

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:
Kunau Site	M-2008-025	Gravel	El Paso
INSPECTION TYPE:	WEATHER: Cloudy	INSP. DATE:	INSP. TIME:
Monitoring		May 4, 2022	11:50
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Tim Kunau	Red Kunau	110c - Construction	Limited Impact
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	

REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program	Complete Bond	\$11,218.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Timothy Cazier, P.E.	Thing alla	September 30, 2022
		· · · ·

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: Availability Of Records

PROBLEM/POSSIBLE VIOLATION No. 1: Problem: Disturbed area is under reported on the annual report as 2.2 acres. 2018 satellite imagery indicates the disturbed area is 3.96 acres.

CORRECTIVE ACTIONS: Provide the correct disturbed area with the 2023 annual report, due 2/17/2023. **CORRECTIVE ACTION DUE DATE:** 2/17/23

INSPECTION TOPIC: Financial Warranty

PROBLEM/POSSIBLE VIOLATION No. 2: 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:** The operator shall submit adequate financial warranty, as determined by the Division. The Division will be sending a separate surety increase notice to the operator regarding the increase of 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: 11/29/22

OBSERVATIONS

This inspection was conducted as part of the regular monitoring program. The Permittee, Tim Kunau was represented by Red Kunau during for the inspection. This is a 110c gravel mine. It was not operating at the time of the inspection. The Kunau Site entrance is located approximately 4.5 miles north of Yoder on Yoder Rd.

<u>Availability of Records:</u> Annual reports are current, having been filed through January 2022, stating the last mining activity at the time was December 15, 2021. This report states the number of acres currently affected is only 2.2. A review of Google Earth imagery indicates the disturbed area is 3.96 acres (including the access road from the fence where the permit sign is posted). <u>The disturbed area discrepancy is cited as Problem 1 on p. 1</u> <u>of this report.</u> Please provide the current disturbance with the February 2023 annual report. The previous inspection was on April 10, 2018. The approved post-mine land use is pastureland. There are no open infractions. Both the surface and minerals are privately owned.

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

<u>Backfilling and Grading</u>: Slopes are variable within the pit. The east (see **Photo 1**) and north (see **Photo 2**) highwalls are sloped at approximately 4H:1V. The South highwall is slightly steeper (see **Photo 3**).

Excess Spoil and Dev. Waste: Overburden is not distinguished from topsoil.

<u>Financial Warranty</u>: The \$11,218 financial warranty has not been updated since 2014. The attached updated reclamation cost effort is \$16,705 and consists of the same tasks in the 2014 DRMS cost estimate with current unit costs. <u>The insufficient bond is cited as a Problem 2 on page 1 of this report</u>. Please submit the additional \$5,487 bond by the corrective action due date.

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 4.59 acres (one of the two non-contiguous designated affected areas in this permit). Google Earth was used to measure the disturbed area, which was approximately 3.96 acres, based on older 2018 imagery. Highwalls were estimated to be 15 feet in height and appeared stable.

<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 two-track access road did not appear to be a source of sediment that could be tracked offsite (see **Photo 4**).

<u>Right of Entry:</u> The property is owned by the Permittee.

<u>Reclamation Success</u>: Mr. Kunau indicated no reclamation has been initiated. It should be noted that the DRMs will require the area covered by the mulch pile south of the pit be re-seeded after the mulch pile is removed and prior to reclamation release.

<u>Revegetation:</u> No noxious weeds were observed.

<u>Sediment Control:</u> No erosion problems were observed and no BMPs were needed at the time of the inspection.

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

<u>Signs and Markers</u>: The permit sign was properly posted (see **Photo 5**) and boundary markers were observed to delineate the four corners of permit boundary (see **Photo 6**).

<u>Permit Stipulations</u>: The Permittee has committed to requesting a surety increase prior to opening up the south pit (undisturbed at the time of the inspection).

<u>Storm Water MGT Plan</u>: No oil or fuel spills observed. Trenches (see **Photo 7**) are dug around the perimeter of the pit to prevent stormwater runon. Stormwater drains to the pit and infiltrates.

<u>Topsoil</u>: A topsoil stockpile is in the north side of the pit and appeared stable (see **Photo 6**).

<u>Structures:</u> No structures were observed within 200 feet of the affected area.

<u>Post Inspection Meeting</u>: No onsite problems were identified during the inspection, but Mr. Kunau was informed the bond would be reviewed and likely need to be increased. Mr. Kunau was also told of the annual report disturbed area discrepancy.

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. East highwall (looking south, note circled mulch stockpile).

PHOTOGRAPHS (cont.)



Photo 2. North highwall and south side of topsoil stockpile (looking west).



Photo 3. South highwall (looking west, note circled mulch stockpile).

PHOTOGRAPHS (cont.)



Photo 4. Two track access road (from gate, looking east).



Photo 5. Permit sign at gate ~750 feet east of Yoder Road.

PHOTOGRAPHS (cont.)



Photo 6. Typical boundary marker (NW corner, looking east; note stormwater trench and topsoil stockpile).



Photo 7. Typical stormwater trench and boundary marker (NE corner, looking south).

GENERAL INSPECTION TOPICS

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

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

Inspection Contact Address

Tim Kunau 23945 Lucky Lane Calhan, CO 80808

Enclosures: Post Inspection Map Bond Estimate

ec: DRMS file, Tim Kunau



COST SUMMARY WORK

Т	ask description:	Cost Summary				
Site:	Kunau Site	Permit Action:	2022 Update		Permit/Jo	b#: <u>M2008025</u>
P	ROJECT IDENTIFICA	TION				
	Task #: 000	State: Colorado			Abbreviation:	None
	Date: 6/21/2022	County: El Paso			Filename:	M025-000
	User: TC1					
	Agency or organizat	ion name: DRMS				
T						
1/	ASK LIST (DIRECT CO	<u> </u>				
Task			Form	Fleet	Task	Cast
001	Description Replacing Topsoil		Used DOZER	Size	Hours 9.05	Cost \$3,406
002	Revegetating Disturbed	Area	REVEGE	1	0.00	\$7,014
003	Equipment Mobilization		MOBILIZE	1	3.64	\$2,699
					10 (0	φ12 110
			<u>SUBT(</u>	OTALS:	12.69	\$13,119
-						
	DIRECT COSTS					
<u>0</u>	VERHEAD AND PROFIT:					
	Liability insurance					265
	Performance bond					138 457
	Job superintendent Profit					1,312
	TIOII	. 10.00		ΤΟΤΑΙ		2,172
		CONT	RACT AMOUN			15,291
					· · · ·	
LE	EGAL - ENGINEERING - P	PROJECT MANAGEMENT	:			
		essing (legal/related costs):	\$0		Total = _\$	0
	5	or contract/bid preparation:	4.25			650
	Reclamation managem	nent and/or administration:	5.00		\$	765
		CONTINGENCY:	0.00		Total = _\$	0
			TOTAL I	NDIREC	$\Gamma \text{ COST} = $	3,586
		TOTAL BO	ND AMOUNT (direct + iı	ndirect) = \$	16,705

BULLDOZER WORK

Bite: Yennit Action: 202 Update YennitJobr; M200202 PCDECT DENTIFICATION Task #: 00 State: Colorado Abbreviation: None Date: G1/2022 County: El Paso Filename: Yen Date: G1/2022 County: El Paso Filename: Yen Date: G1/2022 County: El Paso Filename: Yen Date: Totti Date: Totti Yen Yen Date: Machine: County: El Paso Yen Yen Yen Date: Machine: Yen State: Yen	Task description:	Replacing Topsoil			
Task #: 001 State: Colorado Abbreviation: None Date: 021/2022 County: El Paso Filename: Yes Agency or organization name: DRMS User: Agency or organization name: DRMS User: Stati Date: Stati HOT Agency or organization name: DRMS User: Stati HOT Output Description Output Description Utilization %: Note: Stati Ownership Cost/Hour: \$169.00 NA Ownership Cost/Hour: \$169.00 NA CostHour: \$376.58 Total unit Cost/Hour: \$376.58 Output Exhibit C - Mining Plan (push dist. from Exh D.) Source of estimated swell Cat Handbook Total Piet Cost/Hour: \$250.62 Source of estimated swell Cat Handbook	Site: Kunau Site	Permit Actio	on: 2022 Update	Permit/Jo	b#: <u>M2008025</u>
Date: TC1	PROJECT IDENTIFI	CATION			
Agency or organization name: DRMS	Date: 6/21/2022				
Basic Machine: Cat D10T - 10SU Horsepower: 574 Blade Type: Semi-Universal Attachment: NA Shifi Basis: 1 per day Data Source: CRG) Cost Breakdom: Utilization % Ownership Cost/Hour: \$169.60 Cost/Hour: \$169.60 Cost/Hour: \$169.60 Cost/Hour: \$166.94 Cost/Hour: \$160.90 Ripper own. \$0.00 Cost/Hour: \$160.94 Operator Cost/Hour: \$100 Cost/Hour: \$376.58 Total Unit Cost/Hour: \$376.58 Total Infactor: 1.000 Loose volume: 7.407 Source of estimated volume: Exhibit C - Mining Plan (push dist. from Exh D.) Source of estimated volume: Cat Handbook factor: Cat Source of estimated store; Loncolidated stockpile 1.0 <		ization name: DRMS			
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Average site altitude:6,500 feetMaterial weight:1,600 lbs/LCY		-25 %			
		6,500 feet			
Weight description: Top Soil	Material weight:	1,600 lbs/LCY			
	Weight description:	Top Soil			

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Blade type:	1.000	(PA1)

Net correction: 1.0856

Adjusted unit production:	818.87 LCY/hr
Adjusted fleet production:	818.87 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.460/LCY

Total job time:	9.05 Hours
Total job cost:	\$3,406

REVEGETATION WORK

Task des	cription:	Revegetating Disturbed Are	a		
Site: Kunau	ı Site	Permit Action:	2022 Update	Permit/Job	#: M2008025
<u>PROJEC</u>	T IDENTIFIC	CATION			
Task #	<i>t</i> : 002	State: Colorado		Abbreviation:	None
Date	e: 6/21/2022	County: El Paso		Filename:	Yes
Use	r: TC1			-	

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 - Hachita	1.10	17.95	\$17.57
Little Bluestem - Native	2.00	11.94	\$27.13
Sideoats Grama - Butte	4.40	14.44	\$39.60
Sand Bluestem - Garden Co.	6.00	15.56	\$147.15
Western Wheatgrass - Native	6.00	15.15	\$36.00
Totals Seed Mix	19.50	75.05	\$267.46

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	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$614.04

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$106.29
	Total Mulch Application Cost/Acre	\$106.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	4.6	Cost /Acre:	\$1,219.79
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,219.79
*Selected Replanting Work Items:	SEEDING, MULCHING		

Initial Job Cost:	\$5,611.03
Reseeding Job Cost:	\$1,402.76
Total Job Cost:	\$7,014
Job Hours:	0.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Equ	iipment Mobiliza	tion/Demobiliz	ation			
: Kunau Site		Permit	Action: 2022	Update		Permit/Job#:	M2008025
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 003	3	State: Co	lorado		Abbre	eviation: Non	e
Date: 6/2	1/2022	County: El	Paso		F	ilename: Yes	
User: TC	1						
Agency	or organization	n name: DRMS					
EQUIPMENT 1	<u> TRANSPOR</u>	<u>T RIG COST</u>					
					Shift ba		
					Cost Data Sou	rce: CRG D	Data
	x Tractor Desc			400 HI	P (2ND HALF,		
Truc	k Trailer Desc	ription: Gl				ROP DECK EQ	UIPMENT
			1	RAILER	R (25T, 50T, A)	ND 100T)	
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51	+ Tons		
	Cost/Hour:	\$21.28	\$37.94		647.67		
	g Cost/Hour:	\$26.55	\$50.48	\$	56.21		
Operator	r Cost/Hour:	\$20.54	\$20.54	\$	520.54		
	Cost/Hour:	\$0.00	\$23.53	\$	523.53		
Total Unit	t Cost/Hour:	\$68.37	\$132.49	\$	147.95		
NON ROADAB	LE 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 D10T - 10SU	84.53	\$169.60	\$147.95	1	\$317.55	\$147.95	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00

Subtotals: **\$393.90 \$216.32 \$750.00**

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: Total one-way travel distance: Average Travel Speed:	COLORADO SPRINGS 33.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,699.39	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	_

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.66	0.66
Return Time (Hours):	0.66	0.66
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.82	1.32

JOB TIME AND COST

Total job time: **3.64** Hours

Total job cost: \$2,699