

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: J Birds, Permit # M-2005-050, 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 \$34,403.00. This is an increase of \$17,257.00 over the \$17,146.00 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', with a long horizontal flourish extending to the right.

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: J Birds

Permit Action: 2024-02-16 Review

Permit/Job#: M2005050

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	Install bat grate at portal and seal air vent hole	MINESEAL	1	10.00	\$6,940
02a	Grade waste pile area to 3H:1V	DOZER	1	29.19	\$7,356
03a	Rip 2 ac. disturbed land	RIPPER	1	3.35	\$892
04a	Spread topsoil over 2 acre area	DOZER	1	6.19	\$1,560
05a	Revegetation	REVEGE	1	4.00	\$6,289
06a	Mobilize reclamation crew/equipment	MOBILIZE	1	6.00	\$4,250
<u>SUBTOTALS:</u>				58.73	\$27,287

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$551
Performance bond:	1.05	Total =	\$287
Job superintendent:	29.37	Total =	\$1,911
Profit:	10.00	Total =	\$2,729

TOTAL O & P = \$5,477

CONTRACT AMOUNT (direct + O & P) = \$32,764

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>\$0</u>	Total =	<u>\$0</u>
Engineering work and/or contract/bid preparation:	<u>0.00</u>	Total =	<u>\$0</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$1,638</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$7,116

TOTAL BOND AMOUNT (direct + indirect) = \$34,403

SAFEGUARDING UNDERGROUND OPENINGS

Task description: Install bat grate at portal and seal air vent hole

Site: J Birds Permit Action: 2024-02-16 Review Permit/Job#: M2005050

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
Main portal	10' x 10'	Adit closure - grate with bat access, ladder type (per opening)	1.00	EA	\$6,249.99	\$6,249.99
Seal vent hole	24"	Shaft closure - polyurethane foam plug (per cu. yd.)	2.00	CY	\$345.00	\$690.00

Job Hours: 10.00

Total Cost: \$6,939.99

BULLDOZER WORKTask description: Grade waste pile area to 3H:1VSite: J BirdsPermit Action: 2024-02-16 ReviewPermit/Job#: M2005050**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 2/16/2024County: MontroseFilename: 02aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T LGPHorsepower: 200Blade Type: StraightAttachment: NAShift Basis: 1 per dayData 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: \$251.96Total Fleet Cost/Hour: \$251.96**MATERIAL QUANTITIES**Initial Volume: 9,375Swell factor: 1.000Loose volume: 9,375 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 444.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -15 %Average site altitude: 6,550 feetMaterial weight: 2,550 lbs/LCYWeight description: Sandstone**Job Condition Correction Factor**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7223

Adjusted unit production: 321.13 LCY/hr

Adjusted fleet production: **321.13** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.785/LCY

Total job time: **29.19** Hours

Total job cost: **\$7,356**

BULLDOZER RIPPING WORK

Task description: Rip 2 ac. disturbed land

Site: J Birds Permit Action: 2024-02-16 Review Permit/Job#: M2005050

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
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$127.53</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$83.13</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$9.06</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$5.02</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$266.04</u>	
Total Fleet Cost/Hour:	<u>\$266.04</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 2.00 acres Rip Depth (ft): 2.00 Volume: 6,453 BCY or CCY

Source of estimated quantity: NA

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.64</u>	<u>feet/pass</u>
Average Ripping Width:	<u>6.58</u>	<u>feet/pass</u>
Average Ripping Length:	<u>200.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.719</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.719</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,550</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.60</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.60</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **3.35** Hours

Unit cost: \$446.087 Per acre Total job cost: **\$892**

BULLDOZER WORKTask description: Spread topsoil over 2 acre areaSite: J BirdsPermit Action: 2024-02-16 ReviewPermit/Job#: M2005050**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 2/16/2024County: MontroseFilename: 04aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T LGPHorsepower: 200Blade Type: StraightAttachment: NAShift Basis: 1 per dayData Source: (CRG)**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: \$251.96Total Fleet Cost/Hour: \$251.96**MATERIAL QUANTITIES**Initial Volume: 1,614Swell factor: 1.000Loose volume: 1,614 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 303.3 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,550 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 260.63 LCY/hr

Adjusted fleet production: **260.63** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.967/LCY

Total job time: **6.19** Hours

Total job cost: **\$1,560**

REVEGETATION WORKTask description: **Revegetation**Site: **J Birds**Permit Action: 2024-02-16 ReviewPermit/Job#: M2005050**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 2/16/2024County: MontroseFilename: 05aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-24-24, 10-15-15, 10-20-20	250.00	pound	\$0.60	\$150.83
			Total Fertilizer Materials Cost/Acre	\$150.83

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$100.40
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$439.20

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	0.80	2.59	\$8.90
Sand Dropseed	0.10	11.94	\$0.98
Bottlebrush Squirreltail	2.00	8.82	\$32.45
Galleta	1.20	4.38	\$26.82
Slender Wheatgrass - Native	2.40	8.76	\$11.10
Western Wheatgrass - Arriba	2.50	6.31	\$16.25
Needle and Thread	0.80	2.11	\$33.48
Sagebrush, Wyoming Big	0.10	5.91	\$2.33
Globemallow, Scarlet (or copper)	0.10	1.13	\$13.55
Winter Fat	0.10	0.25	\$2.05

Penstemon, Rocky Mountain	0.10	1.57	\$2.95
Totals Seed Mix	10.20	53.78	\$150.85

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Total Mulch Application Cost/Acre	\$222.13

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: 2 Cost /Acre: \$2,096.40
 Estimated Failure Rate: 50% Cost /Acre*: \$2,096.40
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$4,192.80**
 Reseeding Job Cost: **\$2,096.40**
 Total Job Cost: **\$6,289**
 Job Hours: **4.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew/equipment**Site: **J Birds**Permit Action: **2024-02-16 Review**Permit/Job#: **M2005050****PROJECT IDENTIFICATION**

Task #: **06A** State: **Colorado** Abbreviation: **None**
 Date: **2/16/2024** County: **Montrose** Filename: **06a**
 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	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$482.95** **\$322.75** **\$750.00**

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.	\$15.83	1	\$15.83	\$15.83
Water Tanker, 2,500 Gal.	\$34.27	1	\$34.27	\$34.27
Flatbed Truck, 4x2, 30K GVW	\$36.22	1	\$36.22	\$36.22

Subtotals: **\$86.32** **\$86.32**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NATURITA	
Total one-way travel distance:	30.00	miles
Average Travel Speed:	30.00	mph

Total Non-Roadable Mob/Demob Cost *	\$4,077.30
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$172.64
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time:	6.00	Hours
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Total job cost:	\$4,250
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