

July 15, 2025

Micheal Murphy Land Survey Advisors, LLC 296 Timber Lakes Est Heber City, UT 84032

Re: Crystal Vitoria Mine, File No. P-2025-004, Notice of Intent to Conduct Prospecting Operations, Notice of Deficiency- Request for Financial and Performance Warranties

Dear Mr. Murphy,

The Division of Reclamation, Mining and Safety (Division) has completed the review of the above listed Notice of Intent to Conduct Prospecting (NOI) and found that the submitted application materials meets the minimum requirements of the Act and Rules and Regulations.

Division Staff conducted a Reclamation Cost Estimate based on the details of your application. Staff calculations determined that the total cost to achieve reclamation of the project to be \$23,792.00 (Cost Estimation Worksheets Enclosed). To date, the Division has received the minimum bond required for filing of \$2,000.00. Please provide the Division with either a replacement Financial Warranty for the full amount or the \$21,792.00 difference along with the appropriate Financial Warranty Form. In addition to the Financial Warranty, please execute and submit the Performance Warranty (Enclosed) and Affidavit of Authority (enclosed). Once the Financial and Performance Warranties are received and accepted by the Division your Notice can be accepted.

Please note, the Decision Date for your application is Friday July 18, 2025. To allow sufficient time for the submittal and acceptance of the Financial and Performance Warranties, please submit a written two week Decision Date Extension Request on or before Friday July 18, 2025. If you have any questions please feel free to contact me. Direct contact can be made at the Division's Grand Junction Field Office, by phone at 303-866-3567 Ext. 8187 or by email at lucas.west@state.co.us.

Sincerely,

**Lucas West** 

Environmental Protection Specialist Division of Reclamation, Mining and Safety

CC: Travis Marshall, DRMS



EC: Cullen LaPointe, USFS

# COST SUMMARY WORK

Task description:	Cost Summary				
te: Crystal Victoria Mine	Permit Action:	New App		Permit/Job#	#: _P2025004
PROJECT IDENTIFIC	CATION				
Task #:000	State: Colorado			_	None
Date: 7/14/2025 User: LJW	County: Chaffee			Filename: _	P004-000
Agency or organ	ization name: DRMS				
					<del></del>
TASK LIST (DIRECT	<u>COSTS)</u>				
sk Description		Form Used	Fleet Size	Task Hours	Cost
Replace Portal Gate		MINESEAL	1	16.00	\$5,444
Plug and Abandon M	Ionitoring Holes	BOREHOLE	1	8.00	\$590
2a Seal Underground ho		BOREHOLE	1	24.00	\$3,146
Remove and dispose		DEMOLISH	1	16.00	\$613
Backfill Mud Pit Are		EXCAVATE	1	0.55	\$78
Mob/Demob		MOBILIZE	1	19.11	\$7,742
INDIRECT COSTS					
OVERHEAD AND PROF	<u>IT:</u>				
Liability insura	nce: 2.02			Total = \$35	56
Performance be				Total = \$18	
Job superintend					241
Pr	ofit: 10.00				761
	CONTE				543
	CONTI	RACT AMOUNT	(direct +	$O \& P = _{\$22}$	2,156
LEGAL - ENGINEERING	G - PROJECT MANAGEMENT:	:			
Financial warranty pr	rocessing (legal/related costs):	\$0		Total = \$0	
	nd/or contract/bid preparation:	0.00	_	Total = $\$0$	
Reclamation mana	gement and/or administration:	5.00	_	\$1,	108
	CONTINGENCY:	3.00		Total =\$52	28
		TOTAL IN	NDIRECT	$T COST = $ _\$6,	179
	TOTAL BO	ND AMOUNT (d	liract + in	ndirect) = \$23	R 702

# SAFEGUARDING UNDERGROUND OPENINGS

Site: C	rystal Victoria Mine		Permit Action:	New App	Permit	/Job#: <u>P2025004</u>
ROJECT	<u> IDENTIFICATIO</u>	N				
Task #:	001	State:	Colorado		Abbreviation:	None
Date:	7/14/2025	County:	Chaffee	·	Filename:	P004-001
	LJW					

# **UNIT COSTS**

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Gated Adit Closure	8' x 12'	Adit closure - grate with bat access, ladder type (per opening)	1.00	EA	\$5,443.82	\$5,443.82

# **BOREHOLE SEALING WORK**

Site: C	rystal Victoria Mine	Permit Action: New Ap	Permit/Job#: P2025004
ROJECT	TIDENTIFICATIO	<u>)N</u>	
Task #:	002	State: Colorado	Abbreviation: None
Date:	7/14/2025	County: Chaffee	Filename: P004-002
User:	LJW		

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal 3 Monitoring Holes	Portland cement grout - 2 in. (labor, equip, materials)	2	25	75.00	LF	\$7.87	\$589.88

 Job Hours:
 8.00
 Total Cost:
 \$590.00

# **BOREHOLE SEALING WORK**

Tas	sk description:	Seal Underg	round hole if it	makes water		
Site: C	rystal Victoria Mine		Permit Action:	New App	Permit	/Job#: <u>P2025004</u>
PROJECT	DENTIFICATION	<u>N</u>				
Task #: Date: User:	002A 7/14/2025 LJW	State: County:	Colorado Chaffee		Abbreviation: Filename:	None P004-002a
	Agency or organiza	tion name:	DRMS			

# **UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Underground Exploration Hole	Portland cement grout - 2 in. (labor, equip, materials)	4	400	400.00	LF	\$7.87	\$3,146.00

 Job Hours:
 24.00
 Total Cost:
 \$3,146.00

#### **DEMOLITION WORK**

ite: <u>C</u>	rystal Victoria Min	e Permit Action:	New App	Permit	/Job#: <u>P2025004</u>
OJECT	TIDENTIFICATI	<u>ON</u>			
Task #:	003	State: Colorado		Abbreviation:	None
Date:	7/14/2025	County: Chaffee	_	Filename:	P004-003
User:	LJW	<u> </u>			

**Demolition Menu** 

Selection

Loading only, open

areas (unconfined) -Track loader

12-18 CY truck - 30 mph average speed Dump fees - Building

Hauling only, per mile,

construction materials.

#### **UNIT COSTS**

**Structure or Item** 

Description

Lined Mud Pit, 25 x

Haul liner to dump

Dump Fees

**Dimensions** 

25' x 25' x 3'

25 x 25

NA

#### Unit **Total Cost** Unit Quantity Cost \$59.06 CY \$0.86

\$416.54

\$222.00

Location adjustment: 87.90 %

\$10.41

\$11.10

MI

CY

				<b>Total Cost</b>	
		Subtotal		(adjusted for	
Job Hours:	16.00	(unadjusted):	\$697.60	location):	\$613.19

69.00

40.00

20.00

# HYDRAULIC EXCAVATOR WORK

Task description:	Backfill Mud Pit A	Area			
e: <u>Crystal Victoria Min</u>	e Perm	nit Action:	New App	Pe	ermit/Job#: P2025004
PROJECT IDENTIFI	CATION				
Task #: 004 Date: 7/14/2025 User: LJW		Colorado Chaffee		Abbrevi	name: None P004-004
Agency or organ	nization name: <u>DRM</u>	1S			
HOURLY EQUIPME	NT COST				
Basic Machine:	Cat 311D LRR 8'-6"Stick		Н	lorsepower:	80
Attachment 1:	ROPS Cab			eight (MT): Shift Basis: Data Source:	12.74 1 per day (CRG)
Cost Breakdown:				_	
Ownership Cost/I Operating Cost/I Operator Cost/I Total Unit Cost/I	Hour: \$29.07 Hour: \$59.31 Hour: \$141.77	7	Utilization % NA 100 NA		
Total Fleet Cost/		7			
	<u>ITIES</u> 59 5 <b>9</b>	CCY LCY	Swell factor	: 1.000	
Source of est  HOURLY PRODUCT  Excavator Cycle Time (loans)		Cat Handl		<u>y):</u>	
			ndition Descriptio		
	Secondary Job Condi		Basic Description Cycle Time Valu		E minutes
Load Bucket Capacity				<u> </u>	
Rated Capacity Bucket Fill Factor Adjusted Capacity	r: 1.025	LCY (hea Rock - Ea		Bucket Size Clas %-105%) 1.025	ss: Medium
Job Condition Correction			Site A	Altitude: <u>11900</u> :	feet
Ac	0.72 djusted Hourly Unit Pr djusted Hourly Unit Pr	oduction:	172.81 124.79	LCY/Hour LCY/Hour	
JOB TIME AND COS	ljusted Hourly Fleet Pr S <u>T</u>	oduction:	124.79	LCY/Hour	
	Excavator	Tot	al job time:	0.55	Hours
Unit cost: \$1.	136 /LCY		Total job cost:	\$78	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: M	ob/Demob			
ite: Crystal Victoria Mine	Permi	t Action: New Ap	pp Permit/Jo	bb#: P2025004
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 005	State: C	Colorado	Abbreviation:	None
Date: 7/14/2025	County: C	Chaffee	Filename:	P004-005
User: LJW				
Agency or organization	on name: DRMS	S		
2 , 2				
<b>EQUIPMENT TRANSPO</b>	RT RIG COST			
			C1:A1:-	1
			Shift basis: Cost Data Source:	1 per day CRG Data
			Cost Data Source.	CKG Data
Truck Tractor Des	cription: GENI		AY TRUCK TRACTOR, 6X4,	DIESEL POWERED,
			400 HP (2ND HALF, 2006)	
Truck Trailer Des	cription: (		IG GOOSENECK, DROP DEC	`
	<u></u>	TR	AILER (25T, 50T, AND 100T	)
Cost Breakdown:				
	T			
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	

#### **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$75.46

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 311D LRR 8'- 6"Stick	14.01	\$53.39	\$75.46	1	\$128.85	\$75.46	\$250.00
ATLAS COPCO ROC D3-01,3.0 in.	0.00	\$166.34	\$75.46	1	\$241.80	\$75.46	\$250.00

\$143.20

\$159.59

Subtotals: \$370.65 \$150.92 \$500.00

# **ROADABLE EQUIPMENT:**

Machine Description Total Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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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:

LEADVILLE,
miles
45.00
mph

<u>Transportation Cycle Time:</u>

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.78	0.78
Return Time (Hours):	0.78	0.78
Loading Time (Hours):	4.00	NA
Unloading Time (Hours):	4.00	NA
Subtotals:	9.56	1.56

#### **JOB TIME AND COST**

Total job cost: 19.11 Hours

Total job cost: \$7,742



#### **DIVISION OF RECLAMATION, MINING AND SAFETY**

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



# ONE SITE PROSPECTING FINANCIAL WARRANTY ON BUREAU OF LAND MANAGEMENT LAND CHECK FOR DEPOSIT IN STATE TREASURY

Prospecting Financial Warranty No
Notice of Intent No
This form has been approved by the Mined Land Reclamation Board("Board") pursuant to section 34-32-117, C.R.S., of the Colorado Land Reclamation Act. Any alteration or modification of this form, without approval by the Board shall result in the financial warranty being invalid and result in the voiding of any permit issued in conjunction with such invalid financial warranty and subject the Prospector to cease and desist orders and civil penalties for prospecting without a permit pursuant to section 34-32-123, C.R.S., of the Colorado Land Reclamation Act.
KNOW ALL MEN BY THESE PRESENTS, that we (I),, of the
County of, in the State of, as Principal(s) are
(am) held hereby and firmly bound unto the State of Colorado, acting through the Mined Land Reclamation Board in
the sum of Dollars (\$) for the payment of which sum, well
and truly to be made, we (I) hereby bind ourselve(s), and each of our (my) legal representatives, executors,
administrators, successors and assigns, jointly and severally, firmly by these presents.
the following premises, indicated on the Notice of Intent filed with the Board, which is attached hereto and thereby incorporated by reference, to wit:
NOW, THEREFORE, the conditions of this obligation as such that if the above-bounded Principal shall, in conducting such prospecting operations, faithfully perform the provisions of the Notice of Intent to Conduct Prospecting Operations filed with the Board and the requirements of the plan to implement reclamation measures to reclaim all lands affected by the prospecting operations approved and modified by the Board, relating to the Colorado Land Reclamation Act as amended, and the Rules and Regulations adopted pursuant thereto; upon the Board making a finding that the lands described above have been satisfactorily reclaimed, and approving the Prospector's request for a financial warranty release on such lands, then this obligation shall be exonerated and discharged and become null and void; otherwise to remain in full force and effect.
If this financial warranty applies to National Forest System lands, and if this financial warranty is accepted by the United States Forest Service ("U.S.F.S.") as the bond required under 36 C.F.R. 228.13, then the Prospector, having requested that the Board and the U.S.F.S. accept this single financial warranty in lieu of the separate bonds which would otherwise be required by applicable law, hereby agrees that, notwithstanding any other provision hereof, or of law, this financial warranty shall remain in full force and effect until U.S.F.S. has advised the Board by written notice that the Prospector's obligations to U.S.F.S., for which this warranty is executed, have been satisfied, and until the financial warranty has been released by the Board.

If this financial warranty applies to lands under the jurisdiction of the State Board of Land Commissioners("Land Board"), and if this financial warranty, in whole or in part, is accepted by the Land Board as the bond required under its applicable law and procedures, then the Prospector, having requested that the State accept this financial warranty in lieu of the separate bonds which would otherwise be required by the Board or Division of Reclamation, Mining and Safety and by the Land Board, hereby agrees that, notwithstanding any other provision hereof, or of law, this financial warranty shall remain in full force and effect until the Board is notified in writing by the Land Board that the Prospector's obligations to the Land Board, for which this warranty is executed, have been satisfied, and until the financial warranty has been released by the Board.

If all or any part of the affected lands are under the jurisdiction of the Bureau of Land Management, United States Department of the Interior (the "BLM"), and if, at the request of the Prospector on this financial warranty, the BLM has, pursuant to 43 C.F.R., 3809.570, accepted this financial warranty then, notwithstanding any other provision of this financial warranty, or of law, the Prospector hereby agrees that this financial warranty shall not be released until the Board is advised in writing by the BLM that the Prospector's obligations to the BLM, for which this warranty is executed, have been satisfied, and until the financial warranty has been released by the Board. The Prospector agrees that this warranty shall also be redeemable by the Colorado State Director, U.S. Bureau of Land Management.

PROVIDED, however, the Warrantor shall not be liable under this financial warranty for an amount greater in the aggregate than the sum designated in the first paragraph hereof, unless increased by a later amendment, and shall not be liable as respects any obligation related to prospecting and reclamation operations performed after the effective date of a cancellation of this financial warranty pursuant to the terms of Section 34-32-117(5), C.R.S., as amended. This financial warranty shall remain in force and effect as respects all obligations for all prospecting and reclamation operations performed prior to the effective date of such cancellation unless the Principal files a substitute financial warranty which: 1) assumes liability for all obligations for all prospecting and reclamation operations performed during the effective date of this financial warranty; and 2) is acceptable to the Board; or unless the Board otherwise releases this financial warranty.

The Warrantor reserves the right to cancel this financial warranty, effective only upon an anniversary date, and only by giving written notice to that effect, mailed by Certified Mail, at least ninety (90) days prior to such anniversary date, addressed to both the Prospector at its address herein stated, and to the Board at the address herein stated. In the event of such cancellation, this financial warranty shall nevertheless remain in full force and effect as respects the reclamation of all areas disturbed prior to the effective date of such cancellation, unless and until the Prospector shall file a substitute financial warranty which: (1) assumes liability for all reclamation obligations which shall have arisen at any time while this financial warranty is in force; and (2) is accepted in writing by the Board.

Signed, sealed, and dated this	day of	·	
D: : 1		D 1	
Principal		Principal	
Ву		Ву	
Title		Title	
Mailing Address		Mailing Address	
APPROVED:			
Division Director		Date	

M:\min\share\BLM Bond Forms\One Site Prosp FW BLM Cash (10/9/07)



1313 Sherman Street, Room 215 Denver, CO 80203

#### **PERFORMANCE WARRANTY**

Permittee/Operator:		
Operation known as:		
Permit Number:		

This form is approved by the Colorado Mined Land Reclamation Board ("Board") pursuant to C.R.S. 34-32-117 of the Colorado Mined Land Reclamation Act and C.R.S. 34-32.5-117 of the Colorado Land Reclamation Act for the Extraction of Construction Materials.

All parties are on Notice from this Document that:

The above listed Operator provides this warranty to the Board in conjunction with a reclamation Permit to conduct the above described mining operation on certain lands in Colorado. The "Affected Lands" are described in the above listed reclamation Permit, and include any Permit Amendment(s) approved by the Division of Reclamation Mining and Safety ("Division").

The Colorado Mined Land Reclamation Act, C.R.S. 34-32-101 *et seq*. ("Hard Rock Act"), and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. 34-32.5-101 *et seq*. ("Construction Materials Act"), both require a permit issued by the Board to include a written promise by the Operator to comply with all requirements of the Hard Rock and Construction Materials Acts (referred to herein together as "Acts").

Through the terms and conditions of this performance warranty and Permit, the Operator agrees to be bound by all requirements of the Acts and all Mineral Rules and Regulations of the Board for Hard Rock, Metal, and Designated Mining Operations (2 C.C.R. 407-1) and all Mineral Rules and Regulations of the Board for the Extraction of Construction Materials (2 C.C.R. 407-4) (referred to herein together as "Rules").

The Operator hereby provides the Board warranties of performance pursuant to C.R.S. 34-32-117(2), (3), and (4)/C.R.S. 34-32.5-117(2), (3), and (4), and promises the Board it will comply with all applicable requirements of the Acts and Rules.

The Operator hereby promises the Board it will comply with all of the terms of the reclamation Permit, including any Permit Amendment(s) approved by the Division. This performance warranty obligation of the Operator shall continue until the Operator's liability is released by the Board.

The Operator promises to be responsible for reclamation costs up to the amount established by the Board and incorporates its financial warranty to this performance warranty. The Operator agrees to maintain a financial warranty (or warranties) in good standing for the reclamation costs for the entire life of the



Permit. The amount of the financial warranty shall be sufficient to assure the completion of reclamation of affected lands if the Division has to complete such reclamation due to forfeiture. If the Board determines the Operator is in default under this performance warranty and the Operator fails to cure such default, the Operator's financial warranty shall be subject to forfeiture pursuant to C.R.S. 34-32-118/34-32.5-118.

This performance warranty by the Operator is perpetual and shall remain in full force and effect until all obligations have been met and all associated financial warranty is released by the Board. Any release of liability in a succession of Operators shall comply with C.R.S. 34-32-119/34-32.5-119.

The provisions hereof shall bind and inure to the benefit of the parties hereto and their successors and assigns.

SIGNED, SEALED AND DATED this	day of		_, 20
	Operator:		
	Signature:		
	Name:		
	Title:		
NOTARIZATION O	F OPERATOR'S ACKNO	WLEDGEMENT	
STATE OF)			
COUNTY OF) ss.			
The foregoing instrument was acknowledged	before me thisday	of	, 20
by	(Day) as	(Month)	(Year)
of		(Title)	
(Operator)			
	NOTARY PUBL	IC	<u>.</u>
	My Commission 6	expires:	
APPROVED: State of Colorado Mined Land Reclamation Board Division of Reclamation, Mining and Safety			
By:	Date:		_
Division Director			

Rev. 7-2018



1313 Sherman Street, Room 215 Denver, CO 80203

# **Documentation of Legal Authority** to Execute Financial Warranty Documents

The Colorado Mined Land Reclamation Board ("Board") has adopted the attached Affidavit of Authority to Execute Financial Warranty Documents pursuant to the Mined Land Reclamation Act (C.R.S. § 34-32-101 et. seq.) and the Land Reclamation Act for the Extraction of Construction Materials (C.R.S. § 34-32.5-101 et. seq.). The Board and the Division of Reclamation Mining and Safety ("Division") have determined that, in order to carry out the financial warranty requirements set forth in C.R.S. §§ 34-32-117 and 34-32.5-117 with reasonable diligence, it is prudent to verify the legal authority of the individual signing all necessary documents.

Accordingly, you must provide confirmation of the legal authority of the individual signing all Financial Warranty Documents to the Division. You may do so either by submitting a resolution of the decision-making body of your company that authorizes an individual to sign the Financial Warranty Documents on the company's behalf, or by completing and notarizing the attached affidavit. The Division reserves the right to require the attached affidavit in all circumstances. Please note that if you are a sole proprietor who is executing documents on your own behalf, documentation of legal authority is unnecessary.



# Affidavit of Authority to Execute Financial Warranty Documents

	Before me this day, the undersigned _		[name of authorized person], in his/her	
capacity	y as	[title of authorized person]	("Affiant"), personally appeared and, being first duly	
sworn u	upon oath said:			
1.	This affidavit is being executed and su	bmitted on behalf of	[name of business	
	organization], a(n)	[legal form	of business organization, e.g., corporation,	
	partnership, limited liability company,	etc.], in good standing in the Sta	ate of Colorado (the "Company").	
2.	It is in the interest of the Company to o	execute certain financial warrant	ry documents associated with file number	
	(DRMS file number), which are required by the Colorado Mined Land Reclamation Board and			
	Division of Reclamation Mining and S	Safety pursuant to Colorado law	("Financial Warranty Documents").	
3.	Affiant is duly authorized to sign such the same.	Financial Warranty Documents	on behalf of the Company and to bind the Company to	
4.	Affiant is not prohibited or limited by Financial Warranty Documents.	the Company's governing docur	ments or by any applicable law from executing the	
5.	Affiant will inform the Division of Reauthorization to execute Financial Wat	•	thin thirty (30) days in the event that his/her my's behalf is terminated.	
Further	, Affiant sayeth not.			
Affian	nt's Name			
Signat	ture			
STATE	E OF	) ) ss.:		
COUN	TY OF	)		
	The foregoing instrument was acknowled			
			Notary Public	
		My Cor	nmission Expires	