

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 <u>\$9,170.00</u>. 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

]	Fask descrij	otion:	Cost Sum	nmary					
Site:	Wedding 23 Area)	Bell Project	(Section	Per	mit Action:	New App	Permit/Jol	o#: P2023010	
<u>P</u>	ROJECT	IDENTIFIC	CATION						
	Task #: Date: User:	000 6/27/2023 LJW		State: ounty:	Colorado San Migue	1	Abbreviation: Filename:	None P010-000	
	Age	ency or organi	zation name	e: DR	MS				

### TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	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
		<u>SUBTO</u>	TALS:	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 I	NDIRECT COST =	\$3,261
TOTAL BO	ND AMOUNT (	direct + indirect) =	\$9,171

# BOREHOLE SEALING WORK

	Vedding Bell Project (S	Section	Permit Action:	Now Ann	Dormit	/Job#: P202	2010
Site: 2	s Area)	,		New App	Permu	JOD#: P202	.3010
		<b>N</b> T					
ROJEC	Γ IDENTIFICATIO	) N					
			Calarada		Abbroviation	None	
Task #:	001	State:	Colorado		Abbreviation:	None	
			Colorado San Miguel		Abbreviation: Filename:	None P010-001	

# **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

Wedding Bell Project (S 23 Area)	Section Permit Action:	New App	Permit/Job#: P2023010
PROJECT IDENTIFICA	ATION		
Task #: 002 Date: 6/27/2023 User: LJW	State: Colorado County: San Migue	1	Abbreviation:NoneFilename:P010-002
Agency or organiza	ation name: DRMS		
HOURLY EQUIPMENT	r cost		
	6T LGP		
Horsepower: 200	01 201		
Blade Type: Straig	ht		
	nk ripper		
Shift Basis: 1 per o			
Data Source: (CRG)			
Cost Breakdown:			
		Utilization %	
Ownership Cost/Hour:	\$75.83	NA	
Operating Cost/Hour:	\$66.34	100	
Ripper own.	\$8.37	NA	
Cost/Hour:		NA	
Ripper op. Cost/Hour:	\$0.00	0	
Operator Cost/Hour:	\$41.30	NA	
Initial Volume:       1,527         Swell factor:       1.000         Loose volume:       1,527 L         Source of estimated volume	LCY e:11 pads @ 2500SQFT	r, 1.5ft Depth avg / 27 f	for CY
Source of estimated swell factor:	Cat Handbook		
HOURLY PRODUCTIO	<u>DN</u>		
Average push distance:	50 feet		
Unadjusted hourly production:	444.6 LCY/hr		
Materials consistency descr	ription: Loose stockpile 1.2		
	0 %		
Average push () gradient:			
gradient:	2,700 feet		
gradient: Average site altitude:			
gradient: Average site altitude: 2 Material weight: 2	2,700 feet	, 75% Earth	
gradient: Average site altitude: 2 Material weight: 2	2,700 feet 2,650 lbs/LCY Decomposed rock - 25% Rock	, 75% Earth <u>Source</u>	

Task # 002

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

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

Total job time:	<b>7.57</b> Hours
Total job cost:	\$1,452

# BULLDOZER WORK

Wedding Bell Project e: 23 Area)				b disturbed		
<u></u>	et (Section	Per	mit Action:	New App	Permit/Jo	b#: P2023010
PROJECT IDENTIF	ICATION					
Task #: 003		State:	Colorado		Abbreviation:	None
Date: 6/27/2023		County:	San Miguel		Filename:	P010-003
User: LJW						
Agency or orga	nization nam	ne: DR	MS			
HOURLY EQUIPME	ENT COST	-				
Basic Machine: Ca	at D6T LGP					
Horsepower: 20				_		
· · ·	raight			_		
	shank ripper			-		
	per day			-		
<u></u>	CRG)			-		
Cost Breakdown:			Ì	<b></b>		
			Ø75 00	Utilization %		
Ownership Cost/Hour: Operating Cost/Hour:			\$75.83 \$66.34	<u>NA</u> 100		
Ripper own.						
Cost/Hour:			\$8.37	NA		
Ripper op. Cost/Hour:			\$0.00	0		
Operator Cost/Hour:			\$41.30	NA		
MATERIAL QUANT	TTIES					
Initial Volume: 218	2					
Swell factor: 1.0						
	B LCY					
Loose volume: 218						
· · · · · · · · · · · · · · · · · · ·	1100.01	00  As of	- roods over 1	5 ft door		
Loose volume: 218 Source of estimated vol Source of estimated sw factor:		.09 Ac of Cat Hand	roads, avg 1. book	5 ft deep		
Source of estimated vol Source of estimated sw	ell (			5 ft deep		
Source of estimated vol Source of estimated sw factor:	ell ( 			5 ft deep		
Source of estimated vol Source of estimated sw factor: HOURLY PRODUCT	ell ( — <u>FION</u> 50	Cat Hand	book	5 ft deep		
Source of estimated vol Source of estimated sw factor: HOURLY PRODUCT Average push distance: Unadjusted hourly	ell ( 	Cat Hand <u>feet</u> 4.6 LCY/	book	5 ft deep		
Source of estimated vol Source of estimated sw factor: <b>HOURLY PRODUC</b> Average push distance: Unadjusted hourly production: Materials consistency d Average push	ell ( 	Cat Hand <u>feet</u> 4.6 LCY/	book	5 ft deep		
Source of estimated vol Source of estimated sw factor: <b>HOURLY PRODUC</b> Average push distance: Unadjusted hourly production: Materials consistency d	ell ( 	feet 4.6 LCY/ Loose s	book	5 ft deep		
Source of estimated vol Source of estimated sw factor: <b>HOURLY PRODUC</b> Average push distance: Unadjusted hourly production: Materials consistency d Average push gradient:	ell ( <u>FION</u> <u>50</u> 44 escription: 0 %	Cat Hand feet 4.6 LCY Loose s	book	5 ft deep		
Source of estimated vol Source of estimated swi factor: <b>HOURLY PRODUC</b> Average push distance: Unadjusted hourly production: Materials consistency d Average push gradient: Average site altitude:	ell	Cat Hand feet 4.6 LCY Loose s	book			

Task # 003

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

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

Total job time:	1.08 Hours	
Total job cost:	\$207	

# BULLDOZER RIPPING WORK

Site 23 Area) Permit Action: New App PROJECT IDENTIFICATION PROJECT IDENTIFICATION Task #: 004 State: Colorado Abbreviation: None Date: 0272023 County: San Miguel Abbreviation: None Date: 0272023 County: San Miguel Abbreviation: None Date: 0272023 County: San Miguel Pollo-004 User: 10W County EQUIPMENT COST Busic Machine: Cat DGT LGP Horsepower: 200 Ripper Attachment: 3-Shank Ripper Data Source: (CRG) Cost Breakdown: Cost Breakdown: Cost Breakdown: Cost Breakdown: Cost Breakdown: Cost Breakdown: Ooperating Cost/Hour: 575.83 Ripper Ownership Cost/Hour: 586.33 NA Ripper Operating Cost/Hour: 5196.83 Total Unit Cost/Hour: 5196.83 Total Fleet Cost/Hour: 5196.83 Total Fleet Cost/Hour: 100 Source of estimated quantity: Pad Areas + 30% of Access Roads HOURLY PRODUCTION Sciennic: Area: Average Ripping Depth: 1.64 Average Ripping Unght: 6.58 Average Ripping Length: 6.55 Average Ripping Length: 6.55 Bit Altinude Adj: 1.00 (CAT HB) Job Efficiency: 0.83 multiplier Adjusted Hourly Unit Production: 0.46 Average Ripping L	Rip Compacted Areas	_
PROJECT IDENTIFICATION         Task #:       004         Date:       6/27/2023         County:       San Miguel         Agency or organization name:       DRMS         HOURLY EQUIPMENT COST       Basic Machine:       Cat DOT LGP         Ripper Attachment:       3-Shank Ripper       Horsepower:       200         Shift Basis:       1 per day       Data Source:       (CRG)         Cost Breakdown:       Utilization %       NA       Ownership Cost/Hour:       \$156.33       NA         Operating Cost/Hour:       \$156.33       NA       Oomership Cost/Hour:       \$196.83       NA         Operator Cost/Hour:       \$196.83       Total Unit Cost/Hour:       \$196.83       NA         Total Fleet Cost/Hour:       \$196.83       Total Fleet Cost/Hour:       \$196.83         MATERIAL OUANTITIES       Selected estimating method:       Area         Alternate Methods:       Total Fleet Cost/Hour:       Pad Areas + 30% of Access Roads         MOURLY PRODUCTION       Seismic:       Seismic Velocity:       NA         Seismic:       Seismic Velocity:       NA       feet/pass         Average Ripping Depth:       1.64       feet/pass       Average Ripping Length:         Average Ripping Length:		
Task #:       004       State:       County:       San Miguel       Abbreviation:       None         Date:       66272023       County:       San Miguel       Filename:       P010-004         User:       LW       Ageney or organization name:       DRMS       P010-004       P010-004         HOURLY EQUIPMENT COST       Basic Machine:       Cat DOT LGP       Horsepower:       200         Ripper Attachment:       3-Shank Ripper       Data Source:       (CRG)         Ownership Cost/Hour:       \$75.83       NA         Operating Cost/Hour:       \$66.34       100         Operator Cost/Hour:       \$83.37       NA         Ripper Ownership Cost/Hour:       \$196.83       Total Unit Cost/Hour:       \$196.83         Total Unit Cost/Hour:       \$196.83       Total Fleet Cost/Hour:       \$196.83         MATERIAL OUANTITIES       Selected estimating method:       Area         Alternate Methods:       nic:       NA       BCY       NA         rea:       0.72       acres       Rip Depth (f)       1.00       Volume:       1.162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       Average Ripping Depth:       6.64       feet/pass         Average Ripping Depth:		
Date:       6/27/2023       County:       San Miguel       Filename:       P010-004         User:       LW       Agency or organization name:       DRMS           HOURLY EQUIPMENT COST       Basic Machine:       Cat DGT LGP       Horsepower:       200         Ripper Attachment:       3-Shank Ripper       Shift Basis:       I per day         Data Source:       (CRG)         Cost Breakdown:       Stora Stora       Vilization %         Ownership Cost/Hour:       \$56.3.4       100         Operating Cost/Hour:       \$56.3.4       100         Operating Cost/Hour:       \$196.83       NA         Ripper Operating Cost/Hour:       \$196.83       NA         Total Vini Cost/Hour:       \$196.83       NA         Total Pleet Cost/Hour:       \$196.83       NA         Alternate Methods:       interate Methods:       NA         nice:       NA       BCY       NA         O22       acres       Rip Depth (ft):       1.00       Volume:       1.162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       NA         PouckLy PRODUCTION       Seismic:       Seismic Velocity:       NA       feet/second         Areag	<u>ATION</u>	
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:       \$100       Store:       (CRG)         Operating Cost/Hour:       \$56.34       100       (CRG)         Operating Cost/Hour:       \$58.37       NA       NA         Operator Cost/Hour:       \$54.99       100       Operator Cost/Hour:       \$5196.83         Total Unit Cost/Hour:       \$196.83       Total Unit Cost/Hour:       \$196.83         Total Fleet Cost/Hour:       \$196.83       Total Pleet Cost/Hour:       1.162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       NA         HOURLY PRODUCTION       Source of estimated quantity:       Pad Areas + 30% of Access Roads         HOURLY PRODUCTION       Source Speed:       88.00       feet/pass         Average Ripping Depth:       1.64       feet/pass       feet/pass         Average Ripping Ungth:       6.58       feet/pass       Average Ripping Vidht:       6.58         Average Ripping Depth:       1.64       feet/pass       feet/pass       Production per unit area:       0.054		
Basic Machine:       Cat DT LGP       Horsepower:       200         Ripper Attachment:       3-Shank Ripper       Shift Basis:       1 per day         Cost Breakdown:       Utilization %       NA         Operating Cost/Hour:       \$75.83       NA         Operating Cost/Hour:       \$86.34       100         Ripper Ownership Cost/Hour:       \$84.39       NA         Operator Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$196.83       Total Unit Cost/Hour:       \$196.83         Total Fleet Cost/Hour:       \$196.83       Total Fleet Cost/Hour:       \$196.83         MATERIAL OUANTITIES       Selected estimating method:       Area         Alternate Methods:       in:       NA       BCY       NA         rea:       0.72       acres       Rip Depth (ft):       1.00       Volume:       1,162         Source of estimated quantity:       Pad reas + 30% of Access Roads       HOURLY PRODUCTION         Seismic:       Seismic Velocity:       NA       feet/pass         Average Ripping Depth:       1.64       feet/pass       Average Naneuver Time:       0.25         Average Ripping Length:       50.00       feet/pass       Average Maneuver Time:       0.25       acres/hour </td <td>zation name: DRMS</td> <td></td>	zation name: DRMS	
Ripper Attachment:       3-Shank Ripper       Shift Basis:       1 per day (CRG)         Cost Breakdown:       Utilization %       (CRG)         Ownership Cost/Hour:       \$75.83       NA         Operating Cost/Hour:       \$66.34       100         Ripper Ownership Cost/Hour:       \$66.34       100         Operating Cost/Hour:       \$66.34       100         Operator Cost/Hour:       \$196.83       100         Total Unit Cost/Hour:       \$196.83       100         Atternate Methods:       acres       Rip Depth (ft):       1.00         Alternate Methods:       acres       Rip Depth (ft):       1.00       Volume:       1.162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       MA       Access Roads         HOURLY PRODUCTION       Seismic Velocity:       NA       feet/second         Area:       Average Ripping Depth:       1.64       feet/pass         Average Ripping Depth:       0.554       acres/hour       1.54         Average Maneuver Time:       0.25       minutes/pass       Production per unit area:       0.554       acres/hour         Job Condition Correction Factors       Unadjusted Hourly Unit Production:       0.46       Acres/hr       Ajusted Hourly Unit Produc	T COST	
Image: Cost Breakdown:       Data Source:       (CRG)         Cost Breakdown:       Utilization %       NA         Operating Cost/Hour:       \$56,34       100         Ripper Operating Cost/Hour:       \$56,34       100         Operator Cost/Hour:       \$54,39       100         Operator Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$41,30       NA         Total Unit Cost/Hour:       \$196,83         MATERIAL QUANTITIES       Selected estimating method:       Area         Alternate Methods:       ************************************	Cat D6T LGP Horsepower: 200	
Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$75.83       NA         Operating Cost/Hour:       \$8.37       NA         Ripper Ownership Cost/Hour:       \$8.37       NA         Ripper Operating Cost/Hour:       \$8.37       NA         Ripper Operating Cost/Hour:       \$41.30       NA         Operator Cost/Hour:       \$196.83         Total Unit Cost/Hour:       \$196.83         MATERIAL QUANTITIES       Selected estimating method:       Area         Alternate Methods:       neres       Bank Volume:       NA       BCY       NA         ea:       0.72       acres       Bank Volume:       NA       BCY       NA         ea:       0.72       acres       Rip Depth (ft):       1.00       Volume:       1,162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       MA       Average Ripping Depth:       6.58       feet/pass         Average Ripping Length:       50.00       feet/pass       Average Ripping Length:       6.53       feet/pass         Average Ripping Length:       50.00       feet/pass       Average Ripping Length:       0.554       Acres/hr         Average Ripping Length:       0.554       Acres/hr       Site		
Image: Control of the second secon	Data Source: (CRG)	
Ownership Cost/Hour:       \$75.83       NA         Operating Cost/Hour:       \$86.34       100         Ripper Operating Cost/Hour:       \$8.37       NA         Ripper Operating Cost/Hour:       \$4.99       100         Operator Cost/Hour:       \$41.30       NA         Total Unit Cost/Hour:       \$196.83         MATERIAL QUANTITIES       Selected estimating method:       Area         Alternate Methods:       io:       NA       BCY       NA         cares       Rip Depth (ft):       1.00       Volume:       1,162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       POURLY PRODUCTION         Seismic:       Seismic Velocity:       NA       feet/second         Area:       Average Ripping Depth:       1.64       feet/seas         Average Ripping Uegth:       50.00       feet/seas         Average Ripping Width:       6.58       feet/mass         Average Ripping Uogtris       0.554       acres/hour         Job Condition Correction Factors       Unadjusted Hourly Unit Production:       0.554       Acres/hr         Job Efficiency:       0.83       (1 shift/day)       Net Correction:       0.83       (1 shift/day)         Net Correction: <td< td=""><td></td><td></td></td<>		
Operating Cost/Hour:       \$66.34       100         Ripper Ownership Cost/Hour:       \$8.37       NA         Ripper Operating Cost/Hour:       \$14.30       NA         Total Unit Cost/Hour:       \$196.83         Total Fleet Cost/Hour:       \$196.83         MATERIAL QUANTITIES       Selected estimating method:       Area         Alternate Methods:		
Ripper Ownership Cost/Hour:       \$8.37       NA         Ripper Operating Cost/Hour:       \$41.30       NA         Operator Cost/Hour:       \$196.83         Total Unit Cost/Hour:       \$196.83         MATERIAL OUANTITIES       Selected estimating method:       Area         Alternate Methods:       in:       NA       BCY       NA         nic:       NA       BCY       NA       NA         ea:       0.72       acres       Rip Depth (ft):       1.00       Volume:       1,162         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 Depth:       0.00       feet/pass       Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       0.25       minutes/pass       acres/hour       Job Eduction per unit area:       0.554       Acres/hr         Job Eduction Pactors       Unadjusted Hourly Unit Production:       0.83       (1 shift/day)       Net Correction:       0.83       multiplier         Adjusted Hourly Unit Production:       0.46		
Matrix       Selected estimating method:       Area         Matrix       S196.83         Total Unit Cost/Hour:       S196.83         Matrix       Selected estimating method:       Area         Alternate Methods:       Selected estimating method:       Area         Alternate Methods:       Bank Volume:       NA       BCY       NA         ea:       0.72       acres       Bip Depth (ft):       1.00       Volume:       1,162         Source of estimated quantity:       Pad Areas + 30% of Access Roads       HOURLY PRODUCTION       Seismic:       Seismic Velocity:       NA       feet/pass         Average Ripping Depth:       1.64       feet/pass       feet/pass       feet/pass         Average Ripping Length:       50.00       feet/pass       Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       6.58       feet/pass       acres/hour       Job Condition Correction Factors         Unadjusted Hourly Unit Production:       0.554       acres/hr       acres/hr         Site Altitude Adj:       1.00       (CAT HB)       Job Efficiency:       0.83       multiplier         Job Efficiency:       0.83       (1 shift/day)       Net Correction:       0.83       multiplier <td></td> <td></td>		
Total Unit Cost/Hour:       \$196.83         Total Fleet Cost/Hour:       \$196.83         MATERIAL QUANTITIES       Selected estimating method:       Area         Alternate Methods:		
Total Fleet Cost/Hour:       \$196.83         MATERIAL QUANTITIES       Selected estimating method:         Alternate Methods:		
MATERIAL QUANTITIES       Selected estimating method:       Area         Alternate Methods:	Init Cost/Hour: \$196.83	
Alternate Methods:         nic:       NA       Bank Volume:       NA       BCY       NA         rea:       0.72       acres       Rip Depth (ft):       1.00       Volume:       1,162         Source of estimated quantity:       Pad Areas + 30% of Access Roads         HOURLY PRODUCTION         Seismic:         NA         Average Ripping Depth:       1.64       feet/second         Area:       Average Ripping Depth:       6.58       feet/pass         Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       0.25       minutes/pass         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 Correctio	leet Cost/Hour:\$196.83	
Source of estimated quantity: Pad Areas + 30% of Access Roads         HOURLY PRODUCTION         Seismic:       NA       feet/second         Area:       NA       feet/pass         Average Ripping Depth:       1.64       feet/pass         Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       50.00       feet/pass         Average Ripping Length:       50.00       feet/pass         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       multiplier         Adjusted Hourly Unit Production:       0.46       Acres/hr		BCY o
HOURLY PRODUCTION         Seismic:       NA       feet/second         Area:       Average Ripping Depth:       1.64       feet/pass         Average Ripping Length:       50.00       feet/pass         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       multiplier         Adjusted Hourly Unit Production:       0.46       Acres/hr		bert
Seismic:       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       Site Altitude:       6,700       feet         Altitude Adj:       1.00       (CAT HB)       Job Efficiency:       0.83       (1 shift/day)         Job Efficiency:       0.83       multiplier       0.46       Acres/hr		
Area:NAfeet/secondArea:1.64feet/passAverage Ripping Depth:1.64feet/passAverage Ripping Width:6.58feet/passAverage Ripping Length:50.00feet/passAverage Dozer Speed:88.00feet/minuteAverage Maneuver Time:0.25minutes/passProduction per unit area:0.554acres/hourJob Condition Correction FactorsUnadjusted Hourly Unit Production:0.554Acres/hrSite Altitude:6,700feetAltitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hr	<u>UN</u>	
Area:Average Ripping Depth: Average Ripping Width:1.64 6.58feet/pass feet/pass feet/pass Average Ripping Length:50.00 50.00feet/pass feet/pass heet/minuteAverage Ripping Length:50.00 50.00feet/minuteAverage Dozer Speed:88.00 88.00feet/minuteAverage Maneuver Time:0.25 0.554minutes/pass acres/hourJob Condition Correction Factors0.554Acres/hrUnadjusted Hourly Unit Production:0.554Acres/hrSite Altitude: Job Efficiency:6,700 0.83 (1 shift/day) multiplierAdjusted Hourly Unit Production:0.46 0.46Acres/hr	Seismic Velocity: NA feet/second	
Average Ripping Depth:1.64feet/passAverage Ripping Width:6.58feet/passAverage Ripping Length:50.00feet/passAverage Dozer Speed:88.00feet/minuteAverage Maneuver Time:0.25minutes/passProduction per unit area:0.554acres/hourJob Condition Correction Factors0.554Acres/hrSite Altitude:6,700feetAltitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hr		
Average Ripping Width:6.58feet/passAverage Ripping Length:50.00feet/passAverage Dozer Speed:88.00feet/minuteAverage Maneuver Time:0.25minutes/passProduction per unit area:0.554acres/hourJob Condition Correction FactorsUnadjusted Hourly Unit Production:0.554Acres/hrSite Altitude:6,700feetAltitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hr	verage Rinning Denthy 1.64 feet/pass	
Average Ripping Length:50.00feet/passAverage Dozer Speed:88.00feet/minuteAverage Maneuver Time:0.25minutes/passProduction per unit area:0.554acres/hourJob Condition Correction FactorsUnadjusted Hourly Unit Production:0.554Acres/hrSite Altitude:6,700Altitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hr		
Average Maneuver Time:0.25minutes/passProduction per unit area:0.554acres/hourJob Condition Correction Factors0.554Acres/hrUnadjusted Hourly Unit Production:0.554Acres/hrSite Altitude:6,700feetAltitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hr	verage Ripping Length: 50.00 feet/pass	
Production per unit area:       0.554       acres/hour         Job Condition Correction Factors       0.554       Acres/hr         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		
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	· · · · · · · · · · · · · · · · · · ·	
Unadjusted Hourly Unit Production:0.554Acres/hrSite Altitude:6,700feetAltitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hrAdjusted Hourly Fleet Production:0.46Acres/hr		
Site Altitude:6,700feetAltitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hrAdjusted Hourly Fleet Production:0.46Acres/hr		
Altitude Adj:1.00(CAT HB)Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hrAdjusted Hourly Fleet Production:0.46Acres/hr	·	
Job Efficiency:0.83(1 shift/day)Net Correction:0.83multiplierAdjusted Hourly Unit Production:0.46Acres/hrAdjusted Hourly Fleet Production:0.46Acres/hr		
Adjusted Hourly Unit Production:0.46Acres/hrAdjusted Hourly Fleet Production:0.46Acres/hr		
Adjusted Hourly Fleet Production: <b>0.46</b> Acres/hr		
JOB TIME AND COST	•	
	ſ	
	_	

		-
Unit cost:	\$428.158	Per acre

Total job cost:

\$308

# **REVEGETATION WORK**

,	Fask descrip	otion:	Cost Summar	y			
Wedding Bell Project (SectionSite:23 Area)		(Section I	tion Permit Action:		Permit/Jo	b#: P2023010	
<u>P</u>	ROJECT	IDENTIFIC	CATION				
	Task #:	005	State	: Colorado		Abbreviation:	None
	Date:	6/27/2023	County	: San Migue	1	Filename:	P010-005
	User:	LJW		-			-

# **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 Stoc	ek Cost / Acre	\$0.00

	No. of Acres:	0.72	Cost /Act	re: \$533.93
Estimate	ed Failure Rate:	50%	Cost /Acre	*: \$533.93
*Selected Replanting	ng Work Items:	SEEDING		
Initial Job Cost: Reseeding Job Cost:	\$192.21		_	
Total Job Cost: Job Hours:			_	

### Page 1 of 2

# **REVEGETATION WORK**

-	Fask descrip	otion:	Secondary See	ling			
Site:	Wedding 23 Area)	Bell Project	(Section P	ermit Action:	New App	Permit/Jo	b#: <u>P2023010</u>
<u>P</u>	<u>ROJECT</u>	IDENTIFIC	CATION				
	Task #:	006	State:	Colorado		Abbreviation:	None
	Date:	6/27/2023	County:	San Migue	1	Filename:	P010-006
	User:	LJW					

# **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 Stoc	ek Cost / Acre	\$0.00

Estimated Failure Rate: 50% Cost /Acre*: \$533.93	
*Selected Replanting Work Items: SEEDING	
Initial Job Cost: \$192.21	
Reseeding Job Cost: \$96.11	
Total Job Cost: \$288	
Job Hours: <b>8.00</b>	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	Mob	ilization					
Wedding Bell 23 Area)	Project (Sectio	n Permit	Action:New_	Арр		Permit/Job#: <u>P2</u>	2023010
PROJECT IDE	NTIFICATIO	<u>N</u>					
Task #: 00	7	State: Co	olorado		Abbro	eviation: None	
Date: 6/2 User: LJ	27/2023 W	County: Sa	n Miguel		F	ilename: P010-	-007
Agency	or organization i	name: DRMS					
<b>EQUIPMENT</b>	FRANSPORT	RIG COST					
					Shift ba	usis: 1 per da	у
				(	Cost Data Sou	rce: CRG Da	ta
Truc	k Tractor Descri	ption: GENE	RIC ON-HIGH		JCK TRACT( (2ND HALF,	OR, 6X4, DIESEL 2006)	POWERED,
Truc	k Trailer Descri	ption: G	ENERIC FOLD			ROP DECK EQU	IPMENT
	-	L			(25T, 50T, Al		
Cost Breakdown:							
Available Rig C	Capacities	0-25 Tons	26-50 Tons	51+	- Tons		
	p Cost/Hour:	\$15.25	\$23.06	\$3	37.58		
Operating	g Cost/Hour:	\$25.26	\$30.83		51.41		
	r Cost/Hour:	\$27.71	\$27.71	\$2	27.71		
	r Cost/Hour:	\$0.00	\$20.22		20.22		
Total Uni	t Cost/Hour:	\$68.22	\$101.82	\$1	36.92		
NON ROADAE	BLE EQUIPM	ENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
ĩ	(TONS)		t		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

# **EQUIPMENT HAUL DISTANCE and Time**

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

Haul Time (Hours):	Non- Roadable Equipment 0.60	Roadable Equipment 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**