

February 3, 2017

Peter Freedman  
AuPt Industries, LLC  
P.O. Box 1424  
Edwards, CO 81632



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

1313 Sherman Street, Room 215  
Denver, CO 80203

***RE: West Side Placer, File No.M-2016-081, Hard Rock/Metal Mining Limited Impact Operation  
(110(1)) Reclamation Permit Application Decision Letter – Financial and Performance  
Warranty Request***

Dear Mr. Freedman:

On February 3, 2017, the Division of Reclamation, Mining and Safety (Division) approved the above noted permit application.

The amount of financial warranty set by the Division for this operation is an amount of \$30,186.49 (*enclosed*). A financial warranty of the entire amount, as well as a performance warranty, must be submitted to the Division before a Reclamation Permit may be issued. Please select a type of financial warranty from those detailed in Rule 4.3. Once a financial warranty type is selected, please download the applicable financial warranty and performance warranty forms from the Division's website <http://mining.state.co.us/Mineral%20Forms.htm>. You may also contact the Division to have copies of your selected warranty forms mailed to you.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial and performance warranties. Any questions regarding completion, execution and/or submittal of financial and/or performance warranty forms should also be directed to Barbara Coria.

**PLEASE NOTE THAT MINING OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION AFTER RECEIPT OF THE FINANCIAL AND PERFORMANCE WARRANTIES. A PERMIT WILL NOT BE ISSUED UNTIL THE ADEQUACY OF BOTH THE FINANCIAL WARRANTY AND PERFORMANCE WARRANTY ARE VERIFIED BY THE DIVISION.**

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at [amy.yeldell@state.co.us](mailto:amy.yeldell@state.co.us)

Sincerely,

**Amy Yeldell**  
Environmental Protection Specialist



Department of Natural Resources  
Division of Reclamation, Mining and Safety  
Phone: (970) 254-8511  
Fax: (970) 241-1516

Cc:  
Russ Means, Senior EPS, Grand Junction DRMS  
Philip Courtney, Colorado State Land Board

## COST SUMMARY WORK

Task description: New Permit

Site: West Side Placer

Permit Action: App

Permit/Job#: M2016081

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 1/17/2017

County: Moffat

Filename: M081-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

| Task                     | Description                          | Form Used | Fleet Size | Task Hours   | Cost            |
|--------------------------|--------------------------------------|-----------|------------|--------------|-----------------|
| 01a                      | Plug water well                      | BOREHOLE  | 1          | 4.00         | \$3,738.98      |
| 02a                      | Regrading Pond                       | DOZER     | 1          | 1.52         | \$243.00        |
| 02b                      | Overburden replacement and grading   | SCRAPER1  | 1          | 19.43        | \$11,115.00     |
| 03a                      | Topsoil replacement                  | DOZER     | 1          | 5.08         | \$813.00        |
| 04a                      | Seed mining phases                   | REVEGE    | 1          | 8.00         | \$1,482.00      |
| 04b                      | Seed roads, pond and operating areas | REVEGE    | 1          | 8.00         | \$1,096.00      |
| 05a                      | Initial Mobilization                 | MOBILIZE  | 1          | 5.78         | \$4,348.00      |
| 05b                      | Secondary Mobilization               | MOBILIZE  | 1          | 5.78         | \$1,196.00      |
| <b><u>SUBTOTALS:</u></b> |                                      |           |            | <b>57.59</b> | <b>\$24,032</b> |

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$485.45

Performance bond: 1.05

Total = \$252.34

Job superintendent: 0.00

Total = \$0.00

Profit: 10.00

Total = \$2,403.20

TOTAL O & P = \$3,140.99

CONTRACT AMOUNT (direct + O & P) = \$27,172.99

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,154.85

Reclamation management and/or administration: 5.00

\$1,358.65

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$6,154.49

**TOTAL BOND AMOUNT (direct + indirect) = \$30,186.49**

## BOREHOLE SEALING WORK

Task description: Plug water well

Site: West Side Placer

Permit Action: App

Permit/Job#: M2016081

### PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 1/17/2017

County: Moffat

Filename: M081-01a

User: ACY

Agency or organization name: DRMS

### UNIT COSTS

| Borehole Description       | Sealing/Item Method  | Diameter | Length | Quantity | Unit | Unit Cost | Total Cost |
|----------------------------|--|----------|--------|----------|------|-----------|------------|
| Plug lower portion of well | Bentonite seal - 8 in. (labor, equip, materials)                 | 7.875    | 295    | 295.00   | LF   | \$12.38   | \$3,652.10 |
| Plug upper portion of well | Portland cement grout - 10 in. (labor, equip, materials)         | 8.625    | 5      | 5.00     | LF   | \$16.68   | \$83.42    |
| Marker                     | Borehole location/identification marker (EA, material cost only) | 8.625    | 1      | 1.00     | EA   | \$3.47    | \$3.47     |

Job Hours: 4.00

Total Cost: \$3,739.00

**BULLDOZER WORK**Task description: **Regrading Pond**Site: **West Side Placer** Permit Action: **App** Permit/Job#: **M2016081****PROJECT IDENTIFICATION**

Task #: **02A** State: **Colorado** Abbreviation: **None**  
 Date: **1/17/2017** County: **Moffat** Filename: **M081-02a**  
 User: **ACY**

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

Basic Machine: **Cat D8T - 8U**  
 Horsepower: **305**  
 Blade Type: **Universal**  
 Attachment: **NA**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

|                        |         | <u>Utilization %</u> |
|------------------------|---------|----------------------|
| Ownership Cost/Hour:   | \$52.86 | NA                   |
| Operating Cost/Hour:   | \$68.35 | 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: **\$160.10**  
 Total Fleet Cost/Hour: **\$160.10**

**MATERIAL QUANTITIES**

Initial Volume: **887**  
 Swell factor: **1.060**  
 Loose volume: **940 LCY**

Source of estimated volume: **2993 sqft x 8' deep**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**

Average push distance: **50 feet**  
 Unadjusted hourly production: **1,627.0 LCY/hr**

Materials consistency description: **Partly consolidated stockpile 1.1**

Average push gradient: **0 %**  
 Average site altitude: **6,225 feet**

Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry****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:      | 0.700 | (FND-MF)      |
| Push gradient:   | 1.000 | (CAT HB)      |
| Altitude:        | 1.000 | (CAT HB)      |
| Material Weight: | 0.793 | (CAT HB)      |
| Blade type:      | 1.000 | (PAT)         |

Net correction: 0.3801

Adjusted unit production: 618.42 LCY/hr

Adjusted fleet production: **618.42** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.259/LCY

Total job time: **1.52** Hours

Total job cost: **\$243**

**SCRAPER TEAM WORK**Task description: Overburden replacement and gradingSite: West Side PlacerPermit Action: AppPermit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 02BState: ColoradoAbbreviation: NoneDate: 1/17/2017County: MoffatFilename: M081-02bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

| Equipment Description           |              |
|---------------------------------|--------------|
| -Scraper:                       | Cat 637G     |
| -Dozer:                         | NA           |
| Support Equipment -Load Area:   | Cat D8T - 8U |
| -Dump Area:                     | Cat D8T - 8U |
| 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    | 10                | 30        | NA           | NA          |
| Ownership cost/hour:   | \$139.29       | NA    | \$52.86           | \$52.86   | NA           | NA          |
| Operating cost/hour:   | \$187.69       | NA    | \$6.84            | \$20.51   | NA           | NA          |
| %Utilization-ripper:   | NA             | NA    | NA                | NA        | NA           | NA          |
| Ripper own. cost/hour: | NA             | NA    | \$0.00            | \$0.00    | NA           | NA          |
| Ripper op. cost/hour:  | NA             | NA    | \$0.00            | \$0.00    | NA           | NA          |
| Operator cost/hour:    | \$34.24        | NA    | \$38.89           | \$38.89   | NA           | NA          |
| Unit Subtotals:        | \$361.22       | NA    | \$98.59           | \$112.26  | NA           | NA          |
| Number of Units:       | 1              | 0     | 1                 | 1         | 0            | 0           |
| Group Subtotals:       | Work: \$361.22 |       | Support: \$210.85 |           | Maint:       | \$0.00      |

Total work team cost/hour: **\$572.07****MATERIAL QUANTITIES**Initial volume: 11,111

CCY

Swell factor: 1.000Loose volume: **11,111**

LCY

Source of estimated volume: 72" x 125' x 400' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

Material weight: 3,400 lbs/LCY  
 Material description: Sand and gravel - Wet  
 Rated Payload: 81,600 pounds  
 Payload Capacity: 24.00 LCY

Struck Volume: 24.00 LCY  
 Heaped Volume: 34.00 LCY  
 Average Volume: 29.00 LCY  
 Adjusted Capacity: **24.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6225 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: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 400.00             | 0.00      | 8.00          | 8.00          | 1131           | 0.40              |

Haul Time: 0.40 minutesReturn Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 400.00             | 0.00      | 8.00          | 8.00          | 1931           | 0.29              |

Return Time: 0.29 minutesTotal Scraper team cycle time: 2.09 minutesAdjusted for job conditions: 571.87 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 571.87 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 571.87 LCY/HourUnadjusted unit production/hour: 689.00 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 1 Team(s)Total job time: 19.43 HoursUnit cost: \$1.000 /LCYTotal job cost: \$11,115



**BULLDOZER WORK**Task description: Topsoil replacementSite: West Side PlacerPermit Action: AppPermit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 1/17/2017County: MoffatFilename: M081-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8UHorsepower: 305Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

|                        |         | <u>Utilization %</u> |
|------------------------|---------|----------------------|
| Ownership Cost/Hour:   | \$52.86 | NA                   |
| Operating Cost/Hour:   | \$68.35 | 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: \$160.10Total Fleet Cost/Hour: \$160.10**MATERIAL QUANTITIES**Initial Volume: 1,697Swell factor: 1.215Loose volume: 2,062 LCYSource of estimated volume: 11" over 125' x 400' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 515.8 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,225 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: 406.30 LCY/hr

Adjusted fleet production: **406.3** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.394/LCY

Total job time: **5.08** Hours

Total job cost: **\$813**

REVEGETATION WORKTask description: Seed mining phasesSite: West Side PlacerPermit Action: AppPermit/Job#: M2016081PROJECT IDENTIFICATIONTask #: 04AState: ColoradoAbbreviation: NoneDate: 1/17/2017County: MoffatFilename: M081-04aUser: ACYAgency or organization name: DRMSFERTILIZING**Materials**

| Description | Units /<br>Acre | Unit | Cost / Unit   | Cost /Acre    |
|-------------|-----------------|------|---|---------------|
|             |                 |      | \$  | \$            |
|             |                 |      | <b>Total Fertilizer<br/>Materials<br/>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) | \$107.59        |
| <b>Total Tilling Cost/Acre</b>                   | <b>\$107.59</b> |

SEEDING

| Seed Mix                         | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre      |
|----------------------------------|--------------------------------|------------------------|-----------------|
| Indian Ricegrass - Native        | 3.70                           | 11.98                  | \$24.98         |
| Galleta                          | 4.38                           | 15.99                  | \$110.60        |
| Western Wheatgrass - Arriba      | 5.52                           | 13.94                  | \$20.37         |
| Needle and Thread                | 6.06                           | 16.00                  | \$285.30        |
| Globemallow, Scarlet (or copper) | 0.50                           | 5.66                   | \$70.38         |
| Basin Wildrye - Trailhead        | 6.06                           | 24.62                  | \$39.75         |
| <b>Totals Seed Mix</b>           | <b>26.22</b>                   | <b>88.19</b>           | <b>\$551.37</b> |

**Application**

| Description                             | Cost /Acre      |
|---|-----------------|
| Broadcast seeding [DMG]                 | \$261.80        |
| <b>Total Seed Application Cost/Acre</b> | <b>\$261.80</b> |

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

| Description                            | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre    |
|--|-----------------|------|-------------|---------------|
|  |                 |      | \$          | \$            |
| <b>Total Mulch Materials Cost/Acre</b> |                 |      |             | <b>\$0.00</b> |

**Application**

| Description                              | Cost /Acre    |
|--|---------------|
|  | \$            |
| <b>Total Mulch Application Cost/Acre</b> | <b>\$0.00</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: 1.15                      Cost /Acre: \$920.76  
 Estimated Failure Rate: 40%                      Cost /Acre\*: \$920.76  
 \*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$1,058.87**  
 Reseeding Job Cost: **\$423.55**  
 Total Job Cost: **\$1,482**  
 Job Hours: **8.00**

**REVEGETATION WORK**Task description: Seed roads, pond and operating areasSite: West Side PlacerPermit Action: AppPermit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 04BState: ColoradoAbbreviation: NoneDate: 1/17/2017County: MoffatFilename: M081-04bUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units /<br>Acre | Unit | Cost / Unit   | Cost /Acre    |
|-------------|-----------------|------|---|---------------|
|             |                 |      | \$  | \$            |
|             |                 |      | <b>Total Fertilizer<br/>Materials<br/>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) | \$107.59        |
| <b>Total Tilling Cost/Acre</b>                   | <b>\$107.59</b> |

**SEEDING**

| Seed Mix                         | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre      |
|----------------------------------|--------------------------------|------------------------|-----------------|
| Indian Ricegrass - Native        | 3.70                           | 11.98                  | \$24.98         |
| Galleta                          | 4.38                           | 15.99                  | \$110.60        |
| Western Wheatgrass - Arriba      | 5.52                           | 13.94                  | \$20.37         |
| Needle and Thread                | 6.06                           | 16.00                  | \$285.30        |
| Globemallow, Scarlet (or copper) | 0.50                           | 5.66                   | \$70.38         |
| Basin Wildrye - Trailhead        | 6.06                           | 24.62                  | \$39.75         |
| <b>Totals Seed Mix</b>           | <b>26.22</b>                   | <b>88.19</b>           | <b>\$551.37</b> |

**Application**

| Description                             | Cost /Acre      |
|---|-----------------|
| Broadcast seeding [DMG]                 | \$261.80        |
| <b>Total Seed Application Cost/Acre</b> | <b>\$261.80</b> |

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

| Description                            | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre    |
|--|-----------------|------|-------------|---------------|
|  |                 |      | \$          | \$            |
| <b>Total Mulch Materials Cost/Acre</b> |                 |      |             | <b>\$0.00</b> |

**Application**

| Description                              | Cost /Acre    |
|--|---------------|
|  | \$            |
| <b>Total Mulch Application Cost/Acre</b> | <b>\$0.00</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: 0.85                      Cost /Acre: \$920.76  
 Estimated Failure Rate: 40%                      Cost /Acre\*: \$920.76  
 \*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$782.65**  
 Reseeding Job Cost: **\$313.06**  
 Total Job Cost: **\$1,096**  
 Job Hours: **8.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **West Side Placer**Permit Action: **App**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **05A**State: **Colorado**Abbreviation: **None**Date: **1/17/2017**County: **Moffat**Filename: **M081-05a**User: **ACY**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:            | \$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/<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 637G                                  | 57.28                     | \$139.29                    | \$125.45                 | 1             | \$264.74                       | \$125.45                      | \$250.00                  |
| Cat D8T - 8U                              | 48.33                     | \$52.86                     | \$117.55                 | 1             | \$170.41                       | \$117.55                      | \$250.00                  |
| Drill/Broadcast<br>Seeder with<br>Tractor | 25.00                     | \$30.65                     | \$88.67                  | 1             | \$119.32                       | \$88.67                       | \$250.00                  |
| Subtotals:                                |                           |                             |                          |               | <b>\$554.47</b>                | <b>\$331.67</b>               | <b>\$750.00</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. | \$33.81                | 1          | \$33.81                     | \$33.81                       |
| Subtotals:                     |                        |            | <b>\$33.81</b>              | <b>\$33.81</b>                |

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: CRAIG  
 Total one-way travel distance: 52.00 miles  
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost \* \$4,284.55  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$63.93  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

|                         | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours):      | 0.95                   | 0.95               |
| Return Time (Hours):    | 0.95                   | 0.95               |
| Loading Time (Hours):   | 0.50                   | NA                 |
| Unloading Time (Hours): | 0.50                   | NA                 |
| Subtotals:              | 2.89                   | 1.89               |

**JOB TIME AND COST**

Total job time: 5.78 Hours

Total job cost: \$4,348



**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization**Site: **West Side Placer**Permit Action: **App**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **05B**State: **Colorado**Abbreviation: **None**Date: **1/17/2017**County: **Moffat**Filename: **M081-05b**User: **ACY**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:            | \$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/<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                     | \$30.65                     | \$88.67                  | 1             | \$119.32                       | \$88.67                       | \$250.00                  |

Subtotals: **\$119.32** **\$88.67** **\$250.00****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. | \$33.81                | 1          | \$33.81                     | \$33.81                       |

Subtotals: **\$33.81** **\$33.81**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: CRAIG  
 Total one-way travel distance: 52.00 miles  
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost \* \$1,131.93  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$63.93  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

|                         | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours):      | 0.95                   | 0.95               |
| Return Time (Hours):    | 0.95                   | 0.95               |
| Loading Time (Hours):   | 0.50                   | NA                 |
| Unloading Time (Hours): | 0.50                   | NA                 |
| Subtotals:              | 2.89                   | 1.89               |

**JOB TIME AND COST**

Total job time: 5.78 Hours

Total job cost: \$1,196