

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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Robins Pit No. 1	M-2002-014	Gravel	Conejos
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Wallace H. Erickson	Nov. 20, 2013	12:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATIO	N:
Robins Construction, LLLP	Randy Robins, Scott Johnson	112c - Construction	Regular Operation
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Complete Bond	\$33,050.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENO	CY:
NA	None	None	
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:	
Cloudy	Walker St.	March 26, 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 PB	(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 Y	(SF) PROCESSING FACILITIES Y	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE Y	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN N	(SB) COMPLETE INSP <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE Y	(SC) EROSION/SEDIMENTATION <u>Y</u>	(RS) RECL PLAN/COMP <u>Y</u>
(AT) ACID OR TOXIC MATERIALS Y	(OD) OFF-SITE DAMAGE Y	(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

PERMIT #: M-2002-014 INSPECTOR'S INITIALS: WHE INSPECTION DATE: November 20, 2013

INSPECTION TOPIC: Financial Warranty

PROBLEM: The Division has reviewed the current cost of reclamation totaling \$41,334.71. Therefore, the existing financial warranty, in the amount of \$33,050.00, 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 the financial warranty at the current cost of reclamation, 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 May 26, 2014, to provide \$8,284.71 additional surety, to ensure a total financial warranty not less than \$41,334.71, or advance the reclamation and thereby render the existing financial warranty adequate. **CORRECTIVE ACTION DUE DATE:** May 26, 2014

OBSERVATIONS

This inspection occurred as part of the Division routine monitoring of permitted operations. The Robins Pit No. 1 permit is approved for 18.7 acres affected land for the excavation and processing of construction materials. Affected lands will be reclaimed to support residential development post-mining land use. The Division holds \$33,050 financial warranty. This report is accompanied by an image from Google Earth, dated September 28, 2013, and modified to illustrate the permit boundary and locations of photographs; two photographs taken during the inspection; and an updated reclamation cost estimation totaling \$41,334.71.

Mine identification sign was posted at the mine entrance. Affected lands were appropriately delineated. Public access to the affected lands is controlled by locked gate and fencing. The mining and reclamation activities were dormant and appeared compliant with the conditions of the approved permit.

As illustrated on the enclosed Google Earth image, the mining activity has affected most of the lands of the original 110c permit (9.84 acres area) and has advanced into the additional lands (8.69 acres area) permitted under CN-01. CN-01 was approved on July 1, 2010. The pit area is incised and exhibited internal drainage. Approximately 1,300 lineal feet of the highwall has been reduced to its final configuration, 3H:1V, and stabilized with vegetative cover. These reclaimed areas are located within the original 110c permit area. Active highwalls, at near vertical configuration and/or needing slope reduction during final reclamation, were estimated at 2,500 lineal feet and averaging approximately 10 feet high. Topsoil had been salvaged, stockpiled above the advancing highwall, and is available for reclamation. The extent of un-reclaimed affected lands was estimated at 13 acres.

Based on observations made during the inspection and recorded within this report, and on conditions of the approved reclamation plan, and the applicable sections of the Act and Rules, the Division has reviewed the current cost of reclamation totaling \$41,334.71. Please find enclosed 12 pages of summary, drawing and work sheets utilized by the Division to calculate the current cost of reclamation. Therefore, the existing \$33,050 financial warranty is insufficient to ensure the completion of reclamation. The Division has noted a problem with the financial warranty and has imposed a corrective action deadline whereby the problem must be resolved. Details of the corrective action and associated deadline are provided above.

Attachment: Certificate of Service

Enclosures: 1) Google Earth image dated September 28, 2013;

- 2) Two photographs taken during the inspection; and
- 3) Updated reclamation cost estimation totaling \$41,334.71

PERMIT #: M-2002-014 INSPECTOR'S INITIALS: WHE

INSPECTION DATE: November 20, 2013

Certificate of Service

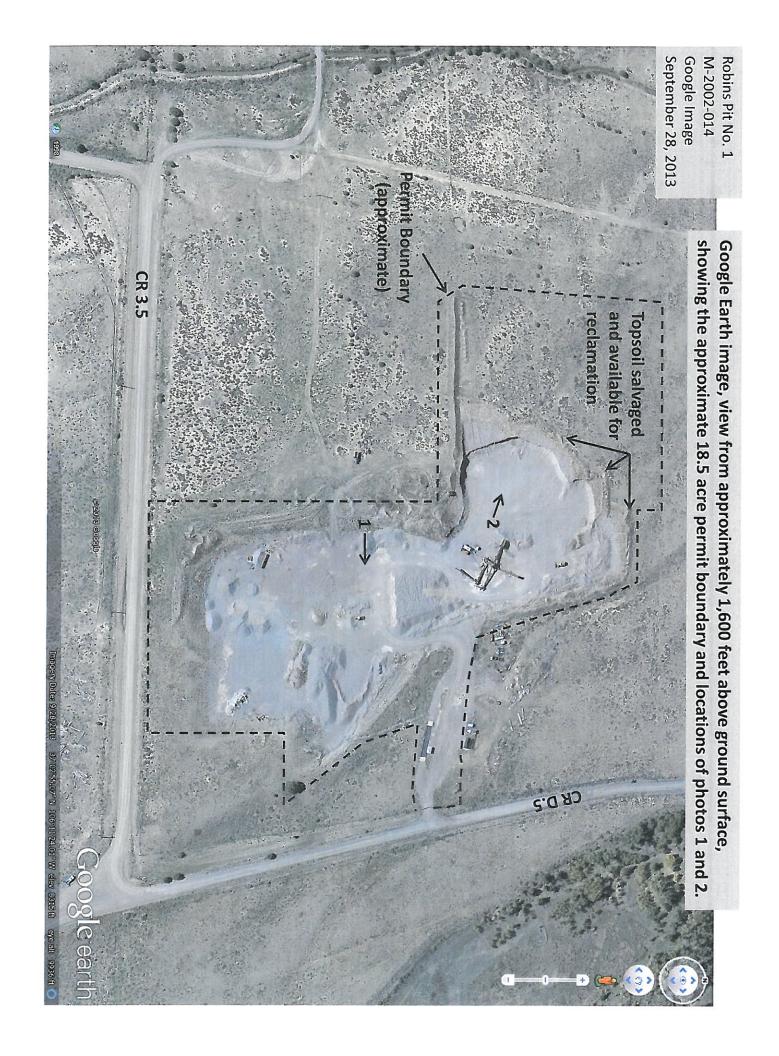
I, Wallace H. Erickson, hereby certify that on this 26th day of March, 2014, I placed a true copy of the preceding inspection report generated from the November 20, 2013 inspection of the Robins Pit No. 1, Permit No. M-2002-014, signed March 26, 2014, with enclosures, in the US Mail, first class postage affixed, and addressed to the following:

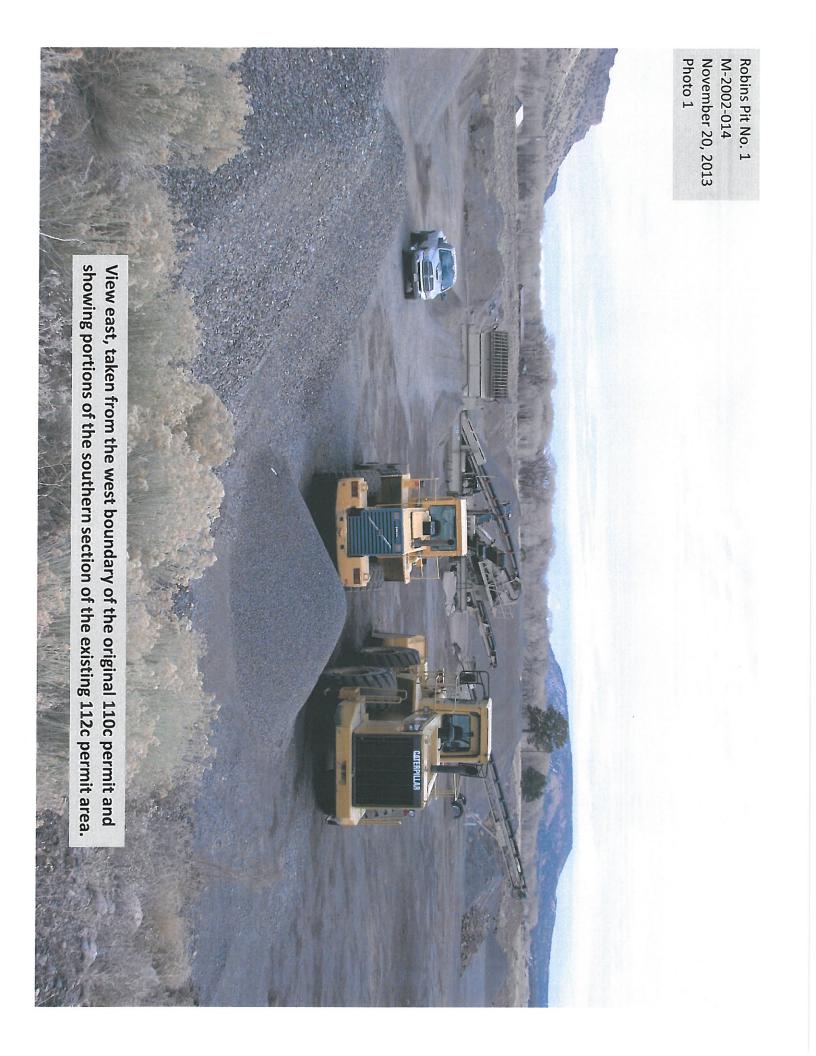
Wallace N. El-3/26/14

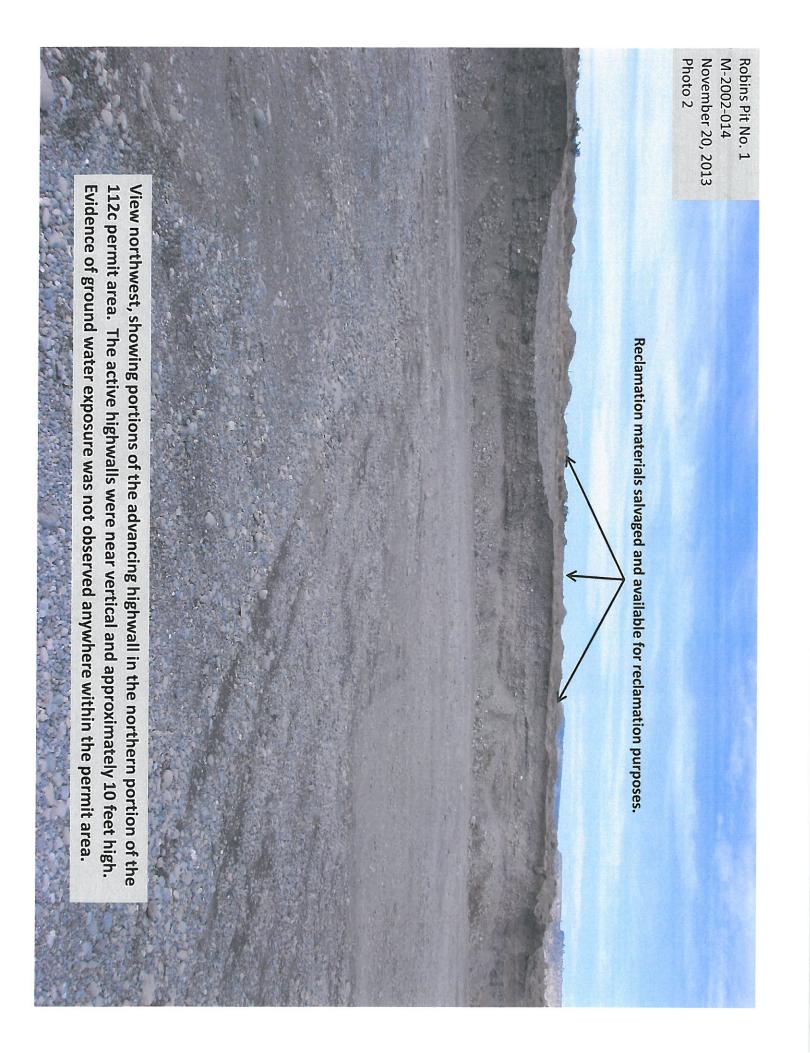
Randy Robins Robins Construction, LLLP P.O. Box 212 Antonito, CO 81120

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

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







COST SUMMARY WORK

te: <u>Robins P</u>	it No. 1		Permit Action:	Routine bond update	_ Permit/Jo	ob#: <u>M2002014</u>
	<u>IDENTIFICA</u>					
Task #:	000	State:	Colorado		reviation:	None
		Comment	Conejos		Filename:	M014-000
Date:	_3/25/2014	County:	COHOJOS		i iiciiaiiic.	1014-000

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Highwall reduction to 3H:1V	DOZER	1	4.58	\$944.02
002	Rip and grade10 acres affected lands	DOZER] 1	13.95	\$2,920.94
003	Replace topsoil 13 acres area at 4 inch depth	DOZER.	1	27.03	\$5,527.60
004	Revegetate 13 acres affected lands.	REVEGE	1	16.00	\$19,041.43
005	Haul reclamation equipment to and from job site	1	5.55	\$5,960.81	
	\$34,394.80				

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02% Total = \$694.77 Performance bond: 1.05% Total = \$361.15 Job superintendent: 0.00 hrs Total = \$0.00 Profit: 10.00% Total = \$3,439.48 TOTAL O & P =\$4,495.40 CONTRACT AMOUNT (direct + O & P) = \$38,890.20

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% \$1,944.51

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$6,939.91

TOTAL BOND AMOUNT (direct + indirect) = \$41,334.71

BULLDOZER WORK

Robins Pit No. 1	Permit Action:	Routine bond update	Permit/Job#:	M2002014
		*		
PROJECT IDENTIFIC	CATION			
Task #: 001	State: Colorado		Abbreviation:	None
Date: 3/25/2014	County: Conejos			M014-001
User: WHE	-		_	
Agency or organiz	zation name: DRMS			
HOURLY EQUIPMEN	T COST			
Basic Machine: Cat D	98T - 8U			
Horsepower: 310		*******		
Blade Type: Unive	ersal			
	nk ripper			
Shift Basis: 1 per				
Data Source: (CRG				
Cost Breakdown:		1		
0 11 0 - ***	#42.00	<u>Utilization %</u>		
Ownership Cost/Hour:	\$63.00	NA 100	***************************************	
Operating Cost/Hour:	\$104.06	100		
Ripper op. Cost/Hour:	\$1.63	25		
Operator Cost/Hour:	\$37.41	NA NA		
Total Fleet Cost/Hour:	\$206.11 \$206.11			
MATERIAL QUANTITY Initial Volume: 2,852	<u>ILS</u>			
Swell factor: $\frac{2,832}{1.000}$				
Loose volume: 2,852 I	CY			
		// ***		
Source of estimated volume	ري	"Highwall Reduction"		
Source of estimated swell fa	actor: NA			
HOURLY PRODUCTION	ON			
Average push distance: Unadjusted hourly production	50 feet on: 1,627.0 LCY/hr			
Onacquated nothing production	JAL 1,027.0 LC 1/III			
Materials consistency descri	iption: Compacted fill or ex	mbankment 0.9		
Average push gradient:	-10 %			
	8,300 feet			
Material weight:	3,300 lbs/LCY		_	
Weight description:	Decomposed rock - 75% Rock,	, 25% Earth		
Job Condition Correction Fa		Source		
Operator Ski		(AVG.)		
Material consistence		(CAT HB))		
Dogina mothe		(CENI)		

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.225	(CAT HB)
1.000	(CAT HB)
0.697	(CAT HB)
1.000	(PAT)
	0.830 0.800 1.225 1.000 0.697

Net correction: 0.3827

Adjusted unit production: 622.65 LCY/hr
Adjusted fleet production: 622.65 LCY/hr

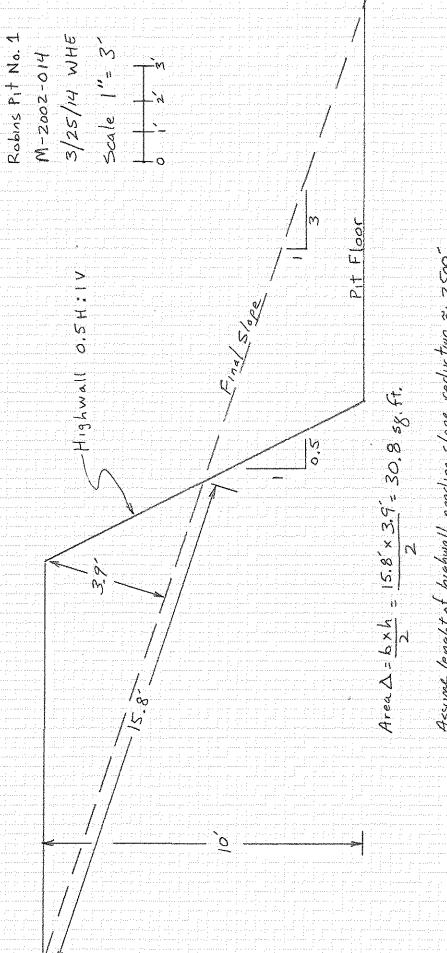
JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.331/LCY

Total job time: 4.58 Hours

Total job cost: \$944.02



Assume lenght of Inglimal needing slope reduction & 2,500

Material Quartly = 2,500' x 30.8 sy. A.

= 77,000 cu.ft.

= 2,851.8 cv

BULLDOZER WORK

Robins Pit No. 1	1	_ Per	mit Action:	Routine bond update	Permit/Job#:	M2002014
PROJECT IDE	NTIFICATIO	N				
•			0.11-		411 . * .*	3.7
Task #: 002	(0.01.4	State:	Colorado		Abbreviation:	None
Date:3/25/		County:	Conejos		Filename:	M014-002
User: WHE						
Agency o	r organization r	ame: DI	RMS			
HOURLY EQU	IPMENT CO	<u>ST</u>				
Basic Machine:	Cat D8T - 81	U				
Horsepower:	310					
Blade Type:	Universal					
Attachment:						
	3-shank ripp	<u>c*</u>	······································			
Shift Basis: Data Source:	1 per day (CRG)					
	(CKG)					
Cost Breakdown:				Utilization %		
Ownership Cost/H	Tour-	\$63.00		NA		
Operating Cost/F		\$104.06		100	····	
1 -		\$4.90	<u>'</u>	75		
Ripper op. Cost/H				——————————————————————————————————————	m 	
Operator Cost/F	lour:	\$37.41		NA		
Total unit Cost/Hou	ar: \$209.3	Q				
	u. 4207.5	O .				
Total Fleet Cost/Ho	our: \$209.3	8				
	*	8				
<u>MATERIAL QU</u>	JANTITIES	8				
MATERIAL OU Initial Volume:	3 ANTITIES 8,067	8				
MATERIAL QU Initial Volume: Swell factor:	8,067 1.000	8				
MATERIAL OU Initial Volume:	3 ANTITIES 8,067	8				
MATERIAL OU Initial Volume: Swell factor: Loose volume:	8,067 1.000 8,067 LCY			5°D) / 27 = 8 066 67 cv		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	8,067 1,000 8,067 LCY	(10ac)(43	560sf/ac)(0.	5°D) / 27 = 8,066.67 cy		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	8,067 1,000 8,067 LCY			5°D) / 27 = 8,066.67 cy		
MATERIAL QU Initial Volume: Swell factor:	8,067 1.000 8,067 LCY I volume:	(10ac)(43		5°D) / 27 = 8,066.67 cy		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	8,067 1.000 8,067 LCY d volume: d swell factor:	(10ac)(43	 -560sf/ac)(0.	5°D) / 27 = 8,066.67 cy		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	8,067 1.000 8,067 LCY I volume: I swell factor: DUCTION nce:	(10ac)(43 NA		5°D) / 27 = 8,066.67 cy		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant	8,067 1.000 8,067 LCY I volume: I swell factor: DUCTION nce: production:	(10ac)(43 NA 50 feet 1,627,0 LC	Y/hr	5°D) / 27 = 8,066.67 cy		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly	8,067 1,000 8,067 LCY d volume: d swell factor: DUCTION nce: production: cy description:	(10ac)(43 NA 50 feet 1,627,0 LC	Y/hr			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly Materials consisten Average push gradi	8,067 1.000 8,067 LCY d volume: d swell factor: DUCTION nce: production: cy description:	(10ac)(43 NA 50 feet 1,627.0 LC Compa	Y/hr			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly	8,067 1.000 8,067 LCY d volume: d swell factor: DUCTION nce: production: cy description:	(10ac)(43 NA 50 feet 1,627.0 LC Compa	Y/hr			
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly push Materials consisten Average push gradi Average site altitud	8,067 1.000 8,067 LCY d volume: d swell factor: DUCTION nce: production: cy description: dent: 6 % 8,300 f	(10ac)(43 NA 50 feet 1,627.0 LC Compa	Y/hr			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distant Unadjusted hourly push Materials consisten Average push gradi Average site altitud Material weight:	8,067 1.000 8,067 LCY I volume: I swell factor: DUCTION nce: production: cy description: dent:	(10ac)(43 NA 50 feet 1,627.0 LC Compa eet	Y/hr	mbankment 0.9		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly push Materials consisten Average push gradi Average site altitud Material weight: Weight description:	8,067	(10ac)(43 NA 50 feet 1,627.0 LC Compa eet	Y/hr cted fill or e	mbankment 0.9		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly push Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre	8,067	(10ac)(43 NA 50 feet 1,627.0 LC Compa eet bs/LCY	Y/hr cted fill or e	mbankment 0.9		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push distar Unadjusted hourly push Materials consisten Average push gradi Average site altitud Material weight: Weight description: Job Condition Corre	8,067	(10ac)(43 NA 50 feet 1,627.0 LC Compa eet bs/LCY posed rock	Y/hr cted fill or e	mbankment 0.9 50% Earth Source		

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.000	(CAT HB)
1.000	(CAT HB)
0.793	(CAT HB)
1.000	(PAT)
	0.830 0.800 1.000 1.000 0.793

Net correction: 0.3554

Adjusted unit production: 578.24 LCY/hr

Adjusted fleet production: 578.24 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.362/LCY

Total job time: 13.95 Hours
Total job cost: \$2,920.94

BULLDOZER WORK

Task descrip	otion:	Rep	lace topsoil 1	3 acres are	a at 4 inch depth		
e: Robins P	it No. 1		Per	mit Action:	Routine bond update	Permit/Job#:	M2002014
PROJECT	TIDENT	[FICAT]	ION				
Task #:	003		State:	Colorado		Abbreviation:	None
Date:	3/25/201	4	County:	Conejos		Filename:	M014-003
User:	WHE		,				
Ag	ency or or	ganization	name: DI	RMS		***	
HOURLY	EOUIPN	MENT C	OST				
Basic Ma		Cat D8T -					
Horser	***************************************	310			· · · · · · · · · · · · · · · · · · ·		
Blade	********	Jniversal					
		shank rij	ner				
		per day	эрог	***************************************			
Data S		CRG)					
Cost Breakd							
					Utilization %		
Ownership	Cost/Hou	Γ:	\$63.00		NA		
	Cost/Hou		\$104.06		100	And the second s	
Ripper op.			\$0.00		0		
	Cost/Hou		\$37.41		NA		
Operator	00001104		4071		NA		
Total unit Co	ost/Hour:	\$204	.48				
Total Fleet (Cost/Hour:	\$204	.48				
MATERIA Initial Voluments Swell fa Loose voluments	ume: 6, 1. ume: 6,	984 000 984 LCY					
Source of est				560sf/ac)(0	33'D) / 27 = 6,984.12 cy		
HOURLY	PRODU	CTION					
Average pus	h distance		200 feet				
Unadjusted l			515.8 LCY/	hr			
Materials con	nsistency o	lescription	n: Consol	idated stockp	oile 1.0		
Average pus	h gradient:	-5 %					
Average site		8,300) feet				
Material wei	ght:	2,550	lbs/LCY			-	
Weight descr	ription:	_Earth	- Dry packed				
Job Conditio					Source		
	Operato		***************************************	750	(AVG.)		
Mat	terial cons			000	(CAT HB)		
	Dozing r	nethod:	1.	000	(GEN.)		

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.115	(CAT HB)
1.000	(CAT HB)
0.902	(CAT HB)
1.000	(PAT)
	0.830 0.800 1.115 1.000 0.902

Net correction: 0.5009

Adjusted unit production: 258.36 LCY/hr
Adjusted fleet production: 258.36 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.791/LCY

Total job time: 27.03 Hours
Total job cost: \$5,527.60

REVEGETATION WORK

Task description: Revegetate 13 acres affected lands.

Site: Robins Pit No. 1 Permit Action: Routine bond update Permit/Job#: M2002014

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None

Date: 3/25/2014 County: Conejos Filename: M014-004

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
Blue Grama - Hachita	0.50	8.16	\$5.33
Crested Wheatgrass - Nordan	2.50	11.48	\$5.83
Russian Wildrye - Vinal	2.50	10.04	\$9.28
Smooth Brome - Lincoln	3.00	9.99	\$3.99
Yellow Sweet Clover - Madrid	1.00	5.97	\$2.55
Needle and Thread	1.00	2.64	\$46.99
Western Wheatgrass - Rosanna	4.00	10.10	\$14.04
Saltbush, Four Wing - Dewinged	1.00	1.61	\$19.16
Totals Seed Mix	15.50	59.99	\$107.16

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
					\$
		Tot	als Nursery Stoo	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 13 Cost / Acre: \$1,171.78

Estimated Failure Rate: 25% Cost /Acre*: \$1,171.78

*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU

LCHING

Initial Job Cost: \$15,233.14

Reseeding Job Cost: \$3,808.29

Total Job Cost: \$19,041.43

Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Haul reclamation equipment to and from job site

Site: Robins Pit No. 1 Permit Action: Routine bond update Permit/Job#: M2002014

PROJECT IDENTIFICATION

Task #:005State:ColoradoAbbreviation:NoneDate:3/25/2014County:ConejosFilename:M014-005

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 D8T - 8U	53.70	\$63.00	\$125.45	1	\$188.45	\$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: \$636.36 \$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	\$114.31	1	\$114.31	\$114.31

Subtotals: \$114.31 \$114.31

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

40.00

miles

45.00

mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$203.22

<u>Transportation Cycle Time:</u>

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.89	0.89
Return Time (Hours):	0.89	0.89
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.78	1.78

JOB TIME AND COST

Total job time:	5.56	Hours
Total job cost:	\$5,960.81	