



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

July 31, 2020

Matt Mueller  
Siloam Stone, Inc.  
1360 Rudd Ave  
Canon City, CO 81212

**RE: Division's Financial Warranty Cost Estimates for Bedrock Mine #1 (M1997-086)**

Dear Mr. Mueller,

On July 14, 2020 the Division performed an inspection as part of the Division's Routine Monitoring Program of the Bedrock Mine #1. As part of the inspection the financial warranty for the mine was calculated. The Division used observations made during the inspection, the Annual Map submitted in 2020, and details provided in TR-2 during the cost estimate calculations.

A copy of the mine's estimate is attached for your review. The Division will allow 14 days to review and comment on the bond estimate prior to issuing a surety increase notice for the Bedrock Mine #1. Once the surety increase is issued by the Division, the Operator will have 60 days to provide the additional financial warranty.

If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at **303-866-3567 x8114**, or by email at [patrick.lennberg@state.co.us](mailto:patrick.lennberg@state.co.us).

Sincerely,

Patrick Lennberg  
Environmental Protection Specialist

cc: Jared Ebert, DRMS

ec: Matt Mueller, Siloam Stone, Inc., [siloam@siloamstone.com](mailto:siloam@siloamstone.com)  
Steve O'Brian, Environment Inc., [Environment-inc@outdrs.net](mailto:Environment-inc@outdrs.net)



## COST SUMMARY WORK

Task description: Cost Summary

Site: Bedrock Mine #1

Permit Action: 2020 Inspection

Permit/Job#: M1997086

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/31/2020

County: Pueblo

Filename: M086-000

User: JPL

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade Highwall to 3H:1V Slope	DOZER	1	3.10	\$618
002	Backfill Slab Stone Pit Areas	DOZER	1	7.18	\$1,410
003	Spread TS 1' on 20 acres	LOADER	1	91.27	\$14,293
004a	Rip 34 acres of TSSA and Stone Yard	GRADER	1	27.41	\$3,420
005	Spread and Shape TS 20 acres	GRADER	1	15.40	\$1,977
006	Revegetation of 21.3 acres related to mining areas	REVEGE	1	30.00	\$15,247
006a	Revegetation of 39.9 acres TSSA, Stone Yard and misc	REVEGE	1	30.00	\$23,925
006b	Weed Control 5.7 acres	REVEGE	1	0.00	\$1,104
007	Mob/Demob	MOBILIZE	1	3.85	\$4,060
<b><u>SUBTOTALS:</u></b>				<b>208.21</b>	<b>\$66,054</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,334

Performance bond: 1.05

Total = \$694

Job superintendent: 102.18

Total = \$7,107

Profit: 10.00

Total = \$6,605

TOTAL O & P = \$15,740

CONTRACT AMOUNT (direct + O & P) = \$81,794

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 8.59

Total = \$7,026

Reclamation management and/or administration: 5.00

\$4,090

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$27,356

**TOTAL BOND AMOUNT (direct + indirect) = \$93,410**

**BULLDOZER WORK**Task description: **Grade Highwall to 3H:1V Slope**Site: **Bedrock Mine #1**Permit Action: **2020 Inspection**Permit/Job#: **M1997086****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **7/31/2020**County: **Pueblo**Filename: **M086-001**User: **JPL**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS XR Series II**Horsepower: **240**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$74.64	NA
Operating Cost/Hour:	\$71.55	100
Ripper own. Cost/Hour:	\$7.60	NA
Ripper op. Cost/Hour:	\$5.32	100
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$199.14**Total Fleet Cost/Hour: **\$199.14****MATERIAL QUANTITIES**Initial Volume: **1,500**Swell factor: **1.215**Loose volume: **1,823 LCY**Source of estimated volume: **DRMS Calculation**Source of estimated swell  
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly  
production: **1,022.9 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push  
gradient: **-10 %**Average site altitude: **5,800 feet**Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth****Job Condition Correction Factor**Operator Skill: **0.750**Source  
(AVG.)

Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5740

Adjusted unit  
production: 587.14 LCY/hr

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Adjusted fleet  
production: **587.14** LCY/hr

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### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

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Unit cost: \$0.339/LCY

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Total job time: **3.10** Hours

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Total job cost: **\$618**

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**BULLDOZER WORK**Task description: **Backfill Slab Stone Pit Areas**Site: **Bedrock Mine #1**Permit Action: **2020 Inspection**Permit/Job#: **M1997086****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **7/31/2020**County: **Pueblo**Filename: **M086-002**User: **JPL**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS XR Series II**Horsepower: **240**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$74.64	NA
Operating Cost/Hour:	\$71.55	100
Ripper own.	\$7.60	NA
Cost/Hour:		
Ripper op. Cost/Hour:	\$2.66	50
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$196.48**Total Fleet Cost/Hour: **\$196.48****MATERIAL QUANTITIES**Initial Volume: **4,000**Swell factor: **1.000**Loose volume: **4,000 LCY**Source of estimated volume: **TR2 Volume Estimate and DRMS Site Visit**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,022.9 LCY/hr**Materials consistency description: **Consolidated stockpile 1.0**Average push gradient: **-5 %**Average site altitude: **5,800 feet**Material weight: **2,900 lbs/LCY**Weight description: **Decomposed rock - 50% Rock, 50% Earth****Job Condition Correction Factor**Operator Skill: **0.750**Source  
(AVG.)

Material consistency:	1.000	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5449

Adjusted unit production: 557.38 LCY/hr

Adjusted fleet production: **557.38** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.353/LCY

Total job time: **7.18** Hours

Total job cost: **\$1,410**

**WHEEL LOADER – LOAD AND CARRY WORK**Task description: Spread TS 1' on 20 acresSite: Bedrock Mine #1Permit Action: 2020 InspectionPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 7/31/2020County: PuebloFilename: M086-003User: JPLAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 980HAttachment 1: ROPS CabHorsepower: 315Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$55.34	NA
Operating Cost/Hour:	\$65.29	100
Operator Cost/Hour:	\$35.97	NA
Total Unit Cost/Hour:	\$156.60	
Total Fleet Cost/Hour:	\$156.60	

**MATERIAL QUANTITIES**Initial volume: 32,300

CCY

Swell factor: 1.000Loose volume: 32,300

LCY

Source of estimated volume: DRMS EstimateSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Loader Cycle Time:**Unadjusted Basic Cycle Time (load, dump,  
maneuver):

0.550

minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.010	minutes
Adjusted Basic Cycle Time:		0.560	minutes

**Rolling Resistance – Road Conditions**Haul: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Return: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
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Haul Route:	400	0.00	3.00	3.00	0.3092	(Cat HB)
Return Route:	400	0.00	3.00	3.00	0.2917	(Cat HB)

Total Travel Time: 0.6010 minutesTotal Cycle Time: 1.1610 minutesLoad Bucket Capacity

Rated Capacity:	<u>7.50</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.100</u>	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	<u>8.25</u>	LCY

Job Condition Correction FactorsSite Altitude: 5800 feet

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

Unadjusted Hourly Unit Production: 426.37 LCY/HourAdjusted Hourly Unit Production: 353.89 LCY/HourAdjusted Hourly Fleet Production: 353.89 LCY/Hour**JOB TIME AND COST**Fleet size: 1 Loader(s) Total job time: 91.27 HoursUnit cost: \$0.443 /LCY Total job cost: \$14,293



## MOTOR GRADER WORK

Task description: Rip 34 acres of TSSA and Stone Yard

Site: Bedrock Mine #1

Permit Action: 2020 Inspection

Permit/Job#: M1997086

### PROJECT IDENTIFICATION

Task #: 004A

State: Colorado

Abbreviation: None

Date: 7/31/2020

County: Pueblo

Filename: M086-004a

User: JPL

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 120M

Horsepower: 138

Ripper Attachment: Multi-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$38.18	NA
Operating Cost/Hour:	\$34.06	100
Ripper Ownership Cost/Hour:	\$2.57	NA
Ripper Operating Cost/Hour:	\$3.07	100
Operator Cost/Hour:	\$46.87	NA
Total Unit Cost/Hour:	\$124.75	
Total Fleet Cost/Hour:	<b>\$124.75</b>	

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 34.00 acres

Source of estimated acreage: Annual Report and site inspection

### HOURLY PRODUCTION

Average Grader Speed:	1.50	mph
Selected Application:	Ripping (0-3 mph) - 1.50	
Selected Blade Angle:	-1	degrees
Effective Blade Length:	0.00	feet
Width of blade overlap per pass:	2.00	feet
Net grading or ripping width per pass:	7.58	feet
Unadjusted Hourly Unit Production:	1.3782	acres/hour

#### Job Condition Correction Factors

Site Altitude: 5800 feet

Altitude Adj:	1.00	Source (CAT HB)
Job Efficiency:	0.90	(1sh/d, fav.)
Net Correction:	0.9000	multiplier

Adjusted Hourly Unit Production: 1.2404 acres/Hour

Adjusted Hourly Fleet Production: **1.2404** acres/Hour

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **27.41** Hours

Unit cost: \$100.58 per acre Total job cost: **\$3,420**

## MOTOR GRADER WORK

Task description: Spread and Shape TS 20 acres

Site: Bedrock Mine #1

Permit Action: 2020 Inspection

Permit/Job#: M1997086

### PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 7/31/2020

County: Pueblo

Filename: M086-005

User: JPL

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: CAT 140M

Horsepower: 183

Ripper Attachment: Multi-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$40.52	NA
Operating Cost/Hour:	\$38.39	100
Ripper Ownership Cost/Hour:	\$2.57	NA
Ripper Operating Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$46.87	NA
Total Unit Cost/Hour:	\$128.34	
Total Fleet Cost/Hour:	<b>\$128.34</b>	

### MATERIAL QUANTITIES

Total Area to be graded or ripped: 20.00 acres

Source of estimated acreage: Annual Report and Site Inspection

### HOURLY PRODUCTION

Average Grader Speed:	<u>1.50</u>	mph
Selected Application:	<u>Finish grading (0-2.5 mph) - 1.5</u>	
Selected Blade Angle:	<u>30</u>	degrees
Effective Blade Length:	<u>10.40</u>	feet
Width of blade overlap per pass:	<u>2.00</u>	feet
Net grading or ripping width per pass:	<u>8.40</u>	feet
Unadjusted Hourly Unit Production:	<u>1.5273</u>	acres/hour

#### Job Condition Correction Factors

Site Altitude: 5800 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.85</u>	(1sh/d, mod.)
Net Correction:	<u>0.8500</u>	multiplier

Adjusted Hourly Unit Production: 1.2982 acres/Hour

Adjusted Hourly Fleet Production: **1.2982** acres/Hour

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **15.41** Hours

Unit cost: \$98.86 per acre Total job cost: **\$1,977**

**REVEGETATION WORK**Task description: Revegetation of 39.9 acres TSSA, Stone Yard and miscSite: Bedrock Mine #1Permit Action: 2020 InspectionPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 006AState: ColoradoAbbreviation: NoneDate: 7/31/2020County: PuebloFilename: M086-006aUser: JPLAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

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

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.16
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
<b>Total Tilling Cost/Acre</b>	<b>\$300.76</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.08
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$1.80
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$3.98
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Intermediate Wheatgrass - Oahe	2.00	4.27	\$5.60
Slender Wheatgrass - Native	1.00	3.65	\$4.63
		45.27	<b>\$39.69</b>

<b>Totals Seed Mix</b>	10.00		
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**Application**

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

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

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

**Application**

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

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	39.9	Cost /Acre:	\$572.45
Estimated Failure Rate:	10%	Cost /Acre*:	\$271.69
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	<b>\$22,840.76</b>
Reseeding Job Cost:	<b>\$1,084.04</b>
Total Job Cost:	<b>\$23,925</b>
Job Hours:	<b>30.00</b>

**REVEGETATION WORK**Task description: Weed Control 5.7 acresSite: Bedrock Mine #1Permit Action: 2020 InspectionPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 006BState: ColoradoAbbreviation: NoneDate: 7/31/2020County: PuebloFilename: M086-006bUser: JPLAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

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

**TILLING**

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
<b>Total Tilling Cost/Acre</b>	<b>\$193.60</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
<b>Totals Seed Mix</b>	0.00	0.00	<b>\$0.00</b>

**Application**

Description	Cost /Acre
	\$

<b>Total Seed Application Cost/Acre</b>	<b>\$0.00</b>
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**MULCHING and MISCELLANEOUS****Materials**

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

**Application**

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

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	5.7		Cost /Acre:	\$193.60
Estimated Failure Rate:	0%		Cost /Acre*:	\$193.60
*Selected Replanting Work Items:	TILLING			
Initial Job Cost:	<b>\$1,103.52</b>			
Reseeding Job Cost:	<b>\$0.00</b>			
Total Job Cost:	<b>\$1,104</b>			
Job Hours:	<b>0.00</b>			

**REVEGETATION WORK**Task description: Revegetation of 21.3 acres related to mining areasSite: Bedrock Mine #1Permit Action: 2020 InspectionPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 7/31/2020County: PuebloFilename: M086-006User: JPLAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

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

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.16
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
<b>Total Tilling Cost/Acre</b>	<b>\$300.76</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.08
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$1.80
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$3.98
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Intermediate Wheatgrass - Oahe	2.00	4.27	\$5.60
Slender Wheatgrass - Native	1.00	3.65	\$4.63
		45.27	<b>\$39.69</b>

<b>Totals Seed Mix</b>	10.00		
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**Application**

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

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

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$301.00	\$602.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$602.00</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$70.17
<b>Total Mulch Application Cost/Acre</b>	<b>\$70.17</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	21.3	Cost /Acre:	\$1,244.62
Estimated Failure Rate:	10%	Cost /Acre*:	\$271.69
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	<b>\$26,510.41</b>
Reseeding Job Cost:	<b>\$578.70</b>
Total Job Cost:	<b>\$27,089</b>
Job Hours:	<b>30.00</b>



**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mob/Demob**Site: **Bedrock Mine #1**Permit Action: 2020 InspectionPermit/Job#: M1997086**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 7/31/2020County: PuebloFilename: M086-007User: JPLAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

**NON ROADABLE EQUIPMENT:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D7R DS XR Series II	35.93	\$82.24	\$123.81	1	\$206.05	\$123.81	\$250.00
CAT 980H	33.12	\$55.34	\$123.81	1	\$179.15	\$123.81	\$250.00
CAT 140M	16.68	\$43.09	\$67.39	1	\$110.48	\$67.39	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00
Subtotals:					<b>\$569.79</b>	<b>\$382.40</b>	<b>\$1,000.00</b>

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Subtotals:			<b>\$0.00</b>	<b>\$0.00</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PUEBLO</u>	
Total one-way travel distance:	<u>20.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,060.00</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.36</u>	<u>0.36</u>
Return Time (Hours):	<u>0.36</u>	<u>0.36</u>
Loading Time (Hours):	<u>0.70</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.93</u>	<u>0.73</u>

**JOB TIME AND COST**

Total job time:	<u>3.85</u>	Hours
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Total job cost:	<u>\$4,060</u>
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