



COLORADO

Division of Reclamation,
Mining and Safety


Department of Natural Resources

MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Hocker Gravel Pit	MINE/PROSPECTING ID#: M-2004-063	MINERAL: Sand and gravel	COUNTY: La Plata
INSPECTION TYPE: Monitoring	INSPECTOR(S): Lucas J. West	INSP. DATE: September 15, 2016	INSP. TIME: 11:00
OPERATOR: Hocker Construction, LLP	OPERATOR REPRESENTATIVE: Roy Hocker	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$26,676.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: September 29, 2016

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(CI) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety. The Hocker Pit is an active 112(c) permit located in La Plata County. The site consists of 81.7 permitted acres located just south of Highway 151 just east of Ignacio, CO at approximately 6680 Feet in elevation. Access to the site is controlled by a locked gate. Six Photos accompany this report to illustrate current site conditions.

The Division currently holds \$26,676.00 in financial warranty for the site. The financial warranty was recalculated and found to be insufficient to achieve reclamation of the site. Discussions with the operator indicate that he wishes to perform some reclamation, as well as submit a Technical Revision to update the seed mix on file. Enclosed with this report is the Reclamation Cost Estimate Worksheets for the operator's records, however the new bond amount has not been implemented. The operator has **60 days** from the date of this letter submit a request for a technical revision to update the seed mix, as well as submit a detailed plan, and construction schedule for the reclamation tasks to be completed. The reclamation tasks should be completed by spring of 2017. The request for a technical revision must be received by the Division's Denver Office no later than **Monday November 28, 2016**. If the Technical Revision is not received by the above listed date the Notice of Financial Warranty Increase will be issued as currently calculated.

Proper mine identification signage was posted at the entrance to the site, as seen in Photo One. The permit boundaries were clearly outlined with a mixture of T-posts, fence lines and earthen berms. All disturbances are contained within the permitted areas. The active mining area located in phase two appeared to be stable and in good condition. The mining activity has left the slopes at approximately 3H: 1V or shallower and all slopes appear to be stable. Photo Two shows the area of activity. Several stockpiles of overburden was observed on the pit floor. All stockpiles are in good condition and appear to be stable. Photo Three shows some of the stockpiles which are well vegetated with volunteer species. Material stockpiles area noted adjacent to the haul road that runs through the site and topsoil stockpiles are located at various locations throughout the site. Although the site was not active during the inspection, several pieces of equipment were on site. An area of the site is also being used as storage for trailers and various scrap items, which are being stored in a neat and orderly fashion. This is not being considered a problem at this time and the area can be seen in Photo Four.

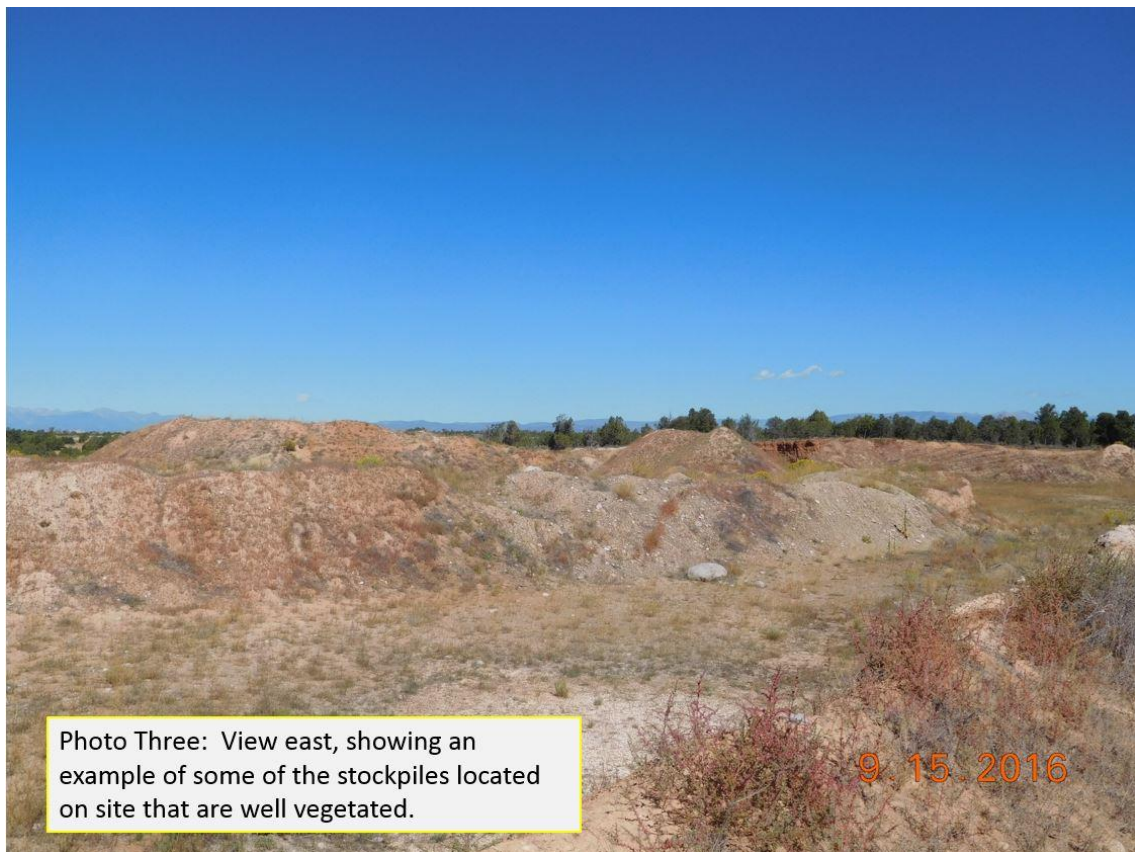
Several areas throughout the site, approximately 12 acres, has undergone reclamation. The grading of the area appears to be stable and no erosional features were noted. The area has also been vegetated, which is adequate in both density and diversity. The vegetation also shows signs of self-propagation with multiple years growth observed. Photos Four and Five show the reclaimed area. Evidence of chemical treatment of noxious weeds was observed, and conversations with the operator indicate that the weed management plan is active and on-going.

Two areas within the site are being used for storage of construction debris. A Technical Revision was completed to allow for the importation and on site disposal of the material. Photos Five and Six show the areas containing the debris. On site discussions with the operator indicate that he intends to recycle the metal in both areas, which includes protruding rebar from the concrete, prior to covering the piles with an earthen cap. The earthen cap will also be topsoiled and revegetated upon final reclamation.

The overall footprint of the site was in good condition, and no problems or possible violations were observed on site, all responses to this report should be directed to Lucas West at the Colorado Division of Reclamation, Mining and Safety at 1313 Sherman Street, Room 215, Denver, CO 80203, by email at lucas.west@state.co.us or by phone at (970)-243-6368.

PHOTOGRAPHS









Inspection Contact Address

Roy Hocker
Hocker Construction, LLP
P O Box 627
Ignacio, CO 81137

Enclosure: Request for Technical Revision Cover Sheet and Reclamation Cost Estimate Worksheets

CC: Russ Means Senior Environmental Protection Specialist



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- _____ Site Name: _____

County _____ TR# _____ (DRMS Use only)

Permittee: _____

Operator (If Other than Permittee): _____

Permittee Representative: _____

Please provide a brief description of the proposed revision: _____

As defined by the Minerals Rules, a Technical Revision (TR) is: “a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan.” The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered “filed for review” until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	<u>Required TR Fee</u>	<u>Submitted</u> (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	<input type="checkbox"/>
112 hard rock (not DMO)	\$175	<input type="checkbox"/>
110d, 112d(1, 2 or 3)	\$1006	<input type="checkbox"/>

COST SUMMARY WORK

Task description: _____

Site: Hocker Gravel Pit

Permit Action: 2016 Update

Permit/Job#: M2004063

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 9/28/2016

County: La Plata

Filename: M063-000

User: LJW

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce Highwalls 0.5H:1V to 3H:1V	DOZER	1	9.72	\$4,669.00
002	Replace Overburden, avg 1' Deep over 6 acres	DOZER	1	8.96	\$4,308.00
003	Replace Topsoil, 6" Deep over appx 12 acres	DOZER	1	28.42	\$13,661.00
004	Revegetation 12 acres	REVEGE	1	16.00	\$15,364.00
005	Mobilize/Demobilize	MOBILIZE	1	2.40	\$1,098.00
<u>SUBTOTALS:</u>				65.5	\$39,100

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 32.75
Profit: 10.00

Total = \$789.82

Total = \$410.55

Total = \$2,439.22

Total = \$3,910.00

TOTAL O & P = \$7,549.59

CONTRACT AMOUNT (direct + O & P) = \$46,649.59

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 0.00

\$0.00

CONTINGENCY: 3.00

Total = \$1,173.00

TOTAL INDIRECT COST = \$8,722.59

TOTAL BOND AMOUNT (direct + indirect) = \$47,822.59

BULLDOZER WORKTask description: Reduce Highwalls 0.5H:1V to 3H:1VSite: Hocker Gravel PitPermit Action: 2016 UpdatePermit/Job#: M2004063**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 9/28/2016County: La PlataFilename: M2004063User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D11T - 11UHorsepower: 850Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$222.81	NA
Operating Cost/Hour:	\$218.91	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.89	NA

Total unit Cost/Hour: \$480.61Total Fleet Cost/Hour: \$480.61**MATERIAL QUANTITIES**Initial Volume: 18,667Swell factor: 1.000Loose volume: 18,667 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 65 feetUnadjusted hourly
production: 3,986.3 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push
gradient: -5 %Average site altitude: 6,600 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% EarthJob Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4820

Adjusted unit
production: 1,921.40 LCY/hr

Adjusted fleet
production: 1921.4 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.250/LCY

Total job time: 9.72 Hours

Total job cost: \$4,669

BULLDOZER WORKTask description: Replace Overburden, avg 1' Deep over 6 acresSite: Hocker Gravel PitPermit Action: 2016 UpdatePermit/Job#: M2004063**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 9/28/2016County: La PlataFilename: M063-002User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D11T - 11UHorsepower: 850Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$222.81	NA
Operating Cost/Hour:	\$218.91	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.89	NA
Total unit Cost/Hour:	\$480.61	
Total Fleet Cost/Hour:	\$480.61	

MATERIAL QUANTITIESInitial Volume: 9,680Swell factor: 1.000Loose volume: 9,680 LCYSource of estimated volume: ((6 Ac* 43560 sq ft)*1 ft deep)/27=9,680 Cubic YdsSource of estimated swell
factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly
production: 2,036.8 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push
gradient: -5 %Average site altitude: 6,600 feetMaterial weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% EarthJob Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5302

Adjusted unit
production: 1,079.91 LCY/hr

Adjusted fleet
production: 1079.91 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.445/LCY

Total job time: 8.96 Hours

Total job cost: \$4,308

BULLDOZER WORKTask description: Replace Topsoil, 6" Deep over appx 12 acresSite: Hocker Gravel PitPermit Action: 2016 UpdatePermit/Job#: M2004063**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 9/28/2016County: La PlataFilename: M2004063User: LJWAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D11T - 11UHorsepower: 850Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$222.81	NA
Operating Cost/Hour:	\$218.91	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.89	NA
Total unit Cost/Hour:	\$480.61	
Total Fleet Cost/Hour:	\$480.61	

MATERIAL QUANTITIESInitial Volume: 38,720Swell factor: 1.000Loose volume: 38,720 LCYSource of estimated volume: ((12 Acres*43650 Sq Ft)*.5" Deep)/27=38,720 Cubic YdsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 2,036.8 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -5 %Average site altitude: 6,600 feetMaterial weight: 2,100 lbs/LCYWeight description: Earth - Loam

Job Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6688

Adjusted unit
production: 1,362.21 LCY/hr

Adjusted fleet
production: 1362.21 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.353/LCY

Total job time: 28.42 Hours

Total job cost: \$13,661

REVEGETATION WORKTask description: Revegetation 12 acresSite: Hocker Gravel PitPermit Action: 2016 UpdatePermit/Job#: M2004063PROJECT IDENTIFICATIONTask #: 004State: ColoradoAbbreviation: NoneDate: 9/28/2016County: La PlataFilename: M2004063User: LJWAgency or organization name: DRMSFERTILIZINGMaterials

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)	\$107.59
Total Tilling Cost/Acre	\$107.59

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indiangrass - Cheyenne	2.50	7.62	\$23.03
Blue Grama - Lovington	0.60	9.79	\$6.53
Crested Wheatgrass - Nordan	2.00	9.18	\$4.66
Western Wheatgrass - Arriba	3.20	8.08	\$11.81
Needle and Thread	3.00	7.92	\$141.24
Totals Seed Mix	11.30	42.60	\$187.26

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$246.00	\$492.00
Total Mulch Materials Cost/Acre				\$492.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$66.02
Total Mulch Application Cost/Acre	\$66.02

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:	12	Cost /Acre:	\$1,084.87
Estimated Failure Rate:	20%	Cost /Acre*:	\$977.28
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	\$13,018.44		
Reseeding Job Cost:	\$2,345.47		
Total Job Cost:	\$15,364		
Job Hours:	16.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilize/DemobilizeSite: Hocker Gravel PitPermit Action: 2016 UpdatePermit/Job#: M2004063**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 9/28/2016County: La PlataFilename: M2004063User: LJWAgency 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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D11T - 11U	134.12	\$222.81	\$125.45	1	\$348.26	\$125.45	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$0.00

Subtotals: **\$476.52** **\$214.12** **\$0.00****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.	\$34.08	1	\$34.08	\$34.08

Subtotals: **\$34.08** **\$34.08**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: IGNACIO
 Total one-way travel distance: 3.00 miles
 Average Travel Speed: 30.00 mph

Total Non-Roadable Mob/Demob Cost * \$1,091.17
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$6.82
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.10	0.10
Return Time (Hours):	0.10	0.10
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.20	0.20

JOB TIME AND COST

Total job time: 2.40 Hours

Total job cost: \$1,098