

## COST SUMMARY WORK

Task description: Updated Reclamation cost based on TR12

Site: Eagle-Gypsum Mine

Permit Action: TR12

Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 1/21/2025

County: Eagle

Filename: M041-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
A1001	Stockpile Staging Area - Overburden Grade	DOZER	1	10.70	\$5,665
A1002	Stockpile Staging Area - Ripping	RIPPER	1	6.48	\$3,433
A1003	Stockpile Staging Area - Topsoil Haul	TRUCK1	1	4.84	\$2,159
A1004	Stockpile Staging Area - Topsoil Grade	DOZER	1	9.63	\$5,102
A2001	Lower Pit - Overburden Grade	DOZER	6	521.54	\$1,657,405
A2002	Lower Pit - Ripping	RIPPER	2	34.71	\$36,771
A2003	Lower Pit - Topsoil Haul- Import	NA	1	51.90	\$2,555,880
A2004	Lower Pit - Topsoil Grade	DOZER	4	15.74	\$33,338
A3001	Upper Pit - Overburden Grade	DOZER	4	138.49	\$293,413
A3002	Upper Pit - Ripping	RIPPER	2	18.75	\$19,872
A3003	Upper Pit - Topsoil Haul - Import	NA	1	28.00	\$1,381,560
A3004	Upper Pit - Topsoil Grade	DOZER	2	59.48	\$63,011
A4002	Main Haul Rd - Ripping	RIPPER	2	11.81	\$12,512
A4003	Main Haul Rd - Topsoil Haul	TRUCK1	1	14.95	\$8,391
A4004	Main Haul Rd - Topsoil Grade	DOZER	2	11.16	\$11,817
A5002	Lower Pit Rd - Ripping	RIPPER	2	10.14	\$10,744
A5003	Lower Pit Rd - Topsoil Haul - Import	NA	1	15.20	\$746,640
A5004	Lower Pit Rd - Topsoil Grade	DOZER	2	7.36	\$7,798
A6002	Sed Pond M201 Rd - Overburden Grade Pond 201 & 301	DOZER	1	13.57	\$7,186
A6003	Sed Pond M201 Rd - Ripping	RIPPER	1	1.65	\$877
A6004	Sed Pond M201 Rd - Topsoil Haul - Import	NA	1	1.20	\$60,690
A6005	Sed Pond M201 Rd - Topsoil Grade	DOZER	1	1.56	\$828
A7002	Sed Pond M601 Rd - Overburden Grade Pond 401, 501 & 601	DOZER	2	3.27	\$3,465
A7003	Sed Pond M601 Rd - Ripping	RIPPER	2	4.14	\$4,387
A7004	Sed Pond M601 Rd - Topsoil Haul - Import	NA	1	6.20	\$305,040
A7005	Sed Pond M201 Rd - Topsoil Grade	DOZER	2	3.91	\$4,144
A8001	Upper Pit Rd Mod - Overburden Grade	DOZER	4	63.47	\$134,475
A8002	Upper Pit Rd Mod - Ripping	RIPPER	2	5.71	\$6,058
A8003	Upper Pit Rd Mod - Topsoil Haul - Import	NA	1	8.50	\$421,080
A8004	Upper Pit Rd Mod - Topsoil Grade	DOZER	2	5.40	\$5,721
B1000	Stockpile Staging Area - Reveg	REVEGE	1	6.40	\$20,362
B2000	Lower Pit - Reveg	REVEGE	1	68.65	\$218,114
B3000	Upper Pit - Reveg	REVEGE	1	37.12	\$117,875
B4000	Main Haul Rd - Reveg	REVEGE	1	23.36	\$74,219
B5000	Lower Pit Rd - Reveg	REVEGE	1	20.05	\$63,728
B6000	Sed Pond M201 Rd - Reveg	REVEGE	1	1.63	\$5,204
B7000	Sed Pond M601 Rd - Reveg	REVEGE	1	8.19	\$26,020

B8000	Upper Pit Rd Mod - Reveg	REVEGE	1	11.31	\$35,932
C2000	Demo 1	DEMOLISH	1	67.80	\$53,904
C4000	Demo 2	DEMOLISH	1	275.99	\$51,232
D1001	Site Maintenance Items	SITE MAINTENANCE	1	460.00	\$102,000
E1001	Plug Drill Holes	BOREHOLE	1	40.00	\$42,411
E1002	Purchase Riprap	NA	1	500.00	\$66,625
E1003	Rock Vortex Weirs - Ad Hoc Remediation Solution	NA	1	500.00	\$125,000
F1001	Initial Mobilization	MOBILIZE	1	3.00	\$37,947
F1002	Secondary Mobilization	MOBILIZE	1	3.00	\$3,082
F1003	Initial Mobilization	MOBILIZE	1	3.00	\$13,652
F1004	Full Time Road Maintenance	SITE MAINTENANCE	1	2,000.00	\$401,810
<b><u>SUBTOTALS:</u></b>				<b>5118.96</b>	<b>\$9,268,579</b>

**INDIRECT COSTS****OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$187,225
Performance bond:	1.05	Total =	\$97,320
Job superintendent:	2,559.48	Total =	\$202,890
Profit:	10.00	Total =	\$926,858
		TOTAL O & P =	\$1,414,293
		CONTRACT AMOUNT (direct + O & P) =	\$10,682,872

**LEGAL - ENGINEERING - PROJECT MANAGEMENT:**

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$454,022
Reclamation management and/or administration:	5.00		\$534,144
CONTINGENCY: 3.00		Total =	\$278,057

TOTAL INDIRECT COST = \$2,681,016

**TOTAL BOND AMOUNT (direct + indirect) = \$11,949,595**

**User Provided Costs - TR12**

M-1984-041

<b>Task Number</b>	<b>Task Description</b>	<b>Task Hrs</b>	<b>Direct Cost</b>
A2003	Lower Pit - Topsoil Haul- Import 21,299 CY @ \$120 CY bought & Delivered	51.9	\$ 2,555,880.00
A3003	Upper Pit - Topsoil Haul- Import 11,513 CY @ \$120 CY bought & Delivered	28	\$ 1,381,560.00
A5003	Lower Pit Rd - Topsoil Haul- Import 6,222 CY @ \$120 CY bought & Delivered	15.2	\$ 746,640.00
A6004	Sed Pond M201 Rd - Topsoil Haul- Import 508 CY @ \$120 CY bought & Delivered	1.2	\$ 60,690.00
A7004	Sed Pond M601 Rd - Topsoil Haul- Import 2,542 CY @ \$120 CY bought & Delivered	6.2	\$ 305,040.00
A8003	Upper Pit Rd Mod - Topsoil Haul- Import 3509 CY @ \$120 CY bought & Delivered	8.5	\$ 421,080.00
E1002	Purchase Riprap	500	\$ 66,625.00
E1003	Rock Vortex Weirs - Ad Hoc	500	\$ 125,000.00

**BULLDOZER WORK**Task description: Stockpile Staging Area - Overburden GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A1001State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-A100110:14:39 AMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Initial Volume: 4,988Swell factor: 1.000Loose volume: **4,988 LCY**Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Dry, non-cohesive 0.8Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 3,375 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

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

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.681	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2713

Adjusted unit production: 466.34 LCY/hr

Adjusted fleet production: **466.34** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.136/LCY

Total job time: **10.70** Hours

Total job cost: **\$5,665**

## BULLDOZER RIPPING WORK

Task description: Stockpile Staging Area - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A1002 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A1002  
10:19:57 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	
Total Fleet Cost/Hour:	<u>\$529.66</u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 4.93 acres Rip Depth (ft): 1.00 Volume: 7,954 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.88 feet/pass  
Average Ripping Width: 8.67 feet/pass  
Average Ripping Length: 150.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.916 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr  
Site Altitude: 6,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: 0.76 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 6.48 Hours

Unit cost: \$696.292 Per acre Total job cost: \$3,433

**TRUCK/LOADER TEAM WORK**Task description: **Stockpile Staging Area - Topsoil Haul**Site: **Eagle-Gypsum Mine**Permit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A1003State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-A100312:15:09 PMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Generic 12-18 cy, 6x4
-Loader:	CAT 966H high lift
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 3,500 Gal.

**Cost Breakdown:****Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	100
Ownership cost/hour:	\$27.14	\$57.78	NA	NA	NA	\$17.11
Operating cost/hour:	\$62.81	\$46.25	NA	NA	NA	\$36.79
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	NA	\$21.12
Unit Subtotals:	\$115.19	\$140.88	NA	NA	NA	\$75.02
Number of Units:	2	1	0	0	0	1
Group Subtotals:	Work: \$371.26		Support: \$0.00		Maint: \$75.02	

Total work team cost/hour: **\$446.28****MATERIAL QUANTITIES**Initial volume: 1,988

CCY

Swell factor: 1.000Loose volume: **1,988**

LCY

Source of estimated volume: TR12 4.63ac @ 3"Source of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00**HOURLY PRODUCTION****Truck Capacity:****Truck Payload (weight) Basis:**Material weight: 1,600

Pounds/LCY

Description: Top SoilRated Payload: 50,300

Pounds

Payload Capacity: 31.44 LCY

**Truck Bed (volume) Basis:**

Struck Volume: 12.00 LCY  
 Heaped Volume: 18.00 LCY  
 Average Volume: 15.00 LCY  
 Adjusted Volume: 18.00 LCY

Final Truck Volume Based on Number of Loader Passes: 15.75 LCY

**Loading Tool Capacity**

Bucket Size Class: NA

Rated Capacity:	<u>5.000</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.050</u>	Other - moist loam (100-110%) 1.050
Adjusted Capacity:	<u>5.250</u>	LCY

**Job Condition Corrections:**

Site Altitude (ft.): 4680 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)

Net Correction: 0.830 0.830

**Loading Tool Cycle Time:** Number of Loading Tool Passes Required to Fill Truck: 3 passes

**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA  
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: \_\_\_\_\_

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.500 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:	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:		<u>0.000</u>	minutes
Adjusted Loader Cycle Time:		<u>0.500</u>	minutes
Net Load Time per Truck:		<u>1.100</u>	minutes

**Truck Cycle Time:**

Truck Exchange Time:	<u>0.50</u>	Minutes	Adjusted for site altitude:	<u>0.500</u>	Minutes
Truck Load Time:	<u>1.100</u>	Minutes	Adjusted for site altitude:	<u>1.100</u>	Minutes
Truck Maneuver and Dump Time:	<u>0.90</u>	Minutes	Adjusted for site altitude:	<u>0.900</u>	Minutes

Truck Travel (Haul & Return) Time:  
maintained 3.0

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,



## Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3000.00	-6.00	3.00	-3.00	2938	1.064

Haul Time: **1.064** minutes

## Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	625.00	0.00	3.00	3.00	2874	0.253

Return Time: **0.253** minutesTotal Truck Cycle Time: **3.817** minutes

Loading Tool unit  
 Production 590.63 LCY/Hour  
 Truck Unit Production  
247.58 LCY/Hour  
 Adjusted for job efficiency: 490.22 LCY/Hour  
 Adjusted for job efficiency: 205.49 LCY/Hour  
 Optimal No. of Trucks: 2 Truck(s)  
 Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 410.98 LCY/Hour  
 Adjusted single truck/loader team production: 410.98 LCY/Hour  
 Adjusted multiple truck/loader team production: **410.98** LCY/Hour

**JOB TIME AND COST**Fleet size: 1 Team(s) Total job time: **4.84** HoursUnit cost: \$1.086 /LCY Total job cost: **\$2,159**

**BULLDOZER WORK**Task description: Stockpile Staging Area - Topsoil GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A1004State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-A100412:23:31 PMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Initial Volume: 6,977Swell factor: 1.000Loose volume: **6,977 LCY**Source of estimated volume: TR12 mixed topsoilSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -5 %Average site altitude: 6,500 feetMaterial weight: 2,500 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4214

Adjusted unit production: 724.34 LCY/hr

Adjusted fleet production: **724.34** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.731/LCY

Total job time: **9.63** Hours

Total job cost: **\$5,102**

**BULLDOZER WORK**Task description: **Lower Pit - Overburden Grade**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **A2001**State: **Colorado**Abbreviation: **None**Date: **1/15/2025**County: **Eagle**Filename: **M041-A2001****12:30:27 PM**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D10T - 10SU**Horsepower: **574**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$529.66**Total Fleet Cost/Hour: **\$3,177.93****MATERIAL QUANTITIES**Initial Volume: **946,869**Swell factor: **1.000**Loose volume: **946,869 LCY**Source of estimated volume: **Division of Reclamation, Mining & Safety**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **300 feet**Unadjusted hourly production: **633.3 LCY/hr**Materials consistency description: **Dry, non-cohesive 0.8**Average push gradient: **-30 %**Average site altitude: **6,500 feet**Material weight: **3,375 lbs/LCY**Weight description: **User Provided****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(CAT HB)
Dozing method:	1.100	(50% SL)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.681	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4778

Adjusted unit production: 302.59 LCY/hr

Adjusted fleet production: **1815.54** LCY/hr

### **JOB TIME AND COST**

Fleet size: 6 Dozer(s)

Unit cost: \$1.750/LCY

Total job time: **521.54** Hours

Total job cost: **\$1,657,405**

## BULLDOZER RIPPING WORK

Task description: Lower Pit - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A2002 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A2002  
10:21:44 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	
Total Fleet Cost/Hour:	<u><b>\$1,059.31</b></u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 52.81 acres Rip Depth (ft): 1.00 Volume: 85,200 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.88</u>	<u>feet/pass</u>
Average Ripping Width:	<u>8.67</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>0.916</u>	<u>acres/hour</u>

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.916</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,500</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: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: **1.52** Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **34.71** Hours

Unit cost: \$696.292 Per acre Total job cost: **\$36,771**

**BULLDOZER WORK**Task description: **Lower Pit - Topsoil Grade**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **A2004**State: **Colorado**Abbreviation: **None**Date: **1/15/2025**County: **Eagle**Filename: **M041-A2004****12:38:12 PM**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D10T - 10SU**Horsepower: **574**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$529.66**Total Fleet Cost/Hour: **\$2,118.62****MATERIAL QUANTITIES**Initial Volume: **45,592**Swell factor: **1.000**Loose volume: **45,592 LCY**Source of estimated volume: **TR12 50/50 topsoil mix**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **100 feet**Unadjusted hourly production: **1,718.9 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**Average push gradient: **-5 %**Average site altitude: **6,500 feet**Material weight: **2,500 lbs/LCY**Weight description: **User Provided****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4214

Adjusted unit production: 724.34 LCY/hr

Adjusted fleet production: **2897.36** LCY/hr

### **JOB TIME AND COST**

Fleet size: 4 Dozer(s)

Unit cost: \$0.731/LCY

Total job time: **15.74** Hours

Total job cost: **\$33,338**



**BULLDOZER WORK**Task description: Upper Pit - Overburden GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A3001State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-A300112:44:51 PMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$2,118.62**MATERIAL QUANTITIES**Initial Volume: 199,933Swell factor: 1.000Loose volume: 199,933 LCYSource of estimated volume: TR12 InstraburdenSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 155 feetUnadjusted hourly production: 1,209.5 LCY/hrMaterials consistency description: Dry, non-cohesive 0.8Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 3,375 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(CAT HB)
Dozing method:	1.100	(50% SL)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.681	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2984

Adjusted unit production: 360.91 LCY/hr

Adjusted fleet production: **1443.64** LCY/hr

### **JOB TIME AND COST**

Fleet size: 4 Dozer(s)  
Unit cost: \$1.468/LCY

Total job time: **138.49** Hours  
Total job cost: **\$293,413**

## BULLDOZER RIPPING WORK

Task description: Upper Pit - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A3002 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A3002  
10:22:24 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper Ownership Cost/Hour:	\$25.02	NA
Ripper Operating Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$529.66	
Total Fleet Cost/Hour:	<b>\$1,059.31</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 28.54 acres Rip Depth (ft): 1.00 Volume: 46,045 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.88 feet/pass  
Average Ripping Width: 8.67 feet/pass  
Average Ripping Length: 150.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.916 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr  
Site Altitude: 6,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: 1.52 Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 18.76 Hours

Unit cost: \$696.292 Per acre Total job cost: \$19,872

**BULLDOZER WORK**Task description: Upper Pit - Topsoil GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A3004State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-A300412:49:18 PMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$1,059.31**MATERIAL QUANTITIES**Initial Volume: 23,026Swell factor: 1.000Loose volume: 23,026 LCYSource of estimated volume: TR12 50/50 Topsoil MixSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 30 %Average site altitude: 6,500 feetMaterial weight: 2,500 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1126

Adjusted unit production: 193.55 LCY/hr

Adjusted fleet production: **387.1 LCY/hr**

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$2.737/LCY

Total job time: **59.48 Hours**

Total job cost: **\$63,011**

## BULLDOZER RIPPING WORK

Task description: Main Haul Rd - Ripping

Site: Eagle-Gypsum Mine

Permit Action: TR12

Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A4002

State: Colorado

Abbreviation: None

Date: 1/15/2025

County: Eagle

Filename: M041-A4002

10:23:14 AM

User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU

Ripper Attachment: 3-Shank Ripper

Horsepower: 574

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper Ownership Cost/Hour:	\$25.02	NA
Ripper Operating Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$529.66	
Total Fleet Cost/Hour:	<b>\$1,059.31</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 17.97 acres

Rip Depth (ft): 1.00

Volume: 28,992

BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.88</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>150.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.916</u>	acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr

Site Altitude: 6,500 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr

Adjusted Hourly Fleet Production: **1.52** Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s)

Total job time: **11.81** Hours

Unit cost: \$696.292 Per acre

Total job cost: **\$12,512**

**TRUCK/LOADER TEAM WORK**Task description: Main Haul Rd - Topsoil HaulSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A4003State: ColoradoAbbreviation: NoneDate: 11/7/2024County: EagleFilename: M041-A4003User: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

		Equipment Description
Truck Loader Team -Truck:		Generic 12-18 cy, 6x4
-Loader:		CAT 966H high lift
Support Equipment -Load Area:		NA
-Dump Area:		NA
Road Maintenance -Motor Grader:		NA
-Water Truck:		Water Tanker, 3,500 Gal.

**Cost Breakdown:****Truck/Loader Team****Support Equipment****Maintenance Equipment**

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	100
Ownership cost/hour:	\$27.14	\$57.78	NA	NA	NA	\$17.11
Operating cost/hour:	\$62.81	\$46.25	NA	NA	NA	\$36.79
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	NA	\$21.12
Unit Subtotals:	\$115.19	\$140.88	NA	NA	NA	\$75.02
Number of Units:	3	1	0	0	0	1
Group Subtotals:	Work: \$486.45		Support: \$0.00		Maint: \$75.02	

Total work team cost/hour: \$561.47**MATERIAL QUANTITIES**Initial volume: 7,248

CCY

Swell factor: 1.000Loose volume: 7,248

LCY

Source of estimated volume: TR12 17.97 ac @ 3"Source of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00**HOURLY PRODUCTION****Truck Capacity:**Truck Payload (weight) Basis:Material weight: 2,500

Pounds/LCY

Description: User ProvidedRated Payload: 50,300

Pounds

Payload Capacity: 20.12

LCY

**Truck Bed (volume) Basis:**

Struck Volume:	12.00	LCY
Heaped Volume:	18.00	LCY
Average Volume:	15.00	LCY
Adjusted Volume:	18.00	LCY

Final Truck Volume Based on Number of Loader Passes: **15.75** LCY

**Loading Tool Capacity**

Bucket Size Class: NA

Rated Capacity:	5.000	LCY (heaped)
Bucket Fill Factor:	1.050	Other - moist loam (100-110%) 1.050
Adjusted Capacity:	<b>5.250</b>	LCY

**Job Condition Corrections:**

Site Altitude (ft.): 4680 feet

	<b>Truck</b>	<b>Loader</b>	<b>Source</b>
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)

Net Correction: **0.830** **0.830**

**Loading Tool Cycle Time:** Number of Loading Tool Passes Required to Fill Truck: 3 passes

**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA  
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: \_\_\_\_\_

**Cycle Time Elements (min.):**

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.500 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:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.000	minutes
Adjusted Loader Cycle Time:		<b>0.500</b>	minutes
Net Load Time per Truck:		<b>1.100</b>	minutes

**Truck Cycle Time:**

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	1.100	Minutes	Adjusted for site altitude:	1.100	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time:  
maintained 3.0

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,



## Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3070.00	0.00	3.00	3.00	2824	1.248

Haul Time: **1.248** minutes

## Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3070.00	0.00	3.00	3.00	2874	1.104

Return Time: **1.104** minutesTotal Truck Cycle Time: **4.852** minutes

## Loading Tool unit

Production 590.63 LCY/Hour      Adjusted for job efficiency: 490.22 LCY/Hour  
Truck Unit Production 194.77 LCY/Hour      Adjusted for job efficiency: 161.65 LCY/Hour

Optimal No. of Trucks: 3 Truck(s)      Selected Number of Trucks: 3 Truck(s)

Adjusted hourly truck team production: 484.96 LCY/Hour  
Adjusted single truck/loader team production: 484.96 LCY/Hour  
Adjusted multiple truck/loader team production: **484.96** LCY/Hour

**JOB TIME AND COST**Fleet size: 1 Team(s)      Total job time: **14.95** HoursUnit cost: \$1.158 /LCY      Total job cost: **\$8,391**

**BULLDOZER WORK**Task description: Main Haul Rd - Topsoil GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A4004State: ColoradoAbbreviation: NoneDate: 11/7/2024County: EagleFilename: M041-A4004User: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$1,059.31**MATERIAL QUANTITIES**Initial Volume: 14,496Swell factor: 1.000Loose volume: 14,496 LCYSource of estimated volume: TR 12 50/50 topsoil mixSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 2,500 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3780

Adjusted unit production: 649.74 LCY/hr

Adjusted fleet production: **1299.48** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$0.815/LCY

Total job time: **11.16** Hours

Total job cost: **\$11,817**

## BULLDOZER RIPPING WORK

Task description: Lower Pit Rd - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A5002 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A5002  
10:24:20 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	
Total Fleet Cost/Hour:	<u><b>\$1,059.31</b></u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 15.43 acres Rip Depth (ft): 1.00 Volume: 24,894 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.88 feet/pass  
Average Ripping Width: 8.67 feet/pass  
Average Ripping Length: 150.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.916 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr  
Site Altitude: 6,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: **1.52** Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **10.14** Hours

Unit cost: \$696.292 Per acre Total job cost: **\$10,744**

**BULLDOZER WORK**Task description: **Lower Pit Rd - Topsoil Grade**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **A5004**State: **Colorado**Abbreviation: **None**Date: **1/21/2025**County: **Eagle**Filename: **M041-A5004****10:21:18 AM**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D10T - 10SU**Horsepower: **574**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$529.66**Total Fleet Cost/Hour: **\$1,059.31****MATERIAL QUANTITIES**Initial Volume: **12,444**Swell factor: **1.000**Loose volume: **12,444 LCY**Source of estimated volume: **TR-12 AR4 spreadsheet**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **100 feet**Unadjusted hourly production: **1,718.9 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**Average push gradient: **-5 %**Average site altitude: **6,500 feet**Material weight: **2,500 lbs/LCY**Weight description: **User Provided****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4917

Adjusted unit production: 845.18 LCY/hr

Adjusted fleet production: **1690.36** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$0.627/LCY

Total job time: **7.36** Hours

Total job cost: **\$7,798**

**BULLDOZER WORK**Task description: **Sed Pond M201 Rd - Overburden Grade Pond 201 & 301**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **A6002**State: **Colorado**Abbreviation: **None**Date: **1/21/2025**County: **Eagle**Filename: **M041-A6002****10:26:50 AM**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D10T - 10SU**Horsepower: **574**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$529.66**Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Initial Volume: **6,327**Swell factor: **1.000**Loose volume: **6,327 LCY**Source of estimated volume: **TR12 AR4 Spreadsheet**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **100 feet**Unadjusted hourly production: **1,718.9 LCY/hr**Materials consistency description: **Wet, highly cohesive 0.8**Average push gradient: **0 %**Average site altitude: **6,500 feet**Material weight: **3,375 lbs/LCY**Weight description: **User Provided****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(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:	0.681	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2713

Adjusted unit production: 466.34 LCY/hr

Adjusted fleet production: **466.34** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.136/LCY

Total job time: **13.57** Hours

Total job cost: **\$7,186**



## BULLDOZER RIPPING WORK

Task description: Sed Pond M201 Rd - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A6003 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A6003  
10:25:00 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	
Total Fleet Cost/Hour:	<u>\$529.66</u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 1.26 acres Rip Depth (ft): 1.00 Volume: 2,033 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.88 feet/pass  
Average Ripping Width: 8.67 feet/pass  
Average Ripping Length: 150.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.916 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr  
Site Altitude: 6,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: 0.76 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 1.66 Hours

Unit cost: \$696.292 Per acre Total job cost: \$877

**BULLDOZER WORK**Task description: Sed Pond M201 Rd - Topsoil GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A6005State: ColoradoAbbreviation: NoneDate: 1/21/2025County: EagleFilename: M041-A600510:36:50 AMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$529.66**MATERIAL QUANTITIES**Initial Volume: 1,016Swell factor: 1.000Loose volume: 1,016 LCYSource of estimated volume: TR 12 Mixed 50/50 topsoilSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 2,500 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3780

Adjusted unit production: 649.74 LCY/hr

Adjusted fleet production: **649.74** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.815/LCY

Total job time: **1.56** Hours

Total job cost: **\$828**

**BULLDOZER WORK**Task description: **Sed Pond M601 Rd - Overburden Grade Pond 401, 501 & 601**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **A7002**State: **Colorado**Abbreviation: **None**Date: **1/21/2025**County: **Eagle**Filename: **M041-A7002****11:15:54 AM**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D10T - 10SU**Horsepower: **574**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$529.66**Total Fleet Cost/Hour: **\$1,059.31****MATERIAL QUANTITIES**Initial Volume: **3,051**Swell factor: **1.000**Loose volume: **3,051 LCY**Source of estimated volume: **TR12**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **100 feet**Unadjusted hourly production: **1,718.9 LCY/hr**Materials consistency description: **Wet, highly cohesive 0.8**Average push gradient: **0 %**Average site altitude: **6,500 feet**Material weight: **3,375 lbs/LCY**Weight description: **User Provided****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(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:	0.681	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2713

Adjusted unit production: 466.34 LCY/hr

Adjusted fleet production: **932.68** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$1.136/LCY

Total job time: **3.27** Hours

Total job cost: **\$3,465**

## BULLDOZER RIPPING WORK

Task description: Sed Pond M601 Rd - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A7003 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A7003  
10:25:38 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper Ownership Cost/Hour:	\$25.02	NA
Ripper Operating Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$529.66	
Total Fleet Cost/Hour:	<b>\$1,059.31</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 6.30 acres Rip Depth (ft): 1.00 Volume: 10,164 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.88 feet/pass  
Average Ripping Width: 8.67 feet/pass  
Average Ripping Length: 150.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.916 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr  
Site Altitude: 6,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: 1.52 Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: 4.14 Hours

Unit cost: \$696.292 Per acre Total job cost: \$4,387

**BULLDOZER WORK**Task description: Sed Pond M201 Rd - Topsoil GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A7005State: ColoradoAbbreviation: NoneDate: 1/21/2025County: EagleFilename: M041-A700511:22:42 AMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$1,059.31**MATERIAL QUANTITIES**Initial Volume: 5,083Swell factor: 1.000Loose volume: 5,083 LCYSource of estimated volume: TR12Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 2,500 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3780

Adjusted unit production: 649.74 LCY/hr

Adjusted fleet production: **1299.48** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$0.815/LCY

Total job time: **3.91** Hours

Total job cost: **\$4,144**



**BULLDOZER WORK**Task description: Upper Pit Rd Mod - Overburden GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A8001State: ColoradoAbbreviation: NoneDate: 1/21/2025County: EagleFilename: M041-A800112:35:57 PMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$2,118.62**MATERIAL QUANTITIES**Initial Volume: 118,400Swell factor: 1.000Loose volume: 118,400 LCYSource of estimated volume: TR12Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Dry, non-cohesive 0.8Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 3,375 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

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

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.681	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2713

Adjusted unit production: 466.34 LCY/hr

Adjusted fleet production: **1865.36** LCY/hr

### **JOB TIME AND COST**

Fleet size: 4 Dozer(s)

Unit cost: \$1.136/LCY

Total job time: **63.47** Hours

Total job cost: **\$134,475**

## BULLDOZER RIPPING WORK

Task description: Upper Pit Rd Mod - Ripping

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: A8002 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-A8002  
10:26:15 AM  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU Horsepower: 574  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	
Total Fleet Cost/Hour:	<u><b>\$1,059.31</b></u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 8.70 acres Rip Depth (ft): 1.00 Volume: 14,036 BCY or CCY

Source of estimated quantity: TR12

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.88</u>	<u>feet/pass</u>
Average Ripping Width:	<u>8.67</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>0.916</u>	<u>acres/hour</u>

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.916</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,500</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: 0.76 Acres/hr  
Adjusted Hourly Fleet Production: **1.52** Acres/hr

### JOB TIME AND COST

Fleet size: 2 Grader(s) Total job time: **5.72** Hours

Unit cost: \$696.292 Per acre Total job cost: **\$6,058**

**BULLDOZER WORK**Task description: Upper Pit Rd Mod - Topsoil GradeSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: A8004State: ColoradoAbbreviation: NoneDate: 1/21/2025County: EagleFilename: M041-A800412:38:38 PMUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: \$529.66Total Fleet Cost/Hour: \$1,059.31**MATERIAL QUANTITIES**Initial Volume: 7,018Swell factor: 1.000Loose volume: 7,018 LCYSource of estimated volume: TR12Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,500 feetMaterial weight: 2,500 lbs/LCYWeight description: User Provided**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3780

Adjusted unit production: 649.74 LCY/hr

Adjusted fleet production: **1299.48** LCY/hr

### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$0.815/LCY

Total job time: **5.40** Hours

Total job cost: **\$5,721**

**REVEGETATION WORK**Task description: Stockpile Staging Area - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: B1000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B100010:46:12 AMUser: ACYAgency 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
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$220.02</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
Bottlebrush Squirreltail	1.40	6.17	\$35.57
			\$
<b>Totals Seed Mix</b>			<b>\$</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Seed Application Cost/Acre</b>	<b>\$</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$</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: 4.93                      Cost /Acre: \$3,177.05  
 Estimated Failure Rate: 30%                      Cost /Acre\*: \$3,177.05  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$15,662.86**  
 Reseeding Job Cost: **\$4,698.86**  
 Total Job Cost: **\$20,362**  
 Job Hours: **6.40**

**REVEGETATION WORK**Task description: Lower Pit - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: B2000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B200010:47:44 AMUser: ACYAgency 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
	\$
<b>Total Tilling Cost/Acre</b>	\$

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
Bottlebrush Squirreltail	1.40	6.17	\$35.57
Sandberg Bluegrass - VNS	0.40	8.49	\$5.78
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37
Muttongrass	0.30	6.20	\$14.30
Rabbitbrush, Rubber	0.25	3.72	\$20.85
Winter Fat	1.50	3.82	\$70.09
Bluebunch Wheatgrass - Goldar	2.80	9.00	\$32.09



<b>Totals Seed Mix</b>	11.65	54.34	<b>\$250.37</b>
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydro seeding (MEANS 32 92 19.14 0200)	\$1,359.07
<b>Total Seed Application Cost/Acre</b>	<b>\$1,359.07</b>

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

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$</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:	52.81	Cost /Acre:	\$3,177.05
Estimated Failure Rate:	30%	Cost /Acre*:	\$3,177.05
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$167,780.01		
Reseeding Job Cost:	\$50,334.00		
Total Job Cost:	\$218,114		
Job Hours:	68.65		

**REVEGETATION WORK**Task description: Upper Pit - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: B3000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B300010:49:21 AMUser: ACYAgency 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
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$220.02</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
Bottlebrush Squirreltail	1.40	6.17	\$35.57
Sandberg Bluegrass - VNS	0.40	8.49	\$5.78
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37
Muttongrass	0.30	6.20	\$14.30
Rabbitbrush, Rubber	0.25	3.72	\$20.85
Winter Fat	1.50	3.82	\$70.09
Bluebunch Wheatgrass - Goldar	2.80	9.00	\$32.09

<b>Totals Seed Mix</b>	11.65	54.34	<b>\$250.37</b>
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydro seeding (MEANS 32 92 19.14 0200)	\$1,359.07
<b>Total Seed Application Cost/Acre</b>	<b>\$1,359.07</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>\$</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$</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: 28.54                      Cost /Acre: \$3,177.05  
 Estimated Failure Rate: 30%                      Cost /Acre\*: \$3,177.05  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING  
 Initial Job Cost: **\$90,673.01**  
 Reseeding Job Cost: **\$27,201.90**  
 Total Job Cost: **\$117,875**  
 Job Hours: **37.12**

**REVEGETATION WORK**Task description: Main Haul Rd - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: B4000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B400010:50:54 AMUser: ACYAgency 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
	\$
<b>Total Tilling Cost/Acre</b>	\$

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
			\$
<b>Totals Seed Mix</b>			\$

**Application**

Cost /Acre
------------

Description	
	\$
<b>Total Seed Application Cost/Acre</b>	<b>\$</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$</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: 17.97                      Cost /Acre: \$3,177.05  
 Estimated Failure Rate: 30%                      Cost /Acre\*: \$3,177.05  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$57,091.59**  
 Reseeding Job Cost: **\$17,127.48**  
 Total Job Cost: **\$74,219**  
 Job Hours: **23.36**

**REVEGETATION WORK**Task description: Lower Pit Rd - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: B5000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B500010:52:26 AMUser: ACYAgency 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
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$220.02</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
			\$
<b>Totals Seed Mix</b>			<b>\$</b>

**Application**

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Description	Cost /Acre
	\$
<b>Total Seed Application Cost/Acre</b>	<b>\$</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$</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: 15.43                      Cost /Acre: \$3,177.05  
 Estimated Failure Rate: 30%                      Cost /Acre\*: \$3,177.05  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$49,021.88**  
 Reseeding Job Cost: **\$14,706.56**  
 Total Job Cost: **\$63,728**  
 Job Hours: **20.05**

REVEGETATION WORKTask description: Sed Pond M201 Rd - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041PROJECT IDENTIFICATIONTask #: B6000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B600010:54:02 AMUser: ACYAgency or organization name: DRMSFERTILIZING**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
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$220.02</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
Bottlebrush Squirreltail	1.40	6.17	\$35.57
Sandberg Bluegrass - VNS	0.40	8.49	\$5.78
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37
Muttongrass	0.30	6.20	\$14.30
Rabbitbrush, Rubber	0.25	3.72	\$20.85
Winter Fat	1.50	3.82	\$70.09
Bluebunch Wheatgrass - Goldar	2.80	9.00	\$32.09



<b>Totals Seed Mix</b>	11.65	54.34	<b>\$250.37</b>
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydro seeding (MEANS 32 92 19.14 0200)	\$1,359.07
<b>Total Seed Application Cost/Acre</b>	<b>\$1,359.07</b>

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

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
<b>Total Mulch Application Cost/Acre</b>	<b>\$325.89</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: 1.26 Cost /Acre: \$3,177.05  
 Estimated Failure Rate: 30% Cost /Acre\*: \$3,177.05  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING  
 Initial Job Cost: **\$4,003.08**  
 Reseeding Job Cost: **\$1,200.92**  
 Total Job Cost: **\$5,204**  
 Job Hours: **1.63**

**REVEGETATION WORK**Task description: Sed Pond M601 Rd - RevegSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: B7000State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-B700010:55:38 AMUser: ACYAgency 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
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$220.02</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
Bottlebrush Squirreltail	1.40	6.17	\$35.57
Sandberg Bluegrass - VNS	0.40	8.49	\$5.78
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37
Muttongrass	0.30	6.20	\$14.30
Rabbitbrush, Rubber	0.25	3.72	\$20.85
Winter Fat	1.50	3.82	\$70.09
Bluebunch Wheatgrass - Goldar	2.80	9.00	\$32.09

<b>Totals Seed Mix</b>	11.65	54.34	<b>\$250.37</b>
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydro seeding (MEANS 32 92 19.14 0200)	\$1,359.07
<b>Total Seed Application Cost/Acre</b>	<b>\$1,359.07</b>

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

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
<b>Total Mulch Application Cost/Acre</b>	<b>\$325.89</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:	6.3	Cost /Acre:	\$3,177.05
Estimated Failure Rate:	30%	Cost /Acre*:	\$3,177.05
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$20,015.42		
Reseeding Job Cost:	\$6,004.62		
Total Job Cost:	\$26,020		
Job Hours:	8.19		

**REVEGETATION WORK**Task description: Upper Pit Rd Mod - RevegSite: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041**PROJECT IDENTIFICATION**

Task #: B8000 State: Colorado Abbreviation: None  
 Date: 1/15/2025 County: Eagle Filename: M041-B8000  
 10:56:51 AM  
 User: ACY

Agency 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
Chisel plowing {DMG}	\$102.41
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
<b>Total Tilling Cost/Acre</b>	<b>\$220.02</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$51.33
Bottlebrush Squirreltail	1.40	6.17	\$35.57
Sandberg Bluegrass - VNS	0.40	8.49	\$5.78
Thickspike Wheatgrass - Critana	2.50	8.84	\$20.37
Muttongrass	0.30	6.20	\$14.30
Rabbitbrush, Rubber	0.25	3.72	\$20.85
Winter Fat	1.50	3.82	\$70.09
Bluebunch Wheatgrass - Goldar	2.80	9.00	\$32.09

<b>Totals Seed Mix</b>	11.65	54.34	<b>\$250.37</b>
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**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydro seeding (MEANS 32 92 19.14 0200)	\$1,359.07
<b>Total Seed Application Cost/Acre</b>	<b>\$1,359.07</b>

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

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$36.14	\$36.14
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$1,021.70</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
<b>Total Mulch Application Cost/Acre</b>	<b>\$325.89</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: 8.7 Cost /Acre: \$3,177.05  
 Estimated Failure Rate: 30% Cost /Acre\*: \$3,177.05  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING  
 Initial Job Cost: \$27,640.34  
 Reseeding Job Cost: \$8,292.10  
 Total Job Cost: \$35,932  
 Job Hours: 11.31

## DEMOLITION WORK

Task description: **Demo 1**

Site: **Eagle-Gypsum Mine**

Permit Action: **TR12**

Permit/Job#: **M1984041**

### PROJECT IDENTIFICATION

Task #: **C2000**

State: **Colorado**

Abbreviation: **None**

Date: **1/15/2025**

County: **Eagle**

Filename: **M041-C2000**

**12:41:01 PM**

User: **ACY**

Agency or organization name: **DRMS**

### UNIT COSTS

**Location adjustment: 102.20 %**

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Used Oil Tank	1000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Used Oil Tank - Demo Cinder Blocks	4x11.5	Wall, block, demolition only, 8 in. thick - No reinforcing	46.00	SF	\$0.99	\$45.54
Used Oil Tank - Haul foundation	4x11.5	Loading and 2 mile haul, no salvage - Machine loading	1.00	CY	\$21.15	\$21.15
Flammable Cabinet - Haul	4x10.5	Loading and 2 mile haul, no salvage - Machine loading	16.00	CY	\$21.15	\$338.40
Clear Diesel Tank	4000 gal	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Dyed Deisel Tank	10000 gal	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Generator - Haul	4x11	Loading and 2 mile haul, no salvage - Machine loading	13.00	CY	\$21.15	\$274.95
Main Breaker Box - Haul	4.5x11	Loading and 2 mile haul, no salvage - Machine loading	13.00	CY	\$21.15	\$274.95
Parts Storage 1 - Bldg	13x33x10	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	4,290.00	CF	\$0.53	\$2,291.29
Parts Storage 1 - Demo Cinder Blocks	13x33	Wall, block, demolition only, 8 in. thick - No reinforcing	429.00	SF	\$0.99	\$424.71
Parts Storage 1 - Haul Foundation	13x33	Loading and 2 mile haul, no salvage - Machine loading	16.00	CY	\$21.15	\$338.40
Parts Storage 1 (Outer)	11x15.5	Floor, concrete, demolition only, average reinforcing - 6 in. thick	171.00	SF	\$1.10	\$188.54
Parts Storage 1 (Outer) - Haul Foundation	11x15.5	Loading and 2 mile haul, no salvage - Machine loading	3.00	CY	\$21.15	\$63.45
Maintenance Shop	42x44x20	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile	42,504.00	CF	\$0.53	\$22,701.39

		haul				
Maintenance Shop - Floor	42x44	Floor, concrete, demolition only, average reinforcing - 12 in. thick	1,848.00	SF	\$2.21	\$4,075.21
Maintenance Shop - haul foundation	42x44	Loading and 2 mile haul, no salvage - Machine loading	34.00	CY	\$21.15	\$719.10
Parts Storage 2	9x42x12	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	5,103.00	CF	\$0.53	\$2,725.51
Parts Storage 3	11.2x13	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	1,456.00	CF	\$0.53	\$777.65
Main Office	14.5x56.5	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	9,831.00	CF	\$0.53	\$5,250.74
Main Office - Cinder Blocks	14.5x56.5	Wall, block, demolition only, 8 in. thick - No reinforcing	614.00	SF	\$0.99	\$607.86
Main Office - Haul Foundation	14.5x56.5	Loading and 2 mile haul, no salvage - Machine loading	23.00	CY	\$21.15	\$486.45
Propane Tanks	200 gal	Loading and 2 mile haul, no salvage - Machine loading	1.00	CY	\$21.15	\$21.15
Block Heater Breaker Box	4.5x7.5	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	270.00	CF	\$0.53	\$144.21
Block Heater Breaker - Floor	4.5x7.5	Floor, concrete, demolition only, average reinforcing - 6 in. thick	34.00	SF	\$1.10	\$37.49
Truck Shed- Canopy	12x30x12	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	4,320.00	CF	\$0.53	\$2,307.31
Truck Shed- Foundation	12x16	Floor, concrete, demolition only, average reinforcing - 6 in. thick	192.00	SF	\$1.10	\$211.70
*Additional Hualage	28 Mi for 325 CY	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	505.00	MI	\$4.43	\$2,238.92
* Dump Fees	325 CY	Dump fees - Building construction materials.	325.00	CY	\$11.10	\$3,607.50

Job Hours: 67.80

**Subtotal**  
(unadjusted): \$52,743.57

**Total Cost**  
**(adjusted for location):** \$53,903.93

## DEMOLITION WORK

Task description: Demo 2

Site: Eagle-Gypsum Mine

Permit Action: TR12

Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: C4000

State: Colorado

Abbreviation: None

Date: 6/26/2024

County: Eagle

Filename: M041-C4000

User: ACY

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 86.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
North Fence	4'H x 1365LF	Fencing, barbed wire, - 5 strand	1,365.00	LF	\$2.80	\$3,822.00
Mine sign / Gate	-	USER PROVIDED ITEM	1.00	EA	\$1,250.00	\$1,250.00
Culvert 1	60" x 320 LF	USER PROVIDED ITEM	1.00	EA	\$7,968.00	\$7,968.00
Culvert 2	36" x 323 LF	USER PROVIDED ITEM	1.00	EA	\$8,042.70	\$8,042.70
Culvert 3	24" x 142 LF	USER PROVIDED ITEM	1.00	EA	\$3,535.80	\$3,535.80
Culvert 4	60" x 440 LF	USER PROVIDED ITEM	1.00	EA	\$10,956.00	\$10,956.00
Culvert 5	36" x 284 LF	USER PROVIDED ITEM	1.00	EA	\$7,071.60	\$7,071.60
Culvert 6	36" x 252 LF	USER PROVIDED ITEM	1.00	EA	\$6,274.80	\$6,274.80
Culvert 7	36" x 143 LF	USER PROVIDED ITEM	1.00	EA	\$3,560.70	\$3,560.70
Culvert 28	36" x 260 LF	USER PROVIDED ITEM	1.00	EA	\$6,474.00	\$6,474.00

Job Hours: 275.99

Subtotal  
(unadjusted): \$58,955.60

Total Cost  
(adjusted for location): \$51,232.42



SITE MAINTENANCE

Task description: Full Time Road Maintenance

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

**PROJECT IDENTIFICATION**

Task #: F1004 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-F1004  
11:30:18 AM  
User: ACY

Agency or organization name: DRMS

**UNIT COSTS**

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Grader	1000.00	CAT 16M	1,000.00	EA	\$326.79	\$326,790.00
Water Truck	1000.00	Water Tanker, 3,500 Gal.	1,000.00	EA	\$75.02	\$75,020.00

Job Hours: 2,000.00

Total Cost: \$401,810.00

## BOREHOLE SEALING WORK

Task description: Plug Drill Holes

Site: Eagle-Gypsum Mine

Permit Action: TR12

Permit/Job#: M1984041

### PROJECT IDENTIFICATION

Task #: E1001

State: Colorado

Abbreviation: None

Date: 1/15/2025

County: Eagle

Filename: M041-E1001

11:27:11 AM

User: ACY

Agency or organization name: DRMS

### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Exploratory Holes x 20	Portland cement grout - 8 in. (labor, equip, materials)	3-8	200	4,000.00	LF	\$10.60	\$42,410.80

Job Hours: 40.00

Total Cost: \$42,411.00

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **F1001**State: **Colorado**Abbreviation: **None**Date: **1/15/2025**County: **Eagle**Filename: **M041-F1001**

12:01:19 PM

User: **ACY**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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 D10T - 10SU	93.31	\$282.41	\$125.64	16	\$6,528.80	\$2,010.24	\$4,000.00
CAT 16M	28.73	\$179.39	\$122.78	1	\$302.17	\$122.78	\$250.00
Cat 315D L 8'-6" Stick	19.05	\$244.29	\$59.44	1	\$303.73	\$59.44	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
CAT 966H	25.80	\$57.78	\$59.44	2	\$234.44	\$118.88	\$500.00
CAT 963D	22.29	\$83.68	\$59.44	1	\$143.12	\$59.44	\$250.00
CAT 450E	9.80	\$78.06	\$59.44	1	\$137.50	\$59.44	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	2	\$173.30	\$118.88	\$500.00
SCHRAMM T450WS	1.25	\$293.57	\$59.44	2	\$706.02	\$118.88	\$500.00

Subtotals: **\$8,933.06** **\$2,790.76** **\$6,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$133.22	2	\$266.44	\$266.44

Light Duty Pickup, 4x4, 3/4 T.	\$57.91	4	\$231.64	\$231.64
Light Duty Pickup, 4x4, 1 T. Crew	\$108.47	1	\$108.47	\$108.47
Flatbed Truck, 6x4, 45K GVW	\$110.06	2	\$220.12	\$220.12
Generic 12-18 cy, 6x4	\$115.19	4	\$460.76	\$460.76
Water Tanker, 3,500 Gal.	\$75.02	2	\$150.04	\$150.04

Subtotals: **\$1,437.47** **\$1,437.47**

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: EAGLE  
 Total one-way travel distance: 10.00 miles  
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$37,228.03

\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\* \$718.74

\*\* one round trip, no haul rig:

### **Transportation Cycle Time:**

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.50	0.50

### **JOB TIME AND COST**

Total job time: **3.00** Hours

Total job cost: **\$37,947**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Secondary MobilizationSite: Eagle-Gypsum MinePermit Action: TR12Permit/Job#: M1984041**PROJECT IDENTIFICATION**Task #: F1002State: ColoradoAbbreviation: NoneDate: 1/15/2025County: EagleFilename: M041-F100212:05:14 PMUser: ACYAgency 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:	\$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 315D L 8'-6" Stick	19.05	\$244.29	\$59.44	1	\$303.73	\$59.44	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	2	\$173.30	\$118.88	\$500.00

Subtotals: **\$477.03** **\$178.32** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$133.22	2	\$266.44	\$266.44
Light Duty Pickup, 4x4, 3/4 T.	\$57.91	2	\$115.82	\$115.82
Light Duty Pickup, 4x4, 1 T. Crew	\$108.47	1	\$108.47	\$108.47
Flatbed Truck, 6x4, 45K GVW	\$110.06	1	\$110.06	\$110.06

Subtotals: **\$600.79** **\$600.79**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: EAGLE  
 Total one-way travel distance: 10.00 miles  
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$2,781.74  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$300.40  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.25</u>	<u>0.25</u>
Return Time (Hours):	<u>0.25</u>	<u>0.25</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.50</u>	<u>0.50</u>

**JOB TIME AND COST**

Total job time: 3.00 Hours

Total job cost: \$3,082

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **Eagle-Gypsum Mine**Permit Action: **TR12**Permit/Job#: **M1984041****PROJECT IDENTIFICATION**Task #: **F1003**State: **Colorado**Abbreviation: **None**Date: **1/15/2025**County: **Eagle**Filename: **M041-F1003****12:06:06 PM**User: **ACY**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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 D10T - 10SU	93.31	\$282.41	\$125.64	2	\$816.10	\$251.28	\$4,000.00
Cat 324D L 9'-8" Stick	27.33	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
CAT 966H	25.80	\$57.78	\$59.44	1	\$117.22	\$59.44	\$500.00

Subtotals: **\$1,337.30** **\$433.50** **\$4,750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Hydroseeder with Tractor	\$133.22	1	\$133.22	\$133.22
Light Duty Pickup, 4x4, 3/4 T.	\$57.91	13	\$752.83	\$752.83
Light Duty Pickup, 4x4, 1 T. Crew	\$108.47	1	\$108.47	\$108.47
Generic 12-18 cy, 6x4	\$115.19	1	\$115.19	\$115.19
Water Tanker, 3,500 Gal.	\$75.02	1	\$75.02	\$75.02

Subtotals: **\$1,184.73** **\$1,184.73**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: EAGLE  
 Total one-way travel distance: 10.00 miles  
 Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$13,060.00

\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\* \$592.37

\*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.50	0.50

**JOB TIME AND COST**

Total job time: 3.00 Hours

Total job cost: \$13,652



SITE MAINTENANCE

Task description: Full Time Road Maintenance

Site: Eagle-Gypsum Mine Permit Action: TR12 Permit/Job#: M1984041

**PROJECT IDENTIFICATION**

Task #: F1004 State: Colorado Abbreviation: None  
Date: 1/15/2025 County: Eagle Filename: M041-F1004  
11:30:18 AM  
User: ACY

Agency or organization name: DRMS

**UNIT COSTS**

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Grader	1000.00	CAT 16M	1,000.00	EA	\$326.79	\$326,790.00
Water Truck	1000.00	Water Tanker, 3,500 Gal.	1,000.00	EA	\$75.02	\$75,020.00

Job Hours: 2,000.00

Total Cost: \$401,810.00