

1313 Sherman St. Room 215 Denver, CO 80203

April 5, 2018

Mr. George Glasier Pinon Ridge Mining LLC P O Box 825 31161 Highway 90 Nucla, CO 81424

Re: Sunday Mine, Permit No. M-1977-285, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Glasier:

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). Therefore, pursuant to Section 34–32–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Friday, June 08, 2018. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$330,242.00. This is an increase of \$32,316.00 over the \$297,926.00 currently held by the Division. This estimate is based on conditions observed during the March 28, 2018 inspection.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria. If you require additional information, have questions or concerns, please contact me at the DRMS Grand Junction Field Office or by email at lucas.west@state.co.us.

Sincerely,

Lucas J. West

Environmental Protection Specialist Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215

Denver, CO 80203 **Phone:** (970)-243-6368



Enclosure: Reclamation Cost Estimate Worksheets

cc:

Barbara J. Coria, DRMS George Glasier, Pinon Ridge Mining LLC Russ Means, Senior Environmental Protection Specialist

Ec: James Blair, Bureau of Land Management

COST SUMMARY WORK

Task description: Cost summary

Site: Sunday Mine Permit Action: 2018 Update Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None Date: 4/3/2018 County: San Miguel

User: LJW

Agency or organization name: DRMS

Filename:

M285-000

TASK LIST (DIRECT COSTS)

001	Description Demolition of structures, underground or onsite disposal Portal closure (backfilling) Downhill dozing of waste dump Rough grading on top of pad and against cut face	Used DEMOLISH MINESEAL	Size 1	Hours 32.00	Cost \$21,388.61
002 P 003 E 004 R 005 L 006 V 007 V 008 V 009 V 010 V 011 V 012 V 014 II 015 R 016 R	disposal Portal closure (backfilling) Downhill dozing of waste dump	MINESEAL	1	32.00	\$21,388.61
003 E 004 R 005 L 006 V 007 V 008 V 009 V 010 V 011 V 012 V 014 In 015 R 016 R	Downhill dozing of waste dump				
004 R 005 L 006 V 007 V 008 V 009 V 010 V 011 V 012 V 014 In 015 R 016 R			1	40.00	\$19,197.00
005	Dough grading on ton of ned and assince and f	DOZER	2	28.25	\$13,592.00
006 V 007 V 008 V 009 V 010 V 011 V 012 V 014 II 015 R 016 R 017 R		DOZER	2	70.06	\$33,714.00
007 V 008 V 009 V 010 V 011 V 012 V 014 II 015 R 016 R 017 R	Lateral dozing of dump face	DOZER	2	12.99	\$6,250.00
008 V 009 V 010 V 011 V 012 V 014 II 015 R 016 R	Vent shaft closure S-1	MINESEAL	1	24.00	\$3,098.22
009 V 010 V 011 V 012 V 014 II 015 R 016 R 017 R	Vent shaft closure S-2	MINESEAL	1	24.00	\$3,098.22
010 V 011 V 012 V 014 II 015 R 016 R 017 R	Vent shaft closure S-3	MINESEAL	1	24.00	\$3,098.22
011 V 012 V 014 II 015 R 016 R 017 R	Vent shaft closure S-4	MINESEAL	1	24.00	\$3,098.22
012 V 014 II 015 R 016 R 017 R	Vent shaft closure S-7	MINESEAL	1	24.00	\$3,098.22
014 II 015 R 016 R 017 R	Vent shaft closure S-8	MINESEAL	1	24.00	\$3,098.22
015 R 016 R 017 R	Vent shaft closure S-15	MINESEAL	1	24.00	\$3,098.22
016 R 017 R	Install atmospheric bulkheads underground	MINESEAL	1	48.00	\$2,668.00
017 R	Rip (older) vent shaft roads	RIPPER	1	1.59	\$395.00
	Rip new vent shaft pads	RIPPER	1	1.69	\$418.00
	Rip new vent shaft roads	RIPPER	1	3.58	\$887.00
018 R	Rip (older) vent shaft pads	RIPPER	1	1.69	\$418.00
019 R	Rip portal pad and dump areas	RIPPER	1	8.11	\$2,009.00
020 G	Grade new vent shaft roads	DOZER	1	2.23	\$537.00
021 G	Grade (older) vent shaft roads	DOZER	1	1.38	\$331.00
022 G	Grade (older) vent shaft pads	DOZER	1	1.40	\$337.00
024 C	Carry topsoil up to pad for spreading	TRUCK1	1	3.95	\$1,165.00
025 S	Spread topsoil on pad	DOZER	1	1.37	\$329.00
026 H	Haul low grade ore underground	LOADER	4	152.36	\$48,487.00
027 R	Remove and backfill ore pad liner and gravel	LOADER	1	3.96	\$378.00
028 R	Revegetate (older) vent shaft pads and vent roads	REVEGE	1	4.00	\$3,007.00
029 R	Revegetate new vent shaft pads and vent roads	REVEGE	1	6.00	\$4,887.00
030 R	Revegetate "affected area" at portal pad and dump	REVEGE	1	24.00	\$41,349.00
	Haul reclamation equipment to and from site	MOBILIZE	1	8.00	\$9,288.00
		624.61	\$232,718		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$4,700.90

Cost Summary Worksheet Cont'd	Task # 000		Page 2 of 2
Performance bond: 1.05 Job superintendent: 341.21 Profit: 10.00	CONTRACT AMOUN	Total = Total = Total = Total = TOTAL O & P = T (direct + O & P) =	\$2,443.54 \$24,925.39 \$23,271.80 \$55,341.63 \$288,059.63
LEGAL - ENGINEERING - PROJECT MAN	AGEMENT:		
Financial warranty processing (legal/relation Engineering work and/or contract/bid page Reclamation management and/or adm	reparation: 7.22	Total = Total =	0.00 \$20,797.91 \$14,402.98
CONTI	NGENCY: 3.00	Total =	\$6,981.54

TOTAL INDIRECT COST = \$97,524.06

TOTAL BOND AMOUNT (direct + indirect) = __\$330,242.06

DEMOLITION WORK

Task description:

Demolition of structures, underground or onsite disposal

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #:

Date:

User:

001

LJW

4/3/2018

Colorado State: County: San Miguel Abbreviation: None M285-001

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Warehouse/wash bay	44x16x12	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push			\$0.18	\$874.24
Auxiliary bldg.	14x20x10	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	2,800.00	CF	\$0.18	\$501.20
West shop	40x40x15	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 200 ft. push	24,000.00	CF	\$0.18	\$4,296.00
Office and dry	50x36x15	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	27,000.00	CF	\$0.17	\$4,698.00
Small items warehouse	28x12x10	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	3,360.00	CF	\$0.17	\$584.64
Compressor bldg.	20x40x15	Bldg. (SN) demo./on- site disposal in existing pit or cut - Max. 50 ft. push	12,000.00	CF	\$0.17	\$2,088.00
Warehouse/wash bay slab	44x16	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	704.00	SF	\$0.41	\$286.53
Warehouse/wash bay ext. slab	19x19	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	361.00	SF	\$0.41	\$146.93
Auxiliary bldg. slab	14x20	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	280.00	SF	\$0.41	\$113.96
West shop slab	40x40	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	1,600.00	SF	\$0.41	\$651.20
West shop ext. (W) slab	36x36	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	1,296.00	SF	\$0.41	\$527.47

West shop sidewalk	4x36	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	144.00	SF	\$0.41	\$58.61
West shop ext. (S) slab	12x40	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	480.00	SF	\$0.41	\$195.36
East shop slab	41x35	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	1,435.00	SF	\$0.41	\$584.05
Attached storage slab	12x26	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	312.00	SF	\$0.41	\$126.98
Attached storage slab	12x12	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	144.00	SF	\$0.41	\$58.61
East shop ext. (W) slab	35x13	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	455.00	SF	\$0.41	\$185.19
Office and dry slab	50x36	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	1,800.00	SF	\$0.41	\$732.60
Office and dry sidewalk	90x4	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 50 ft. push	360.00	SF	\$0.40	\$143.28
Small items warehouse slab	28x12	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 50 ft. push	336.00	SF	\$0.40	\$133.73
Compressor bldg. slab	20x16	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 50 ft. push	320.00	SF	\$0.40	\$127.36
Compressor bldg. slab	20x40	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 50 ft. push	800.00	SF	\$0.40	\$318.40
Denison-owned powerlines	3800 LF single poles	Disposal of utility pole cross arms and hardware surplus material	3,800.00	LF	\$0.01	\$38.00
Misc debris/materials	50x60x10 mass	Push demolished materials/rubble/debris into pit - Max. 200 ft. push	1,111.00	CY	\$0.83	\$917.69
Denison-owned non- PCB transformers	20x20x48 inch	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	6.00	DRUM	\$614.14	\$3,684.84

_		
Dama	Worksheet	Cantid
Demo	WURSHEEL	Com a

Task # TTT

Page 3 of 3

Job Hours: <u>32.00</u>

Subtotal

(unadjusted): \$22,072.87

Total Cost (adjusted for

location): _____\$21,388.61

Task description:

Portal closure (backfilling)

Site: Sunday Mine

Permit Action: _2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #: _

002

State: Colorado

Abbreviation:

None

Date: _

4/3/2018 User: LJW

County: San Miguel

Filename:

M285-002

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Portal, backfill debris in adit	10x10	Adit closure - backfilling (per cu. yd.)	600.00	CY	\$27.00	\$16,200.00
Portal, backfill overburden/earth	10x10	Adit closure - backfilling (per cu. yd.)	111.00	CY	\$27.00	\$2,997.00

Job Hours: _____40.00

Total Cost: \$19,197.00

Task description:	Downhill dozin	g of waste dum	р		
ite: Sunday Mine	Pe	ermit Action:	2018 Update	Permit/Jo	b#: <u>M1977285</u>
PROJECT IDE	NTIFICATION				
Task #:	/2018 County:	Colorado San Miguel		Abbreviation: Filename:	None M285-003
Agency	or organization name:D	RMS			
HOURLY EQU	IPMENT COST				
Basic Machine Horsepower Blade Type Attachment Shift Basis Data Source	Semi-Universal S-shank ripper I per day				
Cost Breakdown: Ownership Cost		\$100.59	Utilization % NA		
Operating Cost	/Hour:r own.	\$87.23	100		
	/Hour:	\$10.94	NA		
Ripper op. Cost		\$0.00 \$41.85	0 NA		
MATERIAL OI Initial Volume: Swell factor:	31,500 1.335	_			
Loose volume: Source of estimate Source of estimate factor:	Cat Hand		n, Mining & Safety		
Average push dis Unadjusted hourl production:	stance: 120 feet	CY/hr	_		
Materials consist	ency description: Conso	lidated stockpile	e 1.0	П	
Average push gradient: Average site altit	-25 % ude: 5,800 feet		5		
Material weight:	2,550 lbs/LCY				
Weight description	on: Sandstone				
Job Condition Corr	ection Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:

744.40 LCY/hr

Adjusted fleet production:

1488.8 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.323/LCY

Total job time: 28.25 Hours
Total job cost: \$13,592

Task description:	Rough	grading	on top of pad	and against cut face		
Site: Sunday Mine	72	_ Pe	rmit Action:	2018 Update	Permit/Job	#: <u>M1977285</u>
PROJECT IDENT	TIFICATION	1				
Task #: 004		State:	Colorado		Abbreviation:	None
Date: 4/3/20)18	County:	San Miguel		Filename:	M285-004
User: LJW		County.	Sun Miguel		i nename.	141265-004
	organization na	me: DI	RMS			
HOURLY EQUIP		(2			-	
Basic Machine:	Cat D9T - 98	_				
Horsepower:	405			-	120	
Blade Type:	Semi-Univer	sal		•		
Attachment:	3-shank rippe			-		
Shift Basis:	1 per day			-		
Data Source:	(CRG)			-		
-	(6113)			_		
Cost Breakdown:			1	******* .* ***		
0 11 0 471			#100 50	<u>Utilization %</u>		
Ownership Cost/He			\$100.59	NA 100		
Operating Cost/He			\$87.23	100		
Ripper o Cost/He			\$10.94	NA		
Ripper op. Cost/He			\$0.00	0		
Operator Cost/He			\$41.85	NA	 	
operator contra			411.02	14/1		
Total unit Cost/Hou	r: \$240.61					
Total Fleet Cost/Ho	ur: \$481.21					
MA PEDIAL OU	NIMETER					
MATERIAL QUA	NTTTIES					
Initial Volume:	29,800					
Swell factor:	1.335		_			
Loose volume:	39,783 LCY		_			
			_			
Source of estimated	_			on, Mining & Safety		
Source of estimated	swell	Cat Hand	lbook			
factor:	-					
HOURLY PRODU	JCTION					
A		00 f4				
Average push distar		00 feet	- /1			
Unadjusted hourly	7	00.0 LCY	/h r			
production:	_					
Materials consistend	cy description:	Conso	lidated stockp	ile 1.0		
Average push	5 %					
gradient:	J / U					
Average site altitude	e: 5,800 fe	et				
Material weight:	2,550 lt				_	
Weight description:	Sandsto	ne		n		
Job Condition Correc	tion Factor			Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:

283.92 LCY/hr

Adjusted fleet production:

567.84 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.847/LCY

Total job time: 70.06 Hours
Total job cost: \$33,714

Task description:	Lateral dozing of dump fa	ice		
Site: Sunday Mine	Permit Action	n: 2018 Update	Permit/Job	o#: <u>M1977285</u>
PROJECT IDENTIFI	CATION			
Task #: 005 Date: 4/3/2018 User: LJW	State: Colorade County: San Mig		Abbreviation: Filename:	None M285-005
Agency or organ	nization name: DRMS		75	
HOURLY EQUIPME	NT COST			
Horsepower: 40.5 Blade Type: Ser Attachment: 3-s Shift Basis: 1 p	ED9T - 9SU ni-Universal hank ripper er day RG)			
Cost Breakdown:		Utilization %		
Ownership Cost/Hour: Operating Cost/Hour:	\$100.59 \$87.23			
Ripper own. Cost/Hour:	\$10.94			
Ripper op. Cost/Hour:	\$0.00			
Operator Cost/Hour:	\$41.85	NA		
	0 5 16 LCY			
Source of estimated volu Source of estimated swel factor:		ation, Mining & Safety		
HOURLY PRODUCT	<u>ION</u>			
Average push distance: Unadjusted hourly production:	150 feet 910.5 LCY/hr			
Materials consistency de	scription: Consolidated stoc	kpile 1.0		
Average push gradient: Average site altitude:	-10 %			
Average site attitude: Material weight:	5,800 feet 2,550 lbs/LCY			
			_	
Weight description: Job Condition Correction I	Sandstone	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:

501.05 LCY/hr

Adjusted fleet production:

1002.1 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.480/LCY

Total job time: 12.99 Hours
Total job cost: \$6,250

Task description:

Vent shaft closure S-1

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #:

006

State: Colorado

Abbreviation: None

Date: _

4/3/2018

County: San Miguel

Filename: M285-006

User: LJW

Agency or organization name: DRMS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours:	24.00	Total Cost:	\$3,098.22

Task description:

Vent shaft closure S-2

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #: _

007

State: Colorado

Abbreviation: None

Date: 4/3/2018

User: LJW

County: San Miguel

Filename: M285-007

Agency or organization name: DRMS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours:	24.00	Total Cost:	\$3,098.22

Task description:

Vent shaft closure S-3

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #:

800

State:

Colorado

Abbreviation: None

Date:

4/3/2018

County:

San Miguel

Filename: M285-008

User: LJW

Agency or organization name: __DRMS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours:	24.00	Total Cost:	\$3,098.22
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Task description:

Vent shaft closure S-4

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #:

009

State:

Colorado

Abbreviation:

None

Date:

4/3/2018 User: LJW

San Miguel County:

Filename:

M285-009

Agency or organization name: DRMS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours:	24.00	Total Cost:	\$3,098.22

Task description:

Vent shaft closure S-7

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #: __010

State: Colorado

Abbreviation: None

Date: 4/3/2018 User: LJW

County: San Miguel

Filename: M285-010

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours: 24.00 Total Cost: \$3,098.22

Task description:

Vent shaft closure S-8

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #:

011

State:

Colorado

Abbreviation:

None

Date: User: LJW

4/3/2018

County:

San Miguel

Filename:

M285-011

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours: 24.00

Total Cost: \$3,098.22

Task description:

Vent shaft closure S-15

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #:

012

State: Colorado

Abbreviation: None

Date: 4/3/2018

County: San Miguel

Filename: M285-012

User: LJW

Agency or organization name: DRMS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Remove steel fan/diffuser	6x6x4	USER PROVIDED ITEM	5.00	CY	\$16.00	\$80.00
Break concrete collar, push down shaft	12x12x1 ft	USER PROVIDED ITEM	85.00	SF	\$3.50	\$297.50
Cut off steel casing	6 ft diam x 3 ft H	USER PROVIDED ITEM	1.00	EA	\$945.00	\$945.00
Weld on steel plate	6'x6'x0.5"	USER PROVIDED ITEM	1.00	EA	\$315.00	\$315.00
Frame/reinf/pour concrete cap	6'x6'x6"	Shaft closure - concrete cap, poured-in-place (per Cubic Feet)	216.00	CF	\$6.67	\$1,440.72
Set location monument	NA	USER PROVIDED ITEM	1.00	EA	\$20.00	\$20.00

Job Hours:	24.00	Total Cost: \$3	3,098.22
JOS ZZOSZDI.		Total Cost. 9.	J9U JU: 44

Task description:

Install atmospheric bulkheads underground

Site: Sunday Mine

Permit Action: 2018 Update

Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #: 014

State:

Colorado

Abbreviation: None

Date: 4/3/2018

County: San Miguel

Filename: M285-014

User: LJW

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Underground workings	12x15	Adit closure - bulkhead seal (per opening)	1.00	EA	\$2,668.00	\$2,668.00

Job Hours: 48.00

Total Cost: \$2,668.00

Task description:	Rip (ole	ler) vent shaft roa	ds				
Site: Sunday Mine		Permit Actio	on: _2018 Updat	re	Permit/Jol	b#: <u>M19772</u>	85
PROJECT IDENT	TIFICATION						
Task #:015		State: Colorad	lo	Abb	reviation:	None	
Date: 4/3/20	18	County: San Mi	guel		Filename:	M285-015	
User: LJW		DD140					
	organization nar						
HOURLY EQUIP	MENT COST	<u> </u>					
Basic Mac		OT - 9SU		Horsepower:		405	
Ripper Attach	ment: 3-Shar	ık Ripper		Shift Basis: Data Source:		oer day CRG)	
Cost Breakdown:				Data Source.		orto)	•
Cost Broakdown.				Utilization %			
	wnership Cost/l		\$100.59	NA 100	_		
	Operating Cost/l wnership Cost/l		\$87.23 \$10.94	100 NA	_		
	Operating Cost/1		\$6.82	100	_		
	Operator Cost/l		\$41.85	NA	_		
Т	otal Unit Cost/l	Hour:	\$247.43		_		
T	otal Fleet Cost/I	Hour: \$2	247.43				
		•					
MATERIAL QUA	NTITIES	Se	lected estimating	g method: Are	а		
Alternate Methods:							_
		Doult Wolson	a. NA	DCV		NT A	
Seismic: NA Area: 1.18	acres	Bank Volum Rip Depth (ft		BCY Volume:	1,904	NA	BCY or CCY
	_			v ordine.	1,704		Be For ee F
		ed quantity: Pern	nit file				
HOURLY PRODU	<u>JCTION</u>						
Seismic:							
	Seis	mic Velocity:	NA	feet/se	cond		
Area:							
		ipping Depth:	2.00	mph			
		pping Width: pping Length:	7.67 500.00	degree feet	S		
		Dozer Speed:	88.00	feet			
		neuver Time:	0.25	feet			
	Production	per unit area:	0.891	acres/h	our		
Job Condition Correc	tion Factors						
Unadju	sted Hourly Un	it Production:	0.891	Acres/	hr		
		Site Altitude:	7,200	feet			
		Altitude Adj:	1.00	(CAT	HB)		
		b Efficiency:	0.83	(1 shift			
	No	et Correction:	0.83	multip	lier		
		rly Unit Production rly Fleet Production		Acres/hr Acres/hr			
JOB TIME AND O	COST						
Fleet size:		Grader(s)	Total job tin	ne:	1.60	Hours	
Unit cost:	334.7 <u>60</u> P	er acre	Total job co	ost:	\$395		

,	Task description:	Rip	new vent shaft p	oads					
Site:	Sunday Mine		Permit	Action:		e	Permit/Jo	b#: <u>M19772</u>	85
<u>P</u>	ROJECT IDE	NTIFICATIO	<u>ON</u>						
	Task #: 016		State: Co	olorado		Ab	breviation:	None	
	Date: 4/3/	2018	County: Sa	n Migue	1		Filename:	M285-016	
	User: LJV	V			· <u> </u>				
	Agency o	r organization	name: DRMS						
<u>H</u>	IOURLY EQUI	PMENT CO	<u>OST</u>						
	Basic M	fachine: Cat	D9T - 9SU			Horsepower:		405	
	Ripper Atta		hank Ripper		_	Shift Basis:		per day	
	7.				_	Data Source:		CRG)	
C	ost Breakdown:								
-=-					1	Utilization %			
		Ownership Co	st/Hour:		\$100.59	NA			
		Operating Co			\$87.23	100			
		Ownership Co			\$10.94	NA			
	Rippe	r Operating Co			\$6.82	100			
		Operator Co			\$41.85	NA			
		Total Unit Co	st/Hour:		\$247.43				
		Total Fleet Co	st/Hour:	\$247	.43				
	IATERIAL QU lternate Methods: NA		Bank V	Select	ed estimating	g method: <u>Ar</u> BCY	ea	NA	_
Area:	1.25	acres	Rip Dej	oth (ft):	1.00	Volume	2,017		BCY or CC
	:	Source of estin	nated quantity:	AM-2 (approved in 2	2007)			
п	IOURLY PROI								
		<u>JUCTION</u>							
26	eismic:	c	eismic Velocity:		NA	feet/se	acomd.		
			eisinic velocity.		NA NA		econa		
<u>A</u>	rea:								
			Ripping Depth:		2.00	mph			
			Ripping Width:		7.67	degree	es		
			Ripping Length: ge Dozer Speed:		500.00 88.00	feet feet			
			Maneuver Time:		0.25	feet			
			ion per unit area:		0.891	acres/	hour		
Jo	b Condition Corre		1						
			Unit Production:		0.891	Acres	/hr		
	Ollad	gustea Hourry					7111		
			Site Altitude: Altitude Adj:		7,200 1.00	feet (CAT	HB)		
			Job Efficiency:		0.83		ft/day)		
			Net Correction:		0.83	(1 siii multip			
		A 31 . 1 Y							
			Hourly Unit Prod Iourly Fleet Prod		0.74 0.74	Acres/hr Acres/hr			
J	OB TIME AND	•	•						
ē.	Fleet size:	1	Grader(s)		Total job tin	ne:	1.69	Hours	
					-				
	Unit cost:	\$334.760	Per acre		Total job co	ST:	\$418		

Task description:	Rip new vent shaft roads				
Site: Sunday Mine	Permit Action:	2018 Update	Pe	rmit/Job#:M	1977285
PROJECT IDENTIFI	CATION				
Task #: 017	State: Colorado		Abbrevi	iation: None	
Date: 4/3/2018	County: San Migu			name: M285	-017
User: LJW					
Agency or organ	ization name:DRMS	-			
HOURLY EQUIPME	NT COST				
Basic Machine	: Cat D9T - 9SU		Horsepower:	405	
Ripper Attachment	3-Shank Ripper	_	Shift Basis:	1 per day	
			Data Source:	(CRG)	
Cost Breakdown:					
			Utilization %		
	ship Cost/Hour:	\$100.59	NA		
	ting Cost/Hour:	\$87.23	100		
	ship Cost/Hour:	\$10.94	NA 100		
	ating Cost/Hour:	\$6.82 \$41.85	100 NA		
-	Unit Cost/Hour:	\$247.43	NA		
Total I	Fleet Cost/Hour: \$24	7.43			
MATERIAL QUANTI Alternate Methods: Seismic: NA	Bank Volume:	NA	method: Area BCY	NA	
Area: 2.65 ac	res Rip Depth (ft):	1.00	Volume: <u>4</u>	,275	BCY or CCY
Source	of estimated quantity:Amend	dment			
HOURLY PRODUCT	ION				
Seismic:					
BOISING.	Seismic Velocity:	, NA	feet/second	1	
A		p = = =		-	
Area:	Average Ripping Depth:	2.00	mah		
	Average Ripping Width:	7.67	mph degrees		
	verage Ripping Length:	500.00	feet		
	Average Dozer Speed:	88.00	feet		
	verage Maneuver Time:	0.25	feet		
1	Production per unit area:	0.891	acres/hour		
Job Condition Correction 1	Factors .				
Unadjusted	Hourly Unit Production:	0.891	Acres/hr		
	Site Altitude:	7,200	feet		
	Altitude Adj:	1.00	(CAT HB)		
	Job Efficiency:	0.83	(1 shift/day	y)	
	Net Correction:	0.83	multiplier		
Ad	justed Hourly Unit Production:	0.74	Acres/hr		
Ad	usted Hourly Fleet Production:	0.74	Acres/hr		
JOB TIME AND COS	<u>r</u>				
Fleet size: 1	Grader(s)	Total job time	e:3.59	9	Hours
Unit cost: \$334.	760 Per acre	Total job cos	t: \$88	7	

Task description:	Rip (older) vent shaft pad	s			_	
Site: Sunday Mine		Permit Actio	n: _2018 Updat	te	Permit/Jol	b#: <u>M19772</u>	85
PROJECT IDE	<u>NTIFICATIO</u>	<u>N</u>					
Task #: 018	8	State: Colorad	0	Abh	reviation:	None	
	/2018	County: San Mig			Filename:	M285-018	
User: LJ			2				
Agency	or organization n	ame: DRMS					
HOURLY EQU	IPMENT COS	ST					
Basic I	Machine: Cat 1	— D9T - 9SU		Horsepower:		405	
Ripper Atta		ank Ripper		Shift Basis:		per day	-
••				Data Source:		CRG)	•
Cost Breakdown:						,	•
				Utilization %			
	Ownership Cos		\$100.59	NA	_		
	Operating Cos		\$87.23	100	_		
	r Ownership Cos		\$10.94	NA	_		
Ripp	er Operating Cos		\$6.82	100			
	Operator Cos		\$41.85	NA	_		
	Total Unit Cos	t/Hour:	\$247.43				
	Total Fleet Cos	t/Hour: \$2	47.43				
				•			
Alternate Methods	<u>:</u>	Bank Volume	e: NA	ВСҮ		NA	
ea: 1.25	acres	Rip Depth (ft		Volume:	2,017	INA	BCY or
							20101
	Source of estima	ited quantity: Perm	if file (7 vent sh	naft pads)			-
HOURLY PRO	DUCTION						
Seismic:							
	Se	ismic Velocity:	NA	feet/se	cond		
Area:							
	Average	Ripping Depth:	2.00	mph			
		Ripping Width:	7.67	degree	S		
	Average F	Ripping Length:	500.00	feet			
		e Dozer Speed:	88.00	feet			
		faneuver Time:	0.25	feet			
	Production	on per unit area:	0.891	acres/h	our		
Job Condition Cor	rection Factors						
Una	djusted Hourly U	Init Production:	0.891	Acres/	hr		
		Site Altitude:	7,200	feet			
		Altitude Adj:	1.00	(CAT	HB)		
		Job Efficiency:	0.83	(1 shif	•		
		Net Correction:	0.83	multip	• .		
		ourly Unit Production ourly Fleet Production		Acres/hr Acres/hr			
JOB TIME AN	D COST						
Fleet size:	1	Grader(s)	Total job tin	ne:	1.69	Hours	
Unit cost:	\$334.760	Per acre	Total job co	ost:	\$418		

Task description:	Rip portal pad and dump	areas		
Site: Sunday Mine	Permit Action	n: _2018 Update	Permit/	Job#: <u>M1977285</u>
PROJECT IDE	NTIFICATION			
Task #: 019	State: Colorad	0	Abbreviation	n: None
	/2018 County: San Mig		Filename	
User: LJV	W			
Agency	or organization name:DRMS			
HOURLY EQU	IPMENT COST			
Basic N	Machine: Cat D9T - 9SU		Horsepower:	405
Ripper Atta	schment: 3-Shank Ripper			1 per day
			Data Source:	(CRG)
Cost Breakdown:				
	0 1: 0	0100.50	Utilization %	
	Ownership Cost/Hour:	\$100.59	NA NA	
n:	Operating Cost/Hours	\$87.23	100	
	r Ownership Cost/Hour:er Operating Cost/Hour:	\$10.94 \$6.82	NA 100	
Kippe	Operating Cost/Hour:		100 NA	
	•	\$41.85	NA NA	
	Total Unit Cost/Hour:	\$247.43		
	Total Fleet Cost/Hour: \$2	47.43		
nic: NA rea: 6.00	Bank Volume acres Rip Depth (ft) Source of estimated quantity: Perm): 1.00	BCY Volume: 9,680	NA BCY or 0
HOURLY PRO		2		a a a a a a a a a a a a a a a a a a a
Seismic:				
	Seismic Velocity:	NA	feet/second	
Area:	-			
Alca.	Average Ripping Depth:	2.00	mph	
	Average Ripping Width:	7.67	degrees	
	Average Ripping Length:	500.00	feet	
	Average Dozer Speed:	88.00	feet	
	Average Maneuver Time:	0.25	feet	
	Production per unit area:	0.891	acres/hour	
Job Condition Cor	rection Factors			
Una	djusted Hourly Unit Production:	0.891	Acres/hr	
	Site Altitude:	7,200	feet	
	Altitude Adj:	1.00	(CAT HB)	
	Job Efficiency:	0.83	(1 shift/day)	
	Net Correction:	0.83	multiplier	
	Adjusted Hourly Unit Production Adjusted Hourly Fleet Production		Acres/hr Acres/hr	
JOB TIME AN	D COST			
Fleet size:	1 Grader(s)	Total job time	e: 8.12	Hours
Unit cost:	\$334.760 Per acre	Total job cos	st: \$2,009	

Task description:	Grade new vent shaft roads		
Site: Sunday Mine	Permit Action:	2018 Update	Permit/Job#: M1977285
PROJECT IDENTI	<u>FICATION</u>		
Task #: 020 Date: 4/3/201 User: LJW	State: Colorado County: San Migue	1	Abbreviation: None Filename: M285-020
	ganization name: DRMS		
HOURLY EQUIPM	IENT COST		
Horsepower: Blade Type: Attachment: Shift Basis:	Cat D9T - 9SU 405 Semi-Universal 3-shank ripper 1 per day (CRG)	- - - -	
Cost Breakdown:		Utilization %	
Ownership Cost/Hou		NA 100	
Operating Cost/Hou Ripper ow	n	100	
Cost/Hou		NA	
Ripper op. Cost/Hou		0	
Operator Cost/Hou	ır:\$41.85	NA	
Swell factor: 1			
Source of estimated v Source of estimated s factor:		on, Mining & Safety	
HOURLY PRODUC	CTION		
Average push distanc Unadjusted hourly production:			
Materials consistency	description: Loose stockpile 1.2		
Average push gradient: Average site altitude:	0 % 7,200 feet		
Material weight:	2,650 lbs/LCY		_
Weight description:	Decomposed rock - 25% Rock	, 75% Earth	
Job Condition Correction	on 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)

957.96 LCY/hr

Adjusted unit production: Adjusted fleet production:

957.96 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) Unit cost: \$0.251/LCY

Total job time: 2.23 Hours Total job cost: \$537

Task description:	Grade (older) vent shaft roa	ds		
Site: Sunday Mine	Permit Action:	2018 Update	Permit/Job#:	M1977285
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 021 Date: 4/3/2018 User: LJW	State: Colorado County: San Migue	1		Ione 1285-021
Agency or orga	anization name: DRMS			
HOURLY EQUIPMI	ENT COST			
Horsepower: 40 Blade Type: So Attachment: 3- Shift Basis: 1	at D9T - 9SU D5 emi-Universal -shank ripper per day CRG)	- - - -		
Cost Breakdown:	J. C.	Utilization %		
Ownership Cost/Hour:	\$100.59	NA		
Operating Cost/Hour:		100		
Ripper own. Cost/Hour:		NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.85	NA		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 955 Swell factor: 1.0 Loose volume: 955	2		341	
Source of estimated vo Source of estimated sw factor:		on, Mining & Safety		
HOURLY PRODUC	<u> TION</u>			
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LCY/hr			
Materials consistency d	lescription: Loose stockpile 1.2			
Average push gradient: Average site altitude:	5 % 7,200 feet			
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rock,	75% Earth	_	
Job Condition Correction		Source		

Operator Skill:	0.600	(POOR)
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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:

692.03 LCY/hr

Adjusted fleet production:

692.03 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.348/LCY

Total job time: 1.38 Hours
Total job cost: \$331

Task description:	Grade (older)	vent shaft pad	s		
ite: Sunday Mine	P	ermit Action:	2018 Update	Permit/Job	o#: <u>M1977285</u>
PROJECT IDENTI	FICATION				
Task #: 022	State:	Colorado		Abbreviation:	None
Date: $\frac{4}{3}/2018$	8 County:	San Miguel		Filename:	M285-022
User: LJW					
Agency or org	ganization name: D)RMS			
HOURLY EQUIPM	ENT COST				
	Cat D9T - 9SU		_		
<u> </u>	405		-		
	Semi-Universal		-		
	3-shank ripper		_		
	l per day		_		
Data Source:((CRG)		_		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hou		\$100.59	NA		
Operating Cost/Hour	r:	\$87.23	100		
Ripper own Cost/Hou		\$10.94	NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou		\$41.85	NA		
	,210				
	.000 , 210 LCY				
Source of estimated ve	,	 of Doolomatic	on Mining & Cafety		
Source of estimated sy factor:			on, Mining & Safety		
HOURLY PRODUC	<u>CTION</u>				
Average push distance	e: 50 feet				
Unadjusted hourly	2,110.5 L	CY/hr			
production:	2,110.5 2	O 17111			
ţ					
Materials consistency	description: Loos	e stockpile 1.2			
Average push gradient:	5 %				
Average site altitude:	7,200 feet				
Material weight:	2,650 lbs/LCY			_	
Weight description:	Decomposed roo	ck - 25% Rock,	75% Earth		
Job Condition Correction	on 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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:

865.09 LCY/hr

Adjusted fleet production:

865.09 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost:

\$0.278/LCY

Total job time: 1.40 Hours
Total job cost: \$337

Task description:	_Grade	new vent	shaft pads			
Site: Sunday Mine		_ Pe	rmit Action:	.2018 Update	Permit/Job#	#: <u>M1977285</u>
PROJECT IDENT	TIFICATION	<u>1</u>				
Task #: 023		- State:	Colorado		Abbreviation:	Nama
Date: 4/3/20	18	County:	San Miguel	****	Filename:	None M285-023
User: LJW	10	County.	Sali Miguei		rnename	101263-023
	organization na	ime. Di	RMS			
		9	MINIO			
HOURLY EQUIP	MENT COS	<u>T</u>				
Basic Machine:	Cat D9T - 95	U				
Horsepower:	405			-		
Blade Type:	Semi-Univer	sal		2		
Attachment:	3-shank rippe			•		
Shift Basis:	1 per day	-	2.1=:	•		
Data Source:	(CRG)			•		
=	(Cito)			-:		
Cost Breakdown:			Ŷ			
				Utilization %		
Ownership Cost/Ho			\$100.59	NA		
Operating Cost/Ho			\$87.23	100		
Ripper ov			\$10.94	NA		
Cost/Ho			60.00	0		
Ripper op. Cost/Ho			\$0.00	0		
Operator Cost/Ho	our:		\$41.85	NA NA		
Total unit Cost/Hour	r: \$240.61					
Total Fleet Cost/Hou		-				
1014111001 00501101	ar. \$2240.01			 :		
MATERIAL QUA	NTITIES					
	1,210					
	1.000					
Loose volume:	1,210 LCY					
Source of estimated	1	District		. 14: 1 . 0 . 0 . 0 .		
	_	Division	of Reclamatio	n, Mining & Safety		
Source of estimated	swell	Cat Hand	lbook			
factor:	-		<u>.</u>			
HOURLY PRODU	CTION					
Avorago much diatam		O f+				
Average push distant		0 feet	37/1			
Unadjusted hourly	2	,110.5 LC	Y/hr			
production:						
Materials consistenc	y description:	Loose	stockpile 1.2			
Average push	5 %					
gradient:						
Average site altitude	: 7,200 fe	et				
Material weight:	<u>2,650 lt</u>	s/LCY		W	_	
Weight description:	Decomp	osed rock	- 25% Rock,	75% Earth		
Joh Condition Coment						
Job Condition Correct	ion ractor			<u>Source</u>		

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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

865.09 LCY/hr

Adjusted unit production: Adjusted fleet production:

865.09 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) Unit cost: \$0.278/LCY

Total job time: 1.40 Hours
Total job cost: \$337

TRUCK/LOADER TEAM WORK

Steel Country Miles			_	r spreading		***	" 2410	
ite: Sunday Mine		Permi	it Action	: 2018 Upda	ate	Permit/Job	#: <u>M19</u>	77285
PROJECT IDENT	IFICATION							
Task #: 024			Colorado		Ab	breviation:	None	
Date: $\frac{4/3/20}{\text{LJW}}$	18	County: S	San Migi	uel	(4)	Filename:	M285-0	24
Agency or o	organization nan	ne: DRM	S	-				
HOURLY EQUIP	MENT COST	1			Shift ba	sis: <u>1 per da</u> y	Ľ	
			Equ	ipment Descr	iption			
Tri	uck Loader Tea			c 8-10 cy, 6x4				
C	4 F 4 T	-Loader:		4D L 9'-8" St	ick			
Suppor	t Equipment -L	oad Area: [imp Area: [NA NA					
	יוע-							
Road Mai								
Road Mai	ntenance -Moto		NA NA		-			
Road Mai	ntenance -Moto	or Grader:	NA		-		-	
Road Mai Cost Breakdown:	ntenance -Moto	or Grader: ter Truck: der Team	NA NA	Support	Equipment	Main	ntenance F	Equipment
Cost Breakdown:	ntenance –Moto -Wa	or Grader: ter Truck:	NA NA	Support oad Area	Equipment Dump Area	Main Motor Grader		Equipment tter Truck
Cost Breakdown:	ntenance –Moto -Wa Truck/Loa	or Grader: ter Truck: der Team Excavator	NA NA			Motor Grader		_
Cost Breakdown: Utilization-machine:	ntenance –Moto -Wa Truck/Loa Truck	or Grader: ter Truck: der Team Excavator	NA NA	oad Area	Dump Area	Motor Grader	Wa	iter Truck NA
Cost Breakdown: Utilization-machine: wnership cost/hour: Operating cost/hour:	ntenance –Moto -Wa Truck/Loa Truck	or Grader: ter Truck: der Team Excavator	NA NA L 100 S.54	oad Area	Dump Area	Motor Grader	NA Wa	nter Truck NA NA
Cost Breakdown: Utilization-machine: Ownership cost/hour:	Truck/Loa Truck 100 \$27.37	or Grader: ter Truck: der Team Excavator	NA NA L 100 S.54	oad Area NA NA	Dump Area NA NA	Motor Grader	NA NA	nter Truck NA NA NA
Cost Breakdown: Utilization-machine: Dwnership cost/hour: Operating cost/hour: %Utilization-riper:	Truck/Loa Truck 100 \$27.37 \$32.23	or Grader: ter Truck: der Team Excavator \$38	NA NA L 100 3.54 0.22	NA NA NA	Dump Area NA NA NA	Motor Grader	NA NA NA	NA NA NA NA NA
Cost Breakdown: Utilization-machine: Ownership cost/hour: Operating cost/hour: %Utilization-riper: oper own. cost/hour:	Truck/Loa Truck 100 \$27.37 \$32.23 NA	or Grader: ter Truck: der Team Excavator \$38 \$40	NA NA L 100 3.54 0.22 0	NA NA NA NA NA	Dump Area NA NA NA NA NA	Motor Grader	NA NA NA NA	NA NA NA NA NA
Cost Breakdown: Utilization-machine: Ownership cost/hour: Operating cost/hour: %Utilization-riper: oper own. cost/hour:	Truck/Loa Truck 100 \$27.37 \$32.23 NA NA	or Grader: ter Truck: der Team Excavator \$38 \$40	NA NA L 100 3.54 0.22 0 0.00 0.00	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	Motor Grader	NA NA NA NA NA	nter Truck NA NA NA
Cost Breakdown: Utilization-machine: Ownership cost/hour: Operating cost/hour: %Utilization-riper: pper own. cost/hour: Ripper op. cost/hour:	Truck/Loa Truck 100 \$27.37 \$32.23 NA NA NA	or Grader: ter Truck: der Team Excavator \$38 \$40 \$0	NA NA L 100 8.54 0.22 0 0.00 0.00 0.79	NA NA NA NA NA NA NA NA NA	Dump Area NA NA NA NA NA NA NA NA NA	Motor Grader	NA	NA NA NA NA NA NA
Cost Breakdown: Utilization-machine: Ownership cost/hour: Operating cost/hour: %Utilization-riper: pper own. cost/hour: Ripper op. cost/hour: Operator cost/hour:	Truck/Loa Truck 100 \$27.37 \$32.23 NA NA NA \$0.00	or Grader: ter Truck: der Team Excavator \$38 \$40 \$0 \$0 \$37	NA NA L 100 8.54 0.22 0 0.00 0.00 0.79	NA	NA	Motor Grader	NA	NA NA NA NA NA NA

MATERIAL QUANTITIES

Initial volume: 1,555 CCY Swell factor: 1.000 Loose volume: 1,555 **LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

2,550 Material weight: Pounds/LCY

Description: Earth - Dry packed

Rated Payload: 27,280 **Pounds**

Truck/Loader Worksheet Con	nt'd	Task # TTT			Page 2 o	f 3
Payload Capacity:	10.70	LCY				
Truck Bed (volume) Basis: Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	10.00 L 9.00 L	.CY .CY .CY .CY				
Final 7	Truck Volume Ba	ased on Number of L	oader Passes:	9.39	LCY	
Loading Tool Capacity						
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	2.980 1.050 CADJC	LCY (heaped) Moist loam or sa LCY			arge	
Job Condition Corrections:	-	Site	Altitude (ft.):	CASA feet		
Altitude Adj: Job Efficiency:	Truck CACFR CJECFR	Loader CACFD CJECFD	Source CACFS CACFS	5		
Net Correction:	CNetCR	CNetCD				
Loading Tool Cycle Time:	Nı	umber of Loading To	ool Passes Req	uired to Fill	NLTPRFT	passes
Excavators and Front Shovel	<u>s:</u>			Truck:	————	
Machine Cycle Time vs Selected Value v						
Track Loaders –		0,				
Cycle Time Elements (min.):						
Load: CLCTE	Mai	neuver: CMCTE		Dump: CDC	CTE	
Wheel and Track	Loaders - Unad	justed Basic Loader	•	oad, dump, CUI	BCTime mir	nutes
Cycle Time Factors				Factor (min.)	Source	
Material:	CCTmD			CCTMF	(Cat HB)	
Stockpile: Truck Ownership:	CCTsD CCTToD			CCTSF CCTTOF	(Cat HB) (Cat HB)	
Operation:	CCToD	7,000		CCTOF	(Cat HB)	
Dump Target:	CCTdTD	Net Cools Time	A .15	CCTDTF	(Cat HB)	
		Net Cycle Time Adjusted Loader Net Load Tim	Cycle Time:	CNCT CABCT CNLTPT	minutes minutes minutes minutes	
Truck Cycle Time:						
Truck Exchange Time	: CUTET	Minutes	Adjusted	for site altitude:	CATET	Minutes
Truck Load Time	: CUTLT	Minutes	Adjusted	for site altitude:	CATLT	– Minutes
Truck Maneuver and Dump Time		Minutes	Adjusted	for site altitude:	CATMDt	Minutes
Truck Travel (Haul & Return) Time:	Road Condition: CI	RoadCondition	1		

Haul Route:	:								
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
Return Rou	te:				Haul Time:	CHTim	e mii	nutes	
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
Loading Tool	unit			Total True	Return Time: ck Cycle Time:			inutes inutes	
Production of the Production o	ction	CLTUP	_ LCY/Hour		Adjusted for jo	b efficiency:	CALT	UP	LCY/Hour
		CTUP	_ LCY/Hour		Adjusted for jo	b efficiency:	CATU	JP	LCY/Hour
mal No. of Tru	icks:	CTNS	_ Truck(s)		Selected Numb	er of Trucks:	CSN	<u>T</u>	Truck(s)
			Adjusted single	truck/loader	team production team production team production	on: CAS	ΓΤΡ Ι	.CY/H .CY/H .CY/H	our
JOB TIM	E ANI	D COST							
Fleet s	ize: _	CFLeet	_ Team(s)	Т	otal job time:	CTJ	Γ	Hours	;
Unit c	ost: _	CUnitCost	_ /LCY	Т	otal job cost: _	CTJ	<u> </u>		

BULLDOZER WORK

Task description:	Spread topsoil	on pad			
Site: Sunday Mine	Pe	ermit Action:	2018 Update	Permit/Job#	: M1977285
PROJECT IDENT	FIFICATION				
Task #: 025	State:	Colorado		Abbreviation:	None
Date: $\frac{625}{4/3/20}$		San Miguel		_	M285-025
User: LJW	710 County.	Sail Wigue		Thename	141203-023
	organization name: Di	RMS			
			·		
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D9T - 9SU				
Horsepower:	405				
Blade Type:	Semi-Universal		<u>≃</u> ;		
Attachment:	3-shank ripper		_		
Shift Basis:	1 per day	(0)	_		
Data Source:	(CRG)		_		
Cost Breakdown:					
Cost Bi cardown.		Ĭ,	Utilization %		
Ownership Cost/Ho	our:	\$100.59	NA		
Operating Cost/Ho		\$87.23	100		
Ripper of					
Cost/Ho		\$10.94	NA		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho		\$41.85	NA		
operator cosum		Ψ11.03	NA .		
Total unit Cost/Hou	r: \$240.61				
Total Fleet Cost/Ho	ur: \$240.61				
MATERIAL OILA	NITITIES				
MATERIAL QUA	NIIIES				
Initial Volume:	1,555				
	1.000				
Loose volume:	1,555 LCY				
_					
Source of estimated			on, Mining & Safety		
Source of estimated	swell Cat Hand	lbook			
factor:					
HOURLY PRODU	<u>JCTION</u>				
Average push distan	nce: 50 feet				
Unadjusted hourly	2,110.5 LC	V/h=			
production:	2,110.5 LC	Y /III			
production:					
Materials consistence	cy description: Loose	stockpile 1.2			
Average push	0 %				
gradient:					
Average site altitude	e: 7,200 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Earth - Dry packe	d		_	
		<u>u</u>			
Job Condition Correct	tion 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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5390

Adjusted unit production:

1,137.56 LCY/hr

Adjusted fleet production:

1137.56 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.212/LCY

Total job time: 1.37 Hours
Total job cost: \$329

WHEEL LOADER - LOAD AND CARRY WORK

	Permit Action	n: 2018 Update	Permit/Jol	o#: <u>M197728</u>
PROJECT IDENTIFICA	ATION			
Task #: 026	State: Colorade	0	Abbreviation:	None
Date: 4/5/2018	County: San Mig	uel	Filename:	M285-026
User: LJW				
Agency or organiza	ntion name: DRMS			
HOURLY EQUIPMENT	COST			
Basic Machine: C.	AT 924H	Horse	epower:	128
	OPS Cab		•	er day
		Data		CRG)
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hou		NA		
Operating Cost/Hou		100		
Operator Cost/Hou Total Unit Cost/Hou		NA NA		
Total Unit Cost/Hot	ır: \$79.56			
Total Fleet Cost/Ho	ur: \$318.23	-		
MATERIAL QUANTIT	<u>IES</u>			
Initial volume:100,	000 CCY 100,000 LCY	Swell factor: _	1.000	
	stimated volume: Divisio ated swell factor: Cat Har	n of Reclamation, Minir	ng & Safety	
		Idoook		
HOURLY PRODUCTIO Loader Cycle Time:	_	- Cools Time (lead down		••
Educi Cycle Time.	Ollaujusieu Basic	Cycle Time (load, dum maneuve	114/7	minutes
	1		Factor (min.)	Source
Cycle Time Factors			I dotto (IIIIII.)	
Cycle Time Factors Material:	Mixed material 0.02		0.020	(Cat HB)
Material: Stockpile:	Mixed material 0.02 Conveyor or dozer piled 0.01			
Material: Stockpile: Truck Ownership:	Mixed material 0.02 Conveyor or dozer piled		0.020	(Cat HB)
Material: Stockpile: Truck Ownership: Operation:	Mixed material 0.02 Conveyor or dozer piled 0.01 Common ownership of tr 0.04 Constant operation -0.04		0.020 0.010 -0.040 -0.040	(Cat HB) (Cat HB) (Cat HB) (Cat HB)
Material: Stockpile: Truck Ownership:	Mixed material 0.02 Conveyor or dozer piled 0.01 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00	ucks and loaders -	0.020 0.010 -0.040 -0.040 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Material: Stockpile: Truck Ownership: Operation:	Mixed material 0.02 Conveyor or dozer piled 0.01 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy	ucks and loaders -	0.020 0.010 -0.040 -0.040 0.000 -0.050	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Material: Stockpile: Truck Ownership: Operation:	Mixed material 0.02 Conveyor or dozer piled 0.01 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy	ucks and loaders -	0.020 0.010 -0.040 -0.040 0.000	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Material: Stockpile: Truck Ownership: Operation: Dump Target:	Mixed material 0.02 Conveyor or dozer piled 0.01 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy Adjust	ucks and loaders -	0.020 0.010 -0.040 -0.040 0.000 -0.050	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Material: Stockpile: Truck Ownership: Operation: Dump Target: Rolling Resistance – Road Co	Mixed material 0.02 Conveyor or dozer piled 0.01 Common ownership of tr 0.04 Constant operation -0.04 Nominal target 0.00 Net Cy Adjust	vele Time Adjustment:	0.020 0.010 -0.040 -0.040 0.000 -0.050 0.425	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

Haul and Return Time

	Length (feet)	Grade Res.	Rolling Res. (%)	Total Res.	Travel Time (minutes)	Source
Haul Route:	400	0.00	2.00	2.00	0.1972	(Cat HB)
Return Route:	400	0.00	2.00	2.00	0.1972	(Cat HB)

Total Travel Time: 0.3945 minutes
Total Cycle Time: 0.8195 minutes

Load Bucket Capacity

Rated Capacity: 2.70 LCY (heaped)

Bucket Fill Factor: 1.000 Rock - Well Blasted (95%-105%) 1.000

Adjusted Capacity: 2.70 LCY

Job Condition Correction Factors

Site Altitude: 5800 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production: 197.69 LCY/Hour Adjusted Hourly Unit Production: 164.08 LCY/Hour Adjusted Hourly Fleet Production: 656.32 LCY/Hour

JOB TIME AND COST

 Fleet size:
 4
 Loader(s)
 Total job time:
 152.37
 Hours

 Unit cost:
 \$0.485
 /LCY
 Total job cost:
 \$48,487

WHEEL LOADER – LOAD AND CARRY WORK

ta.	Cask description:					on: 2018 U			Dam=:4/T-	L .μ.	M107700
e.	Sunday Mine			Pe	rmit Acti	on: _2018 (paate		Permit/Jo	D#:	M197728
PI	ROJECT IDENTI	FICA'	ΓΙΟΝ								
	Task #: 027			State:	Colora	do		ΔЫ	oreviation:	N	one
	Date: $\frac{627}{4/3/201}$	8	_ (County:	San M			Au	Filename:		285-027
	User: LJW		_ `	oo amy .		.5			i ilonamo.		203 027
	Agency or or	ganizati	ion nan	ne: Dl	RMS						
<u>H</u>	OURLY EQUIPM	1ENT	COST	•							
	Basic Machine	: CA	T 950F	I high lif	ft		Hor	sepower:		197	
	Attachment 1		PS Cab					ift Basis:	11	oer d	
				585				a Source:		CRC	
Co	st Breakdown:										
						Utilizat	on %				
	Ownership Co			\$25.		N/					
	Operating Co			\$28.		100					
	Operator Co			\$41.		NA	<u> </u>				
	Total Unit Co	st/Hour	:	\$95.	37						
	Total Fleet Co	ost/Hou	r:	\$95.	.37						
<u>M</u>	ATERIAL QUAN	TITII	<u>es</u>								
	Initial volume:	556			_ CCY	Sw	ell factor:	1.060			
	Loose volume:		589		_ LCY						
	Sourc	e of esti	imated	volume:	Divis	ion of Reclar	nation. Min	ing & Sa	fetv		
	Source of					andbook		5 - 5 - 5 - 5			
								-			
H	OURLY PRODU	CTION	1								
Lo	ader Cycle Time:			Unadi	usted Bas	sic Cycle Tin	ne (load, du	mn			minutes
	•			Onacj	ustou Bu	ne cycle 1 ii.	maneuv	• •	0.500		mmates
	Cycle Time Fa	ctors						Fact	or (min.)		Source
	Mat	erial:	Mater	ial 3/4" t	to 6" diar	neter 0.00			0.000	((Cat HB)
	Stock					not applicabl		(.000	1	(Cat HB)
	Truck Owner	_				not applicabl	0.00		.000	((Cat HB)
	Opera				ation -0.0				0.040	_	Cat HB)
	Dump Ta	rget:	No ad	justment		not applicabl			.000		(Cat HB)
						Cycle Time A			0.040	_	minutes
					Adjı	isted Basic C	ycie I ime:	().460	-	minutes
D^	lling Resistance D	nad Ca-	dition-								
<u>Ν</u> υ	Iling Resistance – Ro			_							
	Ha					ance, no wate					
	Retu	rn: <u>R</u>	utted d	lirt, little	maintena	nce, no wate	r, 1" tire pe	netration	4.0		
<u>H</u> a	ul and Return Time										
	I	Len	oth	Grade	Res	Rolling	Total Re	-c Tr	avel Time	ı	
		(fe	_	(%	- 1	Res. (%)	(%)	- 1	minutes)		Source
	Haul Pouter	10			00	4.00	(/0)		0.5010	-	Cot IID)

Loader Worksheet Cont'd		Task # (027			Page 2 of 2
Return Route:	400	5.00 4	.00	9.00	0.4418	(Cat HB)
			Total Trave Total Cycl		0.9437 1.4037	minutes minutes
Load Bucket Capacity						
Rated Capacity: Bucket Fill Factor: Adjusted Capacity: Job Condition Correction F Site Altitude: 5800 feet	0.975 4.19	LCY (heap Sand and g LCY		100%) 0.97	5	
Adj	usted Hourly U	Source (CAT HB) (1 shift/day) multiplier (nit Production: eet Production:	179.21 148.74 148.74	LCY/I LCY/I LCY/I	Hour	
JOB TIME AND COST	<u> </u>					

Total job time: 3.96 Hours

Total job cost: \$378

Fleet size: 1 Loader(s)

Unit cost: \$0.641 /LCY

REVEGETATION WORK

7	Task description:	Revegetate (older) vent shaft pads and vent roads		
Site:	Sunday Mine	Permit Action: _2018 Update	Permit/Job#:	M1977285

PROJECT IDENTIFICATION

Task #: 028 State: Colorado Abbreviation: None County: San Miguel Filename: M285-028

Date: 4/3/2018 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
	- Company of the Comp	\$
	Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$106.29
Weed control spraying (MEANS 31 31 16.13 3100)		\$242.00
	·-	
	Total Tilling Cost/Acre	\$348.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$13.92
Indian Ricegrass - Native	7.42	24.02	\$51.94
Sand Dropseed	0.14	16.71	\$1.52
Bottlebrush Squirreltail	4.08	17.98	\$95.88
Galleta	4.94	18.03	\$122.02
Muttongrass	0.20	4.13	\$6.91
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	\$312.63

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
	14	\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Tota	ls Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 2.4
Estimated Failure Rate: 35%
*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$2,227.54

Reseeding Job Cost: \$779.64 Total Job Cost: \$3,007 Job Hours: 4.00

Cost /Acre: \$928.14 Cost /Acre*: \$928.14

REVEGETATION WORK

Т	Task description:	Revegetate new vent shaft pads and vent roads			
Site	Sunday Mine	Permit Action:	2018 Undate	Permit/Ioh#	M1977285

Permit Action: 2018 Update Site: Sunday Mine

PROJECT IDENTIFICATION

Task #: 029
Date: 4/3/2018
User: LJW State: Colorado
County: San Miguel Abbreviation: None M285-029

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$106.29
Weed control spraying (MEANS 31 31 16.13 3100)		\$242.00
	Total Tilling Cost/Acre	\$348.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$13.92
Indian Ricegrass - Native	7.42	24.02	\$51.94
Sand Dropseed	0.14	16.71	\$1.52
Bottlebrush Squirreltail	4.08	17.98	\$95.88
Galleta	4.94	18.03	\$122.02
Muttongrass	0.20	4.13	\$6.91
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

\$267.22

	Totals Seed Mix	18.94	109.07	\$312.63
pplication				
Description				Cost /Acre
Broadcast seeding [DMG]				\$267.22

Total Seed Application Cost/Acre

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: 3.9
Estimated Failure Rate: 35%
*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$3,619.75 Reseeding Job Cost: \$1,266.91

Total Job Cost: \$4,887 Job Hours: **6.00**

Cost /Acre: \$928.14 Cost /Acre*: \$928.14

REVEGETATION WORK

i ask description:	Revegetate "affected area" at portal pad and dum	ip	
Site: Sunday Mine	Permit Action: 2018 Update	Permit/Job#: M1977285	
PDO IFCT INENTIFIC	ATION		

Task #:	030	State:	Colorado	Abbreviation:	None	
Date:	4/3/2018	County:	San Miguel	Filename:	M285-030	

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$106.29
Weed control spraying (MEANS 31 31 16.13 3100)		\$242.00
	Total Tilling Cost/Acre	\$348.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native	0.96	15.67	\$13.92
Indian Ricegrass - Native	7.42	24.02	\$51.94
Sand Dropseed	0.14	16.71	\$1.52
Bottlebrush Squirreltail	4.08	17.98	\$95.88
Galleta	4.94	18.03	\$122.02
Muttongrass	0.20	4.13	\$6.91
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	\$312.63
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Application

Description			Cost /Acre
Broadcast seeding [DMG]			\$267.22
	Total Seed Applica	tion 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: 33
Estimated Failure Rate: 35%
*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$30,628.62** Reseeding Job Cost: \$10,720.02 Total Job Cost: \$41,349 Job Hours: **24.00**

Cost /Acre: \$928.14 Cost /Acre*: \$928.14

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Haul reclamation equipment to and from site

Site: Sunday Mine Permit Action: 2018 Update Permit/Job#: M1977285

PROJECT IDENTIFICATION

Task #: 031 State: Colorado Abbreviation: None

Date: 4/3/2018 County: San Miguel Filename: M285-031

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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D9T - 9SU	60.01	\$100.59	\$125.45	2	\$452.08	\$250.90	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$38.54	\$117.55	1	\$156.09	\$117.55	\$250.00
CAT 924H	12.69	\$18.14	\$88.67	4	\$427.24	\$354.68	\$250.00

Subtotals: \$1,035.41 \$723.13 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$30.89	I	\$30.89	\$30.89
Power Mulcher (Bowie LD-90)	\$21.31	1	\$21.31	\$21.31
Light Duty Pickup, 4x4, 3/4 T.	\$12.26	1	\$12.26	\$12.26

Subtotals: \$64.46 \$64.46

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: **NATURITA** Total one-way travel distance: 40.00 miles mph

Average Travel Speed: 40.00

Total Non-Roadable Mob/Demob Cost *

"* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$9,158.72 \$128.92

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	4.00	2.00

JOB TIME AND COST

8.00 Hours Total job time:

Total job cost: \$9,288