




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: Frentress Gravel Pit	MINE/PROSPECTING ID#: M-2011-017	MINERAL: Sand and gravel	COUNTY: Routt
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: July 17, 2023	INSP. TIME: 11:30
OPERATOR: J. Quarter Circle Mineral Co., LLC	OPERATOR REPRESENTATIVE: Bruce Johnson and Ryan Domson	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$17,414.53	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Hunter Ridley	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: August 9, 2023	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Slides & Other Damage

PROBLEM/POSSIBLE VIOLATION: Problem: A slough in the highwall was observed on-site. This is a problem at this time for failure to stabilize highwalls pursuant to Rule 3.1.5(3).

CORRECTIVE ACTIONS: The operator shall provide photo documentation to the Division verifying the highwall has been repaired, and that the site has been reconstructed and stabilized to prevent further damage by the corrective action date.

CORRECTIVE ACTION DUE DATE: 10/30/23

INSPECTION TOPIC: Slides & Other Damage

PROBLEM/POSSIBLE VIOLATION: Problem: The topsoil stockpiles do not have established vegetation on them and are therefore susceptible to erosion. Rule 3.1.9(1) states if topsoil is not replaced into the backfill area within a time short enough to avoid deterioration of the topsoil, vegetative cover or other means shall be employed so that the topsoil is protected from erosion.

CORRECTIVE ACTIONS: The operator shall seed the stockpiles with the seed mix that was submitted as part of the approved Reclamation Plan. If no seed mix has been provided, the operator shall submit a seed mix for approval as a technical revision to the permit along with the appropriate \$216 revision fee to the Division by the corrective action date. The Operator shall demonstrate compliance by submitting seed tags, a bill of sale or photographs of seeding activities. The Operator may also request a follow up inspection.

CORRECTIVE ACTION DUE DATE: 10/30/23

OBSERVATIONS

This inspection was conducted as part of the Colorado Division of Reclamation, Mining and Safety (Division) normal monitoring program. Frentress Gravel Pit is a 110c sand and gravel site that includes a total of 9.9 permitted acres. Approximately 7 acres are currently disturbed. It is located in Routt County approximately three miles southwest of Hayden, CO and is accessed from Routt County Road 65. Bruce Johnson and Ryan Domson represented J. Quarter Mineral Circle CO., LLC and accompanied Hunter Ridley of the Division on the inspection. The site was active at the time of inspection.

The mine identification sign and affected area boundary markers are in place and in compliance with Rule 3.1.12. The mine sign is located at the bottom of the pit access road (Photo 1). Pit corners are marked by white striped poles (Photo 3). The site was recently re-surveyed in 2022. A scale and scale house are located south of the pit (Photo 2). This scale house contains various safety equipment and personal protection equipment for use by mine workers. Fuel on site is stored in secondary containment (Photo 11).

The Operator stated that approximately 6-7 acres of the 9.9 permitted have been disturbed to date. The far northeastern corner of the pit has yet to be stripped and mined (Photo 6). The 2022 Annual Report for the Frentress Gravel Pit stated, in error, that 9.9 acres were currently disturbed and 1.0 acres were planned to be disturbed in the upcoming year. The Division encourages the Operator to complete the Annual Report using accurate acreage so as to avoid confusion during future inspections. A true increase in acreage past 9.9 acres would require a conversion of the permit to a 112c operation.

No reclamation has been completed to date at the site. Any impounded stormwater or snowmelt infiltrates through the pit floor. There is a stockpile of recycled asphalt located on the pit floor (Photo 10). This is brought into the site for crushing purposes and will be removed on an as needed basis. No recycled asphalt will be used as fill material for the site's reclamation.

The access road to the site as well as internal haul roads are well maintained. A water truck was noted to be running at the time of inspection. Overburden is stored on the northern portion of the pit (Photo 9). Topsoil is stored and bermed on the southern and eastern pit edges (Photos 4 and 5). The Operator stated that topsoil has not been sold for many years. The Division encourages the Operator to continue to preserve topsoil in an effort to maintain enough topsoil onsite for proper reclamation. While topsoil piles appear to have some vegetation growing on them, this is all volunteer vegetation and is mainly comprised of weeds. The Operator also stated that topsoil is not regularly seeded. Pursuant to Rule 3.1.9, "If such topsoil is not replaced on a backfill area within a time short enough to avoid deterioration of the topsoil, vegetative cover or other means shall be employed so that the topsoil is protected from erosion, remains free of any contamination by toxic or acid-forming material, and is in a usable condition for reclamation". **Therefore, the Division is citing a problem for failure to protect topsoil from erosion.** Please submit documentation to the Division that topsoil piles have been appropriately seeded by the corrective action due date. Please note that the approved reclamation plan currently states that reseeding will be performed as per the NRCS Reclamation Plan (attached). The Division also encourages the Operator to continue to spray for weeds throughout the season and follow the weed plan which was approved under TR2.

Through conversation with the operator, the excavated highwall was approximated to be 200' long by 25' high, with excavation being carried out in benches. The Operator stated that contemporaneous reclamation would occur on the highwall, i.e. the current bench will be filled in before starting work on the next. Aggregate is being mined to bedrock and is moving from east to west across the site. The current processing area will also be eventually mined out (Photo 9). The highwall has sloughed slightly in the northeastern corner of the pit (Photos

7 and 8). The Operator stated that is was likely operator error rather than instability of the highwall material, as sloughing had never previously occurred anywhere else in the pit. **The Division is citing this as a problem for failure to protect the affected land from erosion pursuant to Rule 3.1.5(3).** Please submit photographic documentation to the Division that the highwall has been repaired by the corrective action due date. The edge of the highwall is approximately 10 feet from the permit boundary, with the overburden berm taking up 5 of those feet. The Division encourages extreme caution when operating close to the permit boundary to avoid accidental offsite damage and possible violation.

The Division currently holds a financial warranty amount of \$17,414.13 for this site. The bond was last updated in 2016. In an effort to ensure the Financial Warranty adequately reflects the actual current cost of fulfilling the requirements of the approved reclamation plan, the Division has updated the reclamation cost estimate. The Division has found the current bond to be inadequate for reclamation of the site. The updated required bond amount is \$37,390.00. This is an increase of \$19,975.47. A copy of staff calculations has been attached with this report. A notice of surety increase will be sent under separate cover.

Photographs taken during the inspection have been included below. Responses to this inspection report should be directed to: Hunter Ridley at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 720-868-7757 or via email at hunter.ridley@state.co.us

PHOTOGRAPHS



Photo 1: A mine sign is posted at the site's access road.



Photo 2: A scale and scale house are located down the road from the pit.



Photo 3: Permit boundaries are marked at the pit's corners by a white striped pole.



Photo 4: View looking to the southeastern corner of the pit. A highwall is located in this corner and topsoil is bermed on this eastern edge.



Photo 5: View south of pit boundary. Topsoil is bermed along the pit edge. Topsoil is currently un-vegetated.



Photo 6: View of the far northeastern corner of the pit which remains unmined.



Photo 7: Northeastern corner of the highwall. Some sloughing is evident along this wall. Highwall is ~ 10' away from the permit boundary.



Photo 8: Sloughing has occurred along the northern highwall.



Photo 9: View looking northeast of the pit floor, stockpiles, a crusher, and a large overburden pile to the north.



Photo 10: Stockpiles are located on the pit floor.



Photo 11: Fuel is stored in secondary containment. Site was active at the time of inspection.

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>N</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>N</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</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>Y</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

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

Inspection Contact Address

Bruce Johnson and Ryan Domson
J. Quarter Circle Mineral Co., LLC
801 8th Street, Suite 220
Greeley, CO 80631

COST SUMMARY WORK

Task description: Updated post inspection 7/17/2023

Site: Frentress Gravel Pit

Permit Action: Insp 7/17/23

Permit/Job#: M2011017

PROJECT IDENTIFICATION

Task #: HCR

State: Colorado

Abbreviation: None

Date: 7/17/2023

County: Routt

Filename: M017-HCR

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Push & Grade pit slopes to 3H:1V	DOZER	1	27.44	\$11,704
02a	Placement of topsoil (4.5 ac. at 7" depth)	DOZER	1	3.52	\$1,502
03a	Vegetate disturbed area	REVEGE	1	16.00	\$10,698
04a	Initial Mob./Demob. reclamation crew/equipment	MOBILIZE	1	5.20	\$4,209
04b	Secondary Mob./Demob. reclamation crew/equipment	MOBILIZE	1	5.20	\$2,017
<u>SUBTOTALS:</u>				57.36	\$30,130

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$609

Performance bond: 1.05

Total = \$316

Job superintendent: 16.36

Total = \$1,065

Profit: 10.00

Total = \$3,013

TOTAL O & P = \$5,003

CONTRACT AMOUNT (direct + O & P) = \$35,133

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

\$1,757

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$7,260

TOTAL BOND AMOUNT (direct + indirect) = \$37,390

BULLDOZER WORKTask description: **Push & Grade pit slopes to 3H:1V**Site: **Frentress Gravel Pit**Permit Action: **Insp 7/17/23**Permit/Job#: **M2011017****PROJECT IDENTIFICATION**Task #: **01A**State: **Colorado**Abbreviation: **None**Date: **7/19/2023**County: **Routt**Filename: **01a**User: **HR1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$426.60**Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: **9,259**Swell factor: **1.230**Loose volume: **11,389 LCY**Source of estimated volume: **400 lft, 25' H @ 1:1 to a 3:1**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **150 feet**Unadjusted hourly production: **634.3 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **0 %**Average site altitude: **6,380 feet**Material weight: **2,100 lbs/LCY**Weight description: **Earth - Loam****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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6544

Adjusted unit production: 415.09 LCY/hr

Adjusted fleet production: **415.09** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.028/LCY

Total job time: **27.44** Hours

Total job cost: **\$11,704**

BULLDOZER WORKTask description: **Placement of topsoil (4.5 ac. at 7" depth)**Site: **Frentress Gravel Pit**Permit Action: **Insp 7/17/23**Permit/Job#: **M2011017****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **7/19/2023**County: **Routt**Filename: **02a**User: **HR1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$426.60**Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: **4,235**Swell factor: **1.000**Loose volume: **4,235 LCY**Source of estimated volume: **4.5 ac @ 7" deep**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,400.0 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push gradient: **0 %**Average site altitude: **6,380 feet**Material weight: **1,600 lbs/LCY**Weight 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:	0.800	(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: 1,203.02 LCY/hr

Adjusted fleet production: **1203.02** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.355/LCY

Total job time: **3.52** Hours

Total job cost: **\$1,502**

REVEGETATION WORKTask description: Vegetate disturbed areaSite: Frentress Gravel PitPermit Action: Insp 7/17/23Permit/Job#: M2011017PROJECT IDENTIFICATIONTask #: 03AState: ColoradoAbbreviation: NoneDate: 7/19/2023County: RouttFilename: 03aUser: HR1Agency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6--6--6	40.00	pound	\$0.45	\$18.00
			Total Fertilizer Materials Cost/Acre	\$18.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	8.00	38.57	\$20.40
Smooth Brome - Lincoln	13.00	43.27	\$43.23
Intermediate Wheatgrass - Rush	20.00	42.70	\$56.00
Totals Seed Mix	41.00	124.54	\$119.63

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$468.00

Total Seed Application Cost/Acre	\$468.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$863.58

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$137.18

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: 4.5 Cost /Acre: \$1,761.03
 Estimated Failure Rate: 35% Cost /Acre*: \$1,761.03
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$7,924.64**
 Reseeding Job Cost: **\$2,773.62**
 Total Job Cost: **\$10,698**
 Job Hours: **16.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mob./Demob. reclamation crew/equipment**Site: **Frentress Gravel Pit**Permit Action: **Insp 7/17/23**Permit/Job#: **M2011017****PROJECT IDENTIFICATION**

Task #: **04A** State: **Colorado** Abbreviation: **None**
 Date: **7/19/2023** County: **Routt** Filename: **04a**
 User: **HR1**

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:	\$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 D8T - 8SU	47.71	\$241.38	\$158.17	1	\$399.55	\$158.17	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$596.80** **\$322.75** **\$750.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44

Subtotals: **\$27.44** **\$27.44**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

STEAMBOAT
SPRINGSTotal one-way travel distance: 28.00 milesAverage Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost *

\$4,164.88

** two round trips with haul rig:

Total Roadable Mob/Demob Cost **

\$43.90

** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.80	0.80
Return Time (Hours):	0.80	0.80
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.60	1.60

JOB TIME AND COSTTotal job time: 5.20 HoursTotal job cost: \$4,209

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary Mob./Demob. reclamation crew/equipmentSite: Frentress Gravel PitPermit Action: Insp 7/17/23Permit/Job#: M2011017**PROJECT IDENTIFICATION**

Task #: 04B State: Colorado Abbreviation: None
 Date: 7/19/2023 County: Routt Filename: 04b
 User: HR1

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:	\$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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
Subtotals:					\$197.25	\$164.58	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$27.44	1	\$27.44	\$27.44
Subtotals:			\$27.44	\$27.44

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

STEAMBOAT
SPRINGSTotal one-way travel distance: 28.00 milesAverage Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost *

\$1,973.43

** two round trips with haul rig:

Total Roadable Mob/Demob Cost **

\$43.90

** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.80	0.80
Return Time (Hours):	0.80	0.80
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.60	1.60

JOB TIME AND COSTTotal job time: 5.20 HoursTotal job cost: \$2,017