



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

June 27, 2023

Bridget Wade  
Bureau of Land Management  
Tres Rios Field Office  
161 Burnett Drive, Unit 4  
Durango, CO 81301

**Re: Wedding Bell Project (Rimrock Area), File No. P-2023-011, Notice of Intent to Conduct Prospecting Operations (NOI), Request for Concurrence**

Dear Mr. Blair,

On May 25, 2023 the Division of Reclamation, Mining and Safety received the above listed application for the Wedding Bell Project (Rimrock Area) Notice of Intent to Conduct Prospecting Operations (NOI) located on Bureau of Land Management Lands (BLM) within San Miguel County. During the Division's technical Adequacy Review period a Reclamation Cost Estimate was performed. Based on the details of the project, Division Staff has estimated the total Reclamation Cost to ensure reclamation of all affected lands at \$8,153.00. The Reclamation Cost Estimate Worksheets are enclosed. Per the Memorandum of Understanding, please review these calculations and provide documentation of concurrence for the Financial Warranty amount.

Upon receiving concurrence, the calculation will be provided to the applicant so they may submit the appropriate Financial Warranty for the site. Please note the application will not be granted the final Authorization to Proceed from our office until all necessary permits are also obtained from the BLM and copies are provided to the Division. If you have any questions please feel free to contact me at the Division's Grand Junction Field Office, by phone at 303-866-3567 Ext. 8187 or by email at [lucas.west@state.co.us](mailto:lucas.west@state.co.us).

Sincerely,

**Lucas West**  
Environmental Protection Specialist  
Division of Reclamation, Mining and Safety

Encl: Reclamation Cost Estimate Worksheets

Ec: Jim Guilinger, Standard Minerals, Inc.  
Tony Adkins



## COST SUMMARY WORK

Task description: Cost Summary

Site: Wedding Bell Project (Rim  
Rock Area)

Permit Action: New App

Permit/Job#: P2023011

### PROJECT IDENTIFICATION

Task #: 000  
Date: 6/27/2023  
User: LJW

State: Colorado  
County: Montrose

Abbreviation: None  
Filename: P011-000

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	P & A Drill Holes x 8	BOREHOLE	1	8.00	\$744
002	Regrade Drill Pads	DOZER	1	5.51	\$1,056
003	Regrade Access Roads @ 30% disturbed	DOZER	1	2.16	\$414
004	Rip Compacted Areas	RIPPER	1	1.39	\$274
005	Revegetation	REVEGE	1	16.00	\$513
006	Secondary Seeding	REVEGE	1	8.00	\$256
007	Mobilization	MOBILIZE	1	4.57	\$2,094
<b><u>SUBTOTALS:</u></b>				<b>45.63</b>	<b>\$5,351</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$108
Performance bond:	1.05	Total =	\$56
Job superintendent:	22.82	Total =	\$1,714
Profit:	10.00	Total =	\$535
		TOTAL O & P =	\$2,413
		CONTRACT AMOUNT (direct + O & P) =	\$7,764

#### 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		\$388

CONTINGENCY: 0.00      Total = \$0

TOTAL INDIRECT COST = \$2,802

**TOTAL BOND AMOUNT (direct + indirect) = \$8,153**

## BOREHOLE SEALING WORK

Task description: P & A Drill Holes x 8

Site: Wedding Bell Project (Rim  
Rock Area)

Permit Action: New App

Permit/Job#: P2023011

### PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None  
Date: 6/27/2023 County: Montrose Filename: P011-001  
User: LJW

Agency or organization name: DRMS

### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Exploration Hole x 8	Bentonite seal - 6 in. (labor, equip, materials)	5.5	5	40.00	LF	\$6.32	\$252.80
Spider Plug	PVC plug - 6 in. diameter borehole	5.5	NA	8.00	EA	\$61.43	\$491.44

Job Hours: 8.00

Total Cost: \$744.00

**BULLDOZER WORK**Task description: **Regrade Drill Pads**Site: **Wedding Bell Project (Rim  
Rock Area)**

Permit Action:

**New App**Permit/Job#: **P2023011****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **6/27/2023**County: **Montrose**Filename: **P011-002**User: **LJW**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T LGP**Horsepower: **200**Blade Type: **Straight**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$75.83	NA
Operating Cost/Hour:	\$66.34	100
Ripper own. Cost/Hour:	\$8.37	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$191.84	
Total Fleet Cost/Hour:	<b>\$191.84</b>	

**MATERIAL QUANTITIES**Initial Volume: **1,111**Swell factor: **1.000**Loose volume: **1,111 LCY**Source of estimated volume: **8 pads, 2500SqFt, avg 1.5 ft D / 27**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: **6,620 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor****Source**

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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4539

Adjusted unit production: 201.80 LCY/hr  
Adjusted fleet production: **201.8** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.951/LCY

Total job time: **5.51** Hours  
Total job cost: **\$1,056**

**BULLDOZER WORK**Task description: **Regrade Access Roads @ 30% disturbed**Site: **Wedding Bell Project (Rim  
Rock Area)**Permit Action: New AppPermit/Job#: P2023011**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 6/27/2023County: MontroseFilename: P011-003User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T LGPHorsepower: 200Blade Type: StraightAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$75.83</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$66.34</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$8.37</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>\$191.84</u>	
Total Fleet Cost/Hour:	<u><b>\$191.84</b></u>	

**MATERIAL QUANTITIES**Initial Volume: 435Swell factor: 1.000Loose volume: **435 LCY**Source of estimated volume: .07 Acres OL Trav + .11 Ac New \*4350 / 27Source of estimated swell  
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly  
production: 444.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push  
gradient: 0 %Average site altitude: 6,620 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% EarthJob Condition Correction FactorSource

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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4539

Adjusted unit  
production: 201.80 LCY/hr  
Adjusted fleet  
production: **201.8** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.951/LCY

Total job time: **2.16** Hours  
Total job cost: **\$414**

## BULLDOZER RIPPING WORK

Task description: Rip Compacted Areas

Site: Wedding Bell Project (Rim Rock Area)

Permit Action: New App

Permit/Job#: P2023011

### PROJECT IDENTIFICATION

Task #: 004  
Date: 6/27/2023  
User: LJW

State: Colorado  
County: Montrose

Abbreviation: None  
Filename: P011-004

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D6T LGP  
Ripper Attachment: 3-Shank Ripper

Horsepower: 200  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$75.83	NA
Operating Cost/Hour:	\$66.34	100
Ripper Ownership Cost/Hour:	\$8.37	NA
Ripper Operating Cost/Hour:	\$4.99	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$196.83	
Total Fleet Cost/Hour:	<b>\$196.83</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 0.64 acres Rip Depth (ft): 1.00 Volume: 1,033 BCY or CCY

Source of estimated quantity: .46 Ac pads, .18 Ac Access Roads

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 1.64 feet/pass  
Average Ripping Width: 6.58 feet/pass  
Average Ripping Length: 50.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.554 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.554 Acres/hr  
Site Altitude: 6,620 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.46 Acres/hr  
Adjusted Hourly Fleet Production: 0.46 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 1.39 Hours



Unit cost:           \$428.158           Per acre

Total job cost:                           \$274

**REVEGETATION WORK**Task description: RevegetationSite: Wedding Bell Project (Rim  
Rock Area)Permit Action: New AppPermit/Job#: P2023011**PROJECT IDENTIFICATION**Task #: 005  
Date: 6/27/2023  
User: LJWState: Colorado  
County: MontroseAbbreviation: None  
Filename: P011-005Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$13.18
Indian Ricegrass - Native	7.42	24.02	\$48.23
Sand Dropseed	0.14	16.71	\$1.37
Bottlebrush Squirreltail	4.08	17.98	\$66.20
Galleta	4.94	18.03	\$110.41
Muttongrass	0.20	4.13	\$6.88
Sagebrush, Mountain or Big	0.20	10.56	\$3.95
Saltbush, Four Wing	0.50	0.69	\$6.25

Winter Fat	0.50	1.27	\$10.25
<b>Totals Seed Mix</b>	18.94	109.07	<b>\$266.71</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 0.64                      Cost /Acre: \$533.93  
 Estimated Failure Rate: 50%                      Cost /Acre\*: \$533.93  
 \*Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$341.72**  
 Reseeding Job Cost: **\$170.86**  
 Total Job Cost: **\$513**  
 Job Hours: **16.00**

**REVEGETATION WORK**Task description: Secondary SeedingSite: Wedding Bell Project (Rim  
Rock Area)Permit Action: New AppPermit/Job#: P2023011**PROJECT IDENTIFICATION**Task #: 006  
Date: 6/27/2023  
User: LJWState: Colorado  
County: MontroseAbbreviation: None  
Filename: P011-006Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$13.18
Indian Ricegrass - Native	7.42	24.02	\$48.23
Sand Dropseed	0.14	16.71	\$1.37
Bottlebrush Squirreltail	4.08	17.98	\$66.20
Galleta	4.94	18.03	\$110.41
Muttongrass	0.20	4.13	\$6.88
Sagebrush, Mountain or Big	0.20	10.56	\$3.95
Saltbush, Four Wing	0.50	0.69	\$6.25

Winter Fat	0.50	1.27	\$10.25
<b>Totals Seed Mix</b>	18.94	109.07	<b>\$266.71</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Broadcast seeding [DMG]	\$267.22
<b>Total Seed Application Cost/Acre</b>	<b>\$267.22</b>

**MULCHING and MISCELLANEOUS****Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
			\$	\$
<b>Total Mulch Materials Cost/Acre</b>				<b>\$0.00</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</b>

**NURSERY STOCK PLANTING**

<b>Common Name</b>	<b>No / Acre</b>	<b>Type and Size</b>	<b>Planting Cost</b>	<b>Fertilizer Pellet Cost</b>	<b>Cost /Acre</b>
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres: 0.32                      Cost /Acre: \$533.93  
 Estimated Failure Rate: 50%                      Cost /Acre\*: \$533.93  
 \*Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$170.86**  
 Reseeding Job Cost: **\$85.43**  
 Total Job Cost: **\$256**  
 Job Hours: **8.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilization**Site: **Wedding Bell Project (Rim  
Rock Area)**

Permit Action:

**New App**Permit/Job#: **P2023011****PROJECT IDENTIFICATION**Task #: **007**State: **Colorado**Abbreviation: **None**Date: **6/27/2023**County: **Montrose**Filename: **P011-007**User: **LJW**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**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	28.63	\$84.20	\$101.82	1	\$186.02	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Subtotals:					<b>\$260.49</b>	<b>\$170.04</b>	<b>\$500.00</b>

**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.	\$14.23	1	\$14.23	\$14.23
Subtotals:			<b>\$14.23</b>	<b>\$14.23</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>NATURITA</u>	
Total one-way travel distance:	<u>29.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,075.89</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$18.34</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.64</u>	<u>0.64</u>
Return Time (Hours):	<u>0.64</u>	<u>0.64</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>2.29</u>	<u>1.29</u>

**JOB TIME AND COST**

Total job time:	<u>4.58</u>	Hours
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Total job cost:	<u>\$2,094</u>
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