

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:
Cherokee Clay Mine	M-1977-325	Clay (general)	Fremont
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Timothy Cazier, P.E.	September 8, 2022	09:30
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	TION:
The Summit Pressed Brick and Tile Company	Julie Welte	110c - Construction I	Limited Impact
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Partial Bond	\$18,500.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	E:
Clear	Thims also	March 20, 2023	

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>Y</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>NA</u>
(PW) PROCESSING WASTE/TAILING <u>Y</u>	(SF) PROCESSING FACILITIES Y	(TS) TOPSOIL <u>Y</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>Y</u>
(ES) OVERBURDEN/DEV. WASTE Y	(SC) EROSION/SEDIMENTATION Y	(ST) STIPULATIONS <u>Y</u>
(AT) ACID OR TOXIC MATERIALS <u>Y</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as part of the regular monitoring program to assess compliance with the approved mine reclamation permit. The Permittee (Summit Pressed Brick & Tile Company) was represented by Ms. Julie Welte during the inspection. The Cherokee Clay Mine is approximately five miles southwest of Florence and is accessed from Fremont Co Road 84. This is a 110c clay mine. The mine was not operating at the time of the inspection.

<u>Availability of Records:</u> Annual reports are current, having been filed through November 2022, stating the last mining activity was November 21, 2022 and 4.2 acres of disturbance. The previous inspection was on August 1, 2018. The approved post-mine land use is wildlife habitat. There are no open infractions. Both the surface and minerals are privately owned. Record maps delineate a pre-law mine trench on the north side of the current active area. Ms. Welte pointed it out (see **Photo 1**) during the inspection.

Acid And Toxic Materials: No acid or toxic materials are involved in this operation.

<u>Backfilling and Grading</u>: Ms. Welte stated Summit intends to use caprock for backfill when the current pit is mined out. The caprock is interbedded (see **Photo 2**) and stockpiled on the north crest (see **Photo 3**).

Excess Spoil and Dev. Waste: Overburden is not differentiated from topsoil at this site.

<u>Financial Warranty</u>: The \$18,500 bond held by the DRMS was last updated in 2003 and included 8.4 acres of reseeding. The DRMS performed an update to the 2003 bond estimate using updated unit costs and equipment. The revised estimate is \$27,628 (**see attached Cost Summary Work**). The \$18,500 amount is considered adequate for the reported 4.2 acres (exactly half the permitted affected area) of mine related disturbance.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

<u>Gen. Compliance with Mine Plan</u>: The operation appeared to be in compliance with the approved mine plan. The maximum allowed disturbed area is 8.4 acres. Google Earth was used to measure the disturbed area, which was approximately 3.5 acres, based on older 2019 imagery. Highwalls were estimated to be 30 feet in height and appeared stable at roughly 3H:1V (see **Photo 4**).

<u>Off-site Damage</u>: The operation appeared to be confined to the permit boundary, based on Google Earth review and site observations.

Processing Waste: No processing waste was observed.

<u>Roads:</u> The access road is graveled to reduce tracking sediment off site (see **Photo 5**).

Right of Entry: Ms. Welte indicated the lease extended to 2025.

<u>Reclamation Success</u>: No final reclamation has been initiated.

<u>Revegetation:</u> Ms. Welte pointed out the vegetation on the south side (see **Photo 6**) is temporary to help prevent erosion until that area is mined. No noxious weeds were observed.

<u>Sediment Control</u>: Some minor erosion was observed, with no offsite impact. No BMPs were needed at the time of the inspection.

<u>Support Facilities On-site:</u> No equipment was observed on site.

Signs and Markers: The permit sign was properly posted (see Photo 7) and boundary markers were observed

to delineate the permit boundary (see Photo 8).

<u>Permit Stipulations:</u> There are no permit stipulations.

<u>Storm Water MGT Plan</u>: No oil or fuel spills observed. Representatives stated the stormwater management plan is kept in their Pueblo office. The culvert outlet (see **Photo 9**) for the sediment pond in the NW corner was observed to be clear.

Topsoil: A topsoil stockpile was observed on the north side of the pit.

<u>Structures:</u> No new structures were observed from the previous inspection.

<u>Post Inspection Meeting</u>: The need to file for temporary cessation (TC) was discussed. Subsequent to the inspection, mining activities resumed. As such, the need to file for TC is no longer necessary. The Permittee is reminded that if mining activity ceases for more than 180 days, an application for TC must be submitted to the DRMS.

Please contact Tim Cazier (303)328-5229 or email at <u>tim.cazier@state.co.us</u> if you have any questions regarding this report.

PHOTOGRAPHS



Photo 1. Pre-law trench (looking west from north side of active pit).



Photo 2. Interbedded caprock (north highwall, looking NE).



Photo 3. Typical stockpiled caprock on crest of north highwall (looking north).



Photo 4. 3H:1V pit slopes (looking SW from NE crest of north highwall, clay stockpiles circled).



Photo 5. Graveled access/entrance road (SW corner, looking west).



Photo 6. Vegetated south highwall (looking south from pit floor).



Photo 7. Permit sign off County Road 84 (~100 feet north of access road).



Photo 8. Typical T-post boundary marker (east side, non-corner).



Photo 9. Sedpond culvert (inlet clear).

Inspection Contact Address

Julie Welte The Summit Pressed Brick and Tile Company P.O. Box 533 Pueblo, CO 81002

Enclosure: Cost Summary Work

ec: DRMS file

COST SUMMARY WORK

T	ask description:	LOS	t Summai	l y				
Site:	Cherokee Clay Mine			Permit Action:	2023 Update		Permit/Jo	ob#: <u>M1977325</u>
PR	OJECT IDENTIFIC	CATI	<u>ON</u>					
	Task #:000		State	e: Colorado			Abbreviation:	None
	Date: $3/17/2023$		County	y: Fremont			Filename:	M325-000
	User: <u>ICI</u>							
	Agency or organiz	zation	name:	DRMS				
TA	SK LIST (DIRECT	COS	<u>ГS)</u>					
Task	Description				Form Used	Fleet	Task Hours	Cost
001	Grade entire disturbed	d area			DOZER	1	14.61	\$3,118
002	Replace 4" topsoil on	8.4 ac	cres		SCRAPER1	1	8.25	\$3,513
)03	Reseed disturbed area	ıs			REVEGE	1	12.00	\$12,995
004	Mob/Demob equipme	ent			MOBILIZE	1	1.93	\$1,916
					SUBTO	DTALS:	36.7	9 \$21,542
<u>IN</u> OV	DIRECT COSTS TERHEAD AND PROFT	<u> </u>						
<u>IN</u> <u>OV</u>	DIRECT COSTS <u>'ERHEAD AND PROFI'</u> Liability insuran Performance bo Job superintende Pro	<u>T:</u> nce: nd: ent: ofit:	2.02 1.05 12.39 10.00	CONT	RACT AMOUNT	TOTAI c (direct +	Total = 2 $Total = 2$ $Total = 2$ $Total = 2$ $O & P = 2$ $O & P) = 2$	\$435 \$226 \$931 \$2,154 \$3,746 \$25,288
<u>IN</u> <u>OV</u>	DIRECT COSTS <u>'ERHEAD AND PROFI'</u> Liability insuran Performance bo Job superintende Pro GAL - ENGINEERING	<u>T:</u> nce: nd: ent: ofit: - PRC	2.02 1.05 12.39 10.00	CONT	RACT AMOUNT	TOTAI f (direct +	Total = 2 $Total = 2$ $Total = 2$ $Total = 2$ $O & P = 2$ $O & P) = 2$	\$435 \$226 \$931 \$2,154 \$3,746 \$25,288
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BULLDOZER WORK

Task description:	Grade entire dis	turbed area				
Cherokee Clay Mine	Per	rmit Action:	2023 Update	Permit/Jo	b#: <u>M1977325</u>	
ROJECT IDENTIFIC	CATION					
Task #: 001	State:	Colorado		Abbreviation:	None	
Date: 3/17/2023	County:	Fremont		Filename:	M325-001	
User: TC1						
Agency or organi	ization name: DF	RMS				
IOURLY EOUIPMEN	NT COST					
Basic Machine Cat	D7R DS Series II I	GP				
Horsepower: 240			-			
Blade Type: Stra	ight		_			
Attachment: NA	-8		_			
Shift Basis 1 pe	er dav		_			
Data Source: (CR	G)		_			
ost Breakdown:	/		_			
<u>ost Dicardo wii</u> .			Utilization %			
Ownership Cost/Hour:		\$92.78	NA			
Operating Cost/Hour		\$79.33	100			
Rinner own		ψ12.55	100			
Cost/Hour:		\$0.00	NA			
Ripper on Cost/Hour		\$0.00	0			
Operator Cost/Hour:		\$41.30				
IATERIAL QUANTI' Initial Volume: 6,000 Swell factor: 1.000 Loose volume: 6,000	TIES)))) LCY					
Source of estimated volu	me: DRMS 2	$\frac{003}{\text{SI-2 calc}}$	ulation			
Source of estimated swell	I Cat Hand	book				
OURLY PRODUCTI	<u>ION</u>					
Average push distance:	100 feet	/1				
production:	496.4 LCY.	nr				
Materials consistency des	scription: Loose	stockpile 1.2				
	-15 %					
Average push gradient:						
Average push gradient: Average site altitude:	5,900 feet					
Average push gradient: Average site altitude: Material weight:	5,900 feet 2,650 lbs/LCY			_		

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.200	(SLOT)
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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
		÷

Net correction: 0.8272

Adjusted unit production:	410.62 LCY/hr		
Adjusted fleet	410 62 I CV/hr		
production:	410.02 LC 1/III		

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.520/LCY

Total job time:	14.61 Hours
Total job cost:	\$3,118

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SCRAPER TEAM WORK

Site: Cherokee Clay M	line	Permit Action:	2023 Update	F	Permit/Job#: <u>M1</u>	977325
PROJECT IDENT	TFICATION					
Task #• 002	State	v Colorado		Abbra	viation: None	
Date: $3/17/2$	023 County	r Fremont		Abble	lename: M325-	002
User: TC1						002
Agency or o	organization name:	DRMS				
		210.15				
HOURLY EQUIP	MENT_		COSTS	Shift basis: <u>1 per</u>	<u>day</u>	
		Equipmer	nt Description			
	-Scraj	per: Cat 631	G			
Suppo	rt Equipment -Load A	rea: NA				
	-Dump Ai	rea: NA				
Road Ma	ntenance – Motor Grad	der: NA				
	-Water Iru	ick: NA				
Cost Breakdown:	Scraper Work T	eam	Support Equ	ipment	Maintenanc	e Equipment
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Tru
%Utilization-machine:	100	NA	NA	NA	NA	ſ
Ownership cost/hour:	\$200.41	NA	NA	NA	NA	1
Operating cost/hour:	\$194.76	NA	NA	NA	NA	1
%Utilization-ripper:	NA	NA	NA	NA	NA	1
Ripper own. cost/hour:	NA	NA	NA	NA	NA	1
Ripper op. cost/hour:	NA	NA	NA	NA	NA	١
Operator cost/hour:	\$30.90	NA	NA	NA	NA	1
Unit Subtotals:	\$426.07	NA	NA	NA	NA	1
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work:	\$426.07	Support:	\$0.00	Maint:	\$0.00
Total work team cost/	hour: <u>\$426.07</u> NTITIES					
Initial volume:	4,517	CCY LCY	Swell fac	tor: <u>1.215</u>		
Com	the of estimated volum		l on 8 / acres			
Source of	f estimated swell facto	or: Cat Hand	lbook			
<u>HOURLY PRO</u> DU	JCTION					
			Scraper H	Bowl (volume) Ba	usis:	
Material weight	1.600 lbs/LCY		Struck	Volume: 24 00) T	CY
Material description:	Top Soil		Heaped	Volume: 34.00	L	CY
Rated Payload:	81,600 pounds		Average	Volume: 29.00	L	CY
Payload Capacity:	51.00 LCY		Adjusted (Capacity: 29.00	L	CY

<u>0.80</u> Minutes

<u>0.70</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5900 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	-2.00	5.00	3.00	2227	0.36

Haul Time: 0.36 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time
		(%)	(%)	(%)	(fpm)	(min)
1	350.00	2.00	5.00	7.00	1771	0.31
				Return Time:	0.31	minutes
			Total Scraper	team cycle time:	2.17	minutes
			Adjusted fo	r job conditions:	665.53	LCY/Hour
			Selected Nun	nber of Scrapers:	1	Scraper(s)
	Adjusted	single scrape	er team (unit) ho	ourly production:	665.53	LCY/Hour
	Adjusted mu	ltiple scrape	r team (fleet) ho	ourly production:	665.53	LCY/Hour
Optimal	Unadjusted unit proc Number of Scrapers per	luction/hour push dozer	801.84	LCY/Hour		
JOB TIM	IE AND COST					
Fleet	size: 1	Team(s)	To	tal job time:	8.25	Hours

 Fleet size:
 I
 Team(s)
 Total job time:
 8.25

 Unit cost:
 \$0.640
 /LCY
 Total job cost:
 \$3,513

REVEGETATION WORK

Task description:		Reseed disturbed a	ireas				
Site:	Cherokee	e Clay Mine	Permi	it Action:	2023 Update	Permit/Jol	o#: <u>M1977325</u>
<u>P</u>	ROJECT	IDENTIFIC	ATION				
	Task #:	003	State: C	Colorado		Abbreviation:	None
	Date:	3/17/2023	County: H	Fremont		Filename:	M325-003
	User:	TC1					
	Age	ency or organiz	zation name: DRM	S			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Co	st/Acre so oo

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$98.43
Total Tilling Cost/Acre	\$98.43

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.10	17.95	\$17.57
Western Wheatgrass - Arriba	6.50	16.41	\$42.25
Needlegrass, Green - Lodorm	1.80	7.48	\$21.20
Totals Seed Mix	9.40	41.85	\$81.02

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	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
T	otal Mulch Application Cost/Acre	\$214.57

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:	8.4	Cost /Acre:	\$1,468.74
Estimated Failure Rate:	25%	Cost /Acre*:	\$313.02
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$12,337.42
Reseeding Job Cost:	\$657.34
Total Job Cost:	\$12,995
Job Hours:	12.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

		D/Demon equipm	ent				
: Cherokee Clay	Mine	Permit	Action: 2023	Update	1	Permit/Job#: <u>M</u>	1977325
PROJECT IDEM	NTIFICATI	<u>ON</u>					
Task #: 004		State: Co	olorado		Abbre	eviation: None	
Date: 3/17 User: TC1	7/2023 I	County: Fre	emont		Fi	ilename: M325	-004
Agency o	or organization	name: DRMS					
<u>EQUIPMENT T</u>	<u>'RANSPOR'</u>	<u>T RIG COST</u>					
				C	Shift ba Cost Data Sour	sis: 1 per da rce: CRG Da	y ta
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU 400 HP	CK TRACTO (2ND HALF,	OR, 6X4, DIESEI 2006)	POWERED,
Truck	c Trailer Desc	ription: G	ENERIC FOLD	DING GOO TRAILER (SENECK, DF (25T, 50T, AN	ROP DECK EQU ND 100T)	IPMENT
<u>Cost Breakdown:</u>							
Available Rig Ca	apacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership	Cost/Hour:	\$15.25	\$23.06	\$3	7.58		
Operator	Cost/Hour:	\$27.71	\$27.71	\$27.71			
Helper	Cost/Hour:	\$0.00	\$20.22	\$2	0.22		
Total Unit	Cost/Hour:	\$68.22	\$101.82	\$13	36.92		
		ЛЕМТ•					
NON ROADAB	LE EQUIPN						
NON ROADAB	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
NON ROADAB Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
NON ROADAB Machine Description Cat D7R DS Series II LGP	Weight/ Unit (TONS) 34.57	Owner ship Cost/hr/ unit \$92.78	Haul Rig Cost/hr/uni t \$101.82	Fleet Size	Haul Trip Cost/hr/ fleet \$194.60	Return Trip Cost/hr/ fleet \$101.82	DOT Permit Cost/ fleet \$250.00
NON ROADAB Machine Description Cat D7R DS Series II LGP Cat 631G	Weight/ Unit (TONS) 34.57 52.50	Owner ship Cost/hr/ unit \$92.78 \$200.41	Haul Rig Cost/hr/uni t \$101.82 \$136.92	Fleet Size 1	Haul Trip Cost/hr/ fleet \$194.60 \$337.33	Return Trip Cost/hr/ fleet \$101.82 \$136.92	DOT Permit Cost/ fleet \$250.00 \$250.00

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$13.99	1	\$13.99	\$13.99
Power Mulcher (Bowie LD-90)	\$37.56	1	\$37.56	\$37.56
		Subtotals:	\$51.55	\$51.55

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CAÑON CITY	
Total one-way travel distance:	10.50	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,891.58	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$24.06	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.23	0.23
Return Time (Hours):	0.23	0.23
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.97	0.47

JOB TIME AND COST

Total job time: **1.93** Hours

Total job cost: **\$1,916**