

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:
Carrizo Stone South		M-2006-024	Sandstone (silica, sto	Baca
			quartzite)	
INSPECTION TYPE:		WEATHER: Cloudy	INSP. DATE:	INSP. TIME:
Monitoring			May 31, 2023	14:00
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	TION:
Carrizo Stone, LLC		Fred Reyes	110c - Construction I	Limited Impact
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program		Complete Bond	\$15,000.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	E:
Brock Bowles			June 9, 2023	
Patrick Lennberg	Bra	4 Danlo		

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>N</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>N</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>N</u>
(SM) SIGNS AND MARKERS <u>N</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 was a routine monitoring inspection conducted Brock Bowles and Patrick Lennberg of the Division of Reclamation, Mining and Safety (Division). Fred Reyes (Operator) was present for the inspection. The weather during the inspection was overcast and warm with a light breeze. The ground was dry.

Mr. Russell Freeman recently purchased the land that Carrizo South is on. He is in the process of submitting an SO to change the operator for the mine. This inspection was conducted at Mr. Freeman's request to evaluate the cost estimate for the surety bond.

The Carrizo Stone South is a 110c mine permitted for 9.9 acres. It is located about 18 mile east of Kim. The primary commodity is construction sandstone and the post mining land use is pastureland.

The mine entrance sign was in place but will have to be updated after the SO is approved with the new operator information. The permit boundary markers were in place on all four sides of the permit area.

No mining was taking place and no machinery was on site. Many old pallets with product on them were staged in the area west of the pit.

The mining pit area consists of a high wall about 200 feet long and 15 feet high (photo 1). The sandstone is mined using an expansive grout mining technique. This technique involves drilling a series of holes in the sandstone and filing the holes with expansive grout. The grout expands over a short period of time creating a fault along the drill holes without the fractures caused by blasting. The stone is then cut to size for transport.

There are a couple of topsoil/overburden piles staged around the perimeter of the pit area (photo 2). The overburden piles had vegetation growing on the north side of the pile, but the south side was bare due to the angle facing the sun. There are also several stone waste piles that can be easily be used to back fill the highwall.

No signs of erosion or noxious weeds were noted.

A cost estimate was calculated as part of this inspection and is attached to this report.

PERMIT #: M-2006-024 INSPECTOR'S INITIALS: BFB INSPECTION DATE: May 31, 2023

PHOTOGRAPHS



Photo 1 – Highwall, pit area facing west



Photo 2 – Topsoil/overburden pile north of pit area.

Inspection Contact Address

Fred Reyes Carrizo Stone, LLC 1425 County Road Q Pritchett, CO 81064

Enclosure- 2023 RCE

CC:

COST SUMMARY WORK

Carrizo	Stone South	Pe	rmit Action:	2023 Cost Estimate	Permit/Job	#: <u>M2006024</u>
PROJECT	IDENTIFICA	TION				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	6/8/2023	County:	Baca		Filename:	M024-000
User:	BFB				-	

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill highwall with waste rock pile (est volume)	DOZER	1	13.05	\$3,768
002	Spread Topsoi/overburden (est volume)l	DOZER	1	2.75	\$782
003	Revegetation	REVEGE	1	0.00	\$6,783
004	Mobilzation	MOBILIZE	1	7.49	\$2,055
		<u>SUBTO</u>	TALS:	23.29	\$13,388

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$270
Performance bond:	1.05	Total =	\$141
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$1,339
		TOTAL O & P =	\$1,750
		CONTRACT AMOUNT (direct + O & P) =	\$15,138

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 5.00	Total =	<u>\$0</u> \$757
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$3,007
TOTAL BO	OND AMOUNT (di	irect + indirect) =	\$16,395

BULLDOZER WORK

			rock pile (est volume)		
Carrizo Stone South	Perm	nit Action:	2023 Cost Estimate	Permit/Job#:	M2006024
PROJECT IDENTIFI	CATION				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: $\frac{6/8}{2023}$	County:	Baca		Filename:	M001
User: BFB	County.	Dava			WIGOT
Agency or organi	ization name: DR	МС			
Agency or organi	Ization name. DR	WIS			
HOURLY EQUIPME	<u>NT COST</u>				
	D8T - 8SU				
Horsepower: 310					
7 1	i-Universal				
	ank ripper				
	r day				
Data Source: (CR	G)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$124.85	NA		
Operating Cost/Hour:		\$97.63	100		
Ripper own. Cost/Hour:		\$16.38	NA		
Ripper op. Cost/Hour:		\$8.60	100		
Operator Cost/Hour:		\$41.30	NA		
	#2 00 = (
Total unit Cost/Hour:	\$288.76				
Total Fleet Cost/Hour:	\$288.76				
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MATERIAL QUANTI Initial Volume: 1,200 Swell factor: 1.000 Loose volume: 1.200		_			
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Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2434	
Adjusted unit production: 91	.96 LCY/hr	
Adjusted fleet production: 91	.96 LCY/hr	

JOB TIME AND COST

Fleet size: Unit cost:	1 Dozer(s) \$3.140/LCY	_
otal job time:	13.05 Hours	

Total job time:13.05 HoursTotal job cost:\$3,768

BULLDOZER WORK

			(est. volume)		
Carrizo Stone South	P	ermit Action:	2023 Cost Estimate	Permit/Job#:	M2006024
PROJECT IDENTIF	TICATION				
Task #: 002	State	: Colorado		Abbreviation:	None
Date: $\frac{6/8}{2023}$				Filename:	M002
User: BFB	County	. Daca		Filename.	1002
Agency or orga	nization name:	DRMS			
HOURLY EQUIPM	ENT COST				
	ut D8T - 8SU				
Horsepower: 31					
*1	mi-Universal				
	shank ripper				
	per day				
Data Source: (C	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$124.85	NA		
Operating Cost/Hour:		\$97.63	100		
Cipper own. Cost/Hour:		\$16.38	NA		
Ripper op. Cost/Hour:		\$4.30	50		
Operator Cost/Hour:		\$41.30	NA		
otal unit Cost/Hour: otal Fleet Cost/Hour:	\$284.46 \$284.46				
otal Fleet Cost/Hour:	\$284.46 <u>FITIES</u>				
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>653</u>	\$284.46 <u>FITIES</u>				
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Spoil pile:		0.900	(SSD-FC)
Push gradient:		0.903	(CAT HB)
Altitude:		1.000	(CAT HB)
Material Weig	ht:	0.868	(CAT HB)
Blade type:		1.000	(PAT)
Net correction	on:	0.4830	
Adjusted unit production:	23	7.59 LCY/hr	
Adjusted fleet production:	23	7.59 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.197/LCY

Total job time:	2.75 Hours
Total job cost:	\$782

REVEGETATION WORK

Task des	cription:	Revegetation			
ite: <u>Carri</u>	zo Stone South	Permit Action:	2023 Cost Estimate	Permit/Job	#: M2006024
<u>PROJE(</u>	CT IDENTIFIC	CATION			
Task	#: 003	State: Colorado		Abbreviation:	None
Dat	e: 6/8/2023	County: Baca		Filename:	M003
2				-	

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
Blue Grama - Native	2.40	39.17	\$32.94
Sand Dropseed	0.20	23.88	\$1.95
Sideoats Grama - Butte	3.20	10.51	\$28.80
Western Wheatgrass - Native	32.00	80.81	\$192.00
Winter Fat	0.20	0.51	\$4.10
Totals Seed Mix	38.00	154.87	\$259.79

Application

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

MULCHING and MISCELLANEOUS

Materials

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

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Ac	re \$0.00

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: Estimated Failure Rate:		30%	Cost /Acre: Cost /Acre*:	
*Selected Replanting	g Work Items:	SEEDING		
Initial Job Cost:	,		-	

0	+) ·
Total Job Cost:	\$6,783
Job Hours:	0.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Carrizo Stone	e South	Permit	Action: 2023	Cost Estin	nate l	Permit/Job#: <u>N</u>	12006024
PROJECT IDE	NTIFICATI	ON					
Task #: 00			olorado		Abbre	viation: None	
Date:6/8/2023County:BacaUser:BFB			Fi	lename: M004	4		
Agency	or organization	n name: DRMS					
EQUIPMENT '	FRANSPOR	T RIG COST					
					Shift ba		
				(Cost Data Sour	rce: CRG Da	ata
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH			OR, 6X4, DIESE	L POWERED,
_					(2ND HALF,		
Truc	k Trailer Desc	ription: G				OP DECK EQU	JIPMENT
				IKAILEK	25T, 50T, AN	ND 1001)	
Cost Breakdown:							
Available Rig (Capacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership Cost/Hour:		\$15.25	\$23.06		7.58		
Operating Cost/Hour:		\$25.26	\$30.83		1.41		
	r Cost/Hour:	\$27.71	\$27.71		7.71		
Helper Cost/Hour:		\$0.00	\$20.22		0.22		
Total Unit Cost/Hour:		\$68.22	\$101.82	\$13	36.92		
NON ROADAE	BLE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
-	(TONS)		t		fleet		
Cat D8T - 8SU	52.21	\$141.23	\$136.92	1	\$278.15	\$136.92	\$250.00
				Subtotals:	\$278.15	\$136.92	\$250.00
					φ2,0,10	\$1000 <i>/</i>	φ=0000

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: Total one-way travel distance: Average Travel Speed:	TRINIDAD 103.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,054.63	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.87	1.87
Return Time (Hours):	1.87	1.87
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	3.75	3.75

JOB TIME AND COST

Total job time:7.49Hours

Total job cost: **\$2,055**