

1313 Sherman Street, Room 215 Denver, CO 80203

April 17, 2017

Brent Tamburelli Tamrock Gravel LLC 137 East Plum Street Trinidad, CO 81082

RE: Bottomless Pit; DRMS File No. M-2001-068; Notice of Financial Warranty

Increase (SI-01)

Dear Mr. Tamburelli,

On April 17, 2017 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$56,204.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$15,141.00 over the currently held \$41,063.00. The financial warranty calculation (copy enclosed) was based on a file review and observations made during the inspection conducted on April 11, 2017.

The Division ordered increase of the current Financial Warranty is due within 60 days (<u>June 16</u>, <u>2017</u>) from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me so that I may send you the applicable form.

If you have any questions, please contact me at (303)866-3567 x8116.

Sincerely,

Michael A. Cunningham

**Environmental Protection Specialist** 

Enclosure

CC: Wally Erickson, DRMS

Barbara Coria, DRMS



## **COST SUMMARY WORK**

Task description:

**Cost Summary** 

Site: Bottomless Pit

Permit Action: 2017 Bond Calculation

Permit/Job#: M2001068

### PROJECT IDENTIFICATION

Task #:

000

State:

Colorado

Abbreviation:

None

Date: User:

2/15/2017 MAC

County:

Las Animas

Filename:

M068-000

Agency or organization name:

**DRMS** 

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Rough grading affected areas	DOZER	1	24.49	\$4,698.00
002	Replacing topsoil	DOZER	1	54.89	\$10,529.00
003	Revegetating disturbed areas	REVEGE	1	0.00	\$30,125.00
004	Equipment Mobilization/Demobilization	MOBILIZE	1	3.33	\$1,988.00
		SUBTO	TALS:	82.71	\$47,340

### **INDIRECT COSTS**

## **OVERHEAD AND PROFIT:**

Liability insurance: Performance bond:

Job superintendent:

2.02

1.05

0.00

10.00

Total =

\$956.27 \$497.07

Total = Total = \$0.00

Total = \$4,734.00

TOTAL O & P = \$6,187.34

CONTRACT AMOUNT (direct + O & P) = \$53,527.34

## LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

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

Reclamation management and/or administration:

0.00 0.00 5.00

Total = 0.00

\$0.00 Total = \$2,676.37

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$8,863.71

TOTAL BOND AMOUNT (direct + indirect) = \$56,203.71

TOTAL BOND AMOUNT (rounded up) \$56,204.00

# **BULLDOZER WORK**

Task description:  Bottomless Pit	Rough	grading affected areas			
Bottomless Pit	*	Permit Action:	2017 Bond Calculation	Permit/Job#:	M200106
PROJECT IDE	NTIFICATIO	<u>N</u>			
Task #: 001		State: Colorado		Abbreviation:	None
	/2017	County: Las Animas		Filename:	M068-001
User: MAC	<u> </u>				
Agency o	r organization na	me: _DRMS			
HOURLY EQU	IPMENT COS	<u>8T</u>			
Basic Machine:	_Cat D8T - 8S	U	-		
Horsepower:	310		_		
Blade Type:	Semi-Univers	al	_		
Attachment:	NA		_		
Shift Basis:	1 per day	010000	_		
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/l	Hour:	\$83.81	NA		
Operating Cost/I		\$66.17	100		
Ripper own. Cost/I	lour:	\$0.00	NA		
Ripper op. Cost/I	Hour:	\$0.00	0		
Operator Cost/I	Hour:	\$41.85	NA		
Total Fleet Cost/Ho	our: \$191.83			_	
Total unit Cost/Hor Total Fleet Cost/Hor MATERIAL QU Initial Volume: Swell factor:	our: \$191.83			_	
Total Fleet Cost/Ho  MATERIAL QU  Initial Volume:	JANTITIES 4,000				
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimates	JANTITIES  4,000 1.000 4,000 LCY d volume:	Division of Reclamatio			
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MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly	JANTITIES  4,000 1,000 4,000 LCY d volume: d swell factor:  DUCTION  Ince: 2 production: 3  Incy description:	Division of Reclamatio Cat Handbook  50 feet 77.8 LCY/hr  Consolidated stockpi	n, Mining & Safety		
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MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consistent Average push grad Average site altitud Material weight:	S191.83   JANTITIES   4,000   1.000   4,000 LCY   d volume:   d swell factor:   DUCTION	Division of Reclamatio Cat Handbook  50 feet 77.8 LCY/hr  Consolidated stockpi	n, Mining & Safety  le 1.0		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consistent Average push grad Average site altitud Material weight: Weight description Job Condition Corn	S191.83   JANTITIES   4,000   1.000   4,000 LCY   d volume:   d swell factor:   DUCTION	Division of Reclamatio Cat Handbook  50 feet 77.8 LCY/hr  Consolidated stockpi	n, Mining & Safety		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consistent Average push grad Average site altitud Material weight: Weight description Ope Material of	JANTITIES  4,000 1,000 4,000 LCY d volume: d swell factor:  DUCTION  Ince: production:  2 production:  3  10: 10: 10: 10: 10: 10: 10: 10: 10: 10	Division of Reclamatio Cat Handbook  50 feet 77.8 LCY/hr  Consolidated stockpi	n, Mining & Safety  le 1.0  75% Earth  Source		
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consistent Average push grad Average site altitud Material weight: Weight description Ope Material of	JANTITIES  4,000 1.000 4,000 LCY d volume: d swell factor: DUCTION  Ince: production:  2 production: de: 5,900 fe  2,650 lb  Decompression Skill:	Division of Reclamatio Cat Handbook  50 feet 77.8 LCY/hr  Consolidated stockpi et s/LCY  sosed rock - 25% Rock, 7	n, Mining & Safety  le 1.0  75% Earth  Source (AVG.)		

Job efficiency:	0.830	(I SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4323

Adjusted unit production: 163.32 LCY/hr
Adjusted fleet production: 163.32 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$1.175/LCY

Total job time: 24.49 Hours
Total job cost: \$4,698

# **BULLDOZER WORK**

: Bottomless F			g topsoi	-			
	'it		Pen	mit Action:	2017 Bond Calculation	Permit/Job#;	M2001068
PROJECT II	<u>ENTIFIC</u>	CATION					
	02		State:	Colorado		Abbreviation:	None
	15/2017	c	ounty:	Las Anima	as	Filename:	M068-002
User: N	IAC						
Agenc	y or organiz	zation nam	e: DF	RMS	-7.5		
HOURLY EQ	<u>)UIPMEN</u>	T COST					
Basic Machi		08T - 8SU					
Horsepow					_		
Blade Ty		-Universal					
Attachme					_		
Shift Bas							
Data Sour	ce: (CRO	i)					
Cost Breakdown	<u>n</u> :						
	-				Utilization %		
Ownership Co				\$83.81	NA		
Operating Co				\$66.17	100		
Ripper own. Co				\$0.00	NA NA	_	
Ripper op. Co	st/Hour:			\$0.00	0		
Operator Co	st/Hour:			\$41.85	NA		
Total unit Cost/	Unum	\$191.83				_	
Total Fleet Cost		\$191.83					
rotar ricct cost	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$171.03					
B # 4 PPR	OHANTI	TIES					
IVIATERIAL.	* *						
MATERIAL							
Initial Volume	e: <u>11,000</u>			_			
Initial Volume Swell facto	e: 11,000 r: 1.215	)		_			
Initial Volume	e: 11,000 r: 1.215	)		<u> </u>			
Initial Volume Swell facto Loose volume	e: 11,000 r: 1.215 e: 13,365	LCY	Division (	— — — of Reclamati	on Mining & Safety		
Initial Volume Swell facto	e: 11,000 r: 1.215 e: 13,365 ated volume	LCY :	vivision of		on, Mining & Safety		
Initial Volume Swell facto Loose volume Source of estima	e: 11,000 r: 1.215 e: 13,365 ated volume ated swell fa	E LCY ciactor: C			on, Mining & Safety	<u>_</u>	
Initial Volume Swell facto Loose volume Source of estimates HOURLY PR	e: 11,000 r: 1.215 e: 13,365 ated volume ated swell fa	ELCY EXAMPLE 1  CON	at Hand		on, Mining & Safety		
Initial Volume Swell facto Loose volume Source of estima	e: 11,000 r: 1.215 e: 13,365 ated volume ated swell fa	S LCY  E: E actor: C  ON  250		book	on, Mining & Safety		
Initial Volume Swell facto Loose volume Source of estime Source of estime HOURLY PR Average push d	e: 11,000 r: 1.215 e: 13,365 ated volume ated swell fa  CODUCTI istance: rly production	S LCY 2: Exactor: C ON 250 on: 377	feet .8 LCY/	book hr	on, Mining & Safety		
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Initial Volume Swell facto Loose volume Source of estime Source of estime HOURLY PR Average push d Unadjusted hou Materials consist Average push ga Average site alt Material weight Weight descript Job Condition C	e: 11,000 r: 1.215 e: 13,365 ated volume ated swell fa  CODUCTI istance: rly production stency description description: correction F	S LCY  2: Exactor: C  ON  250  on: 377  ription:  0 %  5,900 feet  1,600 lbs/d  Top Soil  actor	feet .8 LCY/ Compa	book hr cted fill or e	mbankment 0.9		
Initial Volume Swell facto Loose volume Source of estime Source of estime HOURLY PR Average push d Unadjusted hou Materials consist Average push g Average site alt Material weight Weight descript	e: 11,000 r: 1.215 e: 13,365 ated volume ated swell fa  RODUCTI istance: rly production stency description description in the control of the	S LCY e: cactor:  ON	feet .8 LCY/ Compa  _CY	book hr	mbankment 0.9  Source (AVG.)		
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Job efficiency:	0.830	(I SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction:

0.6445

Adjusted unit production:

243.49 LCY/hr

Adjusted fleet production:

243.49 LCY/hr

# **JOB TIME AND COST**

Fleet size:

1 Dozer(s)

Unit cost:

\$0.788/LCY

Total job time:

54.89 Hours

Total job cost:

\$10,529

# **REVEGETATION WORK**

<b>Bottomless Pit</b>	Pe	sturbed areas rmit Action: 2017 I	Bond Calculati	ion Permit/Job#	#: M2001068
DOJECT IDENTI	FICATION	-			
ROJECT IDENTI				411	.,
Task #: 003 Date: 2/15/20	State: County:	Colorado Las Animas		Abbreviation: Filename:	None M068-003
User: MAC	County.	Las Allillas		rnename: _	M1009-003
Agency or or	ganization name: DF	RMS			
ERTILIZING					
laterials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials Cost/Acre	\$0.00
Description					Cost /Acre
Description			-		
		Total I	ertilizer App	olication Cost/Acre	\$0.00
II I ING					
ILLING					
Description				<u> </u>	Cost /Acre
			Tota	l Tilling Cost/Acre	Cost /Acre \$ \$0.00
			Tota	l Tilling Cost/Acre	\$
Description			Ra PL	te – Seeds per SQ.	\$
Description  EEDING  Seed Mix  Blue Grama - Hachi			Ra PL LE Ac	te – Seeds per SQ. FT re 48.97	\$ \$0.00 Cost /Acre
Description  EEDING  Seed Mix  Blue Grama - Hachi Little Bluestem - Pa	stura		Ra PL LE Ac 3.0	Seeds per SQ. FT 48.97	\$0.00 Cost /Acre \$48.81 \$117.81
Description  EEDING  Seed Mix  Blue Grama - Hachi Little Bluestem - Pa Sideoats Grama - El	istura 1 Reno		Ra PL LE Ac 3.0 7.0 9.0	ste – Seeds per SQ. FT   10   48.97   10   41.78   10   29.55	\$0.00 Cost /Acre \$48.81 \$117.81 \$87.03
Description  EEDING  Seed Mix  Blue Grama - Hachi Little Bluestem - Pa	istura 1 Reno		Ra PL LE Ac 3.0 7.0 9.0	Seeds per SQ. FT 48.97	\$0.00 Cost /Acre \$48.81 \$117.81

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

## **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$261.00	\$261.00
Total Mulch Materials Cost/Acre				\$261.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
	Total Mulch Application Cost/Acre	\$66.02

## **NURSERY STOCK PLANTING**

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

## **JOB TIME AND COST**

No. of Acres: 25.8

Estimated Failure Rate: 25%

\*Selected Replanting Work Items: SEEDING, MULCHING

Initial Job Cost: \$24,100.04

Reseeding Job Cost: \$6,025.01

Total Job Cost: \$30,125

Job Hours: 0.00

Cost /Acre: \$934.11

Cost /Acre\*: \$934.11

## **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description:

**Equipment Mobilization/Demobilization** 

Site: Bottomless Pit

Permit Action: 2017 Bond Calculation

Permit/Job#: M2001068

PROJECT IDENTIFICATION

Task #:

004 2/15/2017 State:

County:

Colorado

Las Animas

Abbreviation:

None

Filename: M068-004

Date: User:

MAC

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 Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$82.01	\$117.55	1	\$199.56	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$30.65	\$88.67	1	\$119.32	\$88.67	\$250.00

Subtotals:

\$318.88

\$206.22

\$500.00

### **ROADABLE EQUIPMENT:**

Machine Description Total Cost/hr/ Fleet Size unit	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:
Total one-way travel distance:
Average Travel Speed:
TRINIDAD
miles
45.00
mph

Total Non-Roadable Mob/Demob Cost \*
 '\* two round trips with haul rig:
Total Roadable Mob/Demob Cost \*\*
 \*\* one round trip, no haul rig:

\$0.00

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.33	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:	\$1 088	