

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:
Pit 1	M-1999-073	M-1999-073 Sand	
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE: INSP. TIME:	
Monitoring	Wallace H. Erickson	January 18, 2013	14:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Evan L. Melby, Inc.	None	110c - Construction	Limited Impact
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Complete Bond	\$8,500.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	
WEATHER:	INSPECTOR'S SHONATURE:	SIGNATURE DAT	TE:
Clear	Walling & . >h	January 28, 2013	

One of the following inspection topics was 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>NA</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>NA</u>	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- \underline{Y}	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION <u>N</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(SB) COMPLETE INSP Y
(ES) OVERBURDEN/DEV. WASTE Y	(SC) EROSION/SEDIMENTATION Y	(RS) RECL PLAN/COMP <u>Y</u>
(AT) ACID OR TOXIC MATERIALS <u>Y</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	(ST) STIPULATIONS <u>NA</u>

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

INSPECTION TOPIC: Financial Warranty **PROBLEM:** The Division has reviewed the current cost of reclamation totaling \$15,504.59. Therefore, the existing \$8,500 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 Construction Materials Act. **CORRECTIVE ACTIONS:** Pursuant to Construction Materials Rule 4.2.1(2), the Operator shall submit adequate financial warranty , totaling not less than \$15,504.59, within 60 days, due March 28, 2013. **CORRECTIVE ACTION DUE DATE:** March 28, 2013

OBSERVATIONS

This inspection occurred as part of the Division's routine monitoring program for permitted operations. The permit is approved for 9.8 acres affected lands for the extraction of construction materials. Affected lands will be reclaimed to support pastureland post-mining land use. During final reclamation affected lands shall be graded to ensure no slopes are steeper than 3H:1V; topsoil shall be replaced at six to eight inch depth; and a revegetation seed mix composed of Crested wheatgrass, Yellow sweet clover, Milk vetch, and Salt bush shall be applied. The Division holds \$8,500 financial warranty. This report is accompanied by five photographs and an updated reclamation cost estimation totaling \$15,504.59.

Mining activities were dormant during the inspection. On-site equipment included one small bulldozer, two tandem axel end dump trucks and one belly dump trailer. A near vertical highwall, approximately ten feet high and 100 feet long, was located at the approximate center of affected lands. Excavation activity had created a smaller highwall, approximately six feet high at 1H:1V, along the west side of affected lands. Various stockpiles of mined materials were scattered within the permit boundary. Affected lands were estimated at five acres.

The Division last reviewed the cost of reclamation on December 26, 2006, totaling \$7,926. The cost estimation dated December 26, 2006, was based on approximately one acre affected lands. As noted above, the area affected by mining and reclamation activities has increased considerably and an updated reclamation cost estimation is warranted. The Division has reviewed the current cost of reclamation totaling \$15,504.59. Please find enclosed 12 pages of summary, drawing and task sheets utilized by the Division to estimate the current cost of reclamation. Therefore, the existing \$8,500 financial warranty appears insufficient to ensure the completion of reclamation. Pursuant to Rule 4.2.1(2), the Operator has 60 days, due March 28, 2013, to post \$7,004.59 additional financial warranty, to ensure a total financial warranty not less than \$15,504.59, or complete portions of the reclamation plan and thereby ensure the sufficiency of the existing financial warranty.

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

Inspection Contact Address

Evan L. Melby, Inc. P.O. Box 4159 Ventura, CA 93007 Attachment: Certificate of Service Enclosure: 5 photos and reclamation cost estimation totaling \$15,504.59 ec w/enclosure: Russ Means, DRMS GJFO

Certificate of Service

I, Wallace H. Erickson, hereby certify that on this 28th day of January, 2013, did place the forgoing inspection report generated from the January 18, 2013 inspection of the Evan L. Melby, Inc., Pit 1, Permit No. M-1999-073, with enclosures, in the US Mail, postage affixed and addressed to the following:

7 Walland N. E. Walland N. E. Evan Melby Evan L. Melby, Inc. P.O. Box 4159 Ventura, CA 93007



Pit 1 M-1999-073 January 18, 2013

included one small bulldozer, two tandem axel end dump trucks and one belly dump trailer. View southeast, taken nearby the west boundary of affected lands. On-site equipment







View north, taken nearby the west boundary of affected lands. Affected lands was estimated at five acres area.

COST SUMMARY WORK

Task description: ite: <u>Pit 1</u>		Summary of cost	for reclam	ation tasks Routine update	Permit/Job#:	M1999073
PROJECT	<u>IDENTIFI</u>	CATION				
m 1 //	000	State:	Colorado		Abbreviation:	None
Task #: Date:	000 1/28/2013	County:	Costilla		Filename:	M073-000

TASK LIST (DIRECT COSTS)

Task	Description	Form	Fleet	Task Hours	Cost
	Description	Used	Size		Cost
001	Highwall reduction	DOZER	1	0.17	\$34.61
002	Grade & rip, prepare for topsoil replacement	DOZER	1	12.75	\$2,647.85
003	Topsoil replacement	DOZER	1	13.09	\$2,681.81
004	Revegetate 5 acres affected lands.	REVEGE	1	0.00	\$3,074.25
005	Haul reclamation equipment to and from job site	MOBILIZE	1	7.80	\$4,558.40
006	Remove misc debris, assume 5'Hx5'Wx5'L @ \$0.50/cf	NA	1	2.00	\$62.50
		SUBTO	OTALS:	35.81	\$ \$13,059.42

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$263.80
Performance bond:	1.05	Total =	\$137.12
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$1,305.94
		TOTAL O & P =	\$1,706.86
		CONTRACT AMOUNT (direct + $O \& P$) =	\$14,766.28

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	0.00	Total = Total =	0.00
Reclamation management and/or administration:	5.00	10tui	\$738.31
CONTINGENCY:	0.00	Total =	\$0.00
		TOTAL INDIRECT COST =	\$2,445.17
TOTAL BO	OND A	MOUNT (direct + indirect) =	\$15,504.59

BULLDOZER WORK

Pit 1	Permit Action:	Routine update	Permit/Job#:	M1999073
PROJECT IDENTIFIC	CATION			
Task #: 001	State: Colorado		Abbreviation:	Niene
Date: $1/28/2013$)	-	None M072 001
User: WHE	County: Costilla		Filename:	M073-001
USEI. WHE				
Agency or organi	zation name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D8T - 8U			
Horsepower: 310				
Blade Type: Univ	ersal			
Attachment: 3-sha	ank ripper			
Shift Basis: 1 per				
Data Source: (CRO				
Cost Breakdown:				
COSt DICARGO WII.		Utilization %		
Ownership Cost/Hour:	\$63.00	NA		
Operating Cost/Hour:	\$104.06	100		
Ripper op. Cost/Hour:	\$1.63	25		
Operator Cost/Hour:	\$37.41	NA		
	Ψυτιτι	INA		
Γotal unit Cost/Hour:	\$206.11			
Fotal Fleet Cost/Hour:	\$206.11			
MATERIAL QUANTI	TIES			
X 1/1 X 1 110				
Initial Volume: 119				
Swell factor: 1.000	01/			
Loose volume: 119 Lo	CY			
Source of estimated volume	e: See attached drawing	g, "Highwall Reduction "		
Source of estimated swell f		, 0		
HOURLY PRODUCTI	ON			
Average push distance:	50 feet			
Unadjusted hourly production	ion: 1,627.0 LCY/hr			
		1 1		
Materials consistency descr	ription: Compacted fill or	emoankment 0.9		
Average push gradient:	-5 %			
Average site altitude:	8,600 feet			
	0,000 1001			
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rocl	k, 75% Earth		
ob Condition Correction F		Source		
Operator SL	rill. 0.750	(AVG)		
Operator Sk Material consisten		(AVG.)		
Material consisten	cy: 0.900	(CAT HB))		
	cy: 0.900			

Task # 001

ty: 1.000	(AVG.)
cy: 0.830	(1 SHIFT/DAY)
ile: 0.800	(FND-RF)
nt: 1.115	(CAT HB)
de: 1.000	(CAT HB)
ht: 0.868	(CAT HB)
pe: 1.000	(PAT)
705.79 LCY/hr	
	cy: 0.830 ile: 0.800 ent: 1.115 de: 1.000 ght: 0.868 pe: 1.000 on: 0.4338

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.292/LCY	

Total job time:	0.17 Hours	
Total job cost:	\$34.61	



BULLDOZER WORK

Task description:	or and or mp, prop	are for top	psoil replacement		
: Pit 1	Perm	it Action:	Routine update	Permit/Job#:	M1999073
PROJECT IDENTI	FICATION				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: 1/28/2013	County:	Costilla		Filename:	M073-002
User: WHE	· _				
Agency or org	anization name:	MS			
HOURLY EQUIPM	<u>ENT COST</u>				
Basic Machine: Ca	at D8T - 8U				
Horsepower: 31					
1	niversal				
	shank ripper				
	per day				
	CRG)				
	((0))				
Cost Breakdown:		1	Utilization %		
Ownership Cost/Hour:	\$63.00		NA		
Operating Cost/Hour:		-	100		
Ripper op. Cost/Hour:			50		
Operator Cost/Hour:					
Operator Cost/Hour.	557.41		NA		
Total unit Cost/Hour:	\$207.75				
Total Fleet Cost/Hour:	\$207.75				
MATERIAL QUAN	ITTIES				
Initial Volume: 8,0	67				
Swell factor: 1.0	00				
Loose volume: 8,0	67 LCY				
Courses of estimated web	(500)(1256	-	$() / 27 - 0.066.67 \dots$		
Source of estimated volu Source of estimated swe		USI/ac)(1 D			
	Il footor: NA		2) / 27 = 8,066.67 cy		
Source of continuity Swe	ll factor: NA		$\frac{1}{2} = 8,000.07 \text{ cy}$		
HOURLY PRODUC) / 2 / = 8,000.0 / cy		
HOURLY PRODUC	TION)/2/=8,000.0/cy		
HOURLY PRODUC	TION 50 feet)/2/= 8,000.0/ cy		
HOURLY PRODUC	TION 50 feet) / 2 / = 8,000.0 / cy		
HOURLY PRODUC	50 feet action: 1,627.0 LCY	/hr	mbankment 0.9		
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de	TION 50 feet action: 1,627.0 LCY escription: Compact	/hr			
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	TION 50 feet action: 1,627.0 LCY escription: Compact 0 %	/hr			
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de	TION 50 feet action: 1,627.0 LCY escription: Compact	/hr			
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	TION 50 feet action: 1,627.0 LCY escription: Compact 0 %	/hr			
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	50 feet action: 50 feet action: 1,627.0 LCY escription: Compact 0 % 8,600 feet	/hr ted fill or er	mbankment 0.9		
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight:	TION 50 feet action: 1,627.0 LCY escription: Compact 0 % 8,600 feet 2,650 lbs/LCY Decomposed rock -	/hr ted fill or er	mbankment 0.9		
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description:	TION 50 feet action: 1,627.0 LCY, escription: Compact 0 % 8,600 feet 2,650 lbs/LCY Decomposed rock - n Factor	/hr ted fill or en 25% Rock,	mbankment 0.9		
HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	50 feet action: 50 feet action: 1,627.0 LCY escription: Compact 0 % 8,600 feet 2,650 lbs/LCY Decomposed rock - n Factor 0,72 Skill: 0,72 0.72 0,90	/hr ted fill or en 	mbankment 0.9 . 75% Earth Source		

Visibili	ty: 1.00	0	(AVG.)
Job efficien	-	0	(1 SHIFT/DAY)
Spoil pi	ile: 0.80	0	(FND-RF)
Push gradie	nt: 1.00	0	(CAT HB)
Altitu	de: 1.00	0	(CAT HB)
Material Weig	ht: 0.86	8	(CAT HB)
Blade ty	pe: 1.00	0	(PAT)
Net correction	on: 0.3890		
Adjusted unit production:	632.90 LCY/hr		
Adjusted fleet production:	632.9 LCY/hr		

1 Dozer(s)	Fleet size:
\$0.328/LCY	Unit cost:
 \$0.328/LCY	Unit cost:

Total job time:	12.75 Hours	
Total job cost:	\$2,647.85	

BULLDOZER WORK

Task description:	Topsoil replacement			
: Pit 1	Permit Action:	Routine update	Permit/Job#:	M1999073
PROJECT IDENTIFI	CATION			
Task #: 003	State: Colorado		Abbreviation:	None
Date: $\frac{1}{28/2013}$	County: Costilla		Filename:	M073-003
User: WHE			- inclution	11075-005
1919-1919-1919-1919-1919-1919-1919-191				
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine: Cat	D8T - 8U			
Horsepower: 310				
	versal			
Attachment: 3-sh	ank ripper			
	er day			
Data Source: (CR				
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$63.00	NA		
Operating Cost/Hour:	\$104.06	100		
Ripper op. Cost/Hour:	\$0.33	5		
Operator Cost/Hour:	\$37.41	NA		
-		IIA		
Total unit Cost/Hour:	\$204.81			
Total Fleet Cost/Hour:	\$204.81			
	(TTTT) O			
MATERIAL QUANT	THES			
Initial Volume: 4,033				
Swell factor: 1.000)			
Loose volume: 4,033	LCY			
Course of optimate days have	(5)(425(0-5))(0.5	VD) (27 4 022 22		
Source of estimated volum Source of estimated swell		'D) / $27 = 4,033.33$ cy		
Source of estimated swell	Tactor: NA			
HOUDIN NODOLICT	TON			
HOURLY PRODUCT	ION			
Average push distance:	150 feet			
Unadjusted hourly product		<u>10 - 40 - 5 - 5</u> 10		
5 51				
Materials consistency desc	cription: Consolidated stock	pile 1.0		
Average push gradient:	0 %			
Average site altitude:	8,600 feet			
Average site annuale:	0,000 1001			
Material weight:	2,550 lbs/LCY			
Weight description:	Earth - Dry packed			
Job Condition Correction		Source		
Operator S		(AVG.)		
Material consister		(CAT HB)		
Dozing met				
Dozing met	1.000	(GEN.)		

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.000	(CAT HB)
1.000	(CAT HB)
0.902	(CAT HB)
1.000	(PAT)
0.4492	
08.02 LCY/hr	
08.02 LCY/hr	
	0.830 0.800 1.000 0.902 1.000 0.4492 08.02 LCY/hr

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.665/LCY	
01111 0001.	\$0.000/LO1	

Total job time:	13.09 Hours
Total job cost:	\$2,681.81

REVEGETATION WORK

Pit 1		Action: <u>Rou</u>				: <u>M1999073</u>
PROJECT IDENTIFICATIO	State: C	olorado			Abbreviation:	None
Date: <u>1/28/2013</u> User: WHE	County: _C	ostilla			Filename:	M073-004
Agency or organization	name: DRMS					
FERTILIZING						
Aaterials						
Description		Units / Acre	Unit	Co	st / Unit	Cost /Acre
				\$		\$
				То	tal Fertilizer Materials Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		Total	Fertilizer A	pplicatio	on Cost/Acre	\$0.00
TILLING						
Description						Cost /Acre
Disc harrowing, 6" deep (MEAN	IS 32 91 13.23 6	(100)				\$98.01
			То	tal Tillir	g Cost/Acre	\$98.01
EEDING						
Seed Mix			נ נ	Rate – PLS LBS /	Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Ephraim				Acre 3.00	36.73	\$17.84
Yellow Sweet Clover - Madrid				.00	5.97	\$2.55

Milk Vetch, Cicer - Lutana

Broadcast seeding [DMG]

Application

Description

Saltbush, Four Wing - Dewinged

\$35.56

\$76.64

\$132.59

Cost /Acre

\$261.28

7.00

4.00

20.00

Totals Seed Mix

23.30

6.43

72.43

Total Seed Application Cost/Acre

\$261.28

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/Acre	\$0.00

NURSERY STOCK PLANTING

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

	No. of Acres: ed Failure Rate: ng Work Items:	Cost /Acre: Cost /Acre*:	-	
Initial Job Cost: Reseeding Job Cost:				
Total Job Cost: Job Hours:				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descrip	otion: Ha	ul reclamation e	quipment to	and from job	site			
e: <u>Pit 1</u>		Permit	Action: _R	outine update	Perm	it/Job#:	M199	99073
PROJECT	IDENTIFICAT	TION						
Task #:	005	State: C	Colorado		Abbrevi	ation:	None	
Date: User:	1/28/2013 WHE	County: C	Costilla		the second se	name:	M073-	005
Age	ency or organizatio	on name: DRM	S					
EQUIPME	NT TRANSPO	RT RIG COST						
					Shift basis	:1	per day	7
)	Cost Data Source:	:C	RG Dat	a
	Truck Tractor Des	cription: GEN	ERIC ON-	HIGHWAY TRU	JCK TRACTOR,	6X4, D	IESEL	POWERED,
					(2ND HALF, 200			
	Truck Trailer Des	cription: GEN	ERIC FOLE		ECK, DROP DEC 50T, AND 100T		JIPMEN	T TRAILER
				(251,	301, AND 1001)		11- 0-41-11
Cost Breakdo	own:							
Available Ri	g Capacities	0-25 Tons	26-50 T	ons 51+	Tons			
Owne	rship Cost/Hour:	\$16.63	\$18.3	7 \$2	2.33			
Oper	ating Cost/Hour:	\$44.38	\$46.1	3 \$5	0.07			
Ope	erator Cost/Hour:	\$27.66	\$27.6	6 \$2	7.66			
Н	elper Cost/Hour:	\$0.00	\$25.3		5.39			
Total	Unit Cost/Hour:	\$88.67	\$117.:		25.45			
NON ROA	DABLE EQUIP	MENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip R	eturn T	rin	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/u		Cost/hr/ C	Cost/hr/	fleet	Cost/ fleet
	(TONS)			Sile	fleet		1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	

53.70	\$63.00	\$125.45	1	\$188.45	\$125.45	\$250.00
25 00				φ. 00. 15	ψ14J.4J	3230.00
25.00	\$39.59	\$88.67	2	\$256.51	\$177.34	\$500.00
			Subtotals:	\$444.96	\$302.79	\$750.00
			23.00 339.39 \$60.07			

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:	ALAMOSA	
Total one-way travel distance:	58.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,558.40	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.45	1.45
Return Time (Hours):	1.45	1.45
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.90	2.90

JOB TIME AND COST

Total job time: 7.80 Hours

Total job cost: \$4,558.40