

January 25, 2024

Todd Fisher  
LBCR, LLC  
1440 Blue Sage Ct.  
Boulder, CO 80305



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

1313 Sherman Street, Room 215  
Denver, CO 80203

***RE: Ignacio Pit, Permit # M-1992-054, Reclamation Costs Update***

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$229,484.00. This is an increase of \$111,590.74 over the \$117,893.26 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Dustin Czapla', with a long horizontal flourish extending to the right.

***Dustin Czapla***  
Environmental Protection Specialist  
Division of Reclamation, Mining and Safety  
Phone: (303) 866-3567, ext. 8188



## COST SUMMARY WORK

Task description: 2024-01-23 Update

Site: Ignacio Pit

Permit Action: 2024-01-23 Update

Permit/Job#: M1992054

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/23/2024

County: La Plata

Filename: M054-000

User: DMC

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce interior highwalls to 3:1	DOZER	1	2.55	\$1,176
02a	Push overburden over graded areas	DOZER	1	73.68	\$33,942
03a	Carry overburden to graded areas to spread	SCRAPER1	1	44.04	\$57,940
04a	Spread topsoil over graded areas	DOZER	1	30.20	\$13,914
05a	Rip compacted areas	RIPPER	1	41.01	\$19,263
06a	Carry topsoil to graded areas to spread	SCRAPER1	1	24.83	\$32,665
07a	Revegetate 40 acres of disturbance	REVEGE	1	30.00	\$18,723
08a	Haul reclamation equipment to and from site	MOBILIZE	1	4.66	\$8,026
<b><u>SUBTOTALS:</u></b>				<b>250.97</b>	<b>\$185,649</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$3,750

Performance bond: 1.05

Total = \$1,949

Job superintendent: 125.48

Total = \$8,166

Profit: 10.00

Total = \$18,565

TOTAL O & P = \$32,431

CONTRACT AMOUNT (direct + O & P) = \$218,080

#### 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

\$10,904

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$43,835

**TOTAL BOND AMOUNT (direct + indirect) = \$229,484**

**BULLDOZER WORK**

Task description: Reduce interior highwalls to 3:1

Site: Ignacio Pit Permit Action: 2024-01-23 Update Permit/Job#: M1992054

**PROJECT IDENTIFICATION**

Task #: 01A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M054-01a  
 User: DMC

Agency or organization name: DRMS

**HOURLY EQUIPMENT COST**

Basic Machine: Cat D9T - 9SU  
 Horsepower: 405  
 Blade Type: Semi-Universal  
 Attachment: 3-shank ripper  
 Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.32</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$460.67  
 Total Fleet Cost/Hour: \$460.67

**MATERIAL QUANTITIES**

Initial Volume: 2,400  
 Swell factor: 1.330  
 Loose volume: 3,192 LCY

Source of estimated volume: DRMS, 1200 LF vert highwall, 15 ft avg, TR map  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 50 feet  
 Unadjusted hourly production: 2,110.5 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -25 %  
 Average site altitude: 6,240 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

**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>1.100</u>	<u>(50% SL)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.516	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5927

Adjusted unit production: 1,250.89 LCY/hr

Adjusted fleet production: **1250.89** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.368/LCY

Total job time: **2.55** Hours

Total job cost: **\$1,176**

**BULLDOZER WORK**

Task description: Push overburden over graded areas

Site: Ignacio Pit Permit Action: 2024-01-23 Update Permit/Job#: M1992054

**PROJECT IDENTIFICATION**

Task #: 02A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M054-02a  
 User: DMC

Agency or organization name: DRMS

**HOURLY EQUIPMENT COST**

Basic Machine: Cat D9T - 9SU  
 Horsepower: 405  
 Blade Type: Semi-Universal  
 Attachment: 3-shank ripper  
 Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$460.67  
 Total Fleet Cost/Hour: \$460.67

**MATERIAL QUANTITIES**

Initial Volume: 48,400  
 Swell factor: 1.000  
 Loose volume: 48,400 LCY

Source of estimated volume: DRMS, TR map, pit floors only, 1.5 ft deep  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 100 feet  
 Unadjusted hourly production: 1,243.2 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: -5 %  
 Average site altitude: 6,240 feet

Material weight: 2,900 lbs/LCY

Weight description: Decomposed rock - 50% Rock, 50% Earth

**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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5284

Adjusted unit production: 656.91 LCY/hr

Adjusted fleet production: **656.91 LCY/hr**

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.701/LCY

Total job time: **73.68 Hours**

Total job cost: **\$33,942**

**SCRAPER TEAM WORK**

Task description: Carry overburden to graded areas to spread

Site: Ignacio Pit Permit Action: 2024-01-23 Update Permit/Job#: M1992054

**PROJECT IDENTIFICATION**

Task #: 03A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M054-03a  
 User: DMC

Agency or organization name: DRMS

**HOURLY EQUIPMENT**

COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	NA
Operating cost/hour:	\$285.26	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$657.83	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work:	\$1,315.66	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$1,315.66

**MATERIAL QUANTITIES**

Initial volume: 48,400 CCY Swell factor: 1.000  
 Loose volume: 48,400 LCY

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

**HOURLY PRODUCTION**

		Scraper Bowl (volume) Basis:	
Material weight:	<u>2,900 lbs/LCY</u>	Struck Volume:	<u>24.00</u> LCY
Material description:	<u>Decomposed rock - 50% Rock, 50% Earth</u>	Heaped Volume:	<u>34.00</u> LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u> LCY
Payload Capacity:	<u>28.14 LCY</u>	Adjusted Capacity:	<u>28.14</u> LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes  
 Maneuver and Spread Time: 0.70 Minutes

Job Condition Correction:

Site Altitude: 6240 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	4.00	5.00	9.00	733	0.71

Haul Time: 0.71 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-4.00	5.00	1.00	2937	0.34

Return Time: 0.34 minutes

Total Scraper team cycle time: 2.55 minutes  
 Adjusted for job conditions: 549.52 LCY/Hour  
 Selected Number of Scrapers: 2 Scraper(s)  
 Adjusted single scraper team (unit) hourly production: 1,099.03 LCY/Hour  
 Adjusted multiple scraper team (fleet) hourly production: 1,099.03 LCY/Hour

Unadjusted unit production/hour: 662.07 LCY/Hour  
 Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**

Fleet size: 1 Team(s) Total job time: 44.04 Hours  
 Unit cost: \$1.197 /LCY Total job cost: \$57,940

**BULLDOZER WORK**Task description: Spread topsoil over graded areasSite: Ignacio PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1992054**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-04aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$18.32	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$460.67Total Fleet Cost/Hour: \$460.67**MATERIAL QUANTITIES**Initial Volume: 28,233Swell factor: 1.000Loose volume: 28,233 LCYSource of estimated volume: DRMS, TR map, 30 acres, 7 inch depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 1,243.2 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,240 feetMaterial weight: 1,600 lbs/LCYWeight 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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7519

Adjusted unit production: 934.76 LCY/hr

Adjusted fleet production: **934.76 LCY/hr**

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.493/LCY

Total job time: **30.20 Hours**

Total job cost: **\$13,914**

## BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: Ignacio Pit Permit Action: 2024-01-23 Update Permit/Job#: M1992054

### PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None  
Date: 1/23/2024 County: La Plata Filename: M054-05a  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU Horsepower: 405  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$18.32</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$8.98</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$469.65</u>	
Total Fleet Cost/Hour:	<u><b>\$469.65</b></u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 30.00 acres Rip Depth (ft): 1.00 Volume: 48,400 BCY or CCY

Source of estimated quantity: 30 ac area, TR map and plan

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth:	<u>2.63</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.67</u>	<u>feet/pass</u>
Average Ripping Length:	<u>400.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.881</u>	<u>acres/hour</u>

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.881</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,240</u>	<u>feet</u>
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>
Adjusted Hourly Unit Production:	<u>0.73</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u><b>0.73</b></u>	<u>Acres/hr</u>

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **41.02** Hours  
Unit cost: \$642.107 Per acre Total job cost: **\$19,263**

**SCRAPER TEAM WORK**

Task description: Carry topsoil to graded areas to spread

Site: Ignacio Pit Permit Action: 2024-01-23 Update Permit/Job#: M1992054

**PROJECT IDENTIFICATION**

Task #: 06A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M054-06a  
 User: DMC

Agency or organization name: DRMS

**HOURLY EQUIPMENT**

COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

**Cost Breakdown:**

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	NA
Operating cost/hour:	\$285.26	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$657.83	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work:	\$1,315.66	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$1,315.66

**MATERIAL QUANTITIES**

Initial volume: 28,233 CCY Swell factor: 1.000  
 Loose volume: 28,233 LCY

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

**HOURLY PRODUCTION**

		Scraper Bowl (volume) Basis:	
Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u> LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>34.00</u> LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u> LCY
Payload Capacity:	<u>51.00 LCY</u>	Adjusted Capacity:	<u>29.00</u> LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes  
 Maneuver and Spread Time: 0.70 Minutes

Job Condition Correction:

Site Altitude: 6240 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	4.00	5.00	9.00	733	0.70

Haul Time: 0.70 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-4.00	5.00	1.00	2937	0.34

Return Time: 0.34 minutes

Total Scraper team cycle time: 2.54 minutes  
 Adjusted for job conditions: 568.58 LCY/Hour  
 Selected Number of Scrapers: 2 Scraper(s)  
 Adjusted single scraper team (unit) hourly production: 1,137.17 LCY/Hour  
 Adjusted multiple scraper team (fleet) hourly production: 1,137.17 LCY/Hour

Unadjusted unit production/hour: 685.04 LCY/Hour  
 Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**

Fleet size: 1 Team(s) Total job time: 24.83 Hours  
 Unit cost: \$1.157 /LCY Total job cost: \$32,665

REVEGETATION WORKTask description: Revegetate 40 acres of disturbanceSite: Ignacio PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1992054PROJECT IDENTIFICATIONTask #: 07AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-07aUser: DMCAgency or organization name: DRMSFERTILIZINGMaterials

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

Application

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</b>

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
<b>Total Tilling Cost/Acre</b>	<b>\$451.62</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Rye, Annual Tetraploid - Barmultra	0.40	1.74	\$0.66
Orchardgrass - Paiute	1.60	19.83	\$6.52
Crested Wheatgrass - Hy-Crest	1.20	5.51	\$4.77
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Russian Wildrye - VNS	0.80	3.21	\$4.74
Pubescent Wheatgrass - VNS	2.00	4.13	\$6.30
<b>Totals Seed Mix</b>	<b>8.00</b>	<b>41.09</b>	<b>\$29.64</b>



EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Haul reclamation equipment to and from siteSite: Ignacio PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1992054PROJECT IDENTIFICATION

Task #: 08A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M054-08a  
 User: DMC

Agency or organization name: DRMSEQUIPMENT TRANSPORT RIG COSTShift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,  
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT  
TRAILER (25T, 50T, AND 100T)Cost Breakdown:

<u>Available Rig Capacities</u>	<u>0-25 Tons</u>	<u>26-50 Tons</u>	<u>51+ Tons</u>
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

NON ROADABLE EQUIPMENT:

<u>Machine Description</u>	<u>Weight/ Unit (TONS)</u>	<u>Owner ship Cost/hr/ unit</u>	<u>Haul Rig Cost/hr/unit</u>	<u>Fleet Size</u>	<u>Haul Trip Cost/hr/ fleet</u>	<u>Return Trip Cost/hr/ fleet</u>	<u>DOT Permit Cost/ fleet</u>
Cat D9T - 9SU	66.13	\$257.08	\$175.95	1	\$433.03	\$175.95	\$250.00
Cat 631G	52.50	\$341.67	\$175.95	2	\$1,035.24	\$351.90	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00

Subtotals: **\$1,557.29** **\$610.14** **\$1,000.00**ROADABLE EQUIPMENT:

<u>Machine Description</u>	<u>Total Cost/hr/ unit</u>	<u>Fleet Size</u>	<u>Haul Trip Cost/hr/ fleet</u>	<u>Return Trip Cost/hr/ fleet</u>
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: DURANGO  
 Total one-way travel distance: 30.00 miles  
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost \* \$8,004.49  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$21.11  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.67	0.67
Return Time (Hours):	0.67	0.67
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.33	1.33

**JOB TIME AND COST**

Total job time: 4.67 Hours

Total job cost: \$8,026