

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215

Denver, Colorado 80203

Phone: (303) 866-3567

FAX: (303) 832-8106



March 16, 2012

Gilbert Lee
Central Aggregates, Inc.
P.O. Box 1877
Rifle, CO
81650

John W. Hickenlooper
Governor

Mike King
Executive Director

Loretta E. Piñeda
Director

RE: West Rifle Pit, Permit No. M-1981-066, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Lee:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed). ***Therefore, pursuant to Section 34-32.5-117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.*** The additional amount needs to be accepted prior to **Wednesday, May 16, 2012**. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be \$40,834.00. This is an increase of \$30,334.00 over the \$10,500.00 currently held by the Division. This estimate is based on conditions observed during the March 8, 2012 inspection.

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 warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, have questions or concerns, please contact me at the DRMS Grand Junction Field Office.

Central Aggregates, Inc.

Page 2 of 2

March 16, 2012

Sincerely,



Dustin Czapla

Environmental Protection Specialist

Department of Natural Resources

Division of Reclamation, Mining and Safety

101 South 3rd, Suite 301

Grand Junction, CO 81501

Phone: (970) 243-6299

Fax: (970) 241-1516

Cc:

Enc: Financial Warranty Cost Estimate

COST SUMMARY WORK

Task description: Reclamation cost summary

Site: West Rifle Pit

Permit Action: March-2012-Review

Permit/Job#: M1981006

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/14/2012

County: Garfield

Filename: M006-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|--------------------------|---|-----------|------------|---------------|--------------------|
| 01a | Remove structures | DEMOLISH | 1 | 24.00 | \$8,808.00 |
| 02a | Pump pit in parcel D to allow for reclamation grading | PUMPING | 1 | 63.37 | \$2,423.00 |
| 03a | Grade banks of pond in parcel D and north bank of lake. | DOZER | 1 | 10.22 | \$2,042.20 |
| 04a | Rip compacted areas (stockpile, parking, etc.) | RIPPER | 1 | 11.98 | \$2,555.00 |
| 05a | Placement of topsoil over disturbed areas | DOZER | 1 | 8.65 | \$1,729.97 |
| 06a | Revegetate disturbed areas | REVEGE | 1 | 10.00 | \$10,946.38 |
| 07a | Mobilize reclamation crew and equipment | MOBILIZE | 1 | 2.32 | \$2,439.91 |
| <u>SUBTOTALS:</u> | | | | 130.54 | \$30,944.46 |

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 57.75
Profit: 10.00

Total = \$625.08

Total = \$324.92

Total = \$3,424.58

Total = \$3,094.45

TOTAL O & P = \$7,469.03

CONTRACT AMOUNT (direct + O & P) = \$38,413.49

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$1,920.67

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$9,889.70

TOTAL BOND AMOUNT (direct + indirect) = \$40,834.00

DEMOLITION WORK

Task description: Remove structures

Site: West Rifle Pit

Permit Action: March-2012-Review

Permit/Job#: M1981006

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 3/14/2012

County: Garfield

Filename: M006-01a

User: DMC

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 102.20 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|-------------------------------|-----------------------------------|---|-----------|------|-----------|------------|
| Office building, L-shaped | 60' x 30' x 8', 20' x 16' x 8' | Bldg. (SN) demo./on-site disposal in excavated pit - Max. 200 ft. push | 14,400.00 | CF | \$0.17 | \$2,462.40 |
| Shop | 60' x 60' x 10' | Bldg. (SN) demo./on-site disposal in excavated pit - Max. 200 ft. push | 36,000.00 | CF | \$0.17 | \$6,156.00 |

Job Hours: 24.00

Subtotal
(unadjusted): \$8,618.40

Total Cost
(adjusted for location): \$8,808.00

PUMPING WORK

Task description: Pump pit in parcel D to allow for reclamation grading

Site: West Rifle Pit

Permit Action: March-2012-Review

Permit/Job#: M1981006

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 3/14/2012

County: Garfield

Filename: M006-02a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

| | Description | Quantity |
|-----------------|------------------------------------|----------|
| Make and Model: | Centrifugal pump - 90M, 6 in. | 1 |
| Attachment 1: | Suction hose - 6 in. diam., 25 ft. | 2 |
| Attachment 2: | Discharge hose - 6 in. D., 25 ft. | 2 |
| Labor Unit 1: | Pump operator | 1 |
| Horsepower: | 65 | |
| Shift Basis: | 1 per day | |
| Weight: | 1.05 | |
| | (US Tons) | |

Cost Breakdown:

| | | Utilization % |
|------------------------|---------|---------------|
| Ownership Cost/Hour: | \$5.76 | NA |
| Operating Cost/Hour: | \$13.06 | 100 |
| Operator Cost/Hour: | \$19.42 | NA |
| Total Unit Cost/Hour: | \$38.24 | |
| Total Fleet Cost/Hour: | \$38.24 | |

PUMPING QUANTITIES

| | | | | |
|------------------------------------|--------------|---------|----------------------------------|-------------|
| Initial Pond Volume: | 20.00 | | Conversion factor: | 325850.5800 |
| Final Pond Volume: | 6,517,011.60 | gallons | | |
| Total Pond Inflow Surface Area: | 8,000 | Sq. ft. | Unit inflow rate in gph/sq. ft.: | 0.1758 |
| Total Pond Inflow Volume per Hour: | 1,406.40 | gallons | | |

Source of estimated volume: Mine maps

PUMPING TIME

| | | |
|----------------------------------|---------|---------------|
| Maximum Pump Capacity: | 90,000 | gph/pump |
| Estimated Suction Head: | 10 | feet |
| Estimated Discharge Head: | 5 | feet |
| Total Head: | 15 | feet |
| CPB Pump Capacity: | 90,000 | gph/pump |
| Site Altitude: | 5,300 | feet |
| Adjusted Pumping Capacity: | 90,000 | gph |
| Initial Unadjusted Pumping Time: | 72.41 | hours |
| Inflow during Initial Pumping: | 101,839 | gallons |
| Net Unadjusted Pumping Time: | 73.54 | Hours |
| Altitude Adjustment Factor: | 0.9400 | (3% rule) |
| Pump Efficiency Factor: | 0.9167 | (55 min./hr.) |
| Total Adjusted Pumping Time: | 63.37 | hours |

JOB TIME AND COST

Total job time: 63.37 Hours

Unit cost: \$0.000366 /Gallon

Total job cost: \$2,423.00

BULLDOZER WORKTask description: Grade banks of pond in parcel D and north bank of lake.Site: West Rifle PitPermit Action: March-2012-ReviewPermit/Job#: M1981006PROJECT IDENTIFICATIONTask #: 03AState: ColoradoAbbreviation: NoneDate: 3/14/2012County: GarfieldFilename: M006-03aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8UHorsepower: 310Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

| | | <u>Utilization %</u> |
|-----------------------|----------|----------------------|
| Ownership Cost/Hour: | \$58.56 | NA |
| Operating Cost/Hour: | \$102.84 | 100 |
| Ripper op. Cost/Hour: | \$0.00 | 0 |
| Operator Cost/Hour: | \$38.49 | NA |

Total unit Cost/Hour: \$199.89Total Fleet Cost/Hour: \$199.89MATERIAL QUANTITIESInitial Volume: 7,408Swell factor: 1.060Loose volume: 7,852 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -15 %Average site altitude: 5,300 feetMaterial weight: 2,900 lbs/LCYWeight description: Sand and gravel - DryJob Condition Correction Factor

| | | <u>Source</u> |
|-----------------------|-------|---------------|
| Operator Skill: | 0.750 | (AVG.) |
| Material consistency: | 0.900 | (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: | 1.329 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.793 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.4724

Adjusted unit production: 768.59 LCY/hr

Adjusted fleet production: 768.59 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.260/LCY

Total job time: 10.22 Hours

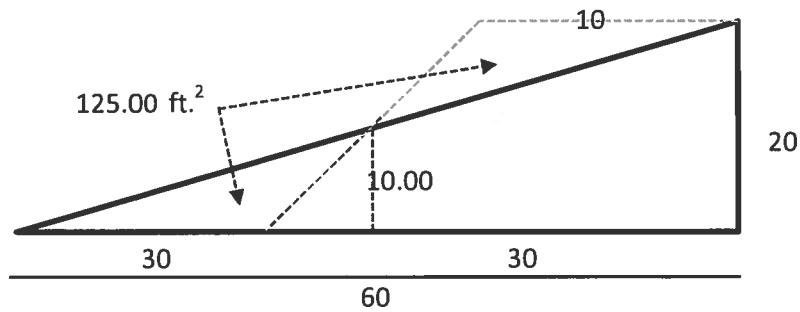
Total job cost: \$2,042.20

POND

Highwall reduction - cut and fill

| | |
|--|----------|
| Highwall Height (ft.) | 20.0 |
| Length of Highwall (ft.) | 1200 |
| ----- Initial Slope | 0.5 H:1V |
| ———— Desired Slope | 3 H:1V |
| Volume of material to be moved (ft. ³) | 150,000 |
| Volume of material to be moved (yd. ³) | 5,556 |

All dimensions measured in feet
Drawing not to scale

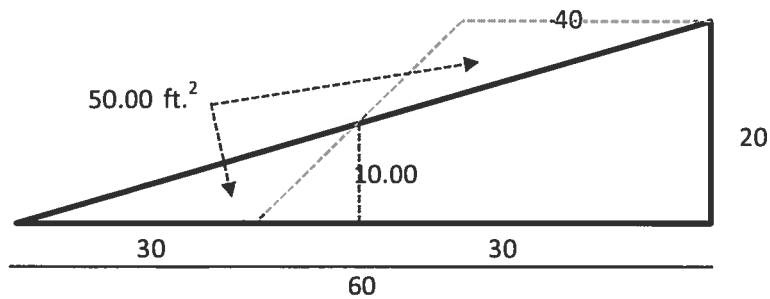


LAKE

Highwall reduction - cut and fill

| | | |
|--|--------|------|
| Highwall Height (ft.) | 20.0 | |
| Length of Highwall (ft.) | 1000 | |
| ----- Initial Slope | 2.0 | H:1V |
| ===== Desired Slope | 3 | H:1V |
| Volume of material to be moved (ft. ³) | 50,000 | |
| Volume of material to be moved (yd. ³) | 1,852 | |

All dimensions measured in feet
Drawing not to scale



BULLDOZER RIPPING WORK

Task description: Rip compacted areas (stockpile, parking, etc.)

Site: West Rifle Pit

Permit Action: March-2012-Review

Permit/Job#: M1981006

PROJECT IDENTIFICATION

Task #: 04A

State: Colorado

Abbreviation: None

Date: 3/14/2012

County: Garfield

Filename: M006-04a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8U

Horsepower: 310

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|-----------------------------|----------|---------------|
| Ownership Cost/Hour: | \$65.28 | NA |
| Operating Cost/Hour: | \$102.84 | 100 |
| Ripper Operating Cost/Hour: | \$6.49 | 100 |
| Operator Cost/Hour: | \$38.49 | NA |
| Total Unit Cost/Hour: | \$213.10 | |
| Total Fleet Cost/Hour: | \$213.10 | |

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY

NA

Area: 7.00 acres

Rip Depth (ft): 2.00

Volume: 22,587

BCY or CCY

Source of estimated quantity: Mine site maps and onsite observations.

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

| | | |
|---------------------------|---------------|------------|
| Average Ripping Depth: | <u>2.56</u> | mph |
| Average Ripping Width: | <u>7.08</u> | degrees |
| Average Ripping Length: | <u>100.00</u> | feet |
| Average Dozer Speed: | <u>88.00</u> | feet |
| Average Maneuver Time: | <u>0.25</u> | feet |
| Production per unit area: | <u>0.703</u> | acres/hour |

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.703 Acres/hr

Site Altitude: 5,300 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.58 Acres/hr

Adjusted Hourly Fleet Production: 0.58 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 11.99 Hours

Unit cost: \$364.994 Per acre Total job cost: \$2,555.00

BULLDOZER WORKTask description: Placement of topsoil over disturbed areasSite: West Rifle PitPermit Action: March-2012-ReviewPermit/Job#: M1981006PROJECT IDENTIFICATIONTask #: 05AState: ColoradoAbbreviation: NoneDate: 3/14/2012County: GarfieldFilename: M006-05aUser: DMCAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8UHorsepower: 310Blade Type: UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

| | | <u>Utilization %</u> |
|-----------------------|----------|----------------------|
| Ownership Cost/Hour: | \$58.56 | NA |
| Operating Cost/Hour: | \$102.84 | 100 |
| Ripper op. Cost/Hour: | \$0.00 | 0 |
| Operator Cost/Hour: | \$38.49 | NA |

Total unit Cost/Hour: \$199.89Total Fleet Cost/Hour: \$199.89MATERIAL QUANTITIESInitial Volume: 12,100Swell factor: 1.000Loose volume: 12,100 LCYSource of estimated volume: 10 ac. @ 9" avg. depthSource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 5,300 feetMaterial weight: 1,600 lbs/LCYWeight description: Top SoilJob Condition Correction FactorOperator Skill: 0.750Material consistency: 1.200Dozing method: 1.000Source

(AVG.)

(CAT HB)

(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: 1,398.08 LCY/hr

Adjusted fleet production: 1398.08 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.143/LCY

Total job time: 8.65 Hours

Total job cost: \$1,729.97

REVEGETATION WORKTask description: Revegetate disturbed areasSite: West Rifle PitPermit Action: March-2012-ReviewPermit/Job#: M1981006**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 3/14/2012County: GarfieldFilename: M006-06aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

| Description | Cost /Acre |
|--|-----------------|
| Chisel plowing {DMG} | \$86.71 |
| Weed control spraying (MEANS 31 31 16.13 3100) | \$145.20 |
| Total Tilling Cost/Acre | \$231.91 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|-------------------------------|--------------------------------|------------------------|----------------|
| Indian Ricegrass - Native | 6.00 | 19.42 | \$39.60 |
| Crested Wheatgrass - Standard | 4.50 | 20.66 | \$9.77 |
| Hard Fescue - Durar | 2.25 | 29.18 | \$4.61 |
| Pubescent Wheatgrass - Luna | 9.00 | 18.60 | \$19.71 |
| Streambank Wheatgrass - Sodar | 6.00 | 19.56 | \$24.72 |
| Totals Seed Mix | 27.75 | 107.42 | \$98.41 |

Application

| Description | Cost /Acre |
|---------------------|------------|
| Drill seeding {DMG} | \$90.11 |

| | |
|---|----------------|
| Total Seed Application Cost/Acre | \$90.11 |
|---|----------------|

MULCHING and MISCELLANEOUS**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|-------------------------|-------------|--------------------|-------------------|
| Herbicide - 2,4D @ 1.0 pt/ac | 1.00 | ACRE | \$1.20 | \$1.20 |
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$164.00 | \$328.00 |
| Total Mulch Materials Cost/Acre | | | | \$329.20 |

Application

| Description | Cost /Acre |
|---|-------------------|
| Crimping, with tractor {DMG survey data} | \$65.89 |
| Weed spray, truck, aquatic area, nox. [DMG] | \$60.19 |
| Total Mulch Application Cost/Acre | \$126.08 |

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: | 10 | Cost /Acre: | \$875.71 |
| Estimated Failure Rate: | 25% | Cost /Acre*: | \$875.71 |
| *Selected Replanting Work Items: | TILLING, SEEDING, MULCHING | | |
| Initial Job Cost: | \$8,757.10 | | |
| Reseeding Job Cost: | \$2,189.28 | | |
| Total Job Cost: | \$10,946.38 | | |
| Job Hours: | 10.00 | | |

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilize reclamation crew and equipmentSite: West Rifle PitPermit Action: March-2012-ReviewPermit/Job#: M1981006**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 3/14/2012County: GarfieldFilename: M006-07aUser: DMCAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER
(25T, 50T, AND 100T)**Cost Breakdown:**

| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour: | \$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/unit | Fleet Size | Haul Trip Cost/hr/ fleet | Return Trip Cost/hr/ fleet | DOT Permit Cost/ fleet |
|--|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Cat D8T - 8U | 53.70 | \$65.28 | \$125.45 | 1 | \$190.73 | \$125.45 | \$250.00 |
| Drill/Broadcast Seeder with Tractor | 25.00 | \$39.59 | \$88.67 | 1 | \$128.26 | \$88.67 | \$250.00 |
| Centrifugal pump - 90M, 6 in. | 1.05 | \$3.18 | \$88.67 | 1 | \$91.85 | \$88.67 | \$250.00 |

Subtotals: **\$410.84** **\$302.79** **\$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 | \$25.30 | 1 | \$25.30 | \$25.30 |

Subtotals: **\$25.30** **\$25.30**

EQUIPMENT HAUL DISTANCE and Time

| | | |
|--|-------|-------|
| Nearest Major City or Town within project area region: | RIFLE | |
| Total one-way travel distance: | 2.00 | miles |
| Average Travel Speed: | 25.00 | mph |

| | |
|-------------------------------------|------------|
| Total Non-Roadable Mob/Demob Cost * | \$2,435.86 |
| * two round trips with haul rig: | |
| Total Roadable Mob/Demob Cost ** | \$4.05 |
| ** one round trip, no haul rig: | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|---------------------------|-----------------------|
| Haul Time (Hours): | 0.08 | 0.08 |
| Return Time (Hours): | 0.08 | 0.08 |
| Loading Time (Hours): | 0.50 | NA |
| Unloading Time (Hours): | 0.50 | NA |
| Subtotals: | 1.16 | 0.16 |

JOB TIME AND COST

| | | |
|-----------------|------|-------|
| Total job time: | 2.32 | Hours |
|-----------------|------|-------|

| | |
|-----------------|------------|
| Total job cost: | \$2,439.91 |
|-----------------|------------|