



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

1313 Sherman Street, Room 215
Denver, CO 80203

June 26, 2018

Jeff Carter
15954 Jackson Ck Pkwy B281
Monument, CO 80132

RE: Lombard #4 & #5; DRMS File No. M-2018-012; Adequacy Review No. 3

Dear Mr. Carter,

The Division has identified several other comments and questions that must be addressed prior to the Division's decision due date. Please be advised that if you are unable to satisfactorily address any concerns identified in this review before the decision date, it will be your responsibility to request an extension of the review period. If there are outstanding issues that have not been adequately addressed prior to the end of the review period, and no extension has been requested, the Division will deny this application.

Application Form

1. The Application Form specifies the permitted acreage is 4 acres. However, the Applicant has clarified the permit boundary will be 3.6 acres in size. The Applicant shall revise the first page of the Application Form to reflect the change in permitted acreage. A copy of the first page of the Application Form has been enclosed with this letter.

6.3.3 Exhibit C – Mining Plan

2. The Applicant has indicated there is no evidence of water discharging from either of the adits which will be opened. Pursuant to Rule 3.1.6, disturbances to the prevailing hydrologic balance of the affected land and of the surrounding area and to the quantity or quality of water in surface and groundwater systems shall be minimized. Please commit to immediately notifying the Division in the event water is encountered in either of the adits. If water is encountered during the excavation of the adits, the adits shall be immediately backfilled and the Division shall be notified. The proposed Mining and Reclamation Plans do not allow for a discharge from the mine.
3. During a meeting with the Division and USFS held on June 20, 2018, the Applicant indicated the material excavated from the adits would be stockpiled above the existing waste rock stockpiles. The Applicant had previously indicated the excavated material would be stockpiled adjacent to the adit on undisturbed lands. The Applicant shall revise the Mining Plan to clarify



where the excavated material will be stockpiled and shall specify if the stockpile area contains topsoil which must be salvaged.

3.1.8 Wildlife

4. The U.S. Forest Service has indicated there may be potential bat habitat in the adits which will be opened during the mining operation. Pursuant to Rule 3.1.8, all aspects of the mining and reclamation plan shall take into account the safety and protection of wildlife on the mine site. The presence of bats within the adits may require a modification to the closure plan for the adits. Please commit to notifying the Division and USFS if bats are observed in either of the adits in which mining will occur.

6.3.4 Exhibit D – Reclamation Plan

5. The Division has calculated the financial warranty for the proposed operation. A copy of the financial warranty calculation has been enclosed with this letter for your review.

6.3.5 Exhibit E – Map


6. The Reclamation Plan Map does not show the gradient of all reclaimed slopes (horizontal:vertical) sufficient to describe the post-mine topography. Please revise the Reclamation Plan Map to show the gradient of all reclaimed slopes as required by Rule 6.3.5(3)(a). The Applicant may indicate the gradient of reclaimed slopes by adding a label and including an arrow to indicate the direction of the slope.
7. The Applicant has clarified the existing stockpiles of material adjacent to the Adits are comprised of waste rock rather than tailings. Please revise the labels on both the Mining Plan Map and the Reclamation Plan Map to accurately reflect the composition of the stockpiles.
8. The revised Mining and Reclamation Plan Maps do not identify the USFS road which bisects the proposed permit boundaries. Please revise the Mining and Reclamation Plan Maps to include a label which identifies the access road.
9. The revised Mining Plan Map does not identify the owner(s) of record of the surface of the affected area and of the land within 200 feet of the affected area. Please revise the Mining Plan Map to include a label which indicates the surface of the affected area and of the land within 200 feet of the affected area is owned by the USFS.
10. As required by Rule 6.3.5(3)(b), the Reclamation Plan Map shall indicate where vegetation will not be established. The Applicant has indicated the waste rock piles will not be affected by the proposed mining operation. Please revise the Reclamation Plan Map to include a label which specifies the waste rock dumps will not be revegetated.

Mr. Carter
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June 26, 2018

As previously mentioned, if you are unable to provide satisfactory responses to any inadequacies prior to July 2, 2018, it will be your responsibility to request an extension of time to allow for continued review of this application. If there are still unresolved issues when the decision date arrives and no extension has been requested, the application will be denied.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "M.A. Cunningham", is written over a light blue rectangular background.

Michael A. Cunningham
Environmental Protection Specialist

Enclosures (2)



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Denver, CO 80203

**LIMITED IMPACT OPERATION (110(1))
RECLAMATION PERMIT
APPLICATION FORM**

CHECK ONE: ☐ New Application

Permit # M- _____ - _____ (provide for conversions and amendments of existing permits)

The application for a Limited Impact 110(1) Mining Operation Reclamation Permit contains three major parts: (1) the application form; (2) Exhibits A-J, any required sections of Exhibit S and Geotechnical Stability Exhibit, as required by the Office, and outlined in Rules 6.1, 6.2, 6.3, and 6.5; and (3) the application fee. When you submit your application, be sure to include one (1) signed and notarized original and one (1) copy of the application form, two (2) copies of Exhibits A-J, and 6.5 (Geotechnical Stability Exhibit), as required, and a check for the application fee described under (4) below. Exhibits should not be bound or in a 3-ring binder; maps should be folded to 8 1/2" X 11" or 8 1/2" X 14" size. To expedite processing, please provide the information in the format and order described in this form.

GENERAL OPERATION INFORMATION

Type or print clearly, in the space provided, all information described below

-
1. **Applicant/operator or company name (name to be used on the permit):** _____
 - 1.1 Type of organization (corporation, partnership, etc.): _____
 2. **Operation name (pit, mine or site name):** _____
 3. **Permitted acreage (new or existing):** (must be 5 acres or less) _____ permitted acres
 4. **Fees:**
 - 4.1 New Application _____ **\$288.00** application fee
 5. **Primary commodity(ies) to be mined:** _____
 6. **Name of owner to the surface of affected land:** _____
 7. **Name of owner to the subsurface rights of affected land:** _____
 8. **Type of mining operation:** _____ Surface _____ Underground _____ Placer



COST SUMMARY WORK

Task description: Cost Summary

Site: Lombard #4+5

Permit Action: 2018 Bond Calculation

Permit/Job#: M2018012

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 6/26/2018

County: Clear Creek

Filename: M012-000

User: MAC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Equipment Mobilization/Demobilization	MOBILIZE	1	6.20	\$1,079.00
002	Backfill adits	MINESEAL	1	0.00	\$2,818.68
003	Revegetating Affected Areas	REVEGE	1	8.00	\$3,799.00
<u>SUBTOTALS:</u>				14.2	\$7,697

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$155.48

Performance bond: 1.05

Total = \$80.82

Job superintendent: 0.00

Total = \$0.00

Profit: 10.00

Total = \$769.70

TOTAL O & P = \$1,006.00

CONTRACT AMOUNT (direct + O & P) = \$8,703.00

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$435.15

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$1,441.15

TOTAL BOND AMOUNT (direct + indirect) = \$9,138.15

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Equipment Mobilization/DemobilizationSite: Lombard #4+5Permit Action: 2018 Bond CalculationPermit/Job#: M2018012**PROJECT IDENTIFICATION**

Task #: 001 State: Colorado Abbreviation: None
 Date: 6/26/2018 County: Clear Creek Filename: M012-001
 User: MAC

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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

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 246C	3.58	\$7.06	\$88.67	1	\$95.73	\$88.67	\$250.00
Subtotals:					\$95.73	\$88.67	\$250.00

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:	<u>DENVER</u>	
Total one-way travel distance:	<u>42.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,078.70</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.05</u>	<u>1.05</u>
Return Time (Hours):	<u>1.05</u>	<u>1.05</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>3.10</u>	<u>2.10</u>

JOB TIME AND COST

Total job time:	<u>6.20</u>	Hours
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Total job cost:	<u>\$1,079</u>
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SAFEGUARDING UNDERGROUND OPENINGS

Task description: Backfill adits

Site: Lombard #4+5

Permit Action: 2018 Bond Calculation

Permit/Job#: M2018012

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 6/26/2018

County: Clear Creek

Filename: M012-002

User: MAC

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Lower Adit	6x6	Adit closure - backfilling (per cu. yd.)	50.00	CY	\$27.00	\$1,350.00
Upper Adit	6x6	Adit closure - backfilling (per cu. yd.)	50.00	CY	\$27.00	\$1,350.00
Driving equipment to/from site from Cumberland Gulch Rd.	8870'	CAT 246C	2.00	EA	\$59.34	\$118.68

Job Hours: 0.00

Total Cost: \$2,818.68

REVEGETATION WORKTask description: Revegetating Affected AreasSite: Lombard #4+5Permit Action: 2018 Bond CalculationPermit/Job#: M2018012**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 6/26/2018County: Clear CreekFilename: M012-003User: MACAgency 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Elk Sedge	5.80	13.31	\$2,499.80
Idaho Fescue	1.60	20.20	\$14.40
Locoweed, Showy	0.50	1.44	\$34.75
Parry's Oatgrass	4.00	8.26	\$92.28
Prairie Junegrass	0.30	15.95	\$9.10
Spike Muhly	0.46	16.90	\$4.43
Totals Seed Mix	12.66	76.06	\$2,654.76

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
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$2,921.98
Estimated Failure Rate:	30%	Cost /Acre*:	\$2,921.98
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$2,921.98
Reseeding Job Cost:	\$876.59
Total Job Cost:	\$3,799
Job Hours:	8.00