




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: Lyle Smith Pit	MINE/PROSPECTING ID#: M-1977-053	MINERAL: Sand and gravel	COUNTY: Costilla
INSPECTION TYPE: Monitoring	INSPECTOR(S): Wallace H. Erickson	INSP. DATE: May 14, 2013	INSP. TIME: 08:30
OPERATOR: Asphalt Constructors, Inc.	OPERATOR REPRESENTATIVE: Todd Stockebrand	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$83,100.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: May 17, 2013

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>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>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(SB) COMPLETE INSP---- <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>Y</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>Y</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 \$128,120.82. Therefore, the existing \$83,100 financial warranty 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 C.R.S. 34-32.5-117(4)(b) of the Construction Materials Act.

CORRECTIVE ACTIONS: Pursuant to Construction Materials Rule 4.2.1(2), the Operator shall submit adequate financial warranty, totaling not less than \$128,120.82, within 60 days, due July 17, 2013.

CORRECTIVE ACTION DUE DATE: July 17, 2013

OBSERVATIONS

This inspection occurred as part of the Division's routine monitoring program for permitted operations. The 112c permit is approved for 90.96 acres affected lands for the extraction and processing of construction materials. On-site processing will include crushing, screening, and production of asphalt products. Affected lands will be reclaimed to support rangeland post-mining land use. The Division holds \$83,100 financial warranty. This report is accompanied by five photos and an updated reclamation cost estimation totaling \$128,120.82.

Public access to the affected lands is controlled by locked gate, fence lines, and earthen berms forming barriers to vehicular traffic. The Operator indicated a growing concern for security of equipment; specifically theft of fuel and electric cables stripped from conveyors, crushers, generators, and nearby center pivot irrigation equipment. The Division inspector has recently heard similar concerns from other operators not only in Costilla County but also from the surrounding counties.

Mining activities were active at the far west end of the permit area and within the initial portions of the Phase 2 area approved under AM-02. Based on observations made during the inspection, and on information provided by the Operator in the most recent annual report, affected lands currently total approximately 59 acres. Within that 59 acres the Operator has backfilled and graded approximately 6,300 linear feet of highwall to slopes not steeper than 3H:1V. Depth of the pit was visually estimated at 20 feet deep, resulting in approximately 9 acres of 3H:1V area.

3H:1V slope @ 60 feet H : 20 feet V

Slope length = $\sqrt{H^2 + V^2}$ = 63.24 feet

Area of 3H:1V slope = slope length x linear length of reduced highwall
= (63.24 feet x 6300 feet) / (43560 square feet/acre) = 9.15 acres

Topsoil replacement has occurred for approximately 13 acres and no acreage has been seeded with the approved reclamation seed mix (see annual report, signature date December 11, 2012).

Therefore, an updated reclamation cost estimation should address the following:

- slope reduction for approximately 1,000 linear feet of highwall (existing near-vertical highwall)
- ripping and rough grading for approximately 50 acres of pit floor area
- topsoil replacement for approximately 46 acres
- application of the approved reclamation seed mix for 59 acres
- mobilization and demobilization of reclamation equipment from Alamosa

Based on observations made during the inspection and recorded in this report the Division has reviewed the current cost of reclamation totaling \$128,120.82. Please find enclosed 12 pages of summary, drawing, and task sheets utilized by the Division to calculate the current cost of reclamation. Pursuant to Rule 4.2.1(2), the Operator has 60 days from the signature date of this report, by July 17, 2013, to post \$45,020.82 additional bond to ensure a total financial warranty not less than \$128,120.82, or complete portions of the approved reclamation plan sufficient to render the existing \$83,100 financial warranty adequate.

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

Todd Stockebrand
Asphalt Constructors, Inc.
7040 W US Highway 160
Alamosa, CO 81101

Enclosures: 5 photos and an updated reclamation cost estimation dated 5/17/13 and totaling \$128,120.82

cc w/enclosures: Russ Means, DRMS GJFO

Certificate of Service

I, Wallace H. Erickson, do hereby certify that on this 17th day of May, 2013, placed a true copy of the foregoing inspection report of the Lyle Smith Pit, Permit No. M-1977-053, generated from the site inspection occurring on May 14, 2013, with five photographs taken during the inspection, and an undated reclamation cost estimation totaling \$128,120.82, in the US Mail, postage affixed, and addressed to the following:

Todd Stockebrand
Asphalt Constructors, Inc.
7040 Highway 160 West
Alamosa, CO 81101

 5/17/13
Signature and date

Lyle Smith Pit
M-1977-053
May 14, 2013

View west, taken from the north side of the pit area, showing backfilled pit slopes and material stockpiles located on the pit floor. Backfilled pit slopes ranged from 3H:1V to 4H:1V. Affected lands exhibited internal drainage, evidence of excessive erosion and/or siltation to surrounding lands was not observed. The waste asphalt materials, stockpiled on the pit floor and shown in photo left, appeared older than 60 days; evidence of petroleum leachate from the asphalt materials was not observed.

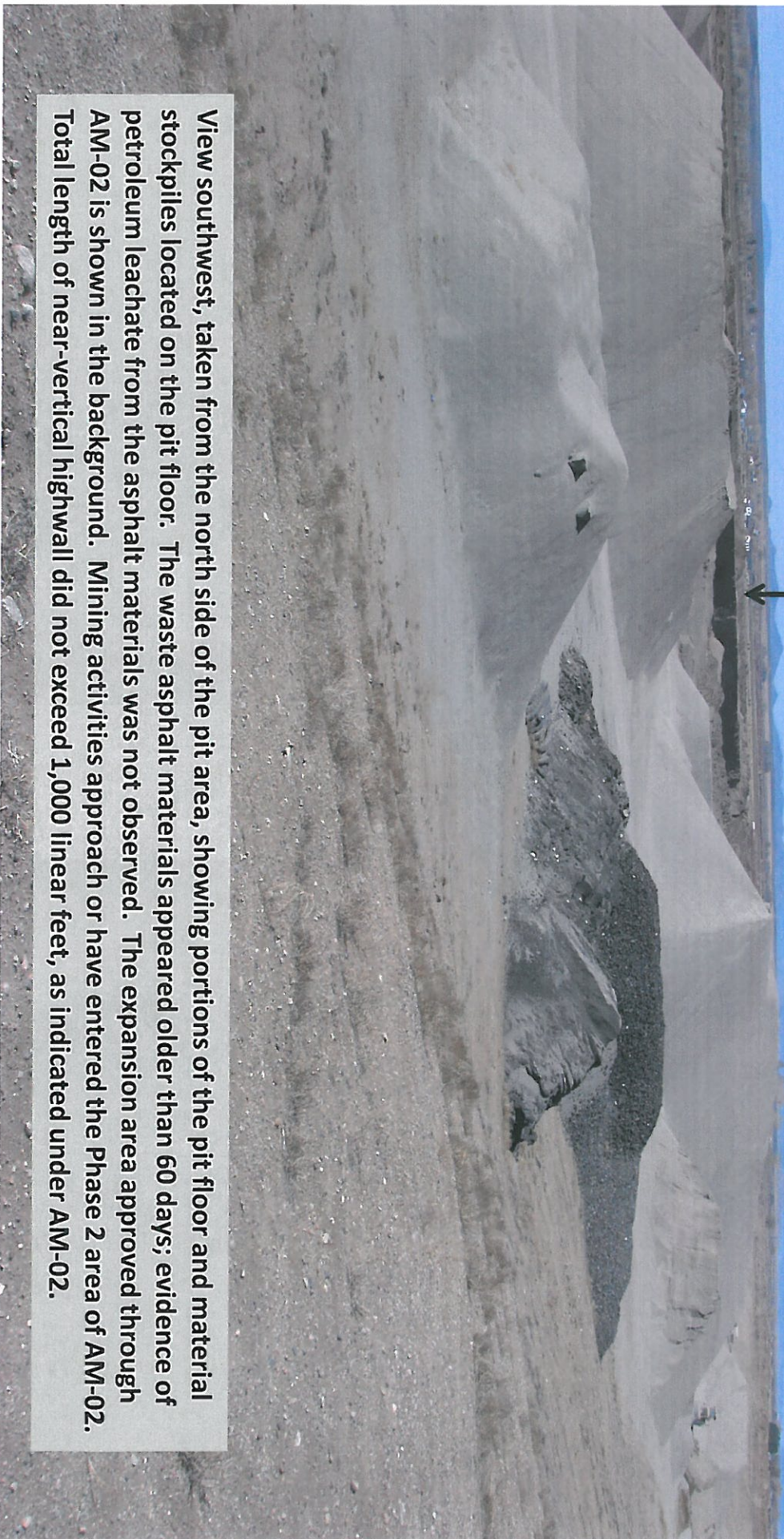


Lyle Smith Pit
M-1977-053
May 14, 2013

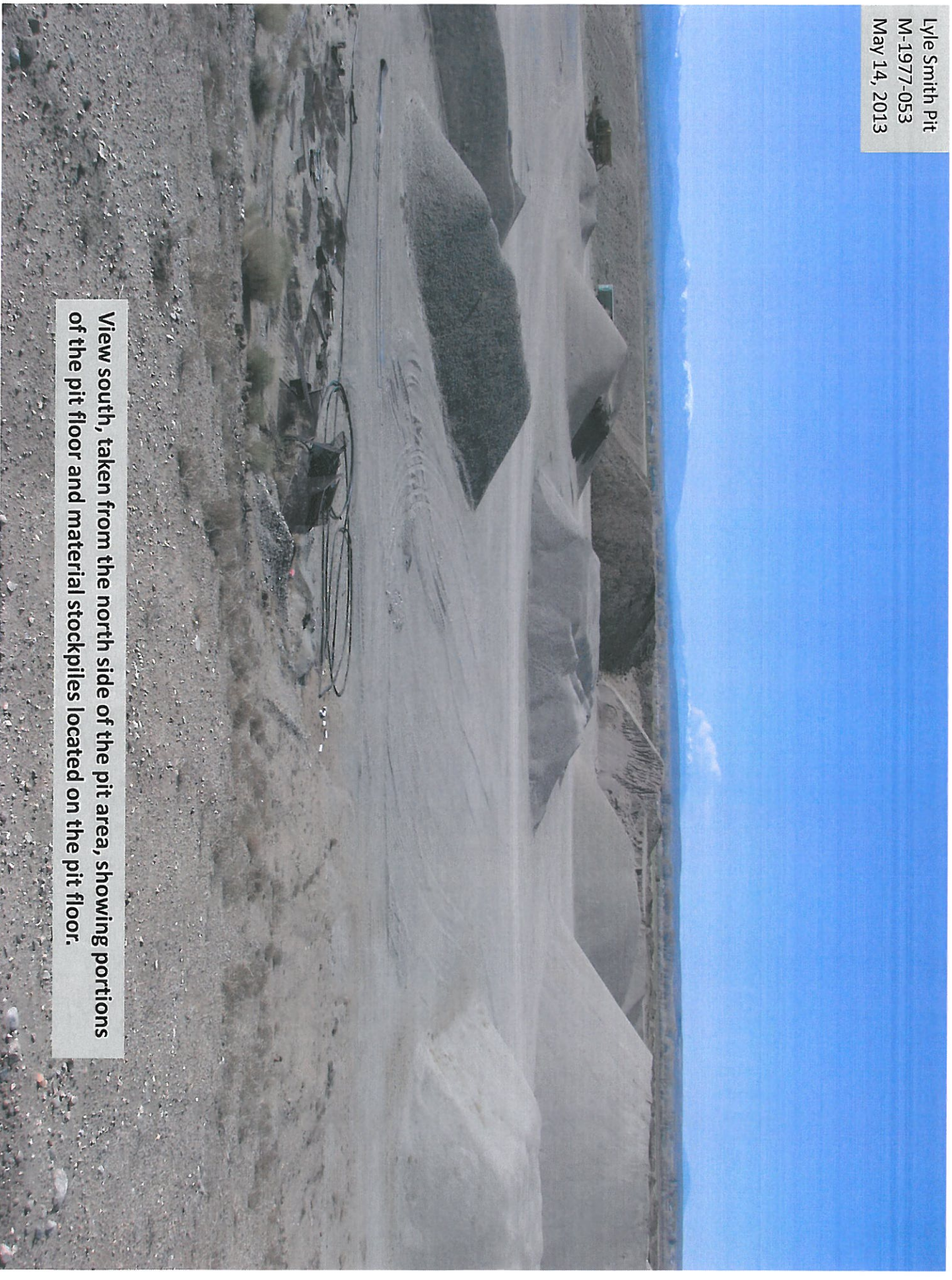
AM-02 Phase 2 area of active mining
and location of near-vertical highwall



View southwest, taken from the north side of the pit area, showing portions of the pit floor and material stockpiles located on the pit floor. The waste asphalt materials appeared older than 60 days; evidence of petroleum leachate from the asphalt materials was not observed. The expansion area approved through AM-02 is shown in the background. Mining activities approach or have entered the Phase 2 area of AM-02. Total length of near-vertical highwall did not exceed 1,000 linear feet, as indicated under AM-02.

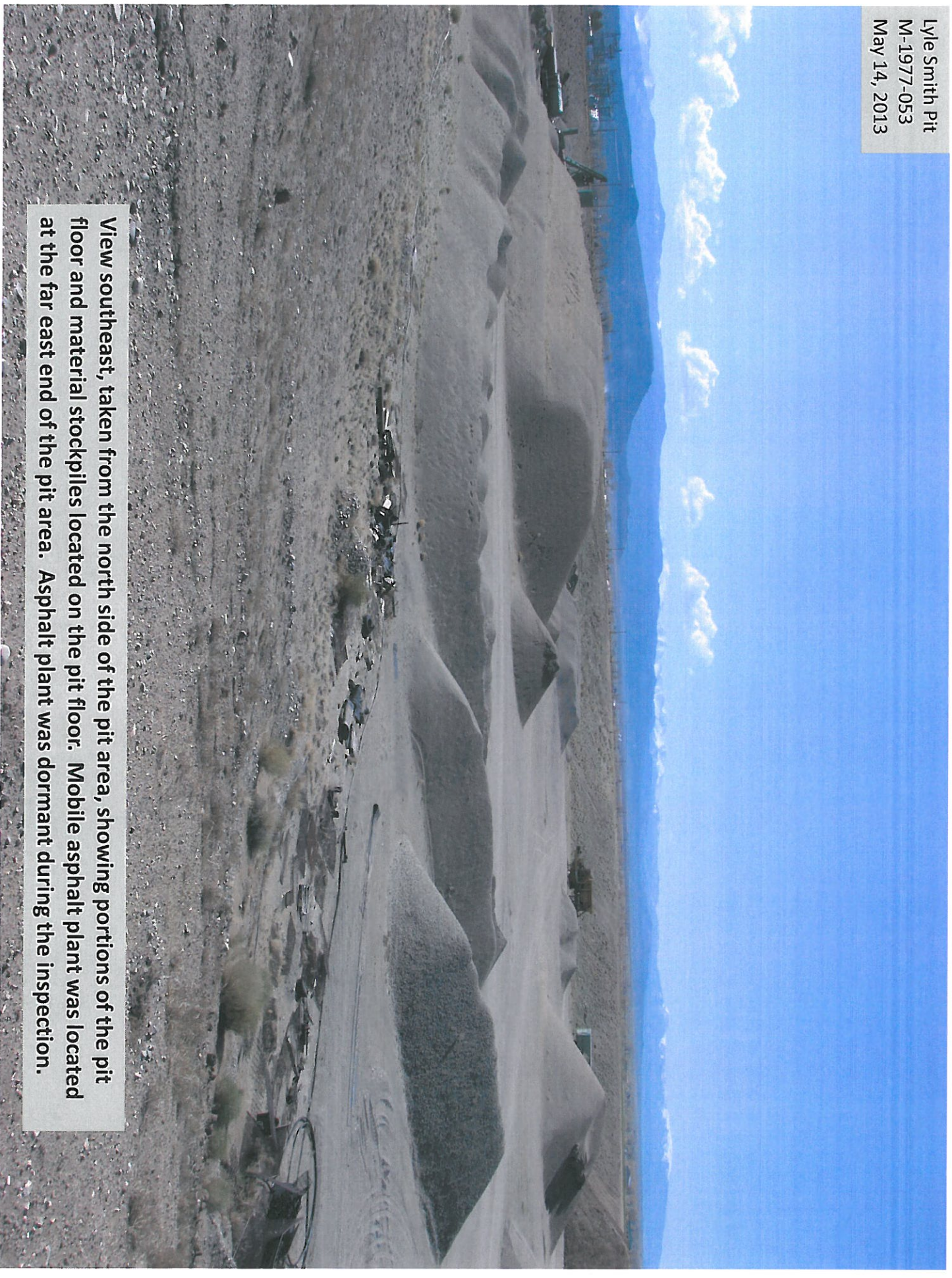


Lyle Smith Pit
M-1977-053
May 14, 2013



View south, taken from the north side of the pit area, showing portions of the pit floor and material stockpiles located on the pit floor.

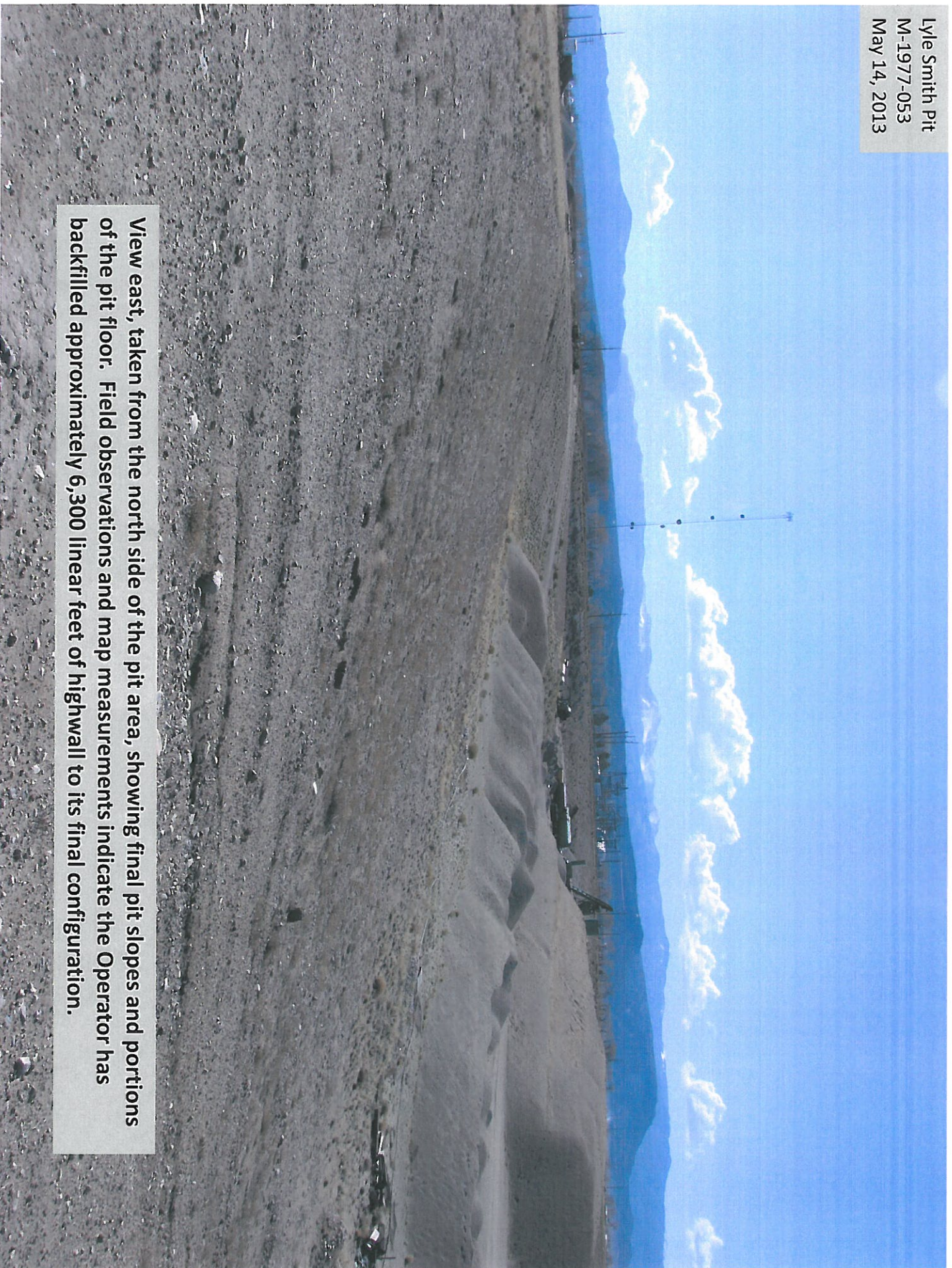
Lyle Smith Pit
M-1977-053
May 14, 2013



View southeast, taken from the north side of the pit area, showing portions of the pit floor and material stockpiles located on the pit floor. Mobile asphalt plant was located at the far east end of the pit area. Asphalt plant was dormant during the inspection.

Lyle Smith Pit
M-1977-053
May 14, 2013

View east, taken from the north side of the pit area, showing final pit slopes and portions of the pit floor. Field observations and map measurements indicate the Operator has backfilled approximately 6,300 linear feet of highwall to its final configuration.



COST SUMMARY WORK

Task description: Summary of reclamation tasks and costs

Site: Lyle Smith Pit

Permit Action: Routine bond update

Permit/Job#: M1977053

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 5/17/2013

County: Costilla

Filename: M053-000

User: WHE

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Highwall reduction from 0.5H:1V to 3H:1V	DOZER	1	4.84	\$1,247.32
002	Rip & rough grade 50 acres of pit floor area	DOZER	2	34.88	\$14,718.63
003	Topsoil replacement 46 acres at 0.5 foot depth	SCRAPER1	1	31.35	\$45,786.84
004	Revegetate 59 acres affected lands	REVEGE	1	0.00	\$35,995.90
005	Haul reclamation equipment to and from job site	MOBILIZE	1	4.00	\$7,238.41
006	Remove misc debris assume 10'Lx10'Wx10'H @ \$0.22/cu.ft.	NA	1	4.00	\$220.00
<u>SUBTOTALS:</u>				79.07	\$ \$105,207.10

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 39.54
Profit: 10.00

Total = \$2,125.18

Total = \$1,104.67

Total = \$2,585.98

Total = \$10,520.71

TOTAL O & P = \$16,336.54

CONTRACT AMOUNT (direct + O & P) = \$121,543.64

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

\$6,077.18

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$22,913.72

TOTAL BOND AMOUNT (direct + indirect) = \$128,120.82

BULLDOZER WORKTask description: Highwall reduction from 0.5H:1V to 3H:1VSite: Lyle Smith PitPermit Action: Routine bond updatePermit/Job#: M1977053**PROJECT IDENTIFICATION**Task #: 001
Date: 5/17/2013
User: WHEState: Colorado
County: CostillaAbbreviation: None
Filename: M053-001Agency 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:	\$78.33	NA
Operating Cost/Hour:	\$142.13	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$257.87
Total Fleet Cost/Hour: \$257.87**MATERIAL QUANTITIES**Initial Volume: 4,681
Swell factor: 1.000
Loose volume: 4,681 LCYSource 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/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: -10 %
Average site altitude: 7,875 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4354

Adjusted unit production: 967.85 LCY/hr

Adjusted fleet production: 967.85 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.266/LCY

Total job time: 4.84 Hours

Total job cost: \$1,247.32

Highwall Reduction

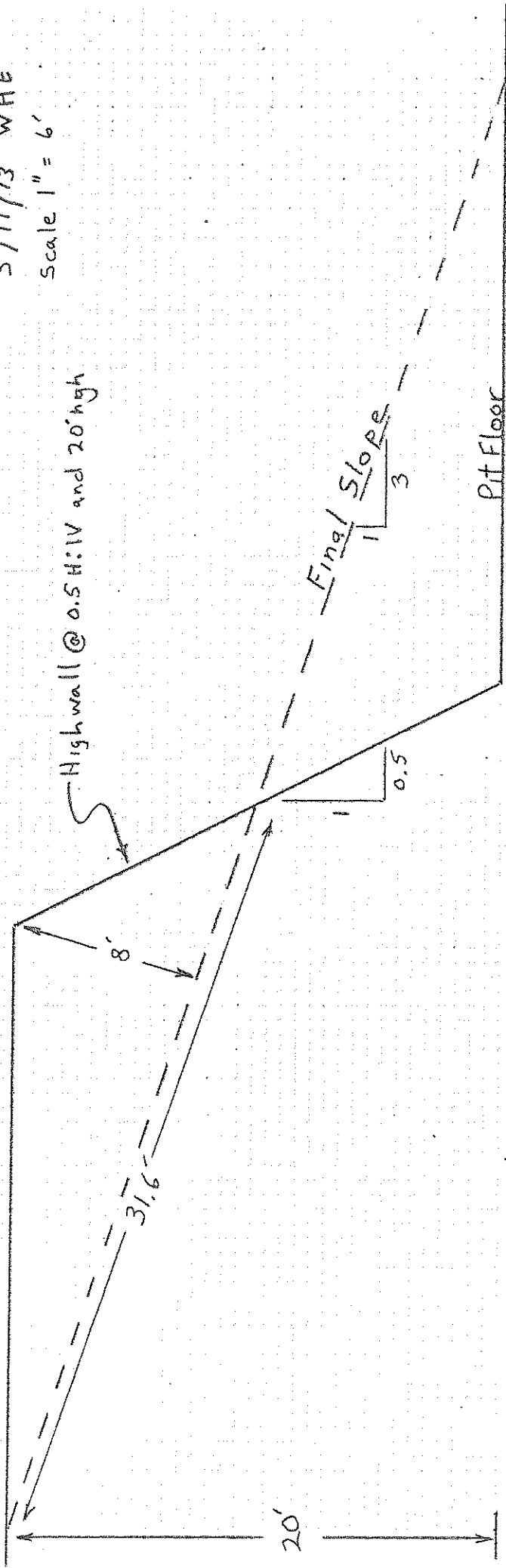
Balanced Cut & Fill

Lyle Smith Pit

M-1977-053

5/17/13 WHE

Scale 1" = 6'



$$\text{Area } \Delta = \frac{b \times h}{2} = \frac{31.6' \times 8'}{2} = 126.4 \text{ sq.ft.}$$

Assume 1,000' of highwall requiring slope reduction

$$\text{Material Quantity} = 126.4 \text{ sq.ft.} \times 1,000' L$$

$$= 126,400 \text{ cu.ft.}$$

$$= 4,681.48 \text{ cy}$$

BULLDOZER WORKTask description: Rip & rough grade 50 acres of pit floor areaSite: Lyle Smith PitPermit Action: Routine bond updatePermit/Job#: M1977053**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 5/17/2013County: CostillaFilename: M053-002User: WHEAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8UHorsepower: 310Blade Type: UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$63.00	NA
Operating Cost/Hour:	\$104.06	100
Ripper op. Cost/Hour:	\$6.53	100
Operator Cost/Hour:	\$37.41	NA

Total unit Cost/Hour: \$211.01Total Fleet Cost/Hour: \$422.03**MATERIAL QUANTITIES**Initial Volume: 40,333Swell factor: 1.000Loose volume: 40,333 LCYSource of estimated volume: (50ac)(43560sf/ac)(0.5'D) / 27 = 40,333.33 cySource of estimated swell factor: NA**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,627.0 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 7,875 feetMaterial weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 578.24 LCY/hr

Adjusted fleet production: 1156.48 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.365/LCY

Total job time: 34.88 Hours

Total job cost: \$14,718.63

SCRAPER TEAM WORKTask description: Topsoil replacement 46 acres at 0.5 foot depthSite: Lyle Smith PitPermit Action: Routine bond updatePermit/Job#: M1977053**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 5/17/2013County: CostillaFilename: M053-003User: 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	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$30.02	\$37.41	\$37.41	\$37.41	NA	NA
Unit Subtotals:	\$449.96	\$186.81	\$186.81	\$186.81	NA	NA
Number of Units:	2	1	1	1	0	0
Group Subtotals:	Work: \$1,086.73		Support: \$373.62		Maint:	\$0.00

Total work team cost/hour: \$1,460.35**MATERIAL QUANTITIES**Initial volume: 37,107

CCY

Swell factor: 1.000Loose volume: 37,107

LCY

Source of estimated volume: (46ac)(43560sf/ac)(0.5'D) / 27 = 37,106.67 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: 7875 feet

	Scraper	Push Dozer	Source
Altitude Adj:	0.950	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.789	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	1000.00	-2.00	5.00	3.00	2883	0.69

Haul Time: 0.69 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	2.00	5.00	7.00	2687	0.65

Return Time: 0.65 minutes

Total Scraper team cycle time: 3.04 minutes
 Adjusted for job conditions: 1,183.50 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 1,183.50 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 1,183.50 LCY/Hour

Unadjusted unit production/hour: 1,500.00 LCY/Hour
 Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 31.35 HoursUnit cost: \$1.234 /LCY Total job cost: \$45,786.84

REVEGETATION WORKTask description: Revegetate 59 acres affected landsSite: Lyle Smith PitPermit Action: Routine bond updatePermit/Job#: M1977053**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 5/17/2013County: CostillaFilename: 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
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
Blue Grama - Native	1.00	16.32	\$10.35
Indian Ricegrass - Native	1.00	3.24	\$6.74
Bottlebrush Squirreltail	3.00	13.22	\$74.58
Needle and Thread	2.25	5.94	\$105.73
Western Wheatgrass - Native	3.00	7.58	\$9.12
Sagebrush, Wyoming Big	0.50	29.57	\$17.63
Totals Seed Mix	10.75	75.87	\$224.14

Application

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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
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.24	\$16.24
Total Mulch Materials Cost/Acre				\$16.24

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$61.49
Total Mulch Application Cost/Acre	\$61.49

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: 59 Cost /Acre: \$488.08
 Estimated Failure Rate: 25% Cost /Acre*: \$488.08
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$28,796.72
 Reseeding Job Cost: \$7,199.18
 Total Job Cost: \$35,995.90
 Job Hours: 0.00

EQUIPMENT MOBILIZATION/DEMobilIZATIONTask description: Haul reclamation equipment to and from job siteSite: Lyle Smith PitPermit Action: Routine bond updatePermit/Job#: M1977053**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 5/17/2013County: CostillaFilename: M053-005User: WHEAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per day
Cost 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 D9T - 9U	66.78	\$78.33	\$125.45	2	\$407.55	\$250.90	\$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

Subtotals: **\$1,170.38** **\$679.14** **\$1,500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$32.79	1	\$32.79	\$32.79
Light Duty Pickup, 4x4, 3/4 T.	\$15.34	1	\$15.34	\$15.34

Subtotals: **\$48.13** **\$48.13**

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:	60.00	mph

Total Non-Roadable Mob/Demob Cost *	\$7,190.28
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$48.13
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.50	0.50
Return Time (Hours):	0.50	0.50
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.00	1.00

JOB TIME AND COST

Total job time: 4.00 Hours

Total job cost: \$7,238.41