

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M2018055, Tower Pit, March 2023 Inspection Report

1 message

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: Jen Jewett <thetowerpit@gmail.com> Thu, Apr 13, 2023 at 10:52 AM

The inspection report from the snowy March 22 inspection is attached.

Please note that action is required on your part.

Feel free to email or call if you have any questions.

Leigh Simmons Environmental Protection Specialist



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

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M2018055_2023InspectionReportPacket.pdf 1863K



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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Tower Pit	M-2018-055	Sand and gravel	Eagle
INSPECTION TYPE:	WEATHER: Snowing	INSP. DATE:	INSP. TIME:
Monitoring		March 22, 2023	14:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Eagle Rocks Aggregate, Inc.	Steve Jewett	112c - Construction	Regular Operation
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
N 110 F D	$C_{1} = 1 + D_{1} = 1$	¢101 452 00	

	BOND CALCULATION TYPE:	BOND AMOUNT:
	Complete Bond	\$101,453.00
DATE OF COMPLAINT:		JOINT INSP. AGENCY:
NA		None
INSPE	CTOR'S SIGNATURE:	SIGNATURE DATE:
	100	April 12, 2023
	Africa	
	INSPE	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Financial Warranty

PROBLEM/POSSIBLE VIOLATION: Problem: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act. **CORRECTIVE ACTIONS:** Please review the attached Reclamation Cost Estimate and respond with comments within 30 days. After 30 days the Division will initiate a separate Surety Increase notice to increase the financial warranty. The operator will have 60 days from the date on the Surety Increase notice to post the additional financial warranty.

CORRECTIVE ACTION DUE DATE: 5/11/23

OBSERVATIONS

This inspection was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety (Division). The inspection was conducted by Leigh Simmons of the Division, and accompanied by Steve Jewett of Eagle Rocks Aggregate, Inc. (permitee and operator).

The Tower Pit is a 112c operation with a total permit area of 36.7 acres, located about 1 mile east of Gypsum and 5 miles west of Eagle, with access off Hwy 6. The site was active at the time of the inspection.

The pre-mining land use of the site was Rangeland, and the site will ultimately be reclaimed to Rangeland (15 acres) and Industrial/Commercial (22 acres). Mining is proceeding from west to east, with the alluvial deposit removed down to the approximate grade of the highway (approximately a 60 foot depth). Mined material was being crushed and screened on-site. Part of the highwall on the southern boundary has already been reclaimed, with a slope of around 2:1.

The locations of photos taken during the inspection are shown on the screenshot of the field map.

Financial Warranty:

As is usual the Reclamation Cost Estimate (RCE) was re-evaluated following the inspection to ensure that Division continues to hold adequate financial warranty to reclaim the site. In this case no new tasks were added to the RCE, but tasks included in the 2018 estimate were updated with 2023 unit costs, and some indirect costs that had been omitted from the original estimate were added. The total amount has increased to \$183,363, (see Appendix 1).

Hydrologic Balance:

Run-off from the disturbed area remained within the pit and drained to a sediment pond at the west end of the site. The pond was covered in snow, but there was no sign of any discharge. Mr Jewett reported that water on-site tended to infiltrate into the ground.

Gen. Compliance with Mine Plan:

Mr Jewett estimated that approximately 2,100,000 tons of material remained to be mined, (with 600,000 tons already sold). At the current rate of mining he estimated that the mine would be actively producing for another 8-10 years.

Revegetation:

Although the site was snow-covered, some vegetation could be seen poking through the snow on the reclaimed 2:1 slope in the south-west of the permit area.

Signs and Markers:

The Mine ID sign was posted at the entrance to the site.



Figure 1: Screen shot of field map (west)



Figure 2: Screenshot of field map (east)

PHOTOGRAPHS



Figure 3: Reclaimed slope on south west boundary of permit area



Figure 4: Eastern limit of current mining disturbance



Figure 5: Crushing and screening facilities



Figure 6: Sediment pond



Figure 7: Future mining and reclamation will see 2:1 slope carried down to near the small shack



Figure 8: Mine ID sign at entrance

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY PB	(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>N</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>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

Inspection Contact Address Steve Jewett Eagle Rocks Aggregate, Inc. PO Box 4260 Eagle, CO 81631

Enclosures

• Appendix 1: M2018055_RCE_2023

Appendix 1: M2018055_RCE_2023

COST SUMMARY WORK

]	Fask descrip	otion:	Cost estimate re	view and up	date		
Site:	Tower Pi	t	Pe	rmit Action:	2023_Inspection	Permit/Jol	o#: <u>M2018055</u>
<u>P</u>]	ROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None
	Date: User:	4/11/2023 LDS	County:	Eagle		Filename:	M055-000
	Age	ency or organi	zation name: DF	RMS			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	remove truck scale and office trailer	DEMOLISH	1	80.00	\$8,469
002	knock down highwall	DOZER	1	107.69	\$31,096
003	Topsoil	LOADER	1	392.31	\$42,194
004	Reveg	REVEGE	1	0.00	\$40,031
005	Mob/demob	MOBILIZE	1	0.11	\$2,057
	\$123,847				

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,502
Performance bond:	1.05	Total =	\$1,300
Job superintendent:	290.06	Total =	\$21,792
Profit:	10.00	Total =	\$12,385
		TOTAL O & P =	\$37,979
		CONTRACT AMOUNT (direct + O & P) = $($	\$161,826

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	\$500 8.00	_ Total = Total =	\$500 \$12,946	_
Reclamation management and/or administration:	5.00	_	\$8,091	_
CONTINGENCY:	0.00	Total =	\$0	
	TOTAL I	NDIRECT COST =	\$59,516	
TOTAL BO	\$183,363	_		

DEMOLITION WORK

	Task description	n: Remov	e truck scale and office	e trailer			
Site:	Tower Pit		Permit Action: 2	2023_Inspection	P	ermit/Job#:	M2018055
<u>PROJE</u>	CT IDENTIF	ICATION					
Task #	: 001	St	tate: Colorado		Abbrevia	tion: Nor	ie
Date	: 4/11/2023	Cou	County: Eagle Filename: 055-001				
User	LDS						
	Agency	or organization name	e: DRMS				
<u>UNIT C</u>	<u>OSTS</u>				<u>Location</u>	n adjustmer	<u>at: 95.90 %</u>
	ure or Item cription	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
scale		100x 20	Cat 319D L 8'-10" Sti	ck 30.00	EA	\$147.19	\$4,415.70

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$8,831.40	location):	\$8,469.31

30.00

EA

\$147.19

\$4,415.70

Cat 319D L 8'-10" Stick

100x20

office trailer

BULLDOZER WORK

Task description:	Knock of	lown hig	hwall			
Tower Pit		Per	mit Action:	2023_Inspection	Permit/Job#:	M2018055
PROJECT IDEN	TIFICATION					
Task #: 002 Date: 4/11/2 User: LDS		State: County:	Colorado Eagle		Abbreviation: Filename:	None 055-002
Agency or	organization nar	ne: DF	RMS			
HOURLY EQUI	PMENT COST	<u> </u>				
Basic Machine:	Cat D8T - 8SU	ſ				
Horsepower:	310	_				
Blade Type:	Semi-Universa	1		_		
Attachment:	1-shank ripper					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	our:		\$124.85	NA		
Operating Cost/H			\$97.63	100		
Ripper own. Cost/H	our:		\$16.38	NA		
Ripper op. Cost/H	our:		\$8.60	100		
Operator Cost/H	our:		\$41.30	NA		
Total unit Cost/Hour	r: \$288.76					
Total Fleet Cost/Hor	ur: \$288.76					
MATERIAL QU. Initial Volume:	33,333 1.000					
Loose volume:	33,333 LCY					
Source of estimated				on, Mining & Safety		
Source of estimated	swell factor:	Cat Hand	book			
HOURLY PROD	UCTION					
Average push distan		feet				
Unadjusted hourly p		323.4 LC	Y/hr			
Materials consistence	cy description:	Partly o	consolidated	stockpile 1.1		
Average push gradie Average site altitude		t				
Material weight:	2,000 lbs	/LCY				
Weight description:	User Pro	vided				
Job Condition Corre	ection Factor			Source		
	rator Skill:	0.	750	(AVG.)		
Material co			100	(CAT HB)		
	ig method:		100	(50% SL)		
	Visibility:		800	(POOR)		
	. isiointy	0.				

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.422	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.150	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2339	
Adjusted unit production: 30	09.54 LCY/hr	
Adjusted fleet production: 30	19.54 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.933/LCY

Total job time:	107.69 Hours
Total job cost:	\$31,096

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Topsoil					
e: Tower Pit		Permit Action	on: <u>2023_Ins</u>	pection	Permit/Job#:	M2018055
PROJECT IDEN	<u>TIFICATION</u>					
Task #: 003		State: Colora	ado		Abbreviation:	None
Date: $4/11/2$	023	County: Eagle			Filename:	055-003
User: LDS						
Agency or	organization nam	ne: DRMS				
HOURLY EQUI	PMENT COST	-				
Basic Machir	e: CAT 924H			Horsepo	wer:	128
Attachment			-	Shift B		er day
			_	Data Sou	arce: (C	CRG)
Cost Breakdown:						
<u>Cost Breakdown</u>			Utilizatio	on %		
Ownership O	Cost/Hour:	\$35.89	NA			
Operating C		\$30.95	100			
Operator C	Cost/Hour:	\$40.71	NA			
Total Unit C	Cost/Hour:	\$107.55				
Total Fleet	Cost/Hour:	\$107.55				
MATERIAL QU	<u>ANTITIES</u>					
Initial volume:	116,133	CCY	Swe	ell factor: 1.0	00	
Loose volume:	116,13	LCY				
Sou	rce of estimated	volumo: Divid	ion of Poelam	ation, Mining &	Sofoty	
	of estimated swe		landbook	ation, winning &	Salety	
Source	or estimated swe		Idildoook			
HOURLY PROD	UCTION					
Loader Cycle Time:	Unadjuste	ed Basic Cycle T	ime (load, dum	p, maneuver):	0.475	minutes
Cycle Time	Factors				Factor (min.)	Source
M	aterial: No adj	ustment - factor	not applicable (0.00	0.000	(Cat HB)
Sto	ckpile: Conve	yor or dozer pile	d 10 ft. high an	d up 0.00	0.000	(Cat HB)
Truck Own	A	endently owned to			0.040	(Cat HB)
1		ant operation -0.0	4		-0.040	(Cat HB)
Dump	Target: Nomin	al target 0.00	~ . =:		0.000	(Cat HB)
			Cycle Time A		0.000	minutes
		Ad	justed Basic C	ycle Time:	0.475	minutes
Rolling Resistance -	Road Condition	<u>s</u>				
- <u> </u>	Joul Uand are	ooth stabilized	aurfood motor	ad maintainad	2.0	
		ooth, stabilized,				
	i	iooui, stabilizeu,	surraced, water	ca, manitameu	2.0	
Haul and Return Tin	ne					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	G
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source

Haul Route:

Return Route:

25

25

0.00

0.00

2.00

2.00

2.00

2.00

0.0123

0.0123

(Cat HB)

(Cat HB)

			Total Travel Tir	ne: 0.0247	minutes
			Total Cycle Tir	ne: 0.4997	minutes
Load Bucket Capacity					
Rated Capac	eity: 2.70	LCY (hea	ped)		
Bucket Fill Fac	tor: 1.100	Other - ro	ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capac	eity: 2.97	LCY			
Job Condition Correcti Site Altitude: <u>6500</u> fee					
		Source			
Altitude Adj:	1.00	(CAT HB	5)		
Job Efficiency:	0.83	(1 shift/da	y)		
Net Correction:	0.83	multiplier			
ι	Inadjusted Hourly Unit	t Production:	356.65	LCY/Hour	
	Adjusted Hourly Unit	t Production:	296.02	LCY/Hour	
	Adjusted Hourly Flee	t Production:	296.02	LCY/Hour	
JOB TIME AND C	<u>OST</u>				
Fleet size:	1 Loader(s))	Total job time:	392.32	Hours

 Unit cost:
 \$0.363
 /LCY
 Total job cost:
 \$42,194

REVEGETATION WORK

Task descr	iption:	Reveg				
Site: Tower l	Pit	P	ermit Action:	2023_Inspection	Permit/Job	#: M2018055
PROJECT	<u> IDENTIFIC</u>	CATION				
Task #:	004	State:	Colorado		Abbreviation:	None
Date:	4/11/2023	County:	Eagle		Filename:	055-004
User:	LDS				-	

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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Latar	0.60	7.44	\$2.51
Smooth Brome - Lincoln	3.20	10.65	\$10.64
Intermediate Wheatgrass - Rush	5.00	10.67	\$14.00
Sainfoin - Remont	5.00	2.18	\$15.80
Pubescent Wheatgrass - Topar	4.50	9.30	\$14.85
Totals Seed Mix	18.30	40.24	\$57.80

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	5.00	TON	\$421.36	\$2,106.80
Total Mulch Materials Cost/Acre				\$2,106.80

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,726.80
	Total Mulch Application Cost/Acre	\$3,726.80

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	5	Cost /Acre:	\$6,158.62
Estimated Failure Rate:		30%	Cost /Acre*:	\$6,158.62
*Selected Replanti	ng Work Items:	SEEDING, MULCH	ING	
Initial Job Cost:	\$30,793.10			
Reseeding Job Cost:	\$9,237.93			
Total Job Cost:	\$40,031			
Job Hours:	0.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Tower Pit		Permit	Action: <u>2023</u>	_Inspection	<u>1</u>	Permit/Job#: <u>M</u>	12018055
PROJECT IDE	NTIFICATI	ON					
Task #: 005		State: Co	olorado		Abbre	eviation: None	;
Date: 4/1 User: LD	1/2023 S	County: Ea	gle		Fi	ilename: 055-0	005
Agency of	or organization	n name: DRMS					
EQUIPMENT 1	RANSPOR	T RIG COST					
					Shift ba	sis: <u>1 per da</u>	ay
				(Cost Data Sou	rce: CRG Da	ata
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	DR, 6X4, DIESE 2006)	L POWERED,
Truc	c Trailer Desc	ription: G				ROP DECK EQU ND 100T)	IPMENT
	Trailer Desc	ription: G			SENECK, DI (25T, 50T, A)		IIPMENT
Cost Breakdown:]	FRAILER	(25T, 50T, A)		IPMENT
Cost Breakdown: Available Rig Ca	apacities	0-25 Tons	26-50 Tons	TRAILER	(25T, 50T, A) - Tons		IPMENT
Cost Breakdown: Available Rig Ca Ownership	apacities Cost/Hour:	0-25 Tons \$15.25	26-50 Tons \$23.06	<u>FRAILER</u> 51+	(25T, 50T, A) - Tons 37.58		IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26	26-50 Tons \$23.06 \$30.83	TRAILER 51 + \$3 \$5 \$5	(25T, 50T, A) - Tons 37.58 51.41		IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71	26-50 Tons \$23.06 \$30.83 \$27.71	STRAILER 51+ \$2 \$5 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71		IPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26	26-50 Tons \$23.06 \$30.83	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41		IPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22		IPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22		IPMENT
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22	ND 100T)	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT:	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82	S1+ \$3 \$5 \$2 \$2 \$1+	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92	<u>ND 100T)</u>	
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig	S1+ \$1+ \$2 \$2 \$1 \$2 \$2 \$1 \$1 \$2 \$2 \$1 \$1	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip	ND 100T)	DOT Permit
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat 315D L 8'-6"	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	S1+ \$1+ \$2 \$2 \$1 \$2 \$2 \$1 \$1 \$2 \$2 \$1 \$1	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/	ND 100T)	DOT Permit
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat 315D L 8'-6"	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS)	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship Cost/hr/ unit \$68.58 \$141.23	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	51+ \$3 \$5 \$2 \$2 \$1+ \$2 \$2 \$1 Fleet Size	(25T, 50T, A) - Tons - Ton	ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat 315D L 8'-6"	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 19.05	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship Cost/hr/ unit \$68.58	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t \$68.22	S1+ \$3 \$5 \$2 \$1 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet \$273.60	ND 100T) Return Trip Cost/hr/ fleet \$136.44	DOT Permit Cost/ fleet \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GYPSUM	
Total one-way travel distance:	1.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,057.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.03	0.03
Return Time (Hours):	0.03	0.03
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.06	0.06

JOB TIME AND COST

Total job time: **0.11** Hours

Total job cost: **\$2,057**