



STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Bond Estimate / Big Johnson Reservoir / M-2020-028

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Mon, Jan 25, 2021 at 2:47 PM

To: GARY STEEN <glsteen@comcast.net>

Cc: "Cazier - DNR, Tim" <tim.cazier@state.co.us>, "Cunningham - DNR, Michael" <michaela.cunningham@state.co.us>

Hi Gary,

I've reviewed your adequacy response for the Big Johnson Reservoir application, and am ready to approve. I just wanted to let you know my bond estimate for the proposed reclamation plan came out to \$6,003 (see attached) .

This means that after the permit has been approved and issued, you could request a Surety Reduction, since our calculated amount is far less than the \$75,000 posted for the application.

Please coordinate with Tim Cazier on the surety reduction. I'm attaching the form you submit (after permit issuance) to request a reduction.

I'll be in touch shortly on the application approval.

Thanks,

Amy Eschberger
Environmental Protection Specialist



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

I am working remotely and can be reached at 303-945-9014.

O: 303.866.3567 x 8129 | F: 303.832.8106 | C: 303.945.9014
1313 Sherman Street, Room 215, Denver, CO 80203
Amy.Eschberger@state.co.us | <https://www.colorado.gov/drms>

2 attachments



M2020-028_Bond-Estimate.pdf
274K



MineralsReleaseRequestForm.pdf
227K

COST SUMMARY WORK

Task description: Cost Summary

Site: Big Johnson Reservoir

Permit Action: New 111 Permit

Permit/Job#: M2020028

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/25/2021

County: El Paso

Filename: M028-000

User: AME

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade reservoir shoreline to 6H:1V	DOZER	1	12.17	\$2,994
002	Mobilization/Demobilization	MOBILIZE	1	2.16	\$969
<u>SUBTOTALS:</u>				14.33	\$3,963

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$80

Performance bond: 1.05

Total = \$42

Job superintendent: 8.00

Total = \$556

Profit: 10.00

Total = \$396

TOTAL O & P = \$1,074

CONTRACT AMOUNT (direct + O & P) = \$5,037

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$214

Reclamation management and/or administration: 5.00

\$252

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$2,040

TOTAL BOND AMOUNT (direct + indirect) = \$6,003

BULLDOZER WORKTask description: Grade reservoir shoreline to 6H:1VSite: Big Johnson Reservoir Permit Action: New 111 Permit Permit/Job#: M2020028**PROJECT IDENTIFICATION**

Task #: 001 State: Colorado Abbreviation: None
 Date: 1/25/2021 County: El Paso Filename: M028-001
 User: AME

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

Basic Machine: Cat D8T - 8SU
 Horsepower: 310
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$116.22</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$89.77</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>\$40.04</u>	<u>NA</u>

Total unit Cost/Hour: \$246.02
 Total Fleet Cost/Hour: **\$246.02**

MATERIAL QUANTITIES

Initial Volume: 5,690
 Swell factor: 1.250
 Loose volume: **7,113 LCY**

Source of estimated volume: Approx 3,200 ft shoreline x 8 ft H
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly production: 1,400.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -5 %
 Average site altitude: 5,805 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.100</u>	<u>(50% SL)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4175

Adjusted unit production: 584.50 LCY/hr

Adjusted fleet production: **584.5** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.421/LCY

Total job time: **12.17** Hours

Total job cost: **\$2,994**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization/Demobilization**Site: **Big Johnson Reservoir** Permit Action: **New 111 Permit** Permit/Job#: **M2020028****PROJECT IDENTIFICATION**

Task #: **002** State: **Colorado** Abbreviation: **None**
 Date: **1/25/2021** County: **El Paso** Filename: **M028-002**
 User: **AME**

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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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 D8T - 8SU	47.71	\$116.22	\$123.81	1	\$240.03	\$123.81	\$250.00
Subtotals:					\$240.03	\$123.81	\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$13.23	1	\$13.23	\$13.23
Subtotals:			\$13.23	\$13.23

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	COLORADO SPRINGS	
Total one-way travel distance:	12.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$962.68	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$6.35	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.24	0.24
Return Time (Hours):	0.24	0.24
Loading Time (Hours):	0.30	NA
Unloading Time (Hours):	0.30	NA
Subtotals:	1.08	0.48

JOB TIME AND COST

Total job time:	2.16	Hours
Total job cost:	\$969	



COLORADO

**Division of Reclamation,
Mining and Safety**

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

REQUEST FOR FULL OR PARTIAL RELEASE OF PERMIT AREA/SURETY REDUCTION

Please indicate if you are requesting:

FULL/FINAL RELEASE OF ENTIRE PERMITTED AREA (per Rule 4.17)

ACREAGE REDUCTION (PARTIAL RELEASE per Rule 4.17)

I wish to release _____ acres at this time.

You will need to submit with this request: a map showing the acreage to be released from the current permit and updated mining and reclamation plan maps that will accurately depict the new permit boundary if the release is approved.

SURETY (Bond) REDUCTION (per Rule 4.14)

If you are requesting a surety (bond) reduction you will need to include with this request a new estimate of the actual cost to reclaim the site based on what it would cost an independent contractor to complete reclamation, including unit costs for reclamation activities as appropriate to the operation to comply with the provisions of Rule 3.1 and the Permit's approved Reclamation Plan.

File No.: M _____

Site Name: _____

County: _____

Permittee: _____

Permittee Address: _____
(Street Address)

(City) (State) (Zip)



Operator (If Other than Permittee): _____

Permittee Representative: _____

Certified Mail # _____

In accordance with Rule 4.17.1(2) the Operator shall include the names, addresses and phone numbers of all owners of record to the affected land. Please attach additional sheets for this information if required.

<u>Name</u>	<u>Address</u>	<u>Phone Number</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

In accordance with Rule 4.17.1(4), if requesting a partial acreage release the Operator or their agent MUST sign that they have complied with the following statement: “All applicable portions of the Reclamation Plan requirements have been satisfied in accordance with these Rules and all applicable requirements under the Act.”

Signature of Permittee, Operator or their authorized agent Date

Important: In accordance with Rules 4.14.2(a) and 4.17.1(3) This release request must be submitted to the Division via certified mail and separate from any other correspondence to the Division.