



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

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: St Jude Mine, Permit No. M-1978-039-HR, Financial Warranty Increase, Revision No. SI-2

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 \$61,021.00. This is an increase of \$13,321.00 over the \$47,700.00 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, by phone at (970)-243-6368 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 Financial Assurance Specialist
Russ Means, Senior Environmental Protection Specialist

Ec: James Blair, Bureau of Land Management

COST SUMMARY WORK

Task description: Cost Summary

Site: St Jude Mine

Permit Action: 2018 Update

Permit/Job#: M1978039HR

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 4/5/2018

County: San Miguel

Filename: M039-000

User: LJW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish onsite structures; underground or surface disposal	DEMOLISH	1	30.00	\$7,888.95
002	Remove and backfill ore pad liner and gravel	LOADER	1	2.78	\$222.00
003	Portal closure (backfill and recontour)	MINESEAL	1	24.00	\$8,397.00
004	Grade waste dump (DRA), pad and portal areas	DOZER	1	21.39	\$5,146.00
005	Rip compaction on pad	RIPPER	1	5.63	\$1,395.00
006	Carry topsoil to pad for spreading	LOADER	1	8.30	\$661.00
007	Spread topsoil on pad areas	DOZER	1	2.84	\$682.00
008	Grade access road	DOZER	1	0.52	\$125.00
009	Revegetate disturbed areas	REVEGE	1	10.00	\$16,649.00
010	Haul reclamation equipment to and from site	MOBILIZE	1	8.00	\$6,050.00
<u>SUBTOTALS:</u>				113.46	\$47,216

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 64.73
Profit: 10.00

Total = \$953.76

Total = \$495.77

Total = \$4,728.53

Total = \$4,721.60

TOTAL O & P = \$10,899.66

CONTRACT AMOUNT (direct + O & P) = \$58,115.66

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = 0.00

Total = \$0.00

\$2,905.78

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$13,805.44

TOTAL BOND AMOUNT (direct + indirect) = \$61,021.44

DEMOLITION WORK

Task description: Demolish onsite structures; underground or surface disposal

Site: St Jude Mine

Permit Action: 2018 Update

Permit/Job#: M1978039HR

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 4/5/2018

County: San Miguel

Filename: M039-001

User: LJW

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
Shop/dry/office metal bldg.	40x50x15	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	30,000.00	CF	\$0.18	\$5,370.00
Shop/dry/office bldg. concrete slab	40x50	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	2,000.00	SF	\$0.41	\$814.00
Denison-owned powerlines	630 LF	Disposal of utility pole cross arms and hardware surplus material	630.00	LF	\$0.01	\$6.30
Electric substation, fenced	10x15x6	Fencing, chain link, including posts and fabric - to 6 ft. high	50.00	LF	\$2.62	\$131.00
Electric transformers, non-PCB	20x36 in	Hazardous waste removal - Drum solids/liquids, per drum, (1-6 drum job)	2.00	DRUM	\$614.14	\$1,228.28
Wood-cribbed loadouts	40x15x5	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	3,000.00	CF	\$0.17	\$522.00
Misc parts and debris	20x20x10 mass	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	150.00	CY	\$0.47	\$69.75

Job Hours: 30.00

Subtotal
(unadjusted): \$8,141.33

Total Cost
(adjusted for location): \$7,888.95

WHEEL LOADER – LOAD AND CARRY WORKTask description: Remove and backfill ore pad liner and gravelSite: St Jude Mine Permit Action: 2018 Update Permit/Job#: M1978039HR**PROJECT IDENTIFICATION**

Task #: 002 State: Colorado Abbreviation: None
 Date: 4/5/2018 County: San Miguel Filename: M039-002
 User: LJW

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: CAT 924H Horsepower: 128
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$18.14	NA
Operating Cost/Hour:	\$20.22	100
Operator Cost/Hour:	\$41.20	NA
Total Unit Cost/Hour:	\$79.56	
Total Fleet Cost/Hour:	\$79.56	

MATERIAL QUANTITIES

Initial volume: 500 CCY Swell factor: 1.060
 Loose volume: 530 LCY

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

HOURLY PRODUCTION

Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.475 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.040	minutes
Adjusted Basic Cycle Time:		0.435	minutes

Rolling Resistance – Road Conditions

Haul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0
 Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	4.00	4.00	0.1269	(Cat HB)

Return Route:	200	0.00	4.00	4.00	0.1269	(Cat HB)
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Total Travel Time: 0.2539 minutesTotal Cycle Time: 0.6889 minutesLoad Bucket Capacity

Rated Capacity:	<u>2.70</u>	LCY (heaped)
Bucket Fill Factor:	<u>0.975</u>	Sand and gravel (95% - 100%) 0.975
Adjusted Capacity:	<u>2.63</u>	LCY

Job Condition Correction FactorsSite Altitude: 5800 feet

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

Unadjusted Hourly Unit Production:	<u>229.29</u>	LCY/Hour
Adjusted Hourly Unit Production:	<u>190.31</u>	LCY/Hour
Adjusted Hourly Fleet Production:	<u>190.31</u>	LCY/Hour

JOB TIME AND COSTFleet size: 1 Loader(s) Total job time: 2.78 HoursUnit cost: \$0.418 /LCY Total job cost: \$222

SAFEGUARDING UNDERGROUND OPENINGS

Task description: Portal closure (backfill and recontour)

Site: St Jude Mine

Permit Action: 2018 Update

Permit/Job#: M1978039HR

PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 4/5/2018

County: San Miguel

Filename: M039-003

User: LJW

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Backfill inert debris/rock in adit	10x10	Adit closure - backfilling (per cu. yd.)	200.00	CY	\$27.00	\$5,400.00
Backfill earth and recontour portal	10x10	Adit closure - backfilling (per cu. yd.)	111.00	CY	\$27.00	\$2,997.00

Job Hours: 24.00

Total Cost: \$8,397.00

BULLDOZER WORKTask description: Grade waste dump (DRA), pad and portal areasSite: St Jude MinePermit Action: 2018 UpdatePermit/Job#: M1978039HR**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 4/5/2018County: San MiguelFilename: M039-004User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$100.59	NA
Operating Cost/Hour:	\$87.23	100
Ripper own. Cost/Hour:	\$10.94	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$240.61	
Total Fleet Cost/Hour:	\$240.61	

MATERIAL QUANTITIESInitial Volume: 12,000Swell factor: 1.335Loose volume: 16,020 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly
production: 2,110.5 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push
gradient: 5 %Average site altitude: 5,800 feetMaterial weight: 2,550 lbs/LCYWeight description: Sandstone**Job Condition Correction 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:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3549

Adjusted unit production:	749.02 LCY/hr
Adjusted fleet production:	749.02 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.321/LCY
Total job time:	21.39 Hours
Total job cost:	\$5,146

BULLDOZER RIPPING WORK

Task description: Rip compaction on pad

Site: St Jude Mine

Permit Action: 2018 Update

Permit/Job#: M1978039HR

PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 4/5/2018

County: San Miguel

Filename: M039-005

User: LJW

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU

Horsepower: 405

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$100.59	NA
Operating Cost/Hour:	\$87.23	100
Ripper Ownership Cost/Hour:	\$10.94	NA
Ripper Operating Cost/Hour:	\$6.82	100
Operator Cost/Hour:	\$41.85	NA
Total Unit Cost/Hour:	\$247.43	
Total Fleet Cost/Hour:	\$247.43	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 4.00 acres

Rip Depth (ft): 1.00

Volume: 6,453

BCY or CCY

Source of estimated quantity: AM-1 maps

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.63</u>	mph
Average Ripping Width:	<u>7.67</u>	degrees
Average Ripping Length:	<u>250.00</u>	feet
Average Dozer Speed:	<u>88.00</u>	feet
Average Maneuver Time:	<u>0.25</u>	feet
Production per unit area:	<u>0.855</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.855 Acres/hr

Site Altitude: 5,800 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.71 Acres/hr

Adjusted Hourly Fleet Production: 0.71 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s)

Total job time: 5.64 Hours

Unit cost: \$348.868 Per acre

Total job cost: \$1,395

WHEEL LOADER – LOAD AND CARRY WORKTask description: Carry topsoil to pad for spreadingSite: St Jude MinePermit Action: 2018 UpdatePermit/Job#: M1978039HR**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 4/5/2018County: San MiguelFilename: M039-006User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 924HAttachment 1: ROPS CabHorsepower: 128Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$18.14	NA
Operating Cost/Hour:	\$20.22	100
Operator Cost/Hour:	\$41.20	NA
Total Unit Cost/Hour:	\$79.56	
Total Fleet Cost/Hour:	\$79.56	

MATERIAL QUANTITIESInitial volume: 1,500

CCY

Swell factor: 1.000Loose volume: 1,500

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Loader Cycle Time:**Unadjusted Basic Cycle Time (load, dump,
maneuver):

0.475

minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.020	minutes
Adjusted Basic Cycle Time:		0.455	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	4.00	4.00	0.1269	(Cat HB)

Return Route:	200	0.00	4.00	4.00	0.1269	(Cat HB)
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Total Travel Time: 0.2539 minutesTotal Cycle Time: 0.7089 minutesLoad Bucket Capacity

Rated Capacity:	<u>2.70</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.050</u>	Moist loam or sandy clay (100% - 110%) 1.050
Adjusted Capacity:	<u>2.84</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: 239.96 LCY/HourAdjusted Hourly Unit Production: 199.16 LCY/HourAdjusted Hourly Fleet Production: 199.16 LCY/HourJOB TIME AND COSTFleet size: 1 Loader(s) Total job time: 7.53 HoursUnit cost: \$0.399 /LCY Total job cost: \$599

BULLDOZER WORKTask description: Spread topsoil on pad areasSite: St Jude MinePermit Action: 2018 UpdatePermit/Job#: M1978039HR**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 4/5/2018County: San MiguelFilename: M039-007User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$100.59	NA
Operating Cost/Hour:	\$87.23	100
Ripper own. Cost/Hour:	\$10.94	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$240.61	
Total Fleet Cost/Hour:	\$240.61	

MATERIAL QUANTITIESInitial Volume: 1,500Swell factor: 1.125Loose volume: 1,688 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly
production: 1,514.3 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push
gradient: 0 %Average site altitude: 5,800 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**Job Condition Correction 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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3930

Adjusted unit
production: 595.12 LCY/hr

Adjusted fleet
production: 595.12 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.404/LCY

Total job time: 2.84 Hours

Total job cost: \$682

BULLDOZER WORKTask description: Grade access roadSite: St Jude MinePermit Action: 2018 UpdatePermit/Job#: M1978039HR**PROJECT IDENTIFICATION**Task #: 008State: ColoradoAbbreviation: NoneDate: 4/5/2018County: San MiguelFilename: M039-008User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$100.59</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$87.23</u>	<u>100</u>
Ripper own.		
Cost/Hour:	<u>\$10.94</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.85</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$240.61</u>	
Total Fleet Cost/Hour:	<u>\$240.61</u>	

MATERIAL QUANTITIESInitial Volume: 325Swell factor: 1.165Loose volume: 379 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 5,800 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction 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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3455

Adjusted unit
production: 729.18 LCY/hr

Adjusted fleet
production: 729.18 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.330/LCY

Total job time: 0.52 Hours

Total job cost: \$125

REVEGETATION WORKTask description: Revegetate disturbed areasSite: St Jude MinePermit Action: 2018 UpdatePermit/Job#: M1978039HR**PROJECT IDENTIFICATION**Task #: 009State: ColoradoAbbreviation: NoneDate: 4/5/2018County: San MiguelFilename: M039-009User: LJWAgency 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
Total Tilling Cost/Acre	\$106.29

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 Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Herbicide - 2,4D @ 1.0 pt/ac	9.00	ACRE	\$2.74	\$24.66
Total Mulch Materials Cost/Acre				\$546.66

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$66.02
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$137.52

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: 9 Cost /Acre: \$1,370.32
 Estimated Failure Rate: 35% Cost /Acre*: \$1,370.32
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$12,332.88
 Reseeding Job Cost: \$4,316.51
 Total Job Cost: \$16,649
 Job Hours: 10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Haul reclamation equipment to and from siteSite: St Jude MinePermit Action: 2018 UpdatePermit/Job#: M1978039HR**PROJECT IDENTIFICATION**Task #: 010State: ColoradoAbbreviation: NoneDate: 4/5/2018County: San MiguelFilename: M039-010User: LJWAgency 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:**

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/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D9T - 9SU	66.13	\$111.53	\$125.45	1	\$236.98	\$125.45	\$250.00
CAT 924H	12.69	\$18.14	\$88.67	1	\$106.81	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: **\$540.38** **\$391.46** **\$1,000.00****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.	\$12.26	1	\$12.26	\$12.26

Subtotals: **\$12.26** **\$12.26**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>NATURITA</u>	
Total one-way travel distance:	<u>40.00</u>	miles
Average Travel Speed:	<u>40.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$6,025.20</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$24.52</u>
'** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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

Total job time:	<u>8.00</u>	Hours
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Total job cost:	<u>\$6,050</u>
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