# STATE OF COLORADO

#### **DIVISION OF RECLAMATION, MINING AND SAFETY**

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106

Re:

July 11, 2012

Christy Woodward Denison Mines (USA) Corp. 1050 17th Street, Suite 950 Denver, CO 80265

Carnation Mine, Permit No. M-1977-416, Financial Warranty Reduction

Approval, Revision No. SR-1

Dear Ms. Woodward:

On July 10, 2012 the Division of Reclamation, Mining and Safety approved your request for a Financial Warranty Reduction to \$22,468.00.

Recall, the Division's bond recalculation resulting from changes approved under amendment AM-1 showed a reduction of the <u>required bond</u> amount from \$33,409.00 to \$32,137.00. Denison did not request a bond reduction at that time, therefore the <u>actual bond</u> amount posted was \$1,272.00 in excess of the required bond amount. Approval of this bond reduction SR-1 constitutes a reduction of the required bond in the amount of \$9,669.00. <u>However, since the actual bond amount is currently \$1,272.00 higher than the amount required, this approval reflects an effective bond reduction of \$10,941.00 of the bond amount currently posted. The updated costs are shown on the enclosed cost summary sheets. (Note: Only the tasks that were changed from those under amendment AM-1 are enclosed herewith.)</u>

Since the <u>actual amount</u> of the financial warranty that is presently posted is more than the <u>required amount</u> (as shown above), you may provide a rider to the current Financial Warranty, or submit a new Financial Warranty reflecting this reduction, at your convenience. If you wish to submit a different type of Financial Warranty, please contact our office for the applicable form, or you may find it at our website online: www.mining.state.co.us/.

If you have any questions, you may reach me at the Division's Durango Field Office: 691 CR 233, Room A-2, Durango, CO 81301; telephone 970-247-5193.

Sincerely,

Bob Oswald

Environmental Protection Specialist

Encl: Cost summary sheets, revised 7/10/12.

Cc(w/o encl): Russ Means, DRMS Grand Junction

Barbara Coria, DRMS Denver

(c:\12-07 docs\Carnation SR-1 appr/rco)



John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Piñeda Director

## COST SUMMARY WORK

Task description:

Cost summary (revised on 7/10/12 for SR-1)

Site: Carnation Mine

Permit Action: Amendment AM-1

Permit/Job#: M1977416

## PROJECT IDENTIFICATION

Task #: 000 State:

Colorado

Abbreviation:

None

Date: User:

12/5/2011 **RCO** 

County: San Miguel Filename:

M416-000

Agency or organization name: DRMS

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demolition of onsite structures	DEMOLISH	1	10.00	\$8,350.45
002	Portal closure (backfilling)	MINESEAL	1	12.00	\$2,532.00
003	Grading SW dump to 2:1	DOZER	1	5.79	\$904.75
004	Grading main dump area to 2:1	DOZER	1	1.02	\$160.02
005	Ripping compaction on mine roads and dumps	RIPPER	1	5.19	\$813.00
006	Revegetate 3.1 acre disturbance	REVEGE	1	8.00	\$2,049.17
007	Haul reclamation equipment to and from site	MOBILIZE	1	8.00	\$2,644.90
		SUBTO	OTALS:	50	\$ \$17,454.29

## **INDIRECT COSTS**

## OVERHEAD AND PROFIT:

Liability insurance: Performance bond:

Job superintendent:

2.02

1.05

20.00

10.00

Total =

\$352.58

Total = \$183.27

Total = \$1,186.00 Total = \$1,745.43

TOTAL O & P = \$3,467.28

CONTRACT AMOUNT (direct + O & P) = \$20,921.57

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

500.00 0.00 5.00

Total = 500.00

Total = \$0.00 \$1,046.08

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$5,013.36

TOTAL BOND AMOUNT (direct + indirect) = \$22,467.65

This recalculation of the bond amount, as part of bond reduction request SR-1, accounts for the demolition and removal of the shop/office building and a significant portion of the dump grading tasks that have been completed.

## **DEMOLITION WORK**

Site: Carnation I	Site: Carnation Mine		Permit Action: Amendment AM-1		Permit/Job#: M19	
PROJECT IDENT	<u>IFICATION</u>					
Task #: 001 Date: 12/5/2011 User: RCO Agenc:		State: Colorado punty: San Miguel me: DRMS		Abbreviat Filena		ne 16-001
UNIT COSTS				Location	adjustmen	nt: 96.90 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Shop/office bldg.	32x28x15	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	0.00	CF	\$0.15	\$0.00
Portal shed structure	10x20x10	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	2,000.00	CF	\$0.15	\$304.00
		Powerline or telephone	3,200.00	LF	\$2.60	\$8,313.60

Note: As part of bond reduction SR-1, the cost of demolition of the shop/office has been removed from the estimate, since the building was removed from the site, leaving only the concrete slab.

\$8,617.60

(adjusted for

location):

\$8,350.45

Subtotal

(unadjusted):

Job Hours: 10.00

# BULLDOZER WORK

Task description:	Gradii	ng SW dum	p to 2:1 (rev	vised 7/10/12 for SR-1)		
e: Carnation Mine		Perm	nit Action:	Amendment AM-1	Permit/Job#:	M1977416
PROJECT IDEN	TIFICATIO	N				
Task #: 003		State:	Colorado		Abbreviation:	None
Date: 12/5/2	011	County:	San Miguel		Filename:	M416-003
User: RCO		_				
Agency or	organization na	ame: _DRI	MS	100-100-1		
HOURLY EQUI	PMENT COS	<u>ST</u>				
Basic Machine:	Cat D6T LGI	)				
Horsepower:	200	0	200100000000000000000000000000000000000	-		
Blade Type:	Straight			_		
Attachment:	3-shank rippe	er	- 5.6	-		
Shift Basis:	1 per day			_		
Data Source:	(CRG)			-		
Cost Breakdown:				_		
				Utilization %		
Ownership Cost/He		\$49.25		NA		
Operating Cost/He		\$68.58		100		
Ripper op. Cost/He	our:	\$0.00		100		
Operator Cost/He	our:	\$38.49		NA		
Total unit Cost/Hour	:: \$0.00					
Total Fleet Cost/Hou	100					
10.00111000						
MATERIAL QUA	ANTITIES					
Initial Volume:	807					
Swell factor:	1.000		-			
	807 LCY		_			
		2	- 			
Source of estimated	_			n, Mining & Safety		
Source of estimated	swell factor: _	Cat Handb	ООК			
HOURLY PROD	UCTION					
		00.6				
Average push distant		00 feet				
Unadjusted hourly p	roduction: 3	03.3 LCY/h	r			
Materials consistence	y description:	Partly co	nsolidated st	ockpile 1.1	***	
Average push gradie	nt: -15 %					
Average site altitude		et				
	( <del>)                                      </del>					
Material weight:	_2,550 lb	s/LCY			_	
Weight description:	Sandsto	ne				
Job Condition Correct				Source		
	ator Skill:	0.7		(AVG.)		
Material co		1.10		(CAT HB)		
Dozing	g method:	1.0	00	(GEN.)		

Visibility:	0.800	(POOR)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4597

Adjusted unit production: 139.43 LCY/hr
Adjusted fleet production: 139.43 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$1.121/LCY

Total job time: 5.79 Hours
Total job cost: \$904.75

Note: The SW dump is separate and apart from the main dump, the SW dump being located west of the bend in the access road crossing the site. The dump slope is steeper than 2:1, and the grading of the dump is a necessary part of the final reclamation. Grading will involve pushing material up onto the top of the dump, since there is no room available at the present toe of the dump. The material quantity of the grading task has been recalculated and incorporated into this cost revision.

# **BULLDOZER WORK**

Task description:	Grading main dump area to 2	2:1 (revised 7/10/12 for	· SR-1)	
: Carnation Mine	Permit Action:	Amendment AM-1	Permit/Job#:	M1977416
PROJECT IDENTIFIC	CATION			
Task #: 004	State: Colorado		Abbreviation:	None
Date: 12/5/2011	County: San Miguel		Filename:	M416-004
User: $\frac{12/3/2011}{\text{RCO}}$	County:		i ilchame.	1410-004
Agency or organi	zation name: DRMS	178-	****	
HOURLY EQUIPMEN	NT COST			
Basic Machine: Cat I	D6T LGP			
Horsepower: 200	701 201	-		
Blade Type: Strai	aht	_		
	ank ripper	_		
Shift Basis: 1 per		_		
Data Source: (CRO		-		
	-)	-		
Cost Breakdown:	74			
		<u>Utilization %</u>		
Ownership Cost/Hour: _	\$49.25	NA		
Operating Cost/Hour:	\$68.58	100		
Ripper op. Cost/Hour:	\$0.00	100		
Operator Cost/Hour:	\$38.49	NA		
Total unit Cost/Hour:	\$0.00	s		
Total Fleet Cost/Hour:	\$156.32			
MATERIAL QUANTI Initial Volume: 100 Swell factor: 1.000				
Loose volume: 100 L	CY			
Source of estimated volume	e: Division of Reclamation	n. Mining & Safety		
Source of estimated swell f		,		
HOURLY PRODUCTI	ON			
HOURET TRODUCTI	<u>.on</u>			
Average push distance:	150 feet			
Unadjusted hourly products	ion: 212.5 LCY/hr	<del></del>		
		<del></del>		
Materials consistency descri	ription: Partly consolidated st	tockpile 1.1		
Average push gradient: _	-15 %			
Average site altitude:	5,800 feet			
end S				
Material weight:	2,550 lbs/LCY			
Weight description:	Sandstone			
Job Condition Correction F	actor	Source		
Operator Sk		(AVG.)		
Material consisten		(CAT HB)		
Dozing meth		(GEN.)	<del></del>	
Dozing mem	1.000	(GEN.)		

Visibility:	0.800	(POOR)		
Job efficiency:	0.830	(1 SHIFT/DAY)		
Spoil pile:	e: 0.700 (			
Push gradient:	1.329	(CAT HB)		
Altitude:	1.000	(CAT HB)		
Material Weight:	0.902	(CAT HB)		
Blade type:	1.000	(PAT)		

Net correction: 0.4597

Adjusted unit production: 97.69 LCY/hr
Adjusted fleet production: 97.69 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$1.600/LCY

Total job time: 1.02 Hours
Total job cost: \$160.02

Note: During the 5/15/12 inspection for bond reduction request SR-1, the main dump was found to be graded to a 2:1 slope. Material quantities were therefore reduced to 100 cubic yards, to account for the completed earthwork, leaving minimal funds to perform remedial earthwork on the dump during final reclamation at the site.