

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:
Schmidt Site	M-2011-014	Sand & Gravel	Archuleta
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Wallace H. Erickson	Nov. 12, 2014	13:00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	ION:
Dale & Ellen Schmidt	Dale Schmidt	110c - Construct	on Limited Impact
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Complete Bond	\$7,404.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA	None	None	
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DAT	E;
Cloudy	Walkere H. 91	December 23, 20	14

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>NA</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADINGY	(EX) EXPLOSIVES <u>NA</u>
(PW) PROCESSING WASTE/TAILING <u>NA</u>	(SF) PROCESSING FACILITIES <u>Y</u>	(TS) TOPSOIL <u>Y</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>N</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(SB) COMPLETE INSP <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE Y	(SC) EROSION/SEDIMENTATION <u>Y</u>	(RS) RECL PLAN/COMPY
(AT) ACID OR TOXIC MATERIALSY		(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

OBSERVATIONS

This inspection occurred as part of the Division's routine monitoring program for permitted operations and to evaluate the current cost of reclamation. The Schmidt Site is approved for 2.7 acres affected lands for the extraction of construction materials. Affected lands will be reclaimed to support residential development post-mining land use. The Division holds \$7,404.21 financial warranty. This report is accompanied by five photographs, a correspondence from the Archuleta County Planning Department, and an updated reclamation cost estimation totaling \$7,249.25.

As shown in Photos 1 through 5, the Operator has significantly advanced the reclamation from the Division's previous inspection. The pit highwalls, previously characterized as being 20 feet high, have been reduced to approximately eight feet in height by backfill. Affected lands were estimated at one acre.

Pursuant to Rule 4.2.1, the Division has reveiwed the current cost of reclamation totaling \$7,249.25. Please find enclosed 14 pages of summary, work sheets and drawings utilized by the Division to calculate the current cost of reclamation. Therefore, the existing \$7,404.21 financial warranty appears sufficient to ensure the completion of reclamation.

During the inspection the Operator described his excavation activity as site preparation for construction of various structures, including a residential structure and an underground storage facility. The Operator reiterated his intension was not to conduct a mining operation. The Operator inquired as to the potential for termination of his reclamation permit upon the attainment of a building permit through Archuleta County. Division records include a correspondence from the Archulete County Planning Department, dated September 5, 2014, which indicates on September 2, 2014, the Board of County Commissioners of Archuleta conditionally approved a Conditional Use Permit (CUP) at the site. The document clarifies the CUP was issued to mitigate mining. Therefore, the County and the Division have interpreted the excavation activity to be a mining operation and the Division's reclamation permit will not be terminated in response to the conditionally approved CUP.

Inspection Contact Address

Dale Schmidt 472 Meadows Drive Pagosa Springs, CO 81147

- Enclosure: 1) five photographs taken by the Division during the inspection
 - 2) correspondence from Archuleta County Planning Department, dated September 5, 2014
 - 3) reclamation cost estimation, dated December 23, 2014, totaling \$7,249.25

ec w/enclosure: Nathan Barton, Wasteline, Inc. Russ Means, DRMS GJFO

COST SUMMARY WORK

Schmidt	Site		Permit Action:	Bond update Permit/J	lob#: <u>M2011014</u>
PROJECT	<u>IDENTIFICA</u>	<u>FION</u>			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	12/23/2014	County:	Archuleta	Filename:	M014-000
User:	WHE				·····

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost			
001	Highwall reduction: Balanced cut & fill	EXCAVATE	1	7.66	\$493.00			
002	Highwall reduction: Backfill	LOADER	1	2.72	\$230.00			
003	Generate backfill materials for Task 2	EXCAVATE	1	6.71	\$431.00			
004	Topsoil replacement	LOADER	1	5.86	\$495.00			
005	Generate topsoil materials for Task 4	EXCAVATE	1	15,12	\$972.00			
006	Revegetate affected lands	REVEGE	1	8.00	\$1,090.00			
007	Haul reclamation equipment to and from job site	MOBILIZE	1	2.80	\$2,395.00			
<u>SUBTOTALS:</u> 48.87 \$6,106								

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$123.34
Performance bond:	1.05%	Total =	\$64.11
Job superintendent:	0.00 hrs	Total =	\$0.00
Profit:	10.00%	Total =	\$610.60
		TOTAL O & P =	\$798.05
		CONTRACT AMOUNT (direct + O & P) = $($	\$6,904.05

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 0.00% 5.00%	Total = Total =	0.00 \$0.00 \$345.20	
CONTINGENCY:	0.00	Total =	\$0.00	
	TOTAL IN	DIRECT COST =	\$1,143.25	
TOTAL B	\$7,249.25			

HYDRAULIC EXCAVATOR WORK

PROJECT IDENTIFICATION Task #: 001 State: Colorad Date: 12/23/2014 County: Archuld User: WHE County: Archuld Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: Cat 307D 7'-3" Stick Attachment 1: ROPS Cab Cost Breakdown: State: Ownership Cost/Hour: \$15.43 Operating Cost/Hour: \$20.67 Operator Cost/Hour: \$28.17 Total Unit Cost/Hour: \$64.27 Total Fleet Cost/Hour: \$64.27 MATERIAL QUANTITIES Initial volume: 204 Loose volume: 256 LCY Source of estimated volume: See at Source of estimated swell factor: Cat Hat HOURLY PRODUCTION Excavator Cycle Time (load bucket, swing loaded, dum Basic Joh Secondary Job Condition w Load Bucket Capacity: 0.20 LCY (Bucket Fill Factor: 0.900 Other Adjusted Capacity: 0.18 LCY	eta	Permit/Job#: Abbreviation: Filename:	: <u>M2011014</u> <u>None</u> <u>M014-001</u>
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Fleet size: 1 Excavator	tier m: <u>44.63</u> m: <u>33.34</u>	LCY/Hour	
Unit cost: \$1.928 /LCY	tier m: <u>44.63</u> m: <u>33.34</u>	LCY/Hour 7.66	Hours

Highwall Reduction: Balanced Cut & Fill Drawing 1 Schmidt site M-2011-014 Native Ground Surface 12/23/14 WHE Scale |"= 2' Highwall @ 0.5H:IV 0 1 2 8.9-8 Final Slope @ 2H: IV Area $\Delta = \frac{bxh}{2} = \frac{8.9' \times 2.7'}{2}$ Pit Floor = 12 sq. ft. Length of highwall = 460' Material Quartity = 460 × 12 sg. ft. = 5,520 cu. Ft. = 204.4 cy

WHEEL LOADER - LOAD AND CARRY WORK

: Schmidt Site		Permit Act	tion: Bond up	date	Permit/Ioh#	M2011014
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PROJECT IDEN	TIFICATION	[
Task #: 002		State: Colo	rado		Abbreviation:	Mone
Date: $\frac{1002}{12/23/2}$	2014		uleta		Filename:	<u>None</u> M014-002
User: WHE		County. <u>Atom</u>	uicia	*******	ruchame:	M014-002
Agency or o	organization nar	ne: <u>DRMS</u>				
HOURLY EQUIP	MENT COST	<u>r</u>				
Basic Machine	e: CAT 446D)		Horser	power:	101
Attachment 1	1: ROPS Cab)				ber day
				Data S	K	CRG)
Cost Breakdown:						
COST DICARGOWIL			Utilizati	on %		
Ownership C	ost/Hour:	\$15.82	NA			
Operating C		\$31.49	100			
Operator C		\$37.13	NA			
Total Unit C		\$84.44				
Tatal Plant C						
Total Fleet C	.ost/Hour:	\$84.44				
	NTETTE					
MATERIAL QUA	MATTIES					
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Loose volume:	<u>179</u> <u>224</u>			ell factor: <u>1</u>	.250	
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Loose volume: Source o HOURLY PRODU Loader Cycle Time: Cycle Time Fa Ma Stoc Truck Owne Oper Dump T Rolling Resistance – I Ha	224 cce of estimated swe of estimated swe Unadjuste actors terial: Materi kpile: No adj rship: No adj ation: Incons arget: Nomin Road Conditions Soft, rutt aul: Soft, rutt	LCY volume: See Il factor: Cat ed Basic Cycle 7 ial 3/4" to 6" dia justment - factor justment - factor istent operation hal target 0.00 Ne Au S ed dirt, no maint	4 attached, "Drav Handbook Fime (load, dum meter 0.00 not applicable (0.04 t Cycle Time A djusted Basic C	ving 2, Highwa	0.475 Factor (min.) 0.000 0.000 0.000 0.040 0.040 0.515 ration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source o HOURLY PRODU Loader Cycle Time: Cycle Time Fa Ma Stoc Truck Owne Oper Dump T Rolling Resistance – I Ha Retu	224 rece of estimated swe JCTION Unadjusta actors terial: Materi kpile: No adj rship: No adj ation: Incons arget: Nomin Road Conditions Soft, rutt urn: Soft, rutt	LCY volume: See Il factor: Cat ed Basic Cycle 7 ial 3/4" to 6" dia justment - factor justment - factor istent operation hal target 0.00 Ne A s ed dirt, no main ed dirt, no main	A attached, "Drav Handbook Fime (load, dum meter 0.00 not applicable (0.04 t Cycle Time A djusted Basic C tenance or wates	ving 2, Highwa p, maneuver): 0.00 0.00 djustment: ycle Time: r, 4" tire penet r, 4" tire penet	0.475 Factor (min.) 0.000 0.000 0.000 0.040 0.040 0.040 0.515 ration 8.0 ration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes
Loose volume: Source o HOURLY PRODU Loader Cycle Time: Cycle Time Fa Ma Stoc Truck Owne Oper Dump T Rolling Resistance – I Ha Retu	224 cce of estimated swe of estimated swe Unadjuste actors terial: Materi kpile: No adj rship: No adj ation: Incons arget: Nomin Road Conditions aul: Soft, rutt Soft, rutt Length Length	LCY volume: See 11 factor: Cat ed Basic Cycle 7 ial 3/4" to 6" dia justment - factor justment - factor iustment - factor	A attached, "Drav Handbook Fime (load, dum meter 0.00 not applicable 0.04 At Cycle Time A djusted Basic C tenance or wates tenance or wates Rolling	ving 2, Highwa p, maneuver): 0.00 0.00 djustment: ycle Time: r, 4" tire penet r, 4" tire penet Total Res.	0.475 Factor (min.) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.040 0.040 0.515 ration 8.0 ration 8.0 Travel Time	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source o HOURLY PRODU Loader Cycle Time: Cycle Time Fa Ma Stoc Truck Owne Oper Dump T Rolling Resistance – I Ha Retu	224 rece of estimated swe JCTION Unadjusta actors terial: Materi kpile: No adj rship: No adj ation: Incons arget: Nomin Road Conditions Soft, rutt urn: Soft, rutt	LCY volume: See Il factor: Cat ed Basic Cycle 7 ial 3/4" to 6" dia justment - factor justment - factor istent operation hal target 0.00 Ne A s ed dirt, no main ed dirt, no main	A attached, "Drav Handbook Fime (load, dum meter 0.00 not applicable (0.04 t Cycle Time A djusted Basic C tenance or wates	ving 2, Highwa p, maneuver): 0.00 0.00 djustment: ycle Time: r, 4" tire penet r, 4" tire penet	0.475 Factor (min.) 0.000 0.000 0.000 0.040 0.040 0.040 0.515 ration 8.0 ration 8.0	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

		minutes				
			Total Cycle Ti	me:	0.8193	minutes
Load Bucket Capacity						
Rated Capacity:	1.50	LCY (heap				
Bucket Fill Factor:	0.900		l, boulders, roots	(80 - 100	%) 0.900	
Adjusted Capacity:	1.35	_ LCY				
Job Condition Correction I Site Altitude: <u>6970</u> feet	actors					
		Source				
Altitude Adj:	1.00	(CAT HB))			
Job Efficiency:	0.83	(1 shift/day)			
Net Correction:	0.83	multiplier				
	justed Hourly Unit H		98.86	LCY/H	łour	
	justed Hourly Unit I	-	82.06	LCY/H	Iour	
Adj	usted Hourly Fleet I	Production:	82.06	_ LCY/F	Iour	
JOB TIME AND COST	<u>r</u>					
Fleet size: 1	Loader(s)		Total job time: _		2.73	Hours
Unit cost:\$1.02	9 /LCY		Total job cost: _		\$230	

Drawing 2 Highwall Reduction : Backfill Schmidt Site M-2011-014 Highwall @ 0.5 H: IV 12/23/14 WHE - Final Slope @ 2H:IV Scale 1"= 2" 17.9-5.4-Pit Floor Area $\Delta = \frac{b \times h}{2} = \frac{17.9' \times 5.4'}{2} = 48.33 \text{ sg.ft.}$ Length of highwall = 100 Material Quantity = 100 × 48.33 = ft. = 4833 cv. ft. = 179 cy

HYDRAULIC EXCAVATOR WORK

Task description:	Generate backfil	materials f	for Task 2		
: Schmidt Site	Perr	nit Action:	Bond update	Permit/Job#	: <u>M2011014</u>
PROJECT IDENTIF	ICATION				
Task #: 003 Date: 12/23/2014 User: WHE	State: County:	Colorado Archuleta		Abbreviation: Filename:	None M014-003
Agency or orga	nization name: DR	MS			
HOURLY EQUIPME					
Basic Machine: Attachment 1:	Cat 307D 7'-3" Stic ROPS Cab	<u>k</u>	W	Shift Basis: 1	56 7.23 per day CRG)
Cost Breakdown:					
Ownership Cost/ Operating Cost/ Operator Cost/ Total Unit Cost/	Hour: \$20.6 Hour: \$28.1	7 7	Utilization % NA 100 NA		
Total Fleet Cost/					
Loose volume: 2 Source of	ad bucket, swing load	Cat Hand	book ucket, swing empty	ighwall Reduction"):	
			ondition Description In Basic Description		
Load Bucket Capacity		annon with	Cycle Time Value		minutes
				Bucket Size Class: Sn	nall
Rated Capacity Bucket Fill Factor Adjusted Capacity	: 0.900	LCY (hea Other - so LCY	ped) il, boulders, roots (80 -100%) 0.900	
Job Condition Correction	Factors	-	Site A	ltitude: <u>6970</u> feet	
А	0.90 0.83 0.75 djusted Hourly Unit F djusted Hourly Unit F ljusted Hourly Fleet F	roduction:		LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COS					
Fleet size: 1		то То	tal job time:	6.71	Hours
Unit cost: \$1.9	28 /LCY		Total job cost:	\$431	

WHEEL LOADER - LOAD AND CARRY WORK

Schmidt Site	Permit Action:	Bond update	Permit/Job#:	M2011014
ROJECT IDENTIFIC	CATION			
Task #: 004	State: Colorado		Abbrowistion	Maria
Date: $12/23/2014$	County: Archuleta		Abbreviation: Filename:	None Mold ood
User: WHE	County. Archurea	a	r nename:	M014-004
Agency or organiz	ation name: DRMS			
IOURLY EQUIPMEN	<u>T COST</u>			
Basic Machine: C	AT 446D	Hors	epower:	101
	OPS Cab			er day
	······································	Data		CRG)
ost Breakdown:				
OSC DICARGOWIL		Utilization %		
Ownership Cost/Ho	ur: \$15.82	NA		
Operating Cost/Ho		100		
Operator Cost/Ho		NA		
Total Unit Cost/Ho	ur: \$84.44			
Total Fleet Cost/Ho	our: \$84.44			
IATERIAL QUANTII				
		Swell factor:	1.250	
IATERIAL QUANTII	TIES	Swell factor:	1.250	
IATERIAL QUANTIT Initial volume: 403 Loose volume:	CCY 504 LCY			
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e	CCY 504 CCY LCY estimated volume: _(1ac)(43			
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e	CCY 504 LCY			
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of estin	CCY 504 LCY estimated volume: (1ac)(43) cat Han			
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of estin	CIES CCY 504 LCY estimated volume: (1ac)(43 nated swell factor: Cat Han ON	560sf/ac)(0.25°D) / 27 = dbook	= 403.33 cy	
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of estin	CCY 504 LCY estimated volume: (1ac)(43) cat Han	560sf/ac)(0.25°D) / 27 = dbook	= 403.33 cy	minutes
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of estin	CIES CCY 504 LCY estimated volume: (1ac)(43 nated swell factor: Cat Han ON	560sf/ac)(0.25'D) / 27 = dbook	= 403.33 cy):0.475	minutes Source
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin	CIES CCY 504 LCY estimated volume: (1ac)(43 nated swell factor: Cat Han ON	560sf/ac)(0.25'D) / 27 = dbook	= 403.33 cy	
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of estin Source of estin OURLY PRODUCTION Dader Cycle Time: Cycle Time Factors Material: Stockpile:	CCY 504 LCY estimated volume: (1ac)(43) nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10	560sf/ac)(0.25'D) / 27 = dbook c (load, dump, maneuver 0 ft. high and up 0.00	= 403.33 cy): 0.475 Factor (min.)	Source
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin OURLY PRODUCTIO Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	CCY 504 LCY estimated volume: (1ac)(43) nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not	560sf/ac)(0.25'D) / 27 = dbook c (load, dump, maneuver) ft. high and up 0.00 applicable 0.00	= 403.33 cy): 0.475 Factor (min.) 0.020	Source (Cat HB)
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin OURLY PRODUCTIO Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	CCY 504 LCY estimated volume: (1ac)(43) nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not Inconsistent operation 0.04	560sf/ac)(0.25'D) / 27 = dbook c (load, dump, maneuver) ft. high and up 0.00 applicable 0.00	= 403.33 cy): 0.475 Factor (min.) 0.020 0.000 0.000 0.000 0.040	Source (Cat HB) (Cat HB)
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin OURLY PRODUCTIO Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership:	CCY 504 LCY estimated volume: (1ac)(43) nated swell factor: Cat Han ON Cycle Time Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not Inconsistent operation 0.04 Nominal target 0.00	560sf/ac)(0.25°D) / 27 = dbook e (load, dump, maneuver o ft. high and up 0.00 applicable 0.00	= 403.33 cy): 0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin OURLY PRODUCTIO Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	CCY 504 LCY estimated volume: (1ac)(43) nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not Inconsistent operation 0.04 Nominal target 0.00 Net Cy	560sf/ac)(0.25°D) / 27 = dbook e (load, dump, maneuver D ft. high and up 0.00 applicable 0.00	= 403.33 cy): 0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.000 0.000 0.060	(Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin OURLY PRODUCTIO Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	CCY 504 LCY estimated volume: (1ac)(43) nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not Inconsistent operation 0.04 Nominal target 0.00 Net Cy	560sf/ac)(0.25°D) / 27 = dbook e (load, dump, maneuver o ft. high and up 0.00 applicable 0.00	= 403.33 cy): 0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of estin Source of estin OURLY PRODUCTION Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	CIES CCY 504 LCY estimated volume: (1ac)(43 nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not Inconsistent operation 0.04 Nominal target 0.00 Net Cy Adjust	560sf/ac)(0.25°D) / 27 = dbook e (load, dump, maneuver D ft. high and up 0.00 applicable 0.00	= 403.33 cy): 0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.000 0.000 0.060	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
IATERIAL QUANTIT Initial volume: 403 Loose volume: Source of e Source of estin OURLY PRODUCTIO Dader Cycle Time: Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	CIES CCY 504 LCY estimated volume: (1ac)(43 nated swell factor: Cat Han ON Unadjusted Basic Cycle Time Mixed material 0.02 Conveyor or dozer piled 10 No adjustment - factor not Inconsistent operation 0.04 Nominal target 0.00 Net Cy Adjust	560sf/ac)(0.25'D) / 27 = dbook c (load, dump, maneuver) ft. high and up 0.00 applicable 0.00 cle Time Adjustment: ted Basic Cycle Time:	= 403.33 cy): 0.475 Factor (min.) 0.020 0.000 0.000 0.040 0.000 0.060 0.535	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	130	0.00	8.00	8.00	0.1236	(Cat HB)
Return Route:	130	0.00	8.00	8.00	0.1236	(Cat HB)

		Total Trave Total Cycl		minutes minutes
Load Bucket Capacity		Total Cycl	0.7025	infinites
Rated Capacity: Bucket Fill Factor:	1.50	LCY (heaped) Other - soil, boulders, re	oots (80 -100%) 0.900	
Adjusted Capacity: Job Condition Correction Fa	<u>1.35</u>	LCY		
Site Altitude: <u>6970</u> feet	101013			
		Source		
Altitude Adj:	1.00	(CAT HB)		
Job Efficiency:	0.83	(1 shift/day)		
Net Correction:	0.83	multiplier		
-	usted Hourly Unit		LCY/Hour	
-	usted Hourly Unit		LCY/Hour	
Adju	sted Hourly Fleet	Production: 85.94	LCY/Hour	
JOB TIME AND COST				
Fleet size: 1	Loader(s)	Total job tim	e: 5.87	Hours
Unit cost:\$0.983	J/LCY	Total job cos	st:\$495	

HYDRAULIC EXCAVATOR WORK

Task description:	Generate topsoil	materials fo	r Task 4		
Schmidt Site	Per	mit Action: _	Bond update	Permit/Jo	b#: <u>M2011014</u>
<u>PROJECT IDENTIFI</u>	CATION				
Task #: 005 Date: 12/23/2014 User: WHE	State: County:	Colorado Archuleta		Abbreviation Filename	······
Agency or organ	ization name:	RMS			
HOURLY EQUIPME	<u>NT COST</u>				
	Cat 307D 7'-3" Sti ROPS Cab	<u>ck</u>	Ň	Horsepower: Veight (MT): Shift Basis: Data Source:	56 7.23 1 per day (CRG)
Cost Breakdown:		1	W.W. 1911 1		
Ownership Cost/H	our: \$15.4	43	Utilization % NA		
Operating Cost/H			100	<u> </u>	
Operator Cost/H		17	NA		
Total Unit Cost/H	our: \$64.2	27			
Total Fleet Cost/H	Iour:\$64.	27			
MATERIAL QUANT	TIES				
Initial volume: 40		_ CCY	Swell facto	or: <u>1.250</u>	
Loose volume: 50	4	_ LCY			
HOURLY PRODUCT Excavator Cycle Time (los		ded, dump bu	cket, swing emp	<u>ty):</u>	
			ndition Descripti		
	Secondary Job Co	ndition within			
Load Bucket Capacity			Cycle Time Val	ue: 0.242	minutes
				Bucket Size Class:	Small
Rated Capacity:	0.20	LCY (heap			······································
Bucket Fill Factor:	0.900		l, boulders, roots	(80 -100%) 0.900	
Adjusted Capacity:	0.18	_ LCY			
Job Condition Correction 1	Factors		Site .	Altitude: <u>6970</u> feet	
		Source			
Altitude Adj:	0.90	(CAT HB)			
Job Efficiency:	0.83	(1 shift/day)		
Net Correction:	0.75	multiplier			
	justed Hourly Unit		44.63	_ LCY/Hour	
	justed Hourly Unit		33.34	LCY/Hour	
-	usted Hourly Fleet]	Production:	33.34	LCY/Hour	
JOB TIME AND COS	_				
Fleet size: 1	Excavato	r Tota	al job time:	15.12	Hours
Unit cost: \$1.92	8 /LCY		Total job cost:	\$972	
φ1.72			Lotar job cost.	3712	

REVEGETATION WORK

J	Fask descrij	otion:	Revegetate affected lands	8		
Site:	Schmidt	Site	Permit Actio	on: Bond update	Permit/Job#:	M2011014
Ī	PROJECT	<u>IDENTIFI</u>	CATION			
	Task #: Date: User:	006 12/23/2014 WHE	State: Colora County: Archul		Abbreviation: Filename:	None M014-006
		WHE ency or organ	ization name: DRMS		-	

FERTILIZING

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

<u>TILLING</u>

Description		Cost /Acre
Chisel plowing {DMG}		\$88.58
	Total Tilling Cost/Acre	\$88.58

SEEDING

Seed Mix		Seeds per SQ. FT	Cost /Acre
Crested Wheatgrass - Fairway	6.00	27.55	\$14.52
Ryegrass, Annual/Gulf	0.80	3.49	\$0.60
Intermediate Wheatgrass - Oahe	9.00	19.21	\$19.44
Smooth Brome - Manchar	9.20	30.62	\$18.12
Totals Seed Mix	25.00	80.88	\$52.68

Application

Deceviation	Gentline
Broadcast seeding [DMG]	Cost /Acre
	9201.20

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
Total Mulch Materials Cost/Acre				\$265.00

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	Total Mulch Application Cost/Acre	\$86.68

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	······	Tot	als Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

	No. of Acres:	1	Cost /Acre:	\$872.33	
Estimat	ed Failure Rate:	25%	Cost /Acre*:	\$872.33	
*Selected Replanti	ng Work Items:	FERTILIZING,T LCHING	ILLING,SEEDING,MU		
Initial Job Cost:	\$872.33				
Reseeding Job Cost:	\$218.08				
Total Job Cost:	\$1,090				
Job Hours:	8.00				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Ha	ul reclamation eq	uipment to and	from job	site			
ite: Schmidt Site		Permit Action: Bond update		Pe	rmit/Job#:	M201	1014	
PROJECT IDI	ENTIFICAT	ION						
Task #: 007	,	State: Co				Abbreviation: Filename:		
Date: 12/ User: WH	23/2014 IE	County: A						007
Agency	or organizatio	n name: DRMS	•					
EQUIPMENT	TRANSPOI	RT RIG COST						
					Shift ba	isis:]	l per day	
					Cost Data Sou		CRG Data	
Truc	k Tractor Desc	cription: GEN	ERIC ON-HIGH		UCK TRACTO (2ND HALF,		DIESEL I	POWERED,
Truc	k Trailer Desc	cription: GENE	ERIC FOLDING				JIPMEN	T TRAILER
					, 50T, AND 10			
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 Uni	t Cost/Hour:	\$88.67	\$117.55	\$	25.45			
NON ROADAI	BLE EOUIP	MENT:						
· · ·			1 12 12.	171	1 1 1 1 1 1	D	 	<u> </u>
Machine	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet	Haul Trip	Return 7 Cost/hr/		DOT Permi Cost/ fleet
Description	(TONS)	Cost/m/ unit	Cost/nr/unit	Size	Cost/hr/ fleet	C050/III/	noot	
CAT 446D	9.80	\$15.82	\$88.67	1	\$104.49	\$88.67		\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67		\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67		\$250.00

Subtotals: \$328.45 \$266.01 \$750.00

ROADABLE EQUIPMENT:

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

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	PAGOSA SPRINGS	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,394.68	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.20	0.20
Return Time (Hours):	0.20	0.20
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.40	0.40

JOB TIME AND COST

Total job time: 2.80 Hours

Total job cost: \$2,395













Archuleta County Planning Department 1122 Highway 84 P. O. Box 1507 Pagosa Springs, Colorado 81147 970-264-1390 Fax 970-264-3338

September 5, 2014

Mr. Dale Schmidt PO Box 2750 Durango, CO 81302

Dear Mr. Schmidt,

Your Conditional Use Permit (CUP) for the underground storage building to mitigate mining at 355 River Run Dr. in Aspen Springs was approved September 2nd by the Board of County Commissioners of Archuleta with the following conditions.

- 1. Full drainage plan submitted to the County Engineer for review and approval before submitting to the County Building Department
- 2. Access permit for County Road and Bridge Department.
- 3. Address the concerns of the Aspen Springs Metro district and LPEA to the satisfaction of the County.
- 4. The project does not create a negative impact on the surrounding properties.

Please contact our office if you have any questions.

Sincerely,

2. J. Feyer

Kenneth Feyen P.E. Interim Planning Manager

Cc Archuleta County Building Department