

STATE OF
COLORADO

Wein - DNR, Clayton <clayton.wein@state.co.us>

Deserado Mine, C-1981-018, MR-187 Reclamation Cost Estimate

2 messages

Wein - DNR, Clayton <clayton.wein@state.co.us>

Thu, Nov 21, 2024 at 2:19 PM

To: Kurt Blunt <kblunt@deserado.com>

Cc: Todd Jesse - DNR <todd.jesse@state.co.us>

Good afternoon Kurt,

Attached is the Division's reclamation cost estimate for the activities proposed under Minor Revision No. 187. Please review the estimate and contact Todd or I if you have any questions. If the estimate looks good, we can go ahead and approve MR-187.

Thank you,

Clayton Wein**Environmental Protection Specialist****COLORADO**
Division of Reclamation,
Mining and Safety
Department of Natural Resources

P 720.762.6156 | F 303.832.8106

1313 Sherman Street, Room 215, Denver, CO 80203

clayton.wein@state.co.us | <https://www.drms.colorado.gov>**Deserado Mine, C-1981-018, MR-187 Reclamation Cost Estimate.pdf**

380K

Kurt Blunt <kblunt@deserado.com>

Thu, Nov 21, 2024 at 2:24 PM

To: "Wein - DNR, Clayton" <clayton.wein@state.co.us>

Cc: Todd Jesse - DNR <todd.jesse@state.co.us>

Todd/Clayton,

The cost estimate looks fine to me.

Thanks,

Kurt

From: Wein - DNR, Clayton <clayton.wein@state.co.us>**Sent:** Thursday, November 21, 2024 2:19 PM**To:** Kurt Blunt <kblunt@deserado.com>**Cc:** Todd Jesse - DNR <todd.jesse@state.co.us>**Subject:** Deserado Mine, C-1981-018, MR-187 Reclamation Cost Estimate

EXTERNAL

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MR-187 Adequacy Review Response 11-21-2024.pdf

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COST SUMMARY WORK

Task description: _____

Site: Deserado Mine

Permit Action: MR 187

Permit/Job#: C1981018

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 11/21/2024

County: Moffat

Filename: C018-000

User: TJ1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Plug and seal Nitrogen Wells	BOREHOLE	1	0.00	\$406
002	Replace Topsoil on Drill Pads and Access Roads	DOZER	1	1.77	\$839
003	Reseed Drill Pads and Access Roads	REVEGE	1	10.00	\$1,078
<u>SUBTOTALS:</u>				11.77	\$2,323

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$47

Performance bond: 1.05

Total = \$24

Job superintendent: 5.88

Total = \$466

Profit: 10.00

Total = \$232

TOTAL O & P = \$770

CONTRACT AMOUNT (direct + O & P) = \$3,093

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 10.00

Total = \$309

Reclamation management and/or administration: 7.10

\$220

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,299

TOTAL BOND AMOUNT (direct + indirect) = \$3,622

BOREHOLE SEALING WORK

Task description: Plug and seal Nitrogen Wells

Site: Deserado Mine

Permit Action: MR 187

Permit/Job#: C1981018

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 11/21/2024

County: Moffat

Filename: C018-001

User: TJ1

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal and Abandon 3 Nitrogen Injectionwells	Portland cement grout (Bag, material cost only...94 lb. bag)	3.5	10' x 2	3.00	bag	\$22.00	\$66.00
Bottom Plug x3	PVC plug - 4 in. diameter borehole	3.5	NA	3.00	EA	\$36.06	\$108.18
Cut Casing x3	Exposed casing removal - Calculate Circumference in Linear Feet	3.5	NA	3.00	LF	\$3.23	\$9.69
Borehole Identification Marker x3	Borehole location/identification marker (EA, material cost only)	NA	NA	3.00	EA	\$46.00	\$138.00
Truck and Labor	Flatbed Truck, 4x2, 15K GVW	NA	NA	2.00	EA	\$42.24	\$84.48

Job Hours: 0.00

Total Cost: \$406.00

BULLDOZER WORKTask description: **Replace Topsoil on Drill Pads and Access Roads**Site: **Deserado Mine**Permit Action: MR 187Permit/Job#: C1981018**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 11/21/2024County: MoffatFilename: C018-002User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own.		
Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$474.89Total Fleet Cost/Hour: **\$474.89****MATERIAL QUANTITIES**Initial Volume: 1,160Swell factor: 1.250Loose volume: **1,450 LCY**Source of estimated volume: MR-187 ApplicationSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 5,700 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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: 0.3890

Adjusted unit
production: 820.98 LCY/hr
Adjusted fleet
production: **820.98** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.578/LCY

Total job time: **1.77** Hours
Total job cost: **\$839**

REVEGETATION WORKTask description: **Reseed Drill Pads and Access Roads**Site: **Deserado Mine**Permit Action: **MR 187**Permit/Job#: **C1981018****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **11/21/2024**County: **Rio Blanco**Filename: **C018-003**User: **TJ1**Agency 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
Alkali Sacaton	0.10	3.90	\$2.91
Indian Ricegrass - Nespar	0.40	1.29	\$6.89
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Bluebunch Wheatgrass - Secar	0.50	1.61	\$5.26
Canby Bluegrass - Canbar	0.20	4.25	\$3.00
Crested Wheatgrass - Nordan	4.00	18.37	\$21.25
Russian Wildrye - Bozoisky	2.00	8.03	\$22.15
Bottlebrush Squirreltail	0.20	0.88	\$5.08
Sandberg Bluegrass - VNS	0.20	4.25	\$2.89

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$4.76
Sheep Fescue - Covar	0.20	3.12	\$1.23
Slender Wheatgrass - Pryor	2.00	7.30	\$12.36
Milk Vetch, Cicer - Monarch	1.00	3.33	\$9.56
Thickspike Wheatgrass - Critana	1.00	3.54	\$8.15
Western Wheatgrass - Arriba	2.00	5.05	\$18.07
Needlegrass, Green - Lodorm	0.60	2.49	\$5.19
Sagebrush, Mountain or Big	0.10	5.28	\$8.27
Prairie Junegrass	0.20	10.63	\$9.75
Flax, Lewis Blue	0.40	2.65	\$16.92
Saltbush, Four Wing	2.00	2.75	\$39.75
Saltbush, Shadscale	0.50	0.75	\$9.04
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	19.20	99.54	\$226.72

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

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: 1.44 Cost /Acre: \$499.28
 Estimated Failure Rate: 50% Cost /Acre*: \$499.28
 *Selected Replanting Work Items: SEEDING
 Initial Job Cost: \$718.96

Reseeding Job Cost:	\$359.48
Total Job Cost:	\$1,078
Job Hours:	10.00