

October 6, 2023

1313 Sherman Street, Room 215 Denver, CO 80203

Randy Riggs Bull Dog Trucking, Inc. PO Box 271 Creede, CO 81130

RE: Soward Ranch Pit, Permit No. M-1988-021, Notice of Surety Increase (SI-3)

Dear Mr. Riggs:

On October 6, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$25,105.00. Per rule 4.2.1 of the Rules and Regulations, the Financial Warranty is periodically updated to ensure that the Division holds a sufficient sum to cover the cost of reclamation. The increase in the Financial Warranty is due to the increases in the cost of fuel, equipment, and labor since the last update.

Staff calculations estimate the cost to reclaim the above referenced site to be \$25,105. This is an increase of \$10,071 over the \$15,034 currently held by the Division. This estimate is based on conditions observed during the July 19, 2023 inspection.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, must be submitted within 60 days from the date of this letter.

Please make arrangements with Sara M Stevenson-Benn at the Division of Reclamation, Mining and Safety Denver Office (phone no. 303.866.3567, ext. 8148 or by email at sara.stevenson-benn@state.co.us) for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara Stevenson-Benn.

If you require additional information, or have questions or concerns, please contact me by phone (720) 688-0626 or by email at todd.jesse@state.co.us

Sincerely,

Todd Jesse

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety 101 South 3rd, Suite 301 Grand Junction, CO 81501

Phone: (720) 688-0626

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

7	Γask description:	Cost Summary				
Site:	Soward Ranch Pit	Permit Action	on: SI-03		Permit/Jol	b#: M1988021
<u>P</u>	ROJECT IDENTIFICA	ATION				
	Task #: 000	State: Colorad	lo		Abbreviation:	None
	Date: 9/8/2023	County: Mineral			Filename:	M021-000
	User: TJ1					
	Agency or organiza	ation name: DRMS				
<u>T</u>	ASK LIST (DIRECT C	COSTS)		T21 4		
Task	Description		Form Used	Fleet Size	Task Hours	Cost
001	Reduce Highwall to 3:	1	DOZER	1	2.81	\$1,200
002	Grade Processing Area		DOZER	1	7.44	\$3,175
003	Rip Compaction in Pit	Floor	RIPPER	1	3.66	\$1,642
004	Spread Topsoil		DOZER	1	9.16	\$3,907
005	Revegetate Disturbed	Area	REVEGE	1	0.00	\$7,001
006	Haul Reclamation Equ	ipment To and From Site	MOBILIZE	1	3.20	\$2,508
007	Secondary Mobilizatio	n for Reseeding	MOBILIZE	1	3.20	\$781

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Total = \$408 Performance bond: Total = \$212 1.05 Job superintendent: 0.00 Total = \$0 Profit: 10.00 Total = \$2,021

SUBTOTALS:

TOTAL O & P = \$2,642

29.47

\$20,214

CONTRACT AMOUNT (direct + O & P) = \$22,856

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500

Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 5.00 \$1,143

CONTINGENCY: 3.00 Total = \$606

TOTAL INDIRECT COST = \$4,891

TOTAL BOND AMOUNT (direct + indirect) = \$25,105

BULLDOZER WORK

Task description: Reduce Highwall to 3:1			
te: Soward Ranch Pit Permit Action:	SI-03	Permit/Jol	o#: M1988021
PROJECT IDENTIFICATION			
Task #: 001 State: Colorado Date: 9/8/2023 County: Mineral User: TJ1		Abbreviation: Filename:	None M021-001
Agency or organization name: DRMS			
HOURLY EQUIPMENT COST			
Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day	_ _ _ _		
Data Source: (CRG)	-		
Cost Breakdown:	<u>Utilization %</u>		
Ownership Cost/Hour: \$241.38 Operating Cost/Hour: \$143.92	NA 100		
Ripper own. Cost/Hour:	NA		
Ripper op. Cost/Hour: \$0.00	0		
Operator Cost/Hour: \$41.30	NA		
MATERIAL QUANTITIES Initial Volume: 1,500 Swell factor: 1.330 Loose volume: 1,995 LCY			
Source of estimated volume: Source of estimated swell factor: Division of Reclamatic Cat Handbook	on, Mining & Safety		
HOURLY PRODUCTION			
Average push distance: 50 feet Unadjusted hourly 1,400.0 LCY/hr production:			
Materials consistency description: Compacted fill or en	mbankment 0.9		
Average push -20 % gradient:			
Average site altitude: 8,900 feet			
Material weight: 2,900 lbs/LCY		_	
Weight description: Decomposed rock - 50% Rock	, 50% Earth		
Job Condition Correction Factor	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5068

Adjusted unit production:
Adjusted fleet 709.52 LCY/hr

production: **709.52** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.601/LCY

Total job time: 2.81 Hours
Total job cost: \$1,200

BULLDOZER WORK

Task description:	Grade Processin	g Area			
e: Soward Ranch Pit	Pe	rmit Action: _S	SI-03	Permit/Jo	b#: <u>M1988021</u>
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 002 Date: 9/8/2023 User: TJ1	State: County:	Colorado Mineral		Abbreviation: Filename:	None M021-002
Agency or orga	anization name: DI	RMS			
HOURLY EQUIPMI	ENT COST				
Horsepower: 3 Blade Type: So Attachment: N Shift Basis: 1	at D8T - 8SU 10 emi-Universal A per day CRG)				
Cost Breakdown:	JKU)				
Ownership Cost/Hour:		\$241.38	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$143.92	100		
Ripper own Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Swell factor: 1.1	736 65 255 LCY	_			
Source of estimated vo Source of estimated sw factor:	lume: Division		, Mining & Safety		
HOURLY PRODUC	TION				
Average push distance: Unadjusted hourly production:	100 feet 852.6 LCY	/hr	_		
Materials consistency of	lescription: Compa	cted fill or emb	ankment 0.9		
Average push gradient:	0 %				
Average site altitude:	8,900 feet				
Material weight:	2,900 lbs/LCY			_	
Weight description:	Decomposed rock	- 50% Rock, 5	0% Earth		
Job Condition Correction	n Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production:
Adjusted fleet production:

303.01 LCY/hr

303.01 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) Unit cost: \$1.408/LCY

Total job time: 7.44 Hours
Total job cost: \$3,175

BULLDOZER RIPPING WORK

Task description:	Rip Compaction in Pit Floor	r			
Site: Soward Ranch Pit	Permit Action:	SI-03	Permit/Jo	ob#: <u>M198802</u>	21
PROJECT IDENTIFI	<u>CCATION</u>				
Task #: 003 Date: 9/8/2023 User: TJ1	State: Colorado County: Mineral		Abbreviation: Filename:	None M021-003	
	nization name: DRMS				
HOURLY EQUIPME	NT COST				
Basic Machine Ripper Attachmen				310 per day (CRG)	
Cost Breakdown:					
	rship Cost/Hour:ating Cost/Hour:	\$241.38 \$143.92	Utilization % NA 100		
	rship Cost/Hour:	\$14.11 \$7.45	NA 100		
	rating Cost/Hour:erator Cost/Hour:	\$41.30	100 NA		
<u>-</u>	Unit Cost/Hour:	\$448.16			
Total	Fleet Cost/Hour: \$448	3.16			
	Bank Volume: Rip Depth (ft):	NA 1.00	BCY Volume: 4,033	NA	BCY or CC
Source	of estimated quantity: <u>Curren</u>	t Map			
HOURLY PRODUCT	CION				
<u>Seismic:</u>	Seismic Velocity:	NA	feet/second		
Area:	Average Ripping Depth:	1.00	feet/pass		
	Average Ripping Width:	7.08	feet/pass		
	Average Ripping Length:	500.00	feet/pass		
	Average Dozer Speed:Average Maneuver Time:	88.00 0.25	feet/minute minutes/pass		
	Production per unit area:	0.822	acres/hour		
Job Condition Correction	<u>Factors</u>				
Unadjusted	Hourly Unit Production:	0.822	Acres/hr		
	Site Altitude:	8,900	feet		
	Altitude Adj: Job Efficiency:	1.00 0.83	(CAT HB)		
	Net Correction:	0.83	(1 shift/day) multiplier		
	djusted Hourly Unit Production:	0.68 0.68	Acres/hr Acres/hr		
JOB TIME AND COS	<u>ST</u>				
Fleet size:	Grader(s)	Total job time:	3.66	Hours	
Unit cost: \$656	5.865 Per acre	Total job cost:	\$1,642		

BULLDOZER WORK

Task description: Spread Topsoil	
te: Soward Ranch Pit Permit Act	tion: SI-03 Permit/Job#: M1988021
PROJECT IDENTIFICATION	
Task #: 004 State: Colora Date: 9/8/2023 County: Miner User: TJ1	
Agency or organization name: DRMS	
HOURLY EQUIPMENT COST	
Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal Attachment: NA Shift Basis: 1 per day	
Data Source: (CRG)	
Cost Breakdown:	Utilization %
Ownership Cost/Hour: \$241.3 Operating Cost/Hour: \$143.9	
Ripper own. Cost/Hour:	
Ripper op. Cost/Hour: \$0.0	.00 0
Operator Cost/Hour: \$41.3	
MATERIAL QUANTITIES Initial Volume: 2,823 Swell factor: 1.000	
Loose volume: 2,823 LCY	
Source of estimated volume: Source of estimated swell factor: Division of Recla Cat Handbook	amation, Mining & Safety
HOURLY PRODUCTION	
Average push distance: 200 feet Unadjusted hourly 491.9 LCY/hr production:	
Materials consistency description: Consolidated st	stockpile 1.0
Average push 0 % gradient:	
Average site altitude: 8,900 feet	
Material weight: 1,600 lbs/LCY	
Weight description: Top Soil	
Job Condition Correction Factor	<u>Source</u>

Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6266

Adjusted unit production:
Adjusted fleet production:

308.22 LCY/hr

308.22 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) Unit cost: \$1.384/LCY

Total job time: 9.16 Hours Total job cost: \$3,907

REVEGETATION WORK

	Revegetate Disturbed	Area				
Soward Ranch Pit	Permit A	Action: SI-03	3		Permit/Job#	: <u>M1988021</u>
Task #: 005	State: Col-	orado				None
Date: 9/8/2023 User: TJ1	County: Mir	neral		<u> </u>	Filename:	M021-005
Agency or orga	anization name: DRMS					
ERTILIZING						
Description		Units / Acre	Unit		/ Unit	Cost /Acre
8-32-16, 16-20-0		200.00	pound	\$0.90	0	\$179.34
				Tota	al Fertilizer Materials Cost/Acre	\$179.34
•	er (MEANS 32 01 90.13 01				~	\$41.82
		Total	Fertilizer A	Application	Cost/Acre	\$41.82
<u>TLLING</u>						
Dogovinti						
Description						Cost /Acre
	eep (MEANS 32 91 13.23 6	5100)				Cost /Acre \$112.82
	eep (MEANS 32 91 13.23 6	5100)	Т	otal Tilling	g Cost/Acre	
	eep (MEANS 32 91 13.23 6	5100)	Т	otal Tilling	g Cost/Acre	\$112.82
Disc harrowing, 6" de	eep (MEANS 32 91 13.23 6	5100)	Т	Rate – PLS LBS /	Seeds per SQ.	\$112.82
Disc harrowing, 6" de		5100)	Т	Rate – PLS LBS / Acre	Seeds per SQ. FT	\$112.82 \$112.82 Cost /Acre
Disc harrowing, 6" de EEDING Seed Mix Arizona Fescue - Red Mountain Brome - Br	londo	5100)	I	Rate – PLS LBS / Acre 0.50 12.50	Seeds per SQ. FT 5.74 20.09	\$112.82 \$112.82 Cost /Acre \$4.63 \$47.50
Disc harrowing, 6" de EEDING Seed Mix Arizona Fescue - Red	londo	5100)	T	Rate – PLS LBS / Acre	Seeds per SQ. FT	\$112.82 \$112.82 Cost /Acre

Application

Description
Drill Seeding (DRMS Survey Cost)

CIRCES Cost Estimating Software

Cost /Acre \$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}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$147.67

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 3.5 Cost /Acre: \$1,666.95 20%

Estimated Failure Rate: Cost /Acre*: \$1,666.95 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU

LCHING

Initial Job Cost: **\$5,834.33** Reseeding Job Cost: \$1,166.87 Total Job Cost: \$7,001 Job Hours: **0.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Ha	ul Reclamation I	Equipment To ar	nd From Site		
te: Soward Ranch Pit	Permi	t Action: SI-03		Permit/Job	#: <u>M1988021</u>
PROJECT IDENTIFICATI	<u>ION</u>				
Task #: 006 Date: 9/12/2023 User: TJ1		olorado Iineral		Abbreviation: _ Filename: _	None M021-006
Agency or organizatio	n name: DRMS	S			
Truck Tractor Desc		ERIC ON-HIGHV	Cost Data	Source: C $ACTOR, 6X4, \Gamma$	per day RG Data DIESEL POWERED,
Truck Trailer Desc	wintion:	CENEDIC EOL DI	400 HP (2ND HA ING GOOSENECH		Z EOLIIDMENT
Truck Trailer Desc	Tiption.		RAILER (25T, 50)		C EQUIFMENT
Cost Breakdown:			, ,		
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	_	
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05		
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85		
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52		
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53	<u></u>	
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95		

NON ROADABLE EQUIPMENT:

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
_	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							

Subtotals: \$520.46 \$258.24 \$500.00

ROADABLE EQUIPMENT:

Machine Description Total Cost/hr/unit	Fleet Size	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:

CREEDE

miles

40.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.30	0.30
Return Time (Hours):	0.30	0.30
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.60	0.60

JOB TIME AND COST

Total job cost: 3.20 Hours

Total job cost: \$2,508

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Sec	condary Mobiliza	ation for Reseedin	g		
ite: Soward Ranch Pit	Permi	t Action: SI-03		Permit/Jo	b#: <u>M1988021</u>
PROJECT IDENTIFICAT	<u>ION</u>				
Task #: 007 Date: 9/12/2023 User: TJ1		Colorado Mineral		oreviation: Filename:	None M021-007
Agency or organizatio	n name: DRMS	S			
EQUIPMENT TRANSPOR	ET RIG COST		Shift Cost Data So		1 per day CRG Data
Truck Tractor Desc	cription: GENI	ERIC ON-HIGHW			DIESEL POWERED,
Truck Trailer Desc	cription:		400 HP (2ND HAL NG GOOSENECK, I RAILER (25T, 50T, A	DROP DEC	~
Cost Breakdown:		1			
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05		
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85		
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52		
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53		
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95		

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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00

Subtotals: \$89.02 \$82.29 \$250.00

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:

CREEDE

12.00

miles

40.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.30	0.30
Return Time (Hours):	0.30	0.30
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.60	0.60

JOB TIME AND COST

Total job time:	3.20	Hours
Total job cost:	\$781	