



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

July 15, 2024

Rocky Mountain Excavating, LLC
c/o Bennie Koch
2976 L Path
Cotopaxi, CO 81223

**RE: Iron Mountain Road Gravel Pit, Permit No. M-1994-092; Financial Warranty Increase,
Revision No. SI-2**

Mr. Koch,

On July 15, 2024, the Division of Reclamation, Mining, and Safety (Division/DRMS) increased the current Financial Warranty for this permit to \$29,912.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$11,692.00. A revised bond estimate is attached.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please provide a completed applicable form.

If you have any questions or concerns, please contact me by email at Jocelyn.carter@state.co.us or by phone at (720) 666-1065.

Sincerely,

Jocelyn Carter
Environmental Protection Specialist, DRMS

CERTIFIED MAIL NO.:

Enclosure: June 17, 2024, Reclamation Cost Estimate

Ec: Amy Eschberger, DRMS
Amber Pike, BLM



COST SUMMARY WORK

Task description: Summary

Site: Iron Mountain Road Gravel Pit

Permit Action: 2024 Inspection

Permit/Job#: M1994092

PROJECT IDENTIFICATION

Task #: 000
Date: 6/17/2024
User: JLC

State: Colorado
County: Fremont

Abbreviation: None
Filename: M092-000

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
<u>SUBTOTALS:</u>				32.99	\$22,860

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):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$1,144
Reclamation management and/or administration:	5.00		\$1,346

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$7,052

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

BULLDOZER WORKTask 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** State: **Colorado** Abbreviation: **None**
Date: **6/17/2024** County: **Fremont** Filename: **M092-001**
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:	\$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 WORKTask 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:	\$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: **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/LCY**Weight description: **Top Soil****Job Condition Correction Factor**

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

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 WORKTask 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
			Total Fertilizer Materials Cost/Acre	\$37.25

Application

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

TILLING

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

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
Totals Seed Mix	9.40	39.20	\$86.16

Application

--	--

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

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
Total Mulch Materials Cost/Acre				\$859.57

Application

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

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:	8.43	Cost /Acre:	\$1,554.93
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,554.93
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		
Initial Job Cost:	\$13,108.06		
Reseeding Job Cost:	\$3,277.01		
Total Job Cost:	\$16,385		
Job Hours:	10.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask 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:**

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 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):	0.56	0.56
Return Time (Hours):	0.56	0.56
Loading Time (Hours):	0.33	NA
Unloading Time (Hours):	0.33	NA
Subtotals:	1.77	1.11

JOB TIME AND COST

Total job time: 3.54 Hours

Total job cost: \$1,472