




**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.

<b>MINE NAME:</b> Airport Corner Pit	<b>MINE/PROSPECTING ID#:</b> M-2007-057	<b>MINERAL:</b> Borrow material for	<b>COUNTY:</b> Mineral
<b>INSPECTION TYPE:</b> Monitoring	<b>WEATHER:</b> Clear	<b>INSP. DATE:</b> May 24, 2023	<b>INSP. TIME:</b> 12:45
<b>OPERATOR:</b> Navajo Development Co., Inc.	<b>OPERATOR REPRESENTATIVE:</b> Ethan Franke	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$14,163.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>INSPECTOR(S):</b> Todd Jesse	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> June 8, 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>N</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</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>Y</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>Y</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 inspection report was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation Mining and Safety's Active Mine Program. Airport Corner Pit is a 110c Limited Impact Operation permitted to Navajo Development Co., Inc. The site is located 1 mile south of the town of Creede, CO at an elevation of 8,800 feet. The site consists of 9.24 permitted acres to be reclaimed to support the post mining land use of wildlife habitat. The most recent previous inspection conducted by the Division was in 2017. Ethan Franke of the Headwaters Alliance of Creede, CO was present at the time of the inspection.

The mine identification sign and the affected area boundary markers are in place and in compliance with rule 3.1.12. The mine identification sign is located on a marker and t-posts delineate the permit boundary near the road and on the hillside. No material is being taken from the pit at this time and no material stockpiles are present. No equipment, hydrocarbons, processing facilities or support structures within the permit boundary. There is sporadic activity at the Airport Corner Pit when material is needed for local reclamation projects. The non-profit Headwater Alliance will likely utilize material from the pit in reclamation projects around Willow Creek.

Slopes inside of the mining area are graded to a slope of roughly 2:1. No signs of slumping or other erosional concerns were observed during the inspection. Vegetation cover on the pit slopes is sparse in some areas, but well established in others. Additional seeding would be needed before reclamation is deemed complete. No state listed noxious weeds were observed inside of the permit boundary.

Through a reclamation cost estimate of the application, the Division set the warranty amount at \$14,163.00 for this site. Based on a review of the reclamation plan provided by the operator, the Division performed a reclamation cost estimate as part of the inspection and monitoring process. The current warranty amount is sufficient for the cost of reclamation. Please see attached Cost Summary for details.

All responses to this report should be directed to Todd Jesse with the Division's Active Mines Program at DRMS, Room 215, 1001 E 62<sup>nd</sup> 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](mailto:todd.jesse@state.co.us)

## **PHOTOGRAPHS**



View to the west showing the proper Mine ID signage



View to the north showing marker that delineates the permit area



View to the west showing east end of permit area. Slope of pit is roughly 2:1



View to the west showing western portion of permit area. Some vegetation is present on slopes.

**Inspection Contact Address**

Ethan Franke  
Navajo Development Co., Inc.  
2043 S. Washington St.  
Denver, CO 80210

CC: Travis Marshall, DRMS

## COST SUMMARY WORK

Task description: Summary

Site: Airport Corner Pit

Permit Action: 2023 update

Permit/Job#: M2007057

### PROJECT IDENTIFICATION

Task #: 1

State: Colorado

Abbreviation: None

Date: 6/6/2023

County: Mineral

Filename: M057-1

User: TJ1

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grading/ripping	DOZER	1	2.64	\$745
002	Broadcast seeder	MISCTRUK	1	8.00	\$338
003	harrowing	RIPPER	1	10.33	\$2,986
004	seed mix	REVEGE	1	0.00	\$2,443
005	mobilization	MOBILIZE	1	6.53	\$2,670
<b><u>SUBTOTALS:</u></b>				<b>27.5</b>	<b>\$9,182</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$185

Performance bond: 1.05

Total = \$96

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$918

TOTAL O & P = \$1,200

CONTRACT AMOUNT (direct + O & P) = \$10,382

#### 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: 25.00

\$2,596

CONTINGENCY: 3.00

Total = \$275

TOTAL INDIRECT COST = \$4,571

**TOTAL BOND AMOUNT (direct + indirect) = \$13,753**

**BULLDOZER WORK**Task description: **Grading/ripping**Site: **Airport Corner Pit** Permit Action: **2023 update** Permit/Job#: **M2007057****PROJECT IDENTIFICATION**

Task #: **001** State: **Colorado** Abbreviation: **None**  
 Date: **6/6/2023** County: **Mineral** Filename: **M057-001**  
 User: **TJ1**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D8T - 8SU**  
 Horsepower: **310**  
 Blade Type: **Semi-Universal**  
 Attachment: **3-shank ripper**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$13.10	NA
Ripper op. Cost/Hour:	\$5.48	75
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$282.36	
Total Fleet Cost/Hour:	<b>\$282.36</b>	

**MATERIAL QUANTITIES**

Initial Volume: **1,667**  
 Swell factor: **1.215**  
 Loose volume: **2,025 LCY**

Source of estimated volume: **Division of Reclamation, Mining & Safety**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**

Average push distance: **70 feet**  
 Unadjusted hourly production: **1,093.7 LCY/hr**

Materials consistency description: **Hard to cut or frozen 0.7**

Average push gradient: **-30 %**  
 Average site altitude: **8,800 feet**

Material weight: **1,600 lbs/LCY**Weight description: **Top Soil**Job Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7022

Adjusted unit  
production: 768.00 LCY/hr  
Adjusted fleet  
production: 768 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.368/LCY

Total job time: 2.64 Hours  
Total job cost: \$745

## MISCELLANEOUS TRUCK WORK

Task description: Broadcast seeder

Site: Airport Corner Pit

Permit Action: 2023 update

Permit/Job#: M2007057

### PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 6/6/2023

County: Mineral

Filename: M057-002

User: TJ1

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Make and Model: Drill/Broadcast Seeder with Tractor

Horsepower: 90

Attachment 1: \_\_\_\_\_

Shift Basis: 1 per day

Attachment 2: \_\_\_\_\_

Weight: 25.00

Labor Unit 1: Flatbed Driver - 1 rear axle

(US Tons)

Labor Unit 2: \_\_\_\_\_

### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$6.25</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$7.74</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.29</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$42.28</u>	
Total Fleet Cost/Hour:	<u>\$42.28</u>	

### JOB TIME AND COST

Fleet size: 1 Truck(s)

Total job time: 8.00 Hours

Unit cost: \$42.28 /Hour

Total job cost: \$338



## BULLDOZER RIPPING WORK

Task description: Harrowing

Site: Airport Corner Pit

Permit Action: 2023 update

Permit/Job#: M2007057

### PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 6/6/2023

County: Mineral

Filename: M057-003

User: TJ1

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU

Horsepower: 310

Ripper Attachment: 1-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper Ownership Cost/Hour:	\$16.38	NA
Ripper Operating Cost/Hour:	\$8.60	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$288.76	
Total Fleet Cost/Hour:	<b>\$288.76</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 5.54 acres

Rip Depth (ft): 0.10

Volume: 894

BCY or CCY

Source of estimated quantity: \_\_\_\_\_

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>3.71</u>	feet/pass
Average Ripping Width:	<u>5.56</u>	feet/pass
Average Ripping Length:	<u>500.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.646</u>	acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.646 Acres/hr

Site Altitude: 8,800 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.54 Acres/hr

Adjusted Hourly Fleet Production: **0.54** Acres/hr

### JOB TIME AND COST

Fleet size: 1

Grader(s)

Total job time: **10.34**

Hours

Unit cost: \$538.938

Per acre

Total job cost: **\$2,986**



**REVEGETATION WORK**Task description: Seed mixSite: Airport Corner PitPermit Action: 2023 updatePermit/Job#: M2007057**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 6/6/2023County: MineralFilename: M057-004User: TJ1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.40	6.53	\$6.39
Arizona Fescue - Redondo	1.00	11.48	\$9.25
Crested Wheatgrass - Ephraim	1.00	4.59	\$4.33
Western Wheatgrass - Arriba	8.00	20.20	\$52.00
<b>Totals Seed Mix</b>	<b>10.40</b>	<b>42.80</b>	<b>\$71.97</b>

**Application**

--	--

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

**MULCHING and MISCELLANEOUS****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres:	5.54	Cost /Acre:	\$339.19
Estimated Failure Rate:	30%	Cost /Acre*:	\$339.19
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost:	<b>\$1,879.11</b>		
Reseeding Job Cost:	<b>\$563.73</b>		
Total Job Cost:	<b>\$2,443</b>		
Job Hours:	<b>0.00</b>		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilization**Site: **Airport Corner Pit**Permit Action: **2023 update**Permit/Job#: **M2007057****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **6/6/2023**County: **Mineral**Filename: **M057-005**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**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	\$124.85	\$101.82	1	\$226.67	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Subtotals:					<b>\$301.14</b>	<b>\$170.04</b>	<b>\$500.00</b>

**ROADABLE EQUIPMENT:**

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

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	ALAMOSA	
Total one-way travel distance:	68.00	miles
Average Travel Speed:	60.00	mph

Total Non-Roadable Mob/Demob Cost *	\$2,670.29
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$0.00
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.13	1.13
Return Time (Hours):	1.13	1.13
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.27	2.27

**JOB TIME AND COST**

Total job time:	6.53	Hours
-----------------	------	-------

Total job cost:	\$2,670
-----------------	---------