



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

March 6, 2025

John Gilleland
C & J Gravel Products, Inc.
27661 U.S. Hwy 160 E
Durango, CO 81301

**Re: Montoya Pit - File No. M-1980-146
C & J Gravel Products, Inc.
Surety Increase (SI-1)
Increase FW to \$722,830**

Dear John Gilleland:

On March 6, 2025 the Division of Reclamation, Mining and Safety increased the Financial Warranty for this permit to \$722,830.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of **\$301,472.00** over the current amount held (\$421,358.00).

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

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

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by May 5, 2025.

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

Sincerely,

Dustin M. Czaplá
Environmental Protection Specialist



COST SUMMARY WORK

Task description: 2025-01-15 Update

Site: Montoya Pit

Permit Action: 2024-06-26

Permit/Job#: M1980146

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 6/26/2024

County: La Plata

Filename: M146-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Northwest corner shaping	DOZER	1	258.84	\$127,586
02a	Southwest corner shaping	DOZER	1	37.99	\$18,725
03a	Northwest topsoil placement	TRUCK1	1	8.86	\$6,933
03b	Northwest topsoil shaping	DOZER	1	3.85	\$1,898
04a	Southwest topsoil placement	TRUCK1	1	1.81	\$1,415
04b	Southwest topsoil shaping	DOZER	1	0.79	\$387
05a	Rip pit floor	RIPPER	1	31.33	\$16,596
06a	Pit floor topsoil placement	TRUCK1	1	31.58	\$24,705
06b	Pit floor topsoil shaping	DOZER	1	13.72	\$6,762
07a	Seed disturbed areas	REVEGE	1	35.00	\$85,440
08a	Southwest slope shaping on southern boundary	DOZER	1	32.00	\$15,771
09a	Shape dirt slopes of old southern mining hole	DOZER	1	232.62	\$114,660
10a	3:1 dirt slope on pool table east of stationary crusher	DOZER	1	8.91	\$4,391
11a	Fill in the remainder of the northern hole	DOZER	1	19.59	\$9,655
12a	Rip pit floor BLM	RIPPER	1	44.91	\$23,791
13a	Pit floor topsoil placement BLM	TRUCK1	1	45.27	\$35,415
13b	Pit floor topsoil shaping BLM	DOZER	1	19.67	\$9,694
14a	Seed disturbed areas BLM	REVEGE	1	36.00	\$86,838
15a	Mobilization	MOBILIZE	1	4.26	\$6,547
<u>SUBTOTALS:</u>				867	\$597,209

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$12,064

Performance bond: 1.05

Total = \$6,271

Job superintendent: 159.82

Total = \$12,669

Profit: 10.00

Total = \$59,721

TOTAL O & P = \$90,724

CONTRACT AMOUNT (direct + O & P) = \$687,933

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

\$34,397

CONTINGENCY: 0.00Total = \$0

TOTAL INDIRECT COST = \$125,621

TOTAL BOND AMOUNT (direct + indirect) = \$722,830

BULLDOZER WORKTask description: Northwest corner shapingSite: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146**PROJECT IDENTIFICATION**

Task #:	<u>01A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>6/26/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M146-01a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D10T - 10SU</u>
Horsepower:	<u>574</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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:	<u>\$492.91</u>
Total Fleet Cost/Hour:	<u>\$492.91</u>

MATERIAL QUANTITIES

Initial Volume:	<u>79,200</u>
Swell factor:	<u>1.250</u>
Loose volume:	<u>99,000 LCY</u>

Source of estimated volume:	<u>7.05 ac</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>200 feet</u>
Unadjusted hourly production:	<u>946.0 LCY/hr</u>

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,750 feet</u>

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

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill:	<u>0.750</u>
Material consistency:	<u>0.900</u>
Dozing method:	<u>1.000</u>
Visibility:	<u>1.000</u>

	<u>(AVG.)</u>
	<u>(CAT HB))</u>
	<u>(GEN.)</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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 382.47 LCY/hr

Adjusted fleet production: **382.47** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.289/LCY

Total job time: **258.84** Hours

Total job cost: **\$127,586**

BULLDOZER WORKTask description: Southwest corner shapingSite: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146**PROJECT IDENTIFICATION**

Task #: 02A State: Colorado Abbreviation: None
 Date: 6/26/2024 County: La Plata Filename: M146-02a
 User: DMC

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

Basic Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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: \$492.91
 Total Fleet Cost/Hour: **\$492.91**

MATERIAL QUANTITIES

Initial Volume: 21,120
 Swell factor: 1.250
 Loose volume: **26,400 LCY**

Source of estimated volume: 1.44 ac
 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: Compacted fill or embankment 0.9

Average push gradient: 0 %
 Average site altitude: 6,750 feet

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

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill: <u>0.750</u>	<u>(AVG.)</u>
Material consistency: <u>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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 694.95 LCY/hr

Adjusted fleet production: **694.95** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.709/LCY

Total job time: **37.99** Hours

Total job cost: **\$18,725**

TRUCK/LOADER TEAM WORKTask description: Northwest topsoil placementSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-03aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 772
-Loader:	CAT 980H
Support Equipment -Load Area:	CAT 980H
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

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	NA	NA
Ownership cost/hour:	\$116.97	\$69.00	\$69.00	NA	NA	NA
Operating cost/hour:	\$82.54	\$60.57	\$60.57	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Operator cost/hour:	\$25.24	\$36.85	\$36.85	NA	NA	NA
Unit Subtotals:	\$224.75	\$166.42	\$166.42	NA	NA	NA
Number of Units:	2	1	1	0	0	0
Group Subtotals:	Work: \$615.92		Support: \$166.42		Maint: \$0.00	

Total work team cost/hour: \$782.34**MATERIAL QUANTITIES**Initial volume: 5,687

CCY

Swell factor: 1.000Loose volume: 5,687

LCY

Source of estimated volume: 7.05 ac x 6"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: 92,900

Pounds

Payload Capacity: 58.06

LCY

Truck Bed (volume) Basis:

Struck Volume:	26.40	LCY
Heaped Volume:	36.00	LCY
Average Volume:	31.20	LCY
Adjusted Volume:	36.00	LCY

Final Truck Volume Based on Number of Loader Passes: **29.25** LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - uniform aggregates to 1/8" (95-100%) 0.975
Adjusted Capacity:	7.313	LCY

Job Condition Corrections:

Site Altitude (ft.): 6750 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: 4 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): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 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:		0.490	minutes
Net Load Time per Truck:		1.570	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	1.570	Minutes	Adjusted for site altitude:	1.570	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	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	500.00	0.00	3.00	3.00	2626	0.547

Haul Time: **0.547** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	3.00	3.00	3087	0.305

Return Time: **0.305** minutesTotal Truck Cycle Time: **4.222** minutes

Loading Tool unit
 Production 773.13 LCY/Hour Adjusted for job efficiency: 641.70 LCY/Hour
 Truck Unit Production
415.68 LCY/Hour Adjusted for job efficiency: 345.01 LCY/Hour
 Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 690.03 LCY/Hour
 Adjusted single truck/loader team production: 641.70 LCY/Hour
 Adjusted multiple truck/loader team production: **641.70** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **8.86** HoursUnit cost: \$1.219 /LCY Total job cost: **\$6,933**

BULLDOZER WORKTask description: Northwest topsoil shapingSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-03bUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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: \$492.91Total Fleet Cost/Hour: **\$492.91****MATERIAL QUANTITIES**Initial Volume: 5,687Swell factor: 1.000Loose volume: **5,687** LCYSource of estimated volume: 7.05 ac x 6"Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,718.9 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,750 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(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: 1,477.05 LCY/hr

Adjusted fleet production: **1477.05** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.334/LCY

Total job time: **3.85** Hours

Total job cost: **\$1,898**

TRUCK/LOADER TEAM WORKTask description: Southwest topsoil placementSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146PROJECT IDENTIFICATIONTask #: 04AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-04aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 772
-Loader:	CAT 980H
Support Equipment -Load Area:	CAT 980H
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

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	NA	NA
Ownership cost/hour:	\$116.97	\$69.00	\$69.00	NA	NA	NA
Operating cost/hour:	\$82.54	\$60.57	\$60.57	NA	NA	NA
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Operator cost/hour:	\$25.24	\$36.85	\$36.85	NA	NA	NA
Unit Subtotals:	\$224.75	\$166.42	\$166.42	NA	NA	NA
Number of Units:	2	1	1	0	0	0
Group Subtotals:	Work: \$615.92		Support: \$166.42		Maint: \$0.00	

Total work team cost/hour: \$782.34MATERIAL QUANTITIESInitial volume: 1,161

CCY

Swell factor: 1.000Loose volume: 1,161

LCY

Source of estimated volume: 1.44 ac x 6"Source of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00HOURLY PRODUCTIONTruck Capacity:Truck Payload (weight) Basis:Material weight: 1,600

Pounds/LCY

Description: Top SoilRated Payload: 92,900

Pounds

Payload Capacity: 58.06

LCY

Truck Bed (volume) Basis:

Struck Volume:	26.40	LCY
Heaped Volume:	36.00	LCY
Average Volume:	31.20	LCY
Adjusted Volume:	36.00	LCY

Final Truck Volume Based on Number of Loader Passes: 29.25 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - uniform aggregates to 1/8" (95-100%) 0.975
Adjusted Capacity:	7.313	LCY

Job Condition Corrections:

Site Altitude (ft.): 6750 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: 4 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): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 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:		0.490	minutes
Net Load Time per Truck:		1.570	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	1.570	Minutes	Adjusted for site altitude:	1.570	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	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	500.00	0.00	3.00	3.00	2626	0.547

Haul Time: **0.547** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	3.00	3.00	3087	0.305

Return Time: **0.305** minutesTotal Truck Cycle Time: **4.222** minutes

Loading Tool unit
 Production 773.13 LCY/Hour Adjusted for job efficiency: 641.70 LCY/Hour
 Truck Unit Production
415.68 LCY/Hour Adjusted for job efficiency: 345.01 LCY/Hour
 Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 690.03 LCY/Hour
 Adjusted single truck/loader team production: 641.70 LCY/Hour
 Adjusted multiple truck/loader team production: **641.70** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **1.81** HoursUnit cost: \$1.219 /LCY Total job cost: **\$1,415**

BULLDOZER WORKTask description: Southwest topsoil shapingSite: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146**PROJECT IDENTIFICATION**

Task #: 04B State: Colorado Abbreviation: None
 Date: 6/26/2024 County: La Plata Filename: M146-04b
 User: DMC

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

Basic Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: NA
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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: \$492.91
 Total Fleet Cost/Hour: **\$492.91**

MATERIAL QUANTITIES

Initial Volume: 1,161
 Swell factor: 1.000
 Loose volume: **1,161** LCY

Source of estimated volume: 1.44 ac x 6"
 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: Loose stockpile 1.2

Average push gradient: 0 %
 Average site altitude: 6,750 feet

Material weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(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: 1,477.05 LCY/hr

Adjusted fleet production: **1477.05** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.334/LCY

Total job time: **0.79** Hours

Total job cost: **\$387**

BULLDOZER RIPPING WORK

Task description: Rip pit floor

Site: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
Date: 6/26/2024 County: La Plata Filename: M146-05a
User: DMC

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: 25.12 acres Rip Depth (ft): 12.00 Volume: 486,323 BCY or CCY

Source of estimated quantity: Operator

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.87 feet/pass
Average Ripping Width: 8.67 feet/pass
Average Ripping Length: 250.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.966 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.966 Acres/hr
Site Altitude: 6,750 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.80 Acres/hr
Adjusted Hourly Fleet Production: 0.80 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 31.33 Hours

Unit cost: \$660.667 Per acre Total job cost: \$16,596

TRUCK/LOADER TEAM WORKTask description: Pit floor topsoil placementSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146PROJECT IDENTIFICATIONTask #: 06AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-06aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 772
-Loader:	CAT 980H
Support Equipment -Load Area:	CAT 980H
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

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	NA	NA
Ownership cost/hour:	\$116.97	\$69.00	\$69.00	NA	NA	NA
Operating cost/hour:	\$82.54	\$60.57	\$60.57	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Operator cost/hour:	\$25.24	\$36.85	\$36.85	NA	NA	NA
Unit Subtotals:	\$224.75	\$166.42	\$166.42	NA	NA	NA
Number of Units:	2	1	1	0	0	0
Group Subtotals:	Work: \$615.92		Support: \$166.42		Maint: \$0.00	

Total work team cost/hour: \$782.34MATERIAL QUANTITIESInitial volume: 20,264

CCY

Swell factor: 1.000Loose volume: 20,264

LCY

Source of estimated volume: 25.12 ac x 6"Source of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00HOURLY PRODUCTIONTruck Capacity:Truck Payload (weight) Basis:Material weight: 1,600

Pounds/LCY

Description: Top SoilRated Payload: 92,900

Pounds

Payload Capacity: 58.06

LCY

Truck Bed (volume) Basis:

Struck Volume:	26.40	LCY
Heaped Volume:	36.00	LCY
Average Volume:	31.20	LCY
Adjusted Volume:	36.00	LCY

Final Truck Volume Based on Number of Loader Passes: 29.25 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - uniform aggregates to 1/8" (95-100%) 0.975
Adjusted Capacity:	7.313	LCY

Job Condition Corrections:

Site Altitude (ft.): 6750 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: 4 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): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 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:		0.490	minutes
Net Load Time per Truck:		1.570	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	1.570	Minutes	Adjusted for site altitude:	1.570	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	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	300.00	0.00	3.00	3.00	2626	0.471

Haul Time: **0.471** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	0.00	3.00	3.00	3087	0.240

Return Time: **0.240** minutesTotal Truck Cycle Time: **4.081** minutes

Loading Tool unit

Production 773.13 LCY/Hour Adjusted for job efficiency: 641.70 LCY/Hour
Truck Unit Production 430.04 LCY/Hour Adjusted for job efficiency: 356.93 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 713.87 LCY/Hour
Adjusted single truck/loader team production: 641.70 LCY/Hour
Adjusted multiple truck/loader team production: **641.70** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **31.58** HoursUnit cost: \$1.219 /LCY Total job cost: **\$24,705**

BULLDOZER WORKTask description: **Pit floor topsoil shaping**Site: **Montoya Pit** Permit Action: **2024-06-26** Permit/Job#: **M1980146****PROJECT IDENTIFICATION**

Task #:	06B	State:	Colorado	Abbreviation:	None
Date:	6/26/2024	County:	La Plata	Filename:	M146-06b
User:	DMC				

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

Basic Machine:	Cat D10T - 10SU
Horsepower:	574
Blade Type:	Semi-Universal
Attachment:	NA
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:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour:	\$492.91
Total Fleet Cost/Hour:	\$492.91

MATERIAL QUANTITIES

Initial Volume:	20,264
Swell factor:	1.000
Loose volume:	20,264 LCY

Source of estimated volume:	25.12 ac x 6"
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: **Loose stockpile 1.2**

Average push gradient:	0 %
Average site altitude:	6,750 feet

Material weight: **1,600 lbs/LCY**Weight description: **Top Soil**

<u>Job Condition Correction Factor</u>	<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: 1,477.05 LCY/hr

Adjusted fleet production: **1477.05** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.334/LCY

Total job time: **13.72** Hours

Total job cost: **\$6,762**

REVEGETATION WORKTask description: Seed disturbed areasSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146PROJECT IDENTIFICATIONTask #: 07AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-07aUser: DMCAgency or organization name: DRMSFERTILIZING**Materials**

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

Application

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

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	2.00	0.62	\$113.03
Indian Ricegrass - Native	2.00	6.47	\$34.58
Chokecherry	2.00	0.14	\$98.92
Western Wheatgrass - Arriba	4.00	10.10	\$36.13
Sagebrush, Mountain or Big	0.15	7.92	\$12.40
Flax, Lewis Blue	0.15	1.00	\$6.34
Yarrow, White	1.00	63.59	\$73.39
Totals Seed Mix	11.30	89.83	\$374.80

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
Weed spray, hand, non-aquatic area, nox. [DMG]	\$209.61
Total Mulch Application Cost/Acre	\$294.98

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: 35.43 Cost /Acre: \$2,009.59
 Estimated Failure Rate: 20% Cost /Acre*: \$2,009.59
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$71,199.77
 Reseeding Job Cost: \$14,239.95
 Total Job Cost: \$85,440
 Job Hours: 35.00

BULLDOZER WORKTask description: Southwest slope shaping on southern boundarySite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146**PROJECT IDENTIFICATION**Task #: 08AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-08aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D10T - 10SUHorsepower: 574Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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: \$492.91Total Fleet Cost/Hour: **\$492.91****MATERIAL QUANTITIES**Initial Volume: 21,120Swell factor: 1.250Loose volume: **26,400 LCY**Source of estimated volume: 2.23 acSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 60 feetUnadjusted hourly production: 2,551.3 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 6,750 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**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>0.800</u>	<u>(POOR)</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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3234

Adjusted unit production: 825.09 LCY/hr

Adjusted fleet production: **825.09** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.597/LCY

Total job time: **32.00** Hours

Total job cost: **\$15,771**

BULLDOZER WORKTask description: Shape dirt slopes of old southern mining holeSite: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146**PROJECT IDENTIFICATION**

Task #:	<u>09A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>6/26/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M146-09a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D10T - 10SU</u>
Horsepower:	<u>574</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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:	<u>\$492.91</u>
Total Fleet Cost/Hour:	<u>\$492.91</u>

MATERIAL QUANTITIES

Initial Volume:	<u>158,400</u>
Swell factor:	<u>1.250</u>
Loose volume:	<u>198,000 LCY</u>

Source of estimated volume:	<u>4.78 ac</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>75 feet</u>
Unadjusted hourly production:	<u>2,105.3 LCY/hr</u>

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,750 feet</u>

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

<u>Job Condition Correction Factor</u>		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 851.17 LCY/hr

Adjusted fleet production: **851.17** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.579/LCY

Total job time: **232.62** Hours

Total job cost: **\$114,660**

BULLDOZER WORKTask description: **3:1 dirt slope on pool table east of stationary crusher**Site: **Montoya Pit**Permit Action: **2024-06-26**Permit/Job#: **M1980146****PROJECT IDENTIFICATION**Task #: **10A**State: **Colorado**Abbreviation: **None**Date: **6/26/2024**County: **La Plata**Filename: **M146-10a**User: **DMC**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D10T - 10SU**Horsepower: **574**Blade Type: **Semi-Universal**Attachment: **NA**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:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA

Total unit Cost/Hour: **\$492.91**Total Fleet Cost/Hour: **\$492.91****MATERIAL QUANTITIES**Initial Volume: **7,920**Swell factor: **1.250**Loose volume: **9,900 LCY**Source of estimated volume: **.75 ac**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **2,748.7 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **0 %**Average site altitude: **6,750 feet**Material weight: **2,550 lbs/LCY**Weight description: **Earth - Dry packed****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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 1,111.30 LCY/hr

Adjusted fleet production: **1111.3** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.444/LCY

Total job time: **8.91** Hours

Total job cost: **\$4,391**

BULLDOZER WORKTask description: Fill in the remainder of the northern holeSite: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146**PROJECT IDENTIFICATION**

Task #:	<u>11A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>6/26/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M146-11a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D10T - 10SU</u>
Horsepower:	<u>574</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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:	<u>\$492.91</u>
Total Fleet Cost/Hour:	<u>\$492.91</u>

MATERIAL QUANTITIES

Initial Volume:	<u>15,840</u>
Swell factor:	<u>1.370</u>
Loose volume:	<u>21,701 LCY</u>

Source of estimated volume:	<u>.83 ac</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>100 feet</u>
Unadjusted hourly production:	<u>1,718.9 LCY/hr</u>

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,750 feet</u>

Material weight: 1,600 lbs/LCYWeight description: Coal - Bituminous, Raw**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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6445

Adjusted unit production: 1,107.83 LCY/hr

Adjusted fleet production: **1107.83** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.445/LCY

Total job time: **19.59** Hours

Total job cost: **\$9,655**

BULLDOZER RIPPING WORK

Task description: Rip pit floor BLM

Site: Montoya Pit Permit Action: 2024-06-26 Permit/Job#: M1980146

PROJECT IDENTIFICATION

Task #: 12A State: Colorado Abbreviation: None
Date: 6/26/2024 County: La Plata Filename: M146-12a
User: DMC

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: 36.01 acres Rip Depth (ft): 12.00 Volume: 697,154 BCY or CCY

Source of estimated quantity: Operator

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.87 feet/pass
Average Ripping Width: 8.67 feet/pass
Average Ripping Length: 250.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.966 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.966 Acres/hr
Site Altitude: 6,750 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.80 Acres/hr
Adjusted Hourly Fleet Production: 0.80 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 44.92 Hours

Unit cost: \$660.667 Per acre Total job cost: \$23,791

TRUCK/LOADER TEAM WORKTask description: Pit floor topsoil placement BLMSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146PROJECT IDENTIFICATIONTask #: 13AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-13aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 772
-Loader:	CAT 980H
Support Equipment -Load Area:	CAT 980H
-Dump Area:	NA
Road Maintenance –Motor Grader:	NA
-Water Truck:	NA

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	NA	NA
Ownership cost/hour:	\$116.97	\$69.00	\$69.00	NA	NA	NA
Operating cost/hour:	\$82.54	\$60.57	\$60.57	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	NA
Operator cost/hour:	\$25.24	\$36.85	\$36.85	NA	NA	NA
Unit Subtotals:	\$224.75	\$166.42	\$166.42	NA	NA	NA
Number of Units:	2	1	1	0	0	0
Group Subtotals:	Work: \$615.92		Support: \$166.42		Maint: \$0.00	

Total work team cost/hour: \$782.34MATERIAL QUANTITIESInitial volume: 29,048

CCY

Swell factor: 1.000Loose volume: 29,048

LCY

Source of estimated volume: 36.01 ac x 6"Source of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00HOURLY PRODUCTIONTruck Capacity:Truck Payload (weight) Basis:Material weight: 1,600

Pounds/LCY

Description: Top SoilRated Payload: 92,900

Pounds

Payload Capacity: 58.06

LCY

Truck Bed (volume) Basis:

Struck Volume:	26.40	LCY
Heaped Volume:	36.00	LCY
Average Volume:	31.20	LCY
Adjusted Volume:	36.00	LCY

Final Truck Volume Based on Number of Loader Passes: 29.25 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.975	Loose material - uniform aggregates to 1/8" (95-100%) 0.975
Adjusted Capacity:	7.313	LCY

Job Condition Corrections:

Site Altitude (ft.): 6750 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: 4 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): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 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:		0.490	minutes
Net Load Time per Truck:		1.570	minutes

Truck Cycle Time:

Truck Exchange Time:	0.70	Minutes	Adjusted for site altitude:	0.700	Minutes
Truck Load Time:	1.570	Minutes	Adjusted for site altitude:	1.570	Minutes
Truck Maneuver and Dump Time:	1.10	Minutes	Adjusted for site altitude:	1.100	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	250.00	0.00	3.00	3.00	2626	0.452

Haul Time: **0.452** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	250.00	0.00	3.00	3.00	3087	0.224

Return Time: **0.224** minutesTotal Truck Cycle Time: **4.046** minutes

Loading Tool unit
 Production 773.13 LCY/Hour Adjusted for job efficiency: 641.70 LCY/Hour
 Truck Unit Production
433.76 LCY/Hour Adjusted for job efficiency: 360.02 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 720.04 LCY/Hour
 Adjusted single truck/loader team production: 641.70 LCY/Hour
 Adjusted multiple truck/loader team production: **641.70** LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **45.27** HoursUnit cost: \$1.219 /LCY Total job cost: **\$35,415**

BULLDOZER WORKTask description: **Pit floor topsoil shaping BLM**Site: **Montoya Pit** Permit Action: **2024-06-26** Permit/Job#: **M1980146****PROJECT IDENTIFICATION**

Task #:	<u>13B</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>6/26/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M146-13b</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D10T - 10SU</u>
Horsepower:	<u>574</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</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:	<u>\$492.91</u>
Total Fleet Cost/Hour:	<u>\$492.91</u>

MATERIAL QUANTITIES

Initial Volume:	<u>29,048</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u>29,048 LCY</u>

Source of estimated volume:	<u>36.01 ac x 6"</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>100 feet</u>
Unadjusted hourly production:	<u>1,718.9 LCY/hr</u>

Materials consistency description: Loose stockpile 1.2

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,750 feet</u>

Material weight: 1,600 lbs/LCYWeight description: Top Soil

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill:	<u>0.750</u>
Material consistency:	<u>1.200</u>
Dozing method:	<u>1.000</u>
Visibility:	<u>1.000</u>

	<u>(AVG.)</u>
	<u>(CAT HB)</u>
	<u>(GEN.)</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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 1,477.05 LCY/hr

Adjusted fleet production: **1477.05** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.334/LCY

Total job time: **19.67** Hours

Total job cost: **\$9,694**

REVEGETATION WORKTask description: Seed disturbed areas BLMSite: Montoya PitPermit Action: 2024-06-26Permit/Job#: M1980146PROJECT IDENTIFICATIONTask #: 14AState: ColoradoAbbreviation: NoneDate: 6/26/2024County: La PlataFilename: M146-14aUser: DMCAgency or organization name: DRMSFERTILIZING**Materials**

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

Application

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

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	2.00	0.62	\$113.03
Indian Ricegrass - Native	2.00	6.47	\$34.58
Chokecherry	2.00	0.14	\$98.92
Western Wheatgrass - Arriba	4.00	10.10	\$36.13
Sagebrush, Mountain or Big	0.15	7.92	\$12.40
Flax, Lewis Blue	0.15	1.00	\$6.34
Yarrow, White	1.00	63.59	\$73.39
Totals Seed Mix	11.30	89.83	\$374.80

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
Weed spray, hand, non-aquatic area, nox. [DMG]	\$209.61
Total Mulch Application Cost/Acre	\$294.98

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: 36.01 Cost /Acre: \$2,009.59
 Estimated Failure Rate: 20% Cost /Acre*: \$2,009.59
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$72,365.34**
 Reseeding Job Cost: **\$14,473.07**
 Total Job Cost: **\$86,838**
 Job Hours: **36.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization**Site: **Montoya Pit**Permit Action: **2024-06-26**Permit/Job#: **M1980146****PROJECT IDENTIFICATION**Task #: **15A**State: **Colorado**Abbreviation: **None**Date: **6/26/2024**County: **La Plata**Filename: **15a20240626**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 D10T - 10SU	93.31	\$282.41	\$125.64	1	\$408.05	\$125.64	\$500.00
CAT 980H	33.12	\$69.00	\$122.78	1	\$191.78	\$122.78	\$250.00
Cat 772	36.80	\$116.97	\$122.78	2	\$479.50	\$245.56	\$250.00

Subtotals: **\$1,079.33** **\$493.98** **\$1,000.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$13.77	1	\$13.77	\$13.77
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: **\$151.40** **\$151.40**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>3.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$6,527.09</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$20.19</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.07</u>	<u>0.07</u>
Return Time (Hours):	<u>0.07</u>	<u>0.07</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>2.13</u>	<u>0.13</u>

JOB TIME AND COST

Total job time:	<u>4.27</u>	Hours
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Total job cost:	<u>\$6,547</u>
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**C&J GRAVEL
PRODUCTS, INC.**

Montoya Pit

27661 HWY 160 Durango, Co 81301

2024 updated reclamation cost

- reclamation cost: current mining area
35.43 acres (See Map L1)

1: Northwest corner shaping 7.05 acres:

-Cat D10T: 30 hours \$7,500

A. 7.05 acres

B. 79,200yd³ shaping

I. 100' average push with a 200' maximum push

II. 30 second average push @ 22yd³ per pass

III. 2,640yds hour

2: Southwest corner shaping

-Cat D10T: 8 hours \$2,000

A. 1.44 acres

B. 21,120yd³ shaping

I. 100' average push with a 200' maximum push

II. 30 second average push @ 22yd³ per pass

III. 2,640yds hour

3: Northwest slope soil placement (Map 1)

-Volvo A35-C: 12.58 hours \$968.66

-Cat 982M: 2.39 hours \$395.54

-Cat D10T 3.64 hours \$910

A. 7.05 acres: 6" overburden = 5,460yd³

B. 816' maximum haul distance

C. A-35C: 287 loads @ 2.63 min per load

I. 30 second load time. 2 passes with a Cat 982M

II. 1.23 minutes haul time roundtrip @ 10MPH

III. 45 seconds to dump material

D. Cat 982M: 287 loads @ 30 seconds each = 2.39hrs

E. Cat D10T: 5,460yds³ @ 1,500yds³ hour = 3.64hrs

4. Southwest slope soil placement

-Volvo A35-C: 2.58 hours \$198.66

-Cat 982M: .49 hours \$81.09

-Cat D10T: .74 hours \$185

A. 1.44 acres:

B. 1.44 acres @ 6" = 1,119.2 yds³ dirt

C. 816' maximum haul distance

- D. A35-C: 58.90 loads @ 2.63 min per load
 - I. 30 second load time. 2 passes with a Cat 982M
 - II. 1.23 minutes haul time @10mph
 - III. 45 seconds to dump material
- E. Cat 982M: 58.9 loads @ 30 seconds each = .49hour
- F. Cat D10T: 1,119.2yds³ @1,500yds³ hour = .74hour

5: Rip pit floor

D10T : 25.25 hours \$6,312.50

- A. 25.12 acres
- B. 12" rip depth

6: Place overburden/topsoil over the pit floor 25.12 acres

- Volvo A-35C 29.01 hours \$2,233.77

-Cat 982M 8.53 hours \$1,411.71

-Cat D10T 12.97hours \$ 3,242.50

- A. 25.12 acres
- B. 25.12 acres @ 6" = 19,456.97 yd³ dirt
- C. 600' max haul distance from numerous load out zones; using a Volvo A-35 articulated haul truck with the capability of holding 19 cubic yards heaped.

D. A-35C: 19,456.97 yd³ ÷ 19 = 1,024 loads @ 1.7 min per load

I: 30 second load time. 2 passes with a Cat 982M

II: 27 seconds drive to the dump site @15mph

III: 45 seconds to dump material

E. Cat 982M: 1,024 loads @ 30 seconds per load = 8.53 hours

F. Cat D10T: 19,456.97 yd³ @ 1,500 yd³ per hour = 12.97 hours

7: Seed permit area

-35hr labor \$875

-800.71 pounds seed \$8,007.10

A: Pit floor + slopes = 35.43 acres

B: Hand broadcast 800.71 pounds of seed hand broadcasted @ 22.6 pounds per acre

Summary

Cat D10T:\$20,150

Cat 982M: \$1,888.34

Volvo A35: \$3,401.09

Labor: \$875

Seed: \$8007.10

\$34,321.53

Map L1 Source: Kespri



C&J Gravel BLM active current stockpile area (see map L2)

36.01 acres of active pit floor (on BLM property, not including slopes)

1. Southwest slope shaping on Southern boundary:

-D10T: 8 hours \$2,000

A. 2.23 acres

B. 21,120 yd³ shaping

I. 100' average push with a 200' maximum push

II. 30 second average push @ 22yds per pass

III. 2,640 yd³ hour

2. Shape dirt slopes of old Southern mining hole:

-D10T: 60 hours \$15,000

A. 4.78 acres

B. 158,400 yd³ shaping

I. 100' average push with a 200' maximum push

II. 30 second average push @ 22yds per pass

III. 2,640 yd³ hour

3. 3:1 dirt slope on the pool table East of the stationary crusher

-D10T: 3 hours \$750

A. .75 acres

B. 7,920 yd³ shaping

I. 100' average push with a 200' maximum push

II. 30 second average push @ 22yds per pass

III. 2,640 yd³ hour

4. Fill the remainder of the northern hole

-D10T: 6 hours \$1,500

A. .83 acre

B. 15,840 yd³ shaping

I. 100' average push with a 200' maximum push

II. 30 second average push @ 22yds per pass

III. 2,640 yd³ hour

5. Rip existing pit floor

-D10T: 36.01 hours \$9,002.50

A. 12" rip depth

B. 36.01 acres

6. Place overburden over the pit floor

-D10T: 18.59 hours \$ 4,647.50

-A35-C: 48.93 hours \$ 3,767.61

-982M: 12.23 hours \$ 2,024.06

A. 36.01 acres

B. 36.01 acres @ 6" = 27,890.96 yds³ dirt

C. 500' maximum haul distance from numerous loadout zones; using a Volvo A35-C.

D. $27,890.96 \text{ yds}^3 \div 19 = 1,467.94 \text{ loads @ } 2.00 \text{ min per load}$

I. 30 second load time. 2 passes with a Cat 982M

II. 45.44 seconds drive to dump site and back @ 15MPH

III. 45 seconds to dump material

E. Cat 982M: $1,467.94 \text{ loads @ } 30 \text{ seconds per load} = 12.23 \text{ hours}$

F. Cat D10T: $27,890.96 \text{ yds}^3 \text{ @ } 1,500 \text{ yds}^3 \text{ hour} = 18.59 \text{ hours}$

7. Seeding

-36 hours labor \$900

-813.82 pounds \$8,138.2

A. 36.01 acres

B. 813.82 pounds of seed hand broadcasted @22.6 pounds per acre

Summary

Cat D10T: \$32,900

Cat 982M: \$2,024.06

Volvo A35: \$3,767.61

Labor: \$900

Seed: \$8,138.20

\$47,729.87

Map L2 Source: Kespry



The properties belonging to Gilleland Enterprises LLC property will leave all structures in place after mining and reclamation are completed. These areas include the current office and mechanic repair facility. The flat usable pit floor could provide around 9.98 acres of commercial real estate. These structures could serve as future commercial office and shop spaces. The main access road will also stay in place to serve the Gilleland enterprise properties.



Reclaimed slopes: See Map L4

1. The 2 sections below need to be acknowledged and adjusted in our current bond
2. The 5.68 acres: Reclamation for this area has been completed and sitting for the last 10 years. We believe that the stable slopes combined with the adequate vegetation it should be considered for full release.
3. The 19.10 acres: We finished reclamation in 2020 and seeded it. It should be considered for a partial release since the major earth moving has been completed and hasn't showed any major eroding or settling. We are currently waiting for adequate growth of vegetation.

Map L4 Source: Kespry

