




**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.

|  |  |   |                             |
|--|--|---|-----------------------------|
| <b>MINE NAME:</b><br>Circle Dot Quarry               | <b>MINE/PROSPECTING ID#:</b><br>M-2007-067   | <b>MINERAL:</b><br>Gravel                                       | <b>COUNTY:</b><br>Garfield  |
| <b>INSPECTION TYPE:</b><br>Surety-Related Inspection | <b>WEATHER:</b> Clear  | <b>INSP. DATE:</b><br>November 20, 2024                         | <b>INSP. TIME:</b><br>11:30 |
| <b>OPERATOR:</b><br>Caerus Piceance LLC              | <b>OPERATOR REPRESENTATIVE:</b><br>Ed Seymour  | <b>TYPE OF OPERATION:</b><br>110c - Construction Limited Impact |                             |
| <b>REASON FOR INSPECTION:</b><br>Surety Related      | <b>BOND CALCULATION TYPE:</b><br>Complete Bond   | <b>BOND AMOUNT:</b><br>\$0.00                                   |                             |
| <b>DATE OF COMPLAINT:</b><br>NA                      | <b>POST INSP. CONTACTS:</b><br>None  | <b>JOINT INSP. AGENCY:</b><br>None                              |                             |
| <b>INSPECTOR(S):</b><br>Todd Jesse                   | <b>INSPECTOR'S SIGNATURE:</b><br> | <b>SIGNATURE DATE:</b><br>December 17, 2024                     |                             |

**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>N</u>    | (RD) ROADS----- <u>Y</u>        |
| (HB) HYDROLOGIC BALANCE----- <u>Y</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>Y</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>Y</u>       | (SP) STORM WATER MGT PLAN---- <u>N</u>   | (RS) RECL PLAN/COMP-- <u>N</u>  |
| (ES) OVERBURDEN/DEV. WASTE----- <u>N</u>   | (SC) EROSION/SEDIMENTATION--- <u>N</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

## **OBSERVATIONS**

This inspection report was conducted as part of the succession of operator process established by the Colorado Division of Reclamation, Mining, and Safety's Active Mines Program to verify conditions in order to calculate an updated financial warranty. The Circle Dot Quarry is a 110c Operation operated by Caerus Piceance LLC and QB Energy Operating LLC is the Prospective Successor. The site is located 10 miles north of Parachute, CO at an elevation of approximately 8220 feet. Public access is controlled by a gate from the Gardner Gulch Extension Road. Ed Seymour of Caerus Piceance was present during the inspection. The sky was mostly clear with temperatures in the 30s. The ground was partially snow covered from recent storms.

### **Financial Warranty:**

The last bond calculation was done in 2017. In an effort to ensure the financial warranty remains adequate to reclaim this site per the requirements of the approved reclamation plan, DRMS has updated the Reclamation Cost Estimate. The updated estimate is attached to this inspection report. Calculations estimate the cost of reclamation to be \$42,602. This is an increase of \$12,626 over the current surety held by the Division. A Notice of Surety Increase will be sent under a separate cover once the operator has had the opportunity to review the estimate and dispute any calculations. The Succession of Operator will not be issued until the new financial warranty is received by the Division.

### **Fish and Wildlife:**

Coyote tracks were observed in the snow near a stockpile of oversized material.

### **Hydrologic Balance:**

There is no groundwater exposed within the permit boundary. Minor amounts of meteoric water in the form of snow was observed within the disturbed area. Stormwater is contained within the disturbance area by berms. Ditches are free of obstruction and able to convey water. No erosional features were noted during the inspection.

Hydrocarbons were not stored on site. No spills were noted during the inspection.

### **Gen. Compliance With Mine Plan:**

Mining is being conducted in accordance with the approved mining plan. At the time of the inspection the operator had disturbed approximately 6 acres of the approved 9.11 acres. Mining is occurring along the top of the ridge on the north half of the permit. The operator is stripping overburden and topsoil as they mine and storing them for use in reclamation. Product stockpiles are located within the permit boundary.

### **Roads:**

The main haul ways and roads to access the site are well maintained and with no ruts or washer boarding. No erosion or slumping was observed on the roads during the inspection. Roadside ditches are free of obstruction and able to convey stormwater.

### **Signs and Markers:**

The mine identification sign and the affected area boundary markers are in place and in compliance with Rule 3.1.12. The sign is posted on the gate at the entrance to the site. The permit boundary is marked with fence lines as well as earthen berms that are easily identifiable.

### **Topsoil:**

Topsoil is being stockpiled in multiple locations along the perimeter of the pit. The topsoil stockpiles are

protected by vegetation. No signs of erosion or slumping were observed on the topsoil piles. There appears to be sufficient topsoil to complete reclamation.

All responses to this report should be directed to Todd Jesse with the Division's Active Mines Program at DRMS, Room 215, 1001 E. 62nd Ave. Denver, CO 80216. Direct contact can be made at the Division's Grand Junction Field Office, by phone at (720) 688-0626 or by email at [todd.jesse@state.co.us](mailto:todd.jesse@state.co.us).

## **PHOTOGRAPHS**



Photo 1 – View to the northwest of sign at entrance and fence line that marks permit boundary. Roadside ditch is free of obstructions.



Photo 2 – View to the northwest of mining area. Berm in background marks the permit boundary.



Photo 3 – View to the north of northern boundary and topsoil .pile



Photo 4 – View to the east of product stockpiles.

**Inspection Contact Address**

Ed Seymour  
Caerus Piceance LLC  
143 Diamond Ave  
Parachute, CO 81635



## COST SUMMARY WORK

Task description: \_\_\_\_\_

Site: Circle Dot Quarry

Permit Action: SO-2

Permit/Job#: M2007067

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 12/16/2024

County: Garfield

Filename: M067-000

User: TJ1

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

| Task                     | Description                             | Form Used | Fleet Size | Task Hours   | Cost            |
|--------------------------|---|-----------|------------|--------------|-----------------|
| 001                      | Rip and contour 6.5 ac                  | RIPPER    | 1          | 9.65         | \$4,679         |
| 002                      | Distribute 6" of topsoil over 6.5 ac    | DOZER     | 1          | 7.31         | \$3,334         |
| 003                      | Reveg 6.5 acres                         | REVEGE    | 1          | 16.00        | \$19,313        |
| 004                      | Initial Mobilization to and from site   | MOBILIZE  | 1          | 7.33         | \$4,976         |
| 005                      | Secondary Mobilization to and from site | MOBILIZE  | 1          | 7.33         | \$2,286         |
| <b><u>SUBTOTALS:</u></b> |   |           |            | <b>47.62</b> | <b>\$34,588</b> |

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$699

Performance bond: 1.05

Total = \$363

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$3,459

TOTAL O & P = \$4,521

CONTRACT AMOUNT (direct + O & P) = \$39,109

#### 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

\$1,955

CONTINGENCY: 3.00

Total = \$1,038

TOTAL INDIRECT COST = \$8,014

**TOTAL BOND AMOUNT (direct + indirect) = \$42,602**

## BULLDOZER RIPPING WORK

Task description: Rip and contour 6.5 ac

Site: Circle Dot Quarry

Permit Action: SO-2

Permit/Job#: M2007067

### PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 12/16/2024

County: Garfield

Filename: M067-001

User: TJ1

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU  
Ripper Attachment: 3-Shank Ripper

Horsepower: 405

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

|                             |                 | Utilization % |
|-----------------------------|-----------------|---------------|
| Ownership Cost/Hour:        | \$253.16        | NA            |
| Operating Cost/Hour:        | \$164.35        | 100           |
| Ripper Ownership Cost/Hour: | \$18.79         | NA            |
| Ripper Operating Cost/Hour: | \$9.48          | 100           |
| Operator Cost/Hour:         | \$38.59         | NA            |
| Total Unit Cost/Hour:       | \$484.37        |               |
| Total Fleet Cost/Hour:      | <b>\$484.37</b> |               |

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 6.50 acres Rip Depth (ft): 1.00 Volume: 10,487 BCY or CCY

Source of estimated quantity: Approx. site disturbance

### 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: 150.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.811 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.811 Acres/hr  
Site Altitude: 8,200 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.67 Acres/hr

Adjusted Hourly Fleet Production: **0.67** Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **9.66** Hours

Unit cost: \$719.772 Per acre Total job cost: **\$4,679**



**BULLDOZER WORK**Task description: Distribute 6" of topsoil over 6.5 acSite: Circle Dot QuarryPermit Action: SO-2Permit/Job#: M2007067**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 12/16/2024County: GarfieldFilename: M067-002User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

|                        |          | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour:   | \$253.16 | NA                   |
| Operating Cost/Hour:   | \$164.35 | 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: \$456.10Total Fleet Cost/Hour: **\$456.10****MATERIAL QUANTITIES**Initial Volume: 5,243Swell factor: 1.000Loose volume: **5,243 LCY**Source of estimated volume: Staff estimatesSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 910.5 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 8,200 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**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:   | 1.000 | (CAT HB)      |
| Altitude:        | 1.000 | (CAT HB)      |
| Material Weight: | 1.438 | (CAT HB)      |
| Blade type:      | 1.000 | (PAT)         |

Net correction: 0.7877

Adjusted unit production: 717.20 LCY/hr

Adjusted fleet production: **717.2** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.636/LCY

Total job time: **7.31** Hours

Total job cost: **\$3,334**

**REVEGETATION WORK**Task description: Reveg 6.5 acresSite: Circle Dot QuarryPermit Action: SO-2Permit/Job#: M2007067**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 12/16/2024County: GarfieldFilename: M067-003User: TJ1Agency or organization name: DRMS**FERTILIZING****Materials**

| Description                 | Units /<br>Acre | Unit  | Cost / Unit   | Cost /Acre      |
|-----------------------------|-----------------|-------|---|-----------------|
| 8-24-24, 10-15-15, 10-20-20 | 200.00          | pound | \$0.62  | \$124.28        |
|                             |                 |       | <b>Total Fertilizer<br/>Materials<br/>Cost/Acre</b> | <b>\$124.28</b> |

**Application**

| Description                                     | Cost /Acre     |
|---|----------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) | \$43.12        |
| <b>Total Fertilizer Application Cost/Acre</b>   | <b>\$43.12</b> |

**TILLING**

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

**SEEDING**

| Seed Mix                       | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre     |
|--------------------------------|--------------------------------|------------------------|----------------|
| Orchardgrass - Paiute          | 2.53                           | 31.36                  | \$11.60        |
| Mountain Brome - Bromar        | 2.60                           | 4.18                   | \$15.65        |
| Crested Wheatgrass - Hy-Crest  | 1.09                           | 5.00                   | \$5.50         |
| Russian Wildrye - Bozoisky     | 2.57                           | 10.32                  | \$28.46        |
| Intermediate Wheatgrass - Oahe | 2.47                           | 5.27                   | \$11.48        |
| Pubescent Wheatgrass - Luna    | 1.07                           | 2.21                   | \$5.35         |
| Regreen Hybrid                 | 2.21                           | 0.56                   | \$12.08        |
| <b>Totals Seed Mix</b>         | <b>14.54</b>                   | <b>58.91</b>           | <b>\$90.13</b> |

**Application**

| Description                             | Cost /Acre      |
|---|-----------------|
| Drill seeding (MEANS 32 92 19.13 0020)  | \$485.00        |
| <b>Total Seed Application Cost/Acre</b> | <b>\$485.00</b> |

**MULCHING and MISCELLANEOUS****Materials**

| Description                               | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre        |
|---|-----------------|------|-------------|-------------------|
| Herbicide - Curtail @ 4.0 pt/ac           | 1.00            | ACRE | \$36.14     | \$36.14           |
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00            | TON  | \$492.78    | \$985.56          |
| <b>Total Mulch Materials Cost/Acre</b>    |                 |      |             | <b>\$1,021.70</b> |

**Application**

| Description                                     | Cost /Acre      |
|---|-----------------|
| Power mulcher (MEANS 32 91 13.16 0350)          | \$157.25        |
| Weed spray, truck, non-aquatic area, nox. [DMG] | \$83.26         |
| <b>Total Mulch Application Cost/Acre</b>        | <b>\$240.51</b> |

**NURSERY STOCK PLANTING**

| Common Name                             | No /<br>Acre | Type and Size | Planting<br>Cost | Fertilizer<br>Pellet Cost | Cost /Acre    |
|---|--------------|---------------|------------------|---------------------------|---------------|
|   |              |               |                  |                           | \$            |
| <b>Totals Nursery Stock Cost / Acre</b> |              |               |                  |                           | <b>\$0.00</b> |

**JOB TIME AND COST**

No. of Acres: 6.5 Cost /Acre: \$2,122.35  
 Estimated Failure Rate: 40% Cost /Acre\*: \$2,122.35  
 \*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU  
LCHING

Initial Job Cost: \$13,795.28  
 Reseeding Job Cost: \$5,518.11  
 Total Job Cost: \$19,313  
 Job Hours: 16.00

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization to and from site**Site: **Circle Dot Quarry**Permit Action: **SO-2**Permit/Job#: **M2007067****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **12/16/2024**County: **Garfield**Filename: **M067-004**User: **TJ1**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:**

| <b>Available Rig Capacities</b> | <b>0-25 Tons</b> | <b>26-50 Tons</b> | <b>51+ Tons</b> |
|---------------------------------|------------------|-------------------|-----------------|
| 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/<br>Unit<br>(TONS) | Owner ship<br>Cost/hr/ unit | Haul Rig<br>Cost/hr/unit | Fleet<br>Size | Haul Trip<br>Cost/hr/<br>fleet | Return Trip<br>Cost/hr/ fleet | DOT Permit<br>Cost/ fleet |
|---|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Cat D9T - 9SU                             | 66.13                     | \$271.95                    | \$125.64                 | 1             | \$397.59                       | \$125.64                      | \$250.00                  |
| Drill/Broadcast<br>Seeder with<br>Tractor | 25.00                     | \$41.02                     | \$59.44                  | 1             | \$100.46                       | \$59.44                       | \$250.00                  |
| Power Mulcher<br>(Bowie LD-90)            | 6.00                      | \$27.21                     | \$59.44                  | 1             | \$86.65                        | \$59.44                       | \$250.00                  |

Subtotals: **\$584.70** **\$244.52** **\$750.00****ROADABLE EQUIPMENT:**

| Machine Description            | Total Cost/hr/<br>unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|--------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 3/4 T. | \$35.84                | 1          | \$35.84                     | \$35.84                       |

Subtotals: **\$35.84** **\$35.84**

**EQUIPMENT HAUL DISTANCE and Time**

|  |               |       |
|--|---------------|-------|
| Nearest Major City or Town within project area region: | PARACHUTE, CO |       |
| Total one-way travel distance:                         | 20.00         | miles |
| Average Travel Speed:                                  | 15.00         | mph   |

|                                     |            |
|-------------------------------------|------------|
| Total Non-Roadable Mob/Demob Cost * | \$4,880.65 |
| ** two round trips with haul rig:   |            |
| Total Roadable Mob/Demob Cost **    | \$95.57    |
| ** one round trip, no haul rig:     |            |

**Transportation Cycle Time:**

|                         | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours):      | 1.33                   | 1.33               |
| Return Time (Hours):    | 1.33                   | 1.33               |
| Loading Time (Hours):   | 0.50                   | NA                 |
| Unloading Time (Hours): | 0.50                   | NA                 |
| Subtotals:              | 3.67                   | 2.67               |

**JOB TIME AND COST**

|                 |      |       |
|-----------------|------|-------|
| Total job time: | 7.33 | Hours |
|-----------------|------|-------|

|                 |         |
|-----------------|---------|
| Total job cost: | \$4,976 |
|-----------------|---------|

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Secondary Mobilization to and from siteSite: Circle Dot QuarryPermit Action: SO-2Permit/Job#: M2007067**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 12/16/2024County: GarfieldFilename: M067-005User: TJ1Agency 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:**

| <b>Available Rig Capacities</b> | <b>0-25 Tons</b> | <b>26-50 Tons</b> | <b>51+ Tons</b> |
|---------------------------------|------------------|-------------------|-----------------|
| 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/<br>Unit<br>(TONS) | Owner ship<br>Cost/hr/ unit | Haul Rig<br>Cost/hr/unit | Fleet<br>Size | Haul Trip<br>Cost/hr/<br>fleet | Return Trip<br>Cost/hr/ fleet | DOT Permit<br>Cost/ fleet |
|---|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Drill/Broadcast<br>Seeder with<br>Tractor | 25.00                     | \$41.02                     | \$59.44                  | 1             | \$100.46                       | \$59.44                       | \$250.00                  |
| Power Mulcher<br>(Bowie LD-90)            | 6.00                      | \$27.21                     | \$59.44                  | 1             | \$86.65                        | \$59.44                       | \$250.00                  |
| Subtotals:                                |                           |                             |                          |               | <b>\$187.11</b>                | <b>\$118.88</b>               | <b>\$500.00</b>           |

**ROADABLE EQUIPMENT:**

| Machine Description            | Total Cost/hr/<br>unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|--------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 3/4 T. | \$35.84                | 1          | \$35.84                     | \$35.84                       |
| Subtotals:                     |                        |            | <b>\$35.84</b>              | <b>\$35.84</b>                |



**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: PARACHUTE, CO  
 Total one-way travel distance: 20.00 miles  
 Average Travel Speed: 15.00 mph

Total Non-Roadable Mob/Demob Cost \* \$2,190.19  
 \*\* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$95.57  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

|                         | Non-<br>Roadable<br>Equipment | Roadable<br>Equipment |
|-------------------------|-------------------------------|-----------------------|
| Haul Time (Hours):      | <u>1.33</u>                   | <u>1.33</u>           |
| Return Time (Hours):    | <u>1.33</u>                   | <u>1.33</u>           |
| Loading Time (Hours):   | <u>0.50</u>                   | <u>NA</u>             |
| Unloading Time (Hours): | <u>0.50</u>                   | <u>NA</u>             |
| Subtotals:              | <u>3.67</u>                   | <u>2.67</u>           |

**JOB TIME AND COST**

Total job time: 7.33 Hours

Total job cost: \$2,286