

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:                    | MINE/PROSPECTING ID#:           | MINERAL:            | COUNTY:           |
|-------------------------------|---------------------------------|---------------------|-------------------|
| Garrett Pit                   | M-1978-271                      | Gravel              | Conejos           |
| <b>INSPECTION TYPE:</b>       | INSPECTOR(S):                   | INSP. DATE:         | INSP. TIME:       |
| Monitoring                    | Wallace H. Erickson             | January 23, 2013    | 10:00             |
| OPERATOR:                     | <b>OPERATOR REPRESENTATIVE:</b> | TYPE OF OPERA       | TION:             |
| Asphalt Gravel Products, Inc. | Roy Burtraw                     | 112c - Construction | Regular Operation |
|                               |                                 |                     |                   |
| <b>REASON FOR INSPECTION:</b> | BOND CALCULATION TYPE:          | BOND AMOUNT:        |                   |
| Normal I&E Program            | Complete Bond                   | \$181,755.00        |                   |
| DATE OF COMPLAINT:            | POST INSP. CONTACTS:            | JOINT INSP. AGE     | NCY:              |
| NA                            | None                            | None                |                   |
| WEATHER:                      | INSPECTOR'S SIGNATURE:          | SIGNATURE DAT       | E:                |
| Clear                         | Wallace H.S.                    | February 1, 2013    |                   |

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

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

## **OBSERVATIONS**

This inspection occurred as part of the Division's routine monitoring program for permitted operations. The Garrett Pit is approved for 80 acres affected lands for the extraction of construction materials. Affected lands will be reclaimed to support rangeland post-mining land use. The Division holds \$181,755 financial warranty. This report is accompanied by five photographs and an updated reclamation cost estimation totaling \$166,408.38.

Public access to the permit area is controled by locked gate and barbed wire fencing. Mining activities were dormant during the inspection. On-site facilities included truck scales, mobile crushers with conveyors, three semi-trailers, one fuel tank and several drums, assumed to be lubricant. Numerous stockpiles of mined and processed materials were located on the pit floor at the west side of the permit area. Approximately 4,300 linear feet of pit highwall has been graded to approximate 3H:1V slope; vegetative cover was protruding above the snow cover for these reclaimed slopes. Approximately 3,000 linear feet of pit highwall appeared active and was near vertical. Reclamation materials were stockpiled above the pit highwalls and available for downhill push after those highwalls have been reduced to 3H:1V. Reclamation materials were also stockpiled on the pit floor and available for redistrabution throughout the pit area. According to the most recent annual report submitted by the Operator, received October 29, 2012, there are approximately 53 acres affected, of which 20 acres have been graded, topsoil replaced and seeded, leaving approximately 33 acres of affected lands not yet reclaimed and an additional 17 acres of pit reserves not yet mined. Site conditions appeared consistent with the descriptions provided by the Operator in the annual report. The Division encourages the Operator to continue its efforts of reclaiming depleted areas as the mining activity advances.

Based on observations made during the inspection and recorded in this report the Division has reviewed the current cost of reclamation totaling \$166,408.38. Please find enclosed 14 pages of summary, drawing, and task sheets utilized by the Division to estimate the current cost of reclamation. Therefore, the existing \$181,755 financial warranty appears sufficient to ensure the completion of reclamation.

No problems or possible violations were observed.

Response to this inspection report should be addressed to Wally Erickson at the Division's office in Durango at 691 County Road 233, Suite A-2, Durango, CO 81301, phone (970) 247-5469.

Inspection Contact Address Rock Southway Asphalt Gravel Products, Inc. 117 White Pine Drive Alamosa, CO 81101

Enclosure: 5 photographs; Reclamation cost estimation totaling \$166,408.38

ec w/enclosure: Russ Means, DRMS GJFO

Garrett Pit M-1978-271 January 23, 2013 View west, taken from the pit floor, showing truck scales in foreground, and processing equipment and numerous material stockpiles in background.





View northwest, showing an active highwall located at the west end of the permit area. The highwall was estimated at 15 feet high and 300 feet long. Reclamation materials were stockpiled above the highwall.

Garrett Pit M-1978-271 January 23, 2013

The highwall was estimated at 20 feet high and 600 feet long. Reclamation materials were View east, showing a highwall located within the southeast quadrant of the permit area. stockpiled above the highwall. Reclaimed portion of the highwall shown in foreground.

Garrett Pit M-1978-271 January 23, 2013 View northeast, showing a highwall located within the pit floor at the east central portion of the permit area. The highwall was estimated at 20 feet high for a distance of approximately 300 feet in length. Reclaimed slopes shown in background.

## COST SUMMARY WORK

| Task descrip     | otion:          | Summary of cost   | for reclam          | ation tasks    |                            |                  |
|------------------|-----------------|-------------------|---------------------|----------------|----------------------------|------------------|
| Site: Garrett I  | Pit             | Per               | mit Action:         | Routine update | Permit/Job#:               | M1978271         |
|                  | <u>IDENTIFI</u> |                   |                     |                |                            |                  |
| Task #:<br>Date: | 000 1/31/2013   | State:<br>County: | Colorado<br>Conejos |                | Abbreviation:<br>Filename: | None<br>M271-000 |
| User:            | WHE             | County.           |                     |                | i nonume.                  | 1412/1-000       |
| Ag               | ency or organ   | ization name: DR  | SMS                 |                |                            |                  |

## TASK LIST (DIRECT COSTS)

| Task | Description   | Form<br>Used | Fleet<br>Size | Task<br>Hours | Cost            |
|------|---|--------------|---------------|---------------|-----------------|
| 001  | Highwall Reduction from 0.5H:1V to 3H:1V                | DOZER        | 1             | 18.84         | \$3,883.43      |
| 002  | Grade & Rip Pit Floor, prepare for topsoil replacement  | DOZER        | ] 1           | 127.81        | \$26,552.30     |
| 003  | Replace Topsoil for 3H:1V Slopes                        | DOZER        | 1             | 5.52          | \$1,131.69      |
| 004  | Carry & Place Vegetation Growth Medium for Pit<br>Floor | LOADER       | 1             | 239.48        | \$24,866.00     |
| 005  | Revegetate 53 acres                                     | REVEGE       | 1             | 40.00         | \$61,432.96     |
| 006  | Haul reclamation equipment to and from job site         | MOBILIZE     | 1             | 3.50          | \$3,854.36      |
|      |   | SUBTO        | DTALS:        | 435.15        | \$ \$121,720.74 |

### **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

| Liability insurance: | 2.02   | Total =                                | \$2,458.76   |
|----------------------|--------|--|--------------|
| Performance bond:    | 1.05   | Total =                                | \$1,278.07   |
| Job superintendent:  | 217.58 | Total =                                | \$14,231.58  |
| Profit:              | 10.00  | Total =                                | \$12,172.07  |
|                      |        | TOTAL O & P =                          | \$30,140.48  |
|                      |        | CONTRACT AMOUNT (direct + $O \& P$ ) = | \$151,861.22 |

#### 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 =            | \$6,454.10   |   |
| Reclamation management and/or administration:        | 5.00          | -                    | \$7,593.06   | - |
| CONTINGENCY:   | 0.00          | Total =              | \$0.00       | _ |
|  | TOTAL I       | NDIRECT COST =       | \$44,687.64  | - |
| TOTAL B  | OND AMOUNT (d | lirect + indirect) = | \$166,408.38 | _ |

## BULLDOZER WORK

| Task description:         | <b>Highwall Reduct</b>   | ion from 0.    | 5H:1V to 3H:1V                              |               |  |
|---------------------------|--------------------------|----------------|---|---------------|--|
| te: Garrett Pit           | Perr                     | nit Action:    | Routine update                              | Permit/Job#:  | M1978271                               |
| PROJECT IDENTIF           | ICATION                  |                |   |               |  |
| Task #: 001               | State:                   | Colorado       |   | Abbreviation: | None                                   |
| Date: 1/31/2013           | County:                  | Conejos        |   | Filename:     | M271-001                               |
| User: WHE                 |                          |                |   | -             |  |
| Agency or orga            | nization name: <u>DR</u> | MS             |   |               | ······································ |
| HOURLY EQUIPME            | ENT COST                 |                |   |               |  |
| Basic Machine: Cat        | t D8T - 8U               |                |   |               |  |
| Horsepower: 310           | )                        |                |   |               |  |
| Blade Type: Un            | iversal                  |                |   |               |  |
| Attachment: 3-s           | hank ripper              |                |   |               |  |
| Shift Basis: 1 p          | er day                   |                |   |               |  |
| Data Source: (CH          | RG)                      |                |   |               |  |
| Cost Breakdown:           |                          |                |   |               |  |
| COSt Dieakdown.           |                          |                | Utilization %                               |               |  |
| Ownership Cost/Hour:      | \$63.00                  |                | NA  |               |  |
| Operating Cost/Hour:      | \$104.06                 |                | 100   |               |  |
| Ripper op. Cost/Hour:     | \$1.63                   |                | 25  |               |  |
| Operator Cost/Hour:       | \$37.41                  |                |   |               |  |
| Operator Cost/Hour.       | \$57.41                  |                | NA  |               |  |
| Total unit Cost/Hour:     | \$206.11                 |                |   |               |  |
| Total Fleet Cost/Hour:    | \$206.11                 |                |   |               |  |
|                           |                          |                |   |               |  |
| MATERIAL QUANT            | <u>'ITIES</u>            |                |   |               |  |
| Initial Volume: 14,0      | 00                       |                |   |               |  |
| Swell factor: 1.00        |                          |                |   |               |  |
|                           | 00 LCY                   |                |   |               |  |
|                           |                          | -              | r samesa atta 1822 atastronak ita ruta sast |               |  |
| Source of estimated volum |                          | ed drawing,    | "Highwall Reduction "                       |               |  |
| Source of estimated swell | l factor: NA             |                |   |               |  |
|                           |                          |                |   |               |  |
| HOURLY PRODUCT            | <u>FION</u>              |                |   |               |  |
| Average push distance:    | 50 feet                  |                |   |               |  |
| Unadjusted hourly produc  |                          | /hr            |   |               |  |
| enaujustea nourij produk  |                          | / 111          |   |               |  |
| Materials consistency des | cription: Compac         | ted fill or er | mbankment 0.9                               |               |  |
| Average push gradient:    | -15 %                    |                |   |               |  |
| Average site altitude:    | 7,750 feet               |                |   |               |  |
| The stage size and added  |                          |                |   |               |  |
| Material weight:          | 3,300 lbs/LCY            |                |   | _             |  |
| Weight description:       | Decomposed rock -        | 75% Rock,      | 25% Earth                                   |               |  |
| Job Condition Correction  | Factor                   |                | Source                                      |               |  |
| Operator S                |                          | /50            | (AVG.)                                      |               |  |
| Material consiste         |                          | 000            | (CAT HB))                                   |               |  |
| Dozing met                |                          |                | (50% SL)                                    |               |  |
| 5                         | 10 <del></del>           |                |   |               |  |

| 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:           | 0.697         | (CAT HB)      |
| Blade type:                | 1.000         | (PAT)         |
| Net correction:            | 0.4567        |               |
| Adjusted unit production:  | 743.05 LCY/hr |               |
| Adjusted fleet production: | 743.05 LCY/hr |               |

## JOB TIME AND COST

| Fleet size: | 1 Dozer(s)  |  |
|-------------|-------------|--|
| Unit cost:  | \$0.277/LCY |  |

| Total job time: | 18.84 Hours |
|-----------------|-------------|
| Total job cost: | \$3,883.43  |

Material Quartity = 189,000 58. At. × 0.5 D 1/31/13 WHE M-1978-271 Scale 1"=6' Topsoil Replacement for SH: IV slopes Garrett Pit 94, Soo euft = 3,500 cy Arex. = 3000'L x 63'W = 189,000 sg ft Pit Floor 11 Engl Sope Highwall Reduction from O.SH: IV to 3H: IV 19h wall 0.2 Area 2= bxh = 31.5' x 2 = 126 sg. ft. Material Quantity = 3,000 L × 126 sg. ft = 378,000 ev ft = 14,000 cy Length of highwall = 3,000'L 0

## BULLDOZER WORK

| Task description:        | scription: Grade & Rip Pit Floor, prepare for topsoil replacement |                  |                       |  |          |
|--------------------------|---|------------------|-----------------------|--|----------|
| e: Garrett Pit           | Perr  | nit Action:      | Routine update        | Permit/Job#:                                   | M1978271 |
| PROJECT IDENTI           | FICATION  |                  |                       |  |          |
| Task #: 002              | State:  | Colorado         |                       | Abbreviation:                                  | None     |
| Date: 1/31/2013          | B County:   | Conejos          |                       | Filename:                                      | M271-002 |
| User: WHE                |   |                  |                       |  |          |
| A general or org         | anization name: DR  | MS               |                       |  |          |
| Agency of org            |   | 1415             |                       |  |          |
| HOURLY EQUIPM            | ENT COST  |                  |                       |  |          |
| Basic Machine:Ca         | at D8T - 8U   |                  |                       |  |          |
| Horsepower: 31           | 10  |                  |                       |  |          |
|                          | niversal  |                  |                       |  |          |
| Attachment: 3-           | shank ripper  |                  |                       |  |          |
| Shift Basis: 1           | per day   |                  |                       |  |          |
| Data Source: (C          | CRG)  |                  |                       |  |          |
| Cost Breakdown:          |   |                  |                       |  |          |
| COSt DIGUNUO WIL         |   |                  | Utilization %         |  |          |
| Ownership Cost/Hour:     | \$63.00   |                  | NA                    |  |          |
| Operating Cost/Hour:     |   |                  | 100                   |  |          |
| Ripper op. Cost/Hour:    |   | C. I. 477, 900 0 | 50                    |  |          |
| Operator Cost/Hour:      |   |                  |                       |  |          |
| Operator Cost/Hour.      |   |                  | NA                    |  |          |
| Total unit Cost/Hour:    | \$207.75  |                  |                       |  |          |
| Total Fleet Cost/Hour:   | \$207.75  |                  |                       |  |          |
| MATERIAL OILAN           |   |                  |                       |  |          |
| MATERIAL QUAN            | IIIES   |                  |                       |  |          |
| Initial Volume: 46,      | 141   |                  |                       |  |          |
| Swell factor: 1.0        | 00  |                  |                       |  |          |
| Loose volume: 46,        | 141 LCY   |                  |                       |  |          |
| Source of estimated volu | (29 6 a a) (4   | 2560af(aa)(      | 12D)/27 = 46.141      |  |          |
| Source of estimated von  |   | 5500s1/ac)(      | 1'D) / 27 = 46,141 cy |  |          |
| Source of estimated swe  |   |                  |                       |  |          |
|                          | TAN   |                  |                       |  |          |
| HOURLY PRODUC            | TION  |                  |                       |  |          |
| Average push distance:   | 75 feet   |                  |                       |  |          |
| Unadjusted hourly produ  |   | /hr              |                       |  |          |
| 0 J                      |   |                  |                       |  |          |
| Materials consistency de | escription: Compac  | ted fill or en   | mbankment 0.9         |  |          |
| ·                        | ·   |                  |                       |  |          |
| Average push gradient:   | 0 %   |                  |                       |  |          |
| Average site altitude:   | 7,750 feet  |                  |                       |  |          |
|                          |   |                  |                       |  |          |
| Material weight:         | 3,300 lbs/LCY   |                  |                       |  |          |
| Weight description:      | Decomposed rock -   | 75% Rock         | 25% Earth             | 20m - 20                                       |          |
| Job Condition Correction | 0   | , 0, 100K,       | Source                | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2          |          |
| Operator                 |   | 50               | (AVG.)                |  |          |
| Material consis          |   | 00               | (CAT HB))             | <u> </u>                                       |          |
| Dozing m                 |   | 000              | (GEN.)                |  |          |
| Dozing m                 | <u> </u>  |                  |                       | <u>10 -                                   </u> |          |

| Visibili          | ity:    | 1.000  | (AVG.)        |
|-------------------|---------|--------|---------------|
| Job efficien      | cy:     | 0.830  | (1 SHIFT/DAY) |
| Spoil p           | ile:    | 0.800  | (FND-RF)      |
| Push gradie       | ent:    | 1.000  | (CAT HB)      |
| Altitu            | de:     | 1.000  | (CAT HB)      |
| Material Weig     | ht:     | 0.697  | (CAT HB)      |
| Blade ty          | pe:     | 1.000  | (PAT)         |
| Net correction    | on: 0.3 | 124    |               |
| unit production:  | 361.01  | LCY/hr |               |
| fleet production: | 361.01  | LCY/hr |               |
|                   |         |        |               |

## JOB TIME AND COST

Adjusted Adjusted

| Fleet size: | 1 Dozer(s)  |  |
|-------------|-------------|--|
| Unit cost:  | \$0.575/LCY |  |

| Total job time: | 127.81 Hours |  |
|-----------------|--------------|--|
| Total job cost: | \$26,552.30  |  |

## BULLDOZER WORK

| WHE         Task #:       003       County:       Colorado       Abbreviation:       None         Date:       1/131/2013       County:       Conejos       Filename:       M271-003         User:       WHE       ME       M271-003       M271-003         Just:       WHE       M271-003       M271-003         Source:       Organization name:       DRMS       DRMS         COULY POUPMENT COST         Basic Machine:       Cat D8T - 8U       Horsepower       310         Black Type:       Universal       Anachme:       Source         Andonhem:       3-shank ripper       Source       Source         Shift Basis:       1 per day       Date       Oo         Ownership Cost/Hour:       \$104.06       100         Operating Cost/Hour:       \$20.65       10         Operator Cost/Hour:       \$205.13       Source         otal unit Cost/Hour:       \$205.13       Source         otal unit Cost/Hour:       \$3.500       Svell factor:       1.000         Swell factor:       1.000       Intervalue       Strate Strate         Loose volume:       3.500       Intervalue       Strate         Swell  |   | lit   | Pe  | ermit Action:               | Routine update                | Permit/Job#: | M1978271 |
|--|---|---|---|-----------------------------|-------------------------------|--------------|----------|
| Task #:       003       State:       Colorado       Abbreviation:       None         Date: $1/31/2013$ County:       Conejos       Filename:       M271-003         User:       WHE       ME       M271-003       M271-003         Agency or organization name:       DRMS <b>COURLY EQUIPMENT COST</b> Basic Machine:       Cat D8T - 8U         Horsepower       310         Blade Type:       Universal         Attachment:       3-Shank ripper         Shift Basis:       1 per day         Data Source:       (CKG)         Ownership Cost/Hour:       \$63.00         Noperating Cost/Hour:       \$37.41         NA       Operator Cost/Hour:         \$205.13       Mathemet         Initial Volume:       3,500         Swell factor:       1.000         Loose volume:       3,500 LCY         Durce of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         Dource of estimated swell factor:       NA         OSURLY PRODUCTION       931.6 LCY/hr         Verage push distance:       100 feet         anadjusted hourly production:       931.6 LCY/hr         aterials consistency description  |   |   | CARLON  |                             |                               |              |          |
| Date:       131/2013       County:       Conejos       Filename:       M271-003         Agency or organization name:       DRMS         IOURLY EQUIPMENT COST         Basic Machine:       Cat D87 - 8U         Horsepower:       10         Blade Type:       Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         ost Breakdown:       000         Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$63.05       10         Operator Cost/Hour:       \$205.13       0.65         Intital Volume:       3,500       10         Swell factor:       1.000       100         Loose volume:       3,500       NA         obace of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       100         swell factor:       1.000       NA       100         Loose volume:       3,500       S00       NA         OURLY PRODUCTION       931.6 LCY/hr       1.00       1.00         verage ush distance:       1.00 foet       1.00       1.00         verage sit altitude:       7.750 feet       1.00  |   |   | ICATION   |                             |                               |              |          |
| User: $WHE$<br>Agency or organization name: DRMS<br><b>COURLY EQUIPMENT COST</b><br>Basic Machine: Cat D&T - &U<br>Horsepower: 310<br>Blade Type: Universal<br>Attachmel: 3-shank ripper<br>Shift Basis: 1 per day<br>Data Source: (CRG)<br>Ownership Cost/Hour: \$63.00 NA<br>Operating Cost/Hour: \$63.00 NA<br>Operating Cost/Hour: \$63.00 NA<br>Operating Cost/Hour: \$31.41 NA<br>Odal unit Cost/Hour: \$205.13<br>otal Piet Cost/Hour: \$205.13<br>IATERHAL OUANTITIES<br>Initial Volume: 3,500<br>Swell factor: 1.000<br>Loose volume: 3,500<br>Loose volume: 3,500<br>Swell factor: 1.000<br>Loose volume: 3,500<br>CVTLLY PRODUCTION<br>verage push distance: 100 feet<br>nadjusted hourly production: 931.6 LCY/hr<br>iaterials consistency description: Consolidated stockpile 1.0<br>verage push gradient: -25 %<br>7,750 feet<br>iaterial weight: 2,550 lbs/LCY<br>'eight description: Earth - Dry packed<br>b Condition Correction Factor: 1.000<br>(AVG.)<br>Material consistency: 1.000<br>(CAT HB)   |   |   |   |                             |                               |              |          |
| Agency or organization name:       DRMS <b>DUTEX FOUTPMENT COST</b> Basic Machine:       Cat D8T - 8U         Horsepower       310         Blade Type:       Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         obst Breakdown:  |   |   | County:   | Conejos                     |                               | Filename:    | M271-003 |
| IOURLY EQUIPMENT COST         Basic Machine: Cat D8T - 8U         Horsepower: 310         Blade Type:       Universal         Attachment:       3-shank ripper         Shift Basis:       Iper day         Data Source:       (CRG)         Sort Breakdown:       0         Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$37.41       NA         otal unit Cost/Hour:       \$205.13       10         otal Inf Cost/Hour:       \$205.13       10         otal Inf Cost/Hour:       \$205.13       10         stal Fleet Cost/Hour:       \$205.13       10         object Cost/Hour:       \$205.13       10         stal Fleet Cost/Hour:       \$3.00       10         source of estimated volume:       (3000°L)(63°W)(0.5°D) / 27 = 3,500 cy         source of estimated swell factor:       NA         (OURLY PRODUCTION         verage push distance:       100 feet         adjusted hourly production:       931.6 LCY/hr         laterials consistency description:       Consolidated stockpile 1.0         verage sita altitude:       7,750 feet  | User:   | WHE   |   |                             |                               |              |          |
| Basic Machine:       Cat D8T - 8U         Horsepower:       310         Blade Type:       Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         oxt Breakdown:       (CRG)         Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$205.13       0         otal Init Cost/Hour:       \$205.13       0         otal Init Cost/Hour:       \$205.13       0 <b>EXTERIAL QUANTITIES</b> 1000       0         Initial Volume: $3,500$ Sool LCY         ource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       0         ource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       0         ource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       0         ource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       0         ource of estimated swell factor:       NA       0         OURLY PRODUCTION       931.6 LCY/hr       0         verage sub distance:       100 feet       0         aterial weight: <t< td=""><td>Age</td><td>ency or organ</td><td>nization name:</td><td>DRMS</td><td></td><td></td><td></td></t<>   | Age   | ency or organ   | nization name:  | DRMS                        |                               |              |          |
| Horsepower:310Blade Type:UniversalAttachment:3-shank ripperShift Basis:1 per dayData Source:(CRG)Ownership Cost/Hour:\$63.00NA0perating Cost/Hour:Stot Breakdown:100Ownership Cost/Hour:\$63.00Na100Operator Cost/Hour:\$104.06Operator Cost/Hour:\$205.13Otal unit Cost/Hour:\$205.13Intrial Volume:3,500337.41NANAotal If left Cost/Hour:\$205.13100Intrial Volume:3,500100Swell factor:1.000Loose volume:3,500Swell factor:NAOURLY PRODUCTIONverage push distance:100 feet931.6 LCY/hraterials consistency description:Consolidated stockpile 1.0verage site altitude:7,750 feetaterial weight:2,550 lbs/LCY/* eight description:Earth - Dry packedb Condition Correction Factor:SourceOperator Skill:0.7550(AVG.)(AVG.)  | IOURLY  | EQUIPME   | NT COST   |                             |                               |              |          |
| Blade Type:       Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         ost Breakdown:       Utilization %         Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$37.41       NA         Operator Cost/Hour:       \$205.13       0         otal Fleet Cost/Hour:       \$205.13       0         otal Fleet Cost/Hour:       \$205.13       0         Swelf factor:       1.000       0         Loose volume:       3,500       CY         Swelf factor:       1.000       0         Loose volume:       3,500 LCY       0         Source of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       0         Source of estimated swell factor:       NA       0         NA       0       931.6 LCY/hr       0         aterials consistency description:       Consolidated stockpile 1.0       0         verage push distance:       100 feet       0       0         raterial weight:       2,550 lbs/LCY       0       0         verage wite altitude:   | Basic Ma  | chine: Cat  | D8T - 8U  |                             |                               |              |          |
| Attachment: $3-shank ripper$ Iper day       Iper day         Data Source:       (CRG)         ost Breakdown:       Utilization %         Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$0.65       10         Operator Cost/Hour:       \$205.13       0         otal unit Cost/Hour:       \$205.13       0         staff Peet Cost/Hour:       \$205.13       0         Initial Volume:       3,500       Swell factor:       1.000         Loose volume: $3,500$ Swell factor:       NA         Durce of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy       0         Durce of estimated swell factor:       NA       NA         OURLY PRODUCTION       Verage push distance:       100 feet         verage push distance:       100 feet       0         931.6 LCY/hr       10       10         verage site altitude:       7,750 feet       0         iaterial weight:       2,550 lbs/LCY       10         Verage site altitude:       7,750 feet       0         iaterial weight:       2,550 lbs/LCY       1000  | Horsep  | ower: 310   |   |                             |                               |              |          |
| Shift Basis: 1 per day         Data Source: (CRG)         Ownership Cost/Hour: \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$0.65       10         Operator Cost/Hour:       \$205.13       NA         otal unit Cost/Hour:       \$205.13       0         Intitial Volume: \$205.13         Internation (Gamma Context)         Swell factor:       1.000         Loose volume:       3,500 LCY         Dource of estimated volume: (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         Dource of estimated volume: (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         Dource of estimated swell factor: NA         OURLY PRODUCTION         verage push distance: 100 feet         madjusted hourly production:       931.6 LCY/hr         laterials consistency description:       Consolidated stockpile 1.0         verage site altitude:   | Blade '   | Type: Uni   | versal  |                             |                               |              |          |
| Data Source: $(CRG)$ iost Breakdown:       Utilization %         Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$0.65       10         Operator Cost/Hour:       \$\$205.13       0         Otal unit Cost/Hour:       \$\$205.13       0         IATERIAL QUANTITIES         Initial Volume:       3,500         Swell factor:       1.000         Loose volume:       3,500 LCY         Dource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         Dource of estimated swell factor:       NA         NA  | Attach  | ment: 3-sl  | nank ripper   |                             |                               |              |          |
| Interview of the second seco | Shift J   | Basis: 1 pe   | er day  |                             |                               |              |          |
| Utilization %<br>NA<br>Operating Cost/Hour:\$63.00NA<br>NA<br>100Ripper op. Cost/Hour:\$104.06100Ripper op. Cost/Hour:\$20.6510Operator Cost/Hour:\$205.13otal unit Cost/Hour:\$205.13stal Fleet Cost/Hour:\$205.13Initial Volume:3,500Swell factor:1.000Loose volume:3,500Loose volume:3,500Swell factor:1.000Loose volume:(3000'L)(63'W)(0.5'D) / 27 = 3,500 cyDource of estimated volume:(3000'L)(63'W)(0.5'D) / 27 = 3,500 cyDource of estimated swell factor:NAIntial VRODUCTIONverage push distance:100 feetverage push distance:100 feet931.6 LCY/hrIaterials consistency description:Consolidated stockpile 1.0verage site altitude:7,750 feetiaterial weight:2,550 lbs/LCY'eight description:Earth - Dry packedb Condition Correction FactorSourceOperator Skill:0.750Material consistency1.000(CAT HB)   | Data Sc   | ource: (CR  | (G)   |                             |                               |              |          |
| Utilization %<br>NA<br>Operating Cost/Hour:\$63.00NA<br>NA<br>100Ripper op. Cost/Hour:\$104.06100Ripper op. Cost/Hour:\$20.6510Operator Cost/Hour:\$205.13otal unit Cost/Hour:\$205.13stal Fleet Cost/Hour:\$205.13Intrial Volume:3,500Swell factor:1.000Loose volume:3,500Loose volume: $(3000^{\circ}L)(63^{\circ}W)(0.5^{\circ}D) / 27 = 3,500 \text{ cy}$ burce of estimated volume: $(3000^{\circ}L)(63^{\circ}W)(0.5^{\circ}D) / 27 = 3,500 \text{ cy}$ burce of estimated swell factor:NAIOURLY PRODUCTIONverage push distance:100 feetverage push distance:100 feet931.6 LCY/hrlaterials consistency description:Consolidated stockpile 1.0verage site altitude: $-25 \%$ 7,750 feetlaterial weight:2,550 lbs/LCYleight description:Earth - Dry packedb Condition Correction FactorSourceOperator Skill:0.750Material consistency:1.000Interials0.750Interials(AVG.)   | ost Breakdo   | own:  |   |                             |                               |              |          |
| Ownership Cost/Hour:       \$63.00       NA         Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$37.41       NA         Operator Cost/Hour:       \$205.13       0         ATTERIAL QUANTITIES         Initial Volume: $3,500$ Swell factor:       1.000         Loose volume: $3,500$ Swell factor:       1.000         Loose volume: $3,500$ LCY         Dource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         Durce of estimated swell factor:       NA         IOURLY PRODUCTION         Verage push distance:         nadjusted hourly production:       25 %         verage site altitude:       7,750 feet         aterial weight:       2,550 lbs/LCY         'eight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Sol Divandi   |   |   |                             | Utilization %                 |              |          |
| Operating Cost/Hour:       \$104.06       100         Ripper op. Cost/Hour:       \$0.65       10         Operator Cost/Hour:       \$37.41       NA         otal unit Cost/Hour:       \$205.13   | Ownership   | Cost/Hour:  | \$63.0  | 0                           |                               |              |          |
| Ripper op. Cost/Hour:       \$0.65       10         Operator Cost/Hour:       \$37.41       NA         otal unit Cost/Hour:       \$205.13         tal Fleet Cost/Hour:       \$205.13         IATERIAL QUANTITIES         Initial Volume:       3,500         Swell factor:       1.000         Loose volume:       3,500 LCY         ource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         ource of estimated swell factor:       NA         IOURLY PRODUCTION       Yeage push distance:         verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         iaterial weight:       2,550 lbs/LCY         reight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000         UCY/HT       000   |   |   |   |                             |                               | C            |          |
| Operator Cost/Hour:       \$37.41       NA         otal unit Cost/Hour: $$205.13$ otal Fleet Cost/Hour: $$205.13$ IATERIAL QUANTITIES         Initial Volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500$ LCY         Dource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500 \text{ ey}$ Dource of estimated swell factor:       NA         NA         (OURLY PRODUCTION         verage push distance:       100 feet         nadjusted hourly production: $931.6$ LCY/hr         laterials consistency description:       Consolidated stockpile 1.0         verage push gradient: $-25 \%$ verage site altitude: $7,750$ feet         vareage site altitude: $2,550$ lbs/LCY         'eight description:       Earth - Dry packed         bb Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $1.000$   |   |   |   |                             |                               |              |          |
| otal unit Cost/Hour: $$205.13$ otal Fleet Cost/Hour: $$205.13$ IATERIAL QUANTITIES         Initial Volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500$ LCY         pource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500 cy$ pource of estimated swell factor:       NA         IOURLY PRODUCTION       verage push distance:         verage push distance: $100$ feet         madjusted hourly production: $931.6$ LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient: $-25 \%$ verage site altitude: $7,750$ feet         faterial weight: $2,550$ lbs/LCY         reight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $1.000$  |   |   |   |                             |                               |              |          |
| otal Fleet Cost/Hour:       \$205.13         IATERIAL QUANTITIES         Initial Volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500$ LCY         Dource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500 cy$ Dource of estimated swell factor: $NA$ IOURLY PRODUCTION       NA         verage push distance:       100 feet         nadjusted hourly production: $931.6$ LCY/hr         faterials consistency description:       Consolidated stockpile 1.0         verage push gradient: $-25 \%$ 7,750 feet  | Operator  | Cost/110ul.   | <del>۵</del> ٫/. <del>۱</del>   | 1                           | NA                            |              |          |
| IATERIAL QUANTITIES         Initial Volume: 3,500         Swell factor: 1.000         Loose volume: 3,500 LCY         bource of estimated volume: (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         bource of estimated swell factor: NA         OURLY PRODUCTION         Verage push distance: 100 feet         nadjusted hourly production: 931.6 LCY/hr         Iaterials consistency description: Consolidated stockpile 1.0         verage push gradient: -25 %         verage site altitude: 7,750 feet         iaterial weight: 2,550 lbs/LCY         reight description: Earth - Dry packed         b Condition Correction Factor. Operator Skill: 0.750 (AVG.)         Material consistency: 1.000 (CAT HB)   | otal unit Co  | ost/Hour:   | \$205.13  |                             |                               |              |          |
| IATERIAL QUANTITIES         Initial Volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500 LCY$ bource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500 cy$ bource of estimated swell factor: $NA$ OURLY PRODUCTION         Verage push distance: $100$ feet         nadjusted hourly production: $931.6 LCY/hr$ Laterials consistency description: Consolidated stockpile 1.0         verage push gradient: $-25 \%$ verage site altitude: $7,750$ feet         laterial weight: $2,550$ lbs/LCY         reight description: Earth - Dry packed         b Condition Correction Factor.       Source         Operator Skill: 0.750       (AVG.)         Material consistency: 1.000       (CAT HB)   | otal Fleet C  | Cost/Hour:  |   |                             |                               |              |          |
| Initial Volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500$ LCY         pource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500$ cy         pource of estimated swell factor:       NA <b>COURLY PRODUCTION</b> verage push distance: $100$ feet         nadjusted hourly production: $931.6$ LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient: $-25 \%$ verage site altitude: $7,750$ feet         iaterial weight: $2,550$ lbs/LCY         reight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $1.000$  |   |   |   |                             |                               |              |          |
| Initial Volume: $3,500$ Swell factor: $1.000$ Loose volume: $3,500$ LCY         pource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500$ cy         pource of estimated swell factor:       NA <b>COURLY PRODUCTION</b> verage push distance: $100$ feet         nadjusted hourly production: $931.6$ LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient: $-25 \%$ verage site altitude: $7,750$ feet         iaterial weight: $2,550$ lbs/LCY         reight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $1.000$  | IATERIA   | LOUANT  | ITIES   |                             |                               |              |          |
| Swell factor: $1.000$ Loose volume: $3,500$ LCY         ource of estimated volume: $(3000'L)(63'W)(0.5'D) / 27 = 3,500$ cy         ource of estimated swell factor:       NA         IOURLY PRODUCTION       NA         Verage push distance: $100$ feet         nadjusted hourly production: $931.6$ LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient: $-25 \%$ verage site altitude: $7,750$ feet         vareage site altitude: $2,550$ lbs/LCY         Veright description:       Earth - Dry packed         bb Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $1.000$  |   |   |   |                             |                               |              |          |
| Loose volume:       3,500 LCY         pource of estimated volume:       (3000'L)(63'W)(0.5'D) / 27 = 3,500 cy         pource of estimated swell factor:       NA         IOURLY PRODUCTION         verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         iaterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  | T '.' 1 TT 1  | ime: 3.500  |   |                             |                               |              |          |
| purce of estimated volume: $(3000^{\circ}L)(63^{\circ}W)(0.5^{\circ}D) / 27 = 3,500 \text{ cy}$ purce of estimated swell factor:       NA         IOURLY PRODUCTION         verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         faterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         faterial weight:       2,550 lbs/LCY         reight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Initial Volu  |   |   |                             |                               |              |          |
| burce of estimated swell factor:       NA         IOURLY PRODUCTION         verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         Iaterial weight:       2,550 lbs/LCY         //eight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  |   |   | )   |                             |                               |              |          |
| burce of estimated swell factor:       NA         IOURLY PRODUCTION         verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         Iaterial weight:       2,550 lbs/LCY         //eight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  | Swell fac   | ctor: 1.000   |   |                             |                               |              |          |
| OURLY PRODUCTION         verage push distance: 100 feet  | Swell fac<br>Loose volu   | ctor: 1.000<br>ime: 3,500   | ) LCY   | )(63'W)(0.5'                | (-)/27 - 3.500  av            |              |          |
| verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         7,750 feet       7,750 feet         Iaterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  | Swell fac<br>Loose volu<br>ource of est   | ctor: 1.000<br>ime: 3,500<br>imated volum   | ) LCY<br>ne: (3000'L  | .)(63'W)(0.5')              | D) / 27 = 3,500 cy            |              |          |
| verage push distance:       100 feet         nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         7,750 feet       7,750 feet         Iaterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  | Swell fac<br>Loose volu<br>ource of est   | ctor: 1.000<br>ime: 3,500<br>imated volum   | ) LCY<br>ne: (3000'L  | .)(63'W)(0.5')              | D) / 27 = 3,500 cy            |              |          |
| nadjusted hourly production:       931.6 LCY/hr         Iaterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         Iaterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  | Swell fac<br>Loose volu<br>ource of est<br>ource of est   | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell   | D LCY<br>ne: (3000'L<br>factor: NA  | .)(63'W)(0.5')              | D) / 27 = 3,500 cy            |              |          |
| Laterials consistency description:       Consolidated stockpile 1.0         verage push gradient:       -25 %         verage site altitude:       7,750 feet         Laterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         b Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000  | Swell fac<br>Loose volu<br>ource of est<br>ource of est   | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell   | D LCY<br>ne: (3000'L<br>factor: NA  | .)(63'W)(0.5')              | D) / 27 = 3,500 cy            |              |          |
| verage push gradient:       -25 %         verage site altitude:       7,750 feet         laterial weight:       2,550 lbs/LCY         leight description:       Earth - Dry packed         bb Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Swell fac<br>Loose volu<br>ource of est<br>ource of est   | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell<br><b>PRODUCT</b><br>n distance:  | D LCY<br>ne: (3000'L<br>factor: NA<br>TION<br>100 feet  | .)(63'W)(0.5')              | D) / 27 = 3,500 cy            |              |          |
| verage push gradient:       -25 %         verage site altitude:       7,750 feet         laterial weight:       2,550 lbs/LCY         leight description:       Earth - Dry packed         bb Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Swell fac<br>Loose volu<br>ource of est<br>ource of est   | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell<br><b>PRODUCT</b><br>n distance:  | D LCY<br>ne: (3000'L<br>factor: NA<br>TION<br>100 feet  |                             | D) / 27 = 3,500 cy            |              |          |
| verage site altitude:       7,750 feet         Iaterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         bb Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>(OURLY 1</b><br>verage push<br>nadjusted h  | tor: 1.000<br>ime: 3,500<br>imated volur<br>imated swell<br>PRODUCT<br>n distance:<br>ourly produc  | LCY         ne:       (3000'L         factor:       NA         'ION         tion:       931.6 LCY   |                             | D) / 27 = 3,500 cy            |              |          |
| verage site altitude:       7,750 feet         Iaterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed         bb Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>(OURLY 1</b><br>verage push<br>nadjusted h  | tor: 1.000<br>ime: 3,500<br>imated volur<br>imated swell<br>PRODUCT<br>n distance:<br>ourly produc  | LCY           ne:         (3000'L           factor:         NA           TON           tion:         931.6 LCY  | <i>č/</i> hr                |                               |              |          |
| Laterial weight:       2,550 lbs/LCY         Veight description:       Earth - Dry packed <u>b Condition Correction Factor</u> Source         Operator Skill:       0.750         Material consistency:       1.000  | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>COURLY</b><br>verage push<br>nadjusted h  | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell<br>PRODUCT<br>n distance:<br>ourly produc   | LCY         ne:       (3000'L         factor:       NA         TON         tion:       100 feet         931.6 LCY         cription:       Conso   | <i>č/</i> hr                |                               |              |          |
| Veight description:       Earth - Dry packed         ab Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>COURLY</b><br>verage push<br>nadjusted h<br>faterials con<br>verage push  | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell<br><b>PRODUCT</b><br>n distance:<br>ourly product<br>nsistency descent<br>n gradient:   | LCY         ne:       (3000'L         factor:       NA         'ION         tion:       931.6 LCY         cription:       Conso         -25 %   | <i>č/</i> hr                |                               |              |          |
| Veight description:       Earth - Dry packed         ab Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       1.000   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>COURLY</b><br>verage push<br>nadjusted h<br>faterials con<br>verage push  | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell<br><b>PRODUCT</b><br>n distance:<br>ourly product<br>nsistency descent<br>n gradient:   | LCY         ne:       (3000'L         factor:       NA         'ION         tion:       931.6 LCY         cription:       Conso         -25 %   | <i>č/</i> hr                |                               |              |          |
| b Condition Correction Factor     Source       Operator Skill:     0.750     (AVG.)       Material consistency:     1.000     (CAT HB)   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>COURLY</b><br>verage push<br>nadjusted h<br>faterials con<br>verage push  | ctor: 1.000<br>ime: 3,500<br>imated volum<br>imated swell<br><b>PRODUCT</b><br>n distance:<br>ourly product<br>nsistency descent<br>n gradient:   | LCY         ne:       (3000'L         factor:       NA         'ION         tion:       931.6 LCY         cription:       Conso         -25 %   | <i>č/</i> hr                |                               |              |          |
| Operator Skill:0.750(AVG.)Material consistency:1.000(CAT HB)   | Swell fac<br>Loose volu<br>ource of est<br>OURLY I<br>verage push<br>nadjusted h<br>laterials com<br>verage push  | ctor: 1.000<br>ime: 3,500<br>imated voluri<br>imated swell<br><b>PRODUCT</b><br>a distance:<br>ourly product<br>insistency descent<br>a gradient:<br>altitude:                                      | LCY         ne:       (3000'L         factor:       NA         'ION         tion:       931.6 LCY         cription:       Conso         -25 %         7,750 feet  | <i>č/</i> hr                |                               |              |          |
| Operator Skill:0.750(AVG.)Material consistency:1.000(CAT HB)   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br>(OURLY I<br>verage push<br>nadjusted h<br>laterials con<br>verage push<br>verage site  | ctor: 1.000<br>ime: 3,500<br>imated volur<br>imated swell<br>PRODUCT<br>n distance:<br>ourly produc<br>n sistency desc<br>n gradient:<br>altitude:<br>ght:  | LCY         ne:       (3000'L         factor:       NA         TON         tion:       931.6 LCY         cription:       Conso         -25 %         7,750 feet         2,550 lbs/LCY   | //hr<br>blidated stock      |                               |              |          |
| Material consistency: 1.000 (CAT HB)   | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>(OURLY )</b><br>verage push<br>nadjusted h<br>laterials com<br>verage push<br>verage site a<br>laterial weig<br>Veight descri         | ctor: 1.000<br>ime: 3,500<br>imated volur<br>imated swell<br><b>PRODUCT</b><br>a distance:<br>ourly produc<br>asistency desc<br>a gradient:<br>altitude:<br>ght:<br>iption:                         | LCY         ne:       (3000'L         factor:       NA         'ION         tion:       931.6 LCY         cription:       Conso         -25 %         7,750 feet         2,550 lbs/LCY         Earth - Dry packs  | //hr<br>blidated stock      | <br>pile 1.0                  |              |          |
|  | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br><b>(OURLY )</b><br>verage push<br>nadjusted h<br>laterials com<br>verage push<br>verage site a<br>laterial weig<br>Veight descri         | ctor: 1.000<br>ime: 3,500<br>imated volur<br>imated swell<br>PRODUCT<br>n distance:<br>ourly produc<br>asistency desc<br>n gradient:<br>altitude:<br>ght:<br>iption:<br>n Correction                | LCY         ne:       (3000'L         factor:       NA         TON       100 feet         tion:       931.6 LCY         cription:       Conso         -25 %       7,750 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Factor                 | Z/hr<br>blidated stockj     | <br>pile 1.0                  |              |          |
| LADATE LIGHTER LATER LA  | Swell fac<br>Loose volu<br>ource of est<br>ource of est<br>(OURLY I<br>verage push<br>nadjusted h<br>laterials con<br>verage push<br>verage site<br>faterial weig<br>laterial weig<br>leight descr: | ctor: 1.000<br>ime: 3,500<br>imated volur<br>imated swell<br>PRODUCT<br>n distance:<br>ourly produc<br>n sistency desc<br>n gradient:<br>altitude:<br>ght:<br>iption:<br>n Correction<br>Operator S | LCY         ne:       (3000'L         factor:       NA         TON       100 feet         tion:       931.6 LCY         cription:       Conso         -25 %       7,750 feet         2,550 lbs/LCY       Earth - Dry packed         Factor       Kill:       (100 feet) | Z/hr<br>Didated stock<br>ed | pile 1.0 <u>Source</u> (AVG.) |              |          |

| Visibility                 | /: 1.000      | (AVG.)        |
|----------------------------|---------------|---------------|
| Job efficiency             | 0.830         | (1 SHIFT/DAY) |
| Spoil pile                 | e: 0.800      | (FND-RF)      |
| Push gradien               | t: 1.516      | (CAT HB)      |
| Altitude                   | e: 1.000      | (CAT HB)      |
| Material Weight            | t: 0.902      | (CAT HB)      |
| Blade type                 | 2: 1.000      | (PAT)         |
| Net correction             |               |               |
| Adjusted unit production:  | 634.42 LCY/hr |               |
| Adjusted fleet production: | 634.42 LCY/hr |               |

## JOB TIME AND COST

| Fleet size: | 1 Dozer(s)  |  |
|-------------|-------------|--|
| Unit cost:  | \$0.323/LCY |  |
|             |             |  |

| Total job time: | 5.52 Hours |  |
|-----------------|------------|--|
| Total job cost: | \$1,131.69 |  |

## WHEEL LOADER - LOAD AND CARRY WORK

| Garrett Pit   | Permit Action:  | Routine update   | Permit/Job#   | : M1978271  |
|---|---|--|---|---|
|   |   |  |   |   |
| PROJECT IDENTIFICAT   | <u>FION</u>   |  |   |   |
| Task #: 004   | State: Colorado   |  | Abbreviation:   | None  |
| Date: 1/31/2013   | County: Conejos   |  | Filename:   | M271-004  |
| User: WHE   |   |  |   |   |
| Agency or organization  | on name: DRMS   |  |   |   |
|   |   |  |   |   |
| HOURLY EQUIPMENT  |   |  |   |   |
|   | 950H  |  | epower:   | 197   |
| Attachment 1: ROP   | S Cab   |  |   | per day   |
|   |   | Data   | Source: (   | CRG)  |
| Cost Breakdown:   |   |  |   |   |
|   | ĺ   | Utilization %  |   |   |
| Ownership Cost/Hour:  | \$24.98   | NA   |   |   |
| Operating Cost/Hour:  | \$43.03   | 100  |   |   |
| Operator Cost/Hour:   | \$35.82   | NA   |   |   |
| Total Unit Cost/Hour:   | \$103.83  |  |   |   |
| Total Fleet Cost/Hour:  | \$103.83  |  |   |   |
|   |   |  |   |   |
|   |   |  |   |   |
| MATERIAL QUANTITIE  | 2 <u>S</u>  |  |   |   |
|   |   | Swell factor   | 1 000   |   |
| Initial volume: 23,070  | CCY   | Swell factor: _  | 1.000   |   |
| Initial volume: 23,070<br>Loose volume:   | CCY<br>23,070 LCY   | Swell factor: _  | 1.000   |   |
| Initial volume:<br>Loose volume:<br>Source of estin   | 23,070 CCY<br>LCY<br>mated volume: (28.6ac)   | Swell factor:  |   |   |
| Initial volume: 23,070<br>Loose volume:   | 23,070 CCY<br>LCY<br>mated volume: (28.6ac)   |  |   |   |
| Initial volume:<br>Loose volume:<br>Source of estin   | 23,070 CCY<br>LCY<br>mated volume: (28.6ac)   |  |   |   |
| Initial volume:<br>Loose volume:<br>Source of estin   | CCY         23,070       LCY         mated volume:       (28.6ac)         vd swell factor:       NA   |  |   |   |
| Initial volume: 23,070<br>Loose volume: Source of estimate  | CCY         23,070       LCY         mated volume:       (28.6ac)         vd swell factor:       NA   | (43560sf/ac)(0.5°D) / 27   | 7 = 23,070 cy   | minutes   |
| Initial volume: 23,070<br>Loose volume: Source of estimate  | CCY       23,070     LCY       mated volume:     (28.6ac)       ad swell factor:     NA   | (43560sf/ac)(0.5°D) / 27   | 7 = 23,070 cy<br>):0.500  |   |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>Source of estimate<br>HOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors  | CCY       23,070     LCY       mated volume:     (28.6ac)       ad swell factor:     NA   | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver  | 7 = 23,070 cy<br>): <u>0.500</u><br>Factor (min.)   | Source  |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>Source of estimate<br>HOURLY PRODUCTION<br>Loader Cycle Time: Una<br>Cycle Time Factors  <br>Material: 1                                      | CCY         23,070       LCY         mated volume:       (28.6ac)         ad swell factor:       NA         adjusted Basic Cycle Time         Material up to 1/8" diameted  | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02   | 7 = 23,070 cy<br>): 0.500<br>Factor (min.)<br>0.020   | Source<br>(Cat HB)  |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>Source of estimate<br>HOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors<br>Material: 1<br>Stockpile:                         | CCY         23,070       LCY         mated volume:       (28.6ac)         ad swell factor:       NA         adjusted Basic Cycle Time         Material up to 1/8" diameted         Conveyor or dozer piled 10   | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00   | 7 = 23,070  cy $r): 0.500$ Factor (min.) 0.020 0.000  | Source<br>(Cat HB)<br>(Cat HB)  |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>Source of estimate<br>HOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors<br>Material: 1<br>Stockpile: 0<br>Truck Ownership: 1 | CCY         23,070       LCY         mated volume:       (28.6ac)         ad swell factor:       NA         adjusted Basic Cycle Time         Material up to 1/8" diameted  | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00   | 7 = 23,070 cy<br>): 0.500<br>Factor (min.)<br>0.020<br>0.000<br>0.000   | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)  |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>BOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors<br>Material:<br>Stockpile:<br>Truck Ownership:<br>Operation:               | CCY         23,070       LCY         mated volume:       (28.6ac)         ad swell factor:       NA         adjusted Basic Cycle Time         Material up to 1/8" diameted         Conveyor or dozer piled 10         No adjustment - factor not                                | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00   | 7 = 23,070 cy<br>): 0.500<br>Factor (min.)<br>0.020<br>0.000<br>0.000<br>-0.040   | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)                                    |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>BOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors<br>Material:<br>Stockpile:<br>Truck Ownership:<br>Operation:               | CCY<br>23,070 CCY<br>LCY<br>mated volume: (28.6ac)<br>d swell factor: NA<br>adjusted Basic Cycle Time<br>Material up to 1/8" diamete<br>Conveyor or dozer piled 10<br>No adjustment - factor not<br>Constant operation -0.04<br>Fragile target 0.05                             | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00   | 7 = 23,070 cy<br>): 0.500<br>Factor (min.)<br>0.020<br>0.000<br>0.000<br>-0.040<br>0.050  | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)                        |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>BOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors<br>Material:<br>Stockpile:<br>Truck Ownership:<br>Operation:               | CCY<br>23,070 CCY<br>LCY<br>mated volume: (28.6ac)<br>d swell factor: NA<br>adjusted Basic Cycle Time<br>Material up to 1/8" diamete<br>Conveyor or dozer piled 10<br>No adjustment - factor not<br>Constant operation -0.04<br>Fragile target 0.05<br>Net Cy                   | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00<br>applicable 0.00  | 7 = 23,070 cy<br>): 0.500<br>Factor (min.)<br>0.020<br>0.000<br>0.000<br>-0.040   | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>minutes |
| Initial volume:   | CCY<br>23,070 LCY<br>mated volume: (28.6ac)<br>d swell factor: NA<br>adjusted Basic Cycle Time<br>Material up to 1/8" diamete<br>Conveyor or dozer piled 10<br>No adjustment - factor not<br>Constant operation -0.04<br>Fragile target 0.05<br>Net Cy<br>Adjust                | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00<br>applicable 0.00<br>cle Time Adjustment:                          | 7 = 23,070  cy $7 = 23,070  cy$ $7 =$ | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)                        |
| Initial volume:<br>Loose volume:<br>Source of estimate<br>BOURLY PRODUCTION<br>Loader Cycle Time: Unit<br>Cycle Time Factors<br>Material:<br>Stockpile:<br>Truck Ownership:<br>Operation:               | CCY<br>23,070 LCY<br>mated volume: (28.6ac)<br>d swell factor: NA<br>adjusted Basic Cycle Time<br>Material up to 1/8" diamete<br>Conveyor or dozer piled 10<br>No adjustment - factor not<br>Constant operation -0.04<br>Fragile target 0.05<br>Net Cy<br>Adjust                | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00<br>applicable 0.00<br>cle Time Adjustment:                          | 7 = 23,070  cy $7 = 23,070  cy$ $7 =$ | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>minutes |
| Initial volume:   | CCY<br>23,070 LCY<br>mated volume: (28.6ac)<br>d swell factor: NA<br>adjusted Basic Cycle Time<br>Material up to 1/8" diameter<br>Conveyor or dozer piled 10<br>No adjustment - factor not<br>Constant operation -0.04<br>Fragile target 0.05<br>Net Cy<br>Adjusted<br>Material | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00<br>applicable 0.00<br>cle Time Adjustment:<br>red Basic Cycle Time: | 7 = 23,070  cy $Factor (min.)$ $0.020$ $0.000$ $0.000$ $-0.040$ $0.050$ $0.030$ $0.530$   | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>minutes |
| Initial volume:   | CCY<br>23,070 LCY<br>mated volume: (28.6ac)<br>d swell factor: NA<br>adjusted Basic Cycle Time<br>Material up to 1/8" diamete<br>Conveyor or dozer piled 10<br>No adjustment - factor not<br>Constant operation -0.04<br>Fragile target 0.05<br>Net Cy<br>Adjust                | (43560sf/ac)(0.5'D) / 27<br>(load, dump, maneuver<br>er 0.02<br>) ft. high and up 0.00<br>applicable 0.00<br>cle Time Adjustment:<br>red Basic Cycle Time: | 7 = 23,070  cy $(1): 0.500$ Factor (min.) $0.020$ $0.000$ $0.000$ $-0.040$ $0.050$ $0.030$ $0.530$ Tration 5.0  | Source<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>(Cat HB)<br>minutes             |

|               | Length<br>(feet) | Grade Res.<br>(%) | Rolling<br>Res. (%) | Total Res.<br>(%) | Travel Time<br>(minutes) | Source   |
|---------------|------------------|-------------------|---------------------|-------------------|--------------------------|----------|
| Haul Route:   | 1000             | 0.00              | 5.00                | 5.00              | 0.9564                   | (Cat HB) |
| Return Route: | 1000             | 0.00              | 5.00                | 5.00              | 0.8477                   | (Cat HB) |

|  |  | Total Trav<br>Total Cyc                   |                  | minutes |
|--|--|---|------------------|---------|
| Load Bucket Capacity   |  |   |                  |         |
| Rated Capacity:<br>Bucket Fill Factor:<br>Adjusted Capacity: | 4.30<br>1.050<br>4.52  | LCY (heaped)<br>Other - moist loam<br>LCY | (100-110%) 1.050 |         |
| Job Condition Correction Fa<br>Site Altitude: 7750 feet      | actors   |   |                  |         |
|  | 1.00<br>0.83<br>0.83<br>usted Hourly Unit P<br>usted Hourly Unit P |   | LCY/Hour         |         |
|  | isted Hourly Fleet P   |   | LCY/Hour         |         |
| JOB TIME AND COST  |  |   |                  |         |
| Fleet size: 1  | Loader(s)  | Total job tin                             | ne: 239.49       | Hours   |
| Unit cost:\$1.078  | 3 /LCY   | Total job co                              | ost: \$24,866.00 |         |

## **REVEGETATION WORK**

| Task descri               | ption:   | Revegetate 53 ac  | res                 |                |                            |                  |
|---------------------------|--|-------------------|---------------------|----------------|----------------------------|------------------|
| Site: Garrett             | Pit  | Peri              | mit Action:         | Routine update | Permit/Job#:               | M1978271         |
| Task #:<br>Date:<br>User: | 005       1/31/2013       WHE       gency or organia | State:<br>County: | Colorado<br>Conejos |                | Abbreviation:<br>Filename: | None<br>M271-005 |

## **FERTILIZING**

#### Materials

| Description              | Units /<br>Acre | Unit  | Cost / Unit                                | Cost /Acre |
|--------------------------|-----------------|-------|--|------------|
| 10-34-0, 18-46-0, 5-10-5 | 200.00          | pound | \$0.33                                     | \$65.40    |
|                          |                 |       | Total Fertilizer<br>Materials<br>Cost/Acre | \$65.40    |

## Application

| Description                                     |  | Cost /Acre |
|---|--|------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) |  | \$52.71    |
|   |  |            |
|   | Total Fertilizer Application Cost/Acre | \$52.71    |

## **TILLING**

| Description                                      |                         | Cost /Acre |
|--|-------------------------|------------|
| Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) |                         | \$98.01    |
|  | Total Tilling Cost/Acre | \$98.01    |

## **SEEDING**

| Seed Mix                     | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre |
|------------------------------|--------------------------------|------------------------|------------|
| Blue Grama - Hachita         | 0.60                           | 9.79                   | \$6.39     |
| Sand Dropseed                | 0.10                           | 11.94                  | \$0.70     |
| Crested Wheatgrass - Fairway | 2.00                           | 9.18                   | \$4.84     |
| Russian Wildrye - VNS        | 2.50                           | 10.04                  | \$9.28     |
| Yellow Sweet Clover - Madrid | 0.15                           | 0.90                   | \$0.38     |
| Rabbitbrush, Rubber          | 0.15                           | 2.23                   | \$5.49     |
| Totals Seed Mix              | 5.50                           | 44.09                  | \$27.08    |

Application

Description

Cost /Acre

| Drill seeding (DRMS Cost Data) |                                  | \$88.20 |
|--------------------------------|----------------------------------|---------|
|                                |                                  |         |
|                                | Total Seed Application Cost/Acre | \$88.20 |

## **MULCHING and MISCELLANEOUS**

#### Materials

| Description                               | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00            | TON  | \$265.00    | \$530.00   |
| Total Mulch Materials Cost/Acre           |                 |      |             | \$530.00   |

#### Application

| Description                              |                                   | Cost /Acre |
|--|-----------------------------------|------------|
| Crimping, with tractor {DMG survey data} |                                   | \$65.89    |
|  | Total Mulch Application Cost/Acre | \$65.89    |

## NURSERY STOCK PLANTING

| Common Name | No /<br>Acre | Type and Size | Planting<br>Cost  | Fertilizer<br>Pellet Cost | Cost /Acre |
|-------------|--------------|---------------|-------------------|---------------------------|------------|
|             |              |               |                   |                           | \$         |
|             |              | То            | tals Nursery Stoc | k Cost / Acre             | \$0.00     |

## JOB TIME AND COST

|                     | No. of Acres:    | 53                    | Cost /Acre:  | \$927.29 |
|---------------------|------------------|-----------------------|--------------|----------|
| Estimat             | ed Failure Rate: | 25%                   | Cost /Acre*: | \$927.29 |
| *Selected Replanti  | ng Work Items:   | FERTILIZING, TILLING, | SEEDING,NU   |          |
|                     |                  | RSERY, MULCHING       |              |          |
| Initial Job Cost:   | \$49,146.37      |                       |              |          |
| Reseeding Job Cost: | \$12,286.59      |                       |              |          |

 Second Second

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

| Garrett Pit                          |                   | Permit .       | Action: Routir | e update  | Pe             | ermit/Job#: _M | 1978271     |  |
|--------------------------------------|-------------------|----------------|----------------|-----------|----------------|----------------|-------------|--|
| PROJECT I                            | DENTIFICAT        | ION            |                |           |                |                |             |  |
|                                      | 006               | State: C       | olorado        |           | Abbı           | eviation: No   | ne          |  |
|                                      | /31/2013<br>WHE   | County: Co     | onejos         |           | F              | Filename: M2   | 71-006      |  |
| Agene                                | cy or organizatio | n name: DRMS   | 0              |           |                |                |             |  |
| EQUIPMEN                             | T TRANSPOI        | RT RIG COST    |                |           |                |                |             |  |
|                                      |                   |                |                |           | Shift ba       | asis: 1 per    | dav         |  |
|                                      |                   |                |                |           | Cost Data Sou  |                |             |  |
| <b>T</b> -                           |                   |                |                |           |                |                |             |  |
| 11                                   | uck Tractor Desc  | cription: GEN  | ERIC ON-HIGH   |           |                |                | EL POWERED, |  |
| T                                    | ruck Trailer Desc | CENI           | DICEOLDING     |           | P (2ND HALF,   |                |             |  |
| 11                                   | ruck Trailer Desc | cription: GENE | ERIC FOLDING   |           |                |                | ENT TRAILER |  |
|                                      |                   |                |                | (23)      | C, 50T, AND 10 | )01)           |             |  |
| Cost Breakdow                        | <u>m:</u>         |                |                |           |                |                |             |  |
| Available Rig                        | Capacities        | 0-25 Tons      | 26-50 Tons     | 51        | + Tons         |                |             |  |
|                                      | hip Cost/Hour:    | \$16.63        | \$18.37        |           | 322.33         |                |             |  |
| Operat                               | ing Cost/Hour:    | \$44.38        | \$46.13        |           | 50.07          |                |             |  |
| Ópera                                | tor Cost/Hour:    | \$27.66        | \$27.66        |           | 27.66          |                |             |  |
| Hel                                  | per Cost/Hour:    | \$0.00         | \$25.39        |           | 25.39          |                |             |  |
| Total U                              | nit Cost/Hour:    | \$88.67        | \$117.55       |           | 125.45         |                |             |  |
|                                      |                   |                |                |           |                |                |             |  |
| NON ROAD                             | ABLE EQUIP        | MENT:          |                |           |                |                |             |  |
| Machine                              | Weight/           | Owner ship     | Haul Rig       | Fleet     | Haul Trip      | Return Trip    | DOT Perm    |  |
| Description                          | Unit              | Cost/hr/ unit  | Cost/hr/unit   | Size      | Cost/hr/       | Cost/hr/ fleet |             |  |
| T                                    | (TONS)            |                |                |           | fleet          |                |             |  |
| Cat D8T - 8U                         | 53.70             | \$63.00        | \$125.45       | 1         | \$188.45       | \$125.45       | \$250.00    |  |
| CAT 950H                             | 20.13             | \$24.98        | \$88.67        | i         | \$113.65       | \$88.67        | \$250.00    |  |
| Drill/Broadcast<br>Seeder with Tract | 25.00<br>tor      | \$39.59        | \$88.67        | 2         | \$256.51       | \$177.34       | \$500.00    |  |
|                                      |                   |                | s              | ubtotals: | \$558.61       | \$391.46       | \$1,000.00  |  |
|                                      |                   |                |                | uototais. | 4000.01        | \$371.40       | \$1,000.00  |  |

| Machine Description         | Total Cost/hr/ unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|-----------------------------|---------------------|------------|-----------------------------|-------------------------------|
| Flatbed Truck, 4x2, 30K GVW | \$32.79             | 1          | \$32.79                     | \$32.79                       |
|                             |                     | Subtotals: | \$32.79                     | \$32.79                       |

## **EQUIPMENT HAUL DISTANCE and Time**

| Nearest Major City or Town within project area region:                   | ALAMOSA    |       |
|--|------------|-------|
| Total one-way travel distance:   | 15.00      | miles |
| Average Travel Speed:  | 40.00      | mph   |
| Total Non-Roadable Mob/Demob Cost *<br>'* two round trips with haul rig: | \$3,829.77 |       |
| Total Roadable Mob/Demob Cost **<br>** one round trip, no haul rig:      | \$24.59    |       |

Transportation Cycle Time:

|                         | Non-Roadable<br>Equipment | Roadable<br>Equipment |
|-------------------------|---------------------------|-----------------------|
| Haul Time (Hours):      | 0.38                      | 0.38                  |
| Return Time (Hours):    | 0.38                      | 0.38                  |
| Loading Time (Hours):   | 0.50                      | NA                    |
| Unloading Time (Hours): | 0.50                      | NA                    |
| Subtotals:              | 1.75                      | 0.75                  |

## JOB TIME AND COST

Total job time: \_\_\_\_\_ Hours

Total job cost: \$3,854.36