



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Uncompahgre Pit	MINE/PROSPECTING ID#: M-2013-007	MINERAL: Gravel and sand	COUNTY: Montrose
INSPECTION TYPE: Multi Person Inspection	INSPECTOR(S): Wallace H. Erickson, G. Russell Means	INSP. DATE: June 4, 2013	INSP. TIME: 10:00
OPERATOR: Rocky Mountain Aggregate & Construction,	OPERATOR REPRESENTATIVE: Zane Luttrell	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Preoperational Inspection	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: Permit Under Review
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: <i>Wallace H. Erickson</i>	SIGNATURE DATE: June 19, 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-----	NA	(FN) FINANCIAL WARRANTY-----	NA	(RD) ROADS-----	NA
(HB) HYDROLOGIC BALANCE-----	NA	(BG) BACKFILL & GRADING-----	NA	(EX) EXPLOSIVES-----	NA
(PW) PROCESSING WASTE/TAILING--	NA	(SF) PROCESSING FACILITIES-----	NA	(TS) TOPSOIL-----	NA
(MP) GENL MINE PLAN COMPLIANCE-	NA	(FW) FISH & WILDLIFE-----	NA	(RV) REVEGETATION--	NA
(SM) SIGNS AND MARKERS-----	NA	(SP) STORM WATER MGT PLAN----	NA	(SB) COMPLETE INSP----	Y
(ES) OVERBURDEN/DEV. WASTE-----	NA	(SC) EROSION/SEDIMENTATION---	NA	(RS) RECL PLAN/COMP-	NA
(AT) ACID OR TOXIC MATERIALS----	NA	(OD) OFF-SITE DAMAGE-----	NA	(ST) STIPULATIONS----	NA

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 was conducted as part of the Division's review process of an amended 112c application for the Uncompahgre Pit. This report is accompanied by a preliminary reclamation cost estimation totaling \$99,409.04.

Site conditions appeared consistent with the descriptions provided in the application materials. As described in the application materials, the permit area includes 253.25 acres with 244.07 acres delineated as affected lands. The application proposes a phased mine plan with contemporaneous reclamation occurring within each of the five phases whereby the active extraction and processing area will be limited to approximately 20 acres at any given time. Approximately one foot of topsoil and one foot of subsoil will be salvaged from the mining areas and safeguarded for reclamation purposes. The mineable materials extend to approximately 25 - 35 feet deep. The excavation activity will be conducted in a manner to maintain internal drainage and retain storm water runoff within the pit area. On-site processing will include crushing, screening, washing, and production of asphalt and concrete products. Water, as necessary to support the operation, will be procured from the on-site irrigation ditches (Ouray Ditch and/or Montrose West Canal), or trucked in from off-site sources. Application materials indicate the Applicant has legal right to utilize water from the irrigation ditches. A new access road will be constructed from County Road T to the excavation and processing area. The new access road will include a bridge crossing of the Montrose West Canal and culvert crossing of the Ouray Ditch. Affected lands at the excavation and processing area will be reclaimed to support rangeland post-mining land use. Affected lands at the office/shop area will be reclaimed to support industrial/commercial post-mining land use. The new access road will remain as a permanent feature and not to be removed during final reclamation.

Based on the descriptions provided in the application materials, site conditions observed during the inspection, and the requirements of Rule 4.2.1(4), the Division has completed a preliminary reclamation cost estimation totaling \$99,409.04. Please find enclosed 15 pages of summary, drawing and task sheets utilized by the Division to calculate the cost of reclamation. The Division's reclamation cost estimation assumes a 10 acre excavation and material processing area with additional four acres affected lands for Topsoil Stockpile 1, totaling 14 acres reclamation liability, which could be created within the first year of operations.

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

Inspection Contact Address

Zane Luttrell
Rocky Mountain Aggregate & Construction, LLC
23625 Uncompahgre Road
Montrose, CO 81401

Enclosure: Reclamation cost estimation totaling \$99,409.04

cc w/enclosure: Greg Lewicki, Greg Lewicki & Associates
Russ Means, DRMS GJFO

COST SUMMARY WORK

Task description: Summary of tasks and associated costs

Site: Uncompahgre Pit

Permit Action: 112c application
review

Permit/Job#: M2013007

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 6/19/2013

County: Montrose

Filename: M007-000

User: WHE

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolish and remove mine related structures	DEMOLISH	1	10.00	\$1,101.76
002	Highwall reduction	DOZER	1	13.26	\$3,429.31
003	Rip & grade 7 acres pit floor area	DOZER	1	5.18	\$1,375.89
004	Replace OVB 1'D pit floor area	SCRAPER1	1	10.17	\$14,143.52
005	Replace topsoil 1'D over 10 acres area	SCRAPER1	1	14.54	\$21,238.63
006	Revegetate 14 acres affected lands	REVEGE	1	14.00	\$29,921.50
007	Haul reclamation equipment to and from job site	MOBILIZE	1	2.80	\$7,123.42
<u>SUBTOTALS:</u>				69.95	\$78,334.03

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02%

Total = \$1,582.35

Performance bond: 1.05%

Total = \$822.51

Job superintendent: 30.00 hrs

Total = \$1,962.30

Profit: 10.00%

Total = \$7,833.40

TOTAL O & P = \$12,200.56

CONTRACT AMOUNT (direct + O & P) = \$90,534.59

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 = \$3,847.72

Reclamation management and/or administration: 5.00%

\$4,526.73

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$21,075.01

TOTAL BOND AMOUNT (direct + indirect) = \$99,409.04

DEMOLITION WORK

Task description: Demolish and remove mine related structures

Site: Uncompahgre Pit

Permit Action: 112c application review

Permit/Job#: M2013007

PROJECT IDENTIFICATION

Task #: 001
Date: 6/18/2013
User: WHE

State: Colorado
County: Montrose

Abbreviation: None
Filename: M007-001

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 94.70 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Concrete foundation for truck scales	4 x 12'L	Demo. and on-site disposal in existing pit, 1.5 ft. x 3 ft. - Max. 200 ft. push	48.00	LF	\$14.99	\$719.42
Spill containment structures for fuel tanks	2 (10'W x 20'L)	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	400.00	SF	\$1.11	\$444.00

Job Hours: 0.00

Subtotal
(unadjusted): \$1,163.42

Total Cost
(adjusted for location): \$1,101.76

BULLDOZER WORKTask description: Highwall reduction

Site: Uncompahgre Pit Permit Action: 112c application review Permit/Job#: M2013007

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 6/18/2013 County: Montrose Filename: M007-002
 User: WHE

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

Basic Machine: Cat D9T - 9U
 Horsepower: 405
 Blade Type: Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$78.33</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$142.13</u>	<u>100</u>
Ripper op. Cost/Hour:	<u>\$0.80</u>	<u>10</u>
Operator Cost/Hour:	<u>\$37.41</u>	<u>NA</u>

Total unit Cost/Hour: \$258.67
 Total Fleet Cost/Hour: \$258.67

MATERIAL QUANTITIES

Initial Volume: 12,407
 Swell factor: 1.000
 Loose volume: 12,407 LCY

Source of estimated volume: See attached drawing, "Highwall Reduction..."
 Source of estimated swell factor: NA

HOURLY PRODUCTION

Average push distance: 50 feet
 Unadjusted hourly production: 2,222.9 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -10 %
 Average site altitude: 6,400 feet

Material weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB)</u>

Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4210

Adjusted unit production: 935.84 LCY/hr

Adjusted fleet production: 935.84 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.276/LCY

Total job time: 13.26 Hours

Total job cost: \$3,429.31

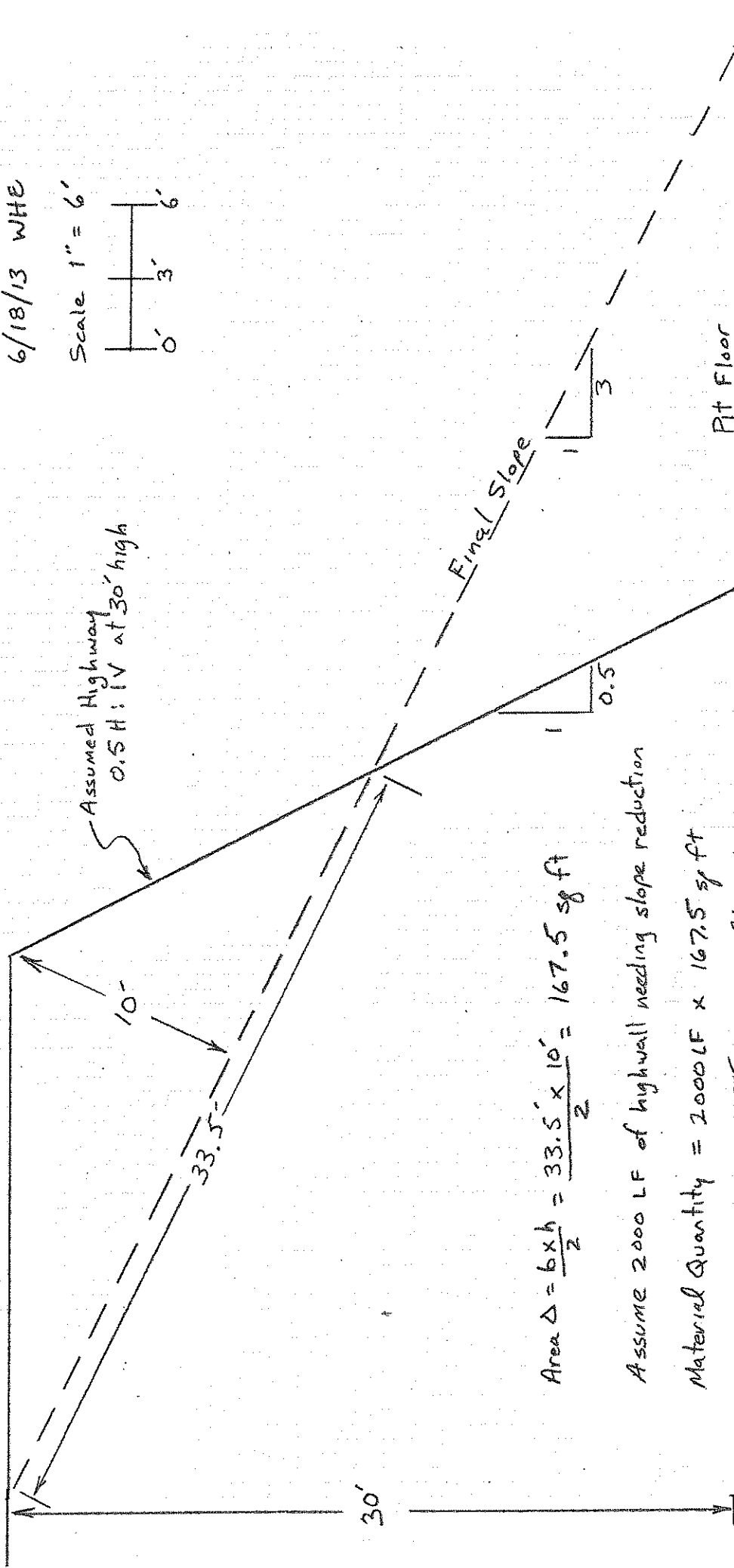
Highwall Reduction from 0.5H:1V to 3H:1V

Uncompacted Pit

M-2013-007

6/18/13 WHE

Scale 1" = 6'



$$\text{Area } \Delta = \frac{b \times h}{2} = \frac{33.5' \times 10'}{2} = 167.5 \text{ sq ft}$$

Assume 2000 LF of highwall needing slope reduction

$$\text{Material Quantity} = 2000 \text{ LF} \times 167.5 \text{ sq ft}$$

$$= 335,000 \text{ cu ft}$$

$$= 12,407 \text{ cy}$$

BULLDOZER WORKTask description: Rip & grade 7 acres pit floor areaSite: Uncompahgre PitPermit Action: 112c application
reviewPermit/Job#: M2013007**PROJECT IDENTIFICATION**Task #: 003
Date: 6/19/2013
User: WHEState: Colorado
County: MontroseAbbreviation: None
Filename: M007-003Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9U
Horsepower: 405
Blade Type: Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$78.33</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$142.13</u>	<u>100</u>
Ripper op. Cost/Hour:	<u>\$7.96</u>	<u>100</u>
Operator Cost/Hour:	<u>\$37.41</u>	<u>NA</u>

Total unit Cost/Hour: \$265.84
Total Fleet Cost/Hour: \$265.84**MATERIAL QUANTITIES**Initial Volume: 5,647
Swell factor: 1.000
Loose volume: 5,647 LCYSource of estimated volume: (7ac)(43560sf/ac)(0.5'D) / 27 = 5,646.67 cy
Source of estimated swell factor: NA**HOURLY PRODUCTION**Average push distance: 50 feet
Unadjusted hourly production: 2,222.9 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %
Average site altitude: 6,400 feetMaterial weight: 2,100 lbs/LCYWeight description: Shale**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4908

Adjusted unit production: 1,091.00 LCY/hr

Adjusted fleet production: 1091 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
 Unit cost: \$0.244/LCY

Total job time: 5.18 Hours
 Total job cost: \$1,375.89

SCRAPER TEAM WORKTask description: Replace OVB 1'D pit floor areaSite: Uncompahgre PitPermit Action: 112c application reviewPermit/Job#: M2013007**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 6/19/2013County: MontroseFilename: M007-004User: WHEAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 657G w/push-pull
-Dozer:	Cat D9T - 9U
Support Equipment -Load Area:	Cat D9T - 9U
-Dump Area:	Cat D9T - 9U
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	50	25	25	NA	NA
Ownership cost/hour:	\$127.71	\$78.33	\$78.33	\$78.33	NA	NA
Operating cost/hour:	\$292.23	\$71.07	\$35.53	\$35.53	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.80	\$0.00	NA	NA
Operator cost/hour:	\$30.02	\$37.41	\$37.41	\$37.41	NA	NA
Unit Subtotals:	\$449.96	\$186.81	\$152.07	\$151.27	NA	NA
Number of Units:	2	1	1	1	0	0
Group Subtotals:	Work: \$1,086.73		Support: \$303.34		Maint:	\$0.00

Total work team cost/hour: \$1,390.07**MATERIAL QUANTITIES**Initial volume: 11,293

CCY

Swell factor: 1.000Loose volume: 11,293

LCY

Source of estimated volume: (7ac)(43560sf/ac)(1'D) / 27 = 11,293.3 cySource of estimated swell factor: NA**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,550 lbs/LCY
 Material description: Earth - Dry packed
 Rated Payload: 104,000 pounds
 Payload Capacity: 40.78 LCY

Struck Volume: 32.00 LCY
 Heaped Volume: 44.00 LCY
 Average Volume: 38.00 LCY
 Adjusted Capacity: 38.00 LCY

Cycle Time:

Scraper Loading Time: 1.10 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 6400 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	-4.70	5.00	0.30	3067	0.73

Haul Time: 0.73 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	4.70	5.00	9.70	1913	0.98

Return Time: 0.98 minutesTotal Scraper team cycle time: 3.41 minutesAdjusted for job conditions: 1,109.91 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,109.91 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,109.91 LCY/HourUnadjusted unit production/hour: 1,337.24 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 10.17 HoursUnit cost: \$1.252 /LCYTotal job cost: \$14,143.52

SCRAPER TEAM WORKTask description: Replace topsoil 1'D over 10 acres areaSite: Uncompahgre PitPermit Action: 112c application reviewPermit/Job#: M2013007**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 6/19/2013County: MontroseFilename: M007-005User: WHEAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 657G w/push-pull
-Dozer:	Cat D9T - 9U
Support Equipment -Load Area:	Cat D9T - 9U
-Dump Area:	Cat D9T - 9U
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	50	50	50	NA	NA
Ownership cost/hour:	\$127.71	\$78.33	\$78.33	\$78.33	NA	NA
Operating cost/hour:	\$292.23	\$71.07	\$71.07	\$71.07	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.80	\$0.00	NA	NA
Operator cost/hour:	\$30.02	\$37.41	\$37.41	\$37.41	NA	NA
Unit Subtotals:	\$449.96	\$186.81	\$187.60	\$186.81	NA	NA
Number of Units:	2	1	1	1	0	0
Group Subtotals:	Work: \$1,086.73		Support: \$374.41		Maint:	\$0.00

Total work team cost/hour: \$1,461.14**MATERIAL QUANTITIES**Initial volume: 16,133

CCY

Swell factor: 1.000Loose volume: 16,133

LCY

Source of estimated volume: (10ac)(43560sf/ac)(1'D) / 27 = 16,133.3 cySource of estimated swell factor: NA**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,550 lbs/LCY
 Material description: Earth - Dry packed
 Rated Payload: 104,000 pounds
 Payload Capacity: 40.78 LCY

Struck Volume: 32.00 LCY
 Heaped Volume: 44.00 LCY
 Average Volume: 38.00 LCY
 Adjusted Capacity: 38.00 LCY

Cycle Time:

Scraper Loading Time: 1.10 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 6400 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	-4.70	5.00	0.30	3067	0.73

Haul Time: 0.73 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1600.00	4.70	5.00	9.70	1913	0.98

Return Time: 0.98 minutesTotal Scraper team cycle time: 3.41 minutesAdjusted for job conditions: 1,109.91 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,109.91 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,109.91 LCY/HourUnadjusted unit production/hour: 1,337.24 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 14.54 HoursUnit cost: \$1.316 /LCYTotal job cost: \$21,238.63

REVEGETATION WORKTask description: Revegetate 14 acres affected landsSite: Uncompahgre PitPermit Action: 112c application
reviewPermit/Job#: M2013007**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 6/19/2013County: MontroseFilename: M007-006User: WHEAgency 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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost / Acre
Indian Ricegrass - Native	3.00	9.71	\$20.22
Bottlebrush Squirreltail	0.50	2.20	\$12.43
Burnett, Small (or Little) - Delar	2.00	2.53	\$3.54
Galleta	3.00	10.95	\$75.60
Rabbitbrush, Rubber	0.50	7.45	\$18.30
Daisy, Goldenglow	1.00	5.44	\$259.98
Saltbush, Four Wing - Dewinged	1.00	1.61	\$19.16
Globemallow, Scarlet (or copper)	0.50	5.66	\$70.24
Saltbush, Shadscale	0.50	0.75	\$5.96
Winter Fat	0.50	1.27	\$16.35

Sulphur Flower (or Buckwheat)	2.00	4.13	\$261.52
Totals Seed Mix	14.50	51.70	\$763.29

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.24	\$16.24
Total Mulch Materials Cost/Acre				\$546.24

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)	\$86.68
Weed spray, truck, non-aquatic area, nox. [DMG]	\$61.49
Total Mulch Application Cost/Acre	\$214.06

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: 14 Cost /Acre: \$1,709.80
 Estimated Failure Rate: 25% Cost /Acre*: \$1,709.80
 *Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$23,937.20
 Reseeding Job Cost: \$5,984.30
 Total Job Cost: \$29,921.50
 Job Hours: 0.00

EQUIPMENT MOBILIZATION/DEMobilIZATIONTask description: Haul reclamation equipment to and from job site
 Permit Action: 112c application review
 Site: Uncompahgre Pit Permit/Job#: M2013007
PROJECT IDENTIFICATION
 Task #: 007 State: Colorado Abbreviation: None
 Date: 6/19/2013 County: Montrose Filename: M007-007
 User: WHE
Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**
 Shift basis: 1 per day
 Cost Data Source: CRG Data
Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$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 D9T - 9U	66.78	\$78.33	\$125.45	1	\$203.78	\$125.45	\$500.00
Cat 657G w/push-pull	80.25	\$127.71	\$125.45	2	\$506.32	\$250.90	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	2	\$256.51	\$177.34	\$500.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	2	\$191.40	\$177.34	\$500.00
Subtotals:					\$1,158.01	\$731.03	\$2,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$55.61	1	\$55.61	\$55.61
Light Duty Pickup, 4x4, 3/4 T.	\$73.84	1	\$73.84	\$73.84
Subtotals:			\$129.45	\$129.45

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>MONTROSE</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$7,071.64</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$51.78</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.20	0.20
Return Time (Hours):	0.20	0.20
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.40	0.40

JOB TIME AND COST

Total job time:	<u>2.80</u>	Hours
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Total job cost:	<u>\$7,123.42</u>
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