




**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> Iron Mountain Road Gravel Pit	<b>MINE/PROSPECTING ID#:</b> M-1994-092	<b>MINERAL:</b> Gravel	<b>COUNTY:</b> Fremont
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> May 23, 2024	<b>INSP. TIME:</b> 08:50
<b>OPERATOR:</b> Rocky Mountain Excavating, LLC	<b>OPERATOR REPRESENTATIVE:</b> Shawnee Koch, Bennie Koch, Bennie Koch Jr.	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$18,220.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Jocelyn Carter	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> June 25, 2024	

**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>Y</u>	(EX) EXPLOSIVES----- <u>Y</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(RS) RECL PLAN/COMP-- <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>NA</u>	(ST) STIPULATIONS----- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</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 inspection of the Iron Mountain Road Gravel Pit was conducted by me, Jocelyn Carter, on behalf of the Division of Reclamation, Mining, and Safety (Division/DRMS). Shawnee Koch, Bennie Koch, and Bennie Koch Jr. were present during the inspection representing Rocky Mountain Excavating, LLC., the Operator. The weather was clear, with a slight breeze, and warm temperatures at the time of the inspection. The week prior to the inspection, the area experienced one snow event and three rain events.

Iron Mountain Road Gravel Pit is about 14 miles southwest of Canon City in Fremont County, Colorado. To access the site from the intersection of U.S. Highway 50 and County Road 3, travel south on County Road 3 for 2.6 miles, stay to the west on Copper Gulch Road for 10 miles, then travel east on County Road 1 for 0.7 miles, the entrance to the site is on the north side of the road. There is a mine sign posted in accordance with Rule 3.1.12(1) at the gate (see Photo #1).

There was no mining activity occurring during the inspection, the equipment on site included four screeners and crushers, a generator, a hydraulic excavator, a wheel loader, and a flatbed trailer. There was a large stockpile of processed material and a series of smaller stockpiles of processed material observed near the largest screener and crusher (see Photo #4). There were multiple stockpiles of larger material observed around the perimeter of the pit floor. There were also a few concrete blocks observed near where the hydraulic excavator was parked (see Photo #8).

Amber Pike with the BLM Royal Gorge Field Office contacted me regarding the financial warranty for this site. The operation is reaching the end of their contract with the BLM and a new financial warranty needed to be calculated for the renewed contract. The updated reclamation cost estimate (RCE) calculated by DRMS is attached to this report.

Photographs taken during this inspection are included at the end of this inspection report.

Any 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 completed for this application. The recent annual report was submitted January 12, 2024, and was not properly completed. The Operator reported that 0.0 acres currently affected; it was observed that 8.43 acres have been affected by the operation, to include the road.

The current bond held for this operation is \$18,220.00. It was last calculated in 2016 as a result of the SO2 application process and is no longer adequate. This operation is on Federal land and an updated financial warranty was calculated in coordination with Amber Pike with the BLM Royal Gorge Field Office. An updated bond calculation is attached to this report.

## **Hydrological Balance**

According to the last inspection, conducted by Tim Cazier on July 24, 2019, there was exposed groundwater on the west end of the pit. The exposed groundwater has been backfilled and there was no exposed groundwater observed during the inspection. There was some water observed on the pit floor in the center of the operation (see Photo #5). The observed water is attributed to a recent spring snow and rain events. There are no apparent issues with the hydrologic balance in the area.

## General Mine Plan Compliance

The operation appeared to be following the approved mining plan.

## Signs and Markers

There was a sign in accordance with Rule 3.1.12 (see Photo #1). The permit boundary is fenced, the fence appeared to be in good condition with no issues.

## Overburden/Developed Waste

Woody material that was removed for the mining operation is stored and segregated from other mineral material to be used in reclamation operations.

## Financial Warranty

The financial warranty was recalculated based on the observed disturbance; the updated RCE is attached to this report. **The Operator will be given until July 9, 2024, to review the Division's cost estimate and provide the Division with any questions or concerns. The Division may issue a surety increase notice after this date. The Operator will have sixty days from the surety increase notice to provide additional financial warranty.**

## Backfill & Grading

The west portion of the pit has been backfilled to address exposed groundwater. The backfilling has prevented the continuance of groundwater exposure, but grading would still need to be done and is included in the attached REC (see Photo #6).

## Processing Facilities

There are no permanent processing facilities on site, but there is a small structure on the east side of the road at the entrance of the mine site. The small shed/shack is about 4' x 4' x 9' and is in good condition (see Photo #10). All processing equipment are mobile units, there were four screeners/crushers observed on site. Two of the four were located on the pit floor and were extended with recent processed stockpiles at the end of the conveyor belts. The other two screeners appeared to have been moved away from the operation and not in use.

## Fish & Wildlife

There does not appear to be any negative impact on the wildlife because of mining operations.

## Roads

The road appears to be in good condition. There does appear to be an issue with the access road, the southern half of the access road leading to the mine site from Iron Mountain Road on the approved maps does not align with the actual route of the road. When this was discussed with the Operator, they stated that the road had always been there and was maintained by BLM. DRMS is currently in communication with BLM to get further clarification on the status of the road.

## Explosives

Explosives are used for the operation by contractors; no explosives are kept on the mine site. The last blasting event occurred in Fall of 2022 according to the Operator.

## Topsoil

The topsoil berms were observed, located along the southwest portion of the permit area. The Topsoil berms appeared to be stable and in good condition. The amount of topsoil is also estimated to be sufficient for reclamation operations.

## Revegetation

Common mullein was observed on site at the time of inspection, the occurrence of the noxious weed was sparse and not considered to be a significant issue by the Division. The Operator stated they will contact the county to have them spray the area.

## PHOTOGRAPHS



Photo #1: Posted mine sign per Rule 3.1.12(1).



Photo #2: View of mine site from north portion of permit area, looking south.





Photo #3: View of mine site from northeast portion of permit area, looking southwest.



Photo #4: View of mine site from northwest portion of permit area, looking southeast. Large screener and crusher and associated processing stockpiles are seen on the right side of the photo.





Photo #5: View of pit from the southeast portion of the permit area, looking to the northwest. The standing water from recent storm events can be seen in the center of the photo.



Photo #6: View of the backfilled area where groundwater had been exposed; from the west portion of the pit floor looking to the west southwest.





Photo #7: View of the recent processing activity, looking to the north.



Photo #8: View of the recently excavated area, the standing water can be seen along with the concrete blocks next to the hydraulic excavator.





Photo #9: View of the upper portion of the road, looking to the south at an equipment parking area, the flatbed trailer, one of the screeners, and the generator can be seen.



Photo #10: View of the pit area to the right and the upper portion of the road can be seen on the left of the photo. The small shack/shed can be seen to the left of the road.

**Inspection Contact Address**

Shawnee Koch, Bennie Koch, Bennie Koch Jr.  
Rocky Mountain Excavating, LLC  
2976 L Path  
Cotopaxi, CO 81223

Enclosure          Reclamation Cost Estimate update

CC:                  Amy Eschberger, DRMS

## COST SUMMARY WORK

Task description: Summary

Site: Iron Mountain Road Gravel Pit Permit Action: 2024 Inspection Permit/Job#: M1994092

### PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None  
Date: 6/17/2024 County: Fremont Filename: M092-000  
User: JLC

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill/Re-grading (3 300-CY Piles)	DOZER	1	2.88	\$742
002	Topsoil Replacement	DOZER	1	16.57	\$4,261
003	Revegetation of 8.43 Acres	REVEGE	1	10.00	\$16,385
004	Mobilization	MOBILIZE	1	3.54	\$1,472
<b><u>SUBTOTALS:</u></b>				<b>32.99</b>	<b>\$22,860</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$462
Performance bond:	1.05	Total =	\$240
Job superintendent:	16.50	Total =	\$1,073
Profit:	10.00	Total =	\$2,286

TOTAL O & P = \$4,061

CONTRACT AMOUNT (direct + O & P) = \$26,921

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$500</u>	Total =	<u>\$500</u>
Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$1,144</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$1,346</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$7,052

**TOTAL BOND AMOUNT (direct + indirect) = \$29,912**



**BULLDOZER WORK**Task description: **Backfill/Re-grading (3 300-CY Piles)**Site: **Iron Mountain Road Gravel  
Pit**Permit Action: **2024 Inspection**Permit/Job#: **M1994092****PROJECT IDENTIFICATION**Task #: **001**  
Date: **6/17/2024**  
User: **JLC**State: **Colorado**  
County: **Fremont**Abbreviation: **None**  
Filename: **M092-001**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:	\$114.76	NA
Operating Cost/Hour:	\$91.98	100
Ripper own. Cost/Hour:	\$9.06	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$257.10**  
Total Fleet Cost/Hour: **\$257.10****MATERIAL QUANTITIES**Initial Volume: **900**  
Swell factor: **1.060**  
Loose volume: **954 LCY**Source of estimated volume: **DRMS (incl. ~600 CY for SW highwall backfill)**  
Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **100 feet**  
Unadjusted hourly production: **714.3 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **-25 %**  
Average site altitude: **7,550 feet**Material weight: **3,250 lbs/LCY**Weight description: **Gravel - Pitrun****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.100	(50% SL)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.708	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4630

Adjusted unit production: 330.72 LCY/hr

Adjusted fleet production: **330.72** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.777/LCY

Total job time: **2.88** Hours

Total job cost: **\$742**

**BULLDOZER WORK**Task description: Topsoil Replacement

Site: Iron Mountain Road Gravel Pit Permit Action: 2024 Inspection Permit/Job#: M1994092

**PROJECT IDENTIFICATION**

Task #: 002 State: Colorado Abbreviation: None  
Date: 6/17/2024 County: Fremont Filename: M092-002  
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:	<u>\$114.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$91.98</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$9.06</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$257.10  
Total Fleet Cost/Hour: \$257.10

**MATERIAL QUANTITIES**

Initial Volume: 6,800  
Swell factor: 1.215  
Loose volume: 8,262 LCY

Source of estimated volume: 6 inches over DRMS-estimated 8.43 acres (incl. access road)Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**

Average push distance: 175 feet  
Unadjusted hourly production: 464.9 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: -20 %  
Average site altitude: 7,500 feet

Material weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</u>	<u>(CAT HB)</u>



Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.0723

Adjusted unit production: 498.51 LCY/hr

Adjusted fleet production: **498.51** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.516/LCY

Total job time: **16.57** Hours

Total job cost: **\$4,261**

**REVEGETATION WORK**Task description: Revegetation of 8.43 AcresSite: Iron Mountain Road Gravel PitPermit Action: 2024 InspectionPermit/Job#: M1994092**PROJECT IDENTIFICATION**Task #: 003  
Date: 6/17/2024  
User: JLCState: Colorado  
County: FremontAbbreviation: None  
Filename: M092-003Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	75.00	pound	\$0.50	\$37.25
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$37.25</b>

**Application**

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$17.42
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$17.42</b>

**TILLING**

Description	Cost /Acre
Chisel plowing {DMG}	\$100.40
<b>Total Tilling Cost/Acre</b>	<b>\$100.40</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.75	12.24	\$11.98
Indiangrass - Cheyenne	1.25	3.81	\$14.13
Little Bluestem - Pastura	0.70	4.18	\$9.44
Sideoats Grama - El Reno	2.70	8.86	\$22.61
Western Wheatgrass - Barton	4.00	10.10	\$28.00
<b>Totals Seed Mix</b>	<b>9.40</b>	<b>39.20</b>	<b>\$86.16</b>

**Application**

--	--

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

## MULCHING and MISCELLANEOUS

## Materials

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

## Application

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

## NURSERY STOCK PLANTING

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

## JOB TIME AND COST

No. of Acres:	<u>8.43</u>	Cost /Acre:	<u>\$1,554.93</u>
Estimated Failure Rate:	<u>25%</u>	Cost /Acre*:	<u>\$1,554.93</u>
*Selected Replanting Work Items:	<u>FERTILIZING,TILLING,SEEDING,MU LCHING</u>		
Initial Job Cost:	<u><b>\$13,108.06</b></u>		
Reseeding Job Cost:	<u><b>\$3,277.01</b></u>		
Total Job Cost:	<u><b>\$16,385</b></u>		
Job Hours:	<b>10.00</b>		



**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilization**Site: **Iron Mountain Road Gravel Pit**Permit Action: **2024 Inspection**Permit/Job#: **M1994092****PROJECT IDENTIFICATION**Task #: **004**  
Date: **6/17/2024**  
User: **JLC**State: **Colorado**  
County: **Fremont**Abbreviation: **None**  
Filename: **M092-004**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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

**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	\$123.82	\$158.17	1	\$281.99	\$158.17	\$250.00

Subtotals: **\$281.99** **\$158.17** **\$250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$14.81	1	\$14.81	\$14.81
Power Mulcher (Bowie LD-90)	\$57.02	1	\$57.02	\$57.02
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44

Subtotals: **\$99.27** **\$99.27**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: CAÑON CITY  
 Total one-way travel distance: 25.00 miles  
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost \* \$1,361.29  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$110.30  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.56</u>	<u>0.56</u>
Return Time (Hours):	<u>0.56</u>	<u>0.56</u>
Loading Time (Hours):	<u>0.33</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.33</u>	<u>NA</u>
Subtotals:	<u>1.77</u>	<u>1.11</u>

**JOB TIME AND COST**

Total job time: 3.54 Hours

Total job cost: \$1,472