

COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY 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:
Memphis	M-1997-084	Aggregate	Ouray
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Wallace H. Erickson & G. Russ Means	August 29, 2012	13:30
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Horizon Ranch, LLP		110c - Construction	Limited Impact

REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program	Complete Bond	\$1,053.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Cloudy	Wallene N. El	September 5, 2012

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.

GENERAL INSPECTION TOPICS

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

(AR) RECORDS <u>Y</u>	(FN) FINANCIAL WARRANTY PB	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES NA
(PW) PROCESSING WASTE/TAILING NA	(SF) PROCESSING FACILITIES NA	(TS) TOPSOIL <u>NA</u>
(MP) GENL MINE PLAN COMPLIANCE- PB	(FW) FISH & WILDLIFE \underline{Y}	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN \underline{N}	(SB) COMPLETE INSP \underline{Y}
(ES) OVERBURDEN/DEV. WASTE NA	(SC) EROSION/SEDIMENTATION \underline{Y}	(RS) RECL PLAN/COMP Y
(AT) ACID OR TOXIC MATERIALS NA	(OD) OFF-SITE DAMAGE <u>Y</u>	(ST) STIPULATIONS NA

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

PERMIT #: M-1997-084 INSPECTOR'S INITIALS: WHE INSPECTION DATE: August 29, 2012

INSPECTION TOPIC: Financial Warranty

PROBLEM/POSSIBLE VIOLATION: Problem: The Division has reviewed the current cost of reclamation totaling \$2,361.55. Therefore, the existing financial warranty, in the amount of \$1,053, 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: Pursuant to Rule 4.2.1(2), the operator shall submit adequate financial warranty, totaling not less than \$2,361.55, within 60 days, due November 5, 2012.

CORRECTIVE ACTION DUE DATE: November 5, 2012

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION: Problem: Rule 1.13.5 states, if an Operator temporarily ceases production of the mining operation for one hundred eighty (180) days or more, the Operator must file a Notice of Temporary Cessation in writing to the Office. Information submitted by the Operator in the annual reports indicates no mining or reclamation activities have occurred for several years.

CORRECTIVE ACTIONS: The Division recommends the Operator file for Temporary Cessation. The start date of the initial 5 year Temporary Cessation period is retroactive to the last date the pit was active. If that date is more than 5 years ago, the operator is required ask the Board for a 5 year extension to the Temporary Cessation period (per rule 1.13.5 (3) and 1.13.8 (b) or begin reclamation.

CORRECTIVE ACTION DUE DATE: November 5, 2012

OBSERVATIONS

This inspection occurred as part of the Division's routine monitoring of permitted operations. Prior to the inspection the Division contact Randy Gillum and scheduled the inspection. Mr. Gillum declined to participate. This report is accompanied by an updated reclamation cost estimation totaling \$2,361.55, and 4 photos.

As shown in the photos, evidence of recent mining and reclamation activities were not observed. The site appears to have been dormant for years, with the exception of a newly posted mine identification sign. Division records do not appear to contain the Operator's notice of Temporary Cessation, as required under Rule 1.13. As noted above, the Division has identified a problem with the absent notice of Temporary Cessation and has imposed a 60-day compliance deadline, due November 5, 2012, to resolve the problem.

The Division has evaluated the current cost of reclamation totaling \$2,361.55. Please find enclosed 7 pages of summary and work sheets utilized by the Division to estimate the current cost of reclamation. Therefore, the existing \$1,053 financial warranty appears insufficient to ensure reclamation. As noted above, the Division has identified a problem with the insufficient bond and, pursuant to Rule 4.2.1(2), has imposed a 60-day compliance deadline, due November 5, 2012, to resolve the problem.

Response to this inspection report should be addressed to Wally Erickson at the Division's office in Durango, 691 County Road 233, Suite A-2, Durango, CO 81301, phone (970) 247-5469.

Inspection Contact Address

Reef Gillum Horizon Ranch, LLP P.O. Box 190 Forney, TX 75126 Enclosure:

reclamation cost estimation totaling \$2,361.55; and

4 photos.

ec w/enclosure:

Russ Means, DRMS GJFO

COST SUMMARY WORK

Task description:

Summary of tasks and associated costs

Site: Memphis

Permit Action: Routine bond update

Permit/Job#: M1997084

PROJECT IDENTIFICATION

Task #: Date:

004 9/5/2012 State:

Colorado

Abbreviation:

None

User:

WHE

Ouray County:

Filename:

M084-004

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

XCAVATE 1 EVEGE 1	_	.45	\$105.00
EVEGE 1	0	00	Φ1 07.6 C2
	. 0.	.00	\$1,076.63
MOBILIZE 1	2.	.20	\$730.11
SUBTOTA	ALS:	3.65	\$ \$1,911.74
	SUBTOTA	SUBTOTALS:	SUBTOTALS: 3.65

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: Performance bond: Job superintendent:

2.02

1.05

0.00 10.00 Total = \$38.62

Total = \$20.07

Total = \$0.00 Total = \$191.17

TOTAL O & P =\$249.86

CONTRACT AMOUNT (direct + O & P) = \$2,161.60

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs):

Reclamation management and/or administration:

Engineering work and/or contract/bid preparation:

0.00 4.25 5.00

Total = 0.00

Total = \$91.87 \$108.08

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$449.81

TOTAL BOND AMOUNT (direct + indirect) = \$2,361.55

HYDRAULIC EXCAVATOR WORK

Task description:	Highwall reduc	tion		*	
Site: Memphis	Pe	rmit Action:	Routine bond upd	ate Pern	nit/Job#: M1997084
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 001 Date: 9/5/2012 User: WHE	State: County:			Abbrev File	viation: None ename: M084-001
Agency or organ	nization name:D	RMS	1000	(Contract	
HOURLY EQUIPME	ENT COST				
Basic Machine:Attachment 1:	Cat 307D 7'-3" St ROPS Cab	ick	W	Iorsepower: eight (MT): Shift Basis: Data Source:	56 7.23 1 per day (CRG)
Cost Breakdown:		ī	Utilization %	ata source.	(CRO)
Ownership Cost/I Operating Cost/I Operator Cost/I Total Unit Cost/I	Hour: \$18 Hour: \$38	.88 .67	NA 100 NA	4	
Total Fleet Cost/	Hour:\$72	2.62			
MATERIAL QUANT Initial volume: 47 Loose volume: 47	7	_ CCY _ LCY	Swell factor	: _1.000	
	f estimated volume imated swell factor		thed drawing, "High	wall Reduction"	
HOURLY PRODUCT	TION				
Excavator Cycle Time (lo	ad bucket, swing lo	aded, dump l	bucket, swing empty	<u>):</u>	
			Condition Description		
	Secondary Job C	ondition with	nin Basic Description Cycle Time Value		E minutes
Load Bucket Capacity			Cycle Time value	0.242	minutes
				Bucket Size Clas	ss: Small
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	0.900	LCY (he Other - s LCY	aped) oil, boulders, roots (80 -100%) 0.900	0
Job Condition Correction			Site A	ltitude: 7600 fee	et
Altitude Adj: Job Efficiency: Net Correction: Unac	0.87 0.83 0.72 djusted Hourly Unit	Source (CAT HI (1 shift/da multiplier	B)	LCY/Hour	
Ad Ad	ljusted Hourly Unit justed Hourly Fleet	Production:	32.23 32.23	LCY/Hour LCY/Hour	
JOB TIME AND COS		450000			
Fleet size: 1	Excavat	or To	otal job time:	1.45	Hours
Unit cost: \$2.2	53 /LCY		Total job cost:	\$105.00	

Highwall Reduction from 0.5H:1V to 3H:1V Balanced Cut & Fill

Memphis Site M-1997-084 4/22/04 WHE

Highwall

Scale = 1"= 30'

Area 1= 6xh = 15.8 x 4 = 31.6 sq.ft.

Final Stope

Assume 40' of highwall requires reduction

Material Quantity = 31.6 8ft x 40'L

Pit Floor

= 1264 cu.ft.

= 46.8 cu.yd.

REVEGETATION WORK

Memphis	Permit A	Action: Rou	tine bond update	Permit/Job	#: <u>M1997084</u>
PROJECT IDENTIFI	CATION				
Task #: 002		olorado		Abbreviation:	None
Date: 9/5/2012		uray	***************************************	Filename:	
User: WHE	County	шау		rnename.	101084-002
Agency or organ	ization name:DRMS	{			
<u>FERTILIZING</u>					
Materials					1
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
	·			Total Fertilizer Materials Cost/Acre	\$0.00
Application					
Description					Cost /Acre
			14. T. S.		
* ***			1000		\$
		Total	Fertilizer Appli	cation Cost/Acre	\$0.00
TILLING					
					Cost /Aore
Description	2 91 13 23 0250)		***		Cost /Acre
	2 91 13.23 0250)				Cost /Acre \$1,197.90
Description	2 91 13.23 0250)	-	Total	Filling Cost/Acre	\$1,197.90
Description Hand raking (MEANS 32)	2 91 13.23 0250)		Total '	Tilling Cost/Acre	1
Description Hand raking (MEANS 32)	2 91 13.23 0250)		Rate PLS LBS	Seeds per SQ.	\$1,197.90
Description Hand raking (MEANS 32 EEDING Seed Mix			Rate PLS LBS Acre	Seeds per SQ. FT	\$1,197.90 \$1,197.90 Cost/Acre
Description Hand raking (MEANS 32 EEDING Seed Mix Mountain Brome - Broma	ar		Rate PLS LBS Acre	Seeds per SQ. FT 0 25.71	\$1,197.90 \$1,197.90 Cost /Acre
Description Hand raking (MEANS 32 EEDING Seed Mix Mountain Brome - Broma Ryegrass, Perennial - Bel	ar Iramo		Rate PLS LBS Acre 16.0	Seeds per SQ. FT 0 25.71 17.01	\$1,197.90 \$1,197.90 Cost /Acre \$53.28 \$4.05
Description Hand raking (MEANS 32 EEDING Seed Mix Mountain Brome - Broma Ryegrass, Perennial - Bel Slender Wheatgrass - Pry	ar Iramo		Rate PLS LBS Acre 16.0 3.00 4.00	Seeds per SQ. FT 0 25.71 17.01 14.60	\$1,197.90 \$1,197.90 Cost /Acre \$53.28 \$4.05 \$12.08
Description Hand raking (MEANS 32 EEDING Seed Mix Mountain Brome - Broma Ryegrass, Perennial - Bel Slender Wheatgrass - Pry Sainfoin - Eski	ar Iramo 70r		Rate PLS LBS Acre 16.0 3.00 4.00	Seeds per SQ. FT 0 25.71 17.01 14.60 0 4.36	\$1,197.90 \$1,197.90 Cost /Acre \$53.28 \$4.05 \$12.08 \$24.60
Description Hand raking (MEANS 32 SEEDING Seed Mix Mountain Brome - Broma Ryegrass, Perennial - Bel Slender Wheatgrass - Pry Sainfoin - Eski	ar Iramo 70r		Rate PLS LBS Acre 16.0 3.00 4.00	Seeds per SQ. FT 0 25.71 17.01 14.60 0 4.36	\$1,197.90 \$1,197.90 Cost /Acre \$53.28 \$4.05 \$12.08
Description Hand raking (MEANS 32 SEEDING Seed Mix Mountain Brome - Broma Ryegrass, Perennial - Bel Slender Wheatgrass - Pry	ar Iramo 70r		Rate PLS LBS Acre 16.0 3.00 4.00	Seeds per SQ. FT 0 25.71 17.01 14.60 0 4.36 15.15	\$1,197.90 \$1,197.90 Cost /Acre \$53.28 \$4.05 \$12.08 \$24.60

Description

Cost /Acre

Broadcast seeding [DMG]		\$255.76
	Total Seed Application Cost/Acre	\$255.76

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$15.90	\$15.90
Total Mulch Materials Cost/Acre				\$15.90

Application

Description		Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]		\$175.77
	Total Mulch Application Cost/Acre	\$175.77

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 0.5

Estimated Failure Rate: 25% *Selected Replanting Work Items: TILLING, SEEDING

Initial Job Cost: \$880.47 Reseeding Job Cost: \$196.16 Total Job Cost: \$1,076.63 Job Hours: 0.00

Cost /Acre: \$1,760.94

Cost /Acre*: \$1,569.27

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Haul reclamation equipment to and from job site

Site: Memphis

Permit Action: Routine bond update

Permit/Job#: M1997084

PROJECT IDENTIFICATION

Task #:

003 9/5/2012 State:

Colorado

Abbreviation:

None

Date: User:

WHE

County: Ouray

Filename:

M084-003

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:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

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 307D 7'-3" Stick	7.95	\$15.06	\$88.67	1	\$103.73	\$88.67	\$250.00

Subtotals:

\$103.73

\$88.67

\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$34.08	1	\$34.08	\$34.08

Subtotals:

\$34.08

\$34.08

** one round trip, no haul rig:

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: **OURAY** Total one-way travel distance: 1.50 miles Average Travel Speed: 30.00 mph Total Non-Roadable Mob/Demob Cost * \$726.70 "* two round trips with haul rig: Total Roadable Mob/Demob Cost ** \$3.41

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.05	0.05
Return Time (Hours):	0.05	0.05
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.10	0.10

JOB TIME AND COST

Total job time: 2.20 Hours Total job cost: **\$730.11**







