



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

October 30, 2025

Bjorn Meyer  
Cripple Creek & Victor Gold Mining Company  
P. O. Box 191  
Victor, CO 80860

**Re: Cresson Project - File No. M-1980-244  
Cripple Creek & Victor Gold Mining Company  
Technical Revision (TR-151)  
Grassy Valley Clay Borrow Source**

Dear Bjorn Meyer:

On October 30, 2025 the Division of Reclamation, Mining and Safety concluded its review of the Technical Revision application submitted to the Division on September 8, 2025, addressing the following:

Grassy Valley Clay Borrow Source with Grassy Valley Access Road Extension

The decision reached by the Division is: **approve**.

The terms of Technical Revision No. 151 approved by the Division are hereby incorporated into Permit No. M-1980-244. All other conditions and requirements of Permit No. M-1980-244 remain in full force and effect.

The revised liability amount exceeds the financial warranty currently held (see below), please submit additional bond or a rider to your existing bond that equals or exceeds the Revised Liability.

Bond Held:	\$333,471,401.00
Prior Liability:	\$335,951,749.00
Change in Liability:	\$106,230.00
Revised Liability:	\$336,057,979.00
Prior Permit Acreage:	6,017.53
Change in Permit Acreage:	0.00
Revised Permit Acreage:	6,017.53
Prior Affected Acreage:	6,017.53

Change in Affected Acreage:	0.00
Revised Affected Acreage:	6,017.53



Please note, that the decision to approve this revision will not be issued until the Financial Warranty held by the Division meets or exceeds the required amount of \$336,057,979.00. Work may not begin on any of the proposed changes in this revision until the decision is issued. If you have any questions, please contact me by telephone at (303) 919-2997, or by email at [Lucas.west@state.co.us](mailto:Lucas.west@state.co.us).

Sincerely,



Lucas J. West  
Environmental Protection Specialist

cc: Elliott Russell, DRMS  
Zack Trujilio, DRMS

cc: Jorge Ricaurte, CC&V

M-GR-04

## COST SUMMARY WORK

Task description: Cost Summary of TR151 Reclamation

Site: Cresson Project

Permit Action: TR151

Permit/Job#: M1980244

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 10/28/2025

County: Teller

Filename: M244-000

User: ERR

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
A0713	TR151 Grassy Valley Clay Borrow Area - Topsoil - Transport	TRUCK 1	1	10.98	\$17,240
A0714	TR151 Grassy Valley Clay Borrow Area - Topsoil - Ripping	RIPPER	1	12.83	\$2,968
A0715	TR151 Grassy Va Clay Borrow Area - Topsoil - Dozer Spreading	DOZER	1	19.70	\$4,257
A0716	TR151 Grassy Valley Access Road - Topsoil - Transport	TRUCK 1	1	6.72	\$10,551
A0717	TR151 Grassy Valley Access Road - Topsoil - Ripping	RIPPER	1	8.34	\$1,930
A0718	TR151 Grassy Valley Access Road - Topsoil - Dozer Spreading	DOZER	1	12.74	\$2,753
B0022	TR151 Grassy Valley Clay Borrow Area - Revegetation	REVEGE	1	10.00	\$22,352
B0023	TR151 Grassy Valley Access Road - Revegetation	REVEGE	1	6.50	\$14,529
D3001	Culvert Demo	DEMOLISH	1	5.00	\$1,689
<b><u>SUBTOTALS:</u></b>				<b>92.81</b>	<b>\$78,269</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 46.40  
Profit: 10.00

Total = \$1,581

Total = \$822

Total = \$3,486

Total = \$7,827

TOTAL O & P = \$13,716

CONTRACT AMOUNT (direct + O & P) = \$91,985

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 7.39

Total = \$6,798

Reclamation management and/or administration: 5.00

\$4,599

CONTINGENCY: 3.00

Total = \$2,348

TOTAL INDIRECT COST = \$27,961

**TOTAL BOND AMOUNT (direct + indirect) = \$106,230**

**TRUCK/LOADER TEAM WORK**Task description: **TR151 Grassy Valley Clay Borrow Area - Topsoil - Transport**Site: **Cresson Project**Permit Action: **TR151**Permit/Job#: **M1980244****PROJECT IDENTIFICATION**Task #: **A0713**State: **Colorado**Abbreviation: **None**Date: **10/28/2025**County: **Teller**Filename: **M244-A0713**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

	Equipment Description
Truck Loader Team -Truck:	Cat 740
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 7,000 Gal.

**Cost Breakdown:**

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	NA	25	25
Ownership cost/hour:	\$115.40	\$140.90	\$179.60	NA	\$78.02	\$75.70
Operating cost/hour:	\$82.18	\$102.58	\$110.45	NA	\$17.13	\$19.69
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Operator cost/hour:	\$24.86	\$59.52	\$38.02	NA	\$60.00	\$20.81
Unit Subtotals:	\$222.44	\$303.00	\$328.07	NA	\$155.15	\$116.19
Number of Units:	3	1	1	0	1	1
Group Subtotals:	Work: \$970.32		Support: \$328.07		Maint: \$271.34	

Total work team cost/hour: **\$1,569.73****MATERIAL QUANTITIES**Initial volume: **6,453**

CCY

Swell factor: **1.215**Loose volume: **7,840**

LCY

Source of estimated volume: **TR151**Source of estimated swell factor: **Cat Handbook**Material Purchase Cost: **\$0.00**Total Cost: **\$0.00****HOURLY PRODUCTION****Truck Capacity:**

Truck Payload (weight) Basis:

Material weight: **1,600**

Pounds/LCY

Description: **Top Soil**Rated Payload: **87,000**

Pounds

Payload Capacity: 54.38 LCY

**Truck Bed (volume) Basis:**

Struck Volume: 24.20 LCY  
 Heaped Volume: 31.40 LCY  
 Average Volume: 27.80 LCY  
 Adjusted Volume: 31.40 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

**Loading Tool Capacity**

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)  
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100  
 Adjusted Capacity: 10.120 LCY

**Job Condition Corrections:**

Site Altitude (ft.): 9500 feet

	<b>Truck</b>	<b>Loader</b>	<b>Source</b>
Altitude Adj:	0.820	0.950	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	<b>0.681</b>	<b>0.789</b>	

**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): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.060	minutes
	Adjusted Loader Cycle Time:	<b>0.515</b>	minutes
	Net Load Time per Truck:	<b>1.130</b>	minutes

**Truck Cycle Time:**

Truck Exchange Time: 0.60 Minutes Adjusted for site altitude: 0.732 Minutes  
 Truck Load Time: 1.130 Minutes Adjusted for site altitude: 1.189 Minutes  
 Truck Maneuver and Dump Time: 1.00 Minutes Adjusted for site altitude: 1.220 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	3925.00	-2.90	3.00	0.10	3005	1.565

Haul Time: **1.565** minutes

## Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3925.00	2.90	3.00	5.90	2742	1.648

Return Time: **1.648** minutesTotal Truck Cycle Time: **6.354** minutes

## Loading Tool unit

Production 948.17 LCY/Hour      Adjusted for job efficiency: 786.98 LCY/Hour  
Truck Unit Production 286.70 LCY/Hour      Adjusted for job efficiency: 237.96 LCY/Hour

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

Adjusted hourly truck team production: 713.88 LCY/Hour  
Adjusted single truck/loader team production: 713.88 LCY/Hour  
Adjusted multiple truck/loader team production: **713.88** LCY/Hour

**JOB TIME AND COST**Fleet size: 1 Team(s)      Total job time: **10.98** HoursUnit cost: \$2.199 /LCY      Total job cost: **\$17,240**



## BULLDOZER RIPPING WORK

Task description: TR151 Grassy Valley Clay Borrow Area - Topsoil - Ripping

Site: Cresson Project

Permit Action: TR151

Permit/Job#: M1980244

### PROJECT IDENTIFICATION

Task #: A0714

State: Colorado

Abbreviation: None

Date: 10/28/2025

County: Teller

Filename: M244-A0714

User: ERR

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP

Horsepower: 240

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$97.39	NA
Operating Cost/Hour:	\$80.69	100
Ripper Ownership Cost/Hour:	\$9.58	NA
Ripper Operating Cost/Hour:	\$5.66	100
Operator Cost/Hour:	\$38.02	NA
Total Unit Cost/Hour:	\$231.34	
Total Fleet Cost/Hour:	<b>\$231.34</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 8.00 acres

Rip Depth (ft): 2.50

Volume: 32,267

BCY or CCY

Source of estimated quantity: TR151

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.45</u>	feet/pass
Average Ripping Width:	<u>6.50</u>	feet/pass
Average Ripping Length:	<u>450.00</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>0.751</u>	acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.751 Acres/hr

Site Altitude: 9,500 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.62 Acres/hr

Adjusted Hourly Fleet Production: 0.62 Acres/hr

### JOB TIME AND COST

Fleet size: 1

Grader(s)

Total job time: 12.83 Hours

Unit cost: \$371.059

Per acre

Total job cost: \$2,968



**BULLDOZER WORK**Task description: **TR151 Grassy Va Clay Borrow Area - Topsoil - Dozer Spreading**Site: **Cresson Project**Permit Action: **TR151**Permit/Job#: **M1980244****PROJECT IDENTIFICATION**Task #: **A0715**State: **Colorado**Abbreviation: **None**Date: **10/28/2025**County: **Teller**Filename: **M244-A0715**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS Series II LGP**Horsepower: **240**Blade Type: **Straight**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$97.39	NA
Operating Cost/Hour:	\$80.69	100
Ripper own.		
Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	25
Operator Cost/Hour:	\$38.02	NA

Total unit Cost/Hour: **\$216.10**Total Fleet Cost/Hour: **\$216.10****MATERIAL QUANTITIES**Initial Volume: **6,453**Swell factor: **1.215**Loose volume: **7,840 LCY**Source of estimated volume: **TR151**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **200 feet**Unadjusted hourly production: **289.3 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **-30 %**Average site altitude: **9,500 feet**Material weight: **1,600 lbs/LCY**Weight description: **Top Soil****Job Condition Correction Factor**Operator Skill: **0.750****Source  
(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:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.3758

Adjusted unit  
production: 398.02 LCY/hr

Adjusted fleet  
production: **398.02** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.543/LCY

Total job time: **19.70** Hours

Total job cost: **\$4,257**

**TRUCK/LOADER TEAM WORK**Task description: **TR151 Grassy Valley Access Road - Topsoil - Transport**Site: **Cresson Project**Permit Action: **TR151**Permit/Job#: **M1980244****PROJECT IDENTIFICATION**Task #: **A0716**State: **Colorado**Abbreviation: **None**Date: **10/28/2025**County: **Teller**Filename: **M244-A0716**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

	Equipment Description
Truck Loader Team -Truck:	Cat 740
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 7,000 Gal.

**Cost Breakdown:**

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	100	NA	25	25
Ownership cost/hour:	\$115.40	\$140.90	\$179.60	NA	\$78.02	\$75.70
Operating cost/hour:	\$82.18	\$102.58	\$110.45	NA	\$17.13	\$19.69
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	\$0.00	\$0.00
Operator cost/hour:	\$24.86	\$59.52	\$38.02	NA	\$60.00	\$20.81
Unit Subtotals:	\$222.44	\$303.00	\$328.07	NA	\$155.15	\$116.19
Number of Units:	3	1	1	0	1	1
Group Subtotals:	Work: \$970.32		Support: \$328.07		Maint: \$271.34	

Total work team cost/hour: **\$1,569.73****MATERIAL QUANTITIES**Initial volume: **4,174**

CCY

Swell factor: **1.215**Loose volume: **5,071**

LCY

Source of estimated volume: **TR151**Source of estimated swell factor: **Cat Handbook**Material Purchase Cost: **\$0.00**Total Cost: **\$0.00****HOURLY PRODUCTION****Truck Capacity:**

Truck Payload (weight) Basis:

Material weight: **1,600**

Pounds/LCY

Description: **Top Soil**Rated Payload: **87,000**

Pounds

Payload Capacity: 54.38 LCY

**Truck Bed (volume) Basis:**

Struck Volume: 24.20 LCY  
 Heaped Volume: 31.40 LCY  
 Average Volume: 27.80 LCY  
 Adjusted Volume: 31.40 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

**Loading Tool Capacity**

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)  
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100  
 Adjusted Capacity: 10.120 LCY

**Job Condition Corrections:**

Site Altitude (ft.): 9500 feet

	Truck	Loader	Source
Altitude Adj:	0.820	0.950	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	<b>0.681</b>	<b>0.789</b>	

**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): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	-0.060	minutes
	Adjusted Loader Cycle Time:	<b>0.515</b>	minutes
	Net Load Time per Truck:	<b>1.130</b>	minutes

**Truck Cycle Time:**

Truck Exchange Time: 0.60 Minutes Adjusted for site altitude: 0.732 Minutes  
 Truck Load Time: 1.130 Minutes Adjusted for site altitude: 1.189 Minutes  
 Truck Maneuver and Dump Time: 1.00 Minutes Adjusted for site altitude: 1.220 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	3475.00	-2.20	3.00	0.80	3005	1.465

Haul Time: **1.465** minutes

## Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3475.00	2.20	3.00	5.20	3005	1.406

Return Time: **1.406** minutesTotal Truck Cycle Time: **6.012** minutes

## Loading Tool unit

Production 948.17 LCY/Hour      Adjusted for job efficiency: 786.98 LCY/Hour  
Truck Unit Production 303.01 LCY/Hour      Adjusted for job efficiency: 251.50 LCY/Hour

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

Adjusted hourly truck team production: 754.49 LCY/Hour  
Adjusted single truck/loader team production: 754.49 LCY/Hour  
Adjusted multiple truck/loader team production: **754.49** LCY/Hour

**JOB TIME AND COST**Fleet size: 1 Team(s)      Total job time: **6.72** HoursUnit cost: \$2.081 /LCY      Total job cost: **\$10,551**



## BULLDOZER RIPPING WORK

Task description: TR151 Grassy Valley Access Road - Topsoil - Ripping

Site: Cresson Project

Permit Action: TR151

Permit/Job#: M1980244

### PROJECT IDENTIFICATION

Task #: A0717

State: Colorado

Abbreviation: None

Date: 10/28/2025

County: Teller

Filename: M244-A0717

User: ERR

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS Series II LGP

Horsepower: 240

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$97.39	NA
Operating Cost/Hour:	\$80.69	100
Ripper Ownership Cost/Hour:	\$9.58	NA
Ripper Operating Cost/Hour:	\$5.66	100
Operator Cost/Hour:	\$38.02	NA
Total Unit Cost/Hour:	\$231.34	
Total Fleet Cost/Hour:	<b>\$231.34</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY NA

Area: 5.20 acres

Rip Depth (ft): 2.50

Volume: 20,973

BCY or CCY

Source of estimated quantity: TR151

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.45</u>	feet/pass
Average Ripping Width:	<u>6.50</u>	feet/pass
Average Ripping Length:	<u>450.00</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>0.751</u>	acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.751 Acres/hr

Site Altitude: 9,500 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.62 Acres/hr

Adjusted Hourly Fleet Production: 0.62 Acres/hr

### JOB TIME AND COST

Fleet size: 1

Grader(s)

Total job time: 8.34 Hours

Unit cost: \$371.059

Per acre

Total job cost: \$1,930



**BULLDOZER WORK**Task description: **TR151 Grassy Valley Access Road - Topsoil - Dozer Spreading**Site: **Cresson Project**Permit Action: **TR151**Permit/Job#: **M1980244****PROJECT IDENTIFICATION**Task #: **A0718**State: **Colorado**Abbreviation: **None**Date: **10/28/2025**County: **Teller**Filename: **M244-A0718**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS Series II LGP**Horsepower: **240**Blade Type: **Straight**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$97.39	NA
Operating Cost/Hour:	\$80.69	100
Ripper own.		
Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	25
Operator Cost/Hour:	\$38.02	NA

Total unit Cost/Hour: **\$216.10**Total Fleet Cost/Hour: **\$216.10****MATERIAL QUANTITIES**Initial Volume: **4,174**Swell factor: **1.215**Loose volume: **5,071 LCY**Source of estimated volume: **TR151**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **200 feet**Unadjusted hourly production: **289.3 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **-30 %**Average site altitude: **9,500 feet**Material weight: **1,600 lbs/LCY**Weight description: **Top Soil****Job Condition Correction Factor**Operator Skill: **0.750**Source  
(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:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.3758

Adjusted unit  
production: 398.02 LCY/hr  
Adjusted fleet  
production: **398.02** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
Unit cost: \$0.543/LCY

Total job time: **12.74** Hours  
Total job cost: **\$2,753**

**REVEGETATION WORK**Task description: **TR151 Grassy Valley Clay Borrow Area - Revegetation**Site: **Cresson Project**Permit Action: TR151Permit/Job#: M1980244**PROJECT IDENTIFICATION**Task #: B0022State: ColoradoAbbreviation: NoneDate: 10/28/2025County: TellerFilename: M244-B0022User: ERRAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
0-10-20, 3-9-18	400.00	pound	\$0.72	\$286.84
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$286.84</b>

**Application**

Description	Cost /Acre
NA-fertilizer application incl. with hydroseeding	\$0.00
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
<b>Total Tilling Cost/Acre</b>	<b>\$114.13</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.48	4.79	\$26.20
Mountain Brome - Bromar	4.00	6.43	\$24.64
Sandberg Bluegrass - VNS	0.50	10.62	\$7.40
Rye, Winter - VNS	9.63	3.98	\$6.24
Sheep Fescue - Bighorn	1.44	22.48	\$7.32
Slender Wheatgrass - Native	2.88	10.51	\$20.83
Milk Vetch, Cicer - Monarch	0.96	3.20	\$9.39
Mahogany, Mountain	0.13	0.18	\$13.44
Thickspike Wheatgrass - Critana	3.38	11.95	\$28.20
Rose, Wood's	0.31	0.00	\$16.94
Flax, Lewis Blue	0.25	1.66	\$10.83

Yarrow, Western	0.06	3.65	\$2.96
<b>Totals Seed Mix</b>	25.02	79.43	<b>\$174.39</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Broadcast seeding [DMG]	\$279.08
<b>Total Seed Application Cost/Acre</b>	<b>\$279.08</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>\$0.00</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydromulching (MEANS 32 92 19.13 1100)	\$1,403.60
<b>Total Mulch Application Cost/Acre</b>	<b>\$1,403.60</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 Cost /Acre: \$2,258.04  
 Estimated Failure Rate: 25% Cost /Acre\*: \$2,143.91  
 \*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING

Initial Job Cost: **\$18,064.32**  
 Reseeding Job Cost: **\$4,287.82**  
 Total Job Cost: **\$22,352**  
 Job Hours: **10.00**

**REVEGETATION WORK**Task description: **TR151 Grassy Valley Access Road - Revegetation**Site: **Cresson Project**Permit Action: TR151Permit/Job#: M1980244**PROJECT IDENTIFICATION**Task #: B0023State: ColoradoAbbreviation: NoneDate: 10/28/2025County: TellerFilename: M244-B0023User: ERRAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
0-10-20, 3-9-18	400.00	pound	\$0.72	\$286.84
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$286.84</b>

**Application**

Description	Cost /Acre
NA-fertilizer application incl. with hydroseeding	\$0.00
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.13
<b>Total Tilling Cost/Acre</b>	<b>\$114.13</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.48	4.79	\$26.20
Mountain Brome - Bromar	4.00	6.43	\$24.64
Sandberg Bluegrass - VNS	0.50	10.62	\$7.40
Rye, Winter - VNS	9.63	3.98	\$6.24
Sheep Fescue - Bighorn	1.44	22.48	\$7.32
Slender Wheatgrass - Native	2.88	10.51	\$20.83
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Rose, Wood's	0.31	0.00	\$16.94
Flax, Lewis Blue	0.25	1.66	\$10.83

Yarrow, Western	0.06	3.65	\$2.96
<b>Totals Seed Mix</b>	25.02	79.43	<b>\$174.39</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Broadcast seeding [DMG]	\$279.08
<b>Total Seed Application Cost/Acre</b>	<b>\$279.08</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>\$0.00</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hydromulching (MEANS 32 92 19.13 1100)	\$1,403.60
<b>Total Mulch Application Cost/Acre</b>	<b>\$1,403.60</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: 5.2 Cost /Acre: \$2,258.04  
 Estimated Failure Rate: 25% Cost /Acre\*: \$2,143.91  
 \*Selected Replanting Work Items: FERTILIZING,SEEDING,MULCHING  
 Initial Job Cost: \$11,741.81  
 Reseeding Job Cost: \$2,787.08  
 Total Job Cost: \$14,529  
 Job Hours: 6.50



## DEMOLITION WORK

Task description: Culvert Demo

Site: Cresson Project

Permit Action: TR151

Permit/Job#: M1980244

### PROJECT IDENTIFICATION

Task #: D3001

State: Colorado

Abbreviation: None

Date: 10/28/2025

County: Teller

Filename: M244-D3001

User: ERR

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 87.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
(10) Grassy Valley Access Road Culverts TR151	40 ft	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	400.00	LF	\$4.80	\$1,921.88

Job Hours: 5.00

Subtotal  
(unadjusted): \$1,921.88

Total Cost  
(adjusted for location): \$1,689.33