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 (Section 23 Area), File No. P-2023-010, Notice of Intent to Conduct Prospecting Operations (NOI), Request for Concurrence

Dear Ms. Wade,

On May 19, 2023 the Division of Reclamation, Mining and Safety received the above listed application for the Wedding Bell Project (Section 23 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 $9,170.00. 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.

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 (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-000
User: LJW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	P & A Drill Holes	BOREHOLE	1	16.00	$1,023
002	Regrade Drill Pads	DOZER	1	7.57	$1,452
003	Regrade access roads @ 30% disturbed	DOZER	1	1.08	$207
004	Rip Compacted Areas	RIPPER	1	1.56	$308
005	Revegetation	REVEGE	1	16.00	$577
006	Secondary Seeding	REVEGE	1	8.00	$288
007	Mobilization	MOBILIZE	1	4.40	$2,055
		SUBTOTALS:		**54.61**	**$5,910**

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	$119
Performance bond:	1.05	Total =	$62
Job superintendent:	27.31	Total =	$2,051
Profit:	10.00	Total =	$591
		TOTAL O & P =	$2,824
		CONTRACT AMOUNT (direct + O & P) =	$8,734

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		$437
CONTINGENCY:	0.00	Total =	$0
		TOTAL INDIRECT COST =	$3,261
		TOTAL BOND AMOUNT (direct + indirect) =	**$9,171**

BOREHOLE SEALING WORK

Task description: **P & A Drill Holes**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-001
User: LJW

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Spider Plug x 11	PVC plug - 6 in. diameter borehole	5.5	NA	11.00	EA	$61.43	$675.73
Exploration Holes x 11	Bentonite seal - 6 in. (labor, equip, materials)	5.5	5	55.00	LF	$6.32	$347.60

Job Hours: **16.00** **Total Cost**: **$1,023.00**

BULLDOZER WORK

Task description: **Regrade Drill Pads**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-002
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:

		Utilization %
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: **$191.84**

MATERIAL QUANTITIES

Initial Volume: 1,527
Swell factor: 1.000
Loose volume: **1,527** LCY

Source of estimated volume: 11 pads @ 2500SQFT, 1.5ft Depth avg / 27 for CY
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: 2,700 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: **7.57** Hours
Total job cost: **$1,452**

BULLDOZER WORK

Task description: **Regrade access roads @ 30% disturbed**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-003
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:

		Utilization %
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: **$191.84**

MATERIAL QUANTITIES

Initial Volume: 218
Swell factor: 1.000
Loose volume: **218** LCY

Source of estimated volume: .09 Ac of roads, avg 1.5 ft deep
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: 6,700 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: **1.08** Hours

Total job cost: **$207**

BULLDOZER RIPPING WORK

Task description: **Rip Compacted Areas**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-004
User: LJW

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:	$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:	**$196.83**	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.72 acres Rip Depth (ft): 1.00 Volume: 1,162 BCY or CCY

Source of estimated quantity: Pad Areas + 30% of 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:	6,700	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: **1.57** Hours

Unit cost:	$428.158	Per acre	Total job cost:	**$308**

REVEGETATION WORK

Task description: **Cost Summary**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-005
User: LJW

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
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
Totals Seed Mix	18.94	109.07	**$266.71**

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: 0.72
Estimated Failure Rate: 50%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $533.93
Cost /Acre*: $533.93

Initial Job Cost: **$384.43**
Reseeding Job Cost: **$192.21**
Total Job Cost: **$577**
Job Hours: **16.00**

REVEGETATION WORK

Task description: **Secondary Seeding**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 006 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-006
User: LJW

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
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
Totals Seed Mix	18.94	109.07	**$266.71**

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: 0.36
Estimated Failure Rate: 50%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $533.93
Cost /Acre*: $533.93

Initial Job Cost: **$192.21**
Reseeding Job Cost: **$96.11**
Total Job Cost: **$288**
Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Mobilization**

Site: **Wedding Bell Project (Section 23 Area)** Permit Action: New App Permit/Job#: P2023010

PROJECT IDENTIFICATION

Task #: 007 State: Colorado Abbreviation: None
Date: 6/27/2023 County: San Miguel Filename: P010-007
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:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
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:					**$260.49**	**$170.04**	**$500.00**

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.	$14.23	1	$14.23	$14.23
Subtotals:			**$14.23**	**$14.23**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NATURITA	
Total one-way travel distance:	27.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$2,037.62
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$17.08

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.60	0.60
Return Time (Hours):	0.60	0.60
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.20	1.20

JOB TIME AND COST

Total job time:	**4.40**	Hours
Total job cost:	**$2,055**	