



**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.

<b>MINE NAME:</b> Schmidt Site	<b>MINE/PROSPECTING ID#:</b> M-2011-014	<b>MINERAL:</b> Sand & Gravel	<b>COUNTY:</b> Archuleta
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Wallace H. Erickson	<b>INSP. DATE:</b> Nov. 12, 2014	<b>INSP. TIME:</b> 13:00
<b>OPERATOR:</b> Dale & Ellen Schmidt	<b>OPERATOR REPRESENTATIVE:</b> Dale Schmidt	<b>TYPE OF OPERATION:</b> 110c - Construction Limited Impact	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$7,404.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Cloudy	<b>INSPECTOR'S SIGNATURE:</b> <i>Wallace H. Erickson</i>	<b>SIGNATURE DATE:</b> December 23, 2014	

**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 & GRADING-----	<u>Y</u>	(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-----	<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

### **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 reviewed 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 intention 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

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

## COST SUMMARY WORK

Task description: Summary of reclamation tasks and costs

Site: Schmidt Site Permit Action: Bond update Permit/Job#: M2011014

### PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None  
Date: 12/23/2014 County: Archuleta Filename: M014-000  
User: WHE

Agency or organization name: DRMS

### 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
<b><u>SUBTOTALS:</u></b>				<b>48.87</b>	<b>\$6,106</b>

### 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):	0.00	Total =	0.00
Engineering work and/or contract/bid preparation:	0.00%	Total =	\$0.00
Reclamation management and/or administration:	5.00%		\$345.20

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$1,143.25

TOTAL BOND AMOUNT (direct + indirect) = \$7,249.25

## HYDRAULIC EXCAVATOR WORK

Task description: Highwall reduction: Balanced cut & fill

Site: Schmidt Site Permit Action: Bond update Permit/Job#: M2011014

### PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None  
Date: 12/23/2014 County: Archuleta Filename: M014-001  
User: WHE

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56  
Attachment 1: ROPS Cab Weight (MT): 7.23  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$15.43</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$20.67</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.17</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$64.27</u>	
Total Fleet Cost/Hour:	<u>\$64.27</u>	

### MATERIAL QUANTITIES

Initial volume: 204 CCY Swell factor: 1.250  
Loose volume: 256 LCY

Source of estimated volume: See attached, "Drawing 1, Highwall Reduction..."  
Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: AVERAGE  
Secondary Job Condition within Basic Description: AVERAGE  
Cycle Time Value: 0.242 minutes

#### Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small  
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900  
Adjusted Capacity: 0.18 LCY

#### Job Condition Correction Factors

Site Altitude: 6970 feet

		Source
Altitude Adj:	<u>0.90</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.75</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 44.63 LCY/Hour  
Adjusted Hourly Unit Production: 33.34 LCY/Hour  
Adjusted Hourly Fleet Production: 33.34 LCY/Hour

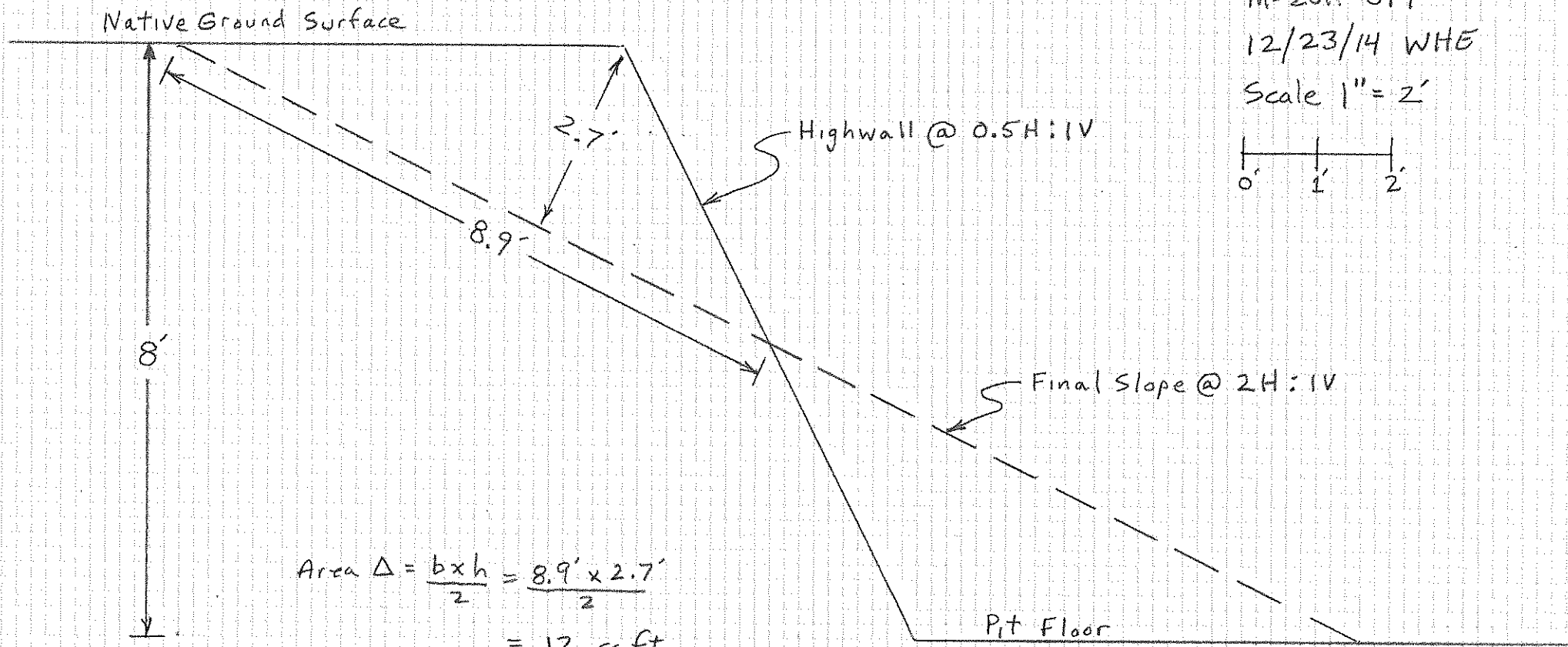
### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 7.66 Hours  
Unit cost: \$1.928 /LCY Total job cost: \$493

Drawing 1

# Highwall Reduction: Balanced Cut & Fill

Schmidt Site  
M-2011-014  
12/23/14 WHE  
Scale 1" = 2'



$$\text{Area } \Delta = \frac{b \times h}{2} = \frac{8.9' \times 2.7'}{2} = 12 \text{ sq. ft.}$$

$$\text{Length of highwall} = 460'$$

$$\begin{aligned} \text{Material quantity} &= 460' \times 12 \text{ sq. ft.} \\ &= 5,520 \text{ cu. ft.} \\ &= 204.4 \text{ cy} \end{aligned}$$

**WHEEL LOADER – LOAD AND CARRY WORK**Task description: **Highwall reduction: Backfill**Site: **Schmidt Site** Permit Action: **Bond update** Permit/Job#: **M2011014****PROJECT IDENTIFICATION**

Task #: **002** State: **Colorado** Abbreviation: **None**  
 Date: **12/23/2014** County: **Archuleta** Filename: **M014-002**  
 User: **WHE**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **CAT 446D** Horsepower: **101**  
 Attachment 1: **ROPS Cab** Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$15.82	NA
Operating Cost/Hour:	\$31.49	100
Operator Cost/Hour:	\$37.13	NA
Total Unit Cost/Hour:	\$84.44	
Total Fleet Cost/Hour:	\$84.44	

**MATERIAL QUANTITIES**

Initial volume: **179** CCY Swell factor: **1.250**  
 Loose volume: **224** LCY

Source of estimated volume: **See attached, "Drawing 2, Highwall Reduction..."**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): **0.475** minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.040	minutes
Adjusted Basic Cycle Time:		0.515	minutes

**Rolling Resistance – Road Conditions**

Haul: **Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0**  
 Return: **Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0**

**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	160	0.00	8.00	8.00	0.1522	(Cat HB)
Return Route:	160	0.00	8.00	8.00	0.1522	(Cat HB)

Total Travel Time: 0.3043 minutes  
Total Cycle Time: 0.8193 minutes

Load Bucket Capacity

Rated Capacity: 1.50 LCY (heaped)  
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900  
Adjusted Capacity: 1.35 LCY

Job Condition Correction FactorsSite Altitude: 6970 feet

Altitude Adj:	<u>1.00</u>	Source
Job Efficiency:	<u>0.83</u>	(CAT HB)
Net Correction:	<u>0.83</u>	(1 shift/day)
		multiplier

Unadjusted Hourly Unit Production: 98.86 LCY/Hour  
Adjusted Hourly Unit Production: 82.06 LCY/Hour  
Adjusted Hourly Fleet Production: 82.06 LCY/Hour

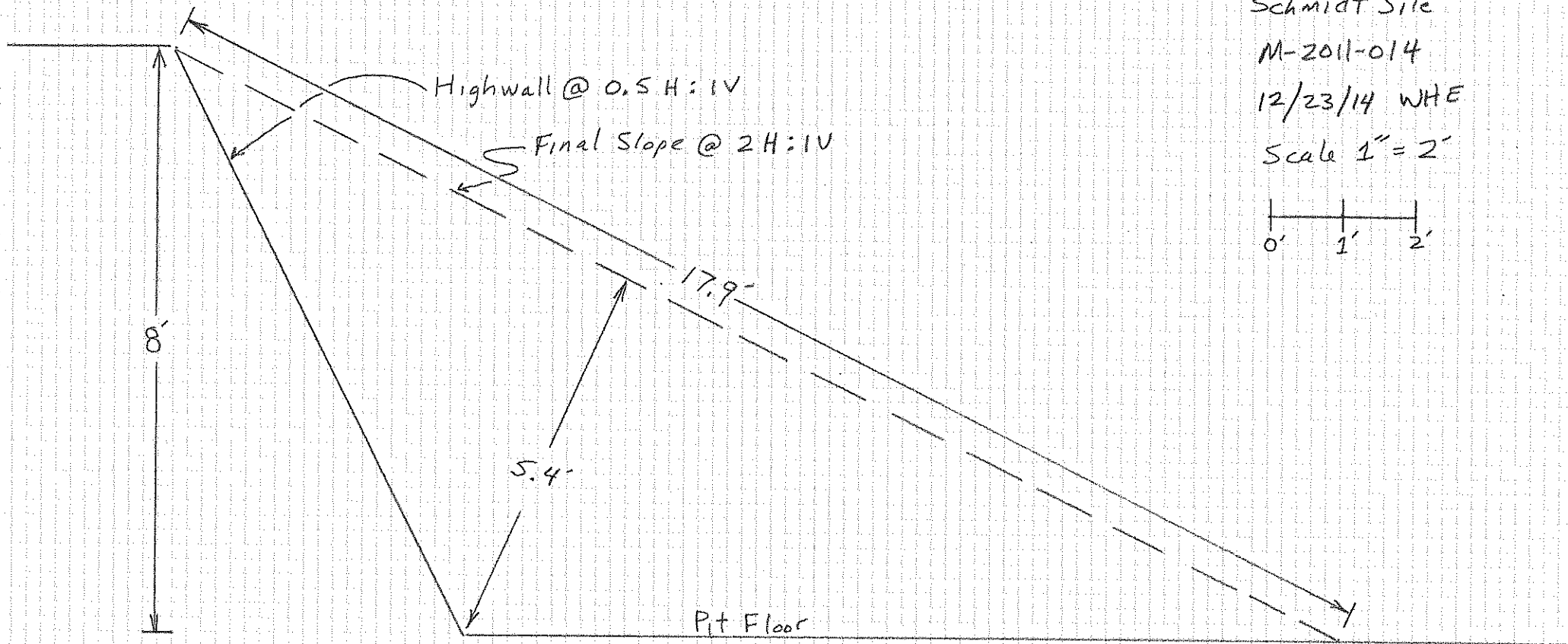
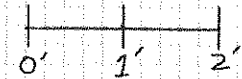
JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 2.73 Hours  
Unit cost: \$1.029 /LCY Total job cost: \$230

# Drawing 2

## Highwall Reduction: Backfill

Schmidt Site  
M-2011-014  
12/23/14 WHE  
Scale 1" = 2'



$$\text{Area } \Delta = \frac{b \times h}{2} = \frac{17.9' \times 5.4'}{2} = 48.33 \text{ sq. ft.}$$

$$\text{Length of highwall} = 100'$$

$$\begin{aligned} \text{Material Quantity} &= 100' \times 48.33 \text{ sq. ft.} \\ &= 4833 \text{ cu. ft.} \\ &= 179 \text{ cy} \end{aligned}$$



## HYDRAULIC EXCAVATOR WORK

Task description: Generate backfill materials for Task 2

Site: Schmidt Site Permit Action: Bond update Permit/Job#: M2011014

### PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None  
Date: 12/23/2014 County: Archuleta Filename: M014-003  
User: WHE

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56  
Attachment 1: ROPS Cab Weight (MT): 7.23  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$15.43</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$20.67</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.17</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$64.27</u>	
Total Fleet Cost/Hour:	<u>\$64.27</u>	

### MATERIAL QUANTITIES

Initial volume: 179 CCY Swell factor: 1.250  
Loose volume: 224 LCY

Source of estimated volume: See attached, "Drawing 2, Highwall Reduction..."  
Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: AVERAGE  
Secondary Job Condition within Basic Description: AVERAGE  
Cycle Time Value: 0.242 minutes

#### Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small  
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900  
Adjusted Capacity: 0.18 LCY

#### Job Condition Correction Factors

Site Altitude: 6970 feet

		Source
Altitude Adj:	<u>0.90</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.75</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 44.63 LCY/Hour  
Adjusted Hourly Unit Production: 33.34 LCY/Hour  
Adjusted Hourly Fleet Production: 33.34 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 6.71 Hours  
Unit cost: \$1.928 /LCY Total job cost: \$431

**WHEEL LOADER – LOAD AND CARRY WORK**Task description: Topsoil replacementSite: Schmidt SitePermit Action: Bond updatePermit/Job#: M2011014**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 12/23/2014County: ArchuletaFilename: M014-004User: WHEAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 446DHorsepower: 101Attachment 1: ROPS CabShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$15.82	NA
Operating Cost/Hour:	\$31.49	100
Operator Cost/Hour:	\$37.13	NA
Total Unit Cost/Hour:	\$84.44	
Total Fleet Cost/Hour:	\$84.44	

**MATERIAL QUANTITIES**Initial volume: 403

CCY

Swell factor: 1.250Loose volume: 504

LCY

Source of estimated volume: (1ac)(43560sf/ac)(0.25'D) / 27 = 403.33 cySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.475 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.060	minutes
Adjusted Basic Cycle Time:		0.535	minutes

**Rolling Resistance – Road Conditions**Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0**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 Travel Time: 0.2473 minutes  
 Total Cycle Time: 0.7823 minutes

Load Bucket Capacity

Rated Capacity:	<u>1.50</u>	LCY (heaped)
Bucket Fill Factor:	<u>0.900</u>	Other - soil, boulders, roots (80 -100%) 0.900
Adjusted Capacity:	<u>1.35</u>	LCY

Job Condition Correction FactorsSite Altitude: 6970 feet

		Source
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Unadjusted Hourly Unit Production:	<u>103.55</u>	LCY/Hour
Adjusted Hourly Unit Production:	<u>85.94</u>	LCY/Hour
Adjusted Hourly Fleet Production:	<u>85.94</u>	LCY/Hour

JOB TIME AND COST

Fleet size:	<u>1</u>	Loader(s)	Total job time:	<u>5.87</u>	Hours
Unit cost:	<u>\$0.983</u>	/LCY	Total job cost:	<u>\$495</u>	

## HYDRAULIC EXCAVATOR WORK

Task description: Generate topsoil materials for Task 4

Site: Schmidt Site Permit Action: Bond update Permit/Job#: M2011014

### PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None  
Date: 12/23/2014 County: Archuleta Filename: M014-005  
User: WHE

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56  
Attachment 1: ROPS Cab Weight (MT): 7.23  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$15.43	NA
Operating Cost/Hour:	\$20.67	100
Operator Cost/Hour:	\$28.17	NA
Total Unit Cost/Hour:	\$64.27	
Total Fleet Cost/Hour:	\$64.27	

### MATERIAL QUANTITIES

Initial volume: 403 CCY Swell factor: 1.250  
Loose volume: 504 LCY

Source of estimated volume: (1ac)(43560sf/ac)(0.25'D) / 27 = 806.67 cy  
Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: AVERAGE  
Secondary Job Condition within Basic Description: AVERAGE  
Cycle Time Value: 0.242 minutes

#### Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small  
Bucket Fill Factor: 0.900 Other - soil, boulders, roots (80 -100%) 0.900  
Adjusted Capacity: 0.18 LCY

#### Job Condition Correction Factors

Site Altitude: 6970 feet

Altitude Adj:	<u>0.90</u>	Source
Job Efficiency:	<u>0.83</u>	(CAT HB)
Net Correction:	<u>0.75</u>	(1 shift/day)
		multiplier

Unadjusted Hourly Unit Production: 44.63 LCY/Hour  
Adjusted Hourly Unit Production: 33.34 LCY/Hour  
Adjusted Hourly Fleet Production: 33.34 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 15.12 Hours  
Unit cost: \$1.928 /LCY Total job cost: \$972

REVEGETATION WORKTask description: Revegetate affected landsSite: Schmidt SitePermit Action: Bond updatePermit/Job#: M2011014PROJECT IDENTIFICATIONTask #: 006State: ColoradoAbbreviation: NoneDate: 12/23/2014County: ArchuletaFilename: M014-006User: WHEAgency or organization name: DRMSFERTILIZINGMaterials

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

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$52.71
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$52.71</b>

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	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
<b>Totals Seed Mix</b>	<b>25.00</b>	<b>80.88</b>	<b>\$52.68</b>

Application

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

<b>Total Seed Application Cost/Acre</b>	<b>\$261.28</b>
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**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
<b>Total Mulch Materials Cost/Acre</b>				<b>\$265.00</b>

**Application**

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

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$0.00</b>

**JOB TIME AND COST**

No. of Acres:	1	Cost /Acre:	\$872.33
Estimated Failure Rate:	25%	Cost /Acre*:	\$872.33
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		
Initial Job Cost:	\$872.33		
Reseeding Job Cost:	\$218.08		
Total Job Cost:	\$1,090		
Job Hours:	8.00		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Haul reclamation equipment to and from job siteSite: Schmidt SitePermit Action: Bond updatePermit/Job#: M2011014**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 12/23/2014County: ArchuletaFilename: M014-007User: WHEAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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 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
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Subtotals: **\$0.00** **\$0.00**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>PAGOSA SPRINGS</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,394.68</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
'** one round trip, no haul rig:	

**Transportation Cycle Time:**

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

**JOB TIME AND COST**

Total job time:	<u>2.80</u>	Hours
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Total job cost:	<u>\$2,395</u>
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Schmidt Site  
M-2011-014  
November 12, 2014  
Photo 1





Schmidt Site  
M-2011-014  
November 12, 2014  
Photo 2





Schmidt Site  
M-2011-014  
November 12, 2014  
Photo 3





Schmidt Site  
M-2011-014  
November 12, 2014  
Photo 4





Schmidt Site  
M-2011-014  
November 12, 2014  
Photo 5







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 2<sup>nd</sup> 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,

Kenneth Feyen P.E.  
Interim Planning Manager

Cc Archuleta County Building Department