

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
<u>SUBTOTALS:</u>				250.97	\$185,649

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 WORKTask description: **Reduce interior highwalls to 3:1**Site: **Ignacio Pit**Permit Action: 2024-01-23 UpdatePermit/Job#: M1992054**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-01aUser: 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: 2,400Swell factor: 1.330Loose volume: **3,192 LCY**Source of estimated volume: DRMS, 1200 LF vert highwall, 15 ft avg, TR mapSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -25 %Average site altitude: 6,240 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)

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 WORKTask description: **Push overburden over graded areas**Site: **Ignacio Pit** Permit Action: **2024-01-23 Update** Permit/Job#: **M1992054****PROJECT IDENTIFICATION**

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

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

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

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:	<u>\$460.67</u>
Total Fleet Cost/Hour:	<u>\$460.67</u>

MATERIAL QUANTITIES

Initial Volume:	<u>48,400</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u>48,400 LCY</u>

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

HOURLY PRODUCTION

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

Materials consistency description: Loose stockpile 1.2

Average push gradient:	<u>-5 %</u>
Average site altitude:	<u>6,240 feet</u>

Material weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth

<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:	1.115	(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 WORKTask description: Carry overburden to graded areas to spreadSite: Ignacio PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1992054**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-03aUser: DMCAgency 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: 1.000Loose volume: 48,400

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource 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 MinutesManeuver and Spread Time: 0.70 MinutesJob 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 5.0Haul 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 minutesReturn 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 minutesTotal Scraper team cycle time: 2.55 minutesAdjusted for job conditions: 549.52 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,099.03 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,099.03 LCY/HourUnadjusted unit production/hour: 662.07 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 44.04 HoursUnit cost: \$1.197 /LCYTotal job cost: \$57,940

BULLDOZER WORKTask 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>\$469.65</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: 2.63 feet/pass
Average Ripping Width: 7.67 feet/pass
Average Ripping Length: 400.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.881 acres/hour

Job Condition Correction Factors

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

Adjusted Hourly Unit Production: 0.73 Acres/hr
Adjusted Hourly Fleet Production: 0.73 Acres/hr

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 WORKTask description: Carry topsoil to graded areas to spreadSite: Ignacio PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1992054**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-06aUser: DMCAgency 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: 1.000Loose volume: 28,233

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource 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 MinutesManeuver and Spread Time: 0.70 MinutesJob 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 5.0Haul 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 minutesReturn 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 minutesTotal Scraper team cycle time: 2.54 minutesAdjusted for job conditions: 568.58 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,137.17 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,137.17 LCY/HourUnadjusted unit production/hour: 685.04 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 24.83 HoursUnit cost: \$1.157 /LCYTotal job cost: \$32,665

REVEGETATION WORKTask description: Revegetate 40 acres of disturbanceSite: Ignacio PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1992054**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-07aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

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

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
Totals Seed Mix	8.00	41.09	\$29.64

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

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: 40 Cost /Acre: \$713.26
 Estimated Failure Rate: 25% Cost /Acre*: \$713.26
 *Selected Replanting Work Items: TILLING, SEEDING

Initial Job Cost: **\$28,530.40**
 Reseeding Job Cost: **\$7,132.60**
 Total Job Cost: **\$35,663**
 Job Hours: **30.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Haul reclamation equipment to and from site**Site: **Ignacio Pit**Permit Action: 2024-01-23 UpdatePermit/Job#: M1992054**PROJECT IDENTIFICATION**Task #: 08AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M054-08aUser: DMCAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
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:

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 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:**

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.	\$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:	<u>DURANGO</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

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

Transportation Cycle Time:

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

JOB TIME AND COST

Total job time:	<u>4.67</u>	Hours
-----------------	-------------	-------

Total job cost:	<u>\$8,026</u>
-----------------	----------------