

1313 Sherman Street, Room 215 Denver, CO 80203

September 18, 2014

Mr. Thomas Latham P.O. Box 66 Debeque, CO 81630

Re: Debeque Gravel Pit, Permit No. M-1981-058, Surety Increase, Revision No. SI-2

Dear Mr. Latham,

On September 18, 2014 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$58,202.18, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$20,846.18 over the currently held \$37,356.00 financial warranty.

The Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase is due within 60 days from the date of this letter. If you wish to submit a different type of Financial Warranty or have questions regarding modification of the existing financial warranty please contact Barbara Coria at (303) 866-3567 extension 8148.

If you have any other questions regarding this permit activity please contact me at 970.241.2042.

Sincerely Travis Marshall

Environmental Protection Specialist

Enclosure - Reclamation Cost Estimate

cc: Russ Means, DRMS Barbara Coria, DRMS

> Joe C. Baxter Kirkland Construction LLLP P.O. Box 580 Rye, CO 81609





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

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### COST SUMMARY WORK

DeBeque	Gravel Pit		Permit Action:	SI-2	Permit/J	ob#: M198105
PROJEC1	<u>IDENTIFICA</u>	<u>TION</u>				
Task #:	001	State:	Colorado		Abbreviation:	None
Date:	9/18/2014	County:	Mesa		Filename:	M058-001
User:	THM					

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Rip and grade portions of Phases 1, 2 and 3 and process area	DOZER	1	62.67	\$13,104.00
02a	Distribute topsoil over 15.8 acres at 8" depth	DOZER	1	23.21	\$4,853.00
03a	Revegetation of 15.8 acres	REVEGE	1	16.00	\$22,942.00
04a	Mobilization	MOBILIZE	1	4.00	\$3,073.00
		SUBT	DTALS:	105.88	\$43,972

### **INDIRECT COSTS**

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

Liability insurance:	2.02%	Total =	\$888.23
Performance bond:	1.05%	Total =	\$461.71
Job superintendent:	52.94 hrs	Total =	\$3,978.97
Profit:	10.00%	Total =	\$4,397.20
		TOTAL O & P =	\$9,726.11
		CONTRACT AMOUNT (direct + O & P) =	\$53,698.11

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	500.00	Total = Total =	500.00 \$0.00	
Reclamation management and/or administration:	5.00%	Total –	\$2,684.91	
CONTINGENCY:	3.00	Total =	\$1,319.16	
	TOTAL I	NDIRECT COST =	\$14,230.18	
TOTAL B	\$58,202.18			

### BULLDOZER WORK

Task description:		Rip and grade portions of Phases 1, 2 and 3 and process area				
DeBeque Grave	el Pit	Perr	nit Action:	SI-2	Permit/Job#:	M1981058
PROJECT IDE	NTIFI	CATION				
Task #:01A		State:	Colorado		Abbreviation:	None
	/2014	County:	Mesa		Filename:	M058-01a
User: THM	1					
Agency o	or organi	zation name:DF	RMS			
HOURLY EQU	<b>IPME</b> I	NT COST				
Basic Machine:	Cat	D8T - 8SU				
Horsepower:	310					
Blade Type:	Sem	i-Universal				
Attachment:						
Shift Basis:		r day				
Data Source:	(CR	G)				
Cost Breakdown:						
Our analia Cast/		¢() (7		Utilization %		
Ownership Cost/ Operating Cost/		\$62.67 \$107.59		NA		
Ripper op. Cost/		\$107.59		100		
Operator Cost/	Hour:	\$38.85		NA	i	
Total unit Cost/Ho	ur:	\$209.11				
Total Fleet Cost/H	our:	\$209.11				
MATERIAL Q	UANT	ITIES				
Initial Volume:	25,49	1				
Swell factor:	1.000					
Loose volume:		1 LCY				
Source of estimate Source of estimate				tion, Mining & Safety		
Source of estimate	u swell		IUUUK			
HOURLY PRO	DICT					
		ION				
Average push dista						
** ** ** *	ance:	100 feet	-	5 		
Unadjusted hourly	ance:	100 feet	/hr			
Unadjusted hourly Materials consiste	ance: produc	100 feet tion: 852.6 LCY	/hr lidated stock	spile 1.0		
Materials consiste	ance: y produc ncy dese	100 feettion:852.6 LCYcription:Conso		spile 1.0		
Materials consiste Average push grad	ance: produc ncy dese lient:	100 feettion:852.6 LCYcription:Conso0 %		xpile 1.0		
Materials consiste	ance: produc ncy dese lient:	100 feettion:852.6 LCYcription:Conso		spile 1.0		
Materials consiste Average push grad	ance: produc ncy dese lient:	100 feettion:852.6 LCYcription:Conso0 %		spile 1.0		
Materials consiste Average push grad Average site altitu	ance: produc ncy dese lient: de:	100 feet   tion: 852.6 LCY   cription: Consol   0 % 4,865 feet	lidated stock	spile 1.0		
Materials consiste Average push grad Average site altitu Material weight:	ance: produc ncy dese lient: de: n:	100 feet   tion: 852.6 LCY   cription: Consol   0 % 4,865 feet   2,400 lbs/LCY Clay and gravel -	lidated stock	spile 1.0		
Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Con Op	ance: produc ncy desc lient: de: n: <u>rrection</u> perator S	100 feet   tion: 852.6 LCY   cription: Conso   0 % 4,865 feet   2,400 lbs/LCY Clay and gravel -   Factor 5kill: 0	lidated stock			
Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Con Op Material	ance: produc ncy desc lient: de: n: <u>rrection</u> perator S	100 feet   tion: 852.6 LCY   cription: Conso   0 % 4,865 feet   2,400 lbs/LCY Clay and gravel -   Factor Skill: 0   Skill: 0 1	lidated stock	Source		

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:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4771

Adjusted unit production:	406.78 LCY/hr	
Adjusted fleet production:	406.78 LCY/hr	

#### JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.514/LCY	

Total job time:	62.67 Hours
Total job cost:	\$13,104

# Page 1 of 2

# BULLDOZER WORK

Task description:	Distribu	te topsoil over 15.8	acres at 8" depth		
DeBeque Gravel	Pit	Permit Action:	SI-2	Permit/Job#:	M1981058
PROJECT IDEN	<b><b><u>FIFICATION</u></b></b>				
Task #: 02A		State: Colorado		Abbreviation:	None
Date: 9/18/2	014	County: Mesa		Filename:	M058-02a
User: THM					
Agency or	organization nar	ne: DRMS			
	-				
HOURLY EQUI	PMENT COST	<u>[</u>			
Basic Machine:	Cat D8T - 8SL	ſ			
Horsepower:	310				
Blade Type:	Semi-Universa	1			
Attachment:	NA				
Shift Basis:	l per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/He		\$62.67	NA		
Operating Cost/He		\$107.59	100		
Ripper op. Cost/He		\$0.00	0		
Operator Cost/He	Jur:	\$38.85	NA		
Total unit Cost/Hour	: \$209.11				
Total Fleet Cost/Hou					
1010111000 00001100					
MATERIAL QU	ANTITIES				
Initial Volume:	17,002				
Swell factor:	1.000				
Loose volume:	17,002 LCY				
—					
Source of estimated			tion, Mining & Safety		
Source of estimated	swell factor:	Cat Handbook			
HOURLY PROD	UCTION				
Average push distan		00 feet			
Unadjusted hourly p	roduction: 8:	52.6 LCY/hr			
Materials consistence	y description:	Loose stockpile 1.	2		
Average push gradie	ent: 0 %				
Average site altitude		et			
-					
Material weight:	1,600 lb	s/LCY			
Weight description:	Top Soil				
Job Condition Corre	ction Factor		Source		
		0.750			
Material co		1.200	(CAT HB	)	
Dozir	g method:	1.000	(GEN.)		
Oper Material co	rator Skill:	1.200	(AVG.) (CAT HB	)	
DUZII	5 method.	1.000	(UEN.)		

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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production:	732.64 LCY/hr	
Adjusted fleet production:	732.64 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.285/LCY

Total job time:	23.21 Hours	
Total job cost:	\$4,853	

# **REVEGETATION WORK**

Task description:	Revegetation of 15.8 a	cres			
: DeBeque Gravel Pit	Permit Action: <u>SI-2</u> Permit/Job#			: M1981058	
PROJECT IDENTIFI	CATION				
Task #: 03A   Date: 9/18/2014   User: THM	State:ColoradoAbbreviation:County:MesaFilename:			None M058-03a	
Agency or organ	ization name: DRMS				
<b>FERTILIZING</b>					
Materials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials Cost/Acre	\$0.00
Application					
Description					Cost /Acre
					\$
					,

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

# **TILLING**

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)		\$145.20
	Total Tilling Cost/Acre	\$243.21

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.25	9.76	\$5.70
Indian Ricegrass - Paloma	1.50	4.86	\$13.07
Sand Dropseed	0.10	11.94	\$0.70
Pubescent Wheatgrass - Luna	2.00	4.13	\$4.48
Sainfoin - Remont	2.00	0.87	\$5.62
Western Wheatgrass - Native	2.00	5.05	\$6.08
Saltbush, Four Wing	0.25	0.34	\$2.68
Totals Seed Mix	8.10	36.95	\$38.33

#### Application

Description Drill seeding (DRMS Cost Data)		<b>Cost /Acre</b> \$88.20
	Total Seed Application Cost/Acre	\$88.20

Total Seed Application Cost/Acre | \$88.20

#### 

#### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Banvel @ 1.0 pt/ac	1.00	ACRE	\$3.15	\$3.15
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$533.15

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
Weed spray, truck, aquatic area, nox. [DMG]		\$61.49
	Total Mulch Application Cost/Acre	\$214.06

### **NURSERY STOCK PLANTING**

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

#### JOB TIME AND COST

No. of Acres:	15.8	Cost /Acre:	\$1,116.95	
Estimated Failure Rate:	30%	Cost /Acre*:	\$1,116.95	
*Selected Replanting Work Items:	TILLING, SEEDIN	G,MULCHING		

Initial Job Cost:	\$17,647.81	
Reseeding Job Cost:	\$5,294.34	
Total Job Cost:	\$22,942	
Job Hours:	16.00	

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mol	oilization						
e: DeBeque Gravel Pit Permit Action: SI-2			Per	mit/Job#: <u>M198</u>	81058			
PROJECT IDEN	TIFICATI	ON						
Task #: 04A		State: Co	lorado			Abbre	viation: None	
Date: 9/18/2	2014		esa			Fil	ename: M058	-04a
User: THM								
Agency or	organizatior	name: DRMS						
EQUIPMENT T	RANSPOR	T RIG COST						
						Shift bas	sis: 1 per da	у
						Cost Data Sour	ce: CRG Da	ta
Truck	Tractor Desc	ription: GENI	ERIC (	DN-HIGH			R, 6X4, DIESEL	POWERED,
True als	Testilee Dees					(2ND HALF, 2	· · · · · · · · · · · · · · · · · · ·	
Iruck	Trailer Desc	ription: GENE	RICF	OLDING		ECK, DROP D , 50T, AND 100	ECK EQUIPME	NITRAILER
					(201	, 501, 110 100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Cost Breakdown:								
Available Rig Cap	acities	0-25 Tons	26-	50 Tons	51-	+ Tons		
Ownership (		\$16.63	\$	518.37	\$	22.33		
Operating (		\$44.38	\$46.13		\$50.07			
	Cost/Hour:	\$27.66	\$27.66 \$25.39			27.66		
Helper Cost/Hour:						25.39		
Total Unit (	Cost/Hour:	\$88.67	\$	117.55	\$1	25.45		
NON ROADABI	LE EQUIP	MENT:						
Machine	Weight/	Owner ship	Hau	l Rig	Fleet	Haul Trip	Return Trip	DOT Permi
Description	Unit (TONS)	Cost/hr/ unit		t/hr/unit	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat D8T - 8SU	53.08	\$69.05	\$125	5.45	1	\$194.50	\$125.45	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.	67	I	\$128.26	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.	67	1	\$95.70	\$88.67	\$250.00
				S	Subtotals:	\$418.46	\$302.79	\$750.00
				2		0110.10	<b>()</b> ()()()()()()()()()()()()()()()()()()	\$750.00
ROADABLE EQ	<u>)UIPMEN'</u>	<u>r:</u>						
Machine Description	n	Total Cost/hr/	Total Cost/hr/ unit Fl		e	Haul Trip	Return Trip	
L						Cost/hr/ fleet	Cost/hr/ flee	t
Light Duty Pickup, 4	x4, 3/4 T.	\$15.25		1		\$15.25	\$15.25	

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.	\$15.25	1	\$15.25	\$15.25	1
		Subtotals:	\$15.25	\$15.25	ר

# EQUIPMENT HAUL DISTANCE and Time

Mobilization Worksheet Cont'd

Nearest Major City or Town within project area region: Total one-way travel distance:	GRAND JUNCTION 25.00	
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost * * two round trips with haul rig:	\$3,058.17	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$15.25	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.50	0.50
Return Time (Hours):	0.50	0.50
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.00	1.00

### JOB TIME AND COST

Total job time: **4.00** Hours

Total job cost: \$3,073