

October 7, 2014

George Robinson  
Wildcat Mining Corporation  
3926 North State Highway 67  
Sedalia, CO 80135



**COLORADO**  
Division of Reclamation,  
Mining and Safety  
Department of Natural Resources

1313 Sherman Street, Room 215  
Denver, CO 80203

***RE: Mayday Idaho Mine Complex, Permit No. M-1981-185, Surety Reduction Request (SR1),  
Denial***

Dear Mr. Robinson:

On August 13, 2014 the Division of Reclamation Mining and Safety (Division) received your request for partial release of the financial warranty. The Division currently holds a financial warranty amount of \$204,562.00 for this site. You requested release of \$157,151.38 based on completion of construction of the new access road which is to remain as a permanent feature of the property. On September 30, 2014 the Division inspected the site in order to evaluate the remaining reclamation liability. The Division determined that the financial warranty shall be no less than \$170,252.56 (see enclosed reclamation cost estimate). Therefore the Division has denied your request for release of \$157,151.38.

Please note that because this mine is a Designated Mining Operation (DMO), any future financial warranty request shall be submitted in accordance with Rule 7.2.10.

If you require additional information, or have questions or concerns, please contact me at the Division's Grand Junction Field Office.

Sincerely,



**Dustin Czaplak**

Environmental Protection Specialist  
Department of Natural Resources  
Division of Reclamation, Mining and Safety  
101 South 3<sup>rd</sup>, Suite 301  
Grand Junction, CO 81501  
Phone: (970) 243-6299  
Fax: (970) 241-1516

Enclosure: DRMS Reclamation Cost Summary, October 1, 2014

Cc: Russ Means, DRMS  
Tony Waldron, DRMS  
Jeff Fugate, AGO



## COST SUMMARY WORK

Task description: **SR1 Cost Estimate**

Site: **May Day Idaho Mine Complex**

Permit Action: **SR1**

Permit/Job#: **M1981185**

### PROJECT IDENTIFICATION

Task #: **000**

State: **Colorado**

Abbreviation: **None**

Date: **10/1/2014**

County: **La Plata**

Filename: **M185-000**

**11:38:22 AM**

User: **DMC**

Agency or organization name: **DRMS**

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo and disposal of structures and equipment at May Day 1	DEMOLISH	1	80.00	\$93,209.31
02a	Seal two portals at May Day 1 area	MINESEAL	1	20.00	\$2,448.00
03a	Highwall reduction at May Day 1 area	EXCAVATE	1	7.00	\$729.00
04a	Grade dump at May Day 1 - construct terraces and berms	DOZER	1	2.23	\$467.00
05a	Seal portal at May Day 2 area	MINESEAL	1	8.00	\$1,224.00
06a	Highwall reduction at May Day 2 area	EXCAVATE	1	3.50	\$365.00
07a	Grade dump at May Day 2 area - restore LDG	EXCAVATE	1	3.35	\$349.00
08a	Highwall reduction at May Day 3 portal	EXCAVATE	1	1.56	\$163.00
09a	Grade dump at May Day 3 area - construct terraces and berms	EXCAVATE	1	1.28	\$134.00
10a	Seal Chief Tunnel	MINESEAL	1	8.00	\$1,224.00
11a	Highwall reduction at Chief Tunnel	EXCAVATE	1	1.04	\$109.00
12a	Remove access road and restore LDG at Chief Tunnel	EXCAVATE	1	1.88	\$196.00
13a	Dispose of equipment and debris at Idaho area	DEMOLISH	1	20.00	\$5,085.13
14a	Finish grade Idaho area - proposed aug. pond area	DOZER	1	3.44	\$718.00
15a	Vegetate disturbed areas	REVEGE	1	8.00	\$9,754.00
16a	Seal monitoring wells (4 wells)-depths are approximated due	BOREHOLE	1	40.00	\$11,855.45
17a	Mobilize reclamation crew and equipment	MOBILIZE	1	3.33	\$2,729.00
<b><u>SUBTOTALS:</u></b>				<b>212.61</b>	<b>\$130,758</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02%

Performance bond: 1.05%

Job superintendent: 106.30 hrs

Profit: 10.00%

Total = \$2,641.31

Total = \$1,372.96

Total = \$7,989.51

Total = \$13,075.80

TOTAL O & P = \$25,079.58

CONTRACT AMOUNT (direct + O & P) = \$155,837.58

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>0.00</u>	Total =	<u>0.00</u>
Engineering work and/or contract/bid preparation:	<u>4.25%</u>	Total =	<u>\$6,623.10</u>
Reclamation management and/or administration:	<u>5.00%</u>		<u>\$7,791.88</u>
CONTINGENCY:	0.00	Total =	<u>\$0.00</u>
		TOTAL INDIRECT COST =	<u>\$39,494.56</u>
		<b>TOTAL BOND AMOUNT (direct + indirect) =</b>	<b><u>\$170,252.56</u></b>

## DEMOLITION WORK

Task description: Demo and disposal of structures and equipment at May Day 1 area

May Day Idaho Mine  
Site: Complex

Permit Action:  
SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 01A  
Date: 10/1/2014  
User: DMC

State: Colorado  
County: La Plata

Abbreviation: None  
Filename: M185-01a

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 91.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Storage containers (4)	20' x 8' x 8' (4)	Loading only, open areas (unconfined) - Track loader	190.00	CY	\$0.57	\$108.11
Water Storage Tanks (2)	25' x 6' x 6'	Loading only, open areas (unconfined) - Track loader	67.00	CY	\$0.57	\$38.12
Milling equipment and misc. debris	60 c.y.	Loading only, open areas (unconfined) - Track loader	60.00	CY	\$0.57	\$34.14
Steel set entry	100' L x 12' H x 16' W	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	19,200.00	CF	\$1.08	\$20,716.80
Concrete floor for steel set entry	100' x 15'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 200 ft. push	1,500.00	SF	\$1.71	\$2,565.00
Concrete foundation for steel sets (2)	100'	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft. - Max. 200 ft. push	200.00	LF	\$10.28	\$2,056.00
Haul to landfill (20 full trucks)	16 mi.	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	320.00	MI	\$0.52	\$166.72
Dump fees	1028 c.y.	Dump fees - Building construction materials.	1,028.00	CY	\$74.00	\$76,072.00

Job Hours: 80.00

Subtotal  
(unadjusted): \$101,756.89

Total Cost  
(adjusted for location): \$93,209.31

## SAFEGUARDING UNDERGROUND OPENINGS

Task description: Seal two portals at May Day 1 area

Site: May Day Idaho Mine Permit Action: SR1 Permit/Job#: M1981185  
Complex

### PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-02a  
11:25:48 AM  
User: DMC  
Agency or organization name: DRMS

### UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Access portal	8' x 7'	Adit closure - backfilling (per opening)	1.00	EA	\$1,224.00	\$1,224.00
Illegal mill portal	15' x 20' x 50' deep	Adit closure - backfilling (per opening)	1.00	EA	\$1,224.00	\$1,224.00

Job Hours: 20.00

Total Cost: \$2,448.00

## HYDRAULIC EXCAVATOR WORK

Task description: Highwall reduction at May Day 1 area

Site: May Day Idaho Mine  
Complex

Permit Action:

SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-03a  
11:10:18 AM  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 320D LRR 9'-6"  
Stick

Horsepower: 148

Attachment 1: ROPS Cab

Weight (MT): 21.55

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$26.63</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$49.35</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.17</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$104.15</u>	
Total Fleet Cost/Hour:	<u>\$104.15</u>	

### MATERIAL QUANTITIES

Initial volume: 1,117 CCY Swell factor: 1.215  
Loose volume: 1,357 LCY

Source of estimated volume: DRMS 2009 WHE Estimate

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: 0.284 minutes

#### Load Bucket Capacity

Rated Capacity: 1.54 LCY (heaped) Bucket Size Class: Medium  
Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825  
Adjusted Capacity: 1.27 LCY

#### Job Condition Correction Factors

Site Altitude: 9200 feet

		Source
Altitude Adj:	<u>0.87</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.72</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production:	<u>268.42</u>	<u>LCY/Hour</u>
Adjusted Hourly Unit Production:	<u>193.82</u>	<u>LCY/Hour</u>
Adjusted Hourly Fleet Production:	<u>193.82</u>	<u>LCY/Hour</u>

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 7.00 Hours

Unit cost: \$0.537 /LCY

Total job cost: \$729

**BULLDOZER WORK**Task description: Grade dump at May Day 1 - construct terraces and bermsSite: May Day Idaho Mine  
ComplexPermit Action: SR1Permit/Job#: M1981185**PROJECT IDENTIFICATION**Task #: 04A  
Date: 10/1/2014  
User: DMCState: Colorado  
County: La PlataAbbreviation: None  
Filename: M185-04aAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8U  
Horsepower: 310  
Blade Type: Universal  
Attachment: NA  
Shift Basis: 1 per day  
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$62.67	NA
Operating Cost/Hour:	\$108.22	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.01	NA

Total unit Cost/Hour: \$208.90  
Total Fleet Cost/Hour: \$208.90**MATERIAL QUANTITIES**Initial Volume: 650  
Swell factor: 1.000  
Loose volume: 650 LCYSource of estimated volume: DRMS 2009 WHE Estimate  
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feet  
Unadjusted hourly production: 931.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %  
Average site altitude: 9,200 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction Factor**

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



Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3124

Adjusted unit production: 291.03 LCY/hr  
 Adjusted fleet production: 291.03 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)  
 Unit cost: \$0.718/LCY

Total job time: 2.23 Hours  
 Total job cost: \$467

## SAFEGUARDING UNDERGROUND OPENINGS

Task description: Seal portal at May Day 2 area

May Day Idaho Mine  
Site: Complex

Permit Action:

SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 05A

State: Colorado

Abbreviation: None

Date: 10/1/2014

County: La Plata

Filename: M185-05a

11:27:22 AM

User: DMC

Agency or organization name: DRMS

### UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
May Day 2 Portal	10' x 10'	Adit closure - backfilling (per opening)	1.00	EA	\$1,224.00	\$1,224.00

Job Hours: 8.00

Total Cost: \$1,224.00

## HYDRAULIC EXCAVATOR WORK

Task description: Highwall reduction at May Day 2 area

Site: May Day Idaho Mine  
Complex

Permit Action: SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 06A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-06a  
11:13:05 AM  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 320D LRR 9'-6"  
Stick

Horsepower: 148

Attachment 1: ROPS Cab

Weight (MT): 21.55

Shift Basis: 1 per day

Data Source: (CRG)

### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$26.63	NA
Operating Cost/Hour:	\$49.35	100
Operator Cost/Hour:	\$28.17	NA
Total Unit Cost/Hour:	\$104.15	
Total Fleet Cost/Hour:	\$104.15	

### MATERIAL QUANTITIES

Initial volume: 559 CCY Swell factor: 1.215  
Loose volume: 679 LCY

Source of estimated volume: Division's 2009 estimate  
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: 0.284 minutes

### Load Bucket Capacity

Rated Capacity: 1.54 LCY (heaped) Bucket Size Class: Medium  
Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825  
Adjusted Capacity: 1.27 LCY

### Job Condition Correction Factors

Site Altitude: 8800 feet

Altitude Adj: 0.87 Source  
Job Efficiency: 0.83 (CAT HB)  
Net Correction: 0.72 (1 shift/day)  
multiplier

Unadjusted Hourly Unit Production: 268.42 LCY/Hour  
Adjusted Hourly Unit Production: 193.82 LCY/Hour  
Adjusted Hourly Fleet Production: 193.82 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 3.50 Hours

Unit cost: \$0.537 /LCY

Total job cost: \$365

## HYDRAULIC EXCAVATOR WORK

Task description: Grade dump at May Day 2 area - restore LDG

Site: May Day Idaho Mine Permit Action: SR1 Permit/Job#: M1981185  
Complex

### PROJECT IDENTIFICATION

Task #: 07A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-07a  
11:14:49 AM  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 320D LRR 9'-6" Horsepower: 148  
Stick  
Attachment 1: ROPS Cab Weight (MT): 21.55  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$26.63</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$49.35</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.17</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$104.15</u>	
Total Fleet Cost/Hour:	<u>\$104.15</u>	

### MATERIAL QUANTITIES

Initial volume: 650 CCY Swell factor: 1.000  
Loose volume: 650 LCY

Source of estimated volume: DRMS 2009 WHE Estimate  
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: 0.284 minutes

#### Load Bucket Capacity

Rated Capacity: 1.54 LCY (heaped) Bucket Size Class: Medium  
Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825  
Adjusted Capacity: 1.27 LCY

#### Job Condition Correction Factors

Site Altitude: 8800 feet

		Source
Altitude Adj:	<u>0.87</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.72</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 268.42 LCY/Hour  
Adjusted Hourly Unit Production: 193.82 LCY/Hour  
Adjusted Hourly Fleet Production: 193.82 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 3.35 Hours

Unit cost:     \$0.537     /LCY

Total job cost:     \$349

Task description: Highwall reduction at May Day 3 portal

Permit Action:

SR1

Permit/Job#: M1981185

Task #:	08A
Date:	10/1/2014
	11:17:40 AM
User:	DMC

State: Colorado  
County: La Plata

Abbreviation: None  
Filename: M185-08a

**Basic Machine:** Cat 320D LRR 9'-6"  
Stick

Horsepower: 148

Weight (MT): 21.55

Shift Basis: 1 per day

Data Source: (CRG)

Ownership Cost/Hour:	\$26.63	Utilization %
Operating Cost/Hour:	\$49.35	NA
Operator Cost/Hour:	\$28.17	100
Total Unit Cost/Hour:	\$104.15	NA
Total Fleet Cost/Hour:	\$104.15	

Initial volume:	250	CCY
Loose volume:	304	LCY

Swell factor: 1.215

Source of estimated volume: DRMS 2009 WHE Estimate

Source of estimated swell factor: Cat Handbook

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: 0.284 minutes

Rated Capacity:	1.54	LCY (heaped)	Bucket Size Class:	Medium
Bucket Fill Factor:	0.825	Blasted rock - avg. blasted	(75 - 90%)	0.825
Adjusted Capacity:	1.27	LCY		

Site Altitude: 9400 feet

Altitude Adj:	0.87	Source (CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.72	multiplier

Unadjusted Hourly Unit Production:	<u>268.42</u>	LCY/Hour
Adjusted Hourly Unit Production:	<u>193.82</u>	LCY/Hour
Adjusted Hourly Fleet Production:	<b>193.82</b>	LCY/Hour

Fleet size:	1	Excavator	Total job time:	1.57	Hours
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Unit cost: \$0.537 /LCY

Total job cost: \$163



## HYDRAULIC EXCAVATOR WORK

Task description: Grade dump at May Day 3 area - construct terraces and berms

Site: May Day Idaho Mine Permit Action: SR1 Permit/Job#: M1981185  
Complex

### PROJECT IDENTIFICATION

Task #: 09A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-09a  
11:19:52 AM  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 320D LRR 9'-6" Horsepower: 148  
Stick  
Attachment 1: ROPS Cab Weight (MT): 21.55  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$26.63</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$49.35</u>	<u>100</u>
Operator Cost/Hour:	<u>\$28.17</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$104.15</u>	
Total Fleet Cost/Hour:	<u>\$104.15</u>	

### MATERIAL QUANTITIES

Initial volume: 250 CCY Swell factor: 1.000  
Loose volume: 250 LCY

Source of estimated volume: DRMS 2009 WHE Estimate  
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: 0.284 minutes

#### Load Bucket Capacity

Rated Capacity: 1.54 LCY (heaped) Bucket Size Class: Medium  
Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825  
Adjusted Capacity: 1.27 LCY

#### Job Condition Correction Factors

Site Altitude: 9400 feet

		Source
Altitude Adj:	<u>0.87</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.72</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 268.42 LCY/Hour  
Adjusted Hourly Unit Production: 193.82 LCY/Hour  
Adjusted Hourly Fleet Production: 193.82 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 1.29 Hours

Unit cost: \$0.537 /LCY

Total job cost: \$134

## SAFEGUARDING UNDERGROUND OPENINGS

Task description: Seal Chief Tunnel

Site: May Day Idaho Mine  
Complex

Permit Action:

SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 10A

State: Colorado

Abbreviation: None

Date: 10/1/2014

County: La Plata

Filename: M185-10a

11:29:03 AM

User: DMC

Agency or organization name: DRMS

### UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Chief Tunnel	10' x 10'	Adit closure - backfilling (per opening)	1.00	EA	\$1,224.00	\$1,224.00

Job Hours: 8.00

Total Cost: \$1,224.00

## HYDRAULIC EXCAVATOR WORK

Task description: Highwall reduction at Chief Tunnel

May Day Idaho Mine  
Site: Complex

Permit Action:

SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 11A

State: Colorado

Abbreviation: None

Date: 10/1/2014

County: La Plata

Filename: M185-11a

11:22:07 AM

User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 320D LRR 9'-6"  
Stick

Horsepower: 148

Attachment 1: ROPS Cab

Weight (MT): 21.55

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$26.63	NA
Operating Cost/Hour:	\$49.35	100
Operator Cost/Hour:	\$28.17	NA
Total Unit Cost/Hour:	\$104.15	
Total Fleet Cost/Hour:	\$104.15	

### MATERIAL QUANTITIES

Initial volume: 167

CCY

Swell factor: 1.215

Loose volume: 203

LCY

Source of estimated volume: 20'H x 15'W 0.5H:1V - 2H:1V

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: 0.284 minutes

#### Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 1.54 LCY (heaped)

Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825

Adjusted Capacity: 1.27 LCY

#### Job Condition Correction Factors

Site Altitude: 9300 feet

Altitude Adj:	0.87	Source (CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.72	multiplier

Unadjusted Hourly Unit Production: 268.42 LCY/Hour

Adjusted Hourly Unit Production: 193.82 LCY/Hour

Adjusted Hourly Fleet Production: 193.82 LCY/Hour

### JOB TIME AND COST

Fleet size: 1

Excavator

Total job time: 1.05

Hours

Unit cost: \$0.537 /LCY

Total job cost: \$109

## HYDRAULIC EXCAVATOR WORK

Task description: Remove access road and restore LDG at Chief Tunnel

May Day Idaho Mine  
Site: Complex

Permit Action:  
SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 12A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-12a  
11:23:35 AM  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 320D LRR 9'-6"  
Stick

Horsepower: 148

Attachment 1: ROPS Cab

Weight (MT): 21.55

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$26.63	NA
Operating Cost/Hour:	\$49.35	100
Operator Cost/Hour:	\$28.17	NA
Total Unit Cost/Hour:	\$104.15	
Total Fleet Cost/Hour:	\$104.15	

### MATERIAL QUANTITIES

Initial volume: 300 CCY Swell factor: 1.215  
Loose volume: 365 LCY

Source of estimated volume: On site estimate

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: 0.284 minutes

#### Load Bucket Capacity

Rated Capacity: 1.54 LCY (heaped) Bucket Size Class: Medium  
Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825  
Adjusted Capacity: 1.27 LCY

#### Job Condition Correction Factors

Site Altitude: 9300 feet

Altitude Adj: 0.87 Source  
(CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.72 multiplier

Unadjusted Hourly Unit Production: 268.42 LCY/Hour  
Adjusted Hourly Unit Production: 193.82 LCY/Hour  
Adjusted Hourly Fleet Production: 193.82 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 1.88 Hours

Unit cost:     \$0.537     /LCY

Total job cost:     \$196

## DEMOLITION WORK

Task description: Dispose of equipment and debris at Idaho area

Site: May Day Idaho Mine  
Complex

Permit Action: SR1

Permit/Job#: M1981185

### PROJECT IDENTIFICATION

Task #: 13A  
Date: 10/1/2014  
10:54:35 AM  
User: DMC

State: Colorado  
County: La Plata

Abbreviation: None  
Filename: M185-13a

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 91.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Equipment and debris	10' x 10' x 20'	Loading only, open areas (unconfined) - Track loader	74.00	CY	\$0.57	\$42.11
Haul to landfill (4 full trucks)	16 mi	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	64.00	MI	\$0.52	\$33.34
Dump fees	74 c.y.	Dump fees - Building construction materials.	74.00	CY	\$74.00	\$5,476.00

Job Hours: 20.00

Subtotal  
(unadjusted): \$5,551.45

Total Cost  
(adjusted for location): \$5,085.13



BULLDOZER WORKTask description: Finish grade Idaho area - proposed aug. pond areaSite: May Day Idaho Mine  
ComplexPermit Action: SR1Permit/Job#: M1981185PROJECT IDENTIFICATIONTask #: 14A  
Date: 10/1/2014  
11:07:31 AM  
User: DMCState: Colorado  
County: La PlataAbbreviation: None  
Filename: M185-14aAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8U  
Horsepower: 310  
Blade Type: Universal  
Attachment: NA  
Shift Basis: 1 per day  
Data Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$62.67	NA
Operating Cost/Hour:	\$108.22	100
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.01	NA

Total unit Cost/Hour: \$208.90Total Fleet Cost/Hour: \$208.90MATERIAL QUANTITIESInitial Volume: 1,000  
Swell factor: 1.000  
Loose volume: 1,000 LCYSource of estimated volume: On site estimateSource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 100 feet  
Unadjusted hourly production: 931.6 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %  
Average site altitude: 8,800 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% EarthJob Condition Correction FactorOperator Skill: 0.750Source  
(AVG.)

Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3124

Adjusted unit production: 291.03 LCY/hr

Adjusted fleet production: 291.03 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.718/LCY

Total job time: 3.44 Hours

Total job cost: \$718

REVEGETATION WORKTask description: Vegetate disturbed areasSite: May Day Idaho Mine  
ComplexPermit Action: SR1Permit/Job#: M1981185PROJECT IDENTIFICATIONTask #: 15A  
Date: 10/1/2014  
11:33:42 AM  
User: DMCState: Colorado  
County: La PlataAbbreviation: None  
Filename: M185-15aAgency 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
Hand spread (MEANS 32 01 90.13 0100)	\$509.65
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$509.65</b>

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$88.58
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
<b>Total Tilling Cost/Acre</b>	<b>\$233.78</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arizona Fescue - Redondo	1.50	17.22	\$16.55
Mountain Brome - Bromar	13.00	20.89	\$44.20
Pubescent Wheatgrass - Luna	8.50	17.56	\$19.04
Yellow Sweet Clover - Madrid	0.76	4.54	\$1.94
Snowberry, Mountain	0.20	0.34	\$9.81
Timothy - Climax	0.50	14.35	\$0.58
<b>Totals Seed Mix</b>	<b>24.46</b>	<b>74.90</b>	<b>\$92.11</b>

Application

Description	Cost /Acre
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Broadcast seeding [DMG]	\$261.28
<b>Total Seed Application Cost/Acre</b>	<b>\$261.28</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
<b>Total Mulch Materials Cost/Acre</b>				<b>\$530.00</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)	\$86.68
<b>Total Mulch Application Cost/Acre</b>	<b>\$152.57</b>

**NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Pine, Ponderosa	20	Tubling, 10 cu. in. container {(MEANS)}	\$1.45	\$2.40	\$29.00
Spruce, Englemann	20	Tubling, 10 cu. in. container {(MEANS)}	\$3.85	\$2.40	\$77.00
<b>Totals Nursery Stock Cost / Acre</b>					<b>\$106.00</b>

**JOB TIME AND COST**

No. of Acres: 4 Cost /Acre: \$1,950.79  
 Estimated Failure Rate: 25% Cost /Acre\*: \$1,950.79  
 \*Selected Replanting Work Items: FERTILIZING, TILLING, SEEDING,  
NURSERY, MULCHING

Initial Job Cost: \$7,803.16  
 Reseeding Job Cost: \$1,950.79  
 Total Job Cost: \$9,754  
 Job Hours: 8.00

## BOREHOLE SEALING WORK

Task description: Seal monitoring wells (4 wells)-depths are approximated due lack of completion reports

Site: May Day Idaho Mine Permit Action: SR1 Permit/Job#: M1981185  
Site: Complex

### PROJECT IDENTIFICATION

Task #: 16A State: Colorado Abbreviation: None  
Date: 10/1/2014 County: La Plata Filename: M185-16a  
User: DMC

Agency or organization name: DRMS

### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Monitoring well MD1	Portland cement grout - 6 in. (labor, equip, materials)	6	650	650.00	LF	\$11.24	\$7,304.31
Monitoring well MD2	Portland cement grout - 6 in. (labor, equip, materials)	6	200	200.00	LF	\$11.24	\$2,247.48
Monitoring well Idaho	Portland cement grout - 6 in. (labor, equip, materials)	6	180	180.00	LF	\$11.24	\$2,022.73
Monitoring well La Plata River	Portland cement grout - 6 in. (labor, equip, materials)	6	25	25.00	LF	\$11.24	\$280.94

Job Hours: 40.00

Total Cost: \$11,855.00

EQUIPMENT MOBILIZATION/DEMobilIZATIONTask description: Mobilize reclamation crew and equipmentSite: May Day Idaho Mine  
ComplexPermit Action: SR1Permit/Job#: M1981185PROJECT IDENTIFICATIONTask #: 17AState: ColoradoAbbreviation: NoneDate: 10/1/2014County: La PlataFilename: M185-17a11:30:37 AMUser: DMCAgency or organization name: DRMSEQUIPMENT TRANSPORT RIG COSTShift 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:

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 320D L 9'-6" Stick	23.70	\$24.63	\$88.67	1	\$113.30	\$88.67	\$250.00
Cat D8T - 8U	48.33	\$56.69	\$117.55	1	\$174.24	\$117.55	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: **\$383.24** **\$294.89** **\$750.00**ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.34	1	\$15.34	\$15.34

Subtotals: **\$15.34** **\$15.34**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>15.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,718.57</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$10.23</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.33</u>	<u>0.33</u>
Return Time (Hours):	<u>0.33</u>	<u>0.33</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.67</u>	<u>0.67</u>

**JOB TIME AND COST**

Total job time:	<u>3.33</u>	Hours
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Total job cost:	<u>\$2,729</u>
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