2.23	\$9.64
Rose, Wood's	0.25	0.00	\$5.13
Daisy or Sunflower, Maximillians	0.11	0.62	\$6.16
Flax, Lewis Blue	0.11	0.73	\$1.82
Spike Muhly	0.33	12.12	\$3.20
Penstemon, Rocky Mountain	0.11	1.72	\$3.25
Totals Seed Mix	11.93	57.76	\$115.09

Application

Description

Cost /Acre

Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

No. of Acres:	10.2	Cost /Acre:	\$1,485.51
Estimated Failure Rate:	33%	Cost /Acre*:	\$347.09
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$15,152.20
Reseeding Job Cost:	\$1,168.30
Total Job Cost:	\$16,321
Job Hours:	20.40

Task desc	ription:	Seed NW Vent Fan an	d Access Road (TR72	2)	
Site: New E	lk Mine	Permit A	ction: <u>RN8</u>	Permit/Job#	C1981012
<u>PROJEC</u> Task #	<u>T IDENTIFIC</u> : 075	ATION State: Colo	rado	Abbreviation:	None
Date User	: 10/20/2023		Animas		75
	gency or organiz	zation name: DRMS			

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.67	10.94	\$9.20
Buffalograss - Native/Plains	0.50	0.48	\$6.03
Little Bluestem - Native	1.20	7.16	\$16.28
Sideoats Grama - Vaughn	2.50	8.21	\$20.94
Smooth Brome - Lincoln	1.00	3.33	\$3.33
Kleingrass - Select 75	0.33	3.77	\$3.26
Milk Vetch, Cicer - Monarch	0.33	1.10	\$2.71
Streambank Wheatgrass - Sodar	1.50	4.89	\$8.55
Sainfoin - Remont	1.67	0.73	\$5.28
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Native	2.00	5.05	\$12.00
Totals Seed Mix	12.20	47.42	\$91.00

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
	Total Mulch Application Cost/Acre	\$74.46

	No. of Acres:	1.55		Cost /Acre:	\$1,257.03
Estimate	ed Failure Rate:	40%		Cost /Acre*:	\$1,257.03
*Selected Replanti	ng Work Items:	SEEDING,MUL	CHING		
Initial Job Cost:	\$1,948.40				
Reseeding Job Cost:	\$779.36				
Total Job Cost:	\$2,728				
Job Hours:	1.55				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

New Elk Mine		Permit	Action: RN8			Permit/Job#: C	1981012
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 076		State: Co	olorado		Abbre	eviation: None	
	20/2023		s Animas			ilename: 76	
User: AM		county. <u>Lu</u>	.5 7 11111145				
Agency	or organization	name: DRMS					
EQUIPMENT T	'RANSPOR'	F RIG COST					
					Shift ba	sist 1 man da	
					Cost Data Sou	1	
Truck	Tractor Descr	ription: GENE	RIC ON-HIGH			DR, 6X4, DIESEL	L POWERED,
T1	r Troiler Da	intion:			P (2ND HALF,	/	IDMENT
1 ruc	k Trailer Desci	ripuon: G			OSENECK, DE R (25T, 50T, Al	ROP DECK EQU	IFIVIEINI
]	INAILLI	(251, 501, Al	ND 1001)	
<u>Cost Breakdown:</u>							
Available Rig C	anacities	0-25 Tons	26-50 Tons	51	+ Tons		
	Cost/Hour:	\$20.26	\$36.04		547.05		
	Cost/Hour:	\$39.51	\$76.08		582.85		
	Cost/Hour:	\$22.52	\$22.52		522.52		
	Cost/Hour:	\$0.00	\$23.53		523.53		
1	Cost/Hour:	\$82.29	\$158.17		175.95		
		+	<i></i>				
NON ROADAB	LE EOUIPN	1ENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)		t	SIZE	fleet		
Cat D9T - 9SU	60.01	\$238.76	\$175.95	3	\$1,244.13	\$527.85	\$750.00
CAT 14M	23.57	\$149.33	\$82.29	1	\$231.62	\$82.29	\$250.00
Cat 627G	41.80	\$230.18	\$158.17	2	\$776.70	\$316.34	\$500.00
Water Tanker,	15.00	\$57.13	\$82.29	1	\$139.42	\$82.29	\$250.00
5,000 Gal.				-			
Atlas Capco	0.00	\$384.70	\$82.29	1	\$466.99	\$82.29	\$250.00
DM45/HP - 9.0"							
CAT 950H	20.13	\$49.32	\$82.29	1	\$131.61	\$82.29	\$250.00
Drill/Broadcast	25.00	\$6.73	\$82.29	2	\$178.04	\$164.58	\$500.00
Seeder with							
Tractor					* 1 * 2 *		
Power Mulcher	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
(Bowie LD-90)	24.57	ф114 <i>76</i>	¢150.17	1	¢272.02	¢150.17	\$250.00
Cat D7R DS	34.57	\$114.76	\$158.17	1	\$272.93	\$158.17	\$250.00
Series II LGP			1		1		1

Subtotals: \$3,549.67 \$1,578.39 \$3,250.00

ROADABLE EQUIPMENT:

Generic 10-12 cy, 6x4	\$116.31	3		\$348.93	\$348.93
Fuel Tanker, 4x2, 170 HP	\$34.27	1		\$34.27	\$34.27
Lube Truck, 4x2, 190 HP	\$41.82	1		\$41.82	\$41.82
			Subtotals:	\$425.02	¢425.02
			Subtotals:	\$425.02	\$425.02

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	TRINIDAD 27.00 40.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$16,972.55	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$573.78	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.68	0.68
Return Time (Hours):	0.68	0.68
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.85	1.35

JOB TIME AND COST

Total job time:	3.70	Hours

Total job cost: \$17,546

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	MO	bilize/Demobilize	e Equipment fo	r Pond C	leaning		
New Elk Mine		Permit	Action: RN8			Permit/Job#:	C1981012
PROJECT IDEN	TIFICATI	ON					
Task #: 077	0/2023	State: Co	olorado s Animas			eviation: No lename: 77	one 7
Agency or	organizatior	name: DRMS					
EQUIPMENT TI	RANSPOR	<u>T RIG COST</u>					
				(Shift ba Cost Data Sour		r day Data
Truck	Fractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,		SEL POWERED,
Truck	Trailer Desc	ription: Gl	ENERIC FOLD 1		SENECK, DF (25T, 50T, AN		QUIPMENT
Cost Breakdown:							
Available Rig Ca		0-25 Tons	26-50 Tons		+ Tons		
Ownership (Operating (\$20.26 \$39.51	\$36.04 \$76.08		47.05 32.85		
Operator (\$22.52	\$22.52		22.52		
	Cost/Hour:	\$0.00	\$23.53		23.53		
Total Unit C	Cost/Hour:	\$82.29	\$158.17	\$1	75.95		
NON ROADABL	E EQUIPN	<u>MENT:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip Cost/hr/ fle	
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/ fleet		
Cat 336D L 10'-	32.23	\$95.93	\$158.17	1	\$254.10	\$158.17	\$250.00
6" Stick							
6" Stick				Subtotals:	\$254.10	\$158.1	7 \$250.00
6" Stick ROADABLE EQ Machine Descripti		': Total Cost/hr/ unit	Fleet Siz		\$254.10 Haul Trip Cost/hr/ fleet	Return T	rip
ROADABLE EQ	on	Total Cost/hr/			Haul Trip	Return T	rip
ROADABLE EQ Machine Descripti	on	Total Cost/hr/ unit	Fleet Siz		Haul Trip Cost/hr/ fleet	Return T Cost/hr/ 1	rip fleet
ROADABLE EQ Machine Descripti	on 1	Total Cost/hr/ unit \$98.45	Fleet Siz	e	Haul Trip Cost/hr/ fleet \$295.35	Return T Cost/hr/ 1 \$295.35	rip fleet
ROADABLE EQ Machine Descripti Generic 8-10 cy, 6x4 EQUIPMENT H2	on 4 AUL DIST	Total Cost/hr/ unit \$98.45 ANCE and Tim	Fleet Siz	e Subtotals:	Haul Trip Cost/hr/ fleet \$295.35 \$295.35 TRINIE	Return T Cost/hr/ \$295.35 \$295	rip fleet
ROADABLE EQ Machine Descripti Generic 8-10 cy, 6x4 EQUIPMENT H2	on 4 AUL DIST	Total Cost/hr/ unit \$98.45 ANCE and Tim City or Town withi Total on	Fleet Siz	e Subtotals: egion: tance:	Haul Trip Cost/hr/ fleet \$295.35 \$295.35 TRINIE 27.00	Return T Cost/hr/ 1 \$295.35 \$295 0AD 0	rip fleet 5.35 miles
ROADABLE EQ Machine Descripti Generic 8-10 cy, 6x4 EQUIPMENT H2	on 4 AUL DIST arest Major (Total Cost/hr/ unit \$98.45 ANCE and Tim City or Town withi Total on A	Fleet Siz 3 S ne in project area r e-way travel dis verage Travel S	e Subtotals: egion: tance: Speed: Cost *	Haul Trip Cost/hr/ fleet \$295.35 \$295.35 TRINIE	Return T Cost/hr/1 \$295.35 \$295 \$295 OAD 0 0	rip fleet

Total Roadable Mob/Demob Cost **	¢209.72
** one round trip, no haul rig:	\$398.72

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.68	0.68
Return Time (Hours):	0.68	0.68
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.85	1.35

JOB TIME AND COST

Total job time:	3.70	Hours

Total job cost: \$1,709

EQUIPMENT MOBILIZATION/DEMOBILIZATION

r: New Elk Mine [Permit Action: RN8 [PermitJobs: C1981012 [Task description:	Mol	bilize/Demobilize	Equipment for	r Pond R	emoval			
Task #: 078 State: Colorado Abbreviation: None Date: 10/20/2023 County: Las Animas Filename: 78 Agency or organization name: DRMS EOUIPMENT TRANSPORT RIG COST Shift basis: 1 per day Cost Data Source: Cost Data Source: CRG Data Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006) Truck Trailer Description: GENERIC FOLDING GOOSENUCK, DROP DUCK EQUIPMENT TRAILER (25T, 50T, AND 100T) Cost Breakdown: Available Rig Capacities: 0-25 Tons 26-50 Tons 51+ Tons Operating Cost/Hour: 520.26 536.04 \$47.05 Operating Cost/Hour: 520.25 \$22.25 \$22.25 Operating Cost/Hour: 52.29 \$158.17 \$175.95 NON ROADABLE EQUIPMENT: Machine Weight/ Owner ship Haul Rig Fleet Haul Trip Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet <th>e: New Elk Mine</th> <th></th> <th>Permit</th> <th>Action: RN8</th> <th></th> <th></th> <th>Permit/Job#: <u>C</u></th> <th>21981012</th>	e: New Elk Mine		Permit	Action: RN8			Permit/Job#: <u>C</u>	21981012	
Date: 10/20/2023 County: Las Animas Filename: 78 User: AMG PRMS EQUIPMENT TRANSPORT RIG COST Shift basis: 1 per day CRG Data Cost Data Source: CRG Data Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006) Truck Trailer Description: GENERIC FOLDING GOOSENECK, NOROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T) Cost Breakdown: Available Rig Capacities 0-25 Tons 26-50 Tons 51+ Tons Operator Cost/Hour: \$39.51 \$76.08 \$82.25 Operator Cost/Hour: \$39.51 \$76.08 \$82.25 Operator Cost/Hour: \$39.51 \$76.08 \$82.25 Operator Cost/Hour: \$39.21 \$25.52 \$22.52 Operator Cost/Hour: \$39.20 \$15.8.17 \$175.95 NON ROADABLE EQUIPMENT: Machine Weight/ Owner ship Haul Rig Heaul Trip Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet Cost/h	PROJECT IDEN	TIFICATI	<u>ON</u>						
EQUIPMENT TRANSPORT RIG COST Shift basis: iper day	Date: 10/2								
Shift basis: 1 per day CRG Data Cost Data Source: CRG Data Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006) Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (2ST, 50T, AND 100T) Cost Breakdown: 1 Available Rig Capacities: 20.26 Operating CostHour: \$20.26 S20.26 \$26.50 Tons Operating CostHour: \$20.26 S20.26 \$22.52 S22.53 \$22.52 Total Unit Cost/Hour: \$20.00 S21.53 \$158.17 S175.95 \$158.17 S180 totals: Cost/hr/ Inct Cost/hr/ Inct Cost/hr/ Inct (TONS) Machine Weight/ Unit Owner ship Cost/hr/ Innt Fleet Haul Trip Cost/hr/ Inct Cost/hr/ Inct Cost/hr/ Inct Cost/hr/ Inct DOT Permit Cost/hr/ Inct Machine Description Unit Cost/hr/ Inst S175.95 1 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$61.15 \$61.15 Machine Description Init Cost/hr/ Inct Cost/hr/ Inct Initit <td>Agency of</td> <td>r organization</td> <td>name: DRMS</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Agency of	r organization	name: DRMS						
Cost Data Source: CRG Data Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006) Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T) Cost Breakdown: Available Rig Capacities 0-25 Tons 26-50 Tons 51+ Tons Operating Cost/Hour: \$39.51 \$76.08 \$82.25 00 HP (2ND HALF, 2006) Operator Cost/Hour: \$39.51 \$76.08 \$82.25 00 HP (2ND HALF, 2007) Operator Cost/Hour: \$39.51 \$76.08 \$82.25 Operator Cost/Hour: \$39.51 \$76.08 \$82.25 Operator Cost/Hour: \$82.29 \$158.17 \$175.95 Helper Cost/Hour: \$82.29 \$158.17 \$175.95 Stotal Unit Cost/Hour: \$82.29 \$158.17 \$175.95 Machine Weight/ Cost/hr/unit Cost/hr/mite Cost/hr/ fleet	EQUIPMENT T	RANSPOR	<u>F RIG COST</u>						
Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006) Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (2ST, 50T, AND 100T) Set Breakdown: Available Rig Capacities 0-25 Tons 26-50 Tons 51+ Tons Operating Cost/Hour: \$20.26 \$36.04 \$47.05 Operating Cost/Hour: \$22.52 \$22.52 \$22.52 Helper Cost/Hour: \$20.26 \$36.04 \$47.05 Operating Cost/Hour: \$22.52 \$22.52 \$22.52 Helper Cost/Hour: \$20.26 \$36.04 \$47.05 Operating Cost/Hour: \$20.26 \$36.04 \$47.05 Operating Cost/Hour: \$22.52 \$22.52 \$22.52 Helper Cost/Hour: \$20.00 \$23.53 \$23.53 Total Unit Cost/hr/ unit Cost/hr/Int Cost/hr/ fleet Cost/hr/ fleet Cat D9T - 9SU 60.01 \$238.76 \$175.95 1 \$414.71 \$175.95 \$250.00 Subtotals: S414.71 \$175.95 \$250.00 \$15 \$61.15 \$61.15 Machine Description Total Cost/hr/									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Truck	Tractor Decer	intion: CENE						
Image: Control of the system of the	TTUCK							LIOWERED,	
Cost Breakdown: Available Rig Capacities 0-25 Tons 26-50 Tons 51+ Tons Ownership Cost/Hour: \$20.26 \$36.04 \$47.05 Operating Cost/Hour: \$20.23 \$22.52 \$22.52 Helper Cost/Hour: \$20.00 \$23.53 \$23.53 Total Unit Cost/Hour: \$82.29 \$158.17 \$175.95 SON ROADABLE EQUIPMENT: Machine Weight/ Owner ship Haul Rig Fleet Haul Trip Cost/hr/ DOT Permit Description Unit Cost/hr/ unit Cost/hr/unit Size Cost/hr/ Cost/hr/ Cost/hr/ Cat D9T - 9SU 60.01 \$23.87.6 \$175.95 1 \$414.71 \$175.95 \$250.00 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$61.15 \$61.15 Fleet Size Haul Trip Ceturn Trip Cost/hr/ fleet Sost/hr/ fleet Sol.15 \$250.00	Truck	Trailer Descr	ription: G					IPMENT	
Available Rig Capacities0-25 Tons26-50 Tons51+ TonsOwnership Cost/Hour:\$20.26\$36.04\$47.05Operating Cost/Hour:\$22.52\$22.52Operator Cost/Hour:\$22.52\$22.52Helper Cost/Hour:\$0.00\$23.53\$23.53Total Unit Cost/Hour:\$82.29\$158.17\$175.95NON ROADABLE EQUIPMENT:MachineWeight/ UnitOwner ship Cost/hr/unitHaul Rig Cost/hr/unitFleet SizeHaul Trip Cost/hr/ fleetReturn Trip Cost/hr/fleetDOT Permit Cost/fleetCat D9T - 9SU60.01\$23.8.76\$175.951\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Cost/hr/ fleetFleet Size Cost/hr//fleetHaul Trip Cost/hr/leetReturn Trip Cost/hr/fleetMachine DescriptionTotal Cost/hr/ unitFleet SizeHaul Trip Cost/hr/fleetReturn Trip Cost/hr/fleetMachine DescriptionTotal one-way travel				Т	RAILER	(25T, 50T, AN	ND 100T)		
Ownership Cost/Hour:\$20.26\$36.04\$47.05Operating Cost/Hour:\$39.51\$76.08\$82.85Operator Cost/Hour:\$22.52\$22.52Helper Cost/Hour:\$80.00\$23.53\$23.53Total Unit Cost/Hour:\$82.29\$158.17\$175.95SON ROADABLE EQUIPMENT:MachineWeight/ Unit (TONS)Owner ship Cost/hr/unitHaul Rig Cost/hr/unitFleet SizeHaul Trip Cost/hr/ fleetReturn Trip Cost/hr/ fleetDOT Permit Cost/fleetCat D9T - 9SU60.01\$238.76\$175.951\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Subtotals:\$61.15\$1Subtotals:\$61.15Seturn Trip Cost/hr/ fleetFleet Size Haul Trip Cost/hr/ fleetFlabed Truck, 6x4, 45K GVW\$61.151\$61.15Subtotals:\$61.15Seture Trip Cost/hr/ fleetTotal Cost/hr/ ext stateFleet Size Cost/hr/ fleetMachine DescriptionTotal Cost/hr/ unitSubtotals:\$61.15\$61.15Souther SetureSubtotals:<	Cost Breakdown:								
Operating Cost/Hour:\$39.51\$76.08\$82.85Operator Cost/Hour:\$22.52\$22.52\$22.52Helper Cost/Hour:\$0.00\$23.53\$23.53Total Unit Cost/Hour:\$82.29\$158.17\$175.95NON ROADABLE EQUIPMENT:MachineWeight/ Unit (TONS)Owner ship Cost/hr/unitHaul Rig Cost/hr/unitFleet Cost/hr/fleetHaul Trip Cost/hr/fleetDOT Permit Cost/hr/fleetCat D9T - 9SU60.01\$238.76\$175.951\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Subtotals:\$414.71\$175.95\$250.00Subtotals:\$61.15\$61.15Subtotals:\$61.15\$61.15Cost/hr/fleetFleet SizeHaul Trip Cost/hr/fleetCost/hr/fleetSubtotals:\$61.15Self.15Subtotals:Self.15Soltotals:\$61.15Self.15Subtotals:\$61.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15 <tr< td=""><td>Available Rig Ca</td><td>pacities</td><td>0-25 Tons</td><td>26-50 Tons</td><td>51</td><td>+ Tons</td><td></td><td></td></tr<>	Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51	+ Tons			
Operator Cost/Hour: $\$22.52$ $\$22.52$ $\$22.52$ Helper Cost/Hour: $\$0.00$ $\$23.53$ $\$223.53$ Total Unit Cost/Hour: $\$82.29$ $\$158.17$ $\$175.95$ SION ROADABLE EQUIPMENT:MachineWeight/ UnitOwner ship Cost/hr/ unitHaul Rig Cost/hr/unitFleet SizeHaul Trip Cost/hr/ fleetDOT Permit Cost/fleetMachineWeight/ Unit (TONS)Owner ship Cost/hr/unitHaul Rig Cost/hr/unitFleet SizeHaul Trip Cost/hr/ fleetDOT Permit Cost/fleetCat D9T - 9SU60.01 $\$238.76$ $\$175.95$ 1 $\$414.71$ $\$175.95$ $\$250.00$ Subtotals: $\$414.71$ $\$175.95$ $\$250.00$ Cost/hr/ fleetSubtotals: $\$61.15$ Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15Self.15 <td col<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Helper Cost/Hour: \$0.00 \$23.53 \$23.53 Total Unit Cost/Hour: \$82.29 \$158.17 \$175.95 XON ROADABLE EQUIPMENT: Machine Weight/ Owner ship Haul Rig Fleet Haul Trip Return Trip DOT Permit Description Unit Cost/hr/unit Size Cost/hr/fleet Cost/hr/fleet DOT Permit Cat D9T - 9SU 60.01 \$238.76 \$175.95 1 \$414.71 \$175.95 \$250.00 Subtotals: \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 Cost/hr/ fleet \$61.15 Subtotals: \$61.15 \$61.15 <th colsp<="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th>	<td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Total Unit Cost/Hour: \$\$2.29 \$158.17 \$175.95 SON ROADABLE EQUIPMENT: Machine Weight/ Unit Owner ship Cost/hr/unit Haul Rig Cost/hr/unit Fleet Haul Trip Cost/hr/ fleet Return Trip Cost/hr/ fleet DOT Permit Cost/hr/ fleet Cat D9T - 9SU 60.01 \$238.76 \$175.95 1 \$414.71 \$175.95 \$250.00 Subtotals: \$414.71 \$175.95 \$2250.00 Return Trip Cost/hr/ fleet Flatbed Truck, 6x4, 45K GVW \$61.15 1 \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 Cost/hr/ fleet Subtotals: \$61.15 Subtotals: \$61.15 Subtotals: \$61.15									
KON ROADABLE EQUIPMENT: Machine Weight/ Unit Owner ship Cost/hr/ unit Haul Rig Cost/hr/unit Fleet Size Haul Trip Cost/hr/ fleet Return Trip Cost/hr/ fleet DOT Permit Cost/fleet Cat D9T - 9SU 60.01 \$238.76 \$175.95 1 \$414.71 \$175.95 \$250.00 Subtotals: Subtotals: \$414.71 \$175.95 \$2250.00 Subtotals: \$414.71 \$175.95 \$2250.00 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$414.71 \$175.95 \$250.00 Subtotals: \$61.15 \$61.15 Fleet Size Haul Trip Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet S175.95 \$250.00 Subtotals: \$61.15 \$61.15 \$61.15 Fleet Size Haul Trip Cost/hr/ fleet Cost/hr/ fleet Cost/hr/ fleet S0.15 \$61.15 Cost/hr/ fleet S0.115 \$61.15									
Subtotals: \$115.95 \$250.00 ROADABLE EQUIPMENT: Machine Description Total Cost/hr/ Fleet Size Haul Trip Cost/hr/ fleet Return Trip Cost/hr/ fleet Machine Description Total Cost/hr/ Fleet Size Haul Trip Cost/hr/ fleet Return Trip Cost/hr/ fleet Flatbed Truck, 6x4, 45K GVW \$61.15 1 \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 \$61.15 CQUIPMENT HAUL DISTANCE and Time Total one-way travel distance: TriNIDAD miles Nearest Major City or Town within project area region: Average Travel Speed: TRINIDAD miles Total Non-Roadable Mob/Demob Cost * ** two round trips with haul rig: \$1,712.10	Machine Description	Weight/ Unit	Owner ship Cost/hr/ unit			Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet	
ROADABLE EQUIPMENT: Machine Description Total Cost/hr/ Fleet Size Haul Trip Cost/hr/ fleet Return Trip Cost/hr/ fleet Flatbed Truck, 6x4, 45K GVW \$61.15 1 \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 \$61.15 CQUIPMENT HAUL DISTANCE and Time Subtotals: \$61.15 \$61.15 Nearest Major City or Town within project area region: TRINIDAD miles Total one-way travel distance: 27.00 miles Average Travel Speed: 40.00 mph Total Non-Roadable Mob/Demob Cost * \$1,712.10 \$1,712.10	Cat D9T - 9SU	60.01	\$238.76	\$175.95	1	\$414.71	\$175.95	\$250.00	
Machine Description Total Cost/hr/ unit Fleet Size Haul Trip Cost/hr/ fleet Return Trip Cost/hr/ fleet Flatbed Truck, 6x4, 45K GVW \$61.15 1 \$61.15 \$61.15 Subtotals: \$61.15 \$61.15 \$61.15 CQUIPMENT HAUL DISTANCE and Time Subtotals: \$61.15 \$61.15 Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed: TRINIDAD 40.00 miles mph Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig: \$1,712.10					Subtotals	\$414.71	\$175.95	\$250.00	
Subtotals: \$61.15 Sequipment HAUL DISTANCE and Time Nearest Major City or Town within project area region: TRINIDAD Total one-way travel distance: 27.00 miles Average Travel Speed: 40.00 mph Total Non-Roadable Mob/Demob Cost * \$1,712.10	Machine Descript	ion	Total Cost/hr/ unit		e	Cost/hr/ fleet	Cost/hr/ flee	t	
EQUIPMENT HAUL DISTANCE and Time Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed: Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	Flatbed Truck, 6x4,	45K GVW	\$61.15	1		\$61.15	\$61.15		
Nearest Major City or Town within project area region: TRINIDAD Total one-way travel distance: 27.00 Average Travel Speed: 40.00 Total Non-Roadable Mob/Demob Cost * \$1,712.10 '* two round trips with haul rig: \$1,712.10				S	ubtotals:	\$61.15	\$61.15		
Total one-way travel distance: 27.00 miles Average Travel Speed: 40.00 mph Total Non-Roadable Mob/Demob Cost * \$1,712.10 '* two round trips with haul rig: \$1,712.10	EQUIPMENT H	AUL DIST	ANCE and Tim	<u>ie</u>					
Total one-way travel distance: 27.00 miles Average Travel Speed: 40.00 mph Total Non-Roadable Mob/Demob Cost * \$1,712.10 '* two round trips with haul rig: \$1,712.10	Ne	arest Major C	tity or Town with	in project area re	egion:	TRINID	AD		
Average Travel Speed:40.00mphTotal Non-Roadable Mob/Demob Cost * (* two round trips with haul rig:\$1,712.10								iles	
* two round trips with haul rig:		A					ph		
		Т				\$1,712	.10		
						\$82.5	5		

CIRCES Cost Estimating Software

** one round trip, no haul rig:

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.68	0.68
Return Time (Hours):	0.68	0.68
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.85	1.35

JOB TIME AND COST

Total job time: **3.70** Hours

Total job cost: \$1,795

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilize/Demobilize	Equipment f	or Site Ma	intenance		
ite: New Elk Mine		Permit Action:			Permit/Job#: C1981012		
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 079 Date: 10/20 User: AMO)/2023 G		lorado s Animas			eviation: None lename: 79	
Agency or	organization	name: DRMS					
EQUIPMENT TH	RANSPOR'	<u>F RIG COST</u>					
					Shift ba Cost Data Sour	1	
Truck	Fractor Desci	ription: GENEI	RIC ON-HIGH	WAY TRU	UCK TRACTO	OR, 6X4, DIESE	
Truck	Trailer Desci	ription: Gl		DING GOO	2 (2ND HALF, DSENECK, DF (25T, 50T, AN	ROP DECK EQU	IIPMENT
Cost Breakdown:					(201,001,11	(1) 1001)	
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownership (\$20.26	\$36.04		47.05		
Operating (\$39.51	\$76.08		82.85		
Operator (\$22.52	\$22.52		22.52		
	Cost/Hour:	\$0.00			23.53		
Total Unit C		\$82.29	\$158.17		75.95		
NON ROADABL Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D3K LGP - 3P	9.20	\$73.07	\$82.29	10	\$1,553.60	\$822.90	\$0.00
				Subtotals	\$1,553.60	\$822.90	\$0.00
ROADABLE EQ Machine Descripti		Total Cost/hr/ unit	Fleet Si	ze	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ flee	t
				Subtotals:	\$0.00	\$0.00	
EQUIPMENT HA	AUL DIST.	ANCE and Tim	<u>e</u>				
Nea	arest Major C	tity or Town with	n project area	region:	TRINID	AD	
	5	Total one	e-way travel di verage Travel	stance:	27.0 40.0	0 m	iles ph
	Т	otal Non-Roadabl '* two rou	e Mob/Demob nd trips with h	Cost * aul rig:	\$4,761		L.
		Total Roadable ** one re	Mob/Demob (ound trip, no h		\$0.0	0	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.68	0.68
Return Time (Hours):	0.68	0.68
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.85	1.35

JOB TIME AND COST

Total job time: **3.70** Hours

Total job cost: \$4,762