




**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> Bedrock Mine #1	<b>MINE/PROSPECTING ID#:</b> M-1997-086	<b>MINERAL:</b> Stone and stone	<b>COUNTY:</b> Pueblo
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> December 5, 2024	<b>INSP. TIME:</b> 12:45
<b>OPERATOR:</b> Siloam Stone, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Mr. Matthew Mueller	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$108,619.06	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Jocelyn Carter Ursula Armstrong	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> January 6, 2025	

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

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

## **OBSERVATIONS**

The inspection of the Bedrock Mine #1, Permit No. M-1997-086, was conducted by Jocelyn Carter and Ursula Armstrong on behalf of the Division of Reclamation, Mining, and Safety (Division/DRMS). Bedrock Mine #1 is operated by Siloam Stone, Inc. and Matthew Mueller was present for the inspection of their behalf. The inspection took place during the afternoon and the weather was clear with cool temperatures and some snow on the ground.

Bedrock Mine #1 is a 112c permit with 329.70 acres, they extract sandstone material for rip-rap, decorative stone, and building stone. The post mine land use is rangeland for the permit area. The site is located about 8.5 miles southeast of Wetmore in Pueblo County. To access the site from the intersection of Colorado 67 (CO-67) and Colorado 96 (CO-96) in Wetmore, travel east on CO-96 for 6.8 miles, turn south on Siloam Rd and continue on Siloam Rd for 8 miles, the entrance to the site is on the east side of the road. The Bedrock Mine #1 mine sign can be seen at the entrance of the site. There are two active mining operations that are located within the permit boundary: the Siloam Mine, Permit No. M-1977-326, operated by General Shale Brick, Inc., and the Pinion Mine, Permit No. M-1997-096 operated by Siloam Stone, Inc. The two operators involved have a working relationship.

At the time of the inspection, the mine was active with two loaders collecting material from the recent openings to the north of the pit and staging it for processing. The operation extracts the usable material at a depth between 15 and 20 feet with various strata being targeted. Layers between the target strata are stockpiled and kept as overburden that will be used as backfill during reclamation operations. There is a clay layer that General Shale Brick, Inc. extracts as their target material for producing bricks. All processing of the extracted stone is done by sorting the stone based on the desired end use. There are no processing facilities on site. The operation breaks up the material and then processes the material and then appears to store the material based on the end use, i.e. decorative stone, building stone, pavers, rip-rap, etc.

Current mining occurring on the site is located north of the other two permit areas. There are several highwalls in this area that average to about 12 feet in height and about 1,400 feet in length. There is another highwall within the Siloam Mine permit area where material has been extracted down to a grey clay layer that General Shale Brick, Inc. extracts. This highwall measures about 14 feet in height and is 1,096 feet in length. This area has not been actively mined for a number of years and will not be active again until after the grey clay layer has been removed. Material that has been extracted and processed is stored on the stone yard and temporary stone storage area in the southern portion of the permit area.

During the inspection of the current extraction area, some tires appeared to have been discarded on a stockpile of broken up material that has not been processed yet. The Operator was advised that the tires need to be removed from the site and properly discarded. Mr. Mueller stated that he would have the tires removed as soon as possible.

The financial warranty held by the Division for this permit is \$108,619. An updated reclamation cost estimate was calculated for this inspection and the current financial warranty is no longer adequate. The updated reclamation cost estimate is attached with this inspection report.

Photos taken during the inspection are included in this report. Questions regarding this inspection should be directed to me, Jocelyn Carter, by email at [Jocelyn.carter@state.co.us](mailto:Jocelyn.carter@state.co.us) or by phone at (720) 666-1065.

## **Records**

A records review was performed for this inspection. There are no open violations or enforcement issues with the permit. The last inspection of the site was completed by Patrick Lennberg on July 14, 2020. The 2024 annual report, map, and fees were submitted on May 18, 2024.

### **Signs and Markers**

There is a sign at the entrance of the mine site in accordance with Rule 3.1.12(1), see Photo #1. Markers were not verified during the inspection.

### **Financial Warranty**

The current financial warranty held for this permit is \$108,619. The updated reclamation cost estimate for the current disturbances observed on site was recalculated to be \$164,503. This is an increased amount of \$55,884. The Division will issue a Surety Increase to the Operator.

### **Roads**

The internal roads for this permit are shared with the other two permits and appear to be stable and in good condition.

### **Explosives**

The permit does have a blasting plan in place, approved through technical revision TR-1 in July of 1999. Mr. Mueller stated that the last time explosives were used at the site had been years but was unable to say for sure when.

### **Topsoil**

There are numerous topsoil stockpiles for this permit and the other two permits, all within this permit boundary. The amount of topsoil/overburden that has been stored appears to be adequate in quantity for reclamation of the currently disturbed areas, see Photos #3 and #4.

## **PHOTOGRAPHS**



Photo #1: Mine sign at the entrance of the site, the lower sign seen on this post s for this permit.





Photo #2: Store product material located to the north of the Pinion Mine permit area and south of the northern extraction area. View looking to the north from the road.



Photo #3: One of the topsoil/overburden stockpiles, seen with snow cover, situated next to a material stockpile located to the southeast of the northern extraction area where current mining is occurring. Looking to the east from the road north of the Pinion Mine permit area.

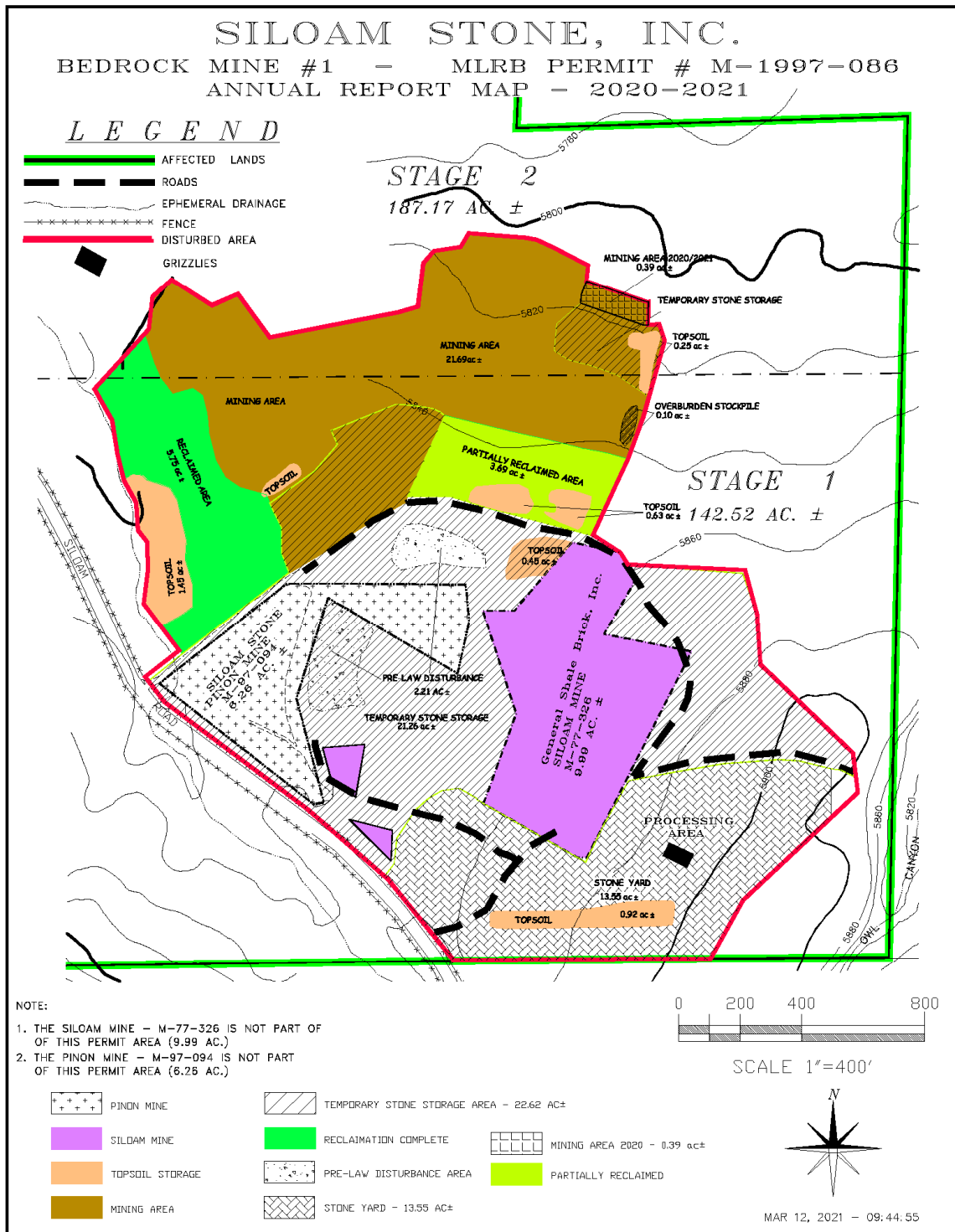




Photo #4: View of the current mining area, looking to the northeast. A wheel loader can be seen working on the pit floor next to a highwall. The large stockpile of material on the far right of the photo is another topsoil/overburden stockpile.



Photo #5: View of the west side of the current extraction area, broken up material can be seen in piles that will be processed and stored accordingly. Tires can be seen in this photo, the Operator stated that those tires would be removed as soon as possible.



2024 annual map submitted for the Bedrock Mine #1 permit.

**Inspection Contact Address**

Mr. Matthew Mueller  
Siloam Stone, Inc.  
3194 Siloam Rd.  
Beulah, CO 81023

Enclosure: Division Reclamation Cost Estimate 2024

CC: Amy Eschberger, DRMS  
Ursula Armstrong, DRMS

## COST SUMMARY WORK

Task description: Cost Summary

Site: Bedrock Mine #1

Permit Action: 2024 UPDATE

Permit/Job#: M1997086

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/2/2025

County: Pueblo

Filename: M086-000

User: JLC

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade Highwall to 3H:1V Slope	DOZER	1	3.10	\$694
002	Backfill Slab Stone Pit Areas	DOZER	1	7.18	\$1,587
003	Spread TS 1' on 29 acres	LOADER	1	132.20	\$24,645
004a	Rip 36 acres of TSSA and Stone Yard	GRADER	1	29.02	\$4,617
005	Spread and Shape TS 29.4 acres	GRADER	1	22.64	\$4,405
006	Revegetation of 29.4 acres related to mining areas	REVEGE	1	15.00	\$54,501
006a	Revegetation of 36.2 acres TSSA, Stone Yard and misc	REVEGE	1	18.00	\$28,339
006b	Weed Control 5.7 acres	REVEGE	1	0.00	\$1,931
007	Mob/Demob	MOBILIZE	1	3.85	\$4,748
<b><u>SUBTOTALS:</u></b>				<b>230.99</b>	<b>\$125,467</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$2,534

Performance bond: 1.05

Total = \$1,317

Job superintendent: 104.10

Total = \$8,252

Profit: 10.00

Total = \$12,547

TOTAL O & P = \$24,651

CONTRACT AMOUNT (direct + O & P) = \$150,118

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$6,380

Reclamation management and/or administration: 5.00

\$7,506

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$39,036

**TOTAL BOND AMOUNT (direct + indirect) = \$164,503**



**BULLDOZER WORK**Task description: **Grade Highwall to 3H:1V Slope**Site: **Bedrock Mine #1**Permit Action: 2024 UPDATEPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 1/2/2025County: PuebloFilename: 001User: JLCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS XR Series IIHorsepower: 240Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$90.24	NA
Operating Cost/Hour:	\$78.95	100
Ripper own. Cost/Hour:	\$9.25	NA
Ripper op. Cost/Hour:	\$5.20	100
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: \$223.68Total Fleet Cost/Hour: **\$223.68****MATERIAL QUANTITIES**Initial Volume: 1,500Swell factor: 1.215Loose volume: **1,823 LCY**Source of estimated volume: DRMS CalculationSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,022.9 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -10 %Average site altitude: 5,800 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% 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:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5740

Adjusted unit production: 587.14 LCY/hr

Adjusted fleet production: **587.14** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.381/LCY

Total job time: **3.10** Hours

Total job cost: **\$694**

**BULLDOZER WORK**Task description: **Backfill Slab Stone Pit Areas**Site: **Bedrock Mine #1**Permit Action: **2024 UPDATE**Permit/Job#: **M1997086****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **1/2/2025**County: **Pueblo**Filename: **M086-002**User: **JLC**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS XR Series II**Horsepower: **240**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$90.24	NA
Operating Cost/Hour:	\$78.95	100
Ripper own. Cost/Hour:	\$9.25	NA
Ripper op. Cost/Hour:	\$2.60	50
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$221.08**Total Fleet Cost/Hour: **\$221.08****MATERIAL QUANTITIES**Initial Volume: **4,000**Swell factor: **1.000**Loose volume: **4,000 LCY**Source of estimated volume: **TR2 Volume Estimate and DRMS Site Visit**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,022.9 LCY/hr**Materials consistency description: **Consolidated stockpile 1.0**Average push gradient: **-5 %**Average site altitude: **5,800 feet**Material weight: **2,900 lbs/LCY**Weight description: **Decomposed rock - 50% Rock, 50% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5449

Adjusted unit production: 557.38 LCY/hr

Adjusted fleet production: **557.38** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.397/LCY

Total job time: **7.18** Hours

Total job cost: **\$1,587**



**WHEEL LOADER – LOAD AND CARRY WORK**Task description: Spread TS 1' on 29 acresSite: Bedrock Mine #1Permit Action: 2024 UPDATEPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 1/2/2025County: PuebloFilename: 003User: JLCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 980HAttachment 1: ROPS CabHorsepower: 315Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$69.00	NA
Operating Cost/Hour:	\$60.57	100
Operator Cost/Hour:	\$56.84	NA
Total Unit Cost/Hour:	\$186.41	
Total Fleet Cost/Hour:	\$186.41	

**MATERIAL QUANTITIES**Initial volume: 46,787

CCY

Swell factor: 1.000Loose volume: 46,787

LCY

Source of estimated volume: DRMS EstimateSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.010	minutes
Adjusted Basic Cycle Time:		0.560	minutes

**Rolling Resistance – Road Conditions**Haul: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Return: 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:	400	0.00	3.00	3.00	0.3092	(Cat HB)
Return Route:	400	0.00	3.00	3.00	0.2917	(Cat HB)

Total Travel Time: 0.6010 minutes  
 Total Cycle Time: 1.1610 minutes

Load Bucket Capacity

Rated Capacity: 7.50 LCY (heaped)  
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100  
 Adjusted Capacity: 8.25 LCY

Job Condition Correction Factors

Site Altitude: 5800 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: 426.37 LCY/Hour  
 Adjusted Hourly Unit Production: 353.89 LCY/Hour  
 Adjusted Hourly Fleet Production: 353.89 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 132.21 Hours  
 Unit cost: \$0.527 /LCY Total job cost: \$24,645

## MOTOR GRADER WORK

Task description: Rip 36 acres of TSSA and Stone Yard

Site: Bedrock Mine #1

Permit Action: 2024 UPDATE

Permit/Job#: M1997086

### PROJECT IDENTIFICATION

Task #: 004A

State: Colorado

Abbreviation: None

Date: 1/2/2025

County: Pueblo

Filename: M086-004a

User: JLC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 120M

Horsepower: 138

Ripper Attachment: Multi-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$52.82	NA
Operating Cost/Hour:	\$43.76	100
Ripper Ownership Cost/Hour:	\$3.06	NA
Ripper Operating Cost/Hour:	\$2.73	100
Operator Cost/Hour:	\$56.70	NA
Total Unit Cost/Hour:	\$159.07	
Total Fleet Cost/Hour:	<b>\$159.07</b>	

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 36.00 acres

Source of estimated acreage: Annual Report and site inspection

### HOURLY PRODUCTION

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

#### Job Condition Correction Factors

Site Altitude: 5800 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.90</u>	(1sh/d, fav.)
Net Correction:	<u>0.9000</u>	multiplier

Adjusted Hourly Unit Production: 1.2404 acres/Hour

Adjusted Hourly Fleet Production: **1.2404** acres/Hour

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **29.02** Hours

Unit cost: \$128.24 per acre Total job cost: **\$4,617**

## MOTOR GRADER WORK

Task description: Spread and Shape TS 29.4 acres

Site: Bedrock Mine #1

Permit Action: 2024 UPDATE

Permit/Job#: M1997086

### PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 1/2/2025

County: Pueblo

Filename: M086-005

User: JLC

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:	\$77.29	NA
Operating Cost/Hour:	\$56.87	100
Ripper Ownership Cost/Hour:	\$3.06	NA
Ripper Operating Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$57.29	NA
Total Unit Cost/Hour:	\$194.51	
Total Fleet Cost/Hour:	<b>\$194.51</b>	

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 29.40 acres

Source of estimated acreage: Annual Report and Site Inspection

### HOURLY PRODUCTION

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

#### Job Condition Correction Factors

Site Altitude: 5800 feet

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

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: **22.65** Hours

Unit cost: \$149.83 per acre Total job cost: **\$4,405**



**REVEGETATION WORK**Task description: Revegetation of 29.4 acres related to mining areasSite: Bedrock Mine #1Permit Action: 2024 UPDATEPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 1/2/2025County: PuebloFilename: M086-006User: JLCAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
<b>Total Tilling Cost/Acre</b>	<b>\$456.41</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.59
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$2.28
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$5.05
Russian Wildrye - Bozoisky	2.00	8.03	\$22.15
Smooth Brome - Lincoln	2.00	6.66	\$9.71
Intermediate Wheatgrass - Oahe	2.00	4.27	\$9.29
Slender Wheatgrass - Native	1.00	3.65	\$7.06
		45.27	<b>\$60.13</b>

<b>Totals Seed Mix</b>	10.00		
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**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$985.56</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
<b>Total Mulch Application Cost/Acre</b>	<b>\$85.37</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 29.4  
 Estimated Failure Rate: 10%  
 \*Selected Replanting Work Items: SEEDING

Cost /Acre: \$1,824.11  
 Cost /Acre\*: \$296.77

Initial Job Cost: **\$53,628.83**  
 Reseeding Job Cost: **\$872.50**  
 Total Job Cost: **\$54,501**  
 Job Hours: **15.00**

**REVEGETATION WORK**Task description: Revegetation of 36.2 acres TSSA, Stone Yard and miscSite: Bedrock Mine #1Permit Action: 2024 UPDATEPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 006AState: ColoradoAbbreviation: NoneDate: 1/2/2025County: PuebloFilename: M086-006aUser: JLCAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
<b>Total Tilling Cost/Acre</b>	<b>\$456.41</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.59
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$2.28
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$5.05
Russian Wildrye - Bozoisky	2.00	8.03	\$22.15
Smooth Brome - Lincoln	2.00	6.66	\$9.71
Intermediate Wheatgrass - Oahe	2.00	4.27	\$9.29
Slender Wheatgrass - Native	1.00	3.65	\$7.06
		<b>45.27</b>	<b>\$60.13</b>

<b>Totals Seed Mix</b>	10.00		
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**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

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

**Application**

<b>Description</b>	<b>Cost /Acre</b>
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	36.2	Cost /Acre:	\$753.18
Estimated Failure Rate:	10%	Cost /Acre*:	\$296.77
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	<b>\$27,265.12</b>
Reseeding Job Cost:	<b>\$1,074.31</b>
Total Job Cost:	<b>\$28,339</b>
Job Hours:	<b>18.00</b>



**REVEGETATION WORK**Task description: Weed Control 5.7 acresSite: Bedrock Mine #1Permit Action: 2024 UPDATEPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 006BState: ColoradoAbbreviation: NoneDate: 1/2/2025County: PuebloFilename: M086-006bUser: JLCAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**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 – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
<b>Totals Seed Mix</b>	0.00	0.00	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$

<b>Total Seed Application Cost/Acre</b>	<b>\$0.00</b>
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**MULCHING and MISCELLANEOUS****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 5.7  
 Estimated Failure Rate: 0%  
 \*Selected Replanting Work Items: TILLING

Cost /Acre: \$338.80  
 Cost /Acre\*: \$338.80

Initial Job Cost: **\$1,931.16**  
 Reseeding Job Cost: **\$0.00**  
 Total Job Cost: **\$1,931**  
 Job Hours: **0.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob/Demob**Site: **Bedrock Mine #1**Permit Action: 2024 UPDATEPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 1/2/2025County: PuebloFilename: M086-007User: JLCAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

**NON 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 D7R DS XR Series II	35.93	\$99.49	\$122.78	1	\$222.27	\$122.78	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	1	\$191.78	\$122.78	\$250.00
CAT 140M	16.68	\$80.35	\$59.44	1	\$139.79	\$59.44	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00

Subtotals: **\$754.76** **\$423.88** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$108.47	1	\$108.47	\$108.47

Subtotals: **\$108.47** **\$108.47**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PUEBLO</u>	
Total one-way travel distance:	<u>20.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,668.62</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$78.89</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.36</u>	<u>0.36</u>
Return Time (Hours):	<u>0.36</u>	<u>0.36</u>
Loading Time (Hours):	<u>0.70</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.93</u>	<u>0.73</u>

**JOB TIME AND COST**

Total job time:	<u>3.85</u>	Hours
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Total job cost:	<u>\$4,748</u>
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