

1313 Sherman Street, Room 215 Denver, CO 80203

March 9, 2015

Kevin Larimore Revel Mining LLC 670 Oak Street Del Norte, CO 81132

Re: Rebel Mine Project, NOI File No. P-2015-004, Technical Review and Reclamation Cost Estimate

Dear Mr. Larimore,

The Division has reviewed the NOI and has identified a few items to be clarified or confirmed before the NOI can be considered for approval.

Bond: The initial NOI submittal included a \$2,000.00 financial warranty ("bond") in the form of a corporate surety, accompanied by warranty form "One Site Prospecting Financial Warranty on Bureau of Management Land." Our warranty specialist, Barbara Coria, has reviewed it and has communicated to you regarding its acceptability. If Ms. Coria has informed you of the bond's sufficiency then no further bonding documents need to be provided. If you have been informed that there is a deficiency in the bond, please provide the items specified by Ms. Coria. Final approval of your NOI will require that the bond is sufficient.

Plan: Please review these paragraphs and respond to the Division promptly if you notice any errors or omissions in our interpretation of your plan. If no further information is provided by you, the proposed plan for prospecting and reclamation will be approved as they exist. Please try to respond within 30 days of this letter.

This site is located on land managed by the US Forest Service (USFS) so all aspects of your project plan must comply with their requirements. All correspondence from this Division will also be copied to the USFS.

The proposed prospecting plan of re-opening an old collapsed portal for purposes of sampling underground is presented clearly. The site is accessible via existing dirt road and trail up to the portal. A small mine dump is located immediately adjacent to the portal. There are no other underground openings or structures associated with the old mine.



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Your plan is to muck out the caved material, presumably by excavating back to competent ground, and install a (lockable) steel door. The door will be permanent, per the wishes of the USFS, and it will provide the secure, long-term closure that is required for this portal after termination of your project. If this interpretation is in error please provide more information.

One of the interesting factors is that there is a spring in the mine workings, and an existing lowflow seep outside the portal location. This water is clean and has historically been captured and piped to a small stock tank or trough on the site for grazing animals. The USFS has stated that there is a water right on the spring, which is used by the range permittee. As such, your operation cannot degrade the quality or diminish the flow of the water, either during or after the project.

Water sampling should begin as soon as the site is accessible, and continue quarterly. Please provide copies of the water analyses to the USFS and the Division promptly after receiving them from the lab.

The plan is to use only hand tools underground to collect ore samples. To avoid degrading water quality, the water will be captured at the spring, conveyed by pipe to an upper settling pond, conveyed by pipe to a lower settling pond, and finally conveyed outside the mine to a stock tank or trough. Documents from the USFS indicate that Rebel Mining will be responsible for ensuring the placement of the piping, and for the stock tank.

No drilling is proposed in the plan. It is understood that the site has been disturbed by pre-law mining activity.

There is no available topsoil to salvage, although the muck at the mine portal that is removed while clearing the portal will be used to reclaim the trail up to the mine. Since the USFS requires revegetation of portions of the disturbed area, the NOI needs a seeding plan. The NOI leaves blank the space for details of the seed mix, but acknowledges that a seed mix will be determined at a future date. Since the Division must ensure adequate bonding for reclaiming the project, including the seeding, a "preliminary" seed mix will be used the cost estimate to arrive at a bond figure. This is not to be construed to be the final, approved seed mix.

The Division has estimated the reclamation costs for this project, based on your plan, with figures representing the point of maximum disturbance. This consists of the portal being mucked out and ready for the steel door to be installed. This scenario assumes that there will be a small amount of debris to remove and dispose of, installation of piping and steel stock tank for the spring water, some earthen material to move on the pad and onto the trail, minimal grading to contour the slopes around the portal to 2.5:1, and the seeding cost. A skid-steer for the

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earthwork and welding truck for the portal door have been mobilized from Monte Vista. Seeding will be by manually broadcasting the seed. Please see the enclosed reclamation cost packet.

The total reclamation cost for this project has been estimated to be \$1999.31. You have already provided a bond in the amount of \$2,000.00, so the present bond is considered sufficient and no further bonding is required. If you do not agree with these figures, please respond within 30 days of this letter. Unless sufficient information is provided by you to allow the Division to revise this figure, this will be the required bond amount.

All written responses, including the additional financial warranty check and forms, must be mailed to our Denver office (see address at the bottom of page one).

Please be reminded that until the Division has notified you that the financial warranty is accepted, no prospecting activity may occur.

If you have any questions, please contact me by telephone: 303-866-3567 ext. 8175, or 970-247-5193; or by email: <u>bob.oswald@state.co.us</u>.

Sincerely,

Bob James

Bob Oswald Environmental Protection Specialist

Encl: Reclamation cost packet (3/12/15)

EC: Russ Means, DRMS Grand Junction Barbara Coria, DRMS Denver Patrick Moran, USFS Monte Vista

(c:\15-03 docs\P2015004 Adeq & estd FW/rco)

COST SUMMARY WORK

Task description: Reclamation costs											
Site: _	Rebel Mine P	ermit Action: <u>N</u>	lew NOI	Permit	/Job#: P2015004						
<u>P</u>	PROJECT IDENTIFICATION										
	Task #:000State:ColoradoDate:3/13/2015County:SaguacheUser:RCOState:Saguache			Abbreviation: Filename:							
	Agency or organization name:DRMS										
<u>T.</u>	ASK LIST (DIRECT COSTS)										
Task		Form	Fleet	Task	a						
	Description	Used	Size	Hours	Cost						
001	Remove debris, and install water line with tank	DEMOLISH	1	4.00	\$501.87						
002	Close portal	MINESEAL	1	4.00	\$120.00						
003	Revegetate road and pad	REVEGE	1	4.00	\$222.00						
004	Contour portal and pad area, waterbars on road	LOADER	1	5.12	\$321.00						
005	Haul reclamation equipment to and from site	MOBILIZE	1	4.00	\$519.00						
	<u>SUBTOTALS:</u> 21.12 \$1,684										

INDIRECT COSTS

OVERHEAD AND PROFIT:

2.02%	Total =	\$34.02
1.05%	Total =	\$17.68
0.00 hrs	Total =	\$0.00
10.00%	Total =	\$168.40
	TOTAL O & P =	\$220.10
	CONTRACT AMOUNT (direct + O & P) = $($	\$1,904.10
	1.05% 0.00 hrs	1.05% Total = 0.00 hrs Total =

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00	Total = Total =	0.00 \$0.00 \$95.21
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$315.31
TOTAL B	\$1,999.31		

DEMOLITION WORK

Task description: Remove debris, and install water line with tank								
Site: Rebel Mine		Permit Action: New	NOI	F	ermit/Job#: _	P2015004		
PROJECT IDENTIFICATION								
Task #: 001 State: Colorado Abbreviation: None Date: 3/12/2015 County: Saguache Filename: P004-001 User: RCO Agency or organization name: DRMS DRMS								
UNIT COSTS Location adjustment: 89.00 %								
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost		
Misc debris to remove	3 CY	Loading and 2 mile haul, no salvage - Hand loading	3.00	CY	\$41.90	\$125.70		
Purchase and install piping	1" x 100'	USER PROVIDED ITEM	8.00	Roll	\$29.90	\$239.20		
Purchase and install tank	2' x 6'	USER PROVIDED ITEM	1.00	EA	\$199.00	\$199.00		

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	4.00	(unadjusted):	\$563.90	location):	\$501.87

Notes:

- 1. Task assumes a minimal amount of debris to be removed from site.
- 2. Task also includes the purchase and installation of a poly tube to convey water from the mine spring to the sediment sumps and finally to the surface. Operator will purchase and install a stock tank per USFS requirements, if needed.
- 3. Costs are approximate and represent general types of materials that might be required by USFS for continuity of water right during and after project.

SAFEGUARDING UNDERGROUND OPENINGS

	Task description	on: Close	portal				s	
Site:	Rebel Mine		Permit Action: N	ew NOI	Pe	ermit/Job#: _	P2015004	
PROJE	CT IDENTI	FICATION						
Task # Date User	: 3/12/2015 : RCO		State: Colorado ounty: Saguache me: DRMS		Abbreviat Filena			
<u>UNIT (</u>	COSTS							
Opening	Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost	
Backfill p	ortal	6' x 6' x 30'	Adit closure - backfilling (per cu. yd.)	40.00	CY	\$3.00	\$120.00	
	Job H	ours:	1.00		То	tal Cost:	\$120.00	

Note: Closure plan described in NOI specifies a lockable steel door to secure the portal. This cost estimate includes only backfilling. If the steel door is already installed, but not yet approved by the USFS, then this closure method can be used. Available earthen materials are present onsite for performing this task.

x.

REVEGETATION WORK

Task description: Revegetate road	and pad					
Rebel Mine Per	mit Action: <u>Nev</u>	V NOI		Permit/Job#	: P2015004	
PROJECT IDENTIFICATION						
Task #: 003 State:	Colorado		1	Abbreviation:	None	
Date: 3/13/2015 County:	Date:3/13/2015County:SaguacheFilename:User:RCO					
Agency or organization name:	RMS					
FERTILIZING						
Materials						
Description	Units / Acre	Unit	Cost	/ Unit	Cost /Acre	
			\$		\$	
			Tota	al Fertilizer Materials		
				Cost/Acre	\$0.00	
Application				r		
Description					Cost /Acre	
					\$	
	Total	Fertilizer .	Application	Cost/Acre	\$0.00	
<u> </u>						
Description					Cost /Acre	
Hand raking (MEANS 32 91 13.23 0250)					\$1,219.68	
Weed control spraying (MEANS 31 31 16.13 3100)						
		Т	otal Tilling	Cost/Acre	\$1,364.88	
SEEDING						
Seed Mix			Rate –			

Seed Mix	PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alpine Fescue	1.00	29.84	\$16.55
Blue Grama - Native	1.00	16.32	\$10.35
Lupine, Silver	0.10	0.06	\$6.85
Western Wheatgrass - Arriba	3.00	7.58	\$11.04
Sagebrush, Mountain or Big	0.20	10.56	\$6.74
Flax, Lewis Blue	1.00	6.63	\$16.52
Winter Fat	0.30	0.76	\$9.81
Totals Seed Mix	6.60	71.76	\$77.85

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$261.28
	Total Soud Application Cont/Ann	
	Total Seed Application Cost/Acre	\$261.28

MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: Estimated Failure Rate:		Cost /Acre: Cost /Acre*:	
*Selected Replanting Work Items:	TILLING, SEEDING		<i>•••••••••••••••••••••••••••••••••••••</i>
Initial Job Cost: \$170.40			

Reseeding Job Cost:\$51.12Total Job Cost:\$222Job Hours:4.00

Notes:

(1) This task accounts for the seeding of 0.10 acre of disturbance, on the pad and trail road up to the portal. Seed will be manually broadcast, and raked in or dragged to incorporate the seed. Task also includes weed control on the disturbed ground, as needed.

(2) Important: This is not the approved seed mix. This seed mix is for purposes of establishing an approximate revegetation cost for setting the bond amount for this project. The operator will obtain an approved seed mix from the land management agency (USFS) and will perform the seeding task at the conclusion of the earthwork. The final seeding will include species, application method, and seeding rate in PLS lbs/acre.

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Contour portal and pad ar	ea, waterbars on r	oad	
Rebel Mine	Permit Action	: New NOI	Permit/Job#	: P2015004
PROJECT IDENTIFI	CATION			
Task #: 004	State: Colorado	`	Abbreviation:	None
Date: $3/12/2015$	County: Saguach		Abbreviation. Filename:	P004-004
User: RCO		<u>.</u>		1004-004
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
Basic Machine:	CAT 246C		Horsepower:	73
	ROPS Cab		-	per day
				CRG)
Cost Breakdown:				
		Utilization %		
Ownership Cost/H		NA	_	
Operating Cost/H		100	-	
Operator Cost/H	lour: \$37.13	NA	_	
Total Unit Cost/H	lour: \$62.64		_	
Total Fleet Cost/H	Hour: \$62.64	-		
MATERIAL QUANT	ITIES			
Initial volume: 20	0 CCY	Swell facto	or: 1.125	
Loose volume:	225 LCY			
Courses of	fortimeted and have been as Division	- CD - la stire)		
		n of Reclamation, N	lining & Safety	
Source of esti	imated swell factor: <u>Cat Har</u>	IDDOOK		
HOURLY PRODUCT	ION			
HUUKLIIKODUUI	ION			
Loader Cycle Time:	Unadjusted Basic Cycle Time	e (load, dump, mane	euver): 0.425	minutes
Cycle Time Factor			Factor (min.)	Source
Material	J.	applicable 0.00	0.000	(Cat HB)
Stockpile		applicable 0.00	0.000	(Cat HB)
Truck Ownership			0.000	(Cat HB)
Operation	Inconsistent operation 0.04	4	0.040	(Cat HB)
Dump Target	t: No adjustment - factor not	applicable 0.00	0.000	(Cat HB)
	Net C	ycle Time Adjustme		minutes
	Adjus	sted Basic Cycle Tir		minutes
Rolling Resistance - Road	Conditions			
Haul:	Rutted dirt, little maintenanc	e no water 1" tire	penetration 4.0	
Return:	Rutted dirt, little maintenance			
		-,	pensiumon fiv	
Haul and Return Time				

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	50	0.00	4.00	4.00	0.0317	(Cat HB)
Return Route:	50	0.00	4.00	4.00	0.0317	(Cat HB)

			Total Travel Ti Total Cycle Ti		minutes minutes
Load Bucket Capacity					
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	0.53 0.925 0.49	LCY (heape Loose mate LCY		" (90 - 95%) 0.925	
Job Condition Correction I Site Altitude: <u>9200</u> feet	<u>actors</u>				
Ad	0.95 0.83 0.79 justed Hourly Unit 1 justed Hourly Unit 1 justed Hourly Fleet 1	Production:	55.66 43.89 43.89	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	<u> </u>	Т	Total job time:	5.13	Hours
Unit cost:\$1.42	27 /LCY	5	Fotal job cost:	\$321	

Note: Task assumes that after backfilling portal and adit, skid-steer will be used to recontour slope around portal, shape pad area, and install waterbars on trail up to pad, as needed.

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	on: <u>Ha</u>	ul reclamation eq		II OIII SILE			
e: Rebel Mine		Permit /	Action: <u>New N</u>	IOI	Pe	ermit/Job#:	P2015004
PROJECT I	DENTIFICAT	ION					
Task #: 0	05	State: Co	olorado		Abbi	reviation:	None
	/13/2015 CO	County: Sa	aguache		F	Filename:	P004-005
Agen	cy or organizatio	n name:DRMS					
EQUIPMEN	T TRANSPOR	RT RIG COST					
					Shift ba Cost Data Sou		l per day CRG Data
Tr	uck Tractor Desc	ription: GEN	ERIC ON-HIGH		UCK TRACTO (2ND HALF,		DIESEL POWERED,
Ti	uck Trailer Desc	ription: GENE	RIC FOLDING	GOOSEN		DECK EQU	JIPMENT TRAILER
Cost Breakdow	<u>n:</u>		1911 - 19 - 19 - 19 - 19 - 19 - 19 - 19	(231	,,	,01)	
Available Rig	Capacities	0-25 Tons	26-50 Tons	51-	+ Tons		
	nip Cost/Hour:	\$16.63	\$18.37		22.33		
Operat	ng Cost/Hour:	\$44.38	\$46.13				
Opera	tor Cost/Hour:	\$27.66	\$27.66				
Opera Hel	per Cost/Hour:	\$0.00	\$25.39	\$:			
Ópera Hel				\$: \$:	27.66		
Opera Hel Total U	per Cost/Hour:	\$0.00 \$88.67	\$25.39	\$: \$:	27.66 25.39		
Opera Hel Total U	per Cost/Hour: nit Cost/Hour: ABLE EQUIP	\$0.00 \$88.67 MENT:	\$25.39 \$117.55	\$ \$ \$1	27.66 25.39 25.45	Return T	Tip DOT Perm
Opera Hel Total U NON ROAD	Der Cost/Hour: nit Cost/Hour: ABLE EQUIP Weight/ Unit	\$0.00 \$88.67	\$25.39	\$: \$:	27.66 25.39 25.45 Haul Trip Cost/hr/	Return T Cost/hr/	fleet Cost/ fleet
Opera Hel Total U NON ROAD Machine	Der Cost/Hour: nit Cost/Hour: ABLE EQUIP Weight/	\$0.00 \$88.67 MENT: Owner ship	\$25.39 \$117.55 Haul Rig	\$ \$ \$1 Fleet	27.66 25.39 25.45 Haul Trip	Return T Cost/hr/ \$88.67	

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$98.22	1	\$98.22	\$98.22
		Subtotals:	\$98.22	\$98.22

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	MONTE VISTA	
Total one-way travel distance:	30.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$371.78	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$147.33	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.75	0.75
Return Time (Hours):	0.75	0.75
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.00	1.50

JOB TIME AND COST

Total job time:4.00HoursTotal job cost:\$519

Note: Equipment includes skid-steer on flat bed trailer, pulled by 1-ton pickup with crew. Truck has portable welding unit for installing steel portal door.