

Girardi - DNR, Chris <chris.girardi@state.co.us>

Mesita Hill Pit M1977227- Inspection Report & Cost Estimate

1 message

Girardi - DNR, Chris <chris.girardi@state.co.us>

Mon, Sep 29, 2025 at 12:28 PM

To: bill@superexmining.com, shantel@superexmining.com

Cc: Jared Ebert - DNR <jared.ebert@state.co.us>, Lucas West - DNR <lucas.west@state.co.us>

Hello Mr. Tezak,

Attached to this email is a pdf of the Division's inspection report for the inspection conducted back in April of this year for the Mesita Hill Pit, permit number M-1977-227.

Also attached to this email is a pdf of the Division's Cost Estimate to complete reclamation. Please contact me within 14 days of this email if you have any questions regarding the estimate.

Hard copies will not be delivered unless requested. Please feel free to contact me if you have any questions.

Thanks,

Chris Girardi

Environmental Protection Specialist



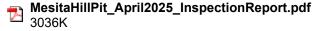
P: (720) 793-3041

Physical: 1313 Sherman Street, Room 215, Denver, CO 80203

Mailing: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216

chris.girardi@state.co.us | https://drms.colorado.gov/

2 attachments



MesitaHillPit_2025CostEstimate.pdf



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:
Mesita Hill Pit		M-1977-227	Volcanic materials	Costilla
INSPECTION TYPE:		WEATHER: Clear	INSP. DATE:	INSP. TIME:
Monitoring			April 22, 2025	12:00pm
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERA	ΓΙΟΝ:
Super Ex., LLC		Bill Tezak	112c - Construction	Regular Operation
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program		Complete Bond	\$109,487	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	E:
Chris Girardi	Ch	ris Dirardi	September 29, 2025	

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>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING N	(SF) PROCESSING FACILITIES N	(TS) TOPSOIL \underline{Y}
(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 N	(RS) RECL PLAN/COMP Y
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION \underline{Y}	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>Y</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

The Mesita Hill Pit was inspected on April 22, 2025 at by Chris Girardi with the Division of Reclamation, Mining, and Safety (DRMS). The inspection was completed as part of the DRMS's routine monitoring inspection program. The site was last inspected on October 6, 2016, as part of a routine monitoring inspection. Bill Tezak represented Super Ex., LLC (Operator) during the inspection. The weather was clear.

The Mesita Hill Pit is a 112c permit for the mining of scoria volcanic rock that consists of 200.91 acres and is located approximately 2 miles west of Mesita, CO. The approved post-mining land use is rangeland. The current land use surrounding the site is rangeland.

A mine identification sign was located at the entrance to the site in compliance with Rule 3.1.12 (see Photo 1). The site is accessed from the south using a gate. The affected area is delineated with a t-posts (see Photo 2).

General Compliance With Mine Plan:

The site is a flat area that slopes towards the mountains towards the San Juan Mountains. At the time of the inspection, the operation was inactive. Approximately 15 acres have been disturbed in small pockets. Much of what appears to be surface disturbance from mining is the surficial expression of a cinder cone the Operator is mining. The site consists of a primary pit, a few smaller pits, several material stockpiles (see Photos 5-6), topsoil berms along the southern permit boundary, and overburden stockpiles along the northern permit boundary. Vegetation is only present in extremely thin patches throughout the site, consisting predominantly of Rubber rabbitbrush and Sand dropseed (see Photo 7). A minor amount of Russian thistle was also observed (see Photo 7), however not to the extent where weed mitigation is necessary. The site also contains a concrete pad with containment bins in the southern portion near the entrance road (see Photos 3-4). Only small stockpiles of boulders were located on the pad, no equipment was observed. The site was in good condition, with no trash observed.

The primary pit was approximately fifty (50) feet in depth, and maintains slopes at 3H:1V configuration or less, with the exception of the toe of the pit slopes slightly exceeding 3H:1V configuration (see Photos 8-9). There was minimal erosion observed along the pit slopes. The pit is located in Mine Phase Areas 1 and 3. According to the Operator, they intend to start backfilling pit excavations soon, as well as resume seeding the western portion of the permit area, which has not been mined or reclaimed since the Succession of Operators (SO) in 2016. Technical Revision (TR) #2, which was approved by the Division in 2011, allows for slopes steeper than 3H:1V configuration to remain in some areas due to being nesting areas for birds. In addition, the Operator is considering submitting an amendment application to add three (3) additional acres to the northeast side of the permit.

Financial Warranty:

The Division currently holds a reclamation bond in the amount of \$69,493. for this operation. The Division has estimated the reclamation liability at the site, and found it to be \$109,487. This is an increase of \$39,994 from the bond currently held. The Operator will have 14 days (October 13, 2025), from the issuance of this report to submit any questions regarding the updated cost estimate. If no questions are received, the Division may issue a Surety Increase notice for the difference. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase in financial warranty from the Division in accordance with Rule 4.2.1(2).

PERMIT #: M-1977-227 INSPECTOR'S INITIALS: CMG INSPECTION DATE: April 22, 2025

This concludes the DRMS' inspection report; a subset of photographs was taken during the time of the inspection are included below. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining, and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 720-793-3041 or by email at chris.girardi@state.co.us.

PHOTOGRAPHS



Photo 1: Mine entrance sign, facing north.



Photo 2: T-post delineating affected area boundary in the north portion of permit.



Photo 3: View of concrete slab with no equipment present, facing south.



Photo 4: View of concrete containment bins nearby the concrete pad, facing south.



Photo 5: View of stockpiled material, facing west.



Photo 6: View of more stockpiled material and wheel loader, facing east.



Photo 7: View of sparse vegetation within permit area, facing southeast.



Photo 8: View of primary pit and steep slopes, facing north.



Photo 9: Alternate view of primary pit, facing north.

PERMIT #: M-1977-227 INSPECTOR'S INITIALS: CMG INSPECTION DATE: April 22, 2025

Inspection Contact Address Bill Tezak

Bill Tezak Super Ex., LLC 270 S. 15th Street Canon City, CO 81212

Enclosure: DRMS Reclamation Cost Estimate

CC:

Jared Ebert, DRMS Lucas West, DRMS

COST SUMMARY WORK

	Task description:	Reclamation of sit						
Site:	Mesita Hill Pit	Permit Ac	etion:	2025 Update		Permit/Job	#: <u>M1977227</u>	
]	PROJECT IDENTIFIC	CATION						
	Task #: 000		Colorado			eviation:	None	
	Date: 9/29/202 User: CMG	5 County:	Costilla		Filen	ame:	M227-001	
	Agency or organization	n name: DRM	1S					
, -	FASK LIST (DIRECT	COSTS)						
Tasl				Form	Fleet	Task		
	Description	••		Used	Size	Hours	Cost	
001	Reduce slopes in p			DOZER TRUCK1	1	3.73 65.92	\$1,969	
002 003	Spread overburder	erburden to next phase		DOZER	1	17.14	\$19,343 \$9,039	
003		psoil" to next phase		TRUCK1	1 1	65.92	\$9,039	
004	Spread "topsoil" at			DOZER	1	17.14	\$9,039	
005	-	structures, bury onsite		DEMOLISH	1	8.00	\$2,306	
007	Revegetation costs			REVEGE	1	15.00	\$12,622	
008	Mob/ Demob	,		MOBILIZE	1	6.80	\$7,934	
	SUBTOTALS: INDIRECT COSTS					199.65	\$81,595	
9	OVERHEAD AND PRO	<u>OFIT:</u>						
	Liability insurance:	2.02			Total =		\$1,648	
	Performance bond:	1.05			Total =	-	\$857	
	Job superintendent:	99.83			Total =	-	\$7,500	
	Profit:	10.00						
			TOTAL 4	Total =	=	\$8,160		
		CONTRACT	AMOUNT	TOTAL (Control of the Control of the) & P =	- -	\$8,160 \$18,164 \$99,759	
]	LEGAL - ENGINEERIN	CONTRACT A		(direct + O & P)) & P =	- - -	\$18,164	
]		NG - PROJECT MANAG	GEMENT:	(direct + O & P)	O & P = =	- - - - -	\$18,164 \$99,759	
]	Financial warranty pro	NG - PROJECT MANAG	GEMENT:	(direct + O & P)	O & P = = T		\$18,164 \$99,759 \$500	
]	Financial warranty pro Engineering work and	NG - PROJECT MANAG	GEMENT: ests):	(direct + O & P)	O & P = = T	otal =	\$18,164 \$99,759	
1	Financial warranty pro Engineering work and	NG - PROJECT MANAG cessing (legal/related co /or contract/bid preparati	GEMENT: ests):	\$500 4.25	O & P = = T T	-	\$18,164 \$99,759 \$500 \$4,240	
]	Financial warranty pro Engineering work and Reclamation managem	NG - PROJECT MANAG cessing (legal/related co for contract/bid preparati tent and/or administratio	GEMENT: ests):	\$500 4.25 5.00	O & P = = T T	otal =	\$18,164 \$99,759 \$500 \$4,240 \$4,988	

BULLDOZER WORK

Task description:	Reduce slopes in pit					
e: Mesita Hill Pit	Mesita Hill Pit Permit Action:		2025 Update	Permit/Job#:	M1977227	
PROJECT IDENTI	FICATION	<u>N</u>				
Task #: 001 Date: 9/29/2 User: CMG	2025	State: County:	Colorado Costilla)	Abbreviation: Filename:	None M227-000
Agency or organiza	tion name:	D	RMS			
HOURLY EQUIPM	IENT COS	<u>T</u>				
Basic Machine: Horsepower: Blade Type: Attachment: Shift Basis: Data Source:	Cat D10T 574 Semi-Univ 3-shank ri 1 per day (CRG)	versal				
Cost Breakdown:				Utilization %		
Ownership Cost/Ho Operating Cost/Hou Ripper own. Cost/Hour: Ripper op. Cost/Hou Operator Cost/Hour Total unit Cost/Hou Total Fleet Cost/Hou	four: \$196.65 \$25.88 Hour: \$0.00 our: \$38.02		NA 100 NA 0 NA			
MATERIAL QUAN	TITIES					
Swell factor:				s of primary pit		
HOURLY PRODUC	CTION					
Average push distar Unadjusted hourly production:	nce:	50 feet 2,748.7 LC	CY/hr			
Materials consistend description:	су	Compa	acted fill or	embankment 0.9		
Average push gradient: Average site altitude	5 % e: 7,75	0 feet				
Material weight:	3,30	0 lbs/LCY				

Weight description:	Decomposed rock - 75% Rock, 25% Earth

Job Condition Correction Factor	or Source	
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2821	
Adjusted unit , production:	775.41 LCY/hr	
Adjusted fleet , production:	775.41 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.680/LCY

Total job time:
Total job cost:

3.73 Hours
\$1,969

TRUCK/LOADER TEAM WORK

Task de	escription:	Load a	nd carry ov	verburden to next phase						
Site: Mesi	Mesita Hill Pit Permit Ac		etion: 2025 Update		Permit/Job#:		M1977227			
PROJEC	CT IDENT	<u>IFICATION</u>								
Task #:	002	Sta	te:	Colora	do		Abbrev	viation:	None	
Date:				Costill			Filenar	-	M227-002	
User:	CMC		<i>,</i>					-		
		ration name:	DRM							-
HOUKL	Y EQUIP	MENT COST S	miii basis: <u>1</u>	i per d	<u>ay</u>					
	Equipment	Description								_
	Loader Tear	m -Truck:			eric 10-12 cy, 6	x4				=
Loade					7 950H					-
Suppor -Dump		nt -Load Area:		NA NA						=
		e –Motor Grader:		NA NA						=
	Truck:	Wiotor Grader.		NA						=
										=
Cost Bre	eakdown:	Truck/Loa	1	S	Support Equipm			nance Equip		
		Truck	Loader		Load Area	Dump	Area	Motor Grader	Water	Truck
%Utilization	-machine:	100	100		NA	NA		NA	NA	
Ownership co	ost/hour:	\$23.56	\$39.04		NA	NA		NA	NA	
Operating co	st/hour:	\$55.85	\$36.06		NA	NA		NA	NA	
%Utilization	-riper:	NA	0		NA	NA		NA	NA	
Ripper own. cost/hour:		NA	\$0.00		NA	NA		NA	NA	
Ripper op. co	st/hour:	NA	\$0.00		NA	NA		NA	NA	
Operator cos	t/hour:	\$0.00	\$59.52		NA	NA		NA	NA	
Unit Subtotal	ls:	\$79.41	\$134.62		NA	NA		NA	NA	
Number of U	nits:	2	1		0	0		0	0	
Group Subto	tals:	Work:	\$293.44		Support:	\$0.00		Maint:	\$0.00	
	rk team cos	st/hour: \$293.44		,						
Initial r		24.200		CCV	Crys11 foot		1 125			
	volume: volume:	24,200 27,225		CCY LCY	Swell factor	or:	1.125			
Loose	volume.	21,223		LCI						
Source	of estimate	d volume:		Divis	ion of Reclama	tion, Mini	ing & Sa	fety		
		ed swell factor:	=	Cat Handbook					=	
Materia	al Purchase	Cost:	_	\$0.00	l					=
Total Cost:			\$0.00							

HOURLY PRODUCTION

Truck Capacity: Truck Payload (weight) I	Basis:							
Material weight:	2,550		Pounds/	LCY				
Description:	Earth - Dry	Earth - Dry packed						
Rated Payload:	35,400							
Payload Capacity:	13.88		LCY					
Truck Bed (volume) Basi	s:							
Struck Volume:	10.00	LCY						
Heaped Volume:	12.00	LCY						
Average Volume:	11.00	LCY						
Adjusted Volume:	12.00	LCY						
Final Truck Volume Ba	sed on Number o	f Loader Passe	es:		9.46		LCY	
Loading Tool Capacity								
		Bucke	t Size Cla	ss:		NA	A	
Rated Capacity:	4.300	LCY (h	eaped)					
Bucket Fill Factor:	1.100		rock/dirt	mixtures (10	0-120%) 1	.100		- -
Adjusted Capacity:	4.730	LCY						
Job Condition Correction	ons: Site Al	titude (ft.): <u>77</u>	<u>50</u> feet					
	Truck	Loader		Source				
Altitude Adj:	0.970	1.000		(CAT HB)				
Job Efficiency:	0.830	0.830		(CAT HB)				
Net Correction:	0.805	0.830						
Loading Tool Cycle Tir		ber of Loading	g Tool Pa	sses Required	to Fill	2		passes
Excavators and Front Sh	Truc <u>ovels:</u>	·K:						
Machine Cycle Time vs Selected Value within t			NA NA					
Track Loaders – Materi	al Description:							
Cycle Time Elements (m	in.):							
Load: NA	Maneuver	:: _ <u>]</u>	NA	Dump:		0.100		
Wheel and Track Loade maneuver):	ers - Unadjusted F	Basic Loader C	Sycle Time	e (load, dump,		0.500	mii	nutes
Cycle Time Factors					Factor (n	nin.)	Source	
Material:	Mixed mat	erial 0.02			0.020	,	(Cat HB)	 ,
Stockpile:		nent - factor no	t applical	ole 0.00	0.000		(Cat HB)	
Truck Ownership:	Common o	wnership of tr	ucks and	loaders -	-0.040		(Cat HB)	
	0.07							

Operation Dump Ta			Constant operat		-0.040 0.000		(Cat HB) (Cat HB)		
			Net Cycle Time Adjustment: Adjusted Loader Cycle Time: Net Load Time per Truck: 0.540					minu minu minu	tes
Truck Cyc	ele Tim	<u>e:</u>							
Truck Exchang	ge Time	e:	0.50	Minutes	Adjusted for s	ite altitude:		0.515	Minu
Truck Load Ti	me:		0.540	Minutes	Adjusted for s	ite altitude:	-	0.540	Minu
Truck Maneuv Time:	er and	Dump	0.90	Minutes	Adjusted for s	ite altitude:	-	0.928	Minu
Truck Trave penetration Haul Route	4.0	ıl & Return)	Time: Ro	ad Conditio	n: <u>Rutted dirt, li</u>	ittle maintena	ice, no wa	ater, 1" tii	<u>re</u>
Seg#	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
1	240.0	00	0.00	4.00	4.00	2665	0.188		
				Haul	Time:	0.188	r	ninutes	
Return Rou Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel		
	(Ft)			(%)	(%)	(fpm)	Time (min)		
1	240.0	00	0.00	4.00	4.00	2849	0.110		
			Return Time: Total Truck Cy	vele Time:		0.110 2.281		minutes minutes	
ading Tool unit oduction ack Unit Produc		537.77	LCY/Hour	Adjus	sted for job effic	ciency:	446.3	5	LCY/Hour
ick Offit Froduc	Mon	248.81	LCY/Hour	Adjus	sted for job effic	ciency:	206.5	1	LCY/Hour
timal No. of Tr	ucks:	2	Truck(s)	Selec	ted Number of	Γrucks:	_ 2		Truck(s)
۸		e truck/load	n production: er team production			413.02 413.02 413.02		LCY/Ho LCY/Ho LCY/Ho	our
Adjuste		ple truck/lo	ader team product	.1011.		413.02			
Adjuste	ed multi	-	ader team product	ion.		413.02			
Adjuste Adjuste	ed multi E AND	-	ader team product Team(s)		ob time:	65.92		Hours	

BULLDOZER WORK

Task description: Spread overburden at next			phase		
Mesita Hill Pit	Permit A	Action:	2025 Update	Permit/Job#:	M1977227
<u>PROJECT IDENTIFI</u>	CATION				
Task #: 003 Date: 9/29/202	State: County:	Colorado Costilla		Abbreviation: Filename:	None M227-003
User: CMG					111227 000
Agency or organization	on name: <u>DR</u>	MS			
HOURLY EQUIPME	NT COST				
	Cat D10T - 10SU		_		
<u> </u>	574		_		
- I	Semi-Universal		=		
	3-shank ripper I per day		_		
	(CRG)		_ _		
Cost Breakdown:		I			
Ownership Cost/Hour	r: \$266.69		Utilization % NA		
Operating Cost/Hour:			100		
Ripper own. Cost/Hour:	\$25.88		NA		
Ripper op. Cost/Hour	: \$0.00		0		
Operator Cost/Hour:	\$38.02		NA		
Total unit Cost/Hour:	\$527.24				
Total Fleet Cost/Hour					
MATERIAL QUANT	<u>ITIES</u>				
	4,200	_			
	.115 6,983 LCY	_			
		_			
Source of estimated v			on, Mining & Safety	У	
factor:	well Cat Handi	ооок			
HOURLY PRODUCT	CION				
Average push distance	e: 50 feet				
Unadjusted hourly production:	2,748.7 LCY	Y/hr			
Materials consistency description:	Loose s	tockpile 1.2			
Average push gradient:	0 %				
Average site altitude:	7,750 feet	<u> </u>			
Material weight:	2 100 lbs/LCV				

Weight description:	Earth - Loam	
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Job Condition Correction F	Sactor Source	
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5726	
Adjusted unit production:	1,573.91 LCY/hr	
Adjusted fleet production:	1573.91 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.335/LCY

Total job time: 17.14 Hours
Total job cost: \$9,039

TRUCK/LOADER TEAM WORK

Site: Mesita Hill Pit		Permit Ac	ntion:	2025 Und	oto	Permit/Job#:	M1977227
Site: Wiesita Hill Pit		Periiii A	zuon:	2025 Upda	ate	_ Perimi/Joo#:	W119//22/
PROJECT IDENT	<u>IFICATION</u>						
Task #: 004	S	tate:	Colorado		Abb	reviation:	None
		county:	Costilla		File	name:	M227-004
User: CMC	<u> </u>						
Agency or organiz	zation name:	DRM	1S				
HOURLY EQUIPM	MENT COST	Shift basis: 1	l per day				
	Description						
Truck Loader Tear	m -Truck:			10-12 cy, 6x	4		
Loader: Support Equipmer	nt -I oad Area:		CAT 95 NA	0H			
-Dump Area:	it -Load Area.		NA				
Road Maintenance	–Motor Grade	r:	NA				
-Water Truck:			NA				
Cost Breakdown:	Truck/L	oader Team	Sunr	ort Equipme	nt Mai	ntenance Equipr	ment
cost breakdown.	Truck	Loader		oad Area	Dump Area		Water Truck
%Utilization-machine:	100	100	N.	A	NA	NA	NA
Ownership cost/hour:	\$23.56	\$39.04	N.	A	NA	NA	NA
Operating cost/hour:	\$55.85	\$36.06	N.	A	NA	NA	NA
%Utilization-riper:	NA	0	N.	A	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	N.	A	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	N.	A	NA	NA	NA
Operator cost/hour:	\$0.00	\$59.52	N.		NA	NA	NA
Unit Subtotals:	\$79.41	\$134.62	N.	A	NA	NA	NA
Number of Units:	2	1	0		0	0	0
Group Subtotals:	Work:	\$293.44	Su	ipport:	\$0.00	Maint:	\$0.00
Total work team cos	st/hour: \$293.4	4					
MATERIAL QUA	NTITIES						
Initial volume:	24,200		CCY	Swell factor	r: 1.12	25	
Loose volume:	27,225		LCY	Swell lacto			
		_					
Source of estimate Source of estimate		-	Division Cat Hand		on, Mining &	Safety	
Material Purchase		-	\$0.00	IDOOK			
Total Cost:	Cost.	-	\$0.00				
		_					
HOURLY PRODU	<u>ICTION</u>						
Truck Capacity:	-1-4) D . '						
Truck Payload (weigh Material weigh)		Pounds/LCY	7		
Description:		ı - Dry packe		- 561145/LCT			

Rated Payload: Payload Capacity:	35,400 13.88	Pou LCY			
Truck Bed (volume) Basi Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	10.00 12.00 11.00 12.00	LCY LCY LCY LCY			
Final Truck Volume Ba	sed on Number of	Loader Passes:		9.46	LCY
Loading Tool Capacity		Bucket Size	Class:		NA
Rated Capacity:	4.300	LCY (heaped			IVA
Bucket Fill Factor:	1.100	Other - rock/o		00-120%) 1.100	
Adjusted Capacity:	4.730	LCY	·		
Job Condition Correction	ons: Site Alt	itude (ft.): <u>7750</u> fee	et		
	Truck	Loader	Source		
Altitude Adj: Job Efficiency:	0.970 0.830	1.000 0.830	(CAT HB) (CAT HB)		
Job Efficiency.	0.830	0.830	(CAT IIB)		
Net Correction:	0.805	0.830			
Loading Tool Cycle Ti	mo: Numi	ber of Loading Too	l Daggag Dagginad	l to Eill	
Loading Tool Cycle In	nuiii	bei of Loading 100	i Passes Required	110 1111	passes
	Truck	_	i Passes Required	2	passes
Excavators and Front Sh	Truck	_	i Passes Required	2	passes
Excavators and Front Sh Machine Cycle Time vs	Truckovels: s. Job Condition R	c: ating: <u>NA</u>	i Passes Required	2	passes
Excavators and Front Sh	Truckovels: s. Job Condition R	ζ:	r Passes Required	2	passes
Excavators and Front Sh Machine Cycle Time vs	Truck ovels: s. Job Condition R his Basic Rating:	c: ating: <u>NA</u>	i Passes Required	2	passes
Excavators and Front Sh Machine Cycle Time vs Selected Value within t	Truck ovels: s. Job Condition R his Basic Rating:	c: ating: <u>NA</u>	i Passes Required		passes
Excavators and Front Sh Machine Cycle Time vs Selected Value within t	Truck ovels: s. Job Condition R his Basic Rating: ial Description:	c: ating: <u>NA</u>	i Passes Required		passes
Excavators and Front Sh Machine Cycle Time vs Selected Value within t Track Loaders – Mater	Truck ovels: s. Job Condition R his Basic Rating: ial Description:	ating: NA NA	Dump:		<u> </u>
Excavators and Front Sh Machine Cycle Time verselected Value within the Track Loaders – Material Cycle Time Elements (m.	Truck ovels: s. Job Condition R this Basic Rating: ial Description: in.): Maneuver:	ating: NA NA NA NA	Dump:	0.10	00 minutes
Excavators and Front Sh Machine Cycle Time very Selected Value within the Track Loaders – Material Cycle Time Elements (m. Load: NA Wheel and Track Loaders	Truck ovels: s. Job Condition R this Basic Rating: ial Description: in.): Maneuver:	ating: NA NA NA NA	Dump:	0.10	00 minutes
Excavators and Front Shandshine Cycle Time verselected Value within the Track Loaders – Material: Cycle Time Elements (maneuver): Cycle Time Factors Material:	Truckovels: s. Job Condition Rhis Basic Rating: ial Description: in.): Maneuver: ers - Unadjusted B Mixed mate	ating: NA NA NA asic Loader Cycle 7	Dump:	0.10 0.50 Factor (min.) 0.020	00 minutes Source (Cat HB)
Excavators and Front Sh Machine Cycle Time very Selected Value within to the Track Loaders – Material: Cycle Time Elements (maneuver): Cycle Time Factors Material: Stockpile:	Truckovels: s. Job Condition Rehis Basic Rating: ial Description: in.): Maneuver: ers - Unadjusted B Mixed mate No adjustm	NA NA NA asic Loader Cycle 7 rial 0.02 ent - factor not appl	Dump:	0.10 7. 0.50 Factor (min.)	00 minutes Source
Excavators and Front Shandshine Cycle Time verselected Value within the Track Loaders – Material: Cycle Time Elements (maneuver): Cycle Time Factors Material:	Truckovels: s. Job Condition R this Basic Rating: ial Description: Maneuver: ers - Unadjusted B Mixed mate No adjustm Common ov	ating: NA NA NA asic Loader Cycle 7	Dump:	0.10 0.50 Factor (min.) 0.020	00 minutes Source (Cat HB)
Excavators and Front Sh Machine Cycle Time very Selected Value within to the Track Loaders – Material: Cycle Time Elements (maneuver): Cycle Time Factors Material: Stockpile:	Truckovels: s. Job Condition R his Basic Rating: ial Description: in.): Maneuver: ers - Unadjusted B Mixed mate No adjustm Common ov 0.04	NA NA NA asic Loader Cycle 7 rial 0.02 ent - factor not appl	Dump:	0.10 0.50 Factor (min.) 0.020 0.000	00 minutes Source (Cat HB) (Cat HB)
Excavators and Front Sh Machine Cycle Time very Selected Value within to the Selected Value within the Sele	Truckovels: s. Job Condition R his Basic Rating: ial Description: in.): Maneuver: ers - Unadjusted B Mixed mate No adjustm Common ov 0.04 Constant op Nominal tar	NA NA NA asic Loader Cycle To trial 0.02 ent - factor not apple whership of trucks a teration -0.04 get 0.00	Dump:	0.10 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	00 minutes Source (Cat HB) (Cat HB) (Cat HB)
Excavators and Front Sh Machine Cycle Time very Selected Value within to the Selected Value within the Sele	Truckovels: s. Job Condition R his Basic Rating: ial Description: Maneuver: Maneuver: ers - Unadjusted B Mixed mate No adjustm Common ov 0.04 Constant op Nominal tar Net Cycle T	NA NA NA asic Loader Cycle To trial 0.02 ent - factor not apple wnership of trucks a trial 0.00 eration -0.04 riget 0.00 Time Adjustment:	Dump:	0.10 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	Source (Cat HB) minutes
Excavators and Front Sh Machine Cycle Time very Selected Value within to the Selected Value within the Sele	Truckovels: s. Job Condition R his Basic Rating: ial Description: Maneuver: Maneuver: ers - Unadjusted B Mixed mate No adjustm Common or 0.04 Constant op Nominal tar Net Cycle T Adjusted Lo	NA NA NA asic Loader Cycle To trial 0.02 ent - factor not apple whership of trucks a teration -0.04 get 0.00	Dump:	0.10 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	00 minutes Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)

Truck Cycle Time:

Truck Exchar	nge Tim	e:	0.50	Minutes	Adjusted for s	ite altitude:		0.515	Minutes
Truck Load T	ime:		0.540	Minutes	Adjusted for s	ite altitude:		0.540	Minutes
Гruck Maneu Гime:	ver and	Dump	0.90	Minutes	Adjusted for s	ite altitude:		0.928	Minutes
Truck Trapenetration Haul Rout	n 4.0	ıl & Return)	<u>Time:</u> R	oad Conditio	n: <u>Rutted dirt, li</u>	ittle maintenar	nce, no w	ater, 1" tii	<u>'e</u>
Seg#	Haul (Ft)	Distance	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)		
1	240.0	00	0.00	4.00	4.00	2665	0.188		
Return Ro	uto:			Haul	Time:	0.188	1	minutes	
Seg #	_	Distance	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)		
1	240.0	00	0.00	4.00	4.00	2849	0.110		
			Return Time: Total Truck C	ycle Time:		0.110 2.281		minutes minutes	
ding Tool uni luction ck Unit Produ		537.77	LCY/Hou	r Adjus	sted for job effic	ciency:	446.3	35	LCY/Hour
ok Omi i roda	CHOII	248.81	LCY/Hou	r Adjus	sted for job effic	ciency:	206.5	51	LCY/Hour
imal No. of T	rucks:	2	Truck(s)	Selec	ted Number of	Γrucks:	_ 2		Truck(s)
Adjust	ed singl	e truck/loade	production: er team production der team produc			413.02 413.02 413.02		LCY/Ho LCY/Ho LCY/Ho	our
JOB TIM	E AND	COST							
Fleet size	e: _	1	Team(s)	Total j	ob time:	65.92		Hours	
					ob cost:	\$19,343			

BULLDOZER WORK

	Task descrip	tion:	Spread	l "topsoil" at nex	t phase				
Site:	Mesita Hi	ill Pit		Permit Action:	2025	Update	_ Permit/Job#:	M1977227	1
	PROJECT II	DENTIFIC	CATION						
	Task #:	005		State:	Colorado		Abbreviat	ion:	None
	Date:	9/29/20)25	County:	Costilla		Filename:	_	M227-005
	User:	CMG		-					
	Agency or o	rganizatio	n name:	DRM	1S				
;	HOURLY EC	QUIPMEN	T COST						
	Basic Machi	ine:	Cat D10T	- 10SU					
	Horsepower	:	574						
	Blade Type:	-	Semi-Univ	ersal					
	Attachment:	=	3-shank rip	per					
	Shift Basis:	-	1 per day						
	Data Source	: _	(CRG)			_			
	Cost Breakdov	wn:							
•						Utilization %			
	Ownership (Cost/Hour:	\$266	5.69		NA			
	Operating C		\$190	5.65		100			
	Ripper own.					NA			
	Ripper op. C		\$0.0			0			
	Operator Co		\$38.	02		NA			
	op ri mer ce	20.2120.011		<u>~-</u>		1171			
	Total unit C	ost/Hour:	\$527	⁷ .24					
	Total Fleet C	Cost/Hour:	\$527	7.24					
	MATERIAL	QUANTI'	ΓIES						
	Initial Volum		24,200		_				
	Swell factor	_	1.115	<u> </u>	_				
	Loose volun	ne:	26,983 LCY		_				
	Source of es	timated vo	lume:			, Mining & Safety	7		
	Source of es	timated sw	ell factor:	Cat Handboo	ok				
·	HOURLY PE	RODUCTI	<u>ON</u>						
	Average pus	sh distance:		50 feet					
	Unadjusted l			2,748.7 LCY/h	r				
	Materials co	nsistency o	lescription:	Loose sto	ckpile 1.2				
	Average pus	sh gradient	0 %						
	Average site	altitude:	7,75	0 feet	_				
	Material wei	ight:	2,10	0 lbs/LCY					
	Weight desc	ription:	Eart	h - Loam					
	Job Condition		n Factor S	Source					
	Operator Sk			0.750		(AVG.)		_	
	Material con			1.200		(CAT HB)		_	
	Dozing meth	nod:		1.000		(GEN.)			

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
		'

Net correction: 0.5726

Adjusted unit production: 1,573.91 LCY/hr
Adjusted fleet production: 1573.91 LCY/hr

JOB TIME AND COST

 Fleet size:
 1 Dozer(s)

 Unit cost:
 \$0.335/LCY

Total job time: 17.14 Hours
Total job cost: \$9,039

DEMOLITION WORK

	Task description:	Demoli	ish concrete structu	res, bury onsite				
Site:	Mesita Hill Pit		Permit Action:	2025 Update	Permit/J	ob#:	M1977227	
PROJEC	CT IDENTIFICATION							
Task #: Date: User:	006 9/29/2025 CMG	State: County:	Colorado Costilla		Abbreviation: Filename:	Non M22	e 27-006	<u> </u>
Agency	or organization name:		DRMS					_

UNIT COSTS Location adjustment: 89.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete slab	30 X 50 X .5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	1,500.00	SF	\$1.21	\$1,816.05
Break concrete bin walls	80' X 12'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 50 ft. push	960.00	SF	\$0.81	\$774.82

Subtotal Cost (adjusted for Job Hours: 8.00 (unadjusted): \$2,590.87 location): \$2,305.87

REVEGETATION WORK

Mesita	a Hill Pit	Permi	t Action:	2025	Update	Pe	ermit/Job#:	M1977227
ROJEC	Γ IDENTIFICAT	<u>ION</u>						
Task #:	007	State:	Colora	do		Abbrevi	ation:	None
Date:	9/29/2025	County:	Costilla			Filenam	_	M227-007
User:	CMG	<u></u>						
Agency	or organization nar	ne: <u>Γ</u>	DRMS					
ERTILI	ZING							
Aaterials								
				Units /				
Descri	ption			Acre	Unit	Cost	:/Unit	Cost /Acre
						\$		\$
						Taka	ıl Fertilizer	
							n Ferunzer erials	
							/Acre	\$0.00
Descri	ption							Cost /Acre
								\$
Total l	Fertilizer Applica	tion Cost/Acre						
	Fertilizer Applica	tion Cost/Acre						\$
		tion Cost/Acre						\$
	<u>!</u>	tion Cost/Acre						\$
TILLING	<u>!</u>	tion Cost/Acre						\$ \$0.00 Cost /Acre
Descri	ption	tion Cost/Acre						\$ \$0.00 Cost /Acre
Descri	<u>!</u>	tion Cost/Acre						\$ \$0.00 Cost /Acre
Descri	ption Filling Cost/Acre	tion Cost/Acre						\$ \$0.00 Cost /Acre
Descri Total 7	ption Filling Cost/Acre	tion Cost/Acre				Rate –		\$ \$0.00 Cost /Acre \$ \$0.00
Descri Total	ption Filling Cost/Acre	tion Cost/Acre				PLS	Seeds	\$ \$0.00 Cost /Acre
Descri Total 7	ption Filling Cost/Acre	tion Cost/Acre				PLS LBS /	per SQ.	\$ \$0.00 Cost /Acre \$ \$0.00
Descri Total T	ption Filling Cost/Acre	tion Cost/Acre				PLS		\$ \$0.00 Cost /Acre \$ \$0.00

Sand Dropseed

Winter Fat

Rabbitbrush, Rubber

Saltbush, Four Wing

Totals Seed Mix

Western Wheatgrass - Native

\$6.66

\$85.39

\$11.07

\$16.28

\$9.57

\$140.41

0.50

1.00

1.20

0.80

0.20

4.30

59.69

14.90

3.03

1.10

0.51

83.79

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$279.08
Total Seed Application Cost/Acre	\$279.08

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	2.00	ACRE	\$5.22	\$10.45
Total Mulch Materials Cost/Acre				\$10.45

Application

Description	Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]	\$243.21
Total Mulch Application Cost/Acre	\$243.21

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	15	Cost /Acre:	\$673.15
Estimated Failure Rate:	25%	Cost /Acre*:	\$673.15
*C-141 D14' W/1- I4	CEEDING MILLCHING		

*Selected Replanting Work Items: SEEDING, MULCHING

Initial Job Cost: \$10,097.25

Reseeding Job Cost: \$2,524.31

Total Job Cost: \$12,622

Job Hours: 15.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	Task descri	ption: Mo	b/ Demob				
ite:	Mesita H	Iill Pit	Permit	Action:	2025 Update	Permit/Job#:	M1977227
<u>P</u>	PROJECT I	IDENTIFICATIO	<u>N</u>				
	Task #: Date: User:	008 9/29/2025 CMG	State: County:	Colorado Costilla		Abbreviation: Filename:	None M227-008
		organization name:		RMS			
<u>F</u>	LQUIPMEN	NT TRANSPORT	RIG COST				
	Shift ba						er day
	Cost Data	a Source:					CG Data
	Truck T	ractor Description:		ENERIC ON- 00 HP (2ND H		K TRACTOR, 6X4, I	DIESEL POWERED,
	Truck Tra	ailer Description:			DING GOOSENEC , 50T, AND 100T)	CK, DROP DECK EQ	UIPMENT

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

NON-ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D10T -	84.53	\$266.69	\$159.59	1	\$426.28	\$159.59	\$250.00
10SU							
Cat 319D L 8'-	21.50	\$56.65	\$75.46	1	\$132.11	\$75.46	\$250.00
10" Stick							
Drill/Broadcast	25.00	\$5.99	\$75.46	2	\$162.90	\$150.92	\$500.00
Seeder with							
Tractor							
CAT 950H	20.13	\$39.04	\$75.46	1	\$114.50	\$75.46	\$250.00

Subtotals:	\$835.79	\$461.43	\$1,250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 8-10 cy, 6x4	\$88.15	2	\$176.30	\$176.30
Light Duty Pickup, 4x2, 1/2 T.	\$20.11	1	\$20.11	\$20.11

Subtotals: \$196.41 \$196.41

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

Total Non-Roadable Mob/Demob Cost *

\$7,659.27

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.70	0.70
Return Time (Hours):	0.70	0.70
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.40	1.40

JOB TIME AND COST

Total job time: 6.80 Hours

Total job cost: **\$7,934**