




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: Robins Rock Pit	MINE/PROSPECTING ID#: M-2009-053	MINERAL: Basalt	COUNTY: Conejos
INSPECTION TYPE: Monitoring	INSPECTOR(S): Wallace H. Erickson	INSP. DATE: Nov 20, 2013	INSP. TIME: 09:00
OPERATOR: Robins Construction, LLLP	OPERATOR REPRESENTATIVE: Randy Robins, Scott Johnson	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$31,647.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 3, 2014	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>PB</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</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>Y</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>PB</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>PV</u>	(ST) STIPULATIONS----- <u>NA</u>

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

INSPECTION TOPIC: Financial Warranty

PROBLEM: The Division has reviewed the current cost of reclamation totaling \$33,192.09. Therefore, the existing financial warranty, in the amount of \$31,647, is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands, pursuant to section 34-32.5-117(4)(b) C.R.S.

CORRECTIVE ACTIONS: Pursuant to Rule 4.2.1(2), the Operator has 60 days from the signature date of this inspection report, due June 2, 2014, to post \$1,545.09 additional surety to ensure a total financial warranty not less than \$33,192.09, or advance the reclamation and thereby render the existing financial warranty adequate.

CORRECTIVE ACTION DUE DATE: June 2, 2014

INSPECTION TOPIC: Off-Site Damage

POSSIBLE VIOLATION: Land has been affected outside of the approved permit boundary. This is a possible violation pursuant to section 34-32.5-109(1) C.R.S., for failure to first obtain from the Mined Land Reclamation Board or Office a reclamation permit prior to engaging in a new operation, and/or section 34-32.5-116(4)(i) C.R.S., for failure to protect areas outside of the affected land from slides or damages occurring during the mining operation.

CORRECTIVE ACTIONS: This possible violation will be scheduled for consideration by the Mined Land Reclamation Board during the May 21 - 22, 2014, Board meeting. The May 21 – 22, 2014, Board meeting will occur at 1313 Sherman Street, Room 318, Denver, Colorado, beginning at 9:00 am. If you have evidence such violation does not exist please submit it to the Division or bring it to the Board hearing. Official notice of the possible violation and Board hearing will be forthcoming and signed by the Division Director.

CORRECTIVE ACTION DUE DATE: May 21, 2014

INSPECTION TOPIC: Compliance with Reclamation Plan

PROBLEM: The Operator is not following the approved reclamation plan. Additionally, there appears contradictory language and/or conflicting permit conditions within the approved reclamation plan, which must be clarified. Therefore, the reclamation plan must be updated, through the Technical Revision process described under Rule 1.9 or the Amendment process described under Rule 1.10, to clarify the intended reclamation activities, pursuant to section 34-32.5-116(1) C.R.S.

CORRECTIVE ACTIONS: Within 60 days from the signature date of this report, due June 2, 2014, the Operator shall file with the Division a Technical Revision or Amendment to the permit, providing a comprehensive update of the approved reclamation plan.

CORRECTIVE ACTION DUE DATE: June 2, 2014

OBSERVATIONS

This inspection occurred in accordance with the Division routine monitoring of permitted operations. The Robins Rock Pit is approved for 9.7 acres affected lands for the extraction of basalt rock. Affected lands will be reclaimed to support rangeland post-mining land use. The Division holds \$31,647 financial warranty. This report is accompanied by two images from Google Earth, imagery dates June 30, 2011, and September 28, 2013, which have been modified to illustrate the various issues discussed within this report; three photographs taken during the inspection; and an updated reclamation cost estimation totaling \$33,192.09.

As shown in the enclosed images from Google Earth and the three photographs, the Operator has affected approximately four acres area beyond the permit boundary. The off-site disturbance includes the processing

and stockpiling of mined materials, processing equipment (mobile crusher, screens and conveyors), the construction of an access road, and the backfilling of an irrigation pond.

The off-site disturbance is a result of the adjacent mining operation, is a work and storage area for processing equipment, is a storage area for mined and processed materials, and is a storage area for reclamation materials (crusher fines) to be utilized during final reclamation of the affected lands. Pursuant to section 34-32.5-103(1) C.R.S., the off-site disturbances are affected lands. Pursuant to section 34-32.5-103(13) C.R.S., the activities which resulted in the off-site affected lands are defined as a mining operation.

The Division considers four acres of off-site affected lands to be a substantial area. Pursuant to section 34-32.5-123(2) C.R.S., an Operator who mines substantial acreage beyond the approved permit boundary may be found to be operating without a permit. Therefore, the off-site affected lands constitute a possible violation of permit conditions and section 34-32.5-109(1) C.R.S., for failure to first obtain a reclamation permit prior to engaging in a new operation; and/or section 34-32.5-116(4)(i) C.R.S., for failure to protect areas outside of the permit boundary from slides or damages occurring during the mining operation. Pursuant to Rule 3.2(3), the Division shall schedule the possible violation for consideration by the Board. Additional details of the possible violation and Board hearing are provided on page 2 of this inspection report.

As noted above, the Operator has recently backfilled the irrigation pond located at the southeast corner of the permit area. According to the approved reclamation plan the irrigation pond was a permanent structure, not to be removed during the mining and reclamation operation. Water from the irrigation pond was to be utilized to support revegetation efforts during final reclamation. The act of backfilling the irrigation pond is in conflict with the conditions of the approved reclamation plan. If the Operator desires to remove the irrigation pond, the Operator must revise the existing plan to reflect the current intent of the Operator.

There appears contradictory language and/or conflicting permit conditions within the approved reclamation plan, which must be clarified. Examples of contradictions within the permit documents include, but are not limited to, the following:

- The Operator has committed to salvaging 6-12 inches of topsoil for reclamation purposes, but alleges there will be no topsoil stockpiles for periods exceeding one year. According to the approved reclamation plan, revegetation efforts will be supported by replacement of crusher fines, as opposed to salvaged topsoil. The reclamation plan must clarify why topsoil, salvaged from the mining operation and available for reclamation purposes, will not be utilized to support reclamation.
- The text of the approved reclamation plan indicates the pit will be approximately 20 feet deep and the highwalls will be benched, each bench at approximately 4 feet high and 8 feet wide, resulting in an overall slope not steeper than 2H:1V. However, the approved reclamation map indicates the pit will be approximately 120 feet deep and the highwalls will be reduced to slopes not steeper than 1H:1V. The benches, discussed in the text, are not illustrated on the map of the approved reclamation plan. The text and map of the reclamation plan must be in agreement and not conflict one another.

The Division has noted a problem for not following the approved reclamation plan and for conflicting permit conditions within the approved reclamation plan. The Division has imposed corrective actions to address the issue and a deadline whereby the issue must be resolved. Details of the corrective action and deadline are provided on page 2 of this inspection report.

Notice to Increase the Financial Warranty

Based on observations made during the inspection and recorded in this report, and on conditions of the approved reclamation plan, and applicable requirements of the Act and Rules, the Division has reviewed the current cost of reclamation totaling \$33,192.09. Please find enclosed 11 pages of summary and task sheets utilized by the Division to calculate the current cost of reclamation. Therefore, the existing \$31,647 financial warranty is not adequate to ensure the completion of reclamation. The Division has noted a problem with the financial warranty and has imposed corrective actions and a deadline whereby the problem must be resolved. Details of the corrective action and associated deadline are provided on page 2 of this report.

Attachment: Certificate of Service

Enclosures: 1) Two Google Earth images, dated June 30, 2011, and September 28, 2013;
2) Three photographs taken during the inspection; and
3) Reclamation cost estimation totaling \$33,192.09

Certificate of Service

I, Wallace H. Erickson, hereby certify that on this 2nd day of April, 2014, placed a true copy of the foregoing inspection report generated from the November 20, 2013, inspection of the Robins Rock Pit, Permit No. M-2009-053, signed April 2, 2014, with enclosures, in the US Mail, first class postage affixed, and addressed to the following:

Randy Robins
Robins Construction, LLLP
P.O. Box 212
Antonito, CO 81120

And an electronic copy of the same by email to the following:

Randy Robins, Robins Construction at info@robinsconstruction.com
Scott Johnson, Summit Engineering at scott4622@gmail.com
Russ Means, DRMS GJFO at russ.means@state.co.us

Wallace H. Erickson
4/3/14

Robins Rock Pit
M-2009-053
Google Earth Image
June 30, 2011

Google Earth image, dated
June 30, 2011, showing the
approximate 9.7 acre permit
boundary, the irrigation
pond, and affected lands
located beyond the permit
boundary.

Permit boundary

Irrigation pond

Affected lands
located beyond the
permit boundary

Google earth

Imagery Date: 6/30/2011 37°05'55.17" N 106°04'46.90" W elev. 8023 ft eye alt. 9338 ft

Robins Rock Pit
M-2009-053
Google Earth Image
September 28, 2013

Google Earth image, dated
September 28, 2013,
showing the approximate 9.7
acre permit boundary , the
irrigation pond (recently
removed), the affected lands
located beyond the permit
boundary, and locations of
photos 1, 2 and 3.

Permit boundary

Irrigation pond
(removed)

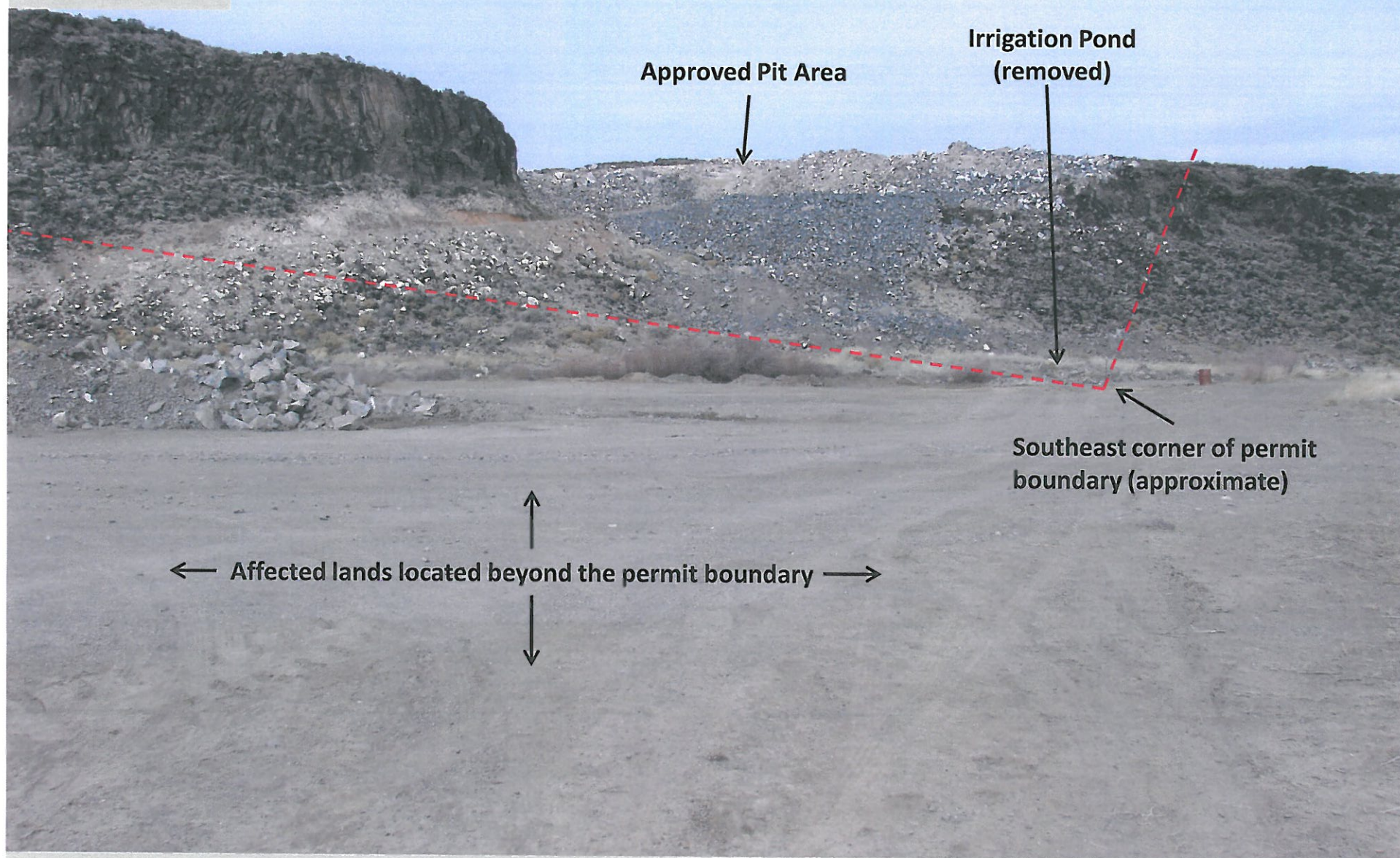
1
2
3

Affected lands
located beyond the
permit boundary

Google earth

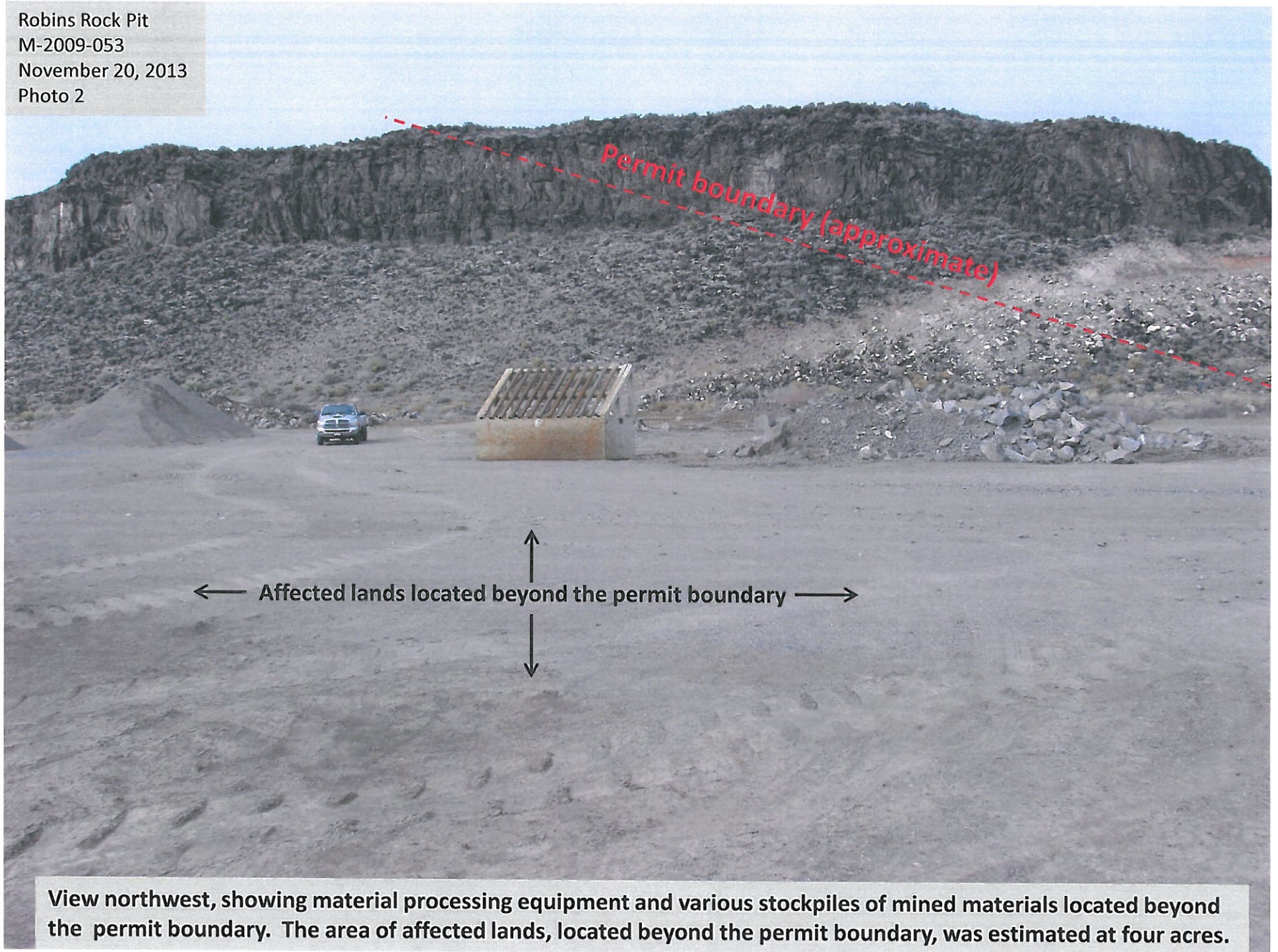
Imagery Date: 9/28/2013 37°05'55.17" N 106°04'46.90" W elev 8023 ft eye alt 9338 ft

Robins Rock Pit
M-2009-053
November 20, 2013
Photo 1



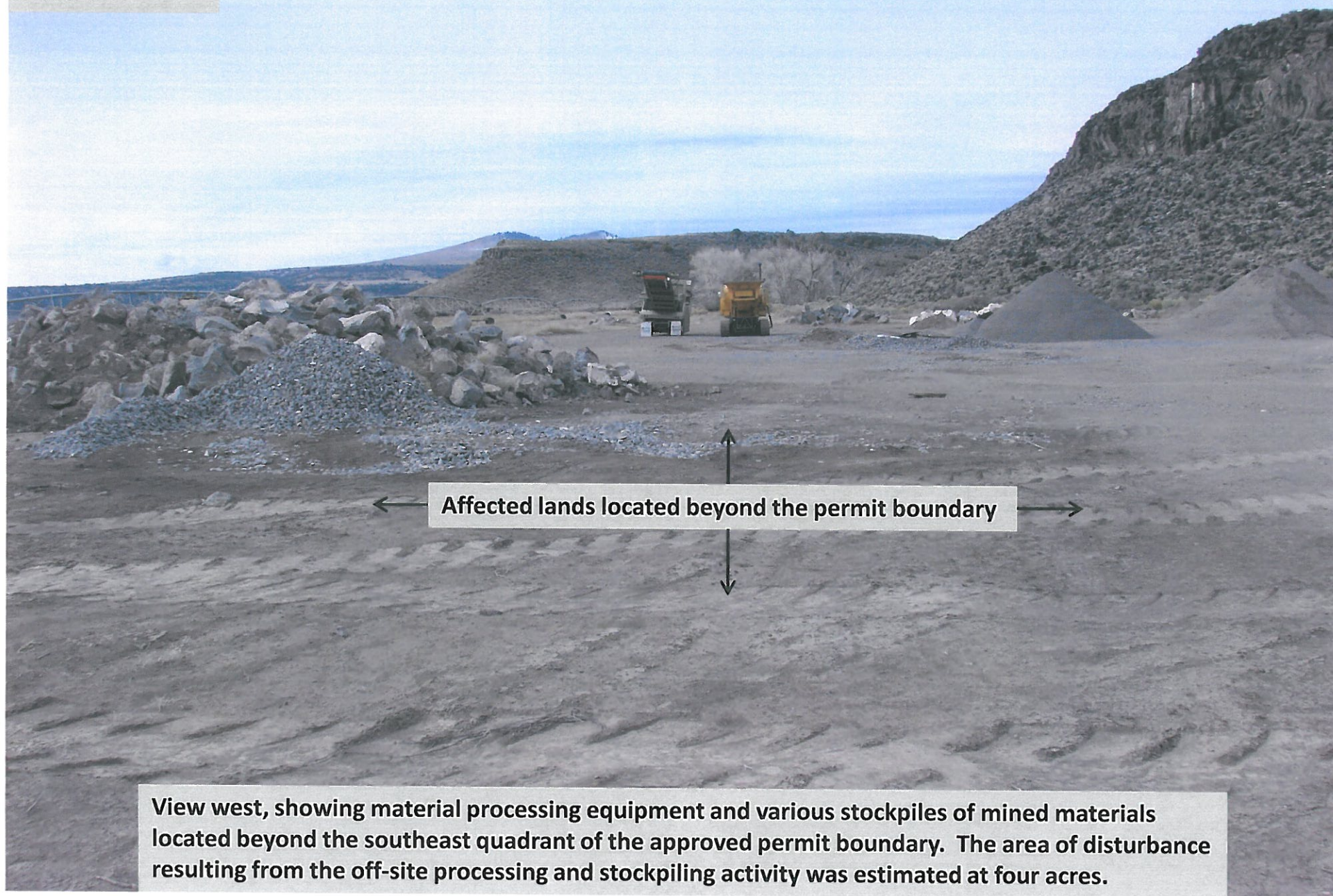
View north-northwest, showing affected lands located beyond the southeast quadrant of the approved permit boundary. The area of disturbance resulting from the off-site processing and stockpiling activity was estimated at four acres.

Robins Rock Pit
M-2009-053
November 20, 2013
Photo 2



View northwest, showing material processing equipment and various stockpiles of mined materials located beyond the permit boundary. The area of affected lands, located beyond the permit boundary, was estimated at four acres.

Robins Rock Pit
M-2009-053
November 20, 2013
Photo 3



← Affected lands located beyond the permit boundary →

View west, showing material processing equipment and various stockpiles of mined materials located beyond the southeast quadrant of the approved permit boundary. The area of disturbance resulting from the off-site processing and stockpiling activity was estimated at four acres.

COST SUMMARY WORK

Task description: Summary of reclamation tasks and costs

Site: Robins Rock Pit

Permit Action: Routine bond
update

Permit/Job#: M2009053

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/31/2014

County: Conejos

Filename: M053-000

User: WHE

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Rip and grade affected lands, ensure slopes at 2H:1V	DOZER	1	56.19	\$7,261.56
002	Transport topsoil to pit area for redistribution	LOADER	1	38.12	\$3,959.00
003	Spread topsoil 9 inches depth over 5 acres pit area	DOZER	1	19.74	\$2,550.82
004	Revegetate 5 acres affected land	REVEGE	1	40.00	\$7,575.19
005	Haul reclamation equipment to and from job site	MOBILIZE	1	5.00	\$6,189.76
<u>SUBTOTALS:</u>				159.05	\$27,536.33

INDIRECT COSTS

OVERHEAD AND PROFIT:

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

Total = \$556.23

Total = \$289.13

Total = \$0.00

Total = \$2,753.63

TOTAL O & P = \$3,598.99

CONTRACT AMOUNT (direct + O & P) = \$31,135.32

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00%

Total = \$0.00

Reclamation management and/or administration: 5.00%

\$1,556.77

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$5,655.76

TOTAL BOND AMOUNT (direct + indirect) = \$33,192.09

BULLDOZER WORKTask description: Rip and grade affected lands, ensure slopes at 2H:1VSite: Robins Rock PitPermit Action: Routine bond updatePermit/Job#: M2009053PROJECT IDENTIFICATIONTask #: 001State: ColoradoAbbreviation: NoneDate: 3/31/2014County: ConejosFilename: M053-001User: WHEAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D6THorsepower: 185Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$33.12	NA
Operating Cost/Hour:	\$57.97	100
Ripper op. Cost/Hour:	\$0.72	25
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$129.23Total Fleet Cost/Hour: \$129.23MATERIAL QUANTITIESInitial Volume: 8,067Swell factor: 1.000Loose volume: 8,067 LCYSource of estimated volume: (5ac)(43560sf/ac)(1'D) / 27 = 8,066.67 cySource of estimated swell factor: NA, basalt rock blastedHOURLY PRODUCTIONAverage push distance: 50 feetUnadjusted hourly production: 444.6 LCY/hrMaterials consistency description: Rock, avg. ripped or blasted 0.7Average push gradient: -15 %Average site altitude: 8,100 feetMaterial weight: 3,300 lbs/LCYWeight description: BasaltJob Condition Correction Factor

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3229

Adjusted unit production: 143.56 LCY/hr

Adjusted fleet production: 143.56 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
 Unit cost: \$0.900/LCY

Total job time: 56.19 Hours
 Total job cost: \$7,261.56

WHEEL LOADER – LOAD AND CARRY WORKTask description: Transport topsoil to pit area for redistributionSite: Robins Rock PitPermit Action: Routine bond updatePermit/Job#: M2009053**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 3/31/2014County: ConejosFilename: M053-002User: WHEAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 950HHorsepower: 197Attachment 1: ROPS CabShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		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 QUANTITIESInitial volume: 6,050

CCY

Swell factor: 1.000Loose volume: 6,050

LCY

Source of estimated volume: (5ac)(43560sf/ac)(0.75'D) / 27 = 6050 cySource of estimated swell factor: NA**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 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:		0.480	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Return: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	500	5.00	5.00	10.00	0.6748	(Cat HB)
Return Route:	500	-5.00	5.00	0.00	0.3296	(Cat HB)

Total Travel Time: 1.0044 minutes
Total Cycle Time: 1.4844 minutes

Load Bucket Capacity

Rated Capacity: 4.30 LCY (heaped)
Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity: 4.73 LCY

Job Condition Correction FactorsSite Altitude: 8100 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: 191.19 LCY/Hour
Adjusted Hourly Unit Production: 158.69 LCY/Hour
Adjusted Hourly Fleet Production: 158.69 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 38.13 Hours
Unit cost: \$0.654 /LCY Total job cost: \$3,959.00

BULLDOZER WORKTask description: Spread topsoil 9 inches depth over 5 acres pit areaSite: Robins Rock PitPermit Action: Routine bond updatePermit/Job#: M2009053**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 3/31/2014County: ConejosFilename: M053-003User: WHEAgency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D6T
 Horsepower: 185
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$33.12	NA
Operating Cost/Hour:	\$57.97	100
Ripper op. Cost/Hour:	\$0.72	25
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$129.23Total Fleet Cost/Hour: \$129.23**MATERIAL QUANTITIES**

Initial Volume: 6,050
 Swell factor: 1.000
 Loose volume: 6,050 LCY

Source of estimated volume: (5ac)(43560sf/ac)(0.75'D) / 27 = 6050 cySource of estimated swell factor: NA**HOURLY PRODUCTION**

Average push distance: 50 feet
 Unadjusted hourly production: 444.6 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: -15 %
 Average site altitude: 8,100 feet

Material weight: 2,650 lbs/LCYWeight description: Decomposed rock - 25% Rock, 75% Earth**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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6894

Adjusted unit production: 306.51 LCY/hr

Adjusted fleet production: 306.51 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.422/LCY

Total job time: 19.74 Hours
Total job cost: \$2,550.82

REVEGETATION WORKTask description: Revegetate 5 acres affected landSite: Robins Rock PitPermit Action: Routine bond updatePermit/Job#: M2009053**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 3/31/2014County: ConejosFilename: M053-004User: 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
Chisel plowing {DMG}	\$88.58
Total Tilling Cost/Acre	\$88.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.60	26.12	\$17.04
Indian Ricegrass - Nespar	6.00	19.42	\$42.48
Sand Dropseed	0.20	23.88	\$1.40
Bottlebrush Squirreltail	4.60	20.28	\$114.36
Saltbush, Four Wing - Dewinged	10.00	16.07	\$191.60
Totals Seed Mix	22.40	105.76	\$366.87

Application

Description	Cost /Acre
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Broadcast seeding [DMG]	\$261.28
Total Seed Application Cost/Acre	\$261.28

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$265.00	\$265.00
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.24	\$16.24
Total Mulch Materials Cost/Acre				\$281.24

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: 5 Cost /Acre: \$1,212.03
 Estimated Failure Rate: 25% Cost /Acre*: \$1,212.03
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$6,060.15
 Reseeding Job Cost: \$1,515.04
 Total Job Cost: \$7,575.19
 Job Hours: 40.00

EQUIPMENT MOBILIZATION/DEMobilIZATIONTask description: Haul reclamation equipment to and from job siteSite: Robins Rock PitPermit Action: Routine bond updatePermit/Job#: M2009053**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 3/31/2014County: ConejosFilename: M053-005User: WHEAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D6T	25.01	\$33.12	\$88.67	1	\$121.79	\$88.67	\$250.00
CAT 950H	20.13	\$24.98	\$88.67	1	\$113.65	\$88.67	\$250.00
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: **\$683.35** **\$532.02** **\$1,500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: **\$0.00** **\$0.00**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	ALAMOSA	
Total one-way travel distance:	30.00	miles
Average Travel Speed:	40.00	mph

Total Non-Roadable Mob/Demob Cost *	\$6,189.76
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$0.00
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.75	0.75
Return Time (Hours):	0.75	0.75
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.50	1.50

JOB TIME AND COST

Total job time:	5.00	Hours
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Total job cost:	\$6,189.76
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