

## COST SUMMARY WORK

Task description: 2025-06-11 Update

Site: Schmalz Const Pit

Permit Action: 2025-06-11 Update

Permit/Job#: M1984069

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 6/11/2025

County: Gunnison

Filename: M069-000

User: DMC

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce Highwall Slope to 3H:1V	DOZER	1	11.35	\$2,379
02a	Push topsoil over disturbed area	DOZER	1	21.47	\$4,499
03a	Revegetate disturbed area	REVEGE	1	5.00	\$10,079
04a	Mobilize reclamation crew/equipment	MOBILIZE	1	2.45	\$1,767
<b><u>SUBTOTALS:</u></b>				<b>40.27</b>	<b>\$18,724</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 20.14  
Profit: 10.00

Total = \$378

Total = \$197

Total = \$1,596

Total = \$1,872

TOTAL O & P = \$4,043

CONTRACT AMOUNT (direct + O & P) = \$22,767

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$1,138

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$5,682

**TOTAL BOND AMOUNT (direct + indirect) = \$24,406**

**BULLDOZER WORK**Task description: **Reduce Highwall Slope to 3H:1V**Site: Schmalz Const Pit Permit Action: 2025-06-11 Update Permit/Job#: M1984069**PROJECT IDENTIFICATION**

Task #: 01A State: Colorado Abbreviation: None  
 Date: 6/11/2025 County: Gunnison Filename: 01a  
 User: DMC

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

Basic Machine: Cat D6T LGP  
 Horsepower: 200  
 Blade Type: Straight  
 Attachment: NA  
 Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$99.72</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$71.22</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</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: \$209.53  
 Total Fleet Cost/Hour: **\$209.53**

**MATERIAL QUANTITIES**

Initial Volume: 2,222  
 Swell factor: 1.115  
 Loose volume: **2,478 LCY**

Source of estimated volume: DRMS (inspection observations)  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 50 feet  
 Unadjusted hourly production: 444.6 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %  
 Average site altitude: 7,850 feet

Material weight: 2,100 lbs/LCYWeight description: Earth - Loam**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4908

Adjusted unit production: 218.21 LCY/hr

Adjusted fleet production: **218.21** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.960/LCY

Total job time: **11.35** Hours

Total job cost: **\$2,379**

**BULLDOZER WORK**Task description: **Push topsoil over disturbed area**Site: **Schmalz Const Pit** Permit Action: **2025-06-11 Update** Permit/Job#: **M1984069****PROJECT IDENTIFICATION**

Task #: **02A** State: **Colorado** Abbreviation: **None**  
 Date: **6/11/2025** County: **Gunnison** Filename: **02a**  
 User: **DMC**

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

Basic Machine: **Cat D6T LGP**  
 Horsepower: **200**  
 Blade Type: **Straight**  
 Attachment: **NA**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$99.72	NA
Operating Cost/Hour:	\$71.22	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$209.53**  
 Total Fleet Cost/Hour: **\$209.53**

**MATERIAL QUANTITIES**

Initial Volume: **3,227**  
 Swell factor: **1.215**  
 Loose volume: **3,921 LCY**

Source of estimated volume: **DRMS (inspection observations), 4 ac. @ 6" depth**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**

Average push distance: **150 feet**  
 Unadjusted hourly production: **212.5 LCY/hr**

Materials consistency description: **Loose stockpile 1.2**

Average push gradient: **0 %**  
 Average site altitude: **7,850 feet**

Material weight: **1,600 lbs/LCY**Weight description: **Top Soil****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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 182.60 LCY/hr

Adjusted fleet production: **182.6** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.147/LCY

Total job time: **21.47** Hours

Total job cost: **\$4,499**

**REVEGETATION WORK**Task description: Revegetate disturbed areaSite: Schmalz Const PitPermit Action: 2025-06-11 UpdatePermit/Job#: M1984069**PROJECT IDENTIFICATION**Task #: 03A  
Date: 6/11/2025  
User: DMCState: Colorado  
County: GunnisonAbbreviation: None  
Filename: 03aAgency 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
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
<b>Total Tilling Cost/Acre</b>	<b>\$441.21</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluegrass - Sherman	0.25	5.17	\$3.96
Orchardgrass - Paiute	0.50	6.20	\$2.29
Kentucky Bluegrass - Lato	0.25	12.34	\$0.92
Intermediate Wheatgrass - Oahe	1.00	2.13	\$4.65
Smooth Brome - Manchar	1.00	3.33	\$5.22
Timothy - Climax	0.40	11.48	\$1.66
<b>Totals Seed Mix</b>	<b>3.40</b>	<b>40.65</b>	<b>\$18.70</b>

**Application**

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$485.00
<b>Total Seed Application Cost/Acre</b>	<b>\$485.00</b>

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

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
<b>Total Mulch Materials Cost/Acre</b>				<b>\$985.56</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
<b>Total Mulch Application Cost/Acre</b>	<b>\$85.37</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 Cost /Acre: \$2,015.84  
 Estimated Failure Rate: 25% Cost /Acre\*: \$2,015.84  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$8,063.36**  
 Reseeding Job Cost: **\$2,015.84**  
 Total Job Cost: **\$10,079**  
 Job Hours: **5.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilize reclamation crew/equipment**Site: **Schmalz Const Pit**Permit Action: 2025-06-11 UpdatePermit/Job#: M1984069**PROJECT IDENTIFICATION**

Task #: 04A State: Colorado Abbreviation: None  
 Date: 6/11/2025 County: Gunnison Filename: 04a  
 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:**

<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 D6T LGP	26.87	\$99.72	\$122.78	1	\$222.50	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00

Subtotals: **\$322.96** **\$182.22** **\$500.00****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: 4.00 miles  
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost \* \$1,761.39  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$5.62  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.11	0.11
Return Time (Hours):	0.11	0.11
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.23	0.23

**JOB TIME AND COST**

Total job time: 2.46 Hours

Total job cost: \$1,767