October 7, 2014

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



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 Ezapla

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 11:38:22 AM

La Plata County:

Filename:

M185-000

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
		SUBTO	TALS:	212.61	\$130,758

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance: Performance bond:

2.02%

1.05%

Total =

Total = \$2,641.31\$1,372.96

Job superintendent:

106.30 hrs

Total = \_

\$7,989.51 Total = \$13,075.80

Profit:

10.00%

TOTAL O & P =

\$25,079.58

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

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 4.25% 5.00%	Total = Total =	0.00 \$6,623.10 \$7,791.88
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	NDIRECT COST =	\$39,494.56
TOTAL BO	OND AMOUNT (d	irect + indirect) =	\$170.252.56

# **DEMOLITION WORK**

7	Task description:	Demo and d	lisposal of struc	tures and equ	ipment at May Day 1 a	rea
Site: _	May Day Idaho Mine Complex		Permit Action:	SR1	Permit/.	Job#: <u>M1981185</u>
<u>PROJE</u>	CT IDENTIFICATION	1				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	10/1/2014	County:	La Plata		Filename:	M185-01a
	DMC				<del>-</del>	

# **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

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$101,756.89	location):	\$93,209.31

### SAFEGUARDING UNDERGROUND OPENINGS

Task description:

Seal two portals at May Day 1 area

May Day Idaho Mine

Permit Action:

Site: Complex

SR1

Permit/Job#: M1981185

### **PROJECT IDENTIFICATION**

Task #: Date:

User:

02A

10/1/2014

11:25:48 AM DMC

State: Colorado

County: La Plata

Abbreviation:

Filename:

None

M185-02a

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

Task description:	Highwall reduc	tion at May	Day 1 area			
May Day Idaho Min Complex	ne Pe	rmit Action:	SR1	Perm	nit/Job#:	M1981185
PROJECT IDENTI	<b>FICATION</b>					
Task #: 03A Date: 10/1/201- 11:10:18		Colorado La Plata		Abbrev File	viation: _ ename:	None M185-03a
User: DMC		50 - 40 - 100			_	
Agency or org	ganization name: D	RMS				
HOURLY EQUIPM	IENT COST					
Basic Machine:	Cat 320D LRR 9'-	-6"	*			
	Stick		Н	lorsepower:	1	48
Attachment 1:	ROPS Cab			eight (MT):		.55
				Shift Basis:		er day
			D	oata Source:	(C)	RG)
Cost Breakdown:		t	**.**			
Ownership Cos	st/Hour: \$26	63	Utilization %			
Operating Cos			NA 100			
Operator Cos			NA			
Total Unit Cos			4 14 2			
Total Fleet Co.		4.15				
		4.13				
MATERIAL QUAN						
Initial volume:  Loose volume:	1,117 1,357	CCY LCY	Swell factor	: 1.215		
_						
	e of estimated volume estimated swell factor		2009 WHE Estimate			
		. Cat Hair	GDOOK			
HOURLY PRODUC						
Excavator Cycle Time	(load bucket, swing lo	oaded, dump	bucket, swing empty	<u>'):</u>		
		Basic Job (	Condition Descriptio	n: AVERAG	E	
	Secondary Job C		hin Basic Description			
I and Double Co. 15			Cycle Time Valu	e: 0.284		minutes
Load Bucket Capacity						
				Bucket Size Cla	ss: Me	dium
Rated Capac		LCY (he			_	
Bucket Fill Fac Adjusted Capac			rock - avg. blasted	(75 - 90%) 0.82	5	
-		LCY				
Job Condition Correcti	on Factors		Site A	Atitude: <u>9200</u> fe	et	
		Source				
Altitude Adj:		(CAT H	<del></del>			
Job Efficiency:		(1 shift/d				
Net Correction:	0.72	multiplie	er			
U	Inadjusted Hourly Uni	it Production	: 268.42	LCY/Hour		
	Adjusted Hourly Uni			LCY/Hour		
	Adjusted Hourly Flee	t Production	193.82	LCY/Hour		
JOB TIME AND C	OST					
Fleet size:	1 Excava	itor ]	Total job time:	7.00		Hours

CIRCES Cost Estimating Software

# **BULLDOZER WORK**

Task descrip	ption:	Grade d	ump at	May Day 1	- constr	uct terraces and	berms	
May Day Idaho Mine e: Complex			Per	mit Action:	SR1		Permit/Job#:	M1981185
PROJECT	<u> IDENTIF</u>	ICATION						
Task #:	04A		State:	Colorado			Abbreviation:	None
Date:	10/1/2014		County:	La Plata			Filename:	M185-04a
User:	DMC	`	oounty.	Lu I Iulu			i nename.	W1103-04a
Aş	gency or organ	nization nan	ne: _D	RMS				
HOURLY	EQUIPME	ENT COST	<u> </u>					
Basic Ma	achine: Cat	t D8T - 8U						
Horse	power: 310	)						
Blade	Type: Un	iversal						
	hment: NA							
Shift	Basis: 1 p	er day						
Data S	Source: (CI	RG)						
Cost Break	<u>down</u> :							
0 1:	C .77					<u>Utilization %</u>		
	Cost/Hour:		\$62.67		1	NA		
	g Cost/Hour:		\$108.22	2		100		
	. Cost/Hour:		\$0.00		-	0		
Operator	Cost/Hour:		\$38.01			NA		
MATERI	AL QUANT	TITIES						
Initial Vo	lume: 650							
Swell f	actor: 1.00	00						
Loose vo	lume: <b>650</b>	LCY						
	stimated volu		DRMS 2	009 WHE E	stimate			
			Cat Hall	JOOOK				
	PRODUC							
	sh distance:		0 feet					
Unadjusted	hourly produ	ction: 93	1.6 LCY	/hr				
Materials co	onsistency des	scription:	Compa	acted fill or	embankr	ment 0.9		
Average pu	sh gradient:	0 %						
Average sit		9,200 fee	t					
Material we	eight:	3,300 lbs	/LCY				—	
Weight des	cription:	Decompo	sed rock	: - 75% Rocl	k, 25% I	Earth		
Job Conditi	on Correction	Factor				Source		
	Operator		0	.750		(AVG.)		
	Operator	DKIII.		./30		(AVG.)		

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

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 Permit Action: Site: Complex SR1 Permit/Job#: M1981185 **PROJECT IDENTIFICATION** Task #: 05A State: Colorado Abbreviation: None Date: 10/1/2014 La Plata County: 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
------------	------	-------------	------------

Task description:	Highwall reduct	ion at May	Day 2 area		
May Day Idaho Mine	e Per	mit Action:	SR1	Permit/Job#:	M1981185
PROJECT IDENTIF	<u> ICATION</u>				
Task #: 06A Date: 10/1/2014 11:13:05 A User: DMC	State: County:	Colorado La Plata		Abbreviation: Filename:	None M185-06a
	mination name. DI	D) 4C			
Agency or orga		RMS			
HOURLY EQUIPM		<i>(</i> 1)			
Basic Machine:	Cat 320D LRR 9'- Stick	6′′	]	Horsepower:	148
Attachment 1:	ROPS Cab			Shift Basis: 1 p	1.55 er day
Cost Breakdown:			1	Data Source: (C	CRG)
COSt DICARGO WII.			Utilization %		
Ownership Cost/			NA	_	
Operating Cost/			100	_	
Operator Cost/ Total Unit Cost/			NA		
Total Fleet Cost					
MATERIAL QUAN		1.15			
Initial volume:	559 579	CCY LCY	Swell facto	r: 1.215	
	of estimated volume:		's 2009 estimate		
	stimated swell factor:				
HOURLY PRODUC	TION				
Excavator Cycle Time (I		aded, dump	bucket, swing empt	v):	
	Secondary Job Co		Condition Description Description    Basic Descript		
	Secondary see es	ondition with	Cycle Time Val		minutes
Load Bucket Capacity			,		
				Bucket Size Class: Me	edium
Rated Capacit		_ LCY (he		<b>(5.5</b> - 5.5 () - 5.5 -	
Bucket Fill Facto Adjusted Capacit		LCY	rock - avg. blasted	(75 - 90%) 0.825	
Job Condition Correction			Sita	Altitude: 8800 feet	
	2 2 40 10 10	C		Annidae. <u>6600</u> feet	
Altitude Adj:	0.87	Source (CAT H			
Job Efficiency:	0.83	(1 shift/d			
Net Correction:	0.72	multiplie			
Un	adjusted Hourly Unit	Production:	268.42	LCY/Hour	
	Adjusted Hourly Unit			LCY/Hour	
	Adjusted Hourly Fleet			LCY/Hour	
JOB TIME AND CO	<u>OST</u>				
Fleet size:	1 Excavat	or T	otal job time:	3.50	Hours
	- LACAVAI	1	our job time.	3.30	Hours

CIRCES Cost Estimating Software

Task description:	Grade dump at May Day 2 area - restore LDG							
May Day Idaho Mine Complex	e Perr	nit Action:	SR1	Perm	nit/Job#: _M1981185			
PROJECT IDENTIF	<b>EICATION</b>							
Task #: 07A Date: 10/1/2014 11:14:49 A User: DMC		Colorado La Plata		Abbrev File	name: None M185-07a			
	anization name: DR	LMS						
HOURLY EQUIPM		UVIS						
Basic Machine:	Cat 320D LRR 9'-6	5"						
	Stick			Horsepower:	148			
Attachment 1:	ROPS Cab		`	Weight (MT): Shift Basis: Data Source:	21.55 1 per day (CRG)			
Cost Breakdown:				Data Source.	(CRG)			
01: 0	/II		Utilization %					
Ownership Cost/ Operating Cost/			NA 100					
Operating Cost/			100 NA					
Total Unit Cost/			INA					
Total Fleet Cost	t/Hour: \$104	.15						
MATERIAL QUANT								
Initial volume:	650 <b>650</b>	CCY LCY	Swell factor	or: 1.000	_			
	of estimated volume:		2009 WHE Estima	te				
	stimated swell factor:	Cat Han	dbook					
HOURLY PRODUC  Excavator Cycle Time (1)		dad dumm	hualeat assima aman	.4				
Excavator Cycle Time (1		_						
			Condition Descript					
	Secondary Job Co	indition wit	hin Basic Descript					
Load Bucket Capacity			Cycle Time Va	lue: 0.284	minutes			
				Bucket Size Clas	ss: Medium			
Rated Capacit	•	_ LCY (he	• '					
Bucket Fill Facto			rock - avg. blasted	(75 - 90%) 0.825	5			
Adjusted Capacit		LCY						
Job Condition Correction	n Factors			Altitude: 8800 fee	et			
Altitude Adj:	0.87	Source (CAT H						
Job Efficiency:	0.83	(1 shift/d	<del></del>					
Net Correction:	0.72	multiplie						
	nadjusted Hourly Unit			LCY/Hour				
	Adjusted Hourly Unit			LCY/Hour				
A	Adjusted Hourly Fleet	Production	193.82	LCY/Hour				
JOB TIME AND CO	<u>OST</u>							
Fleet size:	1 Excavato	or T	Total job time:	3.35	Hours			

CIRCES Cost Estimating Software

Task description:	Highwall reducti	on at May	Day 3 portal			
May Day Idaho Mine Complex	Pen	nit Action:	SR1		Permit/Job#:	M1981185
PROJECT IDENTIFIC	CATION					
Task #: 08A	State:	Colorado		Δh	breviation:	None
Date: 10/1/2014	County:	La Plata			Filename:	M185-08a
User: 11:17:40 AM DMC	·			_		
Agency or organiz	zation name: DR	MS				
HOURLY EQUIPMEN	T COST					
·	 Cat 320D LRR 9'-6	7,7				
	tick			Horsepower:		148
Attachment 1: R	OPS Cab			Weight (MT):	2	1.55
				Shift Basis:	1 p	er day
				Data Source:	(C	CRG)
Cost Breakdown:						
			Utilization %			
Ownership Cost/Ho			NA			
Operating Cost/Ho			100	_		
Operator Cost/Ho			NA			
Total Unit Cost/Ho	our: \$104.	15				
Total Fleet Cost/Ho	our: \$104.	15				
MATERIAL QUANTIT	TIES					
Initial volume: 250		CCY	Swell fact	tor: 1.215		
Loose volume: 304		LCY				
Source of	estimated volume:	TIDMS 1	2009 WHE Estima	ut o		
	nated swell factor:	Cat Han		ite		
HOURLY PRODUCTI		Out Hun	doook			
Excavator Cycle Time (load	1 bucket, swing loa	ded, dump	bucket, swing emp	<u>oty):</u>		
			Condition Descript		AGE	
	Secondary Job Co	ndition witl			AGE	
I and Dunlest Committee			Cycle Time Va	lue: 0.284		minutes
Load Bucket Capacity						
				Bucket Size	Class: Me	dium
Rated Capacity:	1.54	LCY (he	• '			
Bucket Fill Factor:	0.825		rock - avg. blasted	(75 - 90%)	0.825	
Adjusted Capacity:	1.27	LCY				
Job Condition Correction Fa	actors		Site	Altitude: 940	0 feet	
A 4.1. 4	0.05	Source				
Altitude Adj:	0.87	(CAT H				
Job Efficiency:	0.83	(1 shift/d				
Net Correction:	0.72	multiplie	r			
	usted Hourly Unit 1		268.42	LCY/Hou	r	
_	usted Hourly Unit 1		193.82	LCY/Hou	r	
Adjı	isted Hourly Fleet 1	Production:	193.82	LCY/Hou	r	
JOB TIME AND COST						
Fleet size:	- Excavato	,, т	otal ioh tim			7.7
1 1001 3126.	Excavato	ı 1	otal job time:	1.5	7	Hours

Task description:	Grad	e dump at N	May Day 3	area - construct	terraces a	nd berms	
May Day Idaho Min	e	Pen	nit Action:				
Complex		_		SR1		Permit/Job#:	M1981185
PROJECT IDENTII	FICATIO	<u>ON</u>					
Task #:09A		State:	Colorado			Abbreviation:	None
Date: 10/1/2014		County:	La Plata			Filename:	M185-09a
User: 11:19:52 A	AM						
Agency or org	anization 1	name: DR	MS				
<b>HOURLY EQUIPM</b>	ENT CO	ST					
Basic Machine:	Cat 320 Stick	D LRR 9'-6	;··		Horsepov	wer:	148
Attachment 1:	ROPS	`ah			Weight (M		1.55
1 maintain 1.	_1(015)	240			Shift Ba		er day
					Data Sou		CRG)
Cost Breakdown:							
Ownership Cost	/Llour:	<b>9</b> 26.6		Utilization %			
Operating Cost		\$26.6 \$49.3		NA 100			
Operator Cost		\$28.1		NA			
Total Unit Cost		\$104.					
Total Fleet Cos	t/Hour: _	\$104	.15				
MATERIAL QUAN							
	250		CCY	Swell fac	tor: 1.0	00	
Loose volume:	250		_ LCY				
		ted volume:	DRMS :	2009 WHE Estima	ate		
Source of e	stimated s	well factor:	Cat Han	dbook			
<b>HOURLY PRODUC</b>	CTION						
Excavator Cycle Time (	load bucke	et, swing loa	ded, dump	bucket, swing em	pty):		
			Basic Job	Condition Descrip	otion: A	VERAGE	
	Secon			hin Basic Descrip		VERAGE	
				Cycle Time V	alue: 0.2	284	minutes
Load Bucket Capacity							
					Bucket	Size Class: Me	edium
Rated Capaci		1.54	_ LCY (h				
Bucket Fill Facto		0.825		rock - avg. blaste	d (75 - 90	%) 0.825	
Adjusted Capaci		1.27	_ LCY				
Job Condition Correction	n Factors			Site	e Altitude:	9400 feet	
			Sourc	е			
Altitude Adj:		87	(CAT H	<del></del>			
Job Efficiency:		83	(1 shift/c				
Net Correction:	0.	72	multiplie	er			
Uı	nadjusted l	Hourly Unit	Production	:268.42	LCY/	Hour	
	Adjusted I	Hourly Unit	Production	: 193.82	LCY/		
1	Adjusted F	Iourly Fleet	Production	193.82	LCY/	Hour	
JOB TIME AND CO	<u>DST</u>						
Fleet size:	1	Excavato	or ]	Total job time:		1.29	Hours

CIRCES Cost Estimating Software

# SAFEGUARDING UNDERGROUND OPENINGS

	Task description:	Seal Chief T	unnel			
Site:	May Day Idaho Mine Complex		Permit Action:	SR1	Permit/.	Job#: M1981185
PROJE	CCT IDENTIFICATIO	<u>N</u>				
TD 1 11	: 10A	State:	Colorado		411	NT
Task # Date		County:	La Plata		Abbreviation: Filename:	None M185-10a

# **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

Task description:	Highwall reduction	on at Chief	Tunnel			
May Day Idaho Mine Complex	Perm	nit Action:	SR1	Pe	ermit/Job#:	M1981185
PROJECT IDENTIFIC	CATION					
Task #: 11A Date: 10/1/2014 11:22:07 AN User: DMC	State: County:	Colorado La Plata			reviation: ilename:	None M185-11a
Agency or organ	ization name: DR	MS				
HOURLY EQUIPMEN	NT COST					
	Cat 320D LRR 9'-6 Stick	,,		Horsepower:	1	48
	ROPS Cab			Weight (MT): Shift Basis: Data Source:	1 pc	l.55 er day RG)
Cost Breakdown:				-		
Ownership Cost/H Operating Cost/H Operator Cost/H Total Unit Cost/H	our: \$49.3 our: \$28.1	5 7	Utilization % NA 100 NA			
Total Fleet Cost/H	Hour: \$104.	15				
	f estimated volume: mated swell factor:	CCY LCY 20'H x 1 Cat Hand	Swell fact 5'W 0.5H:1V - 21 dbook			
Excavator Cycle Time (loa	ad bucket, swing load	led, dump l	oucket, swing em	oty):		
I and Dunlant Councilla	Secondary Job Con	Basic Job Cadition with	Condition Descript nin Basic Descript Cycle Time Va	tion: AVERA		minutes
Load Bucket Capacity				Bucket Size C	lace Ma	dium
Rated Capacity: Bucket Fill Factor:	1.54 0.825	LCY (he Blasted r	aped) ock - avg. blasted			
Adjusted Capacity:	1.27	LCY				
Adjusted Capacity: <u>Job Condition Correction I</u>		LCY	Site	Altitude: 9300	feet	
Altitude Adj: Job Efficiency: Net Correction:	0.87 0.83 0.72	Source (CAT HI (1 shift/da multiplier	B)ay)	Altitude: 9300	feet	
Altitude Adj: Job Efficiency: Net Correction: Unad Ad	0.87 0.83	Source (CAT HI (1 shift/da multiplier Production:	B)		feet	
Altitude Adj: Job Efficiency: Net Correction: Unad Ad	0.87 0.83 0.72  ljusted Hourly Unit Fliusted Hourly Unit Fliusted Hourly Fleet F	Source (CAT HI (1 shift/da multiplier Production:	B)	Altitude: 9300  LCY/Hour LCY/Hour	feet	

CIRCES Cost Estimating Software

Task description:	Remove access	s road and re	store LDG at Chief	Tunnel		
May Day Idaho Min	e P	ermit Action:				
Complex			_SR1	Per	rmit/Job#:	M1981185
PROJECT IDENTIF	FICATION					
Task #: 12A	State	e: Colorado		Abbre	eviation:	None
Date: 10/1/2014	•	: La Plata			ilename:	M185-12a
User: 11:23:35 A	<u> </u>	-		-	-	
Agency or orga	anization name:	DRMS				
<b>HOURLY EQUIPM</b>	ENT COST					
Basic Machine:	Cat 320D LRR 9	)'-6"	11	·		40
A 44 1 4 - 1 -	Stick			forsepower:		48
Attachment 1:	ROPS Cab			eight (MT): Shift Basis:		1.55
				ata Source:		er day RG)
Cost Breakdown:		1			(0	<del>NO)</del>
Ownership Cost	/Hour ¢2	6.63	Utilization %			
Operating Cost		9.35	NA 100			
Operator Cost		8.17	NA			
Total Unit Cost	/Hour: \$10	04.15				
Total Fleet Cos	t/Hour: \$1	04.15				
BALA GERENE A R. ANETANT						
MATERIAL QUAN	<u>TITIES</u>					
Initial volume:	300	CCY	Swell factor	: 1.215		
Initial volume:		CCY	Swell factor	: 1.215		
Initial volume: Loose volume: Source	300 365 of estimated volum	LCY ne: On site of	estimate	: 1.215		
Initial volume: Loose volume: Source	300 365	LCY ne: On site of	estimate	: 1.215		
Initial volume: Loose volume: Source	300 365 of estimated volum stimated swell factor	LCY ne: On site of	estimate	: 1.215		
Initial volume: Loose volume: Source Source of e	300 365 of estimated volumestimated swell factors	LCY ne: On site of Cat Han	estimate dbook			
Initial volume: Loose volume: Source Source of e	300 365 of estimated volumestimated swell factors	LCY ne: On site of Cat Han	estimate dbook bucket, swing empty	<u>):</u>	GE	
Initial volume: Loose volume: Source Source of e	300 365 of estimated volumestimated swell factor CTION load bucket, swing	LCY ne: On site of or: Cat Han  loaded, dump  Basic Job 0	estimate dbook  bucket, swing empty Condition Description hin Basic Description	r): n: _AVERA( n: _AVERA(		
Initial volume: Loose volume: Source Source of e HOURLY PRODUC Excavator Cycle Time (	300 365 of estimated volumestimated swell factor CTION load bucket, swing	LCY ne: On site of or: Cat Han  loaded, dump  Basic Job 0	estimate dbook bucket, swing empty Condition Description	r): n: _AVERA( n: _AVERA(		minutes
Initial volume: Loose volume: Source Source of e	300 365 of estimated volumestimated swell factor CTION load bucket, swing	LCY ne: On site of or: Cat Han  loaded, dump  Basic Job 0	estimate dbook  bucket, swing empty Condition Description hin Basic Description Cycle Time Valu	n: AVERA( n: AVERA( e: 0.284	GE	
Initial volume: Loose volume: Source Source of e HOURLY PRODUC Excavator Cycle Time (	of estimated volum estimated swell factor CTION load bucket, swing Secondary Job	LCY ne: On site of the correct of th	estimate dbook bucket, swing empty Condition Description hin Basic Description Cycle Time Valu	r): n: _AVERA( n: _AVERA(	GE	minutes
Initial volume: Loose volume: Source Source of e HOURLY PRODUC Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit	of estimated volumestimated swell factors.  TION  load bucket, swing  Secondary Job	LCY ne: On site of Cat Han loaded, dump Basic Job of Condition with	estimate dbook  bucket, swing empty  Condition Description hin Basic Description Cycle Time Valu  eaped)	n: AVERA( n: AVERA( e: 0.284  Bucket Size Cl	GE lass: Me	
Initial volume: Loose volume: Source Source of e HOURLY PRODUC Excavator Cycle Time (	of estimated volumestimated swell factors.  Secondary Job	LCY ne: On site of Cat Han loaded, dump Basic Job of Condition with	estimate dbook bucket, swing empty Condition Description hin Basic Description Cycle Time Valu	n: AVERA( n: AVERA( e: 0.284  Bucket Size Cl	GE lass: Me	
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Initial volume: Loose volume: Source Source of e  HOURLY PRODUCE  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Factor	of estimated volumestimated swell factors.  CTION  load bucket, swing  Secondary Job  ty: 1.54  or: 0.825  ty: 1.27	LCY ne: On site of Cat Han loaded, dump Basic Job of Condition wite  LCY (he Blasted LCY	estimate dbook  bucket, swing empty Condition Description hin Basic Description Cycle Time Valu  leaped) rock - avg. blasted Site A	n: AVERA( n: AVERA( e: 0.284  Bucket Size Cl	dass: Me	
Initial volume: Loose volume: Source Source of e  HOURLY PRODUC  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Facto Adjusted Capacit  Job Condition Correctio	of estimated volumestimated swell factors  CTION  load bucket, swing  Secondary Job  sty: 1.54 br: 0.825 ty: 1.27 n Factors	LCY ne: On site of or: Cat Han  loaded, dump  Basic Job of Condition with  LCY (he Blasted LCY)  Source	estimate dbook  bucket, swing empty  Condition Description hin Basic Description Cycle Time Valu  [Paper Paper Pap	n: AVERAGE: 0.284  Bucket Size CI (75 - 90%) 0.8	dass: Me	
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Initial volume: Loose volume: Source Source of e  HOURLY PRODUC  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Facto Adjusted Capacit  Job Condition Correctio	of estimated volumestimated swell factors  CTION  load bucket, swing  Secondary Job  sty: 1.54 br: 0.825 ty: 1.27 n Factors	LCY ne: On site of or: Cat Han  loaded, dump  Basic Job of Condition with  LCY (he Blasted LCY)  Source	bucket, swing empty Condition Description hin Basic Description Cycle Time Valu  eaped) rock - avg. blasted  Site A e [B]	n: AVERAGE: 0.284  Bucket Size CI (75 - 90%) 0.8	dass: Me	
Initial volume: Loose volume: Source Source of e  HOURLY PRODUC  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio  Altitude Adj: Job Efficiency: Net Correction:	300 365 of estimated volumestimated swell factors  CTION load bucket, swing  Secondary Job  ty: 1.54 or: 0.825 ty: 1.27 on Factors  0.87 0.83 0.72	LCY ne: On site of or: Cat Handle or	bucket, swing empty Condition Description hin Basic Description Cycle Time Valu  eaped) rock - avg. blasted  Site A  e  (B) day)	n: AVERAGE: 0.284  Bucket Size Cl (75 - 90%) 0.8	dass: Me	
Initial volume: Loose volume: Source Source of e  HOURLY PRODUC  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Facto Adjusted Capacit  Job Condition Correctio  Altitude Adj: Job Efficiency: Net Correction:  Ur	of estimated volumestimated swell factors  CTION  load bucket, swing  Secondary Job  sy: 1.54 or: 0.825 cy: 1.27 on Factors  0.87 0.83 0.72  adjusted Hourly United States (Control of the state of the swell factor)  and provided the swell factor of the swell factor o	LCY ne: On site of or: Cat Handle or	bucket, swing empty Condition Description hin Basic Description Cycle Time Valu  eaped) rock - avg. blasted  Site A  e  (B) lay) er  : 268.42	D: AVERAGE: AVERAGE: 0.284  Bucket Size Cl (75 - 90%) 0.8  Ititude: 9300 f	dass: Me	
Initial volume: Loose volume: Source Source of e  HOURLY PRODUC  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Factor Adjusted Capacit Job Condition Correctio  Altitude Adj: Job Efficiency: Net Correction:  Ur	300 365 of estimated volumestimated swell factors  CTION load bucket, swing  Secondary Job  ty: 1.54 or: 0.825 ty: 1.27 on Factors  0.87 0.83 0.72	LCY ne: On site of Cat Handle Cat	bucket, swing empty Condition Description hin Basic Description Cycle Time Valu  eaped) rock - avg. blasted  Site A  e  (B) lay) er  : 268.42 : 193.82	n: AVERAGE: 0.284  Bucket Size Cl (75 - 90%) 0.8	dass: Me	
Initial volume: Loose volume: Source Source of e  HOURLY PRODUC  Excavator Cycle Time (  Load Bucket Capacity  Rated Capacit Bucket Fill Factor Adjusted Capacit Job Condition Correctio  Altitude Adj: Job Efficiency: Net Correction:  Ur	300 365 of estimated volumestimated swell factors  CTION load bucket, swing Secondary Job  sy: 1.54 or: 0.825 cy: 1.27 on Factors  0.87 0.83 0.72 on Adjusted Hourly Under Adjusted Hourly Under Adjusted Hourly Fleen	LCY ne: On site of Cat Handle Cat	bucket, swing empty Condition Description hin Basic Description Cycle Time Valu  eaped) rock - avg. blasted  Site A  e  (B) lay) er  : 268.42 : 193.82	2): n: AVERA( n: AVERA( e: 0.284  Bucket Size Cl (75 - 90%) 0.8  Ititude: 9300 f	dass: Me	

### **DEMOLITION WORK**

7	Task description:			debris at Idaho area		
Site: _	May Day Idaho Mine Complex		Permit Action:	SR1	Permit/	Job#: <u>M1981185</u>
ROJE	CT IDENTIFICATIO	N				
Task #:	13A	State:	Colorado		Abbreviation:	None
Date:	10/1/2014	County:	La Plata		Filename:	M185-13a
	10:54:35 AM					

### **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

# **BULLDOZER WORK**

Task description:	Finish	grade Idah	o area - pr	oposed aug.	pond area		
May Day Idaho N Complex	Mine	Perm	nit Action:	SR1		Permit/Job#:	M1981185
PROJECT IDEN	TIFICATIO	<u>N</u>					
Task #: 14A		State:	Colorado			Abbreviation:	None
Date: 10/1/2		County:	La Plata			Filename:	M185-14a
	31 AM						
User: DMC	<del></del>						
Agency or	organization na	me: DR	MS				
HOURLY EQUI	PMENT COS	<u>ST</u>					
Basic Machine:	Cat D8T - 8U	ī					
Horsepower:	310						
Blade Type:	Universal						
Attachment:	NA						
Shift Basis:	1 per day						
Data Source:	(CRG)						
Cost Breakdown:							
				<u>Ut</u> ili	zation %		
Ownership Cost/Ho		\$62.67			NA		
Operating Cost/Ho		\$108.22			100		
Ripper op. Cost/Ho		\$0.00			0		
Operator Cost/He	our:	\$38.01			NA		
Total unit Cost/Hour							
Total Fleet Cost/Hou	ır: <b>\$208.9</b> 0						
MATERIAL OU	A NITTUTE C						
MATERIAL QUA							
Initial Volume:	1,000						
Swell factor:	1.000		_				
Loose volume:	1,000 LCY		_				
Source of estimated	volume:	On site es	timate				
Source of estimated	swell factor:	Cat Handl					
	_						
<b>HOURLY PROD</b>	<u>UCTION</u>						
Average push distan	ce· 1	00 feet					
Unadjusted hourly p		31.6 LCY/I	nr				
Materials consistence	y description:	Compac	ted fill or e	mbankment	0.9		
Average push gradie	ent: 0 %						
Average site altitude	: 8,800 fe	eet					
Material weight:	3,300 lb	os/LCY					
Weight description:	Decom	osed rock	- 75% Rock	, 25% Earth			
Job Condition Corre					Source		
Oper	ator Skill:	0.7	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: 3.44 Hours
Total job cost: \$718

### **REVEGETATION WORK**

Task description:

Vegetate disturbed areas

May Day Idaho Mine

Permit Action:

Site: **Complex** 

SR1

Permit/Job#: M1981185

# **PROJECT IDENTIFICATION**

Task #:

15A

State: County: Colorado La Plata

Abbreviation: Filename: None

M185-15a

Date: 10/1/2014 11:33:42 AM

User:

DMC

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
	To	tal Fertilizer	Materials Cost/Acre	\$65.40

### Application

Description		Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)		\$509.65
	Total Fertilizer Application Cost/Acre	\$509.65

### **TILLING**

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

### **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
Totals Seed Mix	24.46	74.90	\$92.11

Application

Description	Cost /Acre

Broadcast seeding [DMG]		\$261.28
	Total Seed Application Cost/Acre	\$261.28

### **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
		Total Mulch	Materials Cost/Acre	\$530.00

**Application** 

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

### **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
		Tota	ls Nursery Stoo	ck Cost / Acre	\$106.00

# **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**

Т	ask description:	Seal monitor	ring wells (4 wells)-depti	ns are approximated due la	ck of completion
	May Day Idaho Mine Complex		Permit Action: SR1	Permit/.	Job#: <u>M1981185</u>
ROJEC	CT IDENTIFICATIO	N			
ROJE( Task #:	16A	N State:	Colorado	Abbreviation:	None
			Colorado La Plata	Abbreviation: Filename:	None M185-16a

# **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/DEMOBILIZATION**

Task description: Mobilize reclamation crew and equipment

May Day Idaho Mine Permit Action:

Site: Complex SR1 Permit/Job#: M1981185

### **PROJECT IDENTIFICATION**

Task #: 17A State: Colorado Abbreviation: None

Date: 10/1/2014 County: La Plata Filename: M185-17a

User: 11:30:37 AM DMC

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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat 320D L 9'-6"	23.70	\$24.63	\$88.67	1	\$113.30	\$88.67	\$250.00
Stick							
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:

Total one-way travel distance:

Average Travel Speed:

DURANGO
miles
mph

Total Non-Roadable Mob/Demob Cost \*

'\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\*

\*\* one round trip, no haul rig:

\$2,718.57

\$10.23

### Transportation Cycle Time:

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

### **JOB TIME AND COST**

Total job time:	3.33	Hours
*		_

Total job cost: \$2,729