

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215
Denver, Colorado 80203
Phone: (303) 866-3567
FAX: (303) 832-8106



August 22, 2012

Stephanie Bratton
Bratton Enterprises, Inc.
237 Roselawn Avenue
Yampa, CO
80483

John W. Hickenlooper
Governor

Mike King
Executive Director

Loretta Piñeda
Director

***RE: McCoy Pit, Permit # M-1981-088, Transfer of Permit and Succession of Operator (SO3),
Approval and Request for Financial and Performance Warranties***

Dear Mrs. Bratton:

On August 22, 2012, the Division of Reclamation, Mining and Safety completed the review of your application for a Transfer of Permit and Succession of Operator application submitted to the Division on August 15, 2012. On your application form you initialed Option A, which specifies that the Division would recalculate the required bond prior to approval of the transfer. The estimated liability of the reclamation bond has been calculated to be \$208,944.00. Please submit a performance warranty and a financial warranty in the amount of \$208,944.00 within 60 days. **The transfer of Permit # M-1981-088 will not be final until the bond is approved by the Division.** You will be contacted once the warranties have been reviewed and approved.

If you require additional information, or have questions or concerns, please contact me at the Division's Grand Junction Field Office, or contact Barbara Coria, Minerals Division Program Assistant, at 303-866-3567, ext. 8148.

Sincerely,

A handwritten signature in black ink, appearing to read "Dustin Czaplá", written over a horizontal line.

Dustin Czaplá
Environmental Protection Specialist
Department of Natural Resources
Division of Reclamation, Mining and Safety
101 South 3rd, Suite 301
Grand Junction, CO 81501
Phone: (970) 243-6299
Fax: (970) 241-1516

Cc: Anne Johnson, Lafarge West, Inc.
Barbara Coria, DRMS Denver


Encl: DRMS February 22, 2012 Inspection Report
DRMS February 24, 2012 Bond Calculation



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: McCoy Pit	MINE/PROSPECTING ID#: M-1981-088	MINERAL: Volcanic materials	COUNTY: Routt
INSPECTION TYPE: Surety-Related Inspection	INSPECTOR(S): Dustin M. Czaplá	INSP. DATE: February 22, 2012	INSP. TIME: 11:00
OPERATOR: Lafarge West, Inc.	OPERATOR REPRESENTATIVE: Jim Bratton	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Surety Related	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$338,500.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: February 24, 2012

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>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>N</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>Y</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(SB) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>N</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 was conducted by the Division of Reclamation, Mining and Safety (Division), in response to the Succession of Operators application (SO2) submitted on January 6, 2012, in order to review and update the required amount of reclamation liability. An updated reclamation cost estimate is enclosed with this report. Pending approval of SO2, the permit will be transferred from Lafarge West, Inc. to Bratton Enterprises, Inc. Jim Bratton and Travis Pinnt, representing the successor operator, were present during this inspection. Photographs are included with this report in order to illustrate some of the conditions observed during this inspection.

The McCoy Pit is located approximately 4.1 miles northeast of McCoy and accessed from CR4a. The site is a 112c operation that includes a total of 73.7 permitted acres. The Division currently holds a financial warranty amount of \$335,500.00 for this site.

Adequate mine identification signage was noted at the entrance to the site in accordance with Rule 3.1.12(1).

The affected area was marked by t-posts that were clearly visible and adequate to delineate the affected area boundary 3.1.12(2).

The volcanic material is mined from this site by use of front end loaders and/or dozers. Blasting is not required. Mining was occurring in an area north of the office building, on the north side of the deposit, during this inspection. There was no readily discernable pattern to the mining which has occurred at this site, which has left most of the permit area disturbed. There is an insufficient amount of topsoil and overburden at the site to cover the entire disturbed area for final reclamation. This issue was addressed through AM2.

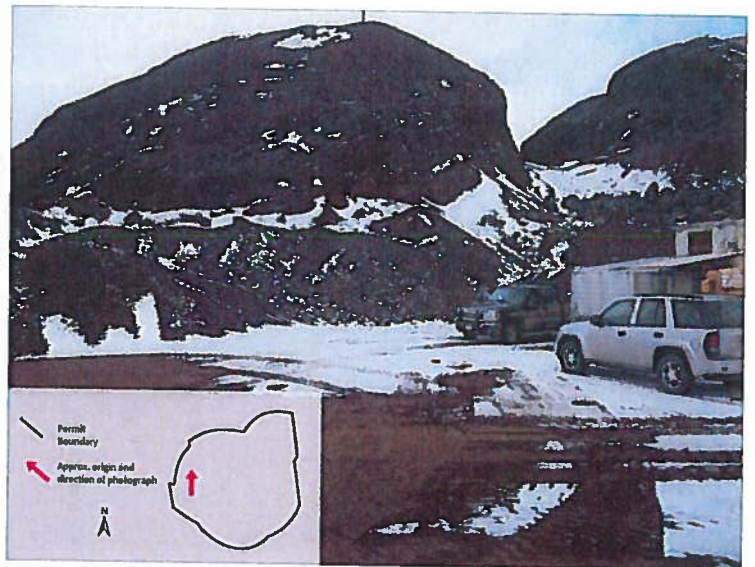
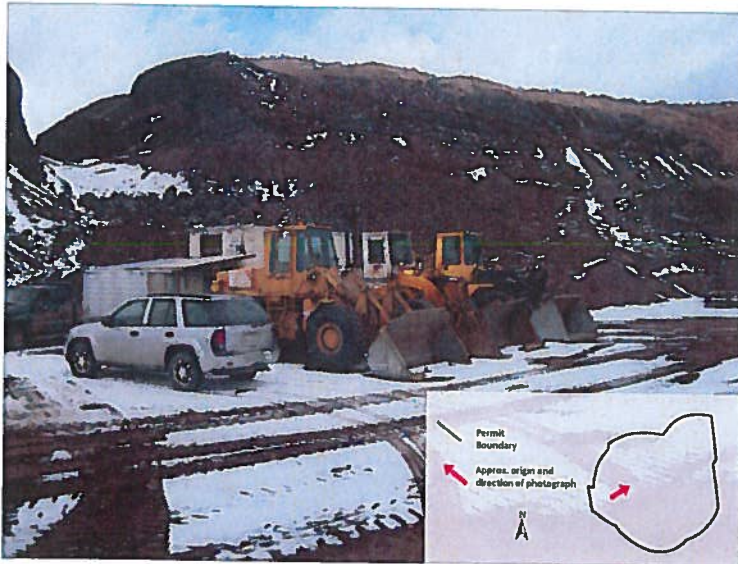
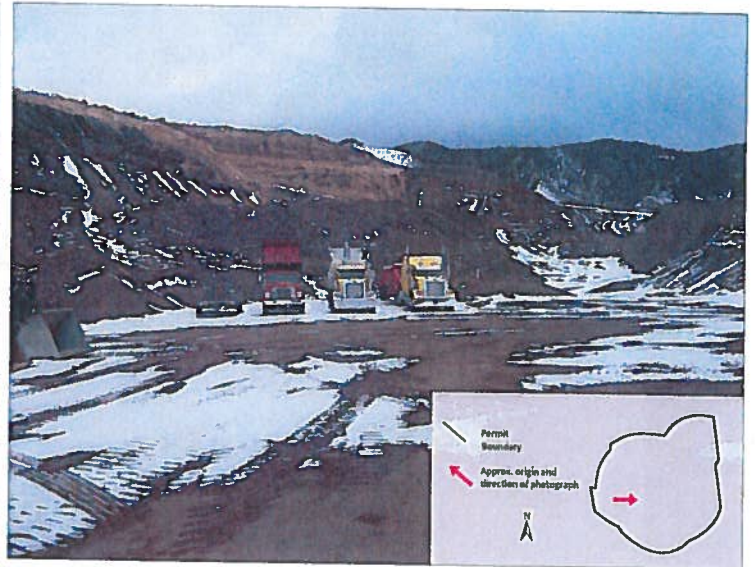
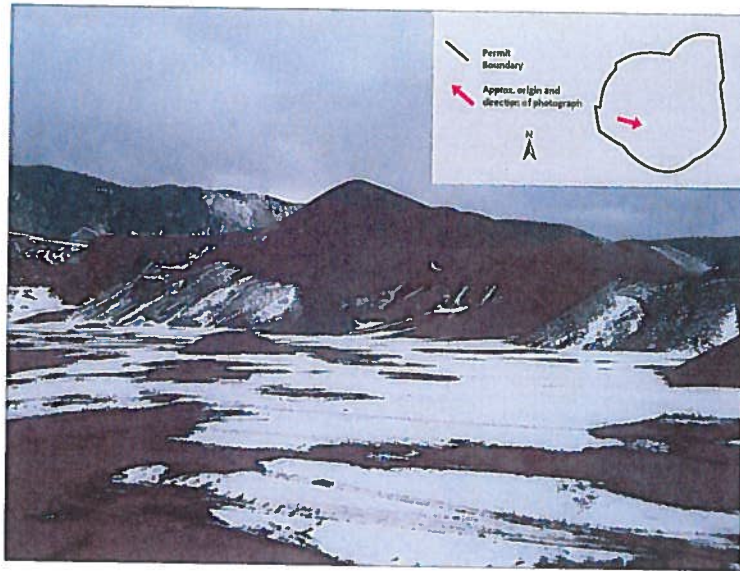
Highwalls up to 80 feet high, with slopes ranging from 1H:1V to near vertical, were noted around the mined area north and east of the office building, in the red scoria deposit. Highwalls up to 40 feet high, along the north permit area in the black scoria deposit, were observed with slopes ranging from approximately 1H:1V to near vertical. The operation produces a large amount of screen undersized material that is stockpiled in various locations throughout the permit area that will be available for reclamation backfill. Stockpiled slopes were approximately 1H:1V and appeared stable.

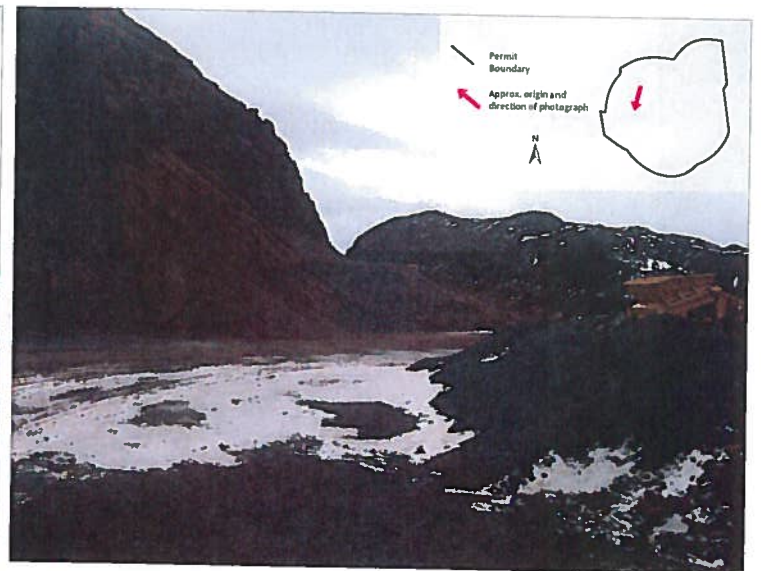
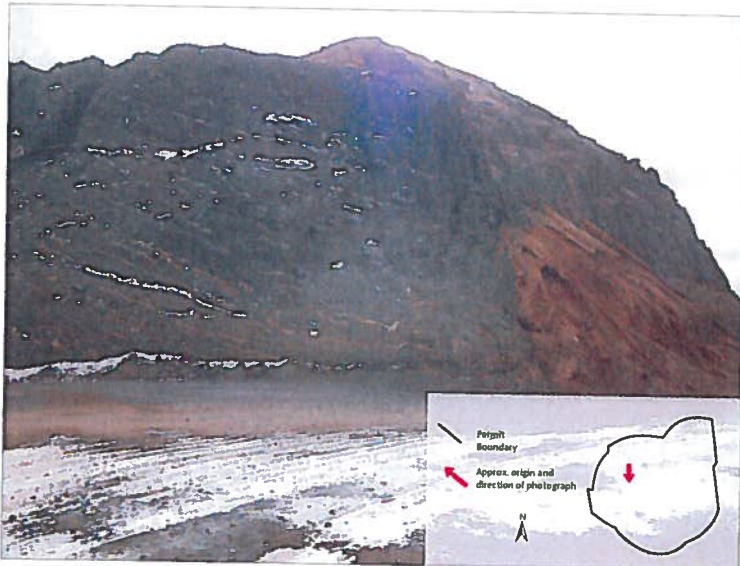
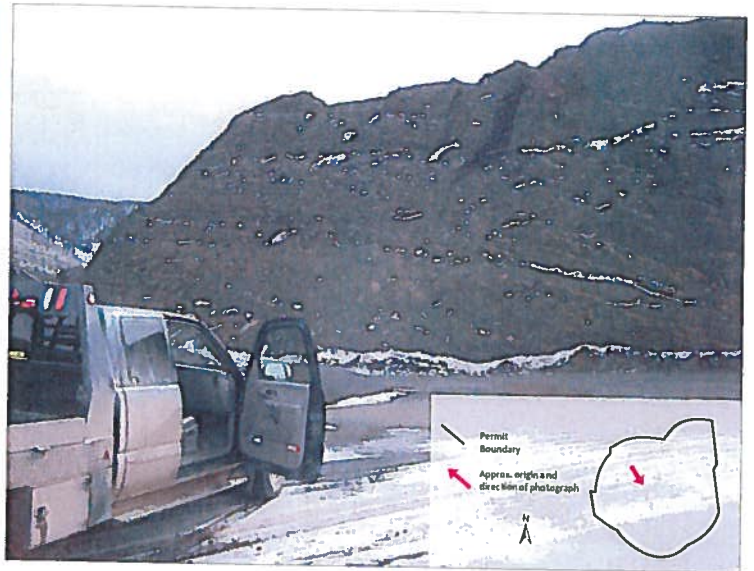
Reclamation of the site will require reduction of the mined slopes and existing stockpile slopes to 3H:1V to create a hummocky grade, removal of a section of railroad track located on the site, removal of the office building and other support facilities and equipment, ripping compacted areas and placement of available overburden, and revegetation.

No problems or violations were noted during this inspection.

Responses to this inspection report should be directed to Dustin Czapla at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 South 3rd Street, Room 301, Grand Junction, Colorado 81501, phone number (970) 243-6299.

PHOTOGRAPHS





Inspection Contact Address

Sean Frisch
Lafarge West, Inc.
10170 Church Ranch Way
Westminster , CO 80021

Enclosure: DRMS Reclamation Cost Summary Package

CC: Jim Bratton

COST SUMMARY WORK

Task description: _____

Site: McCoy Pit

Permit Action: SO2

Permit/Job#: M1981088

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/24/2012

County: Routt

Filename: M088-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/removal of onsite structures and equipment	DEMOLISH	1	48.00	\$40,082.31
02a	Slope reduction to 3H:1V, hummocky grade	DOZER	1	86.99	\$17,385.68
03a	Rip compacted areas	RIPPER	1	39.68	\$8,546.00
04a	Placement of topsoil/overburden	LOADER	2	42.12	\$11,857.00
05a	Spread topsoil/overburden	DOZER	1	59.66	\$11,922.72
06a	Revegetate affected area	REVEGE	1	60.00	\$80,818.54
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	6.00	\$4,959.00
<u>SUBTOTALS:</u>				342.45	\$175,571.25

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 0.00
Profit: 10.00

Total = \$3,546.54

Total = \$1,843.50

Total = \$0.00

Total = \$17,557.13

TOTAL O & P = \$22,947.17

CONTRACT AMOUNT (direct + O & P) = \$198,518.42

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = 500.00

Total = \$0.00

\$9,925.92

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$33,373.09

TOTAL BOND AMOUNT (direct + indirect) = \$208,944.00

DEMOLITION WORK

Task description: Demo/removal of onsite structures and equipment

Site: McCoy Pit

Permit Action: SO2

Permit/Job#: M1981088

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 2/24/2012

County: Routt

Filename: M088-01a

User: DMC

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 91.30 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office building and shed	30'x8'x8'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	1,920.00	CF	\$0.17	\$322.56
Removal of railroad spur	4,800'	Railroad track - Ties and track	4,800.00	LF	\$8.57	\$41,136.00
Scale	20'x40'	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	1,600.00	CY	\$1.53	\$2,443.20

Job Hours: 48.00

Subtotal
(unadjusted): \$43,901.76

Total Cost
(adjusted for location): \$40,082.31

BULLDOZER WORKTask description: Slope reduction to 3H:1VSite: McCoy PitPermit Action: SO2Permit/Job#: M1981088**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 2/24/2012County: RouttFilename: M088-02aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$58.56	NA
Operating Cost/Hour:	\$102.81	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.49	NA

Total unit Cost/Hour: \$199.86Total Fleet Cost/Hour: \$199.86**MATERIAL QUANTITIES**Initial Volume: 104,166Swell factor: 1.255Loose volume: 130,728 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: -15 %Average site altitude: 7,800 feetMaterial weight: 950 lbs/LCYWeight description: Cinders**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	2.421	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.7626

Adjusted unit production: 1,502.79 LCY/hr

Adjusted fleet production: 1502.79 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.133/LCY

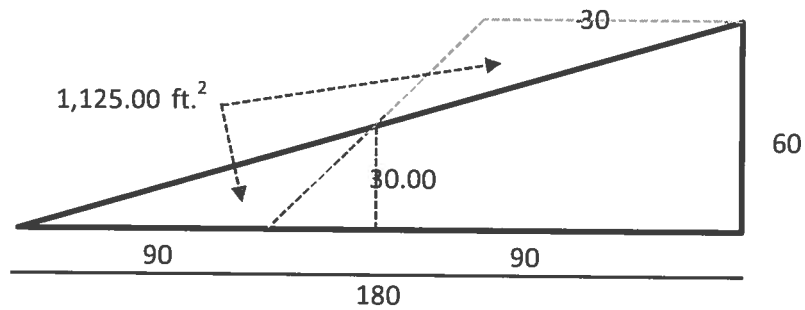
Total job time: 86.99 Hours

Total job cost: \$17,385.68

Highwall reduction - cut and fill

Highwall Height (ft.)	60.0	
Length of Highwall (ft.)	2000	
----- Initial Slope	0.5	H:1V
———— Desired Slope	3	H:1V
Volume of material to be moved (ft. ³)	2,250,000	
Volume of material to be moved (yd. ³)	83,333	

All dimensions measured in feet
Drawing not to scale

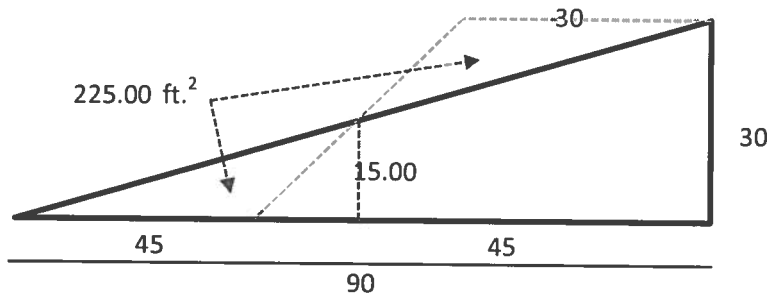


HW RED CINDER

Highwall reduction - cut and fill



Highwall Height (ft.)	30.0	
Length of Highwall (lft.)	1000	
----- Initial Slope	1.0	H:1V
———— Desired Slope	3	H:1V
Volume of material to be moved (ft. ³)	225,000	
Volume of material to be moved (yd. ³)	8,333	

All dimensions measured in feet
Drawing not to scale

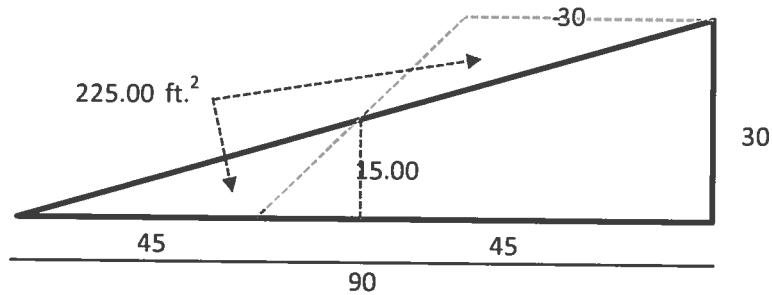


HW BLACK CINDER

Highwall reduction - cut and fill

Highwall Height (ft.)	30.0	
Length of Highwall (ft.)	1500	
 Initial Slope	1.0	H:1V
 Desired Slope	3	H:1V
Volume of material to be moved (ft. ³)	337,500	
Volume of material to be moved (yd. ³)	12,500	

All dimensions measured in feet
Drawing not to scale



STOCKPILES

BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: McCoy Pit

Permit Action: SO2

Permit/Job#: M1981088

PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 2/24/2012

County: Routt

Filename: M088-03a

User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Ripper Attachment: 1-Shank Ripper

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$65.94	NA
Operating Cost/Hour:	\$102.81	100
Ripper Operating Cost/Hour:	\$8.09	100
Operator Cost/Hour:	\$38.49	NA
Total Unit Cost/Hour:	\$215.33	
Total Fleet Cost/Hour:	\$215.33	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA

Bank Volume: NA

BCY

NA

Area: 20.00 acres

Rip Depth (ft): 2.00

Volume: 64,533

BCY or CCY

Source of estimated quantity: AM2 Exhibit L

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>3.71</u>	mph
Average Ripping Width:	<u>5.56</u>	degrees
Average Ripping Length:	<u>200.00</u>	feet
Average Dozer Speed:	<u>88.00</u>	feet
Average Maneuver Time:	<u>0.25</u>	feet
Production per unit area:	<u>0.607</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.607 Acres/hr

Site Altitude: 7,800 feet

Altitude Adj: 1.00 (CAT HB)

Job Efficiency: 0.83 (1 shift/day)

Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.50 Acres/hr

Adjusted Hourly Fleet Production: 0.50 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 39.69 Hours

Unit cost: \$427.296 Per acre Total job cost: \$8,546.00

WHEEL LOADER – LOAD AND CARRY WORKTask description: **Placement of topsoil/overburden**Site: **McCoy Pit**Permit Action: **SO2**Permit/Job#: **M1981088****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **2/24/2012**County: **Routt**Filename: **M088-04a**User: **DMC**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **CAT 972H**Attachment 1: **ROPS Cab**Horsepower: **287**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$36.70	NA
Operating Cost/Hour:	\$65.54	100
Operator Cost/Hour:	\$38.49	NA
Total Unit Cost/Hour:	\$140.73	
Total Fleet Cost/Hour:	\$281.46	

MATERIAL QUANTITIESInitial volume: **16,134**

CCY

Swell factor: **1.000**Loose volume: **16,134**

LCY

Source of estimated volume: **AM2 Exhibit L**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): **0.525** minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.020	minutes
Adjusted Basic Cycle Time:		0.505	minutes

Rolling Resistance – Road ConditionsHaul: **Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0**Return: **Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0****Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	500	0.00	8.00	8.00	0.5808	(Cat HB)
Return Route:	500	0.00	8.00	8.00	0.5162	(Cat HB)

Total Travel Time: 1.0970 minutes
 Total Cycle Time: 1.6020 minutes

Load Bucket Capacity

Rated Capacity:	<u>5.60</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.100</u>	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	<u>6.16</u>	LCY

Job Condition Correction FactorsSite Altitude: 7800 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production:	<u>230.71</u>	LCY/Hour
Adjusted Hourly Unit Production:	<u>191.49</u>	LCY/Hour
Adjusted Hourly Fleet Production:	<u>382.98</u>	LCY/Hour

JOB TIME AND COST

Fleet size:	<u>2</u>	Loader(s)	Total job time:	<u>42.13</u>	Hours
Unit cost:	<u>\$0.735</u>	/LCY	Total job cost:	<u>\$11,857.00</u>	

BULLDOZER WORKTask description: Spread topsoil/overburdenSite: McCoy PitPermit Action: SO2Permit/Job#: M1981088**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 2/24/2012County: RouttFilename: M088-05aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$58.56	NA
Operating Cost/Hour:	\$102.81	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.49	NA

Total unit Cost/Hour: \$199.86Total Fleet Cost/Hour: \$199.86**MATERIAL QUANTITIES**Initial Volume: 16,134Swell factor: 1.000Loose volume: 16,134 LCYSource of estimated volume: AM2 Exhibit LSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 7,800 feetMaterial weight: 2,500 lbs/LCYWeight description: Clay - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5498

Adjusted unit production: 270.45 LCY/hr

Adjusted fleet production: 270.45 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.739/LCY

Total job time: 59.66 Hours

Total job cost: \$11,922.72

REVEGETATION WORKTask description: Revegetate affected areaSite: McCoy PitPermit Action: SO2Permit/Job#: M1981088**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 2/24/2012County: RouttFilename: M088-06aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Pubescent Wheatgrass - Luna	8.40	17.36	\$18.40
Needle and Thread	3.00	7.92	\$138.00
Western Wheatgrass - Native	9.60	24.24	\$28.61
Basin Wildrye - Trailhead	6.60	26.82	\$42.31
Totals Seed Mix	27.60	76.34	\$227.31

Application

Description	Cost /Acre
Drill seeding {DMG}	\$90.11
Total Seed Application Cost/Acre	\$90.11

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$15.90	\$15.90
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$164.00	\$328.00
Total Mulch Materials Cost/Acre				\$343.90

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	63.43	Cost /Acre:	\$1,019.31
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,019.31
*Selected Replanting Work Items:	TILLING, SEEDING, MULCHING		
Initial Job Cost:	\$64,654.83		
Reseeding Job Cost:	\$16,163.71		
Total Job Cost:	\$80,818.54		
Job Hours:	60.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew and equipment**Site: **McCoy Pit**Permit Action: **SO2**Permit/Job#: **M1981088****PROJECT IDENTIFICATION**Task #: **07A**State: **Colorado**Abbreviation: **None**Date: **2/24/2012**County: **Routt**Filename: **M088-07a**User: **DMC**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 D8T - 8SU	53.08	\$65.28	\$125.45	1	\$190.73	\$125.45	\$250.00
CAT 972H	28.00	\$36.70	\$117.55	2	\$308.50	\$235.10	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00

Subtotals: **\$627.49** **\$449.22** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$25.30	1	\$25.30	\$25.30

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

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>EAGLE</u>	
Total one-way travel distance:	<u>35.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	
* two round trips with haul rig:	<u>\$4,908.40</u>
Total Roadable Mob/Demob Cost **	
** one round trip, no haul rig:	<u>\$50.60</u>

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.00</u>	<u>1.00</u>
Return Time (Hours):	<u>1.00</u>	<u>1.00</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>3.00</u>	<u>2.00</u>

JOB TIME AND COST

Total job time:	<u>6.00</u>	Hours
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Total job cost:	<u>\$4,959.00</u>
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