

COLORADO Division of Reclamation, Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

October 11, 2016

Mr. James J. Theisen Theisen Mineral 1251 Bailey Dr. Brighton, CO 80603

Re: Suzanne Marie, Permit No. M-2009-093, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Theisen:

On October 11, 2016 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$3,731.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of **\$1,050.00**.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days (**December 10, 2016**) from the date of this letter. If you wish to submit a different type of Financial Warranty, please contact me such 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

Enclosure: Financial Warranty Calculation

CC: Wally Erickson, DRMS Barbara Coria, DRMS



COST SUMMARY WORK

T	ask description:						
Site:	Suzanne Marie	Permit Action:	2016 Bond Calc	ulation	Permit	/Job#:	: M2009093
<u>P1</u>	ROJECT IDENTIFICATIO	<u>DN</u>					
	Task #:000	State: Colorado			Abbreviatio	n: _]	None
	Date: <u>9/27/2016</u>	County: Larimer			Filename	e: _]	M093-000
	User: MAC						
	Agency or organization r	name: DRMS		00000			
<u>T</u>	ASK LIST (DIRECT COST	<u>'S)</u>					
Task			Form	Fleet	Task		-
	Description	•	Used	Size	Hours		Cost
001 002	Replacing overburden Replacing topsoil		DOZER DOZER	1	3.91 0.68		\$502.00 \$88.00
002	Revegetating Disturbed Area		REVEGE	1	8.00		\$1,678.00
004	Equipment Mobilization/Der		MOBILIZE	1	3.22		\$874.00
						İ	
			<u>SUBTO</u>	TALS:	15	.81	\$3,142
	DIRECT COSTS /ERHEAD AND PROFIT:						
	Liability insurance:	2.02		3	Total =	\$63.	.47
		1.05			Total =	\$32	
	•	0.00			Total =	\$0.0	
	Profit:	10.00		TOTAL	Total = 0 & P = 0		4.20
		CONTR	ACT AMOUNT				0.66
		00.111		(direct)	0	<i>ت</i> و <i>ت</i> ر ب	
LE	GAL - ENGINEERING - PROJ	JECT MANAGEMENT:					
	Financial warranty processin	g (legal/related costs):	0.00		Total =	0.00)
	Engineering work and/or co		0.00		Total =	\$0.0	
	Reclamation management	and/or administration: _	5.00		-	\$17	7.63
		CONTINGENCY:	0.00		Total =	\$0.0	00
			TOTAL IN	DIRECT	COST =	\$58	8.29
		TOTAL BON	ND AMOUNT (di	irect + in	direct) = _	\$3,7	/30.29
		TOTAL BON	ND AMOUNT (re	ounded u	ıp) =	<u>\$3,7</u>	<u>/31.00</u>

Task # 001

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BULLDOZER WORK

Task description:	Re	placing overb	urden			
: Suzanne Marie		Per	mit Action:	2016 Bond Calculation	Permit/Job#:	M2009093
PROJECT IDEN	TIFICAT	TION				
Task #: 001		State:	Colorado		Abbreviation:	None
Date: 9/27/2	2016	County:	Larimer		Filename:	M093-001
User: MAC		county.			r nename.	10095-001
		-				
Agency or	organizatio	on name: DI	RMS			
HOURLY EQUI	<u>PMENT (</u>	<u>COST</u>				
Basic Machine:	Cat D6T	XL				
Horsepower:	185					
Blade Type:	Semi-Uni	iversal				
Attachment:	NA					
Shift Basis:	l per day	<u>0</u>				
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	our:		\$41.63	NA		
Operating Cost/H			\$46.82	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H	our:		\$0.00	0		
Tupper op. Cost fr			610.07	57.4		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho	r: \$12	8.32 8.32	\$39.87	NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU	r: <u>\$12</u> ur: <u>\$12</u> ANTITIE	8.32	\$39.87	NA	*******	
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL OU</u> Initial Volume:	r: <u>\$12</u> ur: <u>\$12</u> ANTITIE 250	8.32	\$39.87	NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL OU</u> Initial Volume: Swell factor:	r: <u>\$12</u> ur: <u>\$12</u> ANTITIE 250 1.000	8.32	\$39.87	NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor: Loose volume:	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY	8.32	\$39.87	NA	******	
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL OU</u> Initial Volume: Swell factor: Loose volume: Source of estimated	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume:	8.32 <u>S</u> 	 of Reclamati	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor: Loose volume:	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume:	8.32 <u>S</u> 	 of Reclamati			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto	8.32 S Division r: Cat Hand	 of Reclamati			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto	8.32 S Division r: Cat Hand	 of Reclamati			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace:	8.32 S Division r: Cat Hand 200 feet	of Reclamati			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace:	8.32 S Division r: Cat Hand	of Reclamati			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production:	8.32 S Division r: Cat Hand 200 feet 153.6 LCY	of Reclamati	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy descriptio	8.32 S Division r: Cat Hand 200 feet 153.6 LCY/ on: Loose s	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL OU</u> Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <u>HOURLY PROE</u> Average push distar Unadjusted hourly p	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy description ent: 0 %	8.32 S Division r: Cat Hand 200 feet 153.6 LCY/ on: Loose s	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p Materials consistence	r: \$12 ur: \$12 ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy description ent: 0 % e: 4,92	8.32 S Division r: Cat Hand 200 feet 153.6 LCY on: Loose s	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude	r: $\$12$ ur: $\$12$ ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy descriptio ent: $0.\%$ e: 4.93 3.30	8.32 S Division r: Cat Hand 200 feet 153.6 LCY on: Loose s 30 feet	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description:	r: $\$12$ ur: $\$12$ ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy description ent: 0 % e: 4,92 3,30 Dec	8.32 S Division r: Cat Hand 200 feet 153.6 LCY/ on: Loose s 30 feet 00 lbs/LCY composed rock	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corres	r: $\$12$ ur: $\$12$ ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy descriptio ent: 0 % e: 4.93 3.30 Dec extion Facto	8.32 S Division r: Cat Hand 200 feet 153.6 LCY/ on: Loose s 30 feet 00 lbs/LCY composed rock or	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corres	r: $\$12$ ur: $\$12$ ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy descriptio ent: 0 % ent: 0 % c: 4,93 3,30 Dec extion Facto rator Skill:	8.32 S Division r: Cat Hand 200 feet 153.6 LCY/ on: Loose s 30 feet 00 lbs/LCY composed rock or 0.	of Reclamati book	on, Mining & Safety		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Mourly PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correc Oper Material co	r: $\$12$ ur: $\$12$ ANTITIE 250 1.000 250 LCY volume: swell facto DUCTION ace: production: cy descriptio ent: 0 % ent: 0 % c: 4,93 3,30 Dec extion Facto rator Skill:	8.32 S Division r: Cat Hand 200 feet 153.6 LCY/ on: Loose s 30 feet 00 lbs/LCY composed rock r 0. 1.	of Reclamati book hr stockpile 1.2 - 75% Rock. 750	on, Mining & Safety		

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: 0.4165

Adjusted unit production:	63.97 LCY/hr	
Adjusted fleet production:	63.97 LCY/hr	

JOB TIME AND COST

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Fleet size:	1 Dozer(s)	
Unit cost:	\$2.006/LCY	

Total job time:	3.91 Hours
Total job cost:	\$502

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BULLDOZER WORK

Task description:	Replacing topsoil			
: Suzanne Marie	Permit Action:	2016 Bond Calculation	Permit/Job#:	M2009093
PROJECT IDENTIFIC	ATION			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 9/27/2016	County: Larimer		Filename:	M093-002
User: MAC			-	
Agency or organiz	ation name: DRMS			
HOURLY EQUIPMEN	T COST			
Basic Machine: Cat D	06T XL			
Horsepower: 185				
	-Universal			
Attachment: NA				
Shift Basis: 1 per	day			
Data Source: (CRG	i)			
Cost Breakdown:				
COSI Dicardowii.	1	Utilization %		
Ownership Cost/Hour:	\$41.63	NA		
Operating Cost/Hour:	\$46.82	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$39.87	NA		
• –		147		
Total unit Cost/Hour:	\$128.32			
Total Fleet Cost/Hour:	\$128.32			
MATERIAL QUANTIT Initial Volume: 90 Swell factor: 1.000 Loose volume: 90 LC				
Source of estimated volume		ion, Mining & Safety		
Source of estimated swell fa	actor: Cat Handbook			
HOURLY PRODUCTI	<u>ON</u>			
Average push distance:	200 feet			
Unadjusted hourly producti				
onadjusted nourly producti	10010 201111			
Materials consistency descr	iption: Loose stockpile 1.2			
Average push gradient:	0 %			
	4,930 feet			
	1,600 lbs/LCY			
	Top Soil			
Job Condition Correction F.		Source		
Operator Sk		(AVG.)		
Material consisten		(CAT HB)		
Dozing meth		(GEN.)		
Visibili	ity: 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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production:	131.99 LCY/hr
Adjusted fleet production:	131.99 LCY/hr

JOB TIME AND COST

Fleet size:	l Dozer(s)
Unit cost:	\$0.972/LCY

Total job time:	0.68 Hours
Total job cost:	\$88

REVEGETATION WORK

Task description: Rever		Revegetating Di	sturbed Are	85			
Site:	Site: Suzanne Marie		Pe	rmit Action:	2016 Bond Calculation	Permit/Jol	o#: <u>M2009093</u>
<u>PI</u>	ROJECT	<u>IDENTIFI</u>	CATION				
	Task #:	_003	State:	Colorado	1	Abbreviation:	None
	Date:	9/27/2016	County:	Larimer		Filename:	M093-003
	User:	MAC					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	s
Total Tilling Cost/Ac	re \$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Kaw	5.50	16.41	\$55.33
Blue Grama - Hachita	1.50	24.48	\$16.01
Indiangrass - Cheyenne	5.00	15.24	\$46.05
Indian Ricegrass - Paloma	6.00	19.42	\$52.38
Little Bluestem - Pastura	3.60	21.49	\$57.02
Sideoats Grama - Vaughn	4.60	15.10	\$51.80
Sandberg Bluegrass - VNS	1.50	31.85	\$13.05
Needle and Thread	7.50	19.80	\$353.10
Western Wheatgrass - Rosanna	8.00	20.20	\$28.16

	Totals Seed Mix	43.20	184.01	\$672.90
Application	a			1

Description		Cost /Acre
Broadcast seeding [DMG]		\$261.80
	Total Seed Application Cost/Acre	\$261.80

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$246.00	\$492.00
Total Mulch Materials Cost/Acre				\$492.00

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,049.20
	Total Mulch Application Cost/Acre	\$3,049.20

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres: ed Failure Rate:	50%		Cost /Acre: Cost /Acre*:	 _
*Selected Replanti	ng Work Items:	SEEDING,MU	LCHING		
Initial Job Cost:					
Reseeding Job Cost:					
Total Job Cost:	\$1,678				
Job Hours:	8.00				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Equ	ipment Mobiliza	tion/Demobili	zation			
: Suzanne Mar	ie	Permit	Action: 2016	6 Bond Cal	culation I	Permit/Job#:M	2009093
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 004	1	State: Co	olorado		Abbre	viation: None	
Date: 9/2 User: M/	7/2016 AC	County: La	rimer		Fi	lename: M093	3-004
Agency	or organizatior	n name: DRMS					0
EQUIPMENT 1	FRANSPOR	T RIG COST					
					Shift bas		
				(Cost Data Sour	ce: CRG Da	ita
Truc	CTractor Desc	ription: GENE	RIC ON-HIGH			R, 6X4, DIESEI	POWERED,
Trave	k Tusilan Dasa	-intiana			(2ND HALF,		
I ruc	k Trailer Desc	ription: G			SENECK, DR (25T, 50T, AN	OP DECK EQU	IPMENT
		·			(201, 501, 711)	<u>10 1001</u>)	
Cost Breakdown:							
Available Rig C		0-25 Tons	26-50 Tons		+ Tons		
	Cost/Hour:	\$16.63	\$18.37		22.33		
	Cost/Hour:	\$44.38	\$46.13	CONTRACTOR OF A	50.07		
	Cost/Hour:	\$27.66	\$27.66		27.66		
	r Cost/Hour: t Cost/Hour:	\$0.00	\$25.39		25.39		
	Cost/Hour:	\$88.67	\$117.55	21	25.45		
NON ROADAB	LE EQUIPN	<u>AENT:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat D6T XL	23.25	\$41.63	\$88.67	1	\$130.30	\$88.67	\$250.00
				Subtotals:	\$130.30	\$88.67	\$250.00
ROADABLE E	QUIPMENT	<u>':</u>					
Machine Descrip	tion	Total Cost/hr/	Fleet Siz	ze	Haul Trip	Return Trip	
		unit			Cost/hr/ fleet	Cost/hr/ fleet	t

\$0.00

Subtotals:

\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	FORT COLLINS	
Total one-way travel distance:	25.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$873.60	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.56	0.56
Return Time (Hours):	0.56	0.56
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.61	1.11

JOB TIME AND COST

Total job time: 3.22 Hours

Total job cost: \$874