

COST SUMMARY WORK

Task description: _____

Site: The Quarry L,L,C,

Permit Action: 2025-05-19 New Permit

Permit/Job#: M2025021

PROJECT IDENTIFICATION

Task #: 000
Date: 5/19/2025
User: DMC

State: Colorado
County: Gunnison

Abbreviation: None
Filename: M021-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reclamation Grading	DOZER	1	4.76	\$1,532
02a	Distribute topsoil	DOZER	1	2.51	\$809
03a	Revegetate affected area	REVEGE	1	8.00	\$13,943
04a	Mobilize Reclamation Crew and Equipment	MOBILIZE	1	3.42	\$1,488
<u>SUBTOTALS:</u>				18.69	\$17,772

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 0.00
Profit: 10.00

Total = \$359
Total = \$187
Total = \$0
Total = \$1,777

TOTAL O & P = \$2,323

CONTRACT AMOUNT (direct + O & P) = \$20,095

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = \$0
Total = \$0
Total = \$1,005

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$3,328

TOTAL BOND AMOUNT (direct + indirect) = \$21,100

BULLDOZER WORKTask description: **Reclamation Grading**

Site: **The Quarry L,L,C,** Permit Action: **2025-05-19 New Permit** Permit/Job#: **M2025021**

PROJECT IDENTIFICATION

Task #: **01A** State: **Colorado** Abbreviation: **None**
 Date: **5/19/2025** County: **Gunnison** Filename: **M021-01a**
 User: **DMC**

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

Basic Machine: **Cat D8T - 8SU**
 Horsepower: **310**
 Blade Type: **Semi-Universal**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	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: **\$321.62**
 Total Fleet Cost/Hour: **\$321.62**

MATERIAL QUANTITIES

Initial Volume: **2,083**
 Swell factor: **1.000**
 Loose volume: **2,083 LCY**

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

HOURLY PRODUCTION

Average push distance: **50 feet**
 Unadjusted hourly production: **1,400.0 LCY/hr**

Materials consistency description: **Compacted fill or embankment 0.9**

Average push gradient: **0 %**
 Average site altitude: **8,340 feet**

Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3124

Adjusted unit production: 437.36 LCY/hr



Adjusted fleet production: **437.36** LCY/hr

JOB TIME AND COST

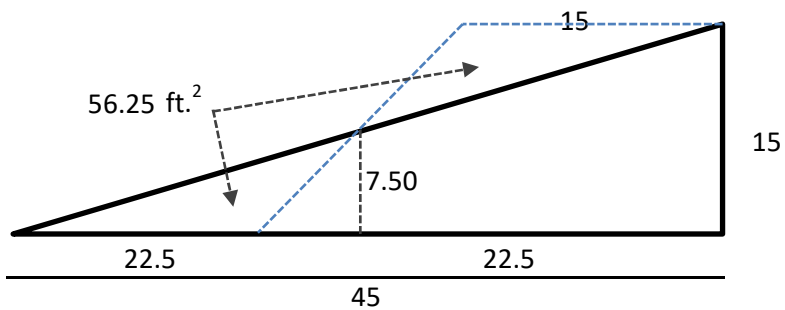
Fleet size: 1 Dozer(s)
 Unit cost: \$0.735/LCY

Total job time: **4.76** Hours
 Total job cost: **\$1,532**

Highwall reduction - cut and fill

Highwall Height (ft.)	15.0
Length of Highwall (lft.)	1000
 Initial Slope	1.0 H:1V
 Desired Slope	3 H:1V
Volume of material to be moved (ft. ³)	56,250
Volume of material to be moved (yd. ³)	2,083

All dimensions measured in feet
Drawing not to scale



BULLDOZER WORKTask description: **Distribute topsoil**

Site: **The Quarry L,L,C,** Permit Action: **2025-05-19 New Permit** Permit/Job#: **M2025021**

PROJECT IDENTIFICATION

Task #: **02A** State: **Colorado** Abbreviation: **None**
 Date: **5/19/2025** County: **Gunnison** Filename: **M021-02a**
 User: **DMC**

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

Basic Machine: **Cat D8T - 8SU**
 Horsepower: **310**
 Blade Type: **Semi-Universal**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$173.32	NA
Operating Cost/Hour:	\$109.71	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: **\$321.62**
 Total Fleet Cost/Hour: **\$321.62**

MATERIAL QUANTITIES

Initial Volume: **3,025**
 Swell factor: **1.000**
 Loose volume: **3,025 LCY**

Source of estimated volume: **7.52 ac x 3"**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **50 feet**
 Unadjusted hourly production: **1,400.0 LCY/hr**

Materials consistency description: **Loose stockpile 1.2**

Average push gradient: **0 %**
 Average site altitude: **8,340 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: 1,203.02 LCY/hr

Adjusted fleet production: **1203.02** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.267/LCY

Total job time: **2.51** Hours

Total job cost: **\$809**

REVEGETATION WORKTask description: Revegetate affected areaSite: The Quarry L,L,C,Permit Action: 2025-05-19 New PermitPermit/Job#: M2025021**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 5/19/2025County: GunnisonFilename: M021-03aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sandberg Bluegrass - VNS	1.00	21.24	\$14.45
Sheep Fescue - Bighorn	1.00	15.61	\$4.96
Western Wheatgrass - Native	4.00	10.10	\$36.02
Totals Seed Mix	6.00	46.95	\$55.43

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 7.5 Cost /Acre: \$1,859.06
 Estimated Failure Rate: 25% Cost /Acre*: \$0.00
 *Selected Replanting Work Items: NONE

Initial Job Cost: **\$13,942.95**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$13,943**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize Reclamation Crew and Equipment**

Site: **The Quarry L,L,C,** Permit Action: **2025-05-19 New Permit** Permit/Job#: **M2025021**

PROJECT IDENTIFICATION

Task #: **04A** State: **Colorado** Abbreviation: **None**
 Date: **5/19/2025** County: **Gunnison** Filename: **M021-04a**
 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Subtotals:					\$296.10	\$122.78	\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$79.16	1	\$79.16	\$79.16
Power Mulcher (Bowie LD-90)	\$58.47	1	\$58.47	\$58.47
Subtotals:			\$137.63	\$137.63

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GUNNISON</u>	
Total one-way travel distance:	<u>16.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,390.07</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$97.87</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.36</u>	<u>0.36</u>
Return Time (Hours):	<u>0.36</u>	<u>0.36</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.71</u>	<u>0.71</u>

JOB TIME AND COST

Total job time:	<u>3.42</u>	Hours
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Total job cost:	<u>\$1,488</u>
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