



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

June 25, 2025

Byron Chrisman
Tomichi Materials, LLC
6909 S Eaton Street
Littleton, CO 80128

Re: Tomichi Pit - File No. M-2013-081
Tomichi Materials, LLC
Surety Increase (SI-1)
Increase FW to \$496,547

Dear Byron Chrisman:

On June 25, 2025 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$496,547.00, in accordance with Rule 4.2.1 of the Rules and Regulations. **This is an increase of \$227,010.90.**

The Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, is due within 60 days.

Please make arrangements with Sara Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567, or by email at sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by August 24, 2025.

If you have any questions, please contact me by telephone at (970) 433-8393, or by email at Dustin.czapla@state.co.us.

Sincerely,

Dustin M. Czapla
Environmental Protection Specialist



COST SUMMARY WORK

Task description: 2025-01-16 Update

Site: Tomichi Pit

Permit Action: 2025-01-16 Update

Permit/Job#: M2013081

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/16/2025

County: Gunnison

Filename: 000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Dewater pond for reclamation	PUMPING	1	1,946.13	\$244,221
02a	Dispose of debris	DEMOLISH	1	5.00	\$517
03a	Carry overburden to pit for backfill	LOADER	4	21.70	\$14,447
04a	Push and compact backfilled slope material	DOZER	1	10.11	\$4,803
05a	Backfill and grade sediment pond	DOZER	1	2.01	\$954
06a	Rip compaction on reclamation haul roads	RIPPER	1	2.22	\$1,080
07a	Carry topsoil to upper slopes for replacement	LOADER	1	12.04	\$2,004
08a	Topsoil replacement on upper slopes	DOZER	1	4.58	\$2,177
09a	Rip compaction on former road areas	RIPPER	1	0.74	\$360
10a	Grade former road areas	DOZER	1	0.91	\$434
11a	Rip compaction on former facilities area	RIPPER	1	0.74	\$360
12a	Grade former facility area	DOZER	1	0.91	\$434
13a	Carry topsoil to facilities & road areas for replacement	LOADER	1	29.03	\$4,832
14a	Spread topsoil on facilities area, roads, and other disturba	DOZER	1	5.80	\$2,753
15a	Revegetate wetland areas	REVEGE	1	10.00	\$4,875
16a	Revegetate rangeland areas (excl. permanent berms)	REVEGE	1	20.00	\$25,981
17a	Revegetate permanent berms	REVEGE	1	10.00	\$9,742
18a	Plant trees on permanent berms	REVEGE	1	10.00	\$4,401
19a	Haul reclamation equipment to and from site	MOBILIZE	1	2.40	\$3,775
<u>SUBTOTALS:</u>				2094.32	\$328,150

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$6,629

Performance bond: 1.05

Total = \$3,446

Job superintendent: 1,047.16

Total = \$83,008

Profit: 10.00

Total = \$32,815

TOTAL O & P = \$125,898

CONTRACT AMOUNT (direct + O & P) = \$454,048

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation:	<u>4.25</u>	Total =	<u>\$19,297</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$22,702</u>
CONTINGENCY:	0.00	Total =	<u>\$0</u>
		TOTAL INDIRECT COST =	<u>\$168,397</u>
		TOTAL BOND AMOUNT (direct + indirect) =	<u>\$496,547</u>

PUMPING WORK

Task description: Dewater pond for reclamation

Site: Tomichi Pit

Permit Action: 2025-01-16 Update

Permit/Job#: M2013081

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 1/16/2025

County: Gunnison

Filename: M081-01a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Centrifugal pump - 125M, 8 in.	2
Attachment 1:		0
Attachment 2:		0
Labor Unit 1:	Pump operator	1
Horsepower:	70	
Shift Basis:	1 per day	
Weight:	1.50	
	(US Tons)	

Cost Breakdown:

	Utilization %
Ownership Cost/Hour: \$48.70	NA
Operating Cost/Hour: \$54.72	100
Operator Cost/Hour: \$22.07	NA
Total Unit Cost/Hour: \$125.49	

Total Fleet Cost/Hour: \$125.49

PUMPING QUANTITIES

Initial Pond Volume:	1,409.00		Conversion factor:	325850.5800
Final Pond Volume:	459,123,467.22	gallons		
Total Pond Inflow Surface Area:	50,000	Sq. ft.	Unit inflow rate in gph/sq. ft.:	0.0000
Total Pond Inflow Volume per Hour:	0.00	gallons		

Source of estimated volume: Permit plan

PUMPING TIME

Maximum Pump Capacity:	125,000	gph/pump
Estimated Suction Head:	5	feet
Estimated Discharge Head:	50	feet
Total Head:	55	feet
CPB Pump Capacity:	98,400	gph/pump
Site Altitude:	7,700	feet
Adjusted Pumping Capacity:	196,800	gph
Initial Unadjusted Pumping Time:	2,332.94	hours
Inflow during Initial Pumping:	0	gallons
Net Unadjusted Pumping Time:	2,332.94	Hours
Altitude Adjustment Factor:	0.9100	(3% rule)
Pump Efficiency Factor:	0.9167	(55 min./hr.)
Total Adjusted Pumping Time:	1,946.14	hours

JOB TIME AND COST

Total job time: 1,946.14 Hours

Unit cost: \$0.000532 /Gallon

Total job cost: \$244,221

DEMOLITION WORK

Task description: Dispose of debris

Site: Tomichi Pit

Permit Action: 2025-01-16 Update

Permit/Job#: M2013081

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 1/16/2025

County: Gunnison

Filename: M081-02a

User: DMC

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 94.70 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Load and haul wood, concrete, metal	20 cy	Loading and 5 mile haul, salvage allowed - Concrete frame structures	20.00	CY	\$16.20	\$324.00
Dump fees for debris	20 cy	Dump fees - Building construction materials.	20.00	CY	\$11.10	\$222.00

Job Hours: 5.00

Subtotal
(unadjusted): \$546.00

Total Cost
(adjusted for location): \$517.06

WHEEL LOADER – LOAD AND CARRY WORKTask description: Carry overburden to pit for backfillSite: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 03A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-03a
 User: DMC

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

Basic Machine: CAT 980H Horsepower: 315
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$69.00</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$60.57</u>	<u>100</u>
Operator Cost/Hour:	<u>\$36.85</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$166.42</u>	
Total Fleet Cost/Hour:	<u>\$665.70</u>	

MATERIAL QUANTITIES

Initial volume: 11,533 CCY Swell factor: 1.165
 Loose volume: 13,436 LCY

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

HOURLY PRODUCTIONLoader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 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:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.000	minutes
Adjusted Basic Cycle Time:		0.550	minutes

Rolling Resistance – Road Conditions

Haul: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0
 Return: 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
Haul Route:	1200	0.00	3.00	3.00	0.9277	(Cat HB)
Return Route:	1200	0.00	3.00	3.00	0.8751	(Cat HB)

Total Travel Time: 1.8029 minutes
 Total Cycle Time: 2.3529 minutes

Load Bucket Capacity

Rated Capacity: 7.50 LCY (heaped)
 Bucket Fill Factor: 0.975 Loose material - mixed moist aggregates (95-100%) 0.975
 Adjusted Capacity: 7.31 LCY

Job Condition Correction Factors

Site Altitude: 7700 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: 186.47 LCY/Hour
 Adjusted Hourly Unit Production: 154.77 LCY/Hour
 Adjusted Hourly Fleet Production: 619.09 LCY/Hour

JOB TIME AND COST

Fleet size: 4 Loader(s) Total job time: 21.70 Hours
 Unit cost: \$1.075 /LCY Total job cost: \$14,447

BULLDOZER WORKTask description: **Push and compact backfilled slope material**Site: **Tomichi Pit** Permit Action: 2025-01-16 Update Permit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 04A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-04a
 User: DMC

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

Basic Machine: Cat D9T - 9SU
 Horsepower: 405
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$474.89
 Total Fleet Cost/Hour: **\$474.89**

MATERIAL QUANTITIES

Initial Volume: 13,436
 Swell factor: 1.000
 Loose volume: **13,436 LCY**

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

HOURLY PRODUCTION

Average push distance: 60 feet
 Unadjusted hourly production: 1,872.0 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: -20 %
 Average site altitude: 7,700 feet

Material weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.200</u>	<u>(S-BY-S)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7096

Adjusted unit production: 1,328.37 LCY/hr

Adjusted fleet production: **1328.37** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.357/LCY

Total job time: **10.11** Hours

Total job cost: **\$4,803**

BULLDOZER WORKTask description: **Backfill and grade sediment pond**Site: **Tomichi Pit** Permit Action: **2025-01-16 Update** Permit/Job#: **M2013081****PROJECT IDENTIFICATION**

Task #: **05A** State: **Colorado** Abbreviation: **None**
 Date: **1/16/2025** County: **Gunnison** Filename: **M081-05a**
 User: **DMC**

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

Basic Machine: **Cat D9T - 9SU**
 Horsepower: **405**
 Blade Type: **Semi-Universal**
 Attachment: **3-shank ripper**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$253.16	NA
Operating Cost/Hour:	\$164.35	100
Ripper own. Cost/Hour:	\$18.79	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$474.89**
 Total Fleet Cost/Hour: **\$474.89**

MATERIAL QUANTITIES

Initial Volume: **936**
 Swell factor: **1.125**
 Loose volume: **1,053 LCY**

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

HOURLY PRODUCTION

Average push distance: **100 feet**
 Unadjusted hourly production: **1,243.2 LCY/hr**

Materials consistency description: **Consolidated stockpile 1.0**

Average push gradient: **-5 %**
 Average site altitude: **7,700 feet**

Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4217

Adjusted unit production: 524.26 LCY/hr

Adjusted fleet production: **524.26** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.906/LCY

Total job time: **2.01** Hours

Total job cost: **\$954**

BULLDOZER RIPPING WORK

Task description: Rip compaction on reclamation haul roads

Site: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081

PROJECT IDENTIFICATION

Task #: 06A State: Colorado Abbreviation: None
Date: 1/16/2025 County: Gunnison Filename: M081-06a
User: DMC

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:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$9.48</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$484.37</u>	
Total Fleet Cost/Hour:	<u>\$484.37</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 1.50 acres Rip Depth (ft): 1.00 Volume: 2,420 BCY or CCY

Source of estimated quantity: Permit map

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.63</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.67</u>	<u>feet/pass</u>
Average Ripping Length:	<u>150.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.811</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.811</u>	<u>Acres/hr</u>
Site Altitude:	<u>7,700</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.67</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.67</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 2.23 Hours

Unit cost: \$719.772 Per acre Total job cost: \$1,080

WHEEL LOADER – LOAD AND CARRY WORKTask description: Carry topsoil to upper slopes for replacementSite: Tomichi PitPermit Action: 2025-01-16 UpdatePermit/Job#: M2013081**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 1/16/2025County: GunnisonFilename: M081-07aUser: DMCAgency 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:	\$69.00	NA
Operating Cost/Hour:	\$60.57	100
Operator Cost/Hour:	\$36.85	NA
Total Unit Cost/Hour:	\$166.42	
Total Fleet Cost/Hour:	\$166.42	

MATERIAL QUANTITIESInitial volume: 2,007

CCY

Swell factor: 1.000Loose volume: 2,007

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): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 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:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.000	minutes
Adjusted Basic Cycle Time:		0.550	minutes

Rolling Resistance – Road ConditionsHaul: 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
Haul Route:	1200	0.00	3.00	3.00	0.9277	(Cat HB)
Return Route:	1200	0.00	3.00	3.00	0.8751	(Cat HB)

Total Travel Time: 1.8029 minutes
 Total Cycle Time: 2.3529 minutes

Load Bucket Capacity

Rated Capacity: 7.50 LCY (heaped)
 Bucket Fill Factor: 1.050 Other - moist loam (100-110%) 1.050
 Adjusted Capacity: 7.88 LCY

Job Condition Correction Factors

Site Altitude: 7700 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: 200.82 LCY/Hour
 Adjusted Hourly Unit Production: 166.68 LCY/Hour
 Adjusted Hourly Fleet Production: 166.68 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 12.04 Hours
 Unit cost: \$0.998 /LCY Total job cost: \$2,004

BULLDOZER WORKTask description: Topsoil replacement on upper slopesSite: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 08A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-08a
 User: DMC

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

Basic Machine: Cat D9T - 9SU
 Horsepower: 405
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$474.89
 Total Fleet Cost/Hour: **\$474.89**

MATERIAL QUANTITIES

Initial Volume: 2,007
 Swell factor: 1.125
 Loose volume: **2,258 LCY**

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

HOURLY PRODUCTION

Average push distance: 80 feet
 Unadjusted hourly production: 1,460.1 LCY/hr

Materials consistency description: Consolidated stockpile 1.0

Average push gradient: -5 %
 Average site altitude: 7,700 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.000</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>0.800</u>	<u>(POOR)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3374

Adjusted unit production: 492.64 LCY/hr

Adjusted fleet production: **492.64** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.964/LCY

Total job time: **4.58** Hours

Total job cost: **\$2,177**

BULLDOZER RIPPING WORK

Task description: Rip compaction on former road areas

Site: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081

PROJECT IDENTIFICATION

Task #: 09A State: Colorado Abbreviation: None
Date: 1/16/2025 County: Gunnison Filename: M081-09a
User: DMC

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:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$9.48</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$484.37</u>	
Total Fleet Cost/Hour:	<u>\$484.37</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.50 acres Rip Depth (ft): 1.00 Volume: 807 BCY or CCY

Source of estimated quantity: Permit plan

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.63</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.67</u>	<u>feet/pass</u>
Average Ripping Length:	<u>150.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.811</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.811</u>	<u>Acres/hr</u>
Site Altitude:	<u>7,700</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.67</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.67</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 0.74 Hours

Unit cost: \$719.772 Per acre Total job cost: \$360

BULLDOZER WORKTask description: **Grade former road areas**Site: **Tomichi Pit** Permit Action: **2025-01-16 Update** Permit/Job#: **M2013081****PROJECT IDENTIFICATION**

Task #: **10A** State: **Colorado** Abbreviation: **None**
 Date: **1/16/2025** County: **Gunnison** Filename: **M081-10a**
 User: **DMC**

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

Basic Machine: **Cat D9T - 9SU**
 Horsepower: **405**
 Blade Type: **Semi-Universal**
 Attachment: **3-shank ripper**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$253.16	NA
Operating Cost/Hour:	\$164.35	100
Ripper own. Cost/Hour:	\$18.79	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$474.89**
 Total Fleet Cost/Hour: **\$474.89**

MATERIAL QUANTITIES

Initial Volume: **605**
 Swell factor: **1.000**
 Loose volume: **605 LCY**

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

HOURLY PRODUCTION

Average push distance: **80 feet**
 Unadjusted hourly production: **1,460.1 LCY/hr**

Materials consistency description: **Loose stockpile 1.2**

Average push gradient: **0 %**
 Average site altitude: **7,700 feet**

Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

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

Net correction: 0.4539

Adjusted unit production: 662.74 LCY/hr

Adjusted fleet production: **662.74** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.717/LCY

Total job time: **0.91** Hours

Total job cost: **\$434**

BULLDOZER RIPPING WORK

Task description: Rip compaction on former facilities area

Site: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081

PROJECT IDENTIFICATION

Task #: 11A State: Colorado Abbreviation: None
Date: 1/16/2025 County: Gunnison Filename: M081-11a
User: DMC

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:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$9.48</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$484.37</u>	
Total Fleet Cost/Hour:	<u>\$484.37</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 0.50 acres Rip Depth (ft): 1.00 Volume: 807 BCY or CCY

Source of estimated quantity: Permit plan

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.63</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.67</u>	<u>feet/pass</u>
Average Ripping Length:	<u>150.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.811</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.811</u>	<u>Acres/hr</u>
Site Altitude:	<u>7,700</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>

Adjusted Hourly Unit Production: 0.67 Acres/hr
Adjusted Hourly Fleet Production: 0.67 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 0.74 Hours

Unit cost: \$719.772 Per acre Total job cost: \$360

BULLDOZER WORKTask description: Grade former facility areaSite: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 12A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-12a
 User: DMC

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

Basic Machine: Cat D9T - 9SU
 Horsepower: 405
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$474.89
 Total Fleet Cost/Hour: **\$474.89**

MATERIAL QUANTITIES

Initial Volume: 605
 Swell factor: 1.000
 Loose volume: **605 LCY**

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

HOURLY PRODUCTION

Average push distance: 80 feet
 Unadjusted hourly production: 1,460.1 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 7,700 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4539

Adjusted unit production: 662.74 LCY/hr

Adjusted fleet production: **662.74** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.717/LCY

Total job time: **0.91** Hours

Total job cost: **\$434**

WHEEL LOADER – LOAD AND CARRY WORKTask description: Carry topsoil to facilities & road areas for replacementSite: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 13A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-13a
 User: DMC

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

Basic Machine: CAT 980H Horsepower: 315
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$69.00	NA
Operating Cost/Hour:	\$60.57	100
Operator Cost/Hour:	\$36.85	NA
Total Unit Cost/Hour:	\$166.42	
Total Fleet Cost/Hour:	\$166.42	

MATERIAL QUANTITIES

Initial volume: 4,840 CCY Swell factor: 1.000
 Loose volume: 4,840 LCY

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

HOURLY PRODUCTIONLoader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 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:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.000	minutes
Adjusted Basic Cycle Time:		0.550	minutes

Rolling Resistance – Road Conditions

Haul: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0
 Return: 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
Haul Route:	1200	0.00	3.00	3.00	0.9277	(Cat HB)
Return Route:	1200	0.00	3.00	3.00	0.8751	(Cat HB)

Total Travel Time: 1.8029 minutes
 Total Cycle Time: 2.3529 minutes

Load Bucket Capacity

Rated Capacity: 7.50 LCY (heaped)
 Bucket Fill Factor: 1.050 Other - moist loam (100-110%) 1.050
 Adjusted Capacity: 7.88 LCY

Job Condition Correction Factors

Site Altitude: 7700 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: 200.82 LCY/Hour
 Adjusted Hourly Unit Production: 166.68 LCY/Hour
 Adjusted Hourly Fleet Production: 166.68 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 29.04 Hours
 Unit cost: \$0.998 /LCY Total job cost: \$4,832

BULLDOZER WORKTask description: Spread topsoil on facilities area, roads, and other disturbaSite: Tomichi Pit Permit Action: 2025-01-16 Update Permit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 14A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-14a
 User: DMC

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

Basic Machine: Cat D9T - 9SU
 Horsepower: 405
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$253.16</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$164.35</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.79</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>

Total unit Cost/Hour: \$474.89
 Total Fleet Cost/Hour: **\$474.89**

MATERIAL QUANTITIES

Initial Volume: 4,840
 Swell factor: 1.125
 Loose volume: **5,445 LCY**

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

HOURLY PRODUCTION

Average push distance: 55 feet
 Unadjusted hourly production: 1,991.3 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 7,700 feet

Material weight: 2,550 lbs/LCYWeight description: Earth - Dry packed

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill: <u>0.750</u>	<u>(AVG.)</u>
Material consistency: <u>1.200</u>	<u>(CAT HB)</u>
Dozing method: <u>1.000</u>	<u>(GEN.)</u>
Visibility: <u>1.000</u>	<u>(AVG.)</u>

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: 0.4717

Adjusted unit production: 939.30 LCY/hr

Adjusted fleet production: **939.3** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.506/LCY

Total job time: **5.80** Hours

Total job cost: **\$2,753**

REVEGETATION WORKTask description: Revegetate wetland areasSite: Tomichi PitPermit Action: 2025-01-16 UpdatePermit/Job#: M2013081**PROJECT IDENTIFICATION**Task #: 15AState: ColoradoAbbreviation: NoneDate: 1/16/2025County: GunnisonFilename: M081-15aUser: DMCAgency 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
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Smooth Brome - Manchar	2.00	6.66	\$10.44
Slender Wheatgrass - San Luis	1.00	3.65	\$6.04
Red Top	0.40	45.82	\$4.19
Timothy - Climax	1.00	28.70	\$4.15
Totals Seed Mix	4.40	84.83	\$24.82

Application

Description	Cost /Acre
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Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$492.78	\$492.78
Total Mulch Materials Cost/Acre				\$492.78

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Total Mulch Application Cost/Acre	\$242.63

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: 2.92 Cost /Acre: \$1,335.67
 Estimated Failure Rate: 25% Cost /Acre*: \$1,335.67
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$3,900.16**
 Reseeding Job Cost: **\$975.04**
 Total Job Cost: **\$4,875**
 Job Hours: **10.00**

REVEGETATION WORKTask description: Revegetate rangeland areas (excl. permanent berms)Site: Tomichi PitPermit Action: 2025-01-16 UpdatePermit/Job#: M2013081**PROJECT IDENTIFICATION**Task #: 16AState: ColoradoAbbreviation: NoneDate: 1/16/2025County: GunnisonFilename: M081-16aUser: DMCAgency 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)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sandberg Bluegrass - VNS	0.60	12.74	\$8.67
Sheep Fescue - Covar	0.70	10.93	\$4.31
Streambank Wheatgrass - Sodar	2.00	6.52	\$16.61
Thickspike Wheatgrass - Critana	2.00	7.07	\$16.30
Western Wheatgrass - Rosanna	5.00	12.63	\$43.87
Totals Seed Mix	10.30	49.89	\$89.76

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$492.78	\$492.78
Total Mulch Materials Cost/Acre				\$492.78

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Total Mulch Application Cost/Acre	\$242.63

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: 13.69 Cost /Acre: \$1,518.22
 Estimated Failure Rate: 25% Cost /Acre*: \$1,518.22
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING
 Initial Job Cost: **\$20,784.43**
 Reseeding Job Cost: **\$5,196.11**
 Total Job Cost: **\$25,981**
 Job Hours: **20.00**

REVEGETATION WORKTask description: Revegetate permanent bermsSite: Tomichi PitPermit Action: 2025-01-16 UpdatePermit/Job#: M2013081**PROJECT IDENTIFICATION**Task #: 17AState: ColoradoAbbreviation: NoneDate: 1/16/2025County: GunnisonFilename: M081-17aUser: DMCAgency 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)	\$117.61
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$456.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sandberg Bluegrass - VNS	0.60	12.74	\$8.67
Sheep Fescue - Covar	0.70	10.93	\$4.31
Streambank Wheatgrass - Sodar	2.00	6.52	\$16.61
Thickspike Wheatgrass - Critana	2.00	7.07	\$16.30
Western Wheatgrass - Rosanna	5.00	12.63	\$43.87
Saltbush, Four Wing	0.50	0.69	\$9.94
Totals Seed Mix	10.80	50.57	\$99.70

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$492.78	\$492.78
Total Mulch Materials Cost/Acre				\$492.78

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Total Mulch Application Cost/Acre	\$242.63

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: 5.1 Cost /Acre: \$1,528.16
 Estimated Failure Rate: 25% Cost /Acre*: \$1,528.16
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$7,793.62
 Reseeding Job Cost: \$1,948.40
 Total Job Cost: \$9,742
 Job Hours: 10.00

REVEGETATION WORKTask description: Plant trees on permanent bermsSite: Tomichi PitPermit Action: 2025-01-16 UpdatePermit/Job#: M2013081**PROJECT IDENTIFICATION**Task #: 18AState: ColoradoAbbreviation: NoneDate: 1/16/2025County: GunnisonFilename: M081-18aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

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

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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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
Juniper, Rocky Mountain	21	Container, 5 gallon (MEANS)	\$81.92	\$0.00	\$1,720.32
Cottonwood, Narrowleaf	28	Container, 5 gallon (MEANS)	\$69.55	\$0.00	\$1,947.40
Totals Nursery Stock Cost / Acre					\$3,667.72

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$3,667.72
Estimated Failure Rate:	20%	Cost /Acre*:	\$3,667.72
*Selected Replanting Work Items:	NURSERY		
Initial Job Cost:	\$3,667.72		
Reseeding Job Cost:	\$733.54		
Total Job Cost:	\$4,401		
Job Hours:	10.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Haul reclamation equipment to and from siteSite: Tomichi PitPermit Action: 2025-01-16 UpdatePermit/Job#: M2013081**PROJECT IDENTIFICATION**

Task #: 19A State: Colorado Abbreviation: None
 Date: 1/16/2025 County: Gunnison Filename: M081-19a
 User: DMC

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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

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	60.01	\$253.16	\$125.64	1	\$378.80	\$125.64	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	4	\$767.12	\$491.12	\$0.00
Centrifugal pump - 125M, 8 in.	1.50	\$24.35	\$59.44	2	\$167.58	\$118.88	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$0.00
Subtotals:					\$1,413.96	\$795.08	\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$24.60	1	\$24.60	\$24.60
Subtotals:			\$24.60	\$24.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GUNNISON
 Total one-way travel distance: 5.00 miles
 Average Travel Speed: 50.00 mph

Total Non-Roadable Mob/Demob Cost * \$3,769.73
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$4.92
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.10	0.10
Return Time (Hours):	0.10	0.10
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.20	0.20

JOB TIME AND COST

Total job time: 2.40 Hours

Total job cost: \$3,775