



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

April 11, 2024

Alan Chiles
Rimrock Exploration & Development, Inc.
3010 Bookcliff Avenue
Grand Junction, CO 81504

**Re: Prince Albert Mine - File No. M-2011-040
Rimrock Exploration & Development, Inc.
Surety Increase (SI-1)**

Dear Alan Chiles:

On April 11, 2024 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$23,262.00, in accordance with Rule 4.2.1 of the Rules and Regulations. **This is an increase of \$8,174.44.**

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within 60 days from the date of this letter.

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 (8148), 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 June 10, 2024.

Bond Held:	\$15,087.56
Prior Liability:	\$15,087.56
Change in Liability:	\$8,174.44
Revised Liability:	\$23,262.00
Prior Permit Acreage:	8.30



Change in Permit Acreage:	0.00
Revised Permit Acreage:	
Prior Affected Acreage:	
Change in Affected Acreage:	
Revised Affected Acreage:	

If you have any questions, please contact me by telephone at (303) 866-3567 x 8188, or by email at Dustin.czapla@state.co.us.

Sincerely,



Dustin M. Czapla
Environmental Protection Specialist

March 4, 2024

Alan Chiles
Rimrock Exploration & Development, Inc.
3010 Bookcliff Avenue
Grand Junction, CO 81504



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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Prince Albert Mine, Permit # M-2011-040, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$23,262.00. This is an increase of \$8,174.44 over the \$15,087.56 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Dustin Czapla'.

Dustin Czapla
Environmental Protection Specialist
Division of Reclamation, Mining and Safety
Phone: (303) 866-3567, ext. 8188



COST SUMMARY WORK

Task description: 2024-02-16 Review

Site: Prince Albert Mine

Permit Action: 2024-02-16

Permit/Job#: M2011040

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/16/2024

County: Montrose

Filename: 000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Backfill adit	MINESEAL	1	8.00	\$3,199
02a	Backfill trench	DOZER	1	2.80	\$706
03a	Finish grade site	DOZER	1	13.87	\$3,494
04a	Distribute growth medium	DOZER	1	0.26	\$66
05a	seal monitor well and utility drop	BOREHOLE	1	8.00	\$45
06a	Revegetate affected areas	REVEGE	1	8.00	\$7,038
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	3.80	\$3,758
<u>SUBTOTALS:</u>				44.73	\$18,306

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$370

Performance bond: 1.05

Total = \$192

Job superintendent: 22.37

Total = \$1,456

Profit: 10.00

Total = \$1,831

TOTAL O & P = \$3,848

CONTRACT AMOUNT (direct + O & P) = \$22,154

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

\$1,108

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$4,956

TOTAL BOND AMOUNT (direct + indirect) = \$23,262

SAFEGUARDING UNDERGROUND OPENINGS

Task description: **Backfill adit**

Site: **Prince Albert Mine** Permit Action: 2024-02-16 Permit/Job#: M2011040

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 2/16/2024 County: Montrose Filename: 01a
User: DMC

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Adit	10' x 10'	Adit closure - backfilling (per opening)	1.00	EA	\$3,199.01	\$3,199.01

Job Hours: 8.00

Total Cost: \$3,199.01

BULLDOZER WORKTask description: **Backfill trench**Site: **Prince Albert Mine** Permit Action: **2024-02-16** Permit/Job#: **M2011040****PROJECT IDENTIFICATION**

Task #:	<u>02A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>2/16/2024</u>	County:	<u>Montrose</u>	Filename:	<u>02a</u>
User:	<u>DMC</u>				

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine:	<u>Cat D6T LGP</u>
Horsepower:	<u>200</u>
Blade Type:	<u>Straight</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$127.53</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$83.13</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$251.96</u>
Total Fleet Cost/Hour:	<u>\$251.96</u>

MATERIAL QUANTITIES

Initial Volume:	<u>267</u>
Swell factor:	<u>1.215</u>
Loose volume:	<u>324 LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining & Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>100 feet</u>
Unadjusted hourly production:	<u>303.3 LCY/hr</u>

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>5,900 feet</u>

Material weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth

<u>Job Condition Correction Factor</u>		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.100</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3818

Adjusted unit production: 115.80 LCY/hr

Adjusted fleet production: **115.8** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$2.176/LCY

Total job time: **2.80** Hours

Total job cost: **\$706**

BULLDOZER WORKTask description: **Finish grade site**Site: **Prince Albert Mine**Permit Action: **2024-02-16**Permit/Job#: **M2011040****PROJECT IDENTIFICATION**Task #: **03A**State: **Colorado**Abbreviation: **None**Date: **2/16/2024**County: **Montrose**Filename: **03a**User: **DMC**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T LGP**Horsepower: **200**Blade Type: **Straight**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$127.53	NA
Operating Cost/Hour:	\$83.13	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$251.96**Total Fleet Cost/Hour: **\$251.96****MATERIAL QUANTITIES**Initial Volume: **2,000**Swell factor: **1.000**Loose volume: **2,000 LCY**Source of estimated volume: **Division of Reclamation, Mining & Safety**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **100 feet**Unadjusted hourly production: **303.3 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**Average push gradient: **0 %**Average site altitude: **5,900 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4755

Adjusted unit production: 144.22 LCY/hr

Adjusted fleet production: **144.22** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.747/LCY

Total job time: **13.87** Hours

Total job cost: **\$3,494**

BULLDOZER WORKTask description: **Distribute growth medium**Site: **Prince Albert Mine** Permit Action: **2024-02-16** Permit/Job#: **M2011040****PROJECT IDENTIFICATION**

Task #:	04A	State:	Colorado	Abbreviation:	None
Date:	2/16/2024	County:	Montrose	Filename:	04a
User:	DMC				

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine:	Cat D6T LGP
Horsepower:	200
Blade Type:	Straight
Attachment:	NA
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$127.53	NA
Operating Cost/Hour:	\$83.13	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour:	\$251.96
Total Fleet Cost/Hour:	\$251.96

MATERIAL QUANTITIES

Initial Volume:	100
Swell factor:	1.000
Loose volume:	100 LCY

Source of estimated volume:	Division of Reclamation, Mining & Safety
Source of estimated swell factor:	Cat Handbook

HOURLY PRODUCTION

Average push distance:	50 feet
Unadjusted hourly production:	444.6 LCY/hr

Materials consistency description: **Loose stockpile 1.2**

Average push gradient:	0 %
Average site altitude:	5,900 feet

Material weight: **1,600 lbs/LCY**Weight description: **Top Soil**

<u>Job Condition Correction Factor</u>	<u>Source</u>
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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 382.04 LCY/hr

Adjusted fleet production: **382.04** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.660/LCY

Total job time: **0.26** Hours

Total job cost: **\$66**

BOREHOLE SEALING WORK

Task description: Seal monitor well and utility drop

Site: Prince Albert Mine

Permit Action: 2024-02-16

Permit/Job#: M2011040

PROJECT IDENTIFICATION

Task #: 05A

State: Colorado

Abbreviation: None

Date: 2/16/2024

County: Montrose

Filename: 05a

User: DMC

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
monitor well	Bentonite seal - 6 in. (labor, equip, materials)	6	435	1.00	LF	\$7.24	\$7.24
cement plug	Portland cement grout - 6 in. (labor, equip, materials)	6	6	6.00	LF	\$6.22	\$37.34

Job Hours: 8.00

Total Cost: \$45.00

REVEGETATION WORKTask description: Revegetate affected areasSite: Prince Albert MinePermit Action: 2024-02-16Permit/Job#: M2011040**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 2/16/2024County: MontroseFilename: 06aUser: DMCAgency or organization name: DRMS**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
Chisel plowing {DMG}	\$100.40
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$213.22

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.60	9.79	\$9.59
Indian Ricegrass - Paloma	2.80	9.06	\$31.15
Crested Wheatgrass - Nordan	2.00	9.18	\$7.80
Pubescent Wheatgrass - Luna	4.00	8.26	\$13.60
Slender Wheatgrass - Pryor	2.60	9.49	\$11.05
Milk Vetch, Cicer - Lutana	0.40	1.33	\$3.28
Western Wheatgrass - Arriba	3.60	9.09	\$23.40
Needle and Thread	3.20	8.45	\$133.92
Flax, Lewis Blue	1.00	6.63	\$16.50

Saltbush, Four Wing	4.00	5.51	\$50.00
Penstemon, Palmer	0.20	4.42	\$10.90
Totals Seed Mix	24.40	81.23	\$311.19

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
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$429.79	\$644.68
Total Mulch Materials Cost/Acre				\$679.77

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
Total Mulch Application Cost/Acre	\$405.29

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: 3 Cost /Acre: \$1,876.69
 Estimated Failure Rate: 25% Cost /Acre*: \$1,876.69
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$5,630.07
 Reseeding Job Cost: \$1,407.52
 Total Job Cost: \$7,038
 Job Hours: 8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew and equipment**Site: **Prince Albert Mine**Permit Action: **2024-02-16**Permit/Job#: **M2011040****PROJECT IDENTIFICATION**Task #: **07A**State: **Colorado**Abbreviation: **None**Date: **2/16/2024**County: **Montrose**Filename: **07a**User: **DMC**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck Tractor Description: **GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)**Truck Trailer Description: **GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)****Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D6T LGP	26.87	\$127.53	\$158.17	1	\$285.70	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$0.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$0.00
Cat D6T LGP	26.87	\$127.53	\$158.17	1	\$285.70	\$158.17	\$250.00

Subtotals: **\$768.65** **\$480.92** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$54.25	1	\$54.25	\$54.25
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83
Flatbed Truck, 4x2, 30K GVW	\$36.22	1	\$36.22	\$36.22

Subtotals: **\$106.30** **\$106.30**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NUCLA	
Total one-way travel distance:	18.00	miles
Average Travel Speed:	40.00	mph

Total Non-Roadable Mob/Demob Cost *	\$3,661.91
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$95.67
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.45	0.45
Return Time (Hours):	0.45	0.45
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.90	0.90

JOB TIME AND COST

Total job time:	3.80	Hours
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Total job cost:	\$3,758
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