

January 13, 2025

George Glasier Pinon Ridge Mining LLC P O Box 825 31161 Highway 90 Nucla, CO 81424

Re: St Jude Mine - File No. M-1978-039-HR

Pinon Ridge Mining LLC Surety Increase (SI-4) Surety Increase

Dear George Glasier:

On January 13, 2025 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$108,830.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$39,002.00.

Regular Surety Increase based on Inspection and inflationary increases.

Please see the November 13, 2024 inspection report for details regarding why this surety increase is required.

On January 13, 2025, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567, or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by March 14, 2025.

Bond Held:	\$69,828.00
Prior Liability:	\$69,828.00



Change in Liability:	\$39,002.00
Revised Liability:	\$108,830.00
Prior Permit Acreage:	9.80
Change in Permit Acreage:	0.00
Revised Permit Acreage:	9.80
Prior Affected Acreage:	9.80
Change in Affected Acreage:	0.00
Revised Affected Acreage:	9.80

If you have any questions, please contact me by telephone at (303) 919-2997, or by email at Lucas.west@state.co.us.

Sincerely,

Lucas J. West

Environmental Protection Specialist

M-GR-04

COST SUMMARY WORK

: St Jude Mine		Per	mit Action: 2024 Update	Permit/Jo	Permit/Job#: <u>M1978039HR</u>		
PROJECT	IDENTIFICAT	<u> ION</u>					
Task #:	000	_ State:	Colorado	Abbreviation:	None		
Date:	11/26/2024	_ County:	San Miguel	Filename:	M039-000		
User:	LJW						

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish onsite structures; underground or surface disposal	DEMOLISH	1	40.00	\$11,833
002a	Remove Operational Soils from lined ore pad, fold up liner	EXCAVATE	1	0.75	\$389
002b	Load and Carry liner underground for disposal	TRUCK1	1	0.74	\$431
002c	Grade out material from deconstructed Ore Pad	DOZER	1	0.38	\$180
003a	Demo Vent Fan SJ-1	DEMOLISH	1	36.00	\$1,366
003b	Vent Shaft Closure SJ-1	MINESEAL	1	16.00	\$4,218
004	Portal closure (backfill and recontour)	MINESEAL	1	24.00	\$13,606
005	Grade waste dump (DRA), pad and portal areas	DOZER	1	21.39	\$10,157
006	Rip compaction on pad and Roads	RIPPER	1	5.63	\$2,732
007	Carry topsoil to pad for spreading	LOADER	1	11.57	\$1,016
008	Spread topsoil on pad areas	DOZER	1	2.84	\$1,347
009	Grade access road	DOZER	1	0.52	\$247
010	Revegetate disturbed areas	REVEGE	1	24.00	\$25,377
011	Haul reclamation equipment to and from site	MOBILIZE	1	10.00	\$11,974
		SUBTO	TALS:	193.82	\$84,873

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,714
Performance bond:	1.05	Total =	\$891
Job superintendent:	96.91	Total =	\$7,682
Profit:	10.00	Total =	\$8,487

TOTAL O & P = $\frac{$18,775}{$103,648}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$5,182

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$23,957

TOTAL BOND AMOUNT (direct + indirect) = \$108,830

DEMOLITION WORK

Site: S	t Jude Mine		Permit Action: 2024 Update Permit/Jo		/Job#: <u>M1978039HR</u>
ROJECT	<u>Γ IDENTIFICATI</u>	<u>ON</u>			
Task #:	001	State:	Colorado	Abbreviation:	None
Date:	11/26/2024	County:	San Miguel	Filename:	039-01
User:	LJW	_		_	

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Shop/dry/office metal bldg.	40x50x15	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	30,000.00	CF	\$0.24	\$7,086.00
Shop/dry/office bldg. concrete slab	40x50	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	2,000.00	SF	\$0.79	\$1,584.40
Denison-owned powerlines	630 LF	Disposal of utility pole cross arms and hardware surplus material	630.00	LF	\$0.01	\$6.30
Electric substation, fenced	10x15x6	Fencing, chain link, including posts and fabric - to 6 ft. high	50.00	LF	\$3.02	\$151.00
Electric transformers, non- PCB	20x36 in	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	2.00	DRUM	\$492.56	\$985.13
Wood-cribbed loadouts	40x15x5	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	3,000.00	CF	\$0.22	\$646.80
Misc parts and debris	20x20x10 mass	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	150.00	CY	\$1.92	\$287.55
Remove Compressor Structure and contents	8x8x4	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	6,000.00	CF	\$0.24	\$1,417.20
Remove Compressor building slab	20x 30 x 4"	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	60.00	SF	\$0.79	\$47.53

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	40.00	(unadjusted):	\$12,211.91	location):	\$11,833.34

HYDRAULIC EXCAVATOR WORK

Task description	: Rem	ove Operation	nal Soils f	rom lined ore p	ad, fold up lin	er	
ite: St Jude Mine	:	Perm	nit Action:	2024 Update		Permit/Job#:	M1978039HR
PROJECT IDE	ENTIFICATIO	<u>ON</u>					
	2A /26/2024 W		Colorado San Migu	e l			one 1039-02a
Agency	or organization	name: DRN	⁄IS				
HOURLY EQU	JIPMENT CO	<u>OST</u>					
Basic Ma Attachm		4D L 9'-8" St Cab	ick	,	Horsepower: Weight (MT): Shift Basis: Data Source:	194 24.8 1 per c (CRC	5 lay
Cost Breakdown:			ı	TT:1: .: 0/			
Operatir Operat	ip Cost/Hour: _ ng Cost/Hour: _ or Cost/Hour: _ nit Cost/Hour:	\$281.20 \$202.68 \$33.87 \$517.75	3	Utilization % NA 100 NA			
Total Flo	eet Cost/Hour:	\$517.7					
MATERIAL Q	·-	ψυτιτ					
Initial volu Loose volu	me: 200		CCY LCY	Swell fact	tor: 1.335		
1	Source of estima	ted volume:	60' x 60'	ore pad, 1.5' de	ep / 27 = 200 C	CY	
Sour	ce of estimated	swell factor:	Cat Hand	lbook			
HOURLY PRO	DUCTION						
Excavator Cycle	<u>Γime (load buck</u>	et, swing loade	ed, dump b	ucket, swing em	ıpty):		
		Ba	sic Job Co	ndition Descript	tion: AVER	AGE	
	Second	dary Job Cond	ition withi	n Basic Descript			• .
Load Bucket Cap	acity			Cycle Time Va	alue: 0.293	m	inutes
					Bucket Size C	Class: Mediu	ım
Bucket F		2.26 0.925		aped) aterial - 1/8" to 3	3/8" (90 - 95%)	0.925	
Adjusted		2.09	LCY				
Job Condition Co	rrection Factors			Sit	e Altitude: <u>580</u>	0 feet	
Altitud Job Effic		.00 .83	Source (CAT HE (1 shift/da	3)			
Net Corre	ection: 0	.83	multiplier				
	Adjusted l	Hourly Unit Pr Hourly Unit Pr Iourly Fleet Pr	oduction:	428.09 355.31 355.31	LCY/Hour LCY/Hour LCY/Hour		
JOB TIME AN	D COST						
Fleet size:	1	Excavator	To	otal job time:	0.7	5	Hours
Unit cost:	\$1.457	/LCY		Total job cost:	\$38	9	

TRUCK/LOADER TEAM WORK

Site: St Jude Mine		Permit Ac	etion: 2024 Upda	ate	Permit/Job#:	M1978039HR
PROJECT IDENT Task #: 002B Date: 11/26/2 User: LJW		State: Color County: San I	rado Miguel	Abl		None 1039-002b
	organization nan	ne: DRMS				
HOURLY EQUIP	MENT COST			Shift ba	sis: <u>1 per day</u>	
Tro	uck Loader Tear		Equipment Descrineric 2-4 cy, 4x2 t 324D L 9'-8" St			
	ntenance –Moto	oad Area: NAmp Area: NA	A A			
Cost Breakdown:	Truck/Loa Truck	der Team Excavator	Support Load Area	Equipment	Mainte Motor	nance Equipment Water Truck
	Truck	Excavator	Load Area	Dump Area	Grader	water Truck
Utilization-machine:	100	100	NA	NA	NA	
Ownership cost/hour:	\$11.22	\$281.20	NA	NA	NA	
Operating cost/hour:	\$29.74	\$202.68	NA	NA	NA	
%Utilization-riper:	NA	0	NA	NA	NA	
pper own. cost/hour:	NA	\$0.00	NA	NA NA	NA	
Ripper op. cost/hour:	NA ************************************	\$0.00	NA	NA	NA	
Operator cost/hour:	\$25.24	\$33.87	NA NA	NA NA	NA	
Unit Subtotals:	\$66.20	\$517.75	NA	NA 0	NA	
Number of Units: Group Subtotals:	Work:	\$583.95	0	\$0.00	Maint	
Total work team cost/	hour: \$583.95		Support:	\$0.00	Manie	. ψο.οο
Initial volume: Loose volume:	75 75			factor: 1.000		
Source o	rce of estimated f estimated swe Material Purcha To	ll factor: Cat		Mil PVC Liner		
HOURLY PROD	OUCTION					
Truck Capacity: Truck Payload (weigh Material wo			Pounds/LCY	7		

Pounds

Rated Payload:

12,420

Truck/Loader Worksheet Co	nt'd	Task # 002E	3		Page 2 of	4
Payload Capacity:	12,420.00	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	2.00	LCY				
Heaped Volume:	4.00	LCY				
Average Volume:	3.00	LCY				
Adjusted Volume: _	4.00	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	4.07	LCY	
Loading Tool Capacity			Ruck	cet Size Class:	Medium	
Rated Capacity:	2.260	LCY (heaped)		cer 512e Cluss.	Wiedram	
Bucket Fill Factor:	0.900	Other - cemen		35 - 95%) 0.900		_
Adjusted Capacity:	2.034	LCY		, , , , , , , , , , , , , , , , , , , ,		_
Job Condition Corrections		T	ite Altitude (ft.):			
1100 1 11	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:		Number of Loading	Tool Passes Req	uired to Fill	2	passes
Excavators and Front Shove	els:		•	Truck:	2	•
Machine Cycle Time v Selected Value			E AVERAGE AGE			
Track Loaders -	- Material Desc	eription:				
Cycle Time Elements (min.)						
Load: NA		Maneuver: NA		Dump: 0.	100	
Wheel and Trac	k Loaders - Ur	nadjusted Basic Load		oad, dump, maneuver):	NA min	utes
Cycle Time Factors	1			· ——	Source	
Material:	NA			Factor (min.)	(Cat HB)	_
Stockpile:	NA			NA	(Cat HB)	_
Truck Ownership:	NA			NA	(Cat HB)	_
Operation:	NA			NA	(Cat HB)	
Dump Target:	NA			NA	(Cat HB)	
			ne Adjustment:	NA	minutes	
		Adjusted Load	•	0.239	minutes	
		Net Load T	ime per Truck:	0.339	minutes	
Truck Cycle Time:						
Truck Exchange Tim	e: 0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Tim	e: 0.339	Minutes	Adjusted	for site altitude:	0.339	Minutes
Truck Maneuver and Dum Tim	•	Minutes	Adjusted	for site altitude:	0.800	Minutes
						_

<u>Truck Travel (Haul & Return) Time:</u> <u>penetration 4.0</u> Road Condition: Rutted dirt, little maintenance, no water, 1" tire

 $Task \ \# \ 002B$

TT	1 D		
Hau	ık	$^{\prime}$	to.
Hau	1 11	Ou	u.

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	0.00	4.00	4.00	2665	0.204

				Haul Time:	0.204	minutes
Return Ro	ute:					
Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	0.00	4.00	4.00	2849	0.150

Return Time: 0.150 minutes
Total Truck Cycle Time: 1.993 minutes

Loadir	ng 🛚	Гоо	unit
	D.,		atian

Production 290.92 LCY/Hour Adjusted for job efficiency: 241.46 LCY/Hour Truck Unit Production 122.47 LCY/Hour Adjusted for job efficiency: 101.65 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 1 Truck(s)

Adjusted hourly truck team production: 101.65 LCY/Hour Adjusted single truck/loader team production: 101.65 LCY/Hour Adjusted multiple truck/loader team production: 101.65 LCY/Hour

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	0.74	Hours
Unit cost:	\$5.745	_ /LCY	Total job cost:	\$431	_

BULLDOZER WORK

Task description:	Grade out material from de	constructed Ore Pad		
te: St Jude Mine	Permit Action:	2024 Update	Permit/Jol	b#: <u>M1978039HR</u>
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 002C Date: 11/26/2024 User: LJW	State: Colorado County: San Migue	el	Abbreviation: Filename:	None M039-002c
Agency or organ				
HOURLY EQUIPMEN	NT COST			
	D9T - 9SU	<u> </u>		
Horsepower: 405 Blade Type: Sen	ni-Universal			
	nank ripper	_		
	er day	<u> </u>		
Data Source: (CF				
Cost Breakdown:				
Cost Breakdown.		Utilization %		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own.	\$18.79	NA		
Cost/Hour: Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59			
Operator Cost/flour.	\$38.39	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$474.89 \$474.89			
Total Ticol Cost Hour.	417110 2			
MATERIAL QUANTI	TIES			
Initial Volume: 200				
Swell factor: 1.33	5			
Loose volume: 267	LCY			
Source of estimated volu	me: Ore Pad underlaymen	t and Operational Soils		
Source of estimated swel		it and Operational Bons		
factor:				
HOURLY PRODUCT	ION			
Average push distance:	50 feet			
Unadjusted hourly production:	2,110.5 LCY/hr			
Materials consistency de	scription: Compacted fill or e	mbankment 0.9		
Average push gradient:	0 %			
Average site altitude:	5,800 feet			
Material weight:	2,700 lbs/LCY		<u> </u>	
Weight description:	Stone - crushed			
Job Condition Correction 1 Operator S		Source (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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3341

Adjusted unit production:
Adjusted fleet production:

70
70

705.12 LCY/hr

705.12 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.673/LCY

Total job time: 0.38 Hours
Total job cost: \$180

DEMOLITION WORK

Site: _	St Jude Mine		Permit Action:	2024 Update	Permit	/Job#:	M1978039HR
ROJEC	T IDENTIFICAT	<u>ION</u>					
Task #:	003A	State:	Colorado		Abbreviation:	None	
Date:	11/26/2024	County:	San Miguel		Filename:	M039	-003a
User:	LJW						

UNIT COSTS

Location adjustment: 86.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Remove Steel Fan/ Diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$50.00	\$250.00
Break Concrete Collor, downshaft disp	12x12x1	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 50 ft. push	144.00	SF	\$2.27	\$326.23
Cut off Casing	6 ft Diam x 3'	USER PROVIDED ITEM	1.00	EA	\$1,001.70	\$1,001.70

Total Cost
(adjusted for

Job Hours: 36.00 (unadjusted): \$1,577.93 location): \$1,366.49

SAFEGUARDING UNDERGROUND OPENINGS

Tas	sk description:	Vent Shaft Closure SJ-1			
Site: S	t Jude Mine	Permit Action:	2024 Update	Permit/	Job#: <u>M1978039HR</u>
<u>PROJECT</u>	T IDENTIFICATION	<u>N</u>			
Task #: Date: User:	003B 11/26/2024 LJW	State: Colorado County: San Miguel		Abbreviation: Filename:	None M039-003b
User:	Agency or organiza	tion name: DRMS			

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Shaft Closure	6x6x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$19.53	\$4,218.48

SAFEGUARDING UNDERGROUND OPENINGS

Site: Si	t Jude Mine	Permit Action:	2024 Update	Permit	/Job#: <u>M1978039HR</u>
<u>ROJECT</u>	T IDENTIFICATION	<u>ON</u>			
Task #:	004	State: Colorado		Abbreviation:	None
Date:	11/26/2024	County: San Miguel		Filename:	M039-004
User:	LJW		_		

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Backfill inert	10x10	Adit closure - backfilling	200.00	CY	\$43.75	\$8,750.00
debris/rock in adit		(per cu. yd.)				
Backfill earth and	10x10	Adit closure - backfilling	111.00	CY	\$43.75	\$4,856.25
recontour portal		(per cu. yd.)				

BULLDOZER WORK

Task description:	Grade waste dump	(DRA), pa	ad and portal areas		
e: St Jude Mine	Permit	Action: _	2024 Update	Permit/Jo	b#: <u>M1978039HR</u>
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 005 Date: 11/26/2020 User: LJW		olorado ın Miguel		Abbreviation: Filename:	None M039-005
Agency or organ	nization name: <u>DRMS</u>				
HOURLY EQUIPME	NT COST				
	t D9T - 9SU		_		
Horsepower: 40			_		
• • • • • • • • • • • • • • • • • • • •	mi-Universal		-		
	shank ripper		=		
	per day		=		
Data Source: (C	RG)		_		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hour:	\$2	253.16	NA		
Operating Cost/Hour:	\$1	64.35	100		
Ripper own.					
Cost/Hour:	3	518.79	NA		
Ripper op. Cost/Hour:	-	\$0.00	0		
Operator Cost/Hour:		38.59	NA		
operator costribur.		050.57	INA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$474.89 \$474.89		 		
MATERIAL QUANT	<u>ITIES</u>				
Initial Volume: $12,0$ Swell factor: 1.33	35				
Loose volume: 16,0)20 LCY				
Source of estimated volu	ume: Division of R	eclamatic	on, Mining & Safety		
Source of estimated swe factor:	Cat Handboo	k			
HOURLY PRODUCT	CION				
Average push distance:	50 feet				
Unadjusted hourly production:	2,110.5 LCY/hi	r			
Materials consistency do	escription: Consolidate	ed stockp	ile 1.0		
Average push gradient:	5 %				
Average site altitude:	5,800 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Sandstone				
Job Condition Correction Operator			Source (AVG.)		

Material consistency:	1.000	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3549

Adjusted unit production:

Adjusted fleet production:

749.02 LCY/hr

749.02 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.634/LCY

Total job time: 21.39 Hours
Total job cost: \$10,157

BULLDOZER RIPPING WORK

		tion on pad and					
Site: St Jude Mine	<u> </u>	Permit Action:	2024 Update		Permit/Job#:	M19780	39HR
PROJECT IDEN	TIFICATION						
Task #: 006	Sta	te: Colorado		Abb	reviation: N	None	
	6/2024 Coun					M039-006	
User: LJW				<u></u>			
Agency or	organization name:	DRMS					=
HOURLY EQUI	PMENT COST						
Basic M	achine: Cat D9T - 9	SU		Horsepower:	40:	5	
	hment: 3-Shank Ri			Shift Basis:	1 per	day	-
				Data Source:	(CR	G)	-
Cost Breakdown:							
				Utilization %			
(Ownership Cost/Hour:			NA	_		
D.	Operating Cost/Hour:		\$164.35	100	_		
	Ownership Cost/Hour:	-	\$18.79	NA 100	_		
Kıpper	Operating Cost/Hour: Operator Cost/Hour:		\$9.48 \$38.59	100 NA	_		
	Total Unit Cost/Hour:		\$484.37	INA	_		
			 -				
,	Total Fleet Cost/Hour:	\$484	.37				
rea: 4.00 S	acres ource of estimated qua	Rip Depth (ft): antity: <u>AM-1 r</u>		Volume:	6,453		BCY or
HOURLY PROD	UCTION						
Seismic:							
	Seismic V	Velocity:	NA	feet/see	cond		
Area:							
	Average Rippin	g Depth:	2.63	feet/pa	SS		
	Average Ripping		7.67	feet/pa			
	Average Ripping		250.00	feet/pa			
	Average Doze		88.00	feet/mi			
	Average Maneuv Production per u		0.25 0.855	minute acres/h			
Job Condition Corre	-	arca.	0.655	acres/11	oui		
	usted Hourly Unit Pro	duation	0.855	Acres/l			
Olladj	•				Ш		
		Altitude:	5,800	feet (CAT)	IID)		
		ude Adj: ficiency:	1.00 0.83	(CAT l (1 shift			
		rrection:	0.83	multip	• /		
							
	Adjusted Hourly U Adjusted Hourly F		0.71 0.71	Acres/hr Acres/hr			
JOB TIME AND	•						
Fleet size:	1 Grade		T 1: 1 .:		5 (1		
i icci sizc.	Grade	r(s)	Total job time	e:	5.64	Hours	

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Carry to	psoil to pad for	r spreading			
te: St Jude Mine		Permit Act	tion: 2024 U _J	odate	Permit/Jo	b#: <u>M1978039HR</u>
PROJECT IDENT	IFICATION					
Task #: 007 Date: 11/26/2 User: LJW	2024 C	State: Color San M	ado Iiguel		Abbreviation: Filename:	None M039-007
Agency or o	rganization nam	e: DRMS				
HOURLY EQUIPM	MENT COST					
Basic Machine	e: <u>CAT 924H</u>		_	Horsepo	wer:	128
Attachment 1	: ROPS Cab			Shift B Data Sou		per day CRG)
Cost Breakdown:			Utilizatio			
Ownership Co	ost/Hour:	\$26.01	NA			
Operating Co		\$24.90	100			
Operator Co		\$36.85	NA			
Total Unit Co	ost/Hour:	\$87.76				
Total Fleet C	ost/Hour:	\$87.76				
MATERIAL QUA	NTITIES .					
Initial volume: Loose volume:	1,500 1,500	CCY LCY		ell factor: 1.0	000	
	ce of estimated swel		sion of Reclam Handbook	ation, Mining &	& Safety	
HOURLY PRODU	CTION					
Loader Cycle Time:		Unadjusted Ba	asic Cycle Tim	e (load, dump, maneuver):	0.475	minutes
Cycle Time Fa	actors			1 1	Factor (min.)	Source
Ma	terial: Mixed	material 0.02			0.020	(Cat HB)
		ustment - factor			0.000	(Cat HB)
Truck Owne		ustment - factor		0.00	0.000	(Cat HB)
Dump T		ant operation -0. justment - factor		0.00	-0.040 0.000	(Cat HB) (Cat HB)
	arget. No au		Cycle Time A		-0.020	minutes
			justed Basic Cy		0.455	minutes
Rolling Resistance – R	oad Conditions					
		irt, little mainter				
Retu	ırn: Rutted d	irt, little mainter	nance, no water	, 1" tire penetra	ation 4.0	
Haul and Return Time						
	Length	Grade Res.	Rolling	Total Res.	Travel Time	Source
	(feet)	(%)	Res. (%)	(%)	(minutes)	
Haul Route:	500	0.00	4.00	4.00	0.3174	(Cat HB)

Return Route:	500	0.00	4.00	4.00	0.3174	(Cat HB)
			Total	Travel Time:	0.6347	minutes
			Tota	l Cycle Time: _	1.0897	minutes
Load Bucket Capacity						
Rated Capacit	y:2	.70	LCY (heaped)			
Bucket Fill Factor			Moist loam or sa	ndy clay (100% -	- 110%) 1.050	
Adjusted Capacit	y: 2	.84	LCY			
Job Condition Correction	Factors					
Site Altitude: 5800 feet						
			Source			
Altitude Adj:	1.00		(CAT HB)			
Job Efficiency:	0.83		1 shift/day)			
Net Correction:	0.83		nultiplier			
			•		- 1	
	•	rly Unit Pro			//Hour	
		rly Unit Pro			//Hour	
A	djusted Hou	rly Fleet Pro	duction: 12	29.56 LCY	7/Hour	
	~					
JOB TIME AND CO	<u>ST</u>					
Fleet size:	<u>1</u> I	Loader(s)	Total jo	b time:	11.58	Hours

Total job cost: \$1,016

Unit cost: \$0.677 /LCY

BULLDOZER WORK

Task description:	Spread topsoil o	n pad areas			
Site: St Jude Mine	Per	mit Action:	2024 Update	Permit/Job	#: <u>M1978039HR</u>
PROJECT IDENTIH	FICATION				
Task #: 008 Date: 11/26/20 User: LJW		Colorado San Miguel	l	Abbreviation: Filename:	None M039-008
Agency or org HOURLY EQUIPM		MS			
	Cat D9T - 9SU				
	05				
	lemi-Universal		— :		
Shift Basis: 1	-shank ripper per day CRG)		- -		
Cost Breakdown:			Utilization %		
Ownership Cost/Hour	··	\$253.16	NA		
Operating Cost/Hour	:	\$164.35	100		
Ripper own Cost/Hour		\$18.79	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour		\$38.59	NA		
Swell factor: 1.	500 125	_			
Loose volume:			on, Mining & Safety		
HOURLY PRODUC Average push distance	<u>_</u>				
Unadjusted hourly production:	1,514.3 LC	Y/hr	<u> </u>		
Materials consistency	description: Consol	idated stockp	ile 1.0		
Average push gradient:	0 %				
Average site altitude:	5,800 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Earth - Dry packet	d			
Job Condition Correctio Operato		750	Source (AVG.)		

Material consistency:	1.000	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3930

Adjusted unit production: 595.12 LCY/hr
Adjusted fleet production: 595.12 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.798/LCY

Total job time: 2.84 Hours
Total job cost: \$1,347

BULLDOZER WORK

: St Jude Mine	D 1. A	202411 1	D 1/T	W 1070000
	Permit Action:	2024 Update	Permit/Jo	b#: <u>M1978039HF</u>
PROJECT IDENTIFI	<u>CATION</u>			
Task #: 009	State: Colorado		Abbreviation:	None
Date: 11/26/2024		el	Filename:	M039-009
User: LJW				
Agency or organ	nization name: DRMS			
<u>HOURLY EQUIPME</u>	NT COST			
Basic Machine: Ca	t D9T - 9SU	<u></u>		
Horsepower: 40				
• • • • • • • • • • • • • • • • • • • •	mi-Universal			
	hank ripper	<u> </u>		
	er day	<u> </u>		
Data Source: (C	RG)	<u> </u>		
Cost Breakdown:				
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$253.16	NA		
Operating Cost/Hour:	\$164.35	100		
Ripper own.	\$18.79	NA		
Cost/Hour:				
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Total unit Cost/Hour:	\$474.89			
Total Fleet Cost/Hour:	\$474.89			
MATERIAL QUANT	ITIES			
Initial Volume: 325	· -			
Swell factor: 1.16				
Loose volume: 379	LCY			
Source of estimated volu	ame: Division of Reclamat	ion, Mining & Safety		
Source of estimated swe	ll Cat Handbook			
factor:				
HOURLY PRODUCT	<u>ION</u>			
HOURLY PRODUCT				
Average push distance:	50 feet			
Average push distance: Unadjusted hourly				
Average push distance:	50 feet			
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LCY/hr	 nile 1 0		
Average push distance: Unadjusted hourly production:	50 feet	pile 1.0		
Average push distance: Unadjusted hourly production: Materials consistency de	50 feet 2,110.5 LCY/hr escription: Consolidated stock	pile 1.0		
Average push distance: Unadjusted hourly production: Materials consistency de Average push	50 feet 2,110.5 LCY/hr	pile 1.0		
Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	50 feet 2,110.5 LCY/hr escription: Consolidated stock	pile 1.0		
Average push distance: Unadjusted hourly production: Materials consistency de Average push	50 feet 2,110.5 LCY/hr escription: Consolidated stock	pile 1.0		
Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	50 feet 2,110.5 LCY/hr escription: Consolidated stock	pile 1.0		
Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude: Material weight:	50 feet 2,110.5 LCY/hr escription: Consolidated stock 0 % 5,800 feet 2,900 lbs/LCY			
Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient: Average site altitude:	50 feet 2,110.5 LCY/hr escription: Consolidated stocks 0 % 5,800 feet 2,900 lbs/LCY Decomposed rock - 50% Rock			

Material consistency:	1.000	(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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3455

Adjusted unit production: 729.18 LCY/hr
Adjusted fleet production: 729.18 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.651/LCY

Total job time: 0.52 Hours
Total job cost: \$247

REVEGETATION WORK

Task description:	Revegetate disturbed	areas				
e: St Jude Mine	Permit Action: _2024 Update Permit/Job#:					: <u>M1978039HR</u>
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 010		lorado		Abb	reviation:	None
Date: 11/26/202 User: LJW				Filename:	M039-010	
Agency or orga	anization name: DRMS					
<u>FERTILIZING</u>						
Materials						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	nl Fertilizer Materials Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		Total	Fertilizer A	pplication	Cost/Acre	\$0.00
<u>TILLING</u>						
Description						Cost /Acre
Disc harrowing, 6" de	eep (MEANS 32 91 13.23 6	6100)				\$117.61
			To	otal Tilling	g Cost/Acre	\$117.61
<u>SEEDING</u>						
G IM:				Rate –	Soods	Cost /A ava

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$20.47
Indian Ricegrass - Native	7.42	24.02	\$128.31
Sand Dropseed	0.14	16.71	\$1.82
Bottlebrush Squirreltail	4.08	17.98	\$103.65
Galleta	4.94	18.03	\$273.86
Muttongrass	0.20	4.13	\$9.53
Sagebrush, Mountain or Big	0.20	10.56	\$16.54
Saltbush, Four Wing	0.50	0.69	\$9.94
Winter Fat	0.50	1.27	\$23.36

\$272.56

	Totals Seed Mix	18.94	109.07	\$587.48
olication				
Description				Cost /Acre
Broadcast seeding [DMG]				\$272.56

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Herbicide - 2,4D @ 1.0 pt/ac	9.00	ACRE	\$4.13	\$37.14
Total Mulch Materials Cost/Acre				\$1,022.70

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Weed spray, truck, non-aquatic area, nox. [DMG]		\$83.26
	Total Mulch Application Cost/Acre	\$168.64

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$19,520.91

Reseeding Job Cost: \$5,856.27

Total Job Cost: \$25,377

Job Hours: 24.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	aul reclamation e	quipment to and	rom site	
e: St Jude Mine	Permi	t Action: 2024 U	pdate Permit/Jo	ob#: <u>M1978039HR</u>
PROJECT IDENTIFICAT	<u> TION</u>			
Task #: 011	State: C	Colorado	Abbreviation:	None
Date: 11/26/2024	County: S	an Miguel	Filename:	M039-011
User: LJW	_			
Agency or organizati	on name: DRMS	S		
EQUIPMENT TRANSPO	RT RIG COST			
			Shift basis:	1 par day
				1 per day CRG Data
Truck Tractor De	scription: GENI	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4,	DIESEL POWERED
			400 HP (2ND HALF, 2006)	
Truck Trailer De	scription: (NG GOOSENECK, DROP DEC	•
		TF	RAILER (25T, 50T, AND 100T	()
Cost Breakdown:				
		A	T =	
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	
Ownership Cost/Hour:		\$22.18	\$23.94	
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65	
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$0.00

\$59.44

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D9T - 9SU	66.13	\$271.95	\$125.64	1	\$397.59	\$125.64	\$250.00
CAT 924H	12.69	\$26.01	\$59.44	1	\$85.45	\$59.44	\$250.00
Drill/Broadcast	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
(Bowie LD-90)							
Cat 324D L 9'-8"	27.33	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
Stick							

\$23.53

\$122.78

\$23.53

\$125.64

Subtotals: \$1,074.13 \$426.74 \$1,250.00

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.	\$13.77	1	\$13.77	\$13.77

Subtotals:	\$13 <i>7</i> 7	\$13 <i>7</i> 7

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

NATURITA

miles

40.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	1.50	NA
Unloading Time (Hours):	1.50	NA
Subtotals:	5.00	2.00

JOB TIME AND COST

Total job cost: 10.00 Hours

Total job cost: \$11,974