

COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

August 17, 2018

Mr. David Mosch Mosch Exploration & Mining, LLC P.O. Box 1484 Idaho Springs, CO 80452

Re: Poorman Mine, Permit No. M-1982-058, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Mosch:

On August 17, 2018 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$4,803.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$4,703.00.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me such that I may send you the applicable form.

If you have any questions, please contact me at (303)866-3567 x8116.

Sincerely,

C.

Michael A. Cunningham Senior Environmental Protection Specialist

Enclosure: 2018 Bond Calculation



COST SUMMARY WORK

Poormar	Mine	Pe	rmit Action:	2018 Bond Calculation	Permit/Job	#: <u>M1982058</u>
ROJECT	IDENTIFICA	<u>FION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	8/16/2018	County:	Clear Creek	ζ.	Filename:	M058-000
User:	MAC				-	

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost			
001	Structure Demolition and Removal	DEMOLISH	1	0.00	\$2,464.71			
002	Grading/Scarification of Waste Rock Pile	EXCAVATE	1	2.81	\$238.00			
002A	Replace Topsoil	EXCAVATE	1	2.14	\$181.00			
003	Revegetation of Affected Areas	REVEGE	1	8.00	\$231.00			
004	Equipment Mobilization	MOBILIZE	1	4.12	\$930.00			
	SUBTOTALS: 17.07							

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$81.71
Performance bond:	1.05	Total =	\$42.47
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$404.50
		TOTAL O & P =	\$528.68
		CONTRACT AMOUNT (direct + O & P) = $($	\$4,573.68

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 \$228.68
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$757.36
TOTAL BO	\$4,802.36		
TOTAL BO	<u>\$4,803.00</u>		

DEMOLITION WORK

]	Task description:	Structure D	emolition and H	Removal		
Site:	Poorman Mine		Permit Action:	2018 Bond Calculation	Permit/Jo	bb#: <u>M1982058</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>N</u>				
Task #	± 001	State:	Colorado	Abbr	eviation:	None
Date	: 8/16/2018	County:	Clear Creek	F	ilename:	M058-001
User	:: MAC					
	Agency or organiza	tion name:	DRMS			

UNIT COSTS

Location adjustment: 101.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Metal Shed	8' x 10' x 8'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 60 mile haul	640.00	CF	\$0.57	\$363.52
Rail line	84'	Railroad track - Ties and track	84.00	LF	\$9.19	\$771.96
School Bus	8' x 23'	Excavate and load tank onto trailer, non-leaking - 9,000 gal. to 12,000 gal.	1.00	EA	\$1,300.00	\$1,300.00

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	0.00	(unadjusted):	\$2,435.48	location):	\$2,464.71

HYDRAULIC EXCAVATOR WORK

Task description:	Grading/Scarification	of Waste Rock Pile		
e: Poorman Mine	Permit A	Action: 2018 Bond Ca	lculation Per	mit/Job#: <u>M1982058</u>
PROJECT IDENTIFI	CATION			
Task #: 002 Date: 8/16/2018 User: MAC		orado ar Creek	Abbrevia	
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine:	Cat 311D LRR 8'- 6"Stick		Horsepower:	80
Attachment 1:	ROPS Cab		Veight (MT): Shift Basis: Data Source:	12.74 1 per day (CRG)
Cost Breakdown:				
Ownership Cost/	Hour: \$25.09	Utilization % NA		
Operating Cost/		100	_	
Operator Cost/ Total Unit Cost/		NA	_	
Total Fleet Cost				
	600 CC	CY Swell facto	or: <u>1.000</u>	_
Source of	of estimated volume:Di	vision of Reclamation, 1	Mining & Safety	
Source of est	timated swell factor: Ca	t Handbook		
HOURLY PRODUCT	<u>TION</u>			
Excavator Cycle Time (lo	ad bucket, swing loaded, c	lump bucket, swing emp	<u>oty):</u>	
	Basic Secondary Job Condition	Job Condition Descripti		
	Secondary 500 Condition	Cycle Time Val		minutes
Load Bucket Capacity				
Detal Course			Bucket Size Class	Medium
Rated Capacity Bucket Fill Facto		CY (heaped) asted rock - well blasted	1 (80 - 95%) 0.87	5
Adjusted Capacity		CY		<u> </u>
Job Condition Correction	Factors	Site	Altitude: <u>10100</u> fe	et
		Source		
Altitude Adj:		AT HB)		
Job Efficiency: Net Correction:		shift/day) ltiplier		
-		•	LCY/Hour	
	djusted Hourly Unit Produ djusted Hourly Unit Produ		LCY/Hour	
	ljusted Hourly Fleet Produ		LCY/Hour	
JOB TIME AND COS	<u>ST</u>			
Fleet size:	1 Excavator	Total job time:	2.82	Hours
Unit cost: \$0.	793 /LCY	Total job cost:	\$238	
φ0.		1000 Job Cost.	φ 4 50	

HYDRAULIC EXCAVATOR WORK

Task description:	Replace Topsoil				
e: Poorman Mine	Peri	nit Action:	2018 Bond Calcul	lation Permit/Jo	ob#: <u>M1982058</u>
PROJECT IDENTIFI	CATION				
Task #: 002A Date: 8/16/2018 User: MAC	County:	Colorado Clear Creel	k	Abbreviation: Filename:	None M058-002A
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	NT COST				
Basic Machine:	Cat 311D LRR 8'- 6"Stick		Ног	rsepower:	80
Attachment 1:	ROPS Cab		Sh		12.74 per day (CRG)
Cost Breakdown:					
Ownership Cost/	Hour: \$25.0	a	Utilization % NA		
Operating Cost/			100		
Operator Cost/			NA		
Total Unit Cost/					
Total Fleet Cost/	Hour: \$84.4	6			
MATERIAL QUANT	<u>ITIES</u>				
Initial volume: 2	.68	CCY	Swell factor:	1.000	
Loose volume: 2	.68	LCY			
HOURLY PRODUCT	<u>ad bucket, swing load</u> B	asic Job Cor	ndition Description:	AVERAGE	
	Secondary Job Cond		-		
Load Bucket Capacity			Cycle Time Value:	0.242	minutes
<u></u>			Bu	cket Size Class: N	Iedium
Rated Capacity	y: 0.68	LCY (hea	ped)		
Bucket Fill Facto			rth Mixture (100%-	105%) 1.025	<u> </u>
Adjusted Capacity	y: 0.70	LCY			
Job Condition Correction	Factors		Site Al	titude: <u>10100</u> feet	
A 7.*. 1 A 1*	0.97	Source	`		
Altitude Adj: Job Efficiency:	0.87 0.83	(CAT HB (1 shift/day			
Net Correction:	0.83	multiplier	<u> </u>		
-		-			
A	djusted Hourly Unit P djusted Hourly Unit P ljusted Hourly Fleet P	roduction:	124.79	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS	<u>ST</u>				
Fleet size:	1 Excavator	r Tot	tal job time:	2.15	Hours
Unit cost: \$0.	677 /LCY		Total job cost:	\$181	
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REVEGETATION WORK

Task description:		Revegetation of Affected Areas					
te: Poorma	n Mine	Per	mit Action:	2018 Bond Calculation	Permit/Job#	t: <u>M1982058</u>	
PROJECT	<u> IDENTIFI(</u>	CATION					
Task #:	003	State:	Colorado		Abbreviation:	None	
Date:	8/16/2018	County:	Clear Creek	k	Filename:	M058-003	
User:	MAC				_		

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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alsike Clover	0.75	11.71	\$2.94
Orchardgrass - Elsie	1.50	18.60	\$5.22
Rye, Perennial Tetraploid - Aubisque	3.00	17.01	\$5.16
Mountain Brome - Bromar	2.25	3.62	\$10.01
Kentucky Bluegrass - Ginger	2.25	111.05	\$6.05
Rye, Winter - VNS	3.00	1.24	\$1.11
Totals Seed Mix	12.75	163.22	\$30.50

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Aspen	40	Tubling, 3 cu. in. container (MEANS)	\$1.07	\$0.00	\$42.80
Pine, Lodgepole	40	Tubling, 3 cu. in. container (MEANS)	\$1.17	\$0.00	\$46.80
		Tota	ls Nursery Stoc	ek Cost / Acre	\$89.60

JOB TIME AND COST

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$193.66			
Reseeding Job Cost:	\$37.22			
Total Job Cost:	\$231			
Job Hours:	8.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Lqt	ipment Mobiliza						
e: Poorman Mine		Permit	Action: 2018	Bond Calc	culation I	Permit/Job	#: <u>M1</u>	982058
PROJECT IDEN	TIFICATI	<u>ON</u>						
Task #: 004 Date: 8/16/ User: MAC	/2018 C		olorado ear Creek			eviation: lename:	None M058-	004
Agency or	organization	name: DRMS						
EQUIPMENT TI	RANSPOR'	<u>T RIG COST</u>						
				(Shift ba Cost Data Sour		per day RG Data	
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,		DIESEL	POWERED,
	Trailer Desc	ription: G	ENERIC FOLD 1		SENECK, DR (25T, 50T, AN		K EQUII	PMENT
Cost Breakdown:		·	1	RAILER	(25T, 50T, AN		K EQUII	PMENT
Cost Breakdown: Available Rig Ca	pacities	o-25 Tons \$16.63		TRAILER			K EQUII	PMENT
Cost Breakdown:	pacities Cost/Hour:	0-25 Tons	7 26-50 Tons	TRAILER 51 +	(25T, 50T, AN		K EQUII	PMENT
Cost Breakdown: Available Rig Ca Ownership (Operating (pacities Cost/Hour:	0-25 Tons \$16.63	7 26-50 Tons \$18.37	51 +	(25T, 50T, AN - Tons 22.33		K EQUII	PMENT
<u>Cost Breakdown:</u> Available Rig Ca Ownership (Operating (Operator (pacities Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	51 + \$2 \$5 \$2 \$2	(25T, 50T, AN - Tons 22.33 50.07		K EQUII	PMENT
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	S1+ \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	(25T, 50T, AN - Tons 22.33 50.07 27.66		K EQUII	PMENT
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	S1+ \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	(25T, 50T, AN - Tons 22.33 50.07 27.66 25.39		K EQUII	PMENT
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 IENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	51+ \$2 \$5 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	(25T, 50T, AN - Tons 22.33 50.07 27.66 25.39 25.45			PMENT DOT Permit
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: E EQUIPN Weight/ Unit	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	S1+ \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	(25T, 50T, AN - Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	<u>ND 100T)</u>	Гrip	
Cost Breakdown: Available Rig Ca Ownership (Operating (Operator (Helper (Total Unit (NON ROADABL Machine	pacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: EEQUIPN Weight/	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 IENT: Owner ship	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	FRAILER 51+ \$2 \$5 \$2 \$2 \$1 \$1 Fleet	(25T, 50T, AN - Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip	ND 100T)	Гrip	DOT Permit

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:	DENVER 39.00 50.00	miles
Total Non-Roadable Mob/Demob Cost *	\$929.55	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.78	0.78
Return Time (Hours):	0.78	0.78
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.06	1.56

JOB TIME AND COST

Total job time: **4.12** Hours

Total job cost: **\$930**