




**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> North Clear Creek Construction Materials Mi	<b>MINE/PROSPECTING ID#:</b> M-2006-039	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Garfield
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> June 24, 2025	<b>INSP. TIME:</b> 09:00
<b>OPERATOR:</b> Chevron Shale Oil Company, a division of Ch Inc.	<b>OPERATOR REPRESENTATIVE:</b> Jim Henderson	<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> \$36,939.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Todd Jesse	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> July 21, 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>N</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</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--- <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 report was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining, and Safety's Active Mines Program. The North Clear Creek Construction Materials Mine is a 110c Operation operated by Chevron Shale Oil Company, a division of Chevron USA. The site is located 17 miles north of Debeque, CO at an elevation of approximately 6,020 feet. Public access is controlled by a gate on Clear Creek Rd at the entrance to Chevron property. Jim Henderson a representative of Chevron was present during the inspection.

### **Financial Warranty:**

The last bond calculation was done in 2019. In an effort to ensure the financial warranty remains adequate to reclaim this site per the requirements of the approved reclamation plan, DRMS has updated the Reclamation Cost Estimate. The updated estimate is attached to this inspection report. Calculations estimate the cost of reclamation to be \$50,667. This is an increase of \$13,728 over the current surety of \$36,939 held by the Division. A Notice of Surety Increase will be sent under a separate cover once the operator has had the opportunity to review the estimate and dispute any calculations.

### **Hydrologic Balance:**

No groundwater has been exposed within the permit boundary. No hydrocarbons are stored on site and there is no evidence of spills noted on site during the inspection.

### **Gen. Compliance With Mine Plan:**

Mining is currently being conducted in the eastern portion of the permit area. The southern portion of the permit area has a vac truck dump where inert material is allowed to dry. Material is extracted from the pit as needed on an irregular basis. Imported materials such as salt gravel are also stored within the permit area.

### **Signs and Markers:**

The mine identification sign and boundary markers are in place and in compliance with Rule 3.1.12. The sign is posted near the entrance to site along the boundary. The permit boundary is marked with posts that are easily identifiable.

Photos that show site conditions can be found at the end of the report.

All responses to this report should be directed to Todd Jesse with the Division's Active Mines Program at DRMS, Room 215, 1001 E. 62nd Ave. Denver, CO 80216. Direct contact can be made at the Division's Grand Junction Field Office, by phone at (720) 688-0626 or by email at [todd.jesse@state.co.us](mailto:todd.jesse@state.co.us).



## PHOTOGRAPHS



Photo 1: View to the east of mine identification sign at the entrance to the permit area.



Photo 2: View to the north of mining area.





Photo 3: View to the south of vac truck dump.



Photo 4: View to the north of imported materials stored in pit.

**Inspection Contact Address**

Jim Henderson  
Chevron Shale Oil Company, a division of Chevron USA, Inc.  
760 Horizon Dr  
Grand Junction, CO 81506

Enclosure: Reclamation Cost Estimate

CC: Travis Marshall, DRMS

## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: North Clear Creek  
Construction Materials Mine

Permit Action: \_\_\_\_\_  
2025-07-17

Permit/Job#: M2006039

### PROJECT IDENTIFICATION

Task #: 000  
Date: 7/17/2025  
User: TJ1

State: Colorado  
County: Garfield

Abbreviation: None  
Filename: M039-000

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Grading slopes to 2H:1V	DOZER	1	2.11	\$506
02a	Transport topsoil from stockpile to 2:1 slope	LOADER	1	16.53	\$2,084
02b	Spread topsoil on disturbed portions	DOZER	1	4.16	\$1,364
03a	Pock the 2:1 slopes	EXCAVATE	1	8.35	\$1,718
04a	Reveg disturbed portion of site	REVEGE	1	13.00	\$27,657
05a	Spread 6" of gravel on staging area	LOADER	1	5.70	\$719
06a	Initial Mobilization of Equipment/Crew	MOBILIZE	1	5.90	\$6,740
06b	Secondary Mobilization of Equipment/Crew	MOBILIZE	1	5.90	\$1,467
<b><u>SUBTOTALS:</u></b>				<b>61.65</b>	<b>\$42,255</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$854
Performance bond:	1.05	Total =	\$444
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$4,226

TOTAL O & P = \$5,523

CONTRACT AMOUNT (direct + O & P) = \$47,778

#### 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>0.00</u>	Total =	<u>\$0</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$2,389</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$8,412

**TOTAL BOND AMOUNT (direct + indirect) = \$50,667**

**BULLDOZER WORK**Task description: Grading slopes to 2H:1V

Site: North Clear Creek Construction Materials Mine Permit Action: 2025-07-17 Permit/Job#: M2006039

**PROJECT IDENTIFICATION**

Task #: 01A State: Colorado Abbreviation: None  
 Date: 7/17/2025 County: Garfield Filename: M039-01a  
 User: TJ1

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D8T - 8SU  
 Horsepower: 310  
 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>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$15.28</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$2.74</u>	<u>30</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>

Total unit Cost/Hour: \$346.09  
 Total Fleet Cost/Hour: **\$346.09**

**MATERIAL QUANTITIES**

Initial Volume: 1,000  
 Swell factor: 1.165  
 Loose volume: **1,165** LCY

Source of estimated volume: 700 LF to a 2:1  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 50 feet  
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Consolidated stockpile 1.0

Average push gradient: 0 %  
 Average site altitude: 6,000 feet

Material weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

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

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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3949

Adjusted unit production: 552.86 LCY/hr

Adjusted fleet production: **552.86** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.626/LCY

Total job time: **2.11** Hours

Total job cost: **\$729**



**WHEEL LOADER – LOAD AND CARRY WORK**Task description: Transport topsoil from stockpile to 2:1 slope

Site: North Clear Creek Construction Materials Mine Permit Action: 2025-07-17 Permit/Job#: M2006039

**PROJECT IDENTIFICATION**

Task #: 02A State: Colorado Abbreviation: None  
 Date: 7/21/2025 County: Garfield Filename: M039-02a  
 User: TJ1

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: CAT 938H Horsepower: 172  
 Attachment 1: ROPS Cab Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$34.85	NA
Operating Cost/Hour:	\$31.71	100
Operator Cost/Hour:	\$59.52	NA
Total Unit Cost/Hour:	\$126.08	
Total Fleet Cost/Hour:	\$126.08	

**MATERIAL QUANTITIES**

Initial volume: 2,952 CCY Swell factor: 1.125  
 Loose volume: 3,321 LCY

Source of estimated volume: Assume 5.49ac (6.49 - TS stockpiles area) covered with 4"  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.483 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.060	minutes
Adjusted Basic Cycle Time:		0.423	minutes

**Rolling Resistance – Road Conditions**

Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0  
 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	300	0.00	8.00	8.00	0.3358	(Cat HB)
Return Route:	300	0.00	8.00	8.00	0.3053	(Cat HB)

Total Travel Time: 0.6411 minutes  
 Total Cycle Time: 1.0636 minutes

Load Bucket Capacity

Rated Capacity: 3.90 LCY (heaped)  
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100  
 Adjusted Capacity: 4.29 LCY

Job Condition Correction Factors

Site Altitude: 6000 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: 242.01 LCY/Hour  
 Adjusted Hourly Unit Production: 200.87 LCY/Hour  
 Adjusted Hourly Fleet Production: 200.87 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 16.53 Hours  
 Unit cost: \$0.628 /LCY Total job cost: \$2,084

**BULLDOZER WORK**Task description: Spread topsoil on disturbed portions

Site: North Clear Creek Construction Materials Mine Permit Action: 2025-07-17 Permit/Job#: M2006039

**PROJECT IDENTIFICATION**

Task #: 02B State: Colorado Abbreviation: None  
 Date: 7/21/2025 County: Garfield Filename: M039-02b  
 User: TJ1

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D8T - 8SU  
 Horsepower: 310  
 Blade Type: Semi-Universal  
 Attachment: NA  
 Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.02</u>	<u>NA</u>

Total unit Cost/Hour: \$328.07  
 Total Fleet Cost/Hour: \$328.07

**MATERIAL QUANTITIES**

Initial Volume: 3,321  
 Swell factor: 1.000  
 Loose volume: 3,321 LCY

Source of estimated volume: Transported volume of topsoil  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 50 feet  
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %  
 Average site altitude: 6,000 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**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:	<u>1.100</u>	<u>(50% SL)</u>

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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5706

Adjusted unit production: 798.84 LCY/hr

Adjusted fleet production: **798.84** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.411/LCY

Total job time: **4.16** Hours

Total job cost: **\$1,364**



## HYDRAULIC EXCAVATOR WORK

Task description: Pock the 2:1 slopes

North Clear Creek      Permit Action:  
Site: Construction Materials Mine      2025-07-17      Permit/Job#: M2006039

### PROJECT IDENTIFICATION

Task #: 03A      State: Colorado      Abbreviation: None  
Date: 7/21/2025      County: Garfield      Filename: M039-03a  
User: TJ1

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 345D L 12'-10" Stick      Horsepower: 380  
Attachment 1: ROPS Cab      Weight (MT): 49.37  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

	Utilization %
Ownership Cost/Hour: <u>\$96.94</u>	<u>NA</u>
Operating Cost/Hour: <u>\$49.40</u>	<u>70</u>
Operator Cost/Hour: <u>\$59.31</u>	<u>NA</u>
Total Unit Cost/Hour: <u>\$205.65</u>	
Total Fleet Cost/Hour: <u>\$205.65</u>	

### MATERIAL QUANTITIES

Initial volume: 2,857      CCY      Swell factor: 1.000  
Loose volume: 2,857      LCY

Source of estimated volume: Field Estimates aprox. 5 ac  
Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: SEVERE  
Secondary Job Condition within Basic Description: SEVERE  
Cycle Time Value: 0.479      minutes

#### Load Bucket Capacity

Rated Capacity: 4.45      LCY (heaped)      Bucket Size Class: Large  
Bucket Fill Factor: 1.100      Other - rock/dirt mixtures (100-120%) 1.100  
Adjusted Capacity: 4.90      LCY

#### Job Condition Correction Factors

Site Altitude: 6000 feet

	Source
Altitude Adj: <u>0.96</u>	<u>(CAT HB)</u>
Job Efficiency: <u>0.83</u>	<u>(1 shift/day)</u>
Net Correction: <u>0.80</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 613.15      LCY/Hour  
Adjusted Hourly Unit Production: 488.56      LCY/Hour  
Adjusted Hourly Fleet Production: 488.56      LCY/Hour

### JOB TIME AND COST

Fleet size: 1      Excavator      Total job time: 8.35      Hours  
Unit cost: \$0.421      /LCY      Total job cost: \$1,718

**REVEGETATION WORK**Task description: Reveg disturbed portion of siteSite: North Clear Creek  
Construction Materials MinePermit Action: 2025-07-17Permit/Job#: M2006039**PROJECT IDENTIFICATION**Task #: 04A  
Date: 7/21/2025  
User: TJ1State: Colorado  
County: GarfieldAbbreviation: None  
Filename: M039-04aAgency 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
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Russian Wildrye - Bozoisky	4.00	16.07	\$45.36
Alfalfa - Ladak (inoculated)	2.00	9.64	\$8.14
Cliffrose	2.70	3.77	\$170.90
Burnett, Small (or Little) - Delar	4.80	6.06	\$21.90
Pubescent Wheatgrass - Luna	5.60	11.57	\$28.69
Rabbitbrush, Rubber	0.50	7.45	\$42.70
Western Wheatgrass - Native	6.40	16.16	\$59.01
Sagebrush, Wyoming Big	0.10	5.91	\$8.07

Saltbush, Four Wing	3.30	4.55	\$67.15
<b>Totals Seed Mix</b>	29.40	81.18	<b>\$451.92</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$279.08
<b>Total Seed Application Cost/Acre</b>	<b>\$279.08</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$38.14	\$38.14
Hydromulch tackifier, <15 ac. {Materials Only}	1.00	ACRE	\$1,459.26	\$1,459.26
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,497.40</b>

**Application**

Description	Cost /Acre
Hydromulching (MEANS 32 92 19.13 1100)	\$1,403.60
Weed spray, hand, non-aquatic area, nox. [DMG]	\$243.21
<b>Total Mulch Application Cost/Acre</b>	<b>\$1,646.81</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: 5.49 Cost /Acre: \$3,875.21  
 Estimated Failure Rate: 30% Cost /Acre\*: \$3,875.21  
 \*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: **\$21,274.90**  
 Reseeding Job Cost: **\$6,382.47**  
 Total Job Cost: **\$27,657**  
 Job Hours: **13.00**

**WHEEL LOADER – LOAD AND CARRY WORK**Task description: Spread 6" of gravel on staging area

North Clear Creek Permit Action:  
 Site: Construction Materials Mine 2025-07-17 Permit/Job#: M2006039

**PROJECT IDENTIFICATION**

Task #: 05A State: Colorado Abbreviation: None  
 Date: 7/21/2025 County: Garfield Filename: M039-05a  
 User: TJ1

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: CAT 938H Horsepower: 172  
 Attachment 1: ROPS Cab Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	<u>\$34.85</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$31.71</u>	<u>100</u>
Operator Cost/Hour:	<u>\$59.52</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$126.08</u>	
Total Fleet Cost/Hour:	<u>\$126.08</u>	

**MATERIAL QUANTITIES**

Initial volume: 807 CCY Swell factor: 1.000  
 Loose volume: 807 LCY

Source of estimated volume: 1ac @ 6"  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.483 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Fragile target 0.05	0.050	(Cat HB)
Net Cycle Time Adjustment:		<u>-0.030</u>	minutes
Adjusted Basic Cycle Time:		<u>0.453</u>	minutes

**Rolling Resistance – Road Conditions**

Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0  
 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	350	0.00	8.00	8.00	0.3918	(Cat HB)
Return Route:	350	0.00	8.00	8.00	0.3561	(Cat HB)



Total Travel Time: 0.7479 minutes  
 Total Cycle Time: 1.2004 minutes

Load Bucket Capacity

Rated Capacity: 3.90 LCY (heaped)  
 Bucket Fill Factor: 0.875 Blasted rock - well blasted (80 - 95%) 0.875  
 Adjusted Capacity: 3.41 LCY

Job Condition Correction Factors

Site Altitude: 6000 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: 170.56 LCY/Hour  
 Adjusted Hourly Unit Production: 141.57 LCY/Hour  
 Adjusted Hourly Fleet Production: 141.57 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 5.70 Hours  
 Unit cost: \$0.891 /LCY Total job cost: \$719

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Secondary Mobilization of Equipment/CrewSite: North Clear Creek  
Construction Materials MinePermit Action: 2025-07-17Permit/Job#: M2006039**PROJECT IDENTIFICATION**

Task #: 06B State: Colorado Abbreviation: None  
 Date: 7/21/2025 County: Garfield Filename: M039-06b  
 User: TJ1

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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

**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
Hydroseeder with Tractor	28.00	\$10.32	\$143.20	1	\$153.52	\$143.20	\$250.00

Subtotals: **\$153.52** **\$143.20** **\$250.00**

**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	\$74.63	1	\$74.63	\$74.63

Subtotals: **\$74.63** **\$74.63**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	DEBEQUE	
Total one-way travel distance:	19.00	miles
Average Travel Speed:	40.00	mph

Total Non-Roadable Mob/Demob Cost *	\$1,395.96
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$70.90
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.48	0.48
Return Time (Hours):	0.48	0.48
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.95	0.95

**JOB TIME AND COST**

Total job time: 5.90 Hours

Total job cost: \$1,467

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Initial Mobilization of Equipment/CrewSite: North Clear Creek  
Construction Materials MinePermit Action: 2025-07-17Permit/Job#: M2006039**PROJECT IDENTIFICATION**

Task #: 06A State: Colorado Abbreviation: None  
 Date: 7/21/2025 County: Garfield Filename: M039-06a  
 User: TJ1

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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

**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	\$179.60	\$143.20	1	\$322.80	\$143.20	\$250.00
CAT 938H	16.34	\$34.85	\$75.46	1	\$110.31	\$75.46	\$250.00
Cat 345D L 12'- 10" Stick	54.31	\$96.94	\$159.59	1	\$256.53	\$159.59	\$250.00
Hydroseeder with Tractor	28.00	\$10.32	\$143.20	1	\$153.52	\$143.20	\$250.00

Subtotals: **\$843.16** **\$521.45** **\$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	\$74.63	1	\$74.63	\$74.63

Subtotals: **\$74.63** **\$74.63**



**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	DEBEQUE	
Total one-way travel distance:	19.00	miles
Average Travel Speed:	40.00	mph

Total Non-Roadable Mob/Demob Cost *	\$6,669.02
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$70.90
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.48	0.48
Return Time (Hours):	0.48	0.48
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.95	0.95

**JOB TIME AND COST**

Total job time:	5.90	Hours
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Total job cost:	\$6,740
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