




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: West Rifle Pit	MINE/PROSPECTING ID#: M-1981-006	MINERAL: Sand and gravel	COUNTY: Garfield
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: February 14, 2024	INSP. TIME: 09:00
OPERATOR: Central Aggregates, Inc.	OPERATOR REPRESENTATIVE: William Lee	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$40,834.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Todd Jesse	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: March 5, 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>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>N</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>Y</u>	(TS) TOPSOIL----- <u>N</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>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</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 West Rifle Pit is a 112c Operation operated by the Grand Junction Concrete Pipe Co. The permit is located adjacent to the Colorado River 1 mile west of Rifle, CO at an elevation of approximately 5,500 feet. The site consists of 29.39 acres to be reclaimed for the post mine land use of industrial/commercial and recreation. The Division currently holds a Financial Warranty in the amount of \$40,834.00 for the site. William Lee, a representative of Central Aggregates Inc., was present for the inspection.

Mining has been conducted according to the approved mine plan. The required mine identification signage was posted at an entrance to the site. Permit boundaries are clearly marked with berms and posts. The berms also control stormwater on site. No active mining was observed during the inspection. The on-site support facilities consist of an office and hop buildings with fuel storage. Fuel is stored within secondary containment. Used oil is also stored within secondary containment. Screening equipment is present in the center of the Stockpile Area but was not in use at the time of the inspection. There are multiple product stockpiles around the screening equipment. The site produces various sizes of river rock as a principal product.

The general configuration of the permit area matches the approved Reclamation Map. The slopes of the ponds appear to be at reclamation grade and the banks are vegetated with volunteer species – no seeding has been conducted. Geese were seen on the pond and signs of beaver were also observed. The current mining area is in the northeast corner of the permit boundary. The site displays good housekeeping and is orderly. No state listed noxious species were identified within the permit boundary. Thistle and cheat grass were identified outside of the permit boundary adjacent to the site. The operator stated that they frequently remove noxious weeds from the site. The Division recommends that the operator reach out to Garfield County Vegetation Management to develop a Weed Management Plan (970 945-1377 ext. 4305).

The Division currently holds a financial warranty in the amount of \$40,834.00 for this site. In an effort to ensure the Financial Warranty adequately reflects the actual current cost of fulfilling the requirements of the approved reclamation plan the Division updated the reclamation cost estimate. The current bond is found to be sufficient. A copy of the Reclamation Cost Estimate is attached to this report.

No problems or possible violations were noted. Photos that show the conditions observed during the inspection are included at the end of this 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.

PHOTOGRAPHS



View to the south of proper Mine ID signage at the entrance to the site.



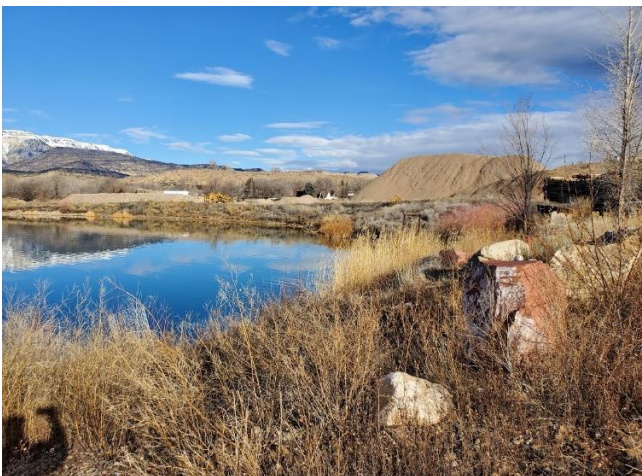
View to the southwest of proper boundary marker.



View to the northeast of the mining area



View to the west of processing equipment



View to the northwest of slope along pond



View to the east of fuel storage in secondary containment.

Inspection Contact Address

William Lee
Central Aggregates, Inc.
P.O. Box 1877
Rifle, CO 81650

CC: Travis Marshall, DRMS

COST SUMMARY WORK

Task description: _____

Site: West Rifle Pit

Permit Action: 2024

Permit/Job#: M1981006

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/5/2024

County: Garfield

Filename: M006-000

User: TJ1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Pump pit in Parcel D to allow reclamation grading	PUMPING	1	35.85	\$1,745
002	Grade banks of lake in parcel D	DOZER	1	4.59	\$1,956
003	Placement of topsoil over disturbed areas	DOZER	1	5.13	\$2,189
004	Reveg lake shoreline 0.47 ac	REVEGE	1	8.00	\$1,204
005	Backfill pond in parcel D	DOZER	1	11.87	\$5,064
006	Initial Mobilization to site	MOBILIZE	1	2.32	\$2,846
007	Secondary Mobilization to site	MOBILIZE	1	2.32	\$714
<u>SUBTOTALS:</u>				70.08	\$15,718

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$318

Performance bond: 1.05

Total = \$165

Job superintendent: 35.04

Total = \$2,280

Profit: 10.00

Total = \$1,572

TOTAL O & P = \$4,335

CONTRACT AMOUNT (direct + O & P) = \$20,053

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$1,003

CONTINGENCY: 3.00

Total = \$472

TOTAL INDIRECT COST = \$6,309

TOTAL BOND AMOUNT (direct + indirect) = \$22,027

PUMPING WORK

Task description: Pump pit in Parcel D to allow reclamation grading

Site: West Rifle Pit

Permit Action: 2024

Permit/Job#: M1981006

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 3/5/2024

County: Garfield

Filename: M006-001

User: TJ1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Submersible pump - 460v, 8 in.	1
Attachment 1:	Suction hose - 6 in. diam., 25 ft.	2
Attachment 2:	Discharge hose - 6 in. D., 25 ft.	2
Labor Unit 1:	Pump operator	1
Horsepower:	95	
Shift Basis:	1 per day	
Weight:	0.70	
	(US Tons)	

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$16.94	NA
Operating Cost/Hour:	\$4.04	100
Operator Cost/Hour:	\$27.68	NA
Total Unit Cost/Hour:	\$48.66	
Total Fleet Cost/Hour:	\$48.66	

PUMPING QUANTITIES

Initial Pond Volume:	20.00		Conversion factor:	325850.5800
Final Pond Volume:	6,517,011.60	gallons		
Total Pond Inflow Surface Area:	8,000	Sq. ft.	Unit inflow rate in gph/sq. ft.:	0.1758
Total Pond Inflow Volume per Hour:	1,406.40	gallons		

Source of estimated volume: Mine Maps

PUMPING TIME

Maximum Pump Capacity:	170,000	gph/pump
Estimated Suction Head:	10	feet
Estimated Discharge Head:	5	feet
Total Head:	15	feet
CPB Pump Capacity:	168,000	gph/pump
Site Altitude:	5,300	feet
Adjusted Pumping Capacity:	168,000	gph
Initial Unadjusted Pumping Time:	38.79	hours
Inflow during Initial Pumping:	54,557	gallons
Net Unadjusted Pumping Time:	39.12	Hours
Altitude Adjustment Factor:	1.0000	(3% rule)
Pump Efficiency Factor:	0.9167	(55 min./hr.)
Total Adjusted Pumping Time:	35.86	hours

JOB TIME AND COST

Total job time: 35.86 Hours

Unit cost: \$0.000266 /Gallon

Total job cost: \$1,745

BULLDOZER WORKTask description: Grade banks of lake in parcel DSite: West Rifle PitPermit Action: 2024Permit/Job#: M1981006**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 3/5/2024County: GarfieldFilename: M006-002User: TJ1Agency 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: 2,861Swell factor: 1.060Loose volume: **3,033** LCYSource of estimated volume: 1030 lft of 20' highwall at 1.5:1 -> 3:1Source 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: -15 %Average site altitude: 5,300 feetMaterial weight: 2,900 lbs/LCYWeight description: Sand and gravel - Dry**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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4724

Adjusted unit production: 661.36 LCY/hr

Adjusted fleet production: **661.36** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.645/LCY

Total job time: **4.59** Hours

Total job cost: **\$1,956**

BULLDOZER WORKTask description: **Placement of topsoil over disturbed areas**Site: **West Rifle Pit**Permit Action: **2024**Permit/Job#: **M1981006****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **3/5/2024**County: **Garfield**Filename: **M006-003**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:	\$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: **\$426.60**Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: **572**Swell factor: **1.000**Loose volume: **572 LCY**Source of estimated volume: **0.47 ac. @ 9" avg. depth**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **500 feet**Unadjusted hourly production: **129.7 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **0 %**Average site altitude: **5,300 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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 111.45 LCY/hr

Adjusted fleet production: **111.45** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$3.828/LCY

Total job time: **5.13** Hours

Total job cost: **\$2,189**

REVEGETATION WORKTask description: Reveg lake shoreline 0.47 acSite: West Rifle PitPermit Action: 2024Permit/Job#: M1981006**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 3/5/2024County: GarfieldFilename: M006-004User: TJ1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	147.10	pound	\$0.62	\$91.69
Muriate of potash, 0-0-60	41.70	pound	\$0.28	\$11.68
			Total Fertilizer Materials Cost/Acre	\$103.36

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$451.62

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Ryegrass, Perennial - Belramo	6.00	34.02	\$10.80
Crested Wheatgrass - Standard	4.50	20.66	\$18.68
Hard Fescue - Brigade	2.25	29.18	\$7.71
Yellow Sweet Clover - Madrid	2.25	13.43	\$6.36
Pubescent Wheatgrass - VNS	9.00	18.60	\$28.35
Streambank Wheatgrass - Sodar	6.00	19.56	\$34.20
Totals Seed Mix	30.00	135.45	\$106.09

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
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$863.58

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Weed spray, truck, aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$137.18

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: 0.47 Cost /Acre: \$1,935.65
 Estimated Failure Rate: 35% Cost /Acre*: \$1,790.47
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$909.76**
 Reseeding Job Cost: **\$294.53**
 Total Job Cost: **\$1,204**
 Job Hours: **8.00**

BULLDOZER WORKTask description: **Backfill pond in parcel D**Site: **West Rifle Pit** Permit Action: **2024** Permit/Job#: **M1981006****PROJECT IDENTIFICATION**

Task #:	005	State:	Colorado	Abbreviation:	None
Date:	3/5/2024	County:	Garfield	Filename:	M006-005
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:	\$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:	\$426.60
Total Fleet Cost/Hour:	\$426.60

MATERIAL QUANTITIES

Initial Volume:	7,407
Swell factor:	1.060
Loose volume:	7,851 LCY

Source of estimated volume:	100' x 100' x 20' excavation
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: **Compacted fill or embankment 0.9**

Average push gradient:	-15 %
Average site altitude:	5,300 feet

Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry**

<u>Job Condition Correction Factor</u>	<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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4724

Adjusted unit production: 661.36 LCY/hr

Adjusted fleet production: **661.36** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.645/LCY

Total job time: **11.87** Hours

Total job cost: **\$5,064**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization to site**Site: **West Rifle Pit**Permit Action: **2024**Permit/Job#: **M1981006****PROJECT IDENTIFICATION**Task #: **006**State: **Colorado**Abbreviation: **None**Date: **3/5/2024**County: **Garfield**Filename: **M006-006**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:**

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
Trash pump - 70MT, 6 in.	0.80	\$24.16	\$82.29	1	\$106.45	\$82.29	\$250.00

Subtotals: **\$595.02** **\$322.75** **\$750.00****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	\$55.12	1	\$55.12	\$55.12

Subtotals: **\$55.12** **\$55.12**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RIFLE, CO</u>	
Total one-way travel distance:	<u>2.00</u>	miles
Average Travel Speed:	<u>25.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,836.88</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$8.82</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.08</u>	<u>0.08</u>
Return Time (Hours):	<u>0.08</u>	<u>0.08</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.16</u>	<u>0.16</u>

JOB TIME AND COST

Total job time: 2.32 Hours

Total job cost: \$2,846

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary Mobilization to siteSite: West Rifle PitPermit Action: 2024Permit/Job#: M1981006**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 3/5/2024County: GarfieldFilename: M006-007User: TJ1Agency 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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00

Subtotals: **\$89.02** **\$82.29** **\$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	\$55.12	1	\$55.12	\$55.12

Subtotals: **\$55.12** **\$55.12**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RIFLE, CO</u>	
Total one-way travel distance:	<u>2.00</u>	miles
Average Travel Speed:	<u>25.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$705.45</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$8.82</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.08</u>	<u>0.08</u>
Return Time (Hours):	<u>0.08</u>	<u>0.08</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.16</u>	<u>0.16</u>

JOB TIME AND COST

Total job time:	<u>2.32</u>	Hours
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Total job cost:	<u>\$714</u>
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