




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: Powell's Gravel Pit	MINE/PROSPECTING ID#: M-1995-012	MINERAL: Gravel, sand and stone	COUNTY: Moffat
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: September 13, 2023	INSP. TIME: 13:30
OPERATOR: Cecil C Powell	OPERATOR REPRESENTATIVE: Matt Combes and Cecil Powell	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$9,946.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Zach Trujillo	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 20, 2023	

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>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</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- <u>Y</u>	(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>N</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

OBSERVATIONS

This inspection was conducted by Zach Trujillo of the Colorado Division of Reclamation, Mining and Safety (Division) as part of the normal monitoring program. The Powell's Gravel Pit is a 110c permitted site that includes a total of 9.9 permitted acres. This site is located approximately three miles east of Dinosaur, Colorado and is accessed from Hwy 40. Cecil Powell and Matt Combes represented the operator and accompanied the Division on the inspection.

The mine identification sign and affected area boundary markers are in place and in compliance with Rule 3.1.12. The sign is posted on the gate at the entrance from the Hwy 40.

The site was inactive and is in final reclamation. Site conditions remain similar to that of the previous inspection. The site parking and laydown area had equipment located on site. This equipment was related to powerline maintenance occurring nearby and not associated with mining. Overall the site was stable, no significant erosion was observed.

The Division inspected the remaining "active area" as noted on the 2023 Annual Map located along the south western portion of the site. While no activity during the inspection was occurring, previous reclamation activities included reducing the northern slope back. Additional reclamation activities remaining for this area is topsoil distribution along with reseeding once regrad work has been completed. There is also one additional area in need of regrading and reseeding located along the eastern portion of the site. This accounts 0.13 acres of the remaining disturbance on site. The area is scheduled to be sloped back to conform to the surrounding area and reseeded.

No other problems or violations were cited during this inspection.

Currently the Division holds a Financial Warranty in the amount of \$9,946 for this site. The bond was last recalculated with SR-1. Based on this inspection, the site's remaining reclamation activities remain the same and so the reclamation tasks associated with Powell's Gravel Pit also remain unchanged since the issuance of SR-1. The financial warranty was last calculated by the Division was in 2017 and the costs associated with the reclamation cost estimate have now been updated. The total amount associated with the updated reclamation cost estimate is \$13,460. This is an increase of \$3,514. Attached is the Division's reclamation cost estimate for Powell's Gravel Pit. If the Operator has any questions or comments regarding the increase to the required financial warranty, please provide a response to the Division by October 6, 2023. After this date, the Division will initiate the Surety Increase process.

Responses to this inspection report should be directed to: Zach Trujillo at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 x.8164 or via email at zach.trujillo@state.co.us.

PHOTOGRAPHS



Slope reduction along remaining active area.



Small remaining area in need of regrade and seeding along eastern end of permit.

Inspection Contact Address

Matt Combes and Cecil Powwel
Cecil C Powell
P.O. Box 23
Dinosaur, CO 81610

Enclosure

CC: Amy Eschberger

COST SUMMARY WORK

Task description: Reclaim Powell's Gravel Pit

Site: Powell's Gravel Pit

Permit Action: 2023

Permit/Job#: M1995012

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/20/2023

County: Moffat

Filename: M012-000

User: ZTT

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Grade slopes to 2:1	DOZER	1	4.42	\$1,884
02a	Rip compacted areas	RIPPER	1	0.45	\$203
03a	Apply available topsoil	DOZER	1	1.79	\$763
04c	reveg of 2 acres	REVEGE	1	8.00	\$6,297
05a	Initial mobilization and early fall planting	MOBILIZE	1	2.57	\$2,190
<u>SUBTOTALS:</u>				17.23	\$11,337

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$229

Performance bond: 1.05

Total = \$119

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$1,134

TOTAL O & P = \$1,482

CONTRACT AMOUNT (direct + O & P) = \$12,819

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$641

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$2,123

TOTAL BOND AMOUNT (direct + indirect) = \$13,460

BULLDOZER WORKTask description: Grade slopes to 2:1Site: Powell's Gravel PitPermit Action: 2023Permit/Job#: M1995012**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 9/20/2023County: MoffatFilename: M012-01aUser: ZTTAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 2,000Swell factor: 1.250Loose volume: **2,500 LCY**Source of estimated volume: Operator provided 10'H 350'LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 6,070 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 566.02 LCY/hr

Adjusted fleet production: **566.02** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.754/LCY

Total job time: **4.42** Hours

Total job cost: **\$1,884**

BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: Powell's Gravel Pit Permit Action: 2023 Permit/Job#: M1995012

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 9/20/2023 County: Moffat Filename: C
User: ZTT

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper Ownership Cost/Hour:	\$14.11	NA
Ripper Operating Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$448.16	
Total Fleet Cost/Hour:	\$448.16	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.25 acres Rip Depth (ft): 2.00 Volume: 807 BCY or CCY

Source of estimated quantity: Rip compacted areas 18-24" deep - Operator provided

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 75.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.664 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.664 Acres/hr
Site Altitude: 6,070 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.55 Acres/hr
Adjusted Hourly Fleet Production: **0.55** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **0.45** Hours

Unit cost: \$813.741 Per acre Total job cost: **\$203**

BULLDOZER WORKTask description: Apply available topsoilSite: Powell's Gravel PitPermit Action: 2023Permit/Job#: M1995012**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 9/20/2023County: MoffatFilename: M012-03aUser: ZTTAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 1,000Swell factor: 1.125Loose volume: **1,125 LCY**Source of estimated volume: 2 ac @ 2-3"Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 6,070 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4492

Adjusted unit production: 628.88 LCY/hr

Adjusted fleet production: **628.88** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.678/LCY

Total job time: **1.79** Hours

Total job cost: **\$763**

REVEGETATION WORKTask description: Reveg of 2 acresSite: Powell's Gravel PitPermit Action: 2023Permit/Job#: M1995012**PROJECT IDENTIFICATION**Task #: 04CState: ColoradoAbbreviation: NoneDate: 9/20/2023County: MoffatFilename: CUser: ZTTAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

Description	Cost /Acre
Hand raking (MEANS 32 91 13.23 0250)	\$1,655.28
Total Tilling Cost/Acre	\$1,655.28

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Russian Wildrye - Bozoisky	8.00	32.14	\$51.84
Yellow Sweet Clover - Madrid	1.00	5.97	\$2.83
Slender Wheatgrass - Native	6.00	21.90	\$27.75
Siberian Wheatgrass	28.00	70.71	\$160.30
Kochia, Forage (Prostrate)	4.00	561.80	\$35.90
Totals Seed Mix	47.00	692.51	\$278.62

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$62.72

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: 2 Cost /Acre: \$2,267.85
 Estimated Failure Rate: 40% Cost /Acre*: \$2,201.12
 *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$4,535.70**
 Reseeding Job Cost: **\$1,760.90**
 Total Job Cost: **\$6,297**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Initial mobilization and early fall plantingSite: Powell's Gravel PitPermit Action: 2023Permit/Job#: M1995012**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 9/20/2023County: MoffatFilename: CUser: ZTTAgency 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
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 D8T - 8SU	47.71	\$241.38	\$158.17	1	\$399.55	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Subtotals:					\$488.57	\$240.46	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83
Subtotals:			\$15.83	\$15.83

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: DINOSAUR
 Total one-way travel distance: 5.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$2,185.43
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$4.52
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$2,190