

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:
Mulletts Excavating Pit # 1	M-2000-115	Sand and gravel	Las Animas
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Surety-Related Inspection	Tyler V. O'Donnell	January 27, 2014	16:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:	
Mullett Excavating, LLC	N/A	112c - Construction	Regular Operation

REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Surety Related	Complete Bond	\$47,003.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
N/A	None	None
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Clear	Eyler O'Dormell	February 3, 2014

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: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION: Problem: Failure to follow approved mine plan the Operator has disturbed 8.6 acres, 1.1 acres more than the maximum allowed disturbance of 7.5 acres.

CORRECTIVE ACTIONS: The Operator shall submit a Technical Revision pursuant to C.R.S. 34-32.5-112 (1)(c)(VI), with the required \$216 revision fee, to update and clarify the current approved mine plan, reclamation plan and associated maps to reflect existing and proposed activities by March 5, 2014.

CORRECTIVE ACTION DUE DATE: 3/5/2014

OBSERVATIONS

This inspection was conducted in response to a Notice Temporary Cessation (TC-01) that the Division of Reclamation, Mining and Safety (Division/DRMS) received on January 7, 2014. The inspection was conducted by Tyler O'Donnell of the Division. No representative from Mullett Excavating, LLC, the Operator, was present during the inspection. The Division properly notified the Operator of the inspection. The Mulletts Excavating Pit # 1 is located approximately 5.5 miles west of Tyrone, Colorado. The Mulletts Excavating Pit # 1 is a 34.98 acre site permitted for the extraction of construction materials primarily sand and gravel. The Mulletts Excavating Pit # 1 has an approved affected area of 13 acres with a maximum allowed disturbance of 7.5 acres. The approved post-mining land use is rangeland.

The sky was clear. The ground was dry. The site is currently inactive, no mining equipment was observed during the inspection. The Division sent out public notices regarding the Notice of Temporary Cessation to the Operator, and Las Animas County January 9, 2014 as required by Construction Materials Rule 1.13.6. To date the Division has not received any written comments or objections to the Notice of Temporary Cessation. The site conditions observed during the Division's inspection support the decision to approve TC-01, once the Operator has complied with the corrective action citied below.

Backfilling and Grading:

The pit walls are near vertical. The pit is approximately 180 feet wide, 420 feet long and 10-20 feet deep. No backfilling or grading has occurred.

Financial Warranty:

The reclamation cost estimate for this pit was updated with this inspection (see the attached financial warranty cost estimate). It was found that the current financial warranty amount of \$47,003.00 is adequate to cover the cost of reclamation.

Hydrologic Balance:

The bottom of the pit was dry. There appeared to be no significant impacts to the prevailing hydrologic balance.

Gen. Compliance With Mine Plan:

The Operator indicated in the last annual report submitted on January 7, 2014, that the 9.5 acres are currently affected by mining and incomplete and or unreleased reclamation. During the inspection, the disturbed area was measured with a hand held GPS unit and was found to be approximately 8.6 acres (see figure #1). The Operator committed to disturbing no more than 7.5 acres at one time. This will be cited as a problem and will require a corrective action.

All mining activity appeared to be within the approved permit boundaries.

Roads:

The access road was in good condition.

Recl plan/comp:

Exhibit L submitted with Amendment AM-01 indicates 2 feet of overburden will be replaced during final reclamation. It appears that there is not enough overburden stockpiled to accomplish this task. The Operator is advised to clarify how much overburden will be replaced in the technical revision that is required for the problem cited in the inspection report.

This site has not yet been reclaimed, nor has reclamation commenced in any phase of the mining operation.

Revegetation:

There was some plant growth on the stockpiles and very little vegetation growth elsewhere in the disturbed area. The growth in the disturbed area appeared to be volunteer vegetation, comprised of grasses and annual weeds.

Erosion/Sedimentation:

There was no evidence of excessive erosion (rills, gullies, or sediment fans).

Signs and Markers:

A mine I.D. sign was located at the entrance to the mine site. The permit boundary was clearly marked by t-posts.

Topsoil:

There was topsoil stockpiled along the tops of the pit walls and in the southwest corner of the affected land. There appeared to be adequate topsoil to reclaim the disturbed area.

Mulletts Excavating Pit # 1



Figure 1: Affected area boundary (marked by the red lines on this 2011 NAIP image) encloses approximately 8.6 acres.

PHOTOGRAPHS



Photo 1: View looking southwest, topsoil stockpile circled in red.



Photo 2: View looking north, highwall in the background.



Photo 3: Topsoil stockpile circled in red, product stockpile circled in blue.



Photo 4: Permit sign.

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 Y	(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>NA</u>	(SF) PROCESSING FACILITIES <u>NA</u>	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>PB</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION Y
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN Y	(SB) COMPLETE INSP Y
(ES) OVERBURDEN/DEV. WASTE <u>NA</u>	(SC) EROSION/SEDIMENTATION Y	(RS) RECL PLAN/COMP Y
(AT) ACID OR TOXIC MATERIALS Y	(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 Contact Address Myron Mullett Mullett Excavating, LLC P .O. Box 322 Westcliffe, CO 81252

Enclosure: Financial warranty Calculation

CC: Tom Kaldenbach, DRMS

COST SUMMARY WORK

Task de	scription: Reclaim Mulletts Excavating Pit # 1				
Site:	Mulletts Excavating Pit # 1	Permit Action:	TC Inspect 2014		Job#: <u>M2000115</u>
<u>P</u>	ROJECT IDENTIFICATION				
	Task #:500State:ColoradDate:1/30/2014County:Las AniUser:TOD			Abbreviation: Filename:	None M115-500
	Agency or organization name: DRMS				
т	ASK LIST (DIRECT COSTS)				
<u> </u>	ASK LIST (DIRECT COSTS)	.			
Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade slopes to 3H:1V	DOZER	1	36.82	\$7,769.60
002	Replace 6 inches of topsoil 9 acres	DOZER	1	21.92	\$4,624.51
003	Revegetation of 9 Acres	REVEGE	1	36.00	\$6,040.62
004	Spreading overburden over 9 acres	LOADER	1	81.18	\$12,459.00
005	Mobilization and demobilization of equipment	MOBILIZE	1	3.15	\$2,987.51
		<u>SUB'</u>	<u>TOTALS:</u>	179.07	\$33,881.24
Ī	NDIRECT COSTS			· I	

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$684.40
Performance bond:	1.05%	Total =	\$355.75
Job superintendent:	89.53 hrs	Total =	\$5,856.16
Profit:	10.00%	Total =	\$3,388.12
		TOTAL O & P =	\$10,284.43
		CONTRACT AMOUNT (direct + $O \& P$) =	\$44,165.67

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 0.00% 5.00%	Total = Total =	0.00 \$0.00 \$2,208.28				
CONTINGENCY:	0.00	Total =	\$0.00				
	TOTAL I	NDIRECT COST =	\$12,492.71				
TOTAL B	TOTAL BOND AMOUNT (direct + indirect) =						

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BULLDOZER WORK

Task description:	Grade slopes to 3	3H:1V			
Mulletts Excavating	Pit # 1 Peri	mit Action:	TC Inspection 2014	Permit/Job#:	M2000115
PROJECT IDENTIF	ICATION				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: $\frac{1}{30/2014}$	County:	Las Animas		Filename:	M115-001
User: TOD	County.		,	i nonumo.	11115 001
Agency or orga	nization name: DR	RMS			
HOURLY EQUIPMI	ENT COST				
Basic Machine: Ca	t D8T - 8U				
Horsepower: 310)		_		
	iversal		_		
VI	hank ripper		_		
	er day		_		
	RG)		_		
			_		
Cost Breakdown:		1	TT-11 0/		
	¢ (2 , 0, 0)		<u>Utilization %</u>		
Ownership Cost/Hour:	\$63.00		NA		
Operating Cost/Hour:	\$104.06)	100		
	\$6.53		100		
Ripper op. Cost/Hour:					
	\$37.41		NA		
Ripper op. Cost/Hour: Operator Cost/Hour:	· · · · · · · · · · · · · · · · · · ·		NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour:	\$211.01		NA		
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0.830	(1 SHIFT/DAY) (FND-RF)
0.800	(FND-RF)
1.225	(CAT HB)
1.000	(CAT HB)
0.885	(CAT HB)
1.000	(PAT)
	1.000 0.885

Adjusted unit production:	362.11 LCY/hr
Adjusted fleet production:	362.11 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.583/LCY

Total job time:	36.82 Hours
Total job cost:	\$7,769.60

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BULLDOZER WORK

Muletis Excavating Pit #1 Permit Action: TC Inspection 2014 Permit/Job#: M2000115 PROJECT IDENTIFICATION Task #: 002 State: Colorado Abbreviation: None Dut: 1/30/2014 County: Las Animas Pilename: M115-002 User: TOD	Task descriptio	n:	Replace	e 6 inches	of topsoil 9	acres		
Task #: 002 State: Colorado Abbreviation: None Date: 1/30/2014 County: Las Animas Filename: M115-002 Agency or organization name: DRMS HOURLY EOUIPMENT COST Basic Machine: Cat D87 - 8U Horsepower: 310 Blade Type: Universal Attachment: 3-shink ripper Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$65.3 Operating Cost/Hour: \$37.41 NA NA Operating Cost/Hour: \$211.01 Total Pice Cost/Hour: \$211.01 Total Fleet Cost/Hour: \$211.01 MATERIAL OUANTITIES Initial Volume: Initial Volume: 7.260 Source of estimated volume: Exhibit L for 9 acres Source of estimated volume: Isthibit L for 9 acres Source of estimated volume: Isthibit L for 9 acres Source of estimated volume: Isthibit L for 9 acres Source of estimated volume:	Mulletts Exc	cavating P	rit # 1	Perr	nit Action:	TC Inspection 2014	Permit/Job#:	M2000115
Date: 1/30/2014 County: Las Animas Filename: M115-002 Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat D87 - 8U Horsepower: 310 Harde Type: Universal Attachment: 3-shank ripper Shift Basis: Iper day Data Source: (CRG) Ownership Cost/Hour: \$65.3 100 Ripper op. Cost/Hour: \$65.3 100 Operating Cost/Hour: \$56.53 100 Operating Cost/Hour: \$211.01 NA Total anit Cost/Hour: \$211.01 NA Total anit Cost/Hour: \$211.01 NA Total anit Cost/Hour: \$211.01 NA Source of estimated volume: \$2260 Swell factor: Cat Handbook MATERIAL OUANTITIES Initial Volume: T.260 LCY Source of estimated volume: T.260 LCY Source of estimated volume: T.260 LCY Source of estimated volume: Attachment Source Materials consistency description: Loose stockpile 1.2 Average site altitude: 5.700 feet	PROJECT II	DENTIFI	CATION	N				
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Horsepower: 310 Blade Type: Universal Attachment: 3-shank ripper Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: (CRG) Ownership Cost/Hour: \$63.00 NA Operating Cost/Hour: \$104.06 100 Ripper op. Cost/Hour: \$6.53 100 Operator Cost/Hour: \$211.01 NA Total unit Cost/Hour: \$211.01 NA Total via Cost/Hour: \$211.01 NA MATERIAL QUANTITIES Surce of estimated volume: Exhibit L for 9 acres Source of estimated volume: Cat Handbook Materials consistency description: Materials consistency description: 1.000 feet	HOURLY E	QUIPME	NT COS	T				
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Operating Cost/Hour: \$104.06 100 Ripper op. Cost/Hour: \$6.53 100 Operator Cost/Hour: \$37.41 NA Total unit Cost/Hour: \$211.01 NA Total Unit Cost/Hour: \$211.01 NA MATERIAL QUANTITIES Initial Volume: 7.260 Swell factor: 7.260 Initial Volume: 7.260 LCY Source of estimated volume: Exhibit L for 9 acres Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 300 feet 300 feet Unadjusted hourly production: I.oose stockpile 1.2 Average site altitude: $5,700$ feet Material weight: 1,600 lbs/LCY Material weight: $1,600$ lbs/LCY Weight description: Top Soil Source Source Operator Skill: 0.750 (AVG.) Material consistency:				¢ (2,00				
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Total unit Cost/Hour: \$211.01 Total Fleet Cost/Hour: \$211.01 MATERIAL QUANTITIES Initial Volume: 7,260 Swell factor: 1.000 Loose volume: 7,260 LCY Source of estimated volume: Exhibit L for 9 acres Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 300 feet Unadjusted hourly production: 314.3 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: -5 % Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200								
Matterial veight: $\frac{5211.01}{1.000}$ Initial Volume: 7.260 Swell factor: 1.000 Loose volume: 7.260 LCY Source of estimated volume: Exhibit L for 9 acres Source of estimated volume: Exhibit L for 9 acres Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 300 feet Unadjusted hourly production: 314.3 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: -5% Average site altitude: $5,700$ feet Material weight: $1,600$ lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200	Operator Co	ost/Hour:		\$37.41		NA		
Source of estimated volume: Exhibit L for 9 acres Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 300 feet Unadjusted hourly production: 314.3 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: -5 % Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200	Initial Volum Swell facto	e: 7,260 or: 1.000)					
Source of estimated swell factor: Cat Handbook HOURLY PRODUCTION Average push distance: 300 feet Unadjusted hourly production: 314.3 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: -5 % Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200								
Average push distance: 300 feet Unadjusted hourly production: 314.3 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: -5 % Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200								
Unadjusted hourly production: 314.3 LCY/hr Materials consistency description: Loose stockpile 1.2 Average push gradient: -5 % Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200								
Average push gradient: -5 % Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200	01				hr			
Average site altitude: 5,700 feet Material weight: 1,600 lbs/LCY Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200	Materials consi	stency des	cription:	Loose s	tockpile 1.2			
Weight description: Top Soil Job Condition Correction Factor Source Operator Skill: 0.750 Material consistency: 1.200				et				
Job Condition Correction FactorSourceOperator Skill:0.750(AVG.)Material consistency:1.200(CAT HB)	Material weight	t:	1,600 lb	s/LCY				
Operator Skill:0.750(AVG.)Material consistency:1.200(CAT HB)	Weight descript	tion:	Top Soil	l				
Operator Skill:0.750(AVG.)Material consistency:1.200(CAT HB)	Job Condition (Correction	Factor_			Source		
		Operator S	Skill:			(AVG.)		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	331.27 LCY/hr
Adjusted fleet production:	331.27 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.637/LCY

Total job time:	21.92 Hours
Total job cost:	\$4,624.51

REVEGETATION WORK

e:	Mulletts	Excavting Pit	#1 Per	mit Action:	TC Inspection 2014	Permit/Job#:	M2000115
Ī	PROJECT	<u>IDENTIFIC</u>	CATION				
	Teels #	003	State:	Colorado		Abbreviation:	None
	Task #:	005					
	Date:	1/30/2014	County:	Las Anim	as	Filename:	M115-003

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cost/Acr	e \$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.90	14.69	\$9.77
Little Bluestem - Pastura	1.05	6.27	\$16.60
Sideoats Grama - Vaughn	0.25	0.82	\$2.81
Yellow Sweet Clover - Madrid	0.35	2.09	\$0.89
Galleta	0.60	2.19	\$15.12
Western Wheatgrass - Arriba	3.20	8.08	\$11.78
Winter Fat	0.50	1.27	\$16.35
Totals Seed Mix	6.85	35.41	\$73.32

Application

Description		Cost /Acre
Drill seeding (DRMS Cost Data)		\$88.20
	Total Seed Application Cost/Acre	\$88.20

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$265.00	\$265.00
Total Mulch Materials Cost/Acre				\$265.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

Job Hours: 36.00

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: Estimated Failure Rate: *Selected Replanting Work Items:	50%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: \$5,313.78 Reseeding Job Cost: \$726.84 Total Job Cost: \$6,040.62			

WHEEL LOADER - LOAD AND CARRY WORK

	1 Permit Actio	on: TC Inspection 2014	Permit/Job#	: M2000115
PROJECT IDENTIFIC	ATION			
Task #: 004	State: Colora	ada	Abbreviation:	None
Date: $\frac{1}{30/2014}$	County: Las Ai		Filename:	M115-004
User: TOD	County		Thename.	
Agency or organiz	ation name: DRMS			
HOURLY EQUIPMEN	<u>T COST</u>			
Basic Machine: C.	AT 980H	Horse	power:	315
	OPS Cab			per day
		Data S	Source: ((CRG)
Cost Breakdown:				
2051 DICARGOWII.		Utilization %		
Ownership Cost/Hor	ur: \$43.47	NA		
Operating Cost/Hou		100		
Operator Cost/Hor	ur: \$35.82	NA		
Total Unit Cost/Hor	ur: \$153.47			
Total Fleet Cost/Ho	our: \$153.47			
MATERIAL QUANTII	IES			
			1.000	
Initial volume: 29.0	40 CCY	Swell factor		
Initial volume:29,0 Loose volume:				
Loose volume:	29,040 LCY			
Loose volume:	29,040 LCY estimated volume: Sprea	ad 2 feet of overburden over		
Loose volume:	29,040 LCY estimated volume: Sprea			
Loose volume: Source of e Source of estim	29,040LCYestimated volume:Spreanated swell factor:Cat F	ad 2 feet of overburden over		
Loose volume: Source of e Source of estim	29,040LCYestimated volume:Spreanated swell factor:Cat F	ad 2 feet of overburden over		
Loose volume: Source of e Source of estim	29,040LCYestimated volume:Spreanated swell factor:Cat HON	ad 2 feet of overburden over	9 acres	minutes
Loose volume: Source of e Source of estim HOURLY PRODUCTIO	29,040LCYestimated volume:Spreanated swell factor:Cat HON	ad 2 feet of overburden over Handbook	9 acres	1
Loose volume: Source of e Source of estim	29,040LCYestimated volume:Spreanated swell factor:Cat HON	ad 2 feet of overburden over Handbook ime (load, dump, maneuver)	9 acres	minutes Source (Cat HB)
Loose volume: Source of e Source of estim HOURLY PRODUCTIO	29,040 LCY estimated volume: Spreading nated swell factor: Cat H ON Unadjusted Basic Cycle Time Bank or broken materia	ad 2 feet of overburden over Handbook ime (load, dump, maneuver)	9 acres : <u>0.550</u> Factor (min.)	Source (Cat HB)
Loose volume: Source of estim HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material:	29,040LCYestimated volume:Spreanated swell factor:Cat HONUnadjusted Basic Cycle TiBank or broken materiaConveyor or dozer piled	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 10.04	9 acres : 0.550 Factor (min.) 0.040	Source (Cat HB)
Loose volume: Source of estim HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile:	29,040LCYestimated volume:Spreadnated swell factor:Cat HONUnadjusted Basic Cycle TiteBank or broken materiaConveyor or dozer pilectCommon ownership ofConstant operation -0.0	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4	9 acres : 0.550 Factor (min.) 0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB)
Loose volume: Source of estim HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	29,040LCYestimated volume:Spreamated swell factor:Cat HONUnadjusted Basic Cycle TiBank or broken materiaConveyor or dozer piledCommon ownership ofConstant operation -0.0No adjustment - factor r	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4 not applicable 0.00	9 acres 9 acres 5 0.550 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Loose volume: Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	29,040 LCY estimated volume: Spreating mated swell factor: Cat H ON Unadjusted Basic Cycle Triple Bank or broken materia Conveyor or dozer pile Common ownership of Constant operation -0.0 No adjustment - factor r Net	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4 not applicable 0.00 Cycle Time Adjustment:	9 acres 9 acres 50 50 50 50 50 50 50 50 50 50	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	29,040 LCY estimated volume: Spreating mated swell factor: Cat H ON Unadjusted Basic Cycle Triple Bank or broken materia Conveyor or dozer pile Common ownership of Constant operation -0.0 No adjustment - factor r Net	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4 not applicable 0.00	9 acres 9 acres 5 0.550 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000	(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)
Loose volume: Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	29,040 LCY estimated volume: Spreating mated swell factor: Cat H ON Unadjusted Basic Cycle Triple Bank or broken materia Conveyor or dozer pilect Common ownership of Constant operation -0.0.0 No adjustment - factor restant Net	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4 not applicable 0.00 Cycle Time Adjustment:	9 acres 9 acres 50 50 50 50 50 50 50 50 50 50	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of estim HOURLY PRODUCTIO Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Rolling Resistance – Road C	29,040 LCY estimated volume: Spreader nated swell factor: Cat H ON DN Unadjusted Basic Cycle Triple Description Bank or broken materia Conveyor or dozer pile Common ownership of Constant operation -0.00 No adjustment - factor n Net Ad Conditions	ad 2 feet of overburden over Iandbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4 not applicable 0.00 Cycle Time Adjustment: justed Basic Cycle Time:	9 acres 9 acres 5 0.550 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.000 -0.040 0.510	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of estim HOURLY PRODUCTIC Loader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	29,040 LCY estimated volume: Spread nated swell factor: Cat H DN DN Unadjusted Basic Cycle Triple D Bank or broken materia Conveyor or dozer pilect Common ownership of Constant operation -0.0 No adjustment - factor n Net Ad Conditions Firm, smooth, rolling, dirt	ad 2 feet of overburden over Handbook ime (load, dump, maneuver) 1 0.04 d 10 ft. high and up 0.00 trucks and loaders -0.04 4 not applicable 0.00 Cycle Time Adjustment:	9 acres 9 a	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	425	0.00	3.00	3.00	0.3286	(Cat HB)
Return Route:	425	0.00	3.00	3.00	0.3099	(Cat HB)

		ne: 0.6385	minutes		
			Total Cycle Ti	me: 1.1485	minutes
Load Bucket Capacity					
Rated Capac	ity: 7.50	LCY (hea	ped)		
Bucket Fill Fac	tor: 1.100	Other - ro	ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capac	eity: 8.25	LCY			
Job Condition Correcti Site Altitude: <u>5700</u> fee					
		Source			
Altitude Adj:	1.00	(CAT HB)		
Job Efficiency:	0.83	(1 shift/day	y)		
Net Correction:	0.83	multiplier			
U	Inadjusted Hourly Unit Adjusted Hourly Unit		430.99	LCY/Hour LCY/Hour	
	Adjusted Hourly Fleet		357.72	LCY/Hour	
JOB TIME AND C	<u>OST</u>				
Fleet size:	1 Loader(s)		Total job time:	81.18	Hours

	Unit cost:	\$0.429	/LCY	Total job cost:	\$12,459.00
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EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: <u>Mo</u>	bilization and der	nobilization of	f equipmen	t			
: Mulletts Exca	avting Pit # 1	Permit A	Action: <u>TC Ir</u>	spection 20	14 Pe	rmit/Job#:	M200	0115
PROJECT ID	ENTIFICAT	ION						
Task #: 00	5	State: Co	olorado		Abbr	eviation:	None	
	30/2014 DD	County: La	s Animas		F	ilename:	M115-	005
Agency	y or organization	n name: DRMS						
EQUIPMEN	IKANSPUR	AT RIG COST						
					Shift ba	nsis: 1	l per day	τ
					Cost Data Sou	rce: C	RG Data	a
Tm	ck Tractor Desc	rintion: CENI	ERIC ON-HIG				NECEI I	DOWEDED
110	CK Tractor Desc	inpuoli. GENI	EKIC UN-HIG		(2ND HALF,		JESEL I	FUWERED,
Tm	ick Trailer Desc	ription: GENE	RIC FOLDIN		· · · · · · · · · · · · · · · · · · ·	,	IIDMEN	ΤΤΡΛΠΕΡ
110	ick Hallel Desc		KIC FOLDING		50T, AND 10	-		I INAILER
				(251	, 501, 7110 10	,01)		
Cost Breakdown	<u>.:</u>							
Available Rig C	Capacities	0-25 Tons	26-50 Tons	51-	+ Tons			
	ip Cost/Hour:	\$16.63	\$18.37	\$	22.33			
Operatir	ng Cost/Hour:	\$44.38	\$46.13	\$	50.07			
Operat	or Cost/Hour:	\$27.66	\$27.66	\$	27.66			
Help	er Cost/Hour:	\$0.00	\$25.39	\$	25.39			
	nit Cost/Hour:	\$88.67	\$117.55	\$1	25.45			
NON ROADA	BLE EQUIP	MENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return 7	Гrip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/	fleet	Cost/ fleet
1	(TONS)				fleet			

Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)		Cost III/ dilit	DILC	fleet		
CAT 980H	33.12	\$43.47	\$117.55	1	\$161.02	\$117.55	\$500.00
Cat D8T - 8U	53.70	\$63.00	\$125.45	1	\$188.45	\$125.45	\$500.00
					-		

Subtotals: \$349.47 \$243.00 \$1,000.00

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:	TRINIDAD 35.00 65.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,987.51	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.54	0.54
Return Time (Hours):	0.54	0.54
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.58	1.08

JOB TIME AND COST

Total job time: 3.15 Hours

Total job cost: **\$2,987.51**