

May 17, 2019

Gregory Larson 14977 Co. Rd. 97 Haxtun, CO 80731

Re: Notice of Surety Increase (SI-01), Larson Pit, Permit File No. M-2007-012

Dear Mr. Larson:

On March 20, 2019, the Division of Reclamation, Mining and Safety (Division) conducted an inspection of the Larson Pit, Permit Number M-2007-012. In accordance with Rule 4.2.1, the Division may review a financial warranty at any time to determine if the amount is sufficient to fulfill the reclamation plan. The Division currently holds a financial warranty of \$28,889.00. The Division has calculated a reclamation cost estimate for Phase 1 and Phase 2 of the Larson Pit based on the approved mining and reclamation plans. As previously discussed in the April 1, 2019 Inspection Report, the Division calculated the cost to reclaim Phase 1 and Phase 2 to be \$65,800.00. This is an increase of \$36,911.00 from the current financial warranty held.

Pursuant to Rule 4.2.1(2), the current Financial Warranty must be amended or replaced to reflect the increase within 60 days from the date of this letter, due **July 16, 2019**.

For questions regarding financial warranties, please contact Barbara Coria, the Division's Financial Assurance Specialist, at (303) 866-3567 x 8148. There are various financial warranty application forms on our website at <u>mining.state.co.us</u>.

For all other questions, please contact me at 303-866-3567 x 8132.

Sincerely,

Elliott R. Russell Environmental Protection Specialist

Enclosure: Reclamation Cost Estimate SI02 M2007012

Cc: Michael Cunningham, Division of Reclamation, Mining & Safety Barbara Coria, Division of Reclamation, Mining & Safety



COST SUMMARY WORK

Та	sk descrip	ption:	Cost Summary	(Mining Are	as 1 & 2)			
Site: _]	ite: Larson Pit		Pe	Permit Action: 2019 Update			Permit/Job#: <u>M2007012</u>	
<u>PR</u>	OJECT	IDENTIFIC	CATION					
	Task #:	000	State:	Colorado		A	Abbreviation:	None
	Date:	3/29/2019	County:	Phillips			Filename:	M012-000
	User:	ERR						
TAS	C	ency or organi Г (DIRECT		RMS				
ask	Decemin	-4			Form	Fleet	Task Hours	Cost
0.1	Descrip				Used	Size		
01	Backtil	Land (Frade N	ones to 3H·1V		DOZER		6 60	\$1 449

	Description	Uscu	DILC	110 415	005
001	Backfill and Grade Slopes to 3H:1V	DOZER	1	6.60	\$1,449
002	Replace Topsoil	DOZER	1	75.85	\$16,638
003	Seedbed Prep & Plant Cover Crop	REVEGE	1	10.00	\$13,458
004	Plant Reclamation Seed Mixture	REVEGE	1	10.00	\$20,054
005	Mob/ Demob of Reclamation Equipment	MOBILIZE	1	5.80	\$3,844
		CUDTO	TAT C.	108.25	\$55,443
		<u>SUBTO</u>	IALS:	100.20	<i>400,110</i>

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,120
Performance bond:	1.05	Total =	\$582
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$5,544
		TOTAL O & P =	\$7,246
		CONTRACT AMOUNT (direct + O & P) = $($	\$62,689

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 0.00 5.00	Total = Total =	\$0 \$0 \$3,134
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$10,381
		TOTAL (direct + indirect) =	\$65,824
TOI	TAL BO	OND AMOUNT (rounded) =	\$65,800

BULLDOZER WORK

Fask description:	Backfill	and Gra	de Slopes to	3H:1V		
Larson Pit		Perr	nit Action:	2019 Update	Permit/Job#:	M2007012
PROJECT IDENT	<u>TIFICATION</u>					
Task #: 001		State:	Colorado		Abbreviation:	None
Date: $3/29/20$)19 (County:	Phillips		Filename:	M012-001
User: ERR				_	· · · · · ·	
Agency or o	organization nam	ne: DR	MS			
HOURLY EQUIP	MENT COST	-				
	Cat D8T - 8SU					
Horsepower:	310	1				
Blade Type:	Semi-Universal			_		
Attachment:	3-shank ripper 1 per day					
	(CRG)					
Data Source:	(UNU)			_		
Cost Breakdown:						
o			A A A	<u>Utilization %</u>		
Ownership Cost/Hor			\$93.62	NA		
Operating Cost/Ho			\$73.35	100		
Ripper own. Cost/Hor			\$8.93	NA		
Ripper op. Cost/Hor			\$1.95	25		
Operator Cost/Hor	ur:		\$41.52	NA		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour	r: \$219.36					
Fotal Fleet Cost/Hour	r: \$219.36					
Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume:3 Swell factor:	r: \$219.36					
Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: 3 Swell factor: 1 Loose volume: 5 Source of estimated v	r: \$219.36 NTITIES 3,955 1.330 5,260 LCY volume: <u>I</u>	DRMS 18		ıll highwall		
Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: 3 Swell factor: 1 Loose volume: 5	r: \$219.36 NTITIES 3,955 1.330 5,260 LCY volume: <u>I</u>	DRMS 18 Cat Hand		all highwall		
Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: 3 Swell factor: 1 Loose volume: 5 Source of estimated v	r: \$219.36 NTITIES 3,955 1.330 5,260 LCY volume: <u>I</u> well factor: <u>C</u>			ıll highwall		
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Task # 001

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5690	
Adjusted unit production: 79	96.60 LCY/hr	
Adjusted fleet production: 79	96.6 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.275/LCY

Total job time:	6.60 Hours
Total job cost:	\$1,449

Page 1 of 2

BULLDOZER WORK

	eplace Topsoil				
Larson Pit	Perr	mit Action:	2019 Update	Permit/Job#:	M2007012
PROJECT IDENTIFICA	<u>TION</u>				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: $3/29/2019$	County:	Phillips		Filename:	M012-002
User: ERR	County.	<u> </u>		-	11012 002
Agency or organizati	on name: DR	RMS			
HOURLY EQUIPMENT	<u>COST</u>				
Basic Machine: Cat D8T	- 8SU				
Horsepower: 310					
Blade Type: Semi-Ur	niversal				
Attachment: 3-shank	ripper				
Shift Basis: 1 per day	у				
Data Source: (CRG)					
Cost Breakdown:					
Cost Dicardo will.			Utilization %		
Ownership Cost/Hour:		\$93.62	NA		
Operating Cost/Hour:		\$73.35	100		
Ripper own. Cost/Hour:		\$8.93	NA		
Ripper op. Cost/Hour:		\$1.95	25		
Operator Cost/Hour:		\$41.52	NA		
Total unit Cost/Hour: \$2	19.36				
Total Fleet Cost/Hour: \$2	19.36				
MATERIAL QUANTITII	19.36				
MATERIAL QUANTITII Initial Volume: 25,947	19.36				
MATERIAL QUANTITII Initial Volume: 25,947 Swell factor: 1.230	19.36 ES				
MATERIAL QUANTITII Initial Volume: 25,947	19.36 ES				
MATERIAL QUANTITII Initial Volume: 25,947 Swell factor: 1.230	19.36 Е <u>S</u> СҮ	 	8.6 Acres Outside of Cre	ekbed	
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MATERIAL QUANTITII Initial Volume: 25,947 Swell factor: 1.230 Loose volume: 31,915 Log Source of estimated volume:	19.36 ES CY Appplicat or: Cat Hand		8.6 Acres Outside of Cre	ekbed	
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MATERIAL QUANTITII Initial Volume: 25,947 Swell factor: 1.230 Loose volume: 31,915 L0 Source of estimated volume: Source of estimated volume: Source of estimated volume: Source of estimated swell factor HOURLY PRODUCTION Average push distance: Unadjusted hourly production: Materials consistency description: Average push gradient: -20 Average site altitude: 4,0 Material weight: 2,1 Weight description: Ea Job Condition Correction Factor Ea	19.36 ES CY or: Appplicat or: Cat Hand N 200 feet ion: Partly c 0 % 00 lbs/LCY orth - Loam 0. 0. 0. 1. 0.	book hr consolidated	stockpile 1.1	eekbed	

Task # 002

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.8554	
Adjusted unit production: 42	20.77 LCY/hr	
Adjusted fleet production: 42	20.77 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.521/LCY

Total job time:	75.85 Hours
Total job cost:	\$16,638

REVEGETATION WORK

Task description:		Seedbed Prep & Plant Cover Crop			
ite: Larson Pit		Permit Action: 2019 Update		Permit/Job#: M2007012	
PROJECT	<u>IDENTIFIC</u>	CATION			
Task #:	003	State: Colorado		Abbreviation:	None
Date:	3/29/2019	County: Phillips		Filename:	M012-003
	ERR				

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sorghum, Sudan - Arikaree	15.00	8.61	\$10.35
Totals Seed Mix	15.00	8.61	\$10.35

Application

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

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

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

	No. of Acres:	38.6	Cost /Acre:	\$348.64
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$0.00
*Selected Replanti	ng Work Items:	NONE		
Initial Job Cost:	\$13,457.50			
Reseeding Job Cost:	\$0.00		_	
Total Job Cost:	\$13,458			
Job Hours:	10.00			

REVEGETATION WORK

Task description:		Plant Reclamation Seed Mixture				
ite: Larson Pit		Permit Action:	2019 Update	Permit/Job	#: <u>M2007012</u>	
	<u> IDENTIFIC</u>					
Task #:	004	State: Colorado		Abbreviation:	None	
Date:	3/29/2019	County: Phillips		Filename:	M012-004	
User:	ERR					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	121.20	pound	\$0.34	\$41.21
Triple superphosphate, 0-46-0	86.90	pound	\$0.44	\$38.24
			Total Fertilizer Materials Cost/Acre	\$79.44

Application

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

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.50	8.16	\$8.33
Prairie Clover, Purple - Kaneb	0.50	3.42	\$28.94
Little Bluestem - Pastura	2.10	12.53	\$36.20
Sideoats Grama - El Reno	2.70	8.86	\$26.73
Western Wheatgrass - Arriba	2.40	6.06	\$19.87
Totals Seed Mix	8.20	39.04	\$120.08

Application

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Totals Nursery Stock Cost / Acre		\$0.00			

No. of Acres:	38.6	Cost /Acre:	\$431.52
Estimated Failure Rate:	25%	Cost /Acre*:	\$352.08
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$16,656.67
Reseeding Job Cost:	\$3,397.57
Total Job Cost:	\$20,054
Job Hours:	10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	on: Mo	ob/ Demob of Recl	amation Equip	ment			
e: Larson Pit		Permit	Action: 2019	Update	1	Permit/Job#: <u>M</u>	2007012
PROJECT ID	ENTIFICAT	ION					
Task #: 0	005	State: Co	olorado		Abbre	eviation: None	
	3/29/2019	County: Ph	illips		Fi	ilename: M012	
User: E	ERR		*				
Agenc	y or organizatio	on name: DRMS					
EQUIPMENT	TRANSPOR	RT RIG COST					
					Shift ba	sis: 1 per da	IV
					Cost Data Sou		
Tru	ick Tractor Des	cription: GENE	RIC ON-HIGH		UCK TRACTO (2ND HALF,	DR, 6X4, DIESE	L POWERED,
T.	uck Trailer Des	amintian.			· · · · · · · · · · · · · · · · · · ·	2006) ROP DECK EQU	IDMENT
11	uck Italiel Des	cription. Of			(25T, 50T, AN		
			,	MILLI	(251, 501, 74	(D 1001)	
Cost Breakdown	<u>ı:</u>						
Available Rig	Capacities	0-25 Tons	26-50 Tons	51-	+ Tons		
Ownersh	nip Cost/Hour:	\$16.63	\$18.37	\$2	22.33		
Operati	ng Cost/Hour:	\$44.38	\$46.13	\$	50.07		
	tor Cost/Hour:	\$27.66	\$27.66		27.66		
	per Cost/Hour:	\$0.00	\$25.39		25.39		
Total U	nit Cost/Hour:	\$88.67	\$117.55	\$1	25.45		
NON ROADA	BLE EQUIP	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)		t	5120	fleet		
Cat D8T - 8SU	53.08	\$102.55	\$125.45	1	\$228.00	\$125.45	\$250.00
Drill/Broadcast	25.00	\$15.54	\$88.67	2	\$208.42	\$177.34	\$500.00
Seeder with Tractor							

 Subtotals:
 \$436.42
 \$302.79
 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		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:	YUMA 35.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$3,844.15	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.70	0.70
Return Time (Hours):	0.70	0.70
Loading Time (Hours):	0.75	NA
Unloading Time (Hours):	0.75	NA
Subtotals:	2.90	1.40

JOB TIME AND COST

Total job time: **5.80** Hours

Total job cost: _____\$3,844