



## COLORADO

Division of Reclamation,  
Mining and Safety


Department of Natural Resources

### MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

|  |   |  |                             |
|--|---|--|-----------------------------|
| <b>MINE NAME:</b><br>WSG-Hribar                            | <b>MINE/PROSPECTING ID#:</b><br>M-2009-027                      | <b>MINERAL:</b><br>Gravel and sand                                 | <b>COUNTY:</b><br>Huerfano  |
| <b>INSPECTION TYPE:</b><br>Monitoring                      | <b>WEATHER:</b><br>Cloudy                                       | <b>INSP. DATE:</b><br>July 23, 2025                                | <b>INSP. TIME:</b><br>11:30 |
| <b>OPERATOR:</b><br>The Walsenburg Sand and Gravel Company | <b>OPERATOR REPRESENTATIVE:</b><br>Bev Fodor and Willie Estrada | <b>TYPE OF OPERATION:</b><br>112c - Construction Regular Operation |                             |

|   |   |   |
|---|---|---|
| <b>REASON FOR INSPECTION:</b><br>Normal I&E Program | <b>BOND CALCULATION TYPE:</b><br>Complete Bond  | <b>BOND AMOUNT:</b><br>\$50,500.00        |
| <b>DATE OF COMPLAINT:</b><br>NA                     | <b>POST INSP. CONTACTS:</b><br>None   | <b>JOINT INSP. AGENCY:</b><br>None        |
| <b>INSPECTOR(S):</b><br>Amber M. Gibson             | <b>INSPECTOR'S SIGNATURE:</b><br> | <b>SIGNATURE DATE:</b><br>August 14, 2025 |

**The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.**

**INSPECTION TOPIC:** Availability of Records

**PROBLEM:** The annual report and annual report maps have missing/inadequate information. This is a problem for failure to provide all of the information required pursuant to C.R.S. 34-32.5-116 and the Annual Report Form.

**CORRECTIVE ACTIONS:** The Operator shall submit the 2026 annual report and map with all of the materials required by the Annual Report Form on or by the permit's 2026 anniversary date (May 8, 2026).

**CORRECTIVE ACTION DUE DATE:** 5/08/26

**INSPECTION TOPIC:** General Compliance with the Mine Plan

**PROBLEM:** Rule 1.13.5 states, if an Operator temporarily ceases production of the mining operation for one hundred eighty (180) days or more, the Operator must file a Notice of Temporary Cessation in writing to the Office.

**CORRECTIVE ACTIONS:** The Division recommends the Operator file for Temporary Cessation. The start date of the initial 5-year Temporary Cessation period is retroactive to the last date the pit was active. If that date is more than 5 years ago, the operator is required ask the Board for a 5-year extension to the Temporary Cessation period (per rule 1.13.5 (3) and 1.13.8 (b) or begin reclamation.

**CORRECTIVE ACTION DUE DATE:** 10/14/25

## **OBSERVATIONS**

The WSG-Hribar Pit was inspected by Amber Gibson with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed as part of the Division's routine monitoring inspection program. The site was previously inspected by the Division on March 29, 2021 as a pre-operation inspection for an Amendment no. 1 revision (AM1). Bev Fodor and Willie Estrada (representing the Operator - The Walsenburg Sand and Gravel Company) accompanied me during the inspection. The weather was hot and the sky was partially cloudy.

The WSG-Hribar Pit is located approximately 8.23 miles northwest of Walsenburg, CO. The mine entrance road is approximately 1.5 miles west off Interstate 25 South, Exit 59, and is along a private road on the south side of County Road 613. The site is permitted as a 112c Construction Materials Regular Operation and is permitted for 46.91 acres. The approved post-mining land use is rangeland.

### **Availability of Records**

This site was originally permitted as a 110c in 2009 for 9.99 acres. In 2013, the site had been converted to a 112c operation via a Conversion Revision no. 1 (CN1), increasing the permit area to 26.73 acres. In 2021, the Division approved an Amendment Revision no. 1 (AM1), which increased the permit by an additional 20.18 acres – bringing it to the currently permitted 46.91 acres.

The annual report, map, and fee are paid through May 8, 2026. The Division reviewed the recent annual reports and maps and determined the following items must be addressed prior to the 2026 submittal of the annual report and map. This has been **cited as a problem above**.

The Division found that both the recent annual report entries and the annual report maps were inadequate. For the 2026 submittal of the annual report map, please

1. Refer to the Annual Report Form. The Annual Report Form states that as required by the Colorado Land Reclamation Act for the Extraction of Construction Materials (C.R.S. 34-32.5-116), the Permittee shall attach a map to the report that accurately depicts:

- i. the permit boundary,
- ii. the current affected area boundary and;
- iii. the location of the acreages specified in Items no. 8-12 and 15.

*Items 8-12 and 15 on the Annual Report Form are listed below.*

#8. Number of acres currently affected (mining + incomplete and or unreleased reclamation).

#9. Number of acres that were newly affected during the current report year.

#10. Number of acres that were reclaimed during the current report year.

#11. Estimated new acreage to be affected in the next report year.

#12. Estimated acres to be reclaimed in the next report year.

#15. Is adequate topsoil reserved for reclamation, based on your approved permit?

2. Include the following features:
  - A google earth background image

- A north arrow and scale
- A legend indicating the polygons and/or lines for the features identified in items 8-12 and 15 on the form OR include clear labels for each feature.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$50,500 for this site. The Division has updated the estimate for the reclamation liability and found it to be \$92,101-- a difference of \$41,601 from the bond currently held. The Division's cost estimate is enclosed with this report. The Operator will have 14 days (August 28, 2025), from the issuance of this report to submit any questions on the cost estimate. If no questions are received, the Division may issue a surety increase notice for the difference. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).

General Compliance with Mine Plan:

The mine was not operating at the time of the inspection. The annual report submitted for the 2024-2025 reporting year states under item #4, that the last activity conducted at the mine was on March 1, 2009. During the inspection, the representatives stated that the last activity conducted at the mine was either in 2018 or 2019. The outdated annual report information is part of the problem cited in the Availability of Records section above. However, because there is no evidence that the site has been, or remained, active for at least five years, this has **also been cited as a problem above.**

Rule 1.13.5 states that if an Operator temporarily ceases production of the mining operation for 180-days or more, the Operator must file for a Notice of Temporary Cessation. Rule 1.13.5(a) states that the initial period shall be the first five years of Temporary Cessation (TC) beginning with the 180-day period of production cessation. Pursuant to Rule 1.13.5(2) the second five-year period of TC shall begin at the end of the initial period of TC. Although the site has been approved to operate as an Intermittent Operation, per C.R.S 34-32.5-103(11)(b) of the statute, the Operator would only not be required to submit a notice of temporary cessation if mining is resumed within one year **and** if they have included a statement in the permit application that affected lands are to be used for less than 180 days per year.

Because the site has not been active for at least five years, the Operator will be required to apply for a second period of temporary cessation by the corrective action date. Alternatively, the Operator may provide ample evidence that mining operations have resumed and that the site is, and will remain, active by the corrective action date.

As mentioned in the AM1 application, mining has finished along the western border. The purpose of AM1 was to add additional acres to the permit, as well as extend the permit area to the east. The most recent mining activity on the site resulted in a remaining highwall along the east side that is approximately 376 feet long, about 16-18 feet tall, and at about a 1.5-2H:1V slope (see red line on Map 1 and Figure 1). On the north side of the abandoned Homestead Canal, there is another shorter stretch of highwall that extends approximately 275 feet (see yellow line on Map 1 and Figure 1). However, as no mining has occurred since the approval of AM1, and due to the location of this highwall, it appears that it was likely created as part of the pre-law disturbance shown on the AM1 Pre-Mining and Mining Plan maps and has not yet been re-disturbed by this operation (see Map 1, Figure 1, and the enclosed Operator's Mining Plan Map). This area was included in the permit boundary during the AM1 process and is planned to be re-disturbed in the future.

No fuel is stored on site while the mine is not actively operating. There were a few pieces of equipment remaining onsite at the time of the inspection, as well as a pile of crushed asphalt material. The Operator stated

that this material was brought to the site from a nearby highway project and is intended to be screened and sold. The Division reminds the Operator that the permit for this site does not allow for the importation of inert material to be used for backfill, thus the recycled asphalt material is required to leave the site prior to final reclamation.

Hydrologic Balance and Sediment Control:

No standing water or signs of stormwater run-off having left the site were observed onsite at the time of the inspection. No signs of excessive erosion were observed on the slopes during the inspection.

Backfilling, Grading, Revegetation and Reclamation Success:

This site is approved to have a maximum of 25 acres disturbed at any one time. The Division estimates that a total of 23 acres have been disturbed at this operation to date. The reclamation plan states that as mining progresses, the slopes along the outside perimeter of the mining area will be graded to a 3H:1V. This appears to have been conducted at this site in compliance with the approved plan. The Operator stated that sometime around 2018 and/or 2019, the slopes on the west, south, and a portion of the east side were backfilled, graded, topsoiled, and seeded. The slopes are all at a 3H:1V slope or shallower. The reclaimed slopes on the northern portion of the west side appear to have dense vegetation at first glance, but after a closer look the vegetative growth appears to solely be the annual weed Kochia. The Operator will be required to re-seed these slopes with the approved seed mix to ensure that the vegetative growth is diverse, effective, and acts as a long-lasting cover capable of self-regenerating without dependence on irrigation, soil amendments or fertilizer in compliance with Rule 3.1.10.

The reclaimed slopes on the southwest, south, and east sides, appear to have a much broader variety of vegetation established, and will likely only require re-seeding and weed control to ensure that the extent of the vegetative cover is at least equal to the natural vegetation of the surrounding area pursuant to Rule 3.1.10.

Topsoil:

The pit floor does not appear to have had any ripping, topsoiling, or seeding work done at the time of the inspection. Topsoil at the site is scarce. The AM1 application states that topsoil ranges from 0 – 7 inches of topsoil across the site. The reclamation plan also states that additional growth medium material can be salvaged from the overburden across the site to create root zone under the seed bed. The Mining Plan Map (see the enclosed map) indicates where overburden and topsoil piles were anticipated to be located. During the inspection, the areas on the map did not contain stockpiled material, but instead there appeared to be some overburden and possibly topsoil material above and below the current mining face. The Operator shall ensure that an adequate amount of topsoil to conduct final reclamation is not only salvaged, but stored and kept separate from ongoing mining operations, and seeded if not used for reclamation for a period greater than 180 days.

Signs and Markers:

A mine sign was posted at the entrance to the site in compliance with Rule 3.1.12(1). Various structures mark the permit boundary, but the entire permit boundary/affected area appears to be marked in compliance with Rule 3.1.12(2). The permit boundary is marked by fences on west and north sides. The east boundary is marked by the adjacent Orphan View Pit's previous western markers (this area had been released and then incorporated into the WSG-Hribar Pit's boundary during AM1). Additionally, white PVC pipes cover t-posts that mark where the pre-law boundaries are located within the north side of the permitted area.

Conclusion:

This concludes the Division's Inspection Report; photographs that were taken during the time of the inspection, a corresponding inspection map, and a few figures are included below. If you need additional information or



have any questions, please contact me by email at [amber.gibson@state.co.us](mailto:amber.gibson@state.co.us) or by telephone at (720) 836-0967.

**Inspection Contact Address**

Gary Vezzani  
The Walsenburg Sand and Gravel Company  
Hwy. 10  
Walsenburg, CO 81089

*Enclosure: AMI Exhibit C-1 Mining Plan Map  
2025 Reclamation Cost Estimate Update*

CC: Bev Fodor, The Walsenburg Sand and Gravel Company  
Jared Ebert, DRMS

**GENERAL INSPECTION TOPICS**

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

|  |  |                                 |
|--|--|---------------------------------|
| (AR) RECORDS----- <b>PB</b>                | (FN) FINANCIAL WARRANTY----- <u>Y</u>    | (RD) ROADS----- <u>N</u>        |
| (HB) HYDROLOGIC BALANCE----- <u>Y</u>      | (BG) BACKFILL & GRADING----- <u>Y</u>    | (EX) EXPLOSIVES----- <u>N</u>   |
| (PW) PROCESSING WASTE/TAILING---- <u>N</u> | (SF) PROCESSING FACILITIES----- <u>N</u> | (TS) TOPSOIL----- <u>Y</u>      |
| (MP) GENL MINE PLAN COMPLIANCE- <b>PB</b>  | (FW) FISH & WILDLIFE----- <u>N</u>       | (RV) REVEGETATION---- <u>Y</u>  |
| (SM) SIGNS AND MARKERS----- <u>Y</u>       | (SP) STORM WATER MGT PLAN---- <u>N</u>   | (RS) RECL PLAN/COMP-- <u>Y</u>  |
| (ES) OVERBURDEN/DEV. WASTE----- <u>N</u>   | (SC) EROSION/SEDIMENTATION--- <u>Y</u>   | (ST) STIPULATIONS----- <u>N</u> |
| (AT) ACID OR TOXIC MATERIALS----- <u>N</u> | (OD) OFF-SITE DAMAGE----- <u>N</u>       |                                 |

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / **PB = Problem cited** / PV = Possible violation cited

## INSPECTION MAP



**Map 1:** Inspection map generated using Google Earth Pro. The labels for the inspection photo locations correspond with the photo captions on the inspection report photos below. The operation on the left side of the map is the Ted Franciscotti Pit #1 (M-2007-006) and on the right is the Orphan View Gravel Pit (M-2013-016).



## **PHOTOGRAPHS**



**Photo 1:** Looking west across the site from on top of the highwall.



**Photo 2:** Looking southwest across the site from on top of the highwall. The recycled asphalt material is stockpiled within the processing area.





**Photo 3:** Looking south along the reclaimed slopes on the west side of the permit area.



**Photo 4:** Looking at the Kochia that coats the western reclaimed slopes.





**Photo 5:** Looking southeast from the toe of the western reclaimed slopes.



**Photo 6:** Looking west from the southwest corner of the site. The reclaimed slopes in this area appear to have a diverse establishment of desired vegetation.





**Photo 7:** Looking southeast at the reclaimed slopes along the southern permit boundary that appear to have a diverse establishment of desired vegetation.



**Photo 8:** Looking at the reclaimed slopes along the southeast corner of the currently disturbed area.





**Photo 9:** Looking north from the beginning of the highwall along the eastern border of the disturbed area at the 1.5-2H:1V current mining face.



**Photo 10:** Looking east at undisturbed lands within the AM1 boundary. The feature in the center is the abandoned Homestead Canal.





**Photo 11:** Looking south from the northern end of the highwall/current mining face. A t-post with a PVC pipe over it marks the beginning of the pre-law area that lies within the amended boundary.



**Photo 12:** Looking north from the PVC pipe in Photo 11 at the shorter highwall slopes that appear to have been created during a pre-law mining operation that have not yet been re-disturbed by the current operation.





**Photo 13:** Looking west from the fence line that marks the northern permit boundary.



**Photo 14:** Looking northeast at part of the pre-law area within the amended boundary that is marked by a PVC pipe-covered t-post.





**Photo 15:** Looking north at some overburden stockpiled near the reclaimed slopes in the southeast corner.



**Photo 16:** Looking at some overburden and potentially some topsoil material located near the highwall.





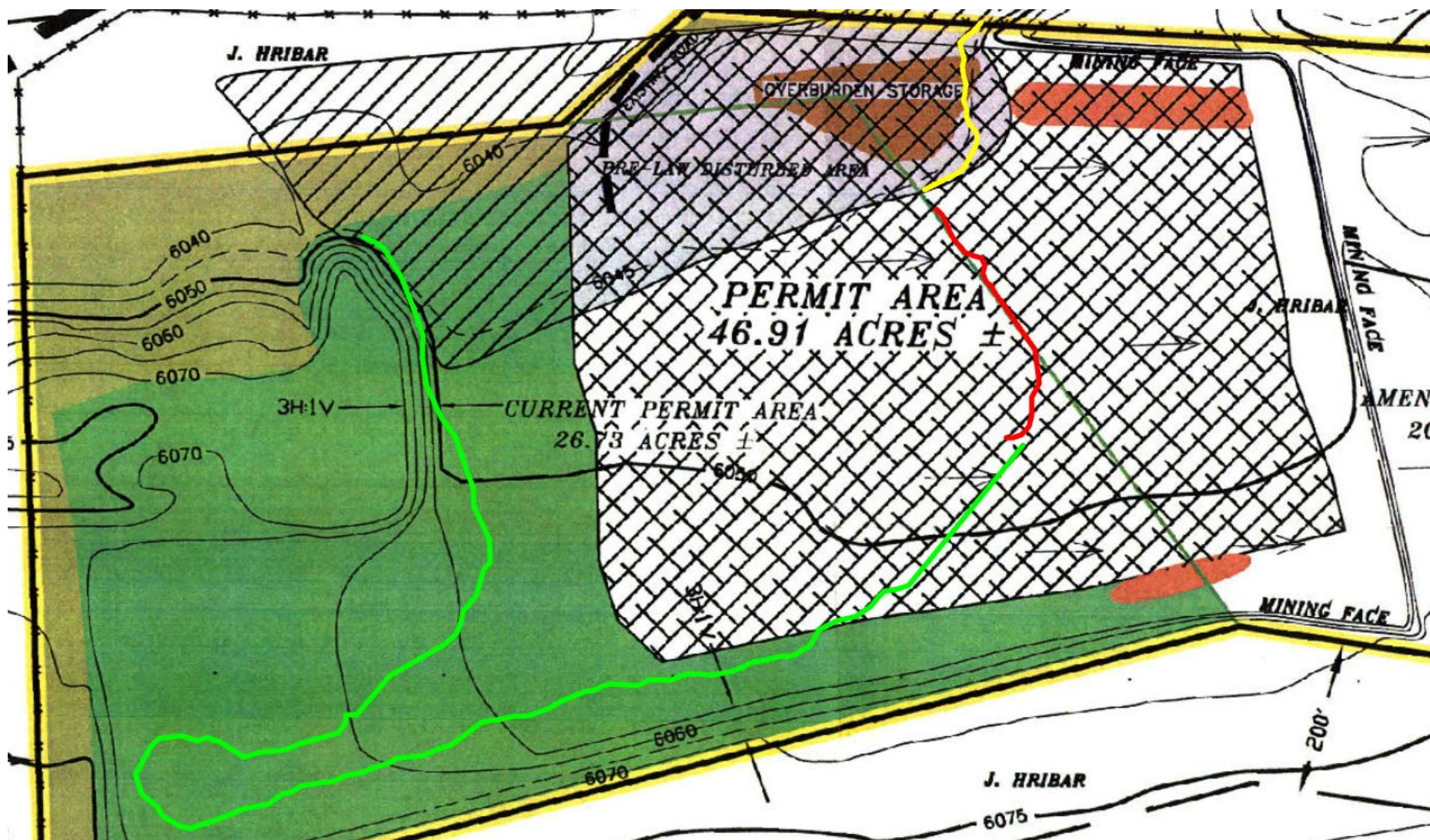
**Photo 17:** Looking at more overburden material. The pit floor is not revegetated.



**Photo 18:** Mine sign posted at the entrance to the site.



## FIGURES



**Figure 1:** Zoomed in photo of inspection data overlain on a georeferenced Mining Plan Map of WSG-Hribar permit no. M-2009-27. During the inspection, the inspector walked along the toe of the reclaimed slopes (green line), the current mine face/highwall (red line), and the highwall within the pre-law mining area (yellow line). It appears that no areas outside of the previous CN1 boundary (darker green polygon) has yet been disturbed by this operation.





**Figure 2:** The top aerial image is sourced from Google Earth Pro and was taken in 2019 and likely shows the most recent active mining activity on the site. The bottom image was sourced from Esri ArcOnline and was taken in 2024, showing that the current disturbance onsite has been unchanged for at least a year.



# SOILS (see map in Exhibit I)

- 17 Fort Collins loam, 1 to 3 percent slopes
- 62 Otero sandy loam, 1 to 9 percent slopes
- 77 Shamber-midway complex, 3 to 25 percent slopes

## CHARACTERISTIC VEGETATION

|                   |                         |
|-------------------|-------------------------|
| Blue grama        | Galleta                 |
| Sand dropseed     | Western wheatgrass      |
| Sideoats grama    | Little bluestem         |
| Indian ricegrass  | Buffalograss            |
| Prairie sand reed | Needlegrass             |
| Sand sage         | Cacti - various species |

## OWNERSHIP WITHIN 200 FEET AND AFFECTED LANDS

JAMES & RHONDA HRIBAR  
1187 COUNTY ROAD 640  
WALSENBURG, CO 81089

TED FRANCISCOTTI  
2723 COUNTY ROAD 613  
WALSENBURG, CO 81089

HUERFANO COUNTY  
401 MAIN STREET, SUITE 100  
WALSENBURG, CO 81089

William & Jackie Ugolini  
2723 COUNTY ROAD 613  
WALSENBURG, CO 81089

# THE WALSENBURG SAND AND GRAVEL

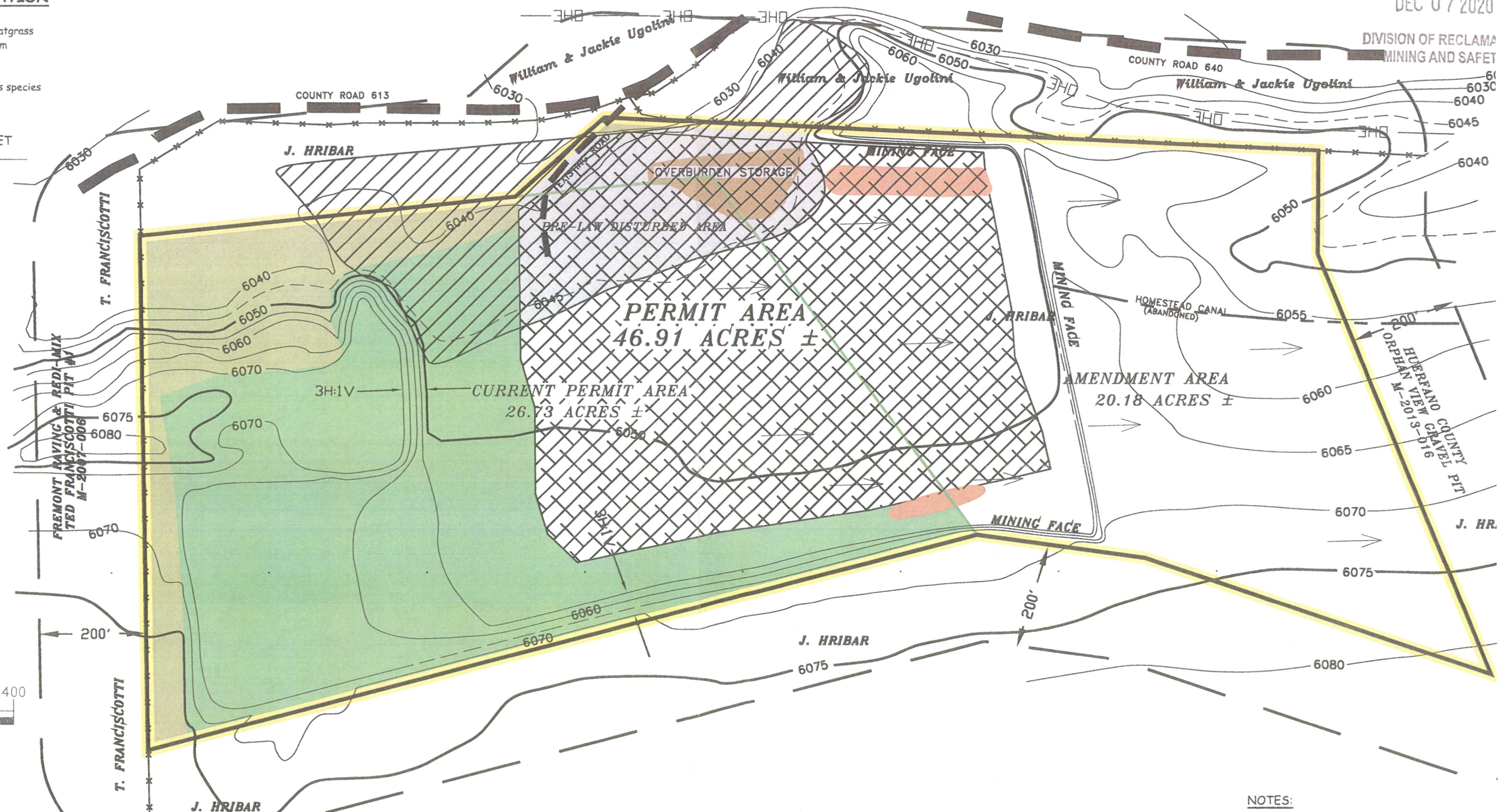
WSG-HRIBAR PIT - M-2009-027

MINING PLAN MAP - EXHIBIT C-1

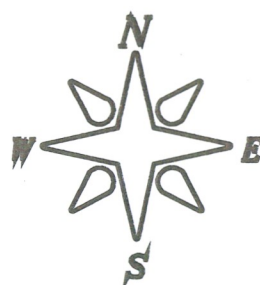
RECEIVED

DEC 07 2020

DIVISION OF RECLAMA  
MINING AND SAFET



SCALE 1"=200'  
CONTOUR INTERVAL: 5 FEET



STRUCTURES ON/OR WITHIN 200 FEET OF THE AFFECTED LANDS

JAMES & RHONDA HRIBAR  
3 - STRAND WIRE FENCES - ALONG ROAD, NORTH & WEST SIDE  
HUERFANO COUNTY

## LEGEND

|  |                                     |  |                                   |
|--|-------------------------------------|--|-----------------------------------|
|  | PLANT SITE/STICKPILE AREA 11.0 AC ± |  | NEW PERMIT LINE/AFFECTED LANDS    |
|  | APPROX. LOCATION TOPSOIL PILES      |  | EXISTING PERMIT AREA - 26.73 AC.± |
|  | APPROX. LOCATION OVERBURDEN PILE    |  | 200 FOOT LINE                     |
|  | RECLAIMED - 13.72 ac. ±             |  | FENCE                             |
|  |                                     |  | POWER LINES                       |
|  |                                     |  | ROADS                             |

## NOTES:

1. RECLAMATION PLAN CONTAINS 3 GRA
2. THIS MAP SHOWS THE SITE PARTIAL NONE OF THE OPTION TO REMOVE SI BEGUN.
3. REFER TO MAP EXHIBITS F - OPTION: 2 FOR THE LAYOUT OF THOSE OPTIONS



## COST SUMMARY WORK

Task description: Reclamation Cost Update 2025

Site: WSG-Hribar

Permit Action: 2025 Insp/AM1 Info

Permit/Job#: M2009027

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/17/2025

County: Huerfano

Filename: M027-000

User: AMG

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

| Task                     | Description   | Form Used | Fleet Size | Task Hours    | Cost            |
|--------------------------|---|-----------|------------|---------------|-----------------|
| 001                      | Cut and fill highwall slopes to 3H:1V                 | DOZER     | 1          | 5.02          | \$1,768         |
| 002                      | Backfill and shape North and South mining face slopes | LOADER    | 1          | 34.40         | \$10,424        |
| 003                      | Spread topsoil over 25 acres                          | DOZER     | 1          | 47.53         | \$16,646        |
| 004                      | Shape Seedbed   | GRADER    | 1          | 19.25         | \$3,089         |
| 005                      | Rip compacted areas                                   | GRADER    | 1          | 17.07         | \$2,738         |
| 006                      | Revegetate 25 acres                                   | REVEGE    | 1          | 25.00         | \$28,214        |
| 007                      | Mobilization/DeMobilization                           | MOBILIZE  | 1          | 4.14          | \$6,211         |
| <b><u>SUBTOTALS:</u></b> |   |           |            | <b>152.41</b> | <b>\$69,090</b> |

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,396

Performance bond: 1.05

Total = \$725

Job superintendent: 76.20

Total = \$5,725

Profit: 10.00

Total = \$6,909

TOTAL O & P = \$14,755

CONTRACT AMOUNT (direct + O & P) = \$83,845

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$3,563

Reclamation management and/or administration: 5.00

\$4,192

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$23,011

**TOTAL BOND AMOUNT (direct + indirect) = \$92,101**

**BULLDOZER WORK**Task description: Cut and fill highwall slopes to 3H:1VSite: WSG-HribarPermit Action: 2025 Insp/AM1 InfoPermit/Job#: M2009027**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 7/17/2025County: HuerfanoFilename: 1User: AMGAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

|                           |                 | <u>Utilization %</u> |
|---------------------------|-----------------|----------------------|
| Ownership Cost/Hour:      | \$179.60        | NA                   |
| Operating Cost/Hour:      | \$110.45        | 100                  |
| Ripper own.<br>Cost/Hour: | \$15.28         | NA                   |
| Ripper op. Cost/Hour:     | \$9.14          | 100                  |
| Operator Cost/Hour:       | \$38.02         | NA                   |
| Total unit Cost/Hour:     | \$352.49        |                      |
| Total Fleet Cost/Hour:    | <b>\$352.49</b> |                      |

**MATERIAL QUANTITIES**Initial Volume: 2,930Swell factor: 1.250Loose volume: **3,663 LCY**Source of estimated volume: Highwall 750ft long 20ft high DRMS observation  
Mining MapSource of estimated swell  
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 60 feetUnadjusted hourly  
production: 1,246.9 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push  
gradient: -5 %Average site altitude: 6,050 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth

Job Condition Correction Factor

|                       |       | <u>Source</u> |
|-----------------------|-------|---------------|
| Operator Skill:       | 0.750 | (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:           | 0.900 | (SSD-FC)      |
| Push gradient:        | 1.115 | (CAT HB)      |
| Altitude:             | 1.000 | (CAT HB)      |
| Material Weight:      | 0.868 | (CAT HB)      |
| Blade type:           | 1.000 | (PAT)         |

Net correction: 0.5856

Adjusted unit  
production: 730.18 LCY/hr  
Adjusted fleet  
production: **730.18** LCY/hr

**JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.483/LCY

Total job time: **5.02** Hours  
Total job cost: **\$1,768**

**WHEEL LOADER – LOAD AND CARRY WORK**Task description: **Backfill and shape North and South mining face slopes**Site: **WSG-Hribar** Permit Action: **2025 Insp/AM1 Info** Permit/Job#: **M2009027****PROJECT IDENTIFICATION**

Task #: **002** State: **Colorado** Abbreviation: **None**  
 Date: **7/17/2025** County: **Huerfano** Filename: **2**  
 User: **AMG**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **CAT 988H** Horsepower: **475**  
 Attachment 1: **ROPS Cab** Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

|                        |          | Utilization % |
|------------------------|----------|---------------|
| Ownership Cost/Hour:   | \$140.90 | NA            |
| Operating Cost/Hour:   | \$102.58 | 100           |
| Operator Cost/Hour:    | \$59.52  | NA            |
| Total Unit Cost/Hour:  | \$303.00 |               |
| Total Fleet Cost/Hour: | \$303.00 |               |

**MATERIAL QUANTITIES**

Initial volume: **8,148** CCY Swell factor: **1.125**  
 Loose volume: **9,167** LCY

Source of estimated volume: **Slope 550' x 20' Mining face (meas. from Mining Map)**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): **0.575** minutes

| Cycle Time Factors         |   | Factor (min.) | Source   |
|----------------------------|---|---------------|----------|
| Material:                  | Mixed material 0.02                             | 0.020         | (Cat HB) |
| Stockpile:                 | Conveyor or dozer piled 10 ft. high and up 0.00 | 0.000         | (Cat HB) |
| Truck Ownership:           | No adjustment - factor not applicable 0.00      | 0.000         | (Cat HB) |
| Operation:                 | Constant operation -0.04                        | -0.040        | (Cat HB) |
| Dump Target:               | Nominal target 0.00                             | 0.000         | (Cat HB) |
| Net Cycle Time Adjustment: |   | -0.020        | minutes  |
| Adjusted Basic Cycle Time: |   | 0.555         | minutes  |

**Rolling Resistance – Road Conditions**

Haul: **Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0**  
 Return: **Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0**

**Haul and Return Time**

|               | Length (feet) | Grade Res. (%) | Rolling Res. (%) | Total Res. (%) | Travel Time (minutes) | Source   |
|---------------|---------------|----------------|------------------|----------------|-----------------------|----------|
| Haul Route:   | 900           | 4.00           | 3.00             | 7.00           | 0.9002                | (Cat HB) |
| Return Route: | 900           | -4.00          | 3.00             | -1.00          | 0.4363                | (Cat HB) |

Total Travel Time: 1.3365 minutes  
 Total Cycle Time: 1.8915 minutes

Load Bucket Capacity

Rated Capacity: 9.20 LCY (heaped)  
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100  
 Adjusted Capacity: 10.12 LCY

Job Condition Correction Factors

Site Altitude: 6050 feet

|                 |             |               |
|-----------------|-------------|---------------|
|                 |             | Source        |
| Altitude Adj:   | <u>1.00</u> | (CAT HB)      |
| Job Efficiency: | <u>0.83</u> | (1 shift/day) |
| Net Correction: | <u>0.83</u> | multiplier    |

Unadjusted Hourly Unit Production: 321.02 LCY/Hour  
 Adjusted Hourly Unit Production: 266.45 LCY/Hour  
 Adjusted Hourly Fleet Production: 266.45 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 34.40 Hours  
 Unit cost: \$1.137 /LCY Total job cost: \$10,424

**BULLDOZER WORK**Task description: Spread topsoil over 25 acresSite: WSG-HribarPermit Action: 2025 Insp/AM1 InfoPermit/Job#: M2009027**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 7/17/2025County: HuerfanoFilename: 3User: AMGAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

|                        |          | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour:   | \$179.60 | NA                   |
| Operating Cost/Hour:   | \$110.45 | 100                  |
| Ripper own. Cost/Hour: | \$15.28  | NA                   |
| Ripper op. Cost/Hour:  | \$6.86   | 75                   |
| Operator Cost/Hour:    | \$38.02  | NA                   |

Total unit Cost/Hour: \$350.20Total Fleet Cost/Hour: **\$350.20****MATERIAL QUANTITIES**Initial Volume: 16,940Swell factor: 1.215Loose volume: **20,582 LCY**Source of estimated volume: 5 inches over 25 acres - adq response AM1Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 5 %Average site altitude: 6,050 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

|                       |       | <u>Source</u> |
|-----------------------|-------|---------------|
| Operator Skill:       | 0.750 | (AVG.)        |
| Material consistency: | 1.100 | (CAT HB)      |
| Dozing method:        | 1.100 | (50% SL)      |
| Visibility:           | 1.000 | (AVG.)        |

|                  |       |               |
|------------------|-------|---------------|
| Job efficiency:  | 0.830 | (1 SHIFT/DAY) |
| Spoil pile:      | 0.900 | (SSD-FC)      |
| Push gradient:   | 0.903 | (CAT HB)      |
| Altitude:        | 1.000 | (CAT HB)      |
| Material Weight: | 1.438 | (CAT HB)      |
| Blade type:      | 1.000 | (PAT)         |

Net correction: 0.8803

Adjusted unit production: 433.02 LCY/hr

Adjusted fleet production: **433.02** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.809/LCY

Total job time: **47.53** Hours

Total job cost: **\$16,646**



## MOTOR GRADER WORK

Task description: Shape Seedbed

Site: WSG-Hribar

Permit Action: 2025 Insp/AM1 Info

Permit/Job#: M2009027

### PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None  
Date: 7/17/2025 County: Huerfano Filename: 4  
User: AMG

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 140M Horsepower: 183  
Ripper Attachment: Multi-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

|                             |                        | Utilization % |
|-----------------------------|------------------------|---------------|
| Ownership Cost/Hour:        | <u>\$51.45</u>         | <u>NA</u>     |
| Operating Cost/Hour:        | <u>\$42.62</u>         | <u>100</u>    |
| Ripper Ownership Cost/Hour: | <u>\$3.18</u>          | <u>NA</u>     |
| Ripper Operating Cost/Hour: | <u>\$3.13</u>          | <u>100</u>    |
| Operator Cost/Hour:         | <u>\$60.00</u>         | <u>NA</u>     |
| Total Unit Cost/Hour:       | <u>\$160.38</u>        |               |
| Total Fleet Cost/Hour:      | <u><b>\$160.38</b></u> |               |

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 25.00 acres

Source of estimated acreage: AM1 application Exhibit L

### HOURLY PRODUCTION

Average Grader Speed: 1.50 mph  
Selected Application: Finish grading (0-2.5 mph) - 1.5  
Selected Blade Angle: 30 degrees  
Effective Blade Length: 10.40 feet  
Width of blade overlap per pass: 2.00 feet  
Net grading or ripping width per pass: 8.40 feet  
Unadjusted Hourly Unit Production: 1.5273 acres/hour

#### Job Condition Correction Factors

Site Altitude: 6050 feet

|                 |               | Source               |
|-----------------|---------------|----------------------|
| Altitude Adj:   | <u>1.00</u>   | <u>(CAT HB)</u>      |
| Job Efficiency: | <u>0.85</u>   | <u>(1sh/d, mod.)</u> |
| Net Correction: | <u>0.8500</u> | <u>multiplier</u>    |

Adjusted Hourly Unit Production: 1.2982 acres/Hour  
Adjusted Hourly Fleet Production: **1.2982** acres/Hour

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **19.26** Hours

Unit cost: \$123.54 per acre Total job cost: **\$3,089**

## MOTOR GRADER WORK

Task description: Rip compacted areas

Site: WSG-Hribar

Permit Action: 2025 Insp/AM1 Info

Permit/Job#: M2009027

### PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None  
Date: 7/17/2025 County: Huerfano Filename: 5  
User: AMG

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 140M Horsepower: 183  
Ripper Attachment: Multi-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

|                             |                 | Utilization % |
|-----------------------------|-----------------|---------------|
| Ownership Cost/Hour:        | <u>\$51.45</u>  | <u>NA</u>     |
| Operating Cost/Hour:        | <u>\$42.62</u>  | <u>100</u>    |
| Ripper Ownership Cost/Hour: | <u>\$3.18</u>   | <u>NA</u>     |
| Ripper Operating Cost/Hour: | <u>\$3.13</u>   | <u>100</u>    |
| Operator Cost/Hour:         | <u>\$60.00</u>  | <u>NA</u>     |
| Total Unit Cost/Hour:       | <u>\$160.38</u> |               |
| Total Fleet Cost/Hour:      | <u>\$160.38</u> |               |

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 20.00 acres

Source of estimated acreage: Operator's item no. 7 in AM1 Ex. L cost breakdown

### HOURLY PRODUCTION

Average Grader Speed: 1.50 mph  
Selected Application: Ripping (0-3 mph) - 1.50  
Selected Blade Angle: -1 degrees  
Effective Blade Length: 0.00 feet  
Width of blade overlap per pass: 2.00 feet  
Net grading or ripping width per pass: 7.58 feet  
Unadjusted Hourly Unit Production: 1.3782 acres/hour

#### Job Condition Correction Factors

Site Altitude: 6050 feet

|                 |               | Source               |
|-----------------|---------------|----------------------|
| Altitude Adj:   | <u>1.00</u>   | <u>(CAT HB)</u>      |
| Job Efficiency: | <u>0.85</u>   | <u>(1sh/d, mod.)</u> |
| Net Correction: | <u>0.8500</u> | <u>multiplier</u>    |

Adjusted Hourly Unit Production: 1.1715 acres/Hour  
Adjusted Hourly Fleet Production: 1.1715 acres/Hour

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 17.07 Hours

Unit cost: \$136.91 per acre Total job cost: \$2,738

**REVEGETATION WORK**Task description: Revegetate 25 acresSite: WSG-HribarPermit Action: 2025 Insp/AM1 InfoPermit/Job#: M2009027**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 7/17/2025County: HuerfanoFilename: 6User: AMGAgency or organization name: DRMS**TILLING**

| Description                                    | Cost /Acre      |
|--|-----------------|
| Weed control spraying (MEANS 31 31 16.13 3100) | \$338.80        |
| <b>Total Tilling Cost/Acre</b>                 | <b>\$338.80</b> |

**SEEDING**

| Seed Mix                    | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre      |
|-----------------------------|--------------------------------|------------------------|-----------------|
| Blue Grama - Lovington      | 0.50                           | 8.16                   | \$14.21         |
| Sideoats Grama - Vaughn     | 6.50                           | 21.34                  | \$163.66        |
| Western Wheatgrass - Arriba | 10.00                          | 25.25                  | \$92.50         |
| Wheat, Winter - Tam 107     | 25.00                          | 22.96                  | \$13.84         |
| <b>Totals Seed Mix</b>      | <b>42.00</b>                   | <b>77.71</b>           | <b>\$284.20</b> |

**Application**

| Description                             | Cost /Acre      |
|---|-----------------|
| Drill Seeding (DRMS Survey Cost)        | \$242.30        |
| <b>Total Seed Application Cost/Acre</b> | <b>\$242.30</b> |

**JOB TIME AND COST**No. of Acres: 25Cost /Acre: \$865.30Estimated Failure Rate: 50%Cost /Acre\*: \$526.50\*Selected Replanting Work Items: SEEDINGInitial Job Cost: \$21,632.50Reseeding Job Cost: \$6,581.25Total Job Cost: \$28,214Job Hours: 25.00

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilization/DeMobilization**Site: **WSG-Hribar**Permit Action: **2025 Insp/AM1 Info**Permit/Job#: **M2009027****PROJECT IDENTIFICATION**

Task #: **007** State: **Colorado** Abbreviation: **None**  
 Date: **7/17/2025** County: **Huerfano** Filename: **7**  
 User: **AMG**

Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**

Shift basis: **1 per day**  
 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:**

| <b>Available Rig Capacities</b> | <b>0-25 Tons</b> | <b>26-50 Tons</b> | <b>51+ Tons</b> |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour:            | \$21.47          | \$38.32           | \$48.96         |
| Operating Cost/Hour:            | \$31.47          | \$60.11           | \$65.86         |
| Operator Cost/Hour:             | \$22.52          | \$22.52           | \$22.52         |
| Helper Cost/Hour:               | \$0.00           | \$22.25           | \$22.25         |
| Total Unit Cost/Hour:           | \$75.46          | \$143.20          | \$159.59        |

**NON ROADABLE EQUIPMENT:**

| 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 D8T - 8SU                       | 47.71               | \$179.60                 | \$143.20              | 1          | \$322.80                 | \$143.20                   | \$250.00               |
| CAT 140M                            | 16.68               | \$54.63                  | \$75.46               | 1          | \$130.09                 | \$75.46                    | \$250.00               |
| CAT 988H                            | 54.46               | \$140.90                 | \$159.59              | 1          | \$300.49                 | \$159.59                   | \$250.00               |
| Drill/Broadcast Seeder with Tractor | 25.00               | \$5.99                   | \$75.46               | 2          | \$162.90                 | \$150.92                   | \$500.00               |

Subtotals: **\$916.28** **\$529.17** **\$1,250.00**

**ROADABLE EQUIPMENT:**

| Machine Description            | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------|---------------------|------------|--------------------------|----------------------------|
| Water Tanker, 2,500 Gal.       | \$54.49             | 1          | \$54.49                  | \$54.49                    |
| Light Duty Pickup, 4x4, 3/4 T. | \$127.20            | 1          | \$127.20                 | \$127.20                   |

Subtotals: **\$181.69** **\$181.69**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: WALSENBURG  
 Total one-way travel distance: 9.25 miles  
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost \* \$6,136.29  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$74.69  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

|                         | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours):      | 0.21                   | 0.21               |
| Return Time (Hours):    | 0.21                   | 0.21               |
| Loading Time (Hours):   | 0.83                   | NA                 |
| Unloading Time (Hours): | 0.83                   | NA                 |
| Subtotals:              | 2.07                   | 0.41               |

**JOB TIME AND COST**

Total job time: 4.14 Hours

Total job cost: \$6,211