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: Gallegos Pit	**MINE/PROSPECTING ID#:** M-1983-164	**MINERAL:** Sand and gravel	**COUNTY:** Conejos
INSPECTION TYPE: Monitoring	**INSPECTOR(S):** Wallace H. Erickson	**INSP. DATE:** April 10, 2014	**INSP. TIME:** 11:10
OPERATOR: George F. Gallegos	**OPERATOR REPRESENTATIVE:** George Gallegos	**TYPE OF OPERATION:** 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	**BOND CALCULATION TYPE:** Complete Bond	**BOND AMOUNT:** $28,034.00	
DATE OF COMPLAINT: NA	**POST INSP. CONTACTS:** None	**JOINT INSP. AGENCY:** None	
WEATHER: Cloudy	**INSPECTOR'S SIGNATURE:** Wallace H. Erickson	**SIGNATURE DATE:** May 16, 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---------- Y	(FN) FINANCIAL WARRANTY---------- PB	(RD) ROADS---------- Y
(HB) HYDROLOGIC BALANCE----------Y	(BG) BACKFILL & GRADING---------- Y	(EX) EXPLOSIVES---------- NA
(PW) PROCESSING WASTE/TAILING------- Y	(SF) PROCESSING FACILITIES---------- NA	(TS) TOPSOIL---------- PB
(MP) GENL MINE PLAN COMPLIANCE----- Y	(FW) FISH & WILDLIFE---------- Y	(RV) REVEGETATION--------Y
(SM) SIGNS AND MARKERS---------- Y	(SP) STORM WATER MGT PLAN-------- N	(SB) COMPLETE INSP--------Y
(ES) OVERBURDEN/DEV. WASTE---------- Y	(SC) EROSION/SEDIMENTATION--------Y	(RS) RECL PLAN/COMP-----Y
(AT) ACID OR TOXIC MATERIALS---------- Y	(OD) OFF-SITE DAMAGE----------Y	(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

INSPECTION TOPIC: Financial Warranty
PROBLEM: The Division has reviewed the current cost of reclamation totaling $70,290.97. Therefore, the existing $28,034 financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan and applicable requirements of the Act and Rules. This is a failure to maintain a proper amount of financial warranty as necessary 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 report, due July 15, 2014, to provide $42,256.97 additional surety, to ensure a total financial warranty not less than $70,290.97, or advance the reclamation and thereby render the existing financial warranty adequate.
CORRECTIVE ACTION DUE DATE: July 15, 2014

INSPECTION TOPIC: Topsoil: locations, volumes, and protection of topsoil stockpiles
PROBLEM: The approved mining and reclamation plans indicate topsoil will be salvaged and stockpiled along the north side of the pit area and maintained for reclamation purposes. Topsoil was observed stockpiled not only at the north side of the pit area, but also at unspecified locations along the east, south and west sides of the pit area. Pursuant to section 34-32.5-112(4) C.R.S., the locations and volumes of topsoil stockpiles must be identified within the permit documents. Additionally, the topsoil stockpiles did not exhibit a protective vegetative cover and are thereby susceptible to erosion and/or contamination due to infestation by noxious weeds. Pursuant to section 34-32.5-116(4)(g) C.R.S., topsoil shall be salvaged and segregated from other spoil. If such topsoil is not replaced on a backfill area within a period of time short enough to avoid deterioration of the topsoil, vegetative cover or other means shall be employed so that such topsoil is preserved from wind and water erosion, remains free of contamination, and is in a useable condition for sustaining vegetation when restored during reclamation. The Division has specified one year as the period of time whereby the Operator shall establish a protective vegetative cover for stockpiled topsoil.
CORRECTIVE ACTIONS: Within 60 days of the signature date of this inspection report, due July 15, 2014, the Operator must file with the Division a modification to the permit identifying all locations and volumes of topsoil stockpiles and addressing how topsoil stockpiles will be preserved from wind and water erosion, remains free of contamination, and is in a useable condition for sustaining vegetation when restored during reclamation. The modification shall be filed with the Division through either the Technical Revision process, described under Rules 1.1(49) and 1.9, or the Amendment process, described under Rules 1.1(6) and 1.10.
CORRECTIVE ACTION DUE DATE: July 15, 2014

OBSERVATIONS

This inspection occurred as part of the Division's routine monitoring plan for permitted operations. The Gallegos Pit is approved for 65.19 acres affected lands for the extraction and processing of construction materials. Affected lands will be reclaimed to support rangeland post-mining land use. The Division holds $28,034 financial warranty. This report is accompanied by two images from Google Earth, four photographs taken during the inspection, and an updated reclamation cost estimation totaling $70,290.97.

As shown on the enclosed images from Google Earth, the affected lands were appropriately contained within the approved boundaries. The Google 1 image represents the view from approximately 2,700 feet above ground surface, resulting in a scale of approximately 1:3,678 or 1 inch = 306 feet. The Google 2 image represents the view from approximately 1,500 feet above ground surface, resulting in a scale of approximately 1:2,160 or 1 inch = 180 feet. Based upon observations made during the inspection, measurements taken from

the maps of the permit, and measurements taken from the Google Earth images, the Division estimates the current area of the affected lands at approximately 20 acres. This is in conflict with the most recent annual report, signed by the Operator on August 2, 2013, which reported the extent of affected lands at seven acres.

The annual reports are critical permit documents intended to record the progress of the operation. Pursuant to section 34-32.5-116(3)(a) C.R.S. and Rule 1.15(1), the annual report must specify the number of acres currently affected. Please review section 34-32.5-116(3)(a) C.R.S., Rule 1.15(1), and the annual report form provided by the Division for a complete listing of information required from the Operator on an annual basis. The information provided on the annual report form must be illustrated on a map accompanying the report. The information provided on the report form and map must be in agreement; the information provided on the annual report map must not contradict the information provided on the annual report form. Incomplete, misleading, and/or contradictory information on the annual report and associated map may be interpreted as a failure to comply with the requirements of section 34-32.5-116(3)(a) C.R.S. and Rule 1.15(1).

Given the date of the Operator's signature on the annual report (August 2, 2013) and the date of the Google Earth images (November 17, 2013), the Division at this time has insufficient evidence to pursue enforcement action for failure to comply with the requirements of section 34-32.5-116(3)(a) C.R.S. and Rule 1.15(1). The Operator is strongly encouraged to provide all of the information requested on the annual report form and to ensure the accuracy and consistency of all information provided in future annual reports and associated maps.

As shown on the enclosed Google Earth images and the photographs taken during the inspection, the slopes of the pit highwalls ranged from 1H:1V to 3H:1V. The 3H:1V slopes were limited to the north highwall (see Google 2 and Photo 3). The Operator indicated the 3H:1V slope represented the final configuration of the reclaimed slope. This is in conflict with the conditions of the approved reclamation plan, which indicate final slopes will be no steeper than 10H:1V. If the Operator desires final slopes at 3H:1V and not 10H:1V, the Operator must modify the conditions of the approved reclamation plan through either the Technical Revision process, described under Rules 1.1(49) and 1.9, or the Amendment process, described under Rules 1.1(6) and 1.10. In the absence of such modification the Division will require the Operator to reduce all pit slopes to no steeper than 10H:1V, as currently stated in the approved reclamation plan.

The approved mining and reclamation plans indicate topsoil will be salvaged and stockpiled along the north side of the pit area and maintained for reclamation purposes. Topsoil was observed stockpiled not only at the north side of the pit area, but also at unspecified locations along the east, south and west sides of the pit area. Pursuant to section 34-32.5-112(4) C.R.S., the locations and volumes of topsoil stockpiles must be identified within the permit documents. Additionally, the topsoil stockpiles did not exhibit a protective vegetative cover. As shown in Photos 1 through 4, evidence of wind erosion was observed for the topsoil stockpile located at the north end of the pit area. The wind erosion is evident due to the cover of cobbles and pebbles, which have been concentrated on the surface due to the removal of the fine particles. The local winds are sufficient to remove the fine particles but insufficient to remove the larger sized particles. Pursuant to section 34-32.5-116(4)(g) C.R.S., topsoil shall be salvaged and preserved for reclamation purposes.

Therefore, the Division has noted a problem regarding the unspecified locations and volumes of stockpiled topsoil, and the absence of a protective vegetative cover for the topsoil stockpiles, and has imposed corrective actions and a deadline whereby the corrective actions must be resolved. Details of the corrective actions and deadline are provided on page two of this inspection report.

Notice to Increase the Financial Warranty

The conditions of the approved permit indicate a phased mine plan with contemporaneous reclamation whereby the un-reclaimed affected lands are limited to approximately three acres at any given time. Such permit conditions limit the reclamation liability to a minimum amount. The amount of reclamation liability incurred by the operation is reflected in the amount of financial warranty required by the Division. Thus, Operators who voluntarily place such conditions within their permit benefit by correspondingly low financial warranties, but only if the Operator complies with the self-imposed limitation on liability.

Observations made during the inspection and recorded in this report estimate the un-reclaimed affected lands at approximately 20 acres. Clearly, the Operator is not conducting contemporaneous reclamation, as indicated in the approved plan, and is not complying with the self-imposed limitation on liability.

Pursuant to Rule 4.2.1(4), the Division has reviewed the current cost of reclamation totaling $70,290.97. Please find enclosed 14 pages of summary, drawing and task sheets utilized by the Division to calculate the current cost of reclamation. The Division's reclamation cost estimation is based on current site conditions, conditions of the approved reclamation plan, and the applicable requirements of the Act and Rules.

Therefore, the existing $28,034 financial warranty is insufficient to ensure the completion of reclamation. The Division has noted a problem regarding the amount of financial warranty and has imposed corrective actions and a deadline whereby the corrective actions must be resolved. Additional details of the corrective actions and deadline are provided on page two of this inspection report.

Attachment: Certificate of Service

Enclosures:
1) Two images from Google Earth;
2) Four photographs taken during the inspection; and
3) Updated reclamation cost estimation totaling $70,290.97

Ec w/enclosures: Russ Means, DRMS GJFO

Certificate of Service

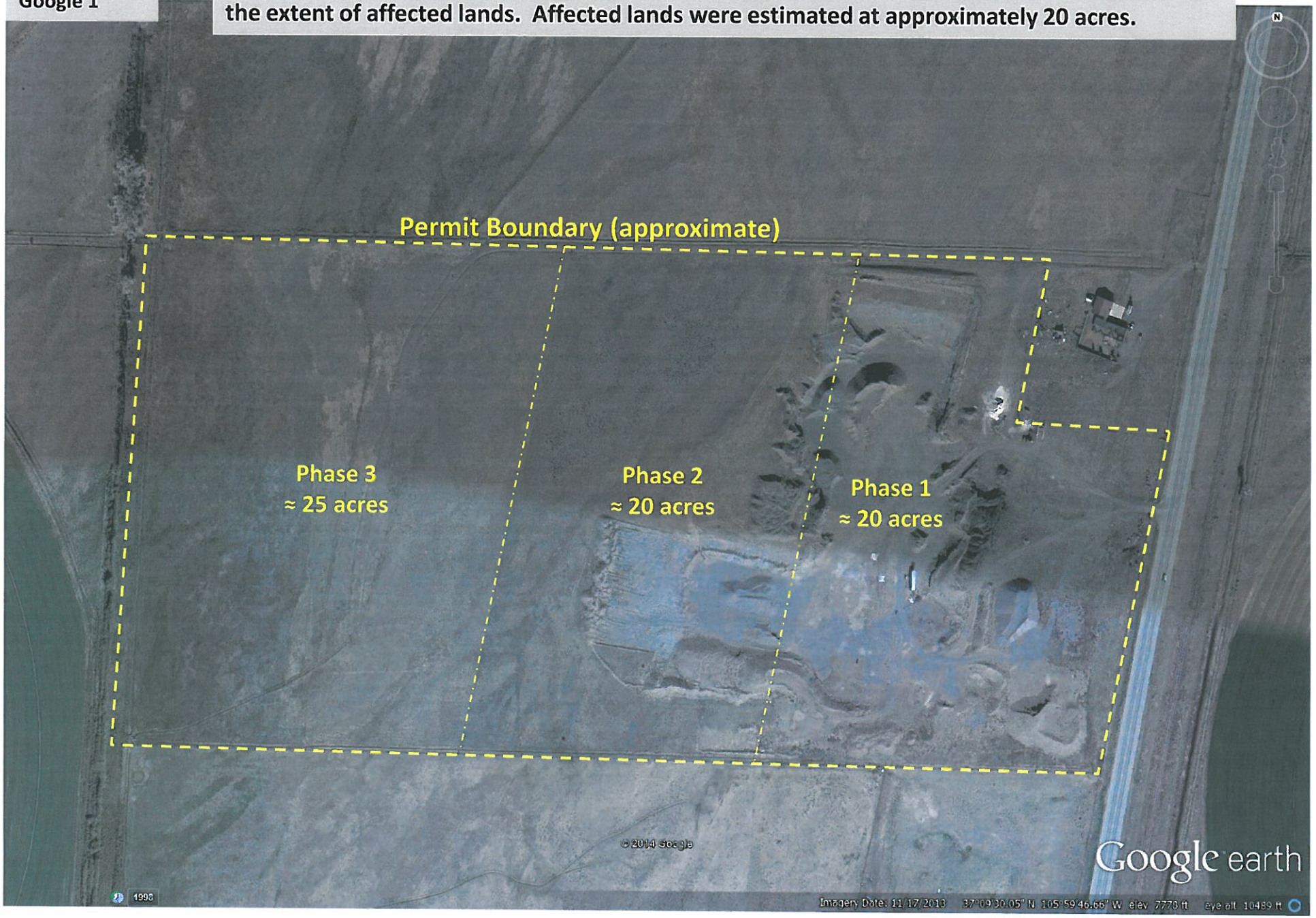
I, Wallace H. Erickson, hereby certify that on this 16th day of May, 2014, placed a true copy of the foregoing inspection report generated from the April 10, 2014, inspection of the Gallegos Pit, Permit No. M-1983-164, signed May 16, 2014, with enclosures, in the US Mail, first class postage affixed and addressed to the following:

George F. Gallegos
P.O. Box 575
Romeo, CO 81148

Wallace H. Erickson 5/16/14

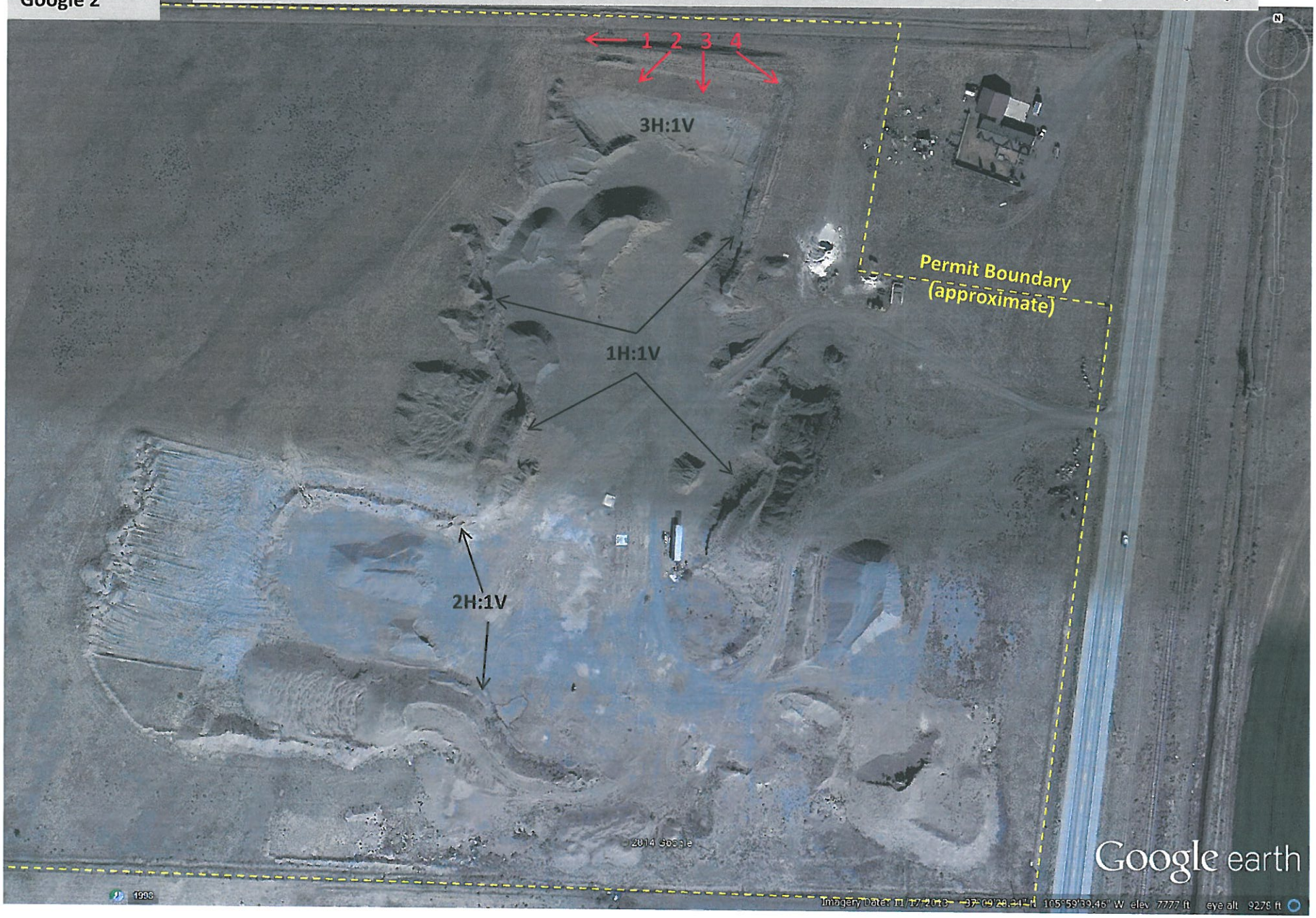
Gallegos Pit
M-1983-164
Google 1

Google Earth imagery, dated November 17, 2013 (north half of image) and September 28, 2013 (south half of image), showing the permit boundary, the various phases of the operation, and the extent of affected lands. Affected lands were estimated at approximately 20 acres.

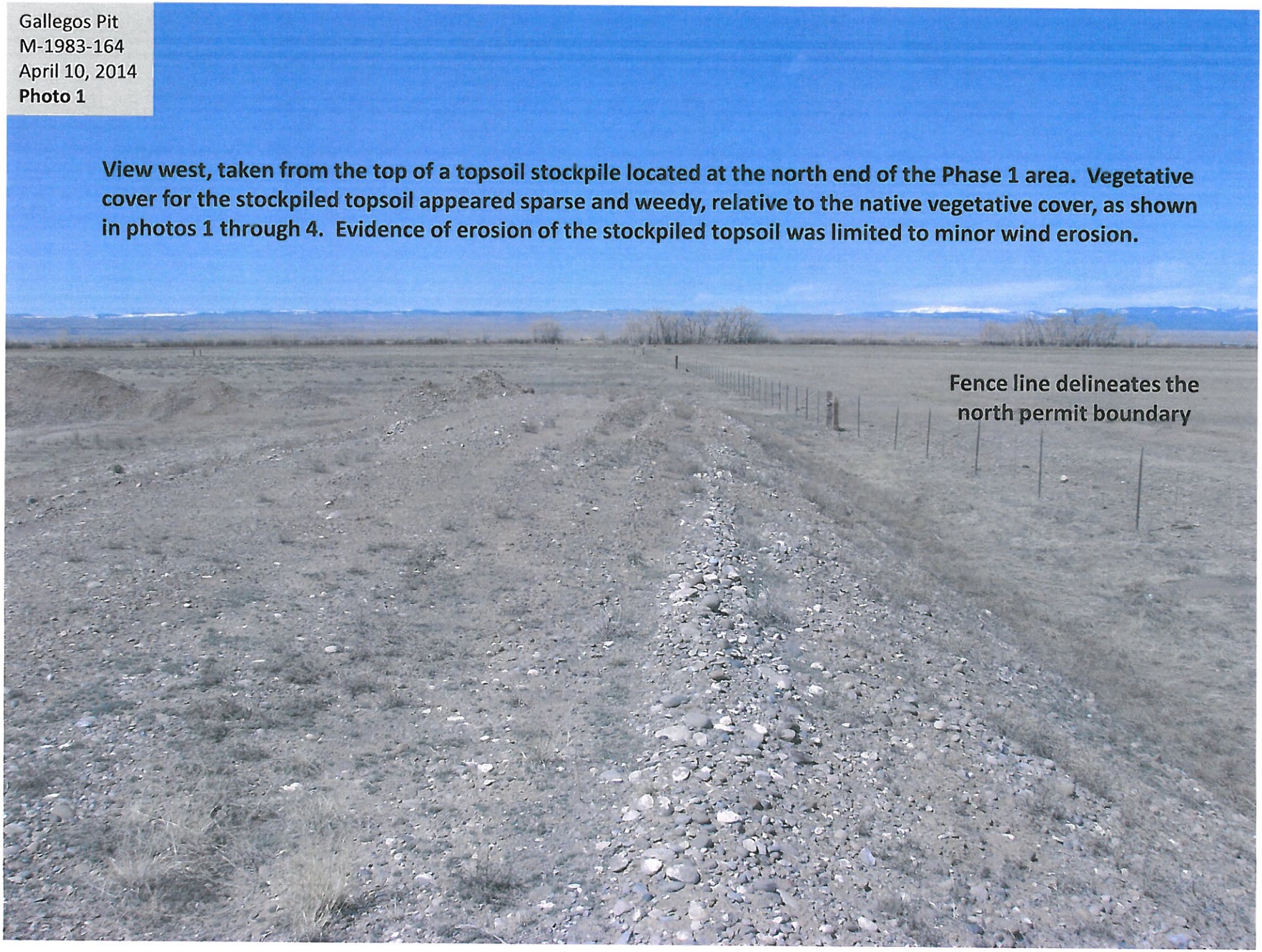


Gallegos Pit
M-1983-164
Google 2

Google Earth imagery, dated November 17, 2013 (north half of image) and September 28, 2013 (south half of image), showing the locations of four photographs taken during the inspection (red).



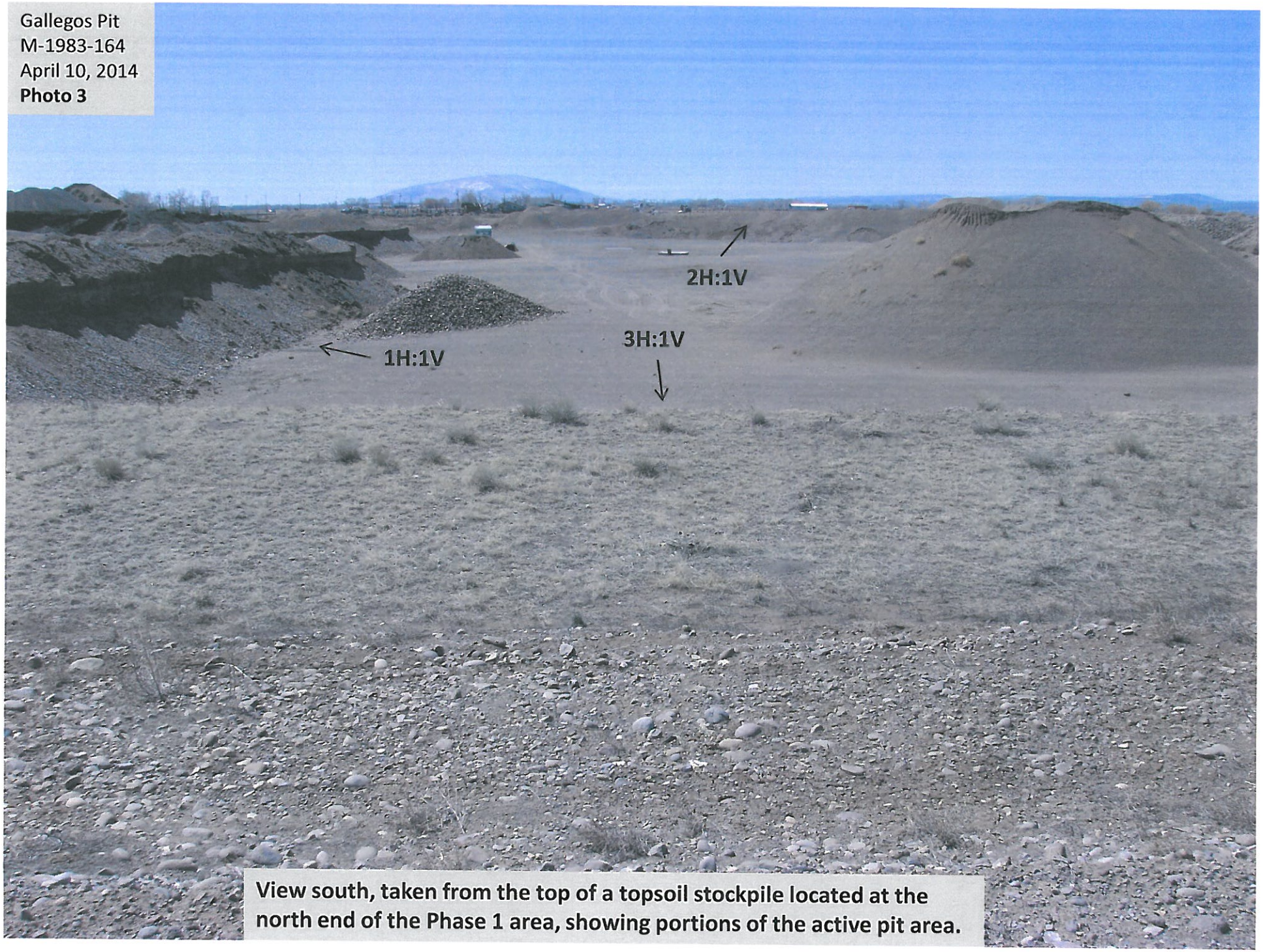
Gallegos Pit
M-1983-164
April 10, 2014
Photo 1



Gallegos Pit
M-1983-164
April 10, 2014
Photo 2

View southwest, taken from the top of a topsoil stockpile located at the north end of the Phase 1 area, showing portions of the active pit area.

Gallegos Pit
M-1983-164
April 10, 2014
Photo 3



View south, taken from the top of a topsoil stockpile located at the north end of the Phase 1 area, showing portions of the active pit area.

Gallegos Pit
M-1983-164
April 10, 2014
Photo 4

View southeast, taken from the top of a topsoil stockpile located at the north end of the Phase 1 area, showing portions of the active pit area.

COST SUMMARY WORK

Task description: **Summary of reclamation tasks and costs**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-000
User: WHE

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Highwall reduction from 1.5H:1V to 3H:1V	DOZER	1	3.73	$985.78
002	Rough grade and rip 15 acres affected lands	DOZER	1	14.61	$3,929.54
003	Topsoil replacement for 3H:1V reduced highwalls	DOZER	1	3.55	$930.22
004	Topsoil replacement for 15 acres, pit floor and flat areas	DOZER	1	70.90	$18,595.14
005	Revegetate 20 acres affected lands	REVEGE	1	20.00	$29,414.50
006	Haul reclamation equipment to and from job site	MOBILIZE	1	3.84	$4,929.27
		SUBTOTALS:		**116.63**	**$58,784.45**

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	$1,187.45
Performance bond:	1.05%	Total =	$617.24
Job superintendent:	0.00 hrs	Total =	$0.00
Profit:	10.00%	Total =	$5,878.45
		TOTAL O & P =	$7,683.14
		CONTRACT AMOUNT (direct + O & P) =	$66,467.59

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%		$3,323.38
CONTINGENCY:	0.00	Total =	$0.00
		TOTAL INDIRECT COST =	$11,506.52
		TOTAL BOND AMOUNT (direct + indirect) =	**$70,290.97**

BULLDOZER WORK

Task description: **Highwall reduction from 1.5H:1V to 3H:1V**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-001
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:

		Utilization %
Ownership Cost/Hour:	$81.10	NA
Operating Cost/Hour:	$143.16	100
Ripper op. Cost/Hour:	$2.23	25
Operator Cost/Hour:	$38.01	NA

Total unit Cost/Hour: $264.49
Total Fleet Cost/Hour: **$264.49**

MATERIAL QUANTITIES

Initial Volume: 3,483
Swell factor: 1.124
Loose volume: **3,914** LCY

Source of estimated volume: See attached drawing, "Highwall Reduction"
Source of estimated swell factor: Cat Handbook

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: -15 %
Average site altitude: 7,700 feet

Material weight: 2,900 lbs/LCY

Weight description: Sand and gravel - Dry

Job Condition Correction Factor		Source
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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4724

Adjusted unit production: 1,050.10 LCY/hr
Adjusted fleet production: **1050.1** LCY/hr

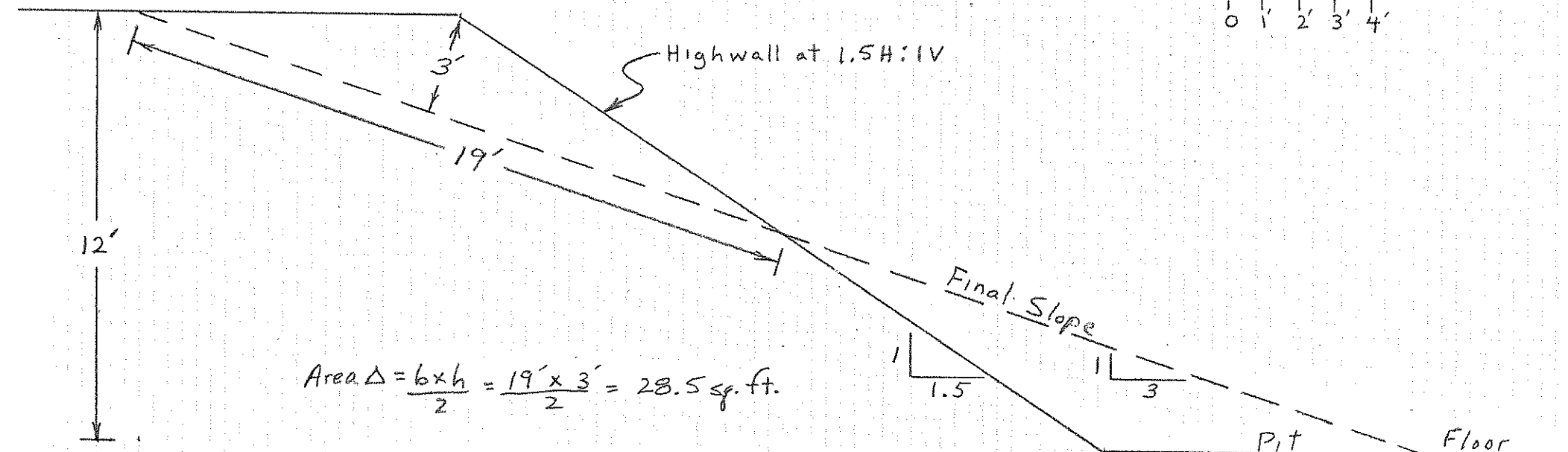
JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.252/LCY

Total job time: **3.73** Hours
Total job cost: **$985.78**

Highwall Reduction
Balanced Cut and Fill

Gallegos Pit
M-1983-164
5/15/14 WHE
Scale 1" = 4'



Area $\Delta = \frac{b \times h}{2} = \frac{19' \times 3'}{2} = 28.5$ sq. ft.

Assume 3,300 LF of highwall requires slope reduction

Material Quantity = 3,300 LF x 28.5 sq. ft.
= 94,050 cu. ft
= 3,483.33 cy

Area of final 3H:1V slope = 3,300 LF x 37.9 ft.
= 125,070 sq. ft
+ 9,096 sq. ft.
134,166 sq. ft. = 3.08 acres

Approximately 240 LF highwall already at 3H:1V
240 LF x 37.9 ft
= 9,096 sq. ft.

BULLDOZER WORK

Task description: **Rough grade and rip 15 acres affected lands**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-002
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:

		Utilization %
Ownership Cost/Hour:	$81.10	NA
Operating Cost/Hour:	$143.16	100
Ripper op. Cost/Hour:	$6.68	75
Operator Cost/Hour:	$38.01	NA

Total unit Cost/Hour: $268.94
Total Fleet Cost/Hour: **$268.94**

MATERIAL QUANTITIES

Initial Volume: 12,100
Swell factor: 1.060
Loose volume: **12,826** LCY

Source of estimated volume: (15ac)(43560sf/ac)(0.5'D) / 27 = 12,100 cy
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

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

Materials consistency description: Consolidated stockpile 1.0

Average push gradient: 0 %
Average site altitude: 7,700 feet

Material weight: 2,900 lbs/LCY

Weight description: Sand and gravel - Dry

Job Condition Correction Factor

		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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: 0.3949

Adjusted unit production: 877.82 LCY/hr
Adjusted fleet production: **877.82** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.306/LCY

Total job time: **14.61** Hours
Total job cost: **$3,929.54**

BULLDOZER WORK

Task description: **Topsoil replacement for 3H:1V reduced highwalls**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-003
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:

		Utilization %
Ownership Cost/Hour:	$81.10	NA
Operating Cost/Hour:	$143.16	100
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$38.01	NA

Total unit Cost/Hour: $262.26
Total Fleet Cost/Hour: **$262.26**

MATERIAL QUANTITIES

Initial Volume: 3,313
Swell factor: 1.125
Loose volume: **3,727** LCY

Source of estimated volume: (134,166sq.ft.)(0.67'D) / 27 = 3,312.74 cy
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 75 feet
Unadjusted hourly production: 1,600.0 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: -15 %
Average site altitude: 7,700 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6567

Adjusted unit production: 1,050.72 LCY/hr
Adjusted fleet production: **1050.72** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.250/LCY

Total job time: **3.55** Hours
Total job cost: **$930.22**

BULLDOZER WORK

Task description: **Topsoil replacement for 15 acres, pit floor and flat areas**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-004
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:

		Utilization %
Ownership Cost/Hour:	$81.10	NA
Operating Cost/Hour:	$143.16	100
Ripper op. Cost/Hour:	$0.00	0
Operator Cost/Hour:	$38.01	NA

Total unit Cost/Hour: $262.26
Total Fleet Cost/Hour: **$262.26**

MATERIAL QUANTITIES

Initial Volume: 16,141
Swell factor: 1.125
Loose volume: **18,159** LCY

Source of estimated volume: (15ac)(43560sf/ac)(0.667'D) / 27 = 16,141.4 cy
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 300 feet
Unadjusted hourly production: 464.9 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: -5 %
Average site altitude: 7,700 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor		Source
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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5509

Adjusted unit production: 256.11 LCY/hr
Adjusted fleet production: **256.11** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $1.024/LCY

Total job time: **70.90** Hours
Total job cost: **$18,595.14**

REVEGETATION WORK

Task description: **Revegetate 20 acres affected lands**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-005
User: WHE

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	$0.33	$65.40
			Total Fertilizer Materials Cost/Acre	**$65.40**

Application

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

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	$2.28
Sand Dropseed	0.10	11.94	$0.70
Crested Wheatgrass - Nordan	2.00	9.18	$4.66
Thickspike Wheatgrass - Critana	3.00	10.61	$15.51
Western Wheatgrass - Native	5.00	12.63	$15.20
Sagebrush, Mountain or Big	0.10	5.28	$3.37
Globemallow, Scarlet (or copper)	0.50	5.66	$70.24
Totals Seed Mix	10.80	59.20	**$111.96**

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: 20 Cost /Acre: $1,176.58
Estimated Failure Rate: 25% Cost /Acre*: $1,176.58
*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MULCHING

Initial Job Cost: **$23,531.60**
Reseeding Job Cost: **$5,882.90**
Total Job Cost: **$29,414.50**
Job Hours: **20.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Haul reclamation equipment to and from job site**

Site: **Gallegos Pit** Permit Action: Routine bond update Permit/Job#: M1983164

PROJECT IDENTIFICATION

Task #: 006 State: Colorado Abbreviation: None
Date: 5/15/2014 County: Conejos Filename: M164-006
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	$81.10	$125.45	1	$206.55	$125.45	$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:					**$654.46**	**$480.13**	**$1,250.00**

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	$83.18	1	$83.18	$83.18
Subtotals:			**$83.18**	**$83.18**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	ALAMOSA	
Total one-way travel distance:	23.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	$4,852.74	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	$76.53	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.46	0.46
Return Time (Hours):	0.46	0.46
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.92	0.92

JOB TIME AND COST

Total job time:	**3.84**	Hours
Total job cost:	**$4,929.27**	