

January 5, 2022

Mr. John P. Ary Fremont Paving & Redi-Mix, Inc. 839 MacKenzie Avenue Canon City, CO 81212

Re: Penrose Pit, Permit No. M-1987-131, Amendment Approval, Revision No. AM-3

Dear Mr. Ary:

On January 5, 2022 the Division of Reclamation, Mining and Safety approved the Amendment application submitted to the Division on January 14, 2021, addressing the following:

The amendment to the existing operation changes the total acreage to 1,023.5 with no more than 100 acres active at one time.

The terms of the Amendment No. 3 approved by the Division are hereby incorporated into Permit No. M-1987-131. All other conditions and requirements of Permit No. M-1987-131 remain in full force and effect.

The revised liability amount exceeds the performance bond currently held (see below). Please submit the additional bond. The revision will not be final until the bond is approved by the Division.

Bond Held:	\$320,000.00
Prior Liability:	\$320,000.00
Change in Liability:	\$66,242.00
Revised Liability (see attached estimate):	\$386,242.00

The Division is also approving your acreage release request (AR-2) which will reduce the permit and affected area acreage, but will not affect the bond amount. You will be notified of the approval of AR-2 under separate cover. If you have any questions, please contact me.

Sincerely,

Timothy A. Cazier, P.E. Environmental Protection Specialist

Enclosure: Bond estimate

ec: Sara Stevenson-Benn, DRMS DRMS file Jodi Schreiber, Fremont Paving

COST SUMMARY WORK

Task de	scription:	Cost Summary			
Site: Penrose Pit		Permit Action:	AM-03	Permit/Job	#: M1987131
<u>PROJE</u>	<u>CT IDENTIFIC</u>	CATION			
Task	: #: 000	State: Colorado		Abbreviation:	None
Da	te: 12/30/2021	County: Fremont		Filename:	M131-000
Us	er: TC1				

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill 1,000ft of 40-ft HW to 3H:1V	SCRAPER1	1	91.94	\$96,528
002	Place 3 inches overburden on 100 acres	SCRAPER1	1	41.72	\$43,118
003	Place 3 inches topsoil on 100 acres	SCRAPER1	1	36.91	\$36,470
004	Reveg - 100 acres	REVEGE	1	200.00	\$117,028
006	Mob/Demob Equipment	MOBILIZE	1	4.70	\$7,576
		375.27	\$300,720		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$6,075
Performance bond:	1.05	Total =	\$3,158
Job superintendent:	187.64	Total =	\$13,515
Profit:	10.00	Total =	\$30,072
		TOTAL O & P =	\$52,819
		CONTRACT AMOUNT (direct + $O \& P$) =	\$353,539

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 4.25 5.00		\$0 \$15,025 \$17,677
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$85,522
			400 C 0 10

TOTAL BOND AMOUNT (direct + indirect) = ____\$386,242

SCRAPER TEAM WORK

Site: Penrose Pit		Perm	it Action	: <u>AM-03</u>	P	ermit/Job#: <u>M1</u>	987131
PROJECT IDEN	FIFICATION						
Task #: 001	Si	tate: (Colorado		Abbre	viation: None	
	/2021 Cou		Fremont		Fil	ename: M131-	001
User: TC1							
Agency or	organization name:	DRM	IS				
HOURLY EQUIP	MENT			COSTS	Shift basis: <u>1 per</u>	<u>day</u>	
			Equipme	ent Description			
	-So	craper:	Cat 63				
		Dozer:	NA				
Suppo	ort Equipment -Load -Dump		NA Cat D8	T - 8SU			
Road Ma	intenance – Motor C		CAT 1				
	-Water	Truck:	Water '	Tanker, 5,000 Ga	ıl.		
Cost Breakdown:	Sarapar Warl	Toom		Support Fau	inmont	Mointonono	o Equipmont
Cost Breakdown:	Scraper Work Scraper	Doz	zer	Support Equ Load Area	Dump Area	Motor Grader	e Equipment Water Truc
%Utilization-machine:	100		NA	NA	100	25	
Ownership cost/hour:	\$147.77		NA	NA	\$97.46	\$85.80	\$33.4
Operating cost/hour:	\$141.36		NA	NA	\$97.63	\$15.10	\$10.4
%Utilization-ripper:	NA		NA	NA	NA	NA	Ν
Ripper own. cost/hour:	NA		NA	NA	\$0.00	\$0.00	\$0.0
Ripper op. cost/hour:	NA		NA	NA	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$30.90		NA	NA	\$41.30	\$28.56	\$0.0
Unit Subtotals:	\$320.03		NA	NA	\$236.39	\$129.46	\$43.9
Number of Units:	2		0	0	1	1	
Group Subtotals:	Work:	\$640	0.06	Support:	\$236.39	Maint:	\$173.40
Total work team cost							
Initial volume Loose volume	88,889		CCY LCY	Swell fac	tor: <u>1.124</u>		
	rce of estimated vol	ume.		rom 1 000 ft long	o 40 ft highwall (see 001.1 graphic)
	of estimated swell fa		Cat Han		5, 10 it ingit wan (/
HOURLY PROD	UCTION						
				Scraper E	Bowl (volume) Ba	<u>sis:</u>	
Material weight:	2,900 lbs/LCY			-	Volume: 24.00		СҮ
Material description:		Dry			Volume: <u>24.00</u> Volume: <u>34.00</u>		CY
Rated Payload: Payload Capacity:				Average			CY
	28.14 LCY			Adjusted (Capacity: 28.14	I	CY

<u>0.80</u> Minutes

<u>0.70</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time (min)
		(%)	(%)	(%)	(fpm)	(IIIII)
1	375.00	0.00	4.00	4.00	1667	0.40
2	250.00	-7.00	4.00	-3.00	2920	0.13
3	375.00	0.00	4.00	4.00	1667	-0.15

Haul Time: 0.38 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	375.00	0.00	4.00	4.00	2744	0.38
2	250.00	7.00	4.00	11.00	1060	-0.01
3	375.00	0.00	4.00	4.00	2744	0.33

Return Time:	0.70	minutes
Total Scraper team cycle time:	2.58	minutes
Adjusted for job conditions:	543.13	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	1,086.26	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	1,086.26	LCY/Hour
Unadjusted unit production/hour: <u>654.37</u> LCY/Hour Optimal Number of Scrapers per push dozer:		

Fleet size:	1	Team(s)	Total job time:	91.94	Hours
Unit cost:	\$0.966	/LCY	Total job cost:	\$96,528	_



Task # 001.1 Highwall Backfill Volume Estimate

Page 1 of 2

SCRAPER TEAM WORK

Site:	Penrose Pit		Perm	it Action	: <u>AM-03</u>	P	ermit/Job#: <u>M1</u>	987131
PR	OJECT IDENT	IFICATION						
	Task #: 002 Date: 10/12/2			Colorado Fremont			viation: None ename: M131-	002
	User: TC1	2021 C0	unty					002
	Agency or o	organization name	: DRM	IS				
HC	OURLY EQUIP	MENT_			COSTS	Shift basis: <u>1 per</u>	<u>day</u>	
					ent Description			
			Scraper: -Dozer:	Cat 631 NA	IG			
	Suppor	t Equipment -Loa		NA				
			p Area:	CAT 1				
	Road Mai	ntenance –Motor -Water	Grader: Truck:	CAT 14 Water 7	4M Γanker, 5,000 Ga	તી.		
					i			
<u>Cos</u>	st Breakdown:	Scraper Wor Scraper	rk Team Doz	zer	Support Equ Load Area	ipment Dump Area	Maintenanc Motor Grader	e Equipment Water Truc
%Util	ization-machine:	100		NA	NA	100	100	
Own	ership cost/hour:	\$147.77		NA	NA	\$85.80	\$85.80	\$33.4
-	erating cost/hour:	\$141.36		NA	NA	\$60.40	\$60.40	\$10.4
	Itilization-ripper:	NA		NA	NA	NA	NA	N
	r own. cost/hour:	NA		NA	NA	\$0.00	\$0.00	\$0.0
	per op. cost/hour:	NA		NA	NA	\$0.00	\$0.00	\$0.0
Op	berator cost/hour:	\$30.90		NA	NA	\$28.56	\$28.56	\$0.0
	Unit Subtotals:	\$320.03		NA	NA	\$174.76	\$174.76	\$43.9
	Number of Units: Group Subtotals:	2 Work:	\$640	0	0 Support:	1 \$174.76	1 Maint:	\$218.70
	al work team cost/		JO4 (.00	Support:	\$174.70	Maint.	\$218.70
	ATERIAL QUA							
1011	Initial volume:	40,333		CCY	Swell fac	tor: 1.124		
	Loose volume:	40,555 45,318		LCY	Swell lac	1.124		
	Sour	ce of estimated vo	olume:	3 inches	over 100 acres =	= 40,333 CY		
	Source o	f estimated swell	factor:	Cat Han	dbook			
HC	OURLY PRODU	UCTION						
					Scraper E	Bowl (volume) Ba	<u>sis:</u>	
	Material weight:	2,900 lbs/LCY				Volume: 24.00		CY
Ma	terial description: Rated Payload:	Sand and gravel 81,600 pounds	- Dry		Heaped Average	Volume: 34.00 Volume: 29.00		.CY .CY
	Payload Capacity:	28.14 LCY			Average Adjusted (

0.80 Minutes

<u>0.70</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity	Travel Time
		(%)	(%)	(%)	(fpm)	(min)
1	375.00	0.00	4.00	4.00	1667	0.40
2	250.00	-7.00	4.00	-3.00	2920	0.13
3	375.00	0.00	4.00	4.00	1667	-0.15

Haul Time: 0.38 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	375.00	0.00	4.00	4.00	2744	0.38
2	250.00	7.00	4.00	11.00	1060	-0.01
3	375.00	0.00	4.00	4.00	2744	0.33

Return Time:	0.70	minutes
Total Scraper team cycle time:	2.58	minutes
Adjusted for job conditions:	543.13	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	1,086.26	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	1,086.26	LCY/Hour
Unadjusted unit production/hour: <u>654.37</u> LCY/Hour Optimal Number of Scrapers per push dozer:		

Fleet size:	1	Team(s)	Total job time:	41.72	Hours
Unit cost:	\$0.951	/LCY	Total job cost:	\$43,118	

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SCRAPER TEAM WORK

Site: Penrose Pit		Permi	it Action:	AM-03	P	ermit/Job#: <u>M1</u>	987131
DDO IECT IDENT	TELCATION						
PROJECT IDENT	<u>IFICATION</u>						
Task #: 003	St	ate: 0	Colorado		Abbrev	viation: None	
Date: $10/13/2$	2021 Cou	nty: <u>F</u>	Fremont		Fil	ename: M131-	003
User: TC1							
Agency or o	rganization name:	DRM	S				
HOURLY EQUIP	MENT			COSTS	Shift basis: 1 per	dav	
					<u></u>	<u>aaj</u>	
	Sc	raper:	Equipme Cat 631	nt Description			
		Dozer:	NA	0			
Suppor	t Equipment -Load		NA				
	-Dump ntenance –Motor G		CAT 14				
Koad Mai	-Water		CAT 14 Water T	anker, 5,000 Ga	1.		
Cost Breakdown:	Scraper Work			Support Equi	<u>.</u>		e Equipment
	Scraper	Doz	er	Load Area	Dump Area	Motor Grader	Water Truc
%Utilization-machine:	100		NA	NA	100	25	2
Ownership cost/hour:	\$147.77		NA	NA	\$85.80	\$85.80	\$33.4
Operating cost/hour:	\$141.36		NA	NA	\$60.40	\$15.10	\$10.4
%Utilization-ripper:	NA		NA	NA	NA	NA	N
Ripper own. cost/hour:	NA		NA	NA	\$0.00	\$0.00	\$0.0
Ripper op. cost/hour:	NA		NA	NA	\$0.00	\$0.00	\$0.0
Operator cost/hour:	\$30.90		NA	NA	\$28.56	\$28.56	\$0.0
Unit Subtotals:	\$320.03		NA	NA	\$174.76	\$129.46	\$43.
Number of Units:	2		0	0	1	1	
Group Subtotals:	Work:	\$640	.06	Support:	\$174.76	Maint:	\$173.40
Total work team cost/	hour: \$988.22						
<u>MATERIAL QUA</u>	NTITIES						
Initial volume:	40,333		CCY	Swell fact	tor: <u>1.429</u>		
Loose volume:	57,620		LCY				
	ce of estimated vol			over 100 acres =	40,333 CY		
Source o	f estimated swell fa	ctor:	Cat Hand	lbook			
HOURLY PRODU	ICTION						
<u>HOURI I KODU</u>				Coremon D	owl (volume) D-	oie.	
				-	owl (volume) Ba		~~~
Material weight:	1,600 lbs/LCY				Volume: <u>24.00</u> Volume: <u>34.00</u>		CY CY
Material description: Rated Payload:	Top Soil 81,600 pounds			Heaped Average			CY
				Average	VOIDINE. ZAUD		

<u>0.80</u> Minutes

<u>0.70</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5200 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	375.00	0.00	4.00	4.00	1667	0.34
2	250.00	-7.00	4.00	-3.00	2920	0.13
3	375.00	0.00	4.00	4.00	1667	-0.82

Haul Time: -0.35 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	375.00	0.00	4.00	4.00	2744	0.38
2	250.00	7.00	4.00	11.00	1060	-0.01
3	375.00	0.00	4.00	4.00	2744	0.33

Return Time:	0.70	minutes
Total Scraper team cycle time:	1.85	minutes
Adjusted for job conditions:	780.65	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	1,561.30	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	1,561.30	LCY/Hour
Unadjusted unit production/hour: 940.54 LCY/Hour Optimal Number of Scrapers per push dozer:		

Fleet size:	1	Team(s)	Total job time:	36.91	Hours
Unit cost:	\$0.633	/LCY	Total job cost:	\$36,470	_

REVEGETATION WORK

Task description: Image: Figure 1 te: Penrose Pit		Reveg - 100 acres Permit Action:	Permit Action: <u>AM-03</u>		Permit/Job#: M1987131		
PROJECT	IDENTIFIC	ATION					
Task #:	004	State: Colorado		Abbreviation:	None		
Date:	10/13/2021	County: Fremont		Filename:	M131-004		
User:	TC1						

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
Chisel plowing {DMG}	\$96.50
Total Tilling Cost/Acre	\$96.50

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Little Bluestem - Pastura	0.70	4.18	\$9.44
Sideoats Grama - Vaughn	0.90	2.95	\$7.54
Pubescent Wheatgrass - Luna	2.80	5.79	\$9.52
Streambank Wheatgrass - Sodar	2.20	7.17	\$12.54
Tall Wheatgrass - Jose	2.00	3.63	\$6.75
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Totals Seed Mix	11.80	31.80	\$66.59

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$614.04

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$71.57
	Total Mulch Application Cost/Acre	\$71.57

NURSERY STOCK PLANTING

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

No. of Acres:	100	Cost /Acre:	\$1,080.70
Estimated Failure Rate:	30%	Cost /Acre*:	\$298.59
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$108,070.00
Reseeding Job Cost:	\$8,957.70
Total Job Cost:	\$117,028
Job Hours:	200.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descript	ion: <u>Mo</u>	b/Demob Equipn	nent				
e: Penrose P	it	Permit	Action: <u>AM-0</u>	3		Permit/Job#: <u>M</u>	1987131
PROJECT I	DENTIFICATI	ON					
Task #:	006	State: Co	olorado		Abbre	eviation: None	
Date: User:	12/30/2021 TC1	County: Fr	emont		Fi	ilename: M131	-006
Ager	ncy or organization	n name: DRMS					
EQUIPMEN	T TRANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	ıy
					Cost Data Sou	L	
T		· · · · · · · · · · · · · · · · · · ·					DOWEDED
1	ruck Tractor Desc	cription: GENE	RIC ON-HIGH			DR, 6X4, DIESEI	L POWERED,
_					(2ND HALF,		
ſ	Fruck Trailer Desc	cription: G				ROP DECK EQU	IPMENT
			Г	RAILER	(25T, 50T, Al	ND 100T)	
C (D 11							
Cost Breakdow	<u>vn:</u>						
Available Ri	ig Capacities	0-25 Tons	26-50 Tons	51-	+ Tons		
Owner	ship Cost/Hour:	\$21.28	\$37.94	\$	47.67		
Opera	ating Cost/Hour:	\$26.55	\$50.48	\$	56.21		
	rator Cost/Hour:	\$20.54	\$20.54		20.54		
	elper Cost/Hour:	\$0.00	\$23.53		23.53		
	Unit Cost/Hour:	\$68.37	\$132.49		47.95		
Total	Unit Cost/Hour.	\$08.57	\$132.49	φı	47.75		
NON ROAD	ABLE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat 631G	52.50	\$147.77	\$147.95	2	\$591.44	\$295.90	\$500.00
Cat D8T - 8SU		\$112.65	\$147.95	1	\$260.60	\$147.95	\$250.00
CAT 14M	23.57	\$85.80	\$68.37	1	\$154.17	\$68.37	\$250.00
Drill/Broadcas		\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Seeder with		<i><i><i>40</i></i></i>	+00.07	-	¢.000	+00.07	<i>q</i>2000
Tractor							
Water Tanker,	15.00	\$33.45	\$68.37	1	\$101.82	\$68.37	\$250.00
5,000 Gal.				-	+		+

Subtotals: \$1,184.38 \$648.96 \$1,500.00

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:	COLORADO SPRINGS 37.00 40.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$7,576.06	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.93	0.93
Return Time (Hours):	0.93	0.93
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.35	1.85

JOB TIME AND COST

Total job time: **4.70** Hours

Total job cost: \$7,576