

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.

| MINE NAME: | MINE/PROSPECTING ID#: | MINERAL: | COUNTY: |
|---------------------------------|---------------------------------|---------------------------------------|-------------|
| Goodrich Pit | M-2019-005 | Stone, aggregate, | Las Animas |
| | | and gravel | |
| INSPECTION TYPE: | WEATHER: | INSP. DATE: | INSP. TIME: |
| Monitoring | Cloudy | March 27, 2025 | 13:15 |
| OPERATOR: | OPERATOR REPRESENTATIVE: | TYPE OF OPERA | TION: |
| Fremont Paving & Redi-Mix, Inc. | Jodi Schreiber | 112c - Construction Regular Operation | |
| REASON FOR INSPECTION: | BOND CALCULATION TYPE: | BOND AMOUNT: | |
| Normal I&E Program | Complete Bond | \$283,190.00 | |
| DATE OF COMPLAINT: | POST INSP. CONTACTS: | JOINT INSP. AGENCY: | |
| NA | None | None | |
| INSPECTOR(S): | INSPECTOR'S SIGNATURE: | SIGNATURE DAT | `E: |
| Amber M. Gibson | A at 10 ha | April 15, 2025 | |
| | ALL Kilson | | |
| | (Janero) (Jacob) | | |
| | | | |

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

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

OBSERVATIONS

The Goodrich 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 November 3, 2020 as a routine monitoring inspection. Jodi Schrieber (representing the Operator), accompanied me during the inspection. The sky was cloudy, and the weather was hot and windy.

The Goodrich Pit is located in Las Animas County approximately 7.75 miles southwest of Kim, Colorado. The entrance to the pit is south of Highway 160, off the west side of County Road 185. The site is an 80-acre 112c Construction Materials Reclamation Permit. The primary commodity being mined at the site is quarry rock. The approved post-mining land use is rangeland.

Availability of Records:

The annual report, map, and fee are paid through May 24, 2025. There are no outstanding infractions. This site was originally operated under a 111 permit application (permit no. M-2017-005) and was re-permitted as the current 112c operation in 2019.

The Division found that the recent **annual report maps were inadequate**.

- For the 2025 submittal of the annual report map please 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. Please also 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.

Explosives:

The Operator stated that blasting has not occurred at this site for a few years. No explosives were stored onsite at the time of the inspection. Blasting is conducted by a contracted entity when it does occur onsite.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$283,190 for this site. The Division has updated the estimate for the reclamation liability and found it to be \$389,869 - a difference of \$106,679 from the bond currently held. The Division's cost estimate is enclosed with this report. The Operator will have 14 days (April 29, 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).

Hydrologic Balance and Sediment Control:

No standing water was observed onsite during the inspection. The excavated pit area is surrounded by blasted highwalls up to 30 feet high (Photos 1-4). The processing area in the unexcavated western portion of the disturbed area has overburden and topsoil stockpiles lining the south side (Photos 5-6), and low berms lining the north side, ensuring that any run-off runs into the disturbed area and is prevented from leaving the site.

General Compliance with Mine Plan:

The Goodrich Pit is located within the southeastern edge of the Fallas Mesa. Mining at this site is conducted in two phases. The first Phase consisted of the initial 30 acres included in the previous 111 permit. The second Phase includes the remaining 50 acres. During the inspection, the disturbance boundary was collected in Esri FieldMaps, and was reverified post-inspection using Google Earth Pro. It appears that mining has entered into the Phase 2 area (see Map 1 and Figure 1). Currently, there is about 28.5 acres that are disturbed onsite (excluding the haul road).

Although blasting has not occurred onsite within the last few years, the Operator stated that material has been hauled from the site within the last few months. Much of the large, blasted material is sold for use as rip-rap. In the processing area, piles of large stone material and finely crushed material were present during the inspection (Photo 7). When processing is occurring, a portable asphalt plant is brought and used onsite. Stockpiles of gray finely crushed material that are used in the production of asphalt were observed in the processing area, as well as a black recycled asphalt stockpile that is also used for asphalt production (Photo 8). Few pieces of equipment were observed onsite during the inspection, but much of that shown in the September 11, 2024 aerial image on Map 1 was not present during the inspection. The operations conducted onsite appear to be in compliance with the approved mining plan.

Roads:

The Reclamation plan allows for the haul road to remain following reclamation, per the Landowner's request. The road leading up to the pit has been graveled (Photo 9). The road extends through the pit area, splits into ingress and egress routes into the processing area (Photo 10) and extends past the processing area (Photos 11-12). There is also a truck scale located along the entrance haul road (Photo 13). The roads within the permit area have been well maintained.

Signs and Markers:

A mine sign was posted at the entrance to the site in compliance with Rule 3.1.12(1) (Photo 9). The Division verified the location of field markers around the processing area during the inspection using the Esri Field Maps application. The affected area is marked with t-posts (Photos 14-15).

Topsoil:

Topsoil piles were observed along the southern border of the processing area (Photo 15). The piles appeared stable at the time of the inspection. The Operator may consider seeding the piles this year if they will not be used for reclamation within the next 180 days.

Conclusion:

This concludes the Division's Inspection Report; a map and figure displaying topics discussed during the inspection, and a subset of corresponding photographs that were taken during the time of the inspection, are included below. If you need additional information or have any questions, please contact me by email at <u>amber.gibson@state.co.us</u> or by telephone at (720) 836-0967.

Inspection Contact Address

Jodi Schreiber Fremont Paving & Redi-Mix, Inc. 839 Mackenzie Ave Canon City, CO 81212

Enclosure: 2025 Reclamation Cost Estimate

CC: Jared Ebert, DRMS

PHOTOGRAPHS



Photo 1: Looking south within the excavated area at the blasted highwalls and blasted material above and below the highwall within the permit boundary.



Photo 2: Looking east within the excavated area.



Photo 3: Looking west at some finely crushed material within the excavated area.



Photo 4: Looking east across the excavated pit from atop the processing area.



Photo 5: Looking west along the product berms with the topsoil berms (arrow) lining the southside.



Photo 6: Looking east along the topsoil berms.



Photo 7: Looking east within the processing area.



Photo 8: Looking east within the processing area. A loader is pictured in the background. The arrow points to the pile of recycled asphalt.



Photo 9: Looking west at the graveled haul road leading into the pit and at the mine sign.



Photo 10: Looking south at the ingress and egress haul road routes within the excavated area leading to the processing area up top.



Photo 11: Looking east at where the haul road extends through the processing area.



Photo 12: Looking west at where the haul road extends past the processing area.



Photo 13: Looking east at the truck scale within the entrance haul road.



Photo 14: Looking west along the northern permit boundary at a t-post (circled) and at the berms lining the disturbance on the northside, preventing sediment from leaving the site.



Photo 15: Looking northeast at some of the t-posts marking the south side of the permit boundary.

PERMIT #: M-2019-005 INSPECTOR'S INITIALS: AMG INSPECTION DATE: March 27, 2025



Map 1: 2025 Inspection Map for the Goodrich Pit generated in Google Earth Pro. The numbers correspond to the inspection report photos.



Figure 1: The Permittee's Mining Plan Phase 1 map overlain onto the 2025 inspection report map. The white polygon indicates the disturbance boundary. The vertical blue line in the middle of the figure indicates the Phase 1 boundary. The Operator is now in Phase 2.

COST SUMMARY WORK

| Task description:Reclamation Cost Estimate Summaryite:Goodrich PitPermit Action: 2025 In | | · · | Permit/Jol | b#: <u>M2019005</u> | | |
|--|-------------------------|-------------------|------------------------|---------------------|----------------------------|------------------|
| PROJECT | IDENTIFI | CATION | | | | |
| Task #: Date: User: | 000 4/14/2025 AMG | State: County: | Colorado Las Animas | | Abbreviation: Filename: | None M005-000 |
| Age TASK LIST | | | RMS | | | |

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|------|---|--------------|---------------|---------------|-----------|
| 001 | Drill and Blast Highwall | BLASTING | 1 | 54.54 | \$41,237 |
| 001b | Grade blasted highwall material to 3H:1V slope. | DOZER | 1 | 6.44 | \$2,174 |
| 002 | Rip the affected land | RIPPER | 2 | 56.71 | \$39,031 |
| 003 | Spread topsoil | LOADER | 2 | 189.27 | \$53,331 |
| 004 | Revegetation | REVEGE | 1 | 80.00 | \$148,426 |
| 005 | Mobilization | MOBILIZE | 1 | 9.32 | \$17,114 |
| | | <u>SUBTO</u> | TALS: | 396.28 | \$301,313 |

INDIRECT COSTS

OVERHEAD AND PROFIT:

| Liability insurance: | 2.02 | Total = | \$6,087 |
|----------------------|--------|------------------------------------|-----------|
| Performance bond: | 1.05 | Total = | \$3,164 |
| Job superintendent: | 198.14 | Total = | \$15,707 |
| Profit: | 10.00 | Total = | \$30,131 |
| | | TOTAL O & P = | \$55,088 |
| | | CONTRACT AMOUNT (direct + O & P) = | \$356,401 |

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 5.00 | _ Total = _ Total = | \$500 \$15,147 \$17,820 |
|--|-----------------------|------------------------|-------------------------------|
| CONTINGENCY: | 0.00 | Total = | \$0 |
| | TOTAL I | NDIRECT COST = | \$88,555 |
| TOTAL BO | \$389,868 | | |

Page 1 of 3

SURFACE BLASTING WORK

| Task description: | Drill and Blast Highwall | | | | | |
|---------------------------|---|----------------------------------|---------|---------------------------------------|--------------|--|
| Site: Goodrich Pit | Permit Action: _2 | 2025 Inspection | Permit | /Job#: <u>M20</u> | 19005 | |
| PROJECT IDE | <u>ENTIFICATION</u> | | | | | |
| | 4/2025 County: Las Anima | s | | viation: <u>No</u> ename: <u>1</u> | one | |
| User: <u>AM</u> Agency | v or organization name: <u>DRMS</u> | | | | | |
| BLAST AREA | DIMENSIONS | | | | | |
| | | | · · · · | NTITY | UNIT | |
| | | ge-shaped mass (h | | | ed cut/fill) | |
| | | blast (fragmentatio | | , | | |
| | Highwall or Ben | | | .75 | h:1v | |
| | | ed Slope Angle: Bench Length: | | .00 200 | h:1v feet | |
| | | r Bench Width: | | 34 | feet | |
| | 2 | Bench Height: | | 0.0 | feet | |
| | Depth to Base of C | | | 1.3 | feet | |
| BLAST AREA | • | U | | | I | |
| | | | QUAN | TITY | UNIT | |
| | Total Volume of Dimensional | | 6,38 | | cubic yards | |
| | Blast Volume to Subdrill Grade and Blast Pattern | | 4,63 | | cubic yards | |
| . <u> </u> | Blast Volume to Finish Grade and Blast Pattern Lines: | | 4,635 | | cubic yards | |
| | Remaining Volume Required to be R | e-Shot or Ripped: | 1,/3 | 50 | cubic yards | |
| BLAST AREA | DESIGN | | | | | |
| | | QUAN | LITY | UN | IT | |
| | Recommended Blasthole Diameter: | 1.50 | | inches | | |
| | Selected Blasthole Diameter: | 7.00 | | inches | | |
| | Subdrilling Allowance: | 0.0 | | feet | | |
| | Blasthole Depth: | 6.5 | | feet | | |
| | Density of Rock: | Cast blasting (ANFO Basis) | | rock density | | |
| | Burden to Charge Diameter Ratio: | 20 | | times diameter | | |
| | Burden: | 12.0 | | feet | | |
| | Spacing to Burden Ratio: Spacing: | 1.1 | | times burder feet | L | |
| | Cubic Yards of Rock per Blasthole: | 25.1 | | cubic yards | | |
| | Powder Factor Description: | Media | | rock strength | 1 | |
| | Powder Factor: | | 5 | pounds/cu. yd. | | |
| | Density of Blasting Agent: | ing Agent: 0.85 | | grams/cc | | |
| | Quantity of Explosives per Blasthole: | 14.4 | | POUNDS | | |
| | Height of Powder Column: | 1.02 | | feet | | |
| | Height of Stemming per Blasthole: | 5.4 | | feet | | |
| | Stemming to Burden Ratio: | 0.4 | | times burden | l | |
| | Quantity of Stemming per Blasthole: | 0.054 | +0 | cubic yards | | |
| | Number of Rows: Number of Blastholes per Row: | <u>2</u> 92 | | rows holes per rov | | |
| | Total Number of Blastholes: | 184 | | holes | v | |
| . <u>.</u> | Total Length of all Blastholes: | 1,19 | | feet | | |

BLASTING MATERIALS QUANTITIES

| | QUANTITY | UNIT |
|---|----------|-------------|
| Total Quantity of Stemming Required: | 9.93 | cubic yards |
| Total Quantity of Explosives Required: | 2,665 | pounds |
| Total Quantity of det. cord/fuse/wire Required: | 3,968 | linear feet |
| Quantity of Blasting Caps per Blasthole: | 1 | cap(s) |
| Total Quantity of Blasting Caps Required: | 184 | caps |
| Quantity of Primers per Blasthole: | 1 | primer(s) |
| Total Quantity of Primers Required: | 184 | primers |
| Quantity of Delays per Blasthole: | 1 | delay(s) |
| Total Quantity of Delays Required: | 186 | delays |

HOURLY EQUIPMENT COST

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

| HOUKLI EQUII MENI COSI | Shift basis. <u>I per day</u> |
|-------------------------------------|-------------------------------|
| | Description |
| Drilling Equipment - Drill: | SCHRAMM T450WS |
| -Drill Pad Preparation: | Cat D8T - 8SU |
| Misc. Drill Support Equipment: | NA |
| Misc. Explosives Support Equipment: | NA |
| Explosives Delivery –Bulk Truck: | ANFO Bulk Delivery Truck |
| -Cap Truck: | Cap Delivery Truck |
| | |

| Cost Breakdown: | Drilling Equipment | Drill Pad Preparation | Misc. Drill Support | Misc. Expl. Support | Explosives Bulk Truck | Delivery Cap Truck |
|------------------------|-----------------------|--------------------------|------------------------|------------------------|--------------------------|-----------------------|
| | Drilling | Dozer | | | MiscTruck | MiscTruck |
| %Utilization-machine: | 100 | 25 | NA | NA | 25 | 25 |
| Ownership cost/hour: | \$293.57 | \$173.32 | NA | NA | \$131.01 | \$9.32 |
| Operating cost/hour: | \$215.68 | \$27.43 | NA | NA | \$35.44 | \$9.47 |
| %Utilization-ripper: | NA | 15 | NA | NA | NA | NA |
| Ripper own. cost/hour: | NA | \$14.53 | NA | NA | \$0.00 | \$0.00 |
| Ripper op. cost/hour: | NA | \$1.19 | NA | NA | \$0.00 | \$0.00 |
| Operator cost/hour: | \$78.71 | \$38.59 | NA | NA | \$27.68 | \$27.68 |
| Unit Subtotals: | \$587.96 | \$255.06 | \$0.00 | \$0.00 | \$194.13 | \$46.46 |
| Number of Units: | 1 | 1 | 0 | 0 | 1 | 1 |
| Group Subtotals: | \$587.96 | \$255.06 | \$0.00 | \$0.00 | \$194.13 | \$46.46 |

Total work team cost/hour: <u>\$1,083.61</u>

MATERIALS COST

| | Description | Unit | Unit Cost | Quantity | Total Cost |
|----------------------|-------------------------------|-------------|------------|----------|------------|
| | Bulk ANFO nom. density (| | | | |
| Blasting Agent: | 7,900-15,000 fps) | Pound | \$0.800 | 2665.082 | \$2,132.07 |
| | Cast primer, 1.0 lb (electric | | | | |
| Primers or Boosters: | or non-electric system) | Each | \$14.810 | 184.000 | \$2,725.04 |
| | Non-electric cap, delay | | | | |
| Blasting Caps: | (non-electric systems) | Each | \$6.400 | 184.000 | \$1,177.60 |
| Det. Cord, fuse, or | Detonating cord, 45 gr./ft. | | | | |
| wire: | (non-electric systems) | Linear foot | \$0.800 | 3968.140 | \$3,174.51 |
| | 1,000 MS delays (non- | | | | |
| Delays: | electric systems) | Each | \$21.020 | 186.000 | \$3,909.72 |
| | NO MISCELLANEOUS | | | | |
| Miscellaneous: | MATERIALS REQUIRED | NA | \$0.000 | 0.000 | \$0.00 |
| Drill bits: | Bit life $= 1,750$ | Linear feet | \$1,825.64 | 0.681 | \$1,242.90 |

Total Materials Cost: \$14,361.84

DRILLING AND EXPLOSIVES PREPARATION TIME

| Total Drilling Length: | 1,191 | linear feet |
|---------------------------|-------|-------------|
| Unadjusted Drilling Rate: | 82.00 | feet/hour |
| Drilling Time: | 22.83 | hours |

Job Condition Corrections:

| Site Altitude: | 6,100 | feet |
|-------------------------|-------|---------------|
| Altitude Adjustment: | 0.95 | (DRMS est.) |
| Job Efficiency Factor: | 0.67 | (CH. Exc. HB) |
| Adjusted Drilling Rate: | 52.19 | feet/hour |
| Explosives Prep. Time: | 31.72 | hours |

| | | | Total Job Time: | 54.55 | Hours |
|------------|---------|-------------|-----------------|----------|-------|
| Unit cost: | \$8.897 | per cu. yd. | Total Job Cost: | \$41,237 | |

BULLDOZER WORK

| Task description: | Grade blaste | a mgnwan mate | nai to 511.1 v 310pc. | | |
|---|---|--|-----------------------------------|----------------------------|------------|
| Goodrich Pit | · | Permit Action: _ | 2025 Inspection | _ Permit/Job#: | M2019005 |
| PROJECT IDENTI | FICATION | | | | |
| Task #: 001B Date: 4/14/2025 User: AMG | Stat | | S | Abbreviation: Filename: | None 1b |
| Agency or orga | anization name: | DRMS | | | |
| HOURLY EQUIPM | ENT COST | | | | |
| | at D8T - 8SU | | _ | | |
| Horsepower: 31 | u mi-Universal | | _ | | |
| | | | _ | | |
| | shank ripper | | _ | | |
| | per day (RG) | | _ | | |
| Data Source: (C | (NU) | | _ | | |
| Cost Breakdown: | | | | | |
| | | | Utilization % | | |
| Ownership Cost/Hour: | | \$173.32 | NA | | |
| Operating Cost/Hour: | | \$109.71 | 100 | | |
| Ripper own. Cost/Hour: | | \$14.53 | NA | | |
| Ripper op. Cost/Hour: | | \$1.19 | 15 | | |
| Operator Cost/Hour: | | \$38.59 | NA | | |
| Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUAN | \$337.34 \$337.34 TITIES | | | | |
| Total Fleet Cost/Hour: MATERIAL QUAN | \$337.34 <u>TITIES</u> | | | | |
| Total Fleet Cost/Hour: <u>MATERIAL QUAN'</u> Initial Volume: <u>4,2</u> | \$337.34 FITIES 11 | | | | |
| Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>4,2</u> Swell factor: <u>1.00</u> | \$337.34 FITIES 11 | | | | |
| Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>4,2</u> Swell factor: <u>1.00</u> | \$337.34 <u>FITIES</u> 11 00 11 LCY ume: Blaste | | ace area, 2.61 acres, Pus | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 | \$337.34 <u>TITIES</u> 11 00 11 LCY ume: Blaste depth | d Highwall Surfa | ace area, 2.61 acres, Pus | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUAN' Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu | \$337.34 TITIES 11 00 11 LCY ume: Blaster depth ll factor: Cat H | | ace area, 2.61 acres, Pusi | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu 300 Source of estimated sweet 400 MOURLY PRODUC 400 Average push distance: 400 | \$337.34 FITIES 11 00 11 LCY ume: Blaster depth ill factor: Cat H 'TION 50 feet | andbook | ace area, 2.61 acres, Pus | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ll factor: Cat H TION action: 50 feet 1,400.0 | andbook | | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu 300 Source of estimated sweet 400 MOURLY PRODUC 400 Average push distance: 400 | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ll factor: Cat H TION action: 50 feet 1,400.0 | andbook | | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ll factor: Cat H TION action: 50 feet 1,400.0 | andbook | | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ull factor: Cat H TION uction: 50 feet 1,400.0 escription: Roc -30 % | andbook LCY/hr k, avg. ripped or | | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu 4,2 Source of estimated volu 500 Source of estimated sweet 100 HOURLY PRODUC 100 Average push distance: 100 Unadjusted hourly product 100 Materials consistency de 100 Average push gradient: 100 Average site altitude: 100 | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ill factor: Cat H CTION action: 50 feet 1,400.0 escription: Roc -30 % 6,100 feet | andbook LCY/hr k, avg. ripped or | | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu 4,2 Source of estimated volu 500 Source of estimated sweet 100 HOURLY PRODUC 100 Average push distance: 100 Unadjusted hourly product 100 Materials consistency de 100 Average push gradient: 100 Average site altitude: 100 Material weight: 100 Weight description: 100 | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ull factor: Cat H TION CTION escription: Roc -30 % 6,100 feet 3,300 lbs/LCY Basalt | andbook LCY/hr k, avg. ripped or | | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu Source of estimated volu Source of estimated swee HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth ill factor: Cat H CTION action: 50 feet 1,400.0 escription: Roc -30 % 6,100 feet 3,300 lbs/LCY Basalt n Factor 1 | andbook LCY/hr k, avg. ripped or | blasted 0.7 | h 1 foot | |
| Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,2 Swell factor: 1.00 Loose volume: 4,2 Source of estimated volu 300 Source of estimated swell 300 HOURLY PRODUC Average push distance: Unadjusted hourly product 300 Materials consistency defined 300 Average push gradient: 300 Average site altitude: 300 Material weight: 300 Weight description: 300 Job Condition Correction 300 | \$337.34 TITIES 11 00 11 LCY ume: Blaste depth 11 LCY ume: Blaste depth 11 LCY ume: Blaste depth Cat H TION action: <u>50 feet</u> 1,400.0 escription: Roc <u>-30 %</u> <u>6,100 feet</u> 3,300 lbs/LCY Basalt n Factor Skill: | andbook LCY/hr k, avg. ripped or | blasted 0.7 | h 1 foot | |

Task # 001B

| Visibili | y: 1.000 | (AVG.) |
|----------------------------|---------------|---------------|
| Job efficience | ey: 0.830 | (1 SHIFT/DAY) |
| Spoil pi | le: 0.800 | (FND-RF) |
| Push gradie | nt: 1.601 | (CAT HB) |
| Altituc | le: 1.000 | (CAT HB) |
| Material Weig | nt: 0.697 | (CAT HB) |
| Blade typ | be: 1.000 | (PAT) |
| Net correction | n: 0.4668 | |
| Adjusted unit production: | 653.52 LCY/hr | |
| Adjusted fleet production: | 653.52 LCY/hr | |
| | | |

| Fleet size: | 1 Dozer(s) |
|-------------|-------------|
| Unit cost: | \$0.516/LCY |

| Total job time: | 6.44 Hours |
|-----------------|-------------------|
| Total job cost: | \$2,174 |

BULLDOZER RIPPING WORK

| | Task description: | Rip | the affected land | | | | | |
|----------|-------------------|-------------------------------|--------------------------|--------------------|------------------|------------|----------|------------|
| Site | Goodrich Pit | | Permit Action: | 2025 Inspection | n Perm | it/Job#: | M2019003 | 5 |
| | PROJECT ID | ENTIFICAT | ION | | | | | |
| | Task #: 002 | 2 | State: Colorado | | Abbrev | iation: | None | |
| | | 4/2025 | County: Las Anima | as | | name: | 2 | |
| | User: AN | /IG | • | | | _ | | |
| | Agency | or organization | n name: DRMS | | | | | |
| | HOURLY EQ | UIPMENT C | <u>OST</u> | | | | | |
| | Basic | Machine: Ca | t D8T - 8SU | | Horsepower: | 3 | 10 | |
| | Ripper Att | achment: 3- | Shank Ripper | | Shift Basis: | 1 pe | er day | _ |
| | | | | | Data Source: | (C. | RG) | |
| | Cost Breakdown | <u>:</u> | | | | | | |
| | | | | | Utilization % | | | |
| | | Ownership C | | \$173.32 | NA | | | |
| | р. | Operating C | | \$109.71 | 100 | | | |
| | | er Ownership C | | \$14.53 \$7.95 | <u>NA</u> | | | |
| | Kipj | per Operating C Operator C | | \$7.93 | 100 NA | | | |
| | | Total Unit C | | \$344.10 | NA | | | |
| | | Total Fleet C | | <u> </u> | | | | |
| | | | | 6.19 | | | | |
| | MATERIAL (| DUANTITIES | Sele | ected estimating | method: Area | | | |
| | Alternate Method | <u>ds:</u> | | | | | | |
| Seismic: | NA | | Bank Volume: | NA | BCY | ١ | NA | |
| Area: | 77.39 | acres | Rip Depth (ft): | 2.00 | Volume: 249 | ,712 | E | BCY or CCY |
| | | Source of esti | mated quantity: 80 acre | es less 2.61 acres | 6 | | | |
| | HOURLY PR | ODUCTION | | | | | | |
| | Seismic: | | | | | | | |
| | <u>Seisinie.</u> | | Seismic Velocity: | NA | feet/second | l | | |
| | | | | | | - | | |
| | <u>Area:</u> | Avero | ge Ripping Depth: | 2.56 | feet/pass | | | |
| | | | ge Ripping Depth. | 7.08 | feet/pass | | | |
| | | | e Ripping Length: | 500.00 | feet/pass | | | |
| | | | rage Dozer Speed: | 88.00 | feet/minute | ; | | |
| | | | e Maneuver Time: | 0.25 | minutes/pa | SS | | |
| | | Produc | ction per unit area: | 0.822 | acres/hour | | | |
| | Job Condition Co | orrection Factor | <u>s</u> | | | | | |
| | Un | adjusted Hourl | y Unit Production: | 0.822 | Acres/hr | | | |
| | | | Site Altitude: | 6,100 | feet | | | |
| | | | Altitude Adj: | 1.00 | (CAT HB) | | | |
| | | | Job Efficiency: | 0.83 | (1 shift/day | <i>'</i>) | | |
| | | | Net Correction: | 0.83 | multiplier | | | |
| | | Adjusted | Hourly Unit Production: | 0.68 | Acres/hr | | | |
| | | Adjusted | Hourly Fleet Production: | 1.36 | Acres/hr | | | |
| | JOB TIME AN | ND COST | | | | | | |
| | Fleet size: | 2 | _ Grader(s) | Total job time | e: <u>56.7</u> | 2 | Hour | 'S |
| | Unit cost: | \$504.345 | Per acre | Total job cost | t:\$ 39,0 | 31 | | |

WHEEL LOADER - LOAD AND CARRY WORK

| Fask description: | Spread | topsoil | | | | | | |
|----------------------------------|-------------------------------|----------------------------------|----------|------------------|--------------------|-------------|--------------------|----------------------|
| Goodrich Pit | | Permit Ac | ction: | 2025 Insp | ection | P | ermit/Job#: | M2019005 |
| | | r | | | | | | |
| PROJECT IDENT | IFICATION | | | | | | | |
| Task #: 003 | | | orado | | | | reviation: | None |
| Date: $\frac{4}{14}/20$ | 25 | County: <u>Las</u> | Anima | as | | | Filename: | 3 |
| User: AMG | | | | | | | | |
| Agency or c | rganization nar | ne: DRMS | | | | | | |
| HOURLY EQUIP | MENT COST | <u>C</u> | | | | | | |
| Basic Machine | e: CAT 966H | I | | | Hors | epower: | | 262 |
| Attachment 1 | | | | | | ft Basis: | | er day |
| | | | | | Data | Source: | | CRG) |
| C (D 11 | | | | | | | ` | |
| Cost Breakdown: | | | 1 | Utilizatio | m % | | | |
| Ownership Co | ost/Hour | \$57.78 | | NA | /11 /0 | | | |
| Operating Co | | \$46.25 | | 100 | | | | |
| Operator C | | \$36.85 | | NA | | | | |
| Total Unit C | | \$140.88 | I | | | | | |
| | | | | | | | | |
| Total Fleet C | ost/Hour: | \$281.77 | | | | | | |
| Initial volume: Loose volume: | <u>64,533</u> <u>64,53</u> | | CY CY | Swe | ell factor: | 1.000 | | |
| Sour | ce of estimated | volume: 80 | Acres | , 6" deep | | | | |
| Source of | of estimated swe | | t Hand | | | | | |
| | | | | | | | | |
| HOURLY PRODU | JCTION | | | | | | | |
| Loader Cycle Time: | Unadius | ted Basic Cycle | Time | (load dum | n maneuver | ·)· | 0.500 | minutes |
| | | ed Dasie Cycle | 1 mile | (loud, dulli | p, maneuver | · | 1 | |
| Cycle Time F | | 1 4 10.02 | | | | | r (min.) | Source |
| | | 1 material 0.02 | 2 | | | - | 020 | (Cat HB) |
| Truck Owne | | ed by truck 0.0 non ownership | | ks and load | lers_0.04 | | .020 .040 | (Cat HB) (Cat HB) |
| | | ljustment - fact | | | | | 000 | (Cat HB) |
| Dump T | | nal target 0.00 | | applicable | 0.00 | | 000 | (Cat HB) |
| Dump 1 | | U | Jet Cv | cle Time A | diustment: | | 000 | minutes |
| | | | | ed Basic C | | - | 500 | minutes |
| | | | 5 | | · . | | | _ |
| Rolling Resistance – | Road Condition | <u>15</u> | | | | | | |
| Н | aul: Rutted d | lirt, little mainte | enance | , no water, | 1" tire pene | tration 4.0 | 0 | |
| Ret | arn: Rutted d | lirt, little mainte | enance | , no water, | 1" tire pene | tration 4.0 | 0 | |
| Haul and Return Tim | | | | | | | | |
| | | 1 | 1 | | 1 | I | | |
| | Length | Grade Res. | | Rolling | Total Res | | vel Time | Source |
| | | | | | | | | |
| Haul Route: | (feet) 500 | (%) 0.00 | R | tes. (%) 4.00 | <u>(%)</u> 4.00 | | ninutes)).4222 | (Cat HB) |

Return Route:

500

0.00

4.00

4.00

(Cat HB)

0.3923

| Total Travel Time: | 0.8145 | minutes |
|--------------------|--------|---------|
| Total Cycle Time: | 1.3145 | minutes |

Load Bucket Capacity

| Rated Capacity: | 5.00 | LCY (heaped) |
|---------------------|-------|--|
| Bucket Fill Factor: | 0.900 | Other - soil, boulders, roots (80 -100%) 0.900 |
| Adjusted Capacity: | 4.50 | LCY |

Job Condition Correction Factors Site Altitude: <u>6100</u> feet

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

| Unadjusted Hourly Unit Production: | 205.40 | LCY/Hour |
|------------------------------------|--------|----------|
| Adjusted Hourly Unit Production: | 170.48 | LCY/Hour |
| Adjusted Hourly Fleet Production: | 340.96 | LCY/Hour |

| Fleet size: | 2 | Loader(s) | Total job time: | 189.27 | Hours |
|-------------|---------|-----------|-------------------|----------|-------|
| Unit cost: | \$0.826 | /LCY | Total job cost: _ | \$53,331 | |

REVEGETATION WORK

| Task descri | ption: | Revegetation | | | |
|---------------------------|-------------------------|---|-----------------|----------------------------|---------------------|
| Site: Goodric | h Pit | Permit Action: | 2025 Inspection | Permit/Job | o#: <u>M2019005</u> |
| PROJECT | IDENTIFI | CATION | | | |
| Task #: Date: User: | 004 4/14/2025 AMG | State: Colorado County: Las Anima | S | Abbreviation: Filename: | None 4 |
| Ag TILLING | ency or organ | nization name: <u>DRMS</u> | | | |

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

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|--------------------------------|--------------------------------|------------------------|------------|
| Blue Grama - Hachita | 0.75 | 12.24 | \$21.49 |
| Prairie Clover, Purple - Kaneb | 0.32 | 2.19 | \$14.37 |
| Sideoats Grama - Butte | 1.37 | 4.50 | \$33.09 |
| Little Bluestem - Pastura | 1.01 | 6.03 | \$16.03 |
| Western Wheatgrass - Arriba | 4.00 | 10.10 | \$36.13 |
| Needle and Thread | 0.55 | 1.45 | \$44.79 |
| Needlegrass, Green - Lodorm | 0.48 | 1.99 | \$4.15 |
| Winter Fat | 0.02 | 0.05 | \$0.93 |
| Totals Seed Mix | 8.50 | 38.55 | \$170.98 |

Application

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

MULCHING and MISCELLANEOUS

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$492.78 | \$985.56 |
| Total Mulch Materials Cost/Acre | | | | \$985.56 |

Application

| Description | | Cost /Acre |
|--|-----------------------------------|------------|
| Crimping, with tractor {DMG survey data} | | \$85.37 |
| Power mulcher (MEANS 32 91 13.16 0350) | | \$157.25 |
| | | |
| | Total Mulch Application Cost/Acre | \$242.63 |

| Estimate *Selected Replanti | No. of Acres: ed Failure Rate: ng Work Items: | 25% | Cost /Acre: Cost /Acre*: | |
|---|---|-----|-----------------------------|--|
| Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours: | \$8,152.40 \$148,426 | | | |

EQUIPMENT MOBILIZATION/DEMOBILIZATION

| Task description | on: Mo | bilization | | | | | |
|--|------------------------|---------------------|---------------------|------------|----------------------|-----------------------|----------------------|
| : <u>Goodrich P</u> | 'it | Permit | Action: _2025 | Inspection |] | Permit/Job#: <u>M</u> | 2019005 |
| PROJECT II | DENTIFICATI | <u>ION</u> | | | | | |
| Task #: (| 005 | State: Co | olorado | | Abbre | eviation: None | |
| | 4/14/2025 | | s Animas | | | lename: 5 | |
| | AMG | | | | | | |
| Agend | cy or organization | n name: DRMS | | | | | |
| EQUIPMEN | Γ TRANSPOR | T RIG COST | | | | | |
| | | | | | Shift ba | | |
| | | | | (| Cost Data Sour | rce: CRG Da | ta |
| Tr | uck Tractor Desc | ription: GENE | RIC ON-HIGHV | VAY TRU | JCK TRACTO | OR, 6X4, DIESEI | POWERED. |
| | | 1 | | | (2ND HALF, | | , |
| T | ruck Trailer Desc | cription: G | ENERIC FOLD | | | ROP DECK EQU | IPMENT |
| | | inpuon. O | | | (25T, 50T, AN | | |
| | | | - | TUILLIU | (201,001,111 | (2 1001) | |
| Cost Breakdown | <u>n:</u> | | | | | | |
| Available Rig | g Capacities | 0-25 Tons | 26-50 Tons | 51+ | - Tons | | |
| Owners | hip Cost/Hour: | \$10.44 | \$22.18 | \$2 | .3.94 | | |
| Operat | ing Cost/Hour: | \$26.48 | \$54.55 | \$5 | 5.65 | | |
| | ator Cost/Hour: | \$22.52 | \$22.52 | \$2 | 2.52 | | |
| | per Cost/Hour: | \$0.00 | \$23.53 | \$2 | 23.53 | | |
| | Jnit Cost/Hour: | \$59.44 | \$122.78 | | 25.64 | | |
| | | | | | | | |
| NON ROADA | ABLE EQUIP | MENT: | | | | | |
| Machine | Weight/ | Owner ship | Haul Rig | Fleet | Haul Trip | Return Trip | DOT Permit |
| Description | Unit | Cost/hr/ unit | Cost/hr/uni | Size | Cost/hr/ | Cost/hr/ fleet | Cost/ fleet |
| 1 | (TONS) | | t | | fleet | | |
| SCHRAMM | 0.00 | \$281.20 | \$59.44 | 1 | \$340.64 | \$59.44 | \$250.00 |
| T450WS | | | | | 1 | 1 | |
| T450WS Cat D8T - 8SU | 53.08 | \$187.85 | \$125.64 | 2 | \$626.98 | \$251.28 | \$500.00 |
| | 53.08 25.80 | \$187.85 \$57.78 | \$125.64 \$59.44 | 2 2 | \$626.98 \$234.44 | \$251.28 \$118.88 | \$500.00 \$500.00 |
| Cat D8T - 8SU | 25.80 | | | | | | |
| Cat D8T - 8SU CAT 966H Drill/Broadcast Seeder with | 25.80 | \$57.78 | \$59.44 | 2 | \$234.44 | \$118.88 | \$500.00 |
| Cat D8T - 8SU CAT 966H Drill/Broadcast Seeder with Tractor | 25.80 25.00 | \$57.78 \$41.02 | \$59.44 \$59.44 | 2 2 | \$234.44 \$200.92 | \$118.88 \$118.88 | \$500.00 \$500.00 |
| Cat D8T - 8SU CAT 966H Drill/Broadcast Seeder with | 25.80 25.00 6.00 | \$57.78 | \$59.44 | 2 | \$234.44 | \$118.88 | \$500.00 |

ROADABLE EQUIPMENT:

| Machine Description | Total Cost/hr/ unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet |
|--------------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| ANFO Bulk Delivery Truck | \$300.44 | 1 | \$300.44 | \$300.44 |
| Cap Delivery Truck | \$74.86 | 1 | \$74.86 | \$74.86 |
| Light Duty Pickup, 4x4, 1 T. Crew | \$46.67 | 1 | \$46.67 | \$46.67 |
| Fuel Tanker, 6x4, 210 HP | \$75.02 | 1 | \$75.02 | \$75.02 |
| | | Subtotals: | \$496.99 | \$496.99 |

EQUIPMENT HAUL DISTANCE and Time

| Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed: | TRINIDAD 65.00 65.00 | miles mph |
|---|----------------------------|--------------|
| Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig: | \$16,119.93 | |
| Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig: | \$993.98 | |

Transportation Cycle Time:

| | Non- | |
|-------------------------|-----------|-----------|
| | Roadable | Roadable |
| | Equipment | Equipment |
| Haul Time (Hours): | 1.00 | 1.00 |
| Return Time (Hours): | 1.00 | 1.00 |
| Loading Time (Hours): | 1.33 | NA |
| Unloading Time (Hours): | 1.33 | NA |
| Subtotals: | 4.66 | 2.00 |

| Total job time: | 9.32 | Hours |
|-----------------|----------|-------|
| Total job cost: | \$17,114 | |