

1313 Sherman Street, Room 215 Denver, Colorado 80203

July 31, 2015

Frank Leone, Jr. Leone Sand and Gravel, LLC 2400 E. Main St. Trinidad, CO 81082

Re: Leone Gravel Pit #2, Permit No. M-2006-085, Amendment Approval, Revision No. AM-01

Mr. Leone, Jr.:

On July 31, 2015 the Division of Reclamation, Mining and Safety (Division) approved your amendment application submitted to the Division on April 30, 2015, addressing the following:

Add 327.50 acres to existing permit area for a total permit area of 507.50 acres.

This amendment also changes the maximum allowed disturbed acreage at any time from 20 acres to 60 acres.

The terms of the Amendment No. 1 approved by the Division are hereby incorporated into Permit No. M-2006-085. All other conditions and requirements of Permit No. M-2006-085 remain in full force and effect.

The estimated liability amount of \$87,509.00 exceeds the \$57,664.00 performance bond currently held. If you have not already done so, please submit additional bond in the amount of \$29,845.00. The revision will not be final until the bond is approved by the Division.

Any questions regarding submitting the financial warranty should be directed to Barbara Coria. You can contact her by telephone at 303-866-3567, extension 8148, or by email at barbara.coria@state.co.us.

If you have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303-866-3567, extension 8129, or by email at amy.eschberger@state.co.us.

Sincerely,

any Exchberger

Amy Eschberger Environmental Protection Specialist



Frank Leone, Jr. July 31, 2015 Page **2** of **2**

Enclosure(s): Bond estimate for AM-01

CC: Steve O'Brian

Environment, Inc.

7985 Vance Dr., #205A Arvada, CO 80003

Wally Erickson, DRMS



COST SUMMARY WORK

: Leone G	ravel Pit #2		Permit Action:	AM-01 2015 Permit/3	Job#: <u>M2006085</u>
PROJECT	T IDENTIFICA	TION			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	7/20/2015	County:	Las Animas	Filename:	M085-000
User:	AME				

TASK LIST (DIRECT COSTS)

Tools		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Cut/fill highwall from 0.5H:1V to 3H:1V slope	DOZER	1	6.12	\$1,278.00
002	Rip processing/stockpiling area, 16.85 ac	RIPPER	1	24.52	\$5,462.00
003	Replace topsoil on 32.05 ac, 6 in depth	SCRAPER1	1	62.52	\$17,998.00
004	Revegetate 32.05 ac to rangeland	REVEGE	1	96.15	\$40,761.00
005	Reseed 23.85 acres	REVEGE	1	71.55	\$4,002.00
006	Mobilization/Demobilization	MOBILIZE	1	4.58	\$3,786.00
		SUBTO	<u>)TALS:</u>	265.44	\$73,287

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02% Total = \$1,480.40 Performance bond: 1.05% Total = \$769.51 Job superintendent: 0.00 hrs Total = \$0.00 Profit: 10.00% Total = \$7,328.70

TOTAL O & P = $\frac{\$9,578.61}{\$82,865.61}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00 Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 5.00% Total = 500.00 \$0.00 \$0.00 \$0.00 \$0.00

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$14,221.89

TOTAL BOND AMOUNT (direct + indirect) = \$87,508.89

BULLDOZER WORK

Task descr	ription:	Cut/fi	ll highwall	from 0.5H:	1V to 3H:1V slope		
: Leone (Gravel Pit #2	2	Per	mit Action:	AM-01 2015	Permit/Job#:	M2006085
PROJEC	T IDENTI	FICATIO	<u>N</u>				
Task #:	001		State:	Colorado		Abbreviation:	None
Date:	7/20/201	5	County:	Las Anima	as	Filename:	M085-001
User:	AME						
Α	gency or or	ganization r	name:DF	RMS			
HOURL	Y EQUIPM	MENT CO	ST				
Basic M	Iachine: (Cat D8T - 8	 SU				
		310			<u>—</u>		
		Semi-Unive	rsal				
		NΑ		-			
Shif	ft Basis: 1	per day			_		
Data		CRG)		-			
					<u>—</u>		
Cost Break	<u>cdown</u> :						
0 1			Φ.60. 67		<u>Utilization %</u>		
	ip Cost/Hou		\$62.67		NA 100		
	ng Cost/Hou		\$108.22	!	100		
	p. Cost/Hou	-	\$0.00		0		
Operato	or Cost/Hou	r :	\$38.01		NA		
Initial V	olume: 2,	912					
		250					
Loose ve	olume: 3,	640 LCY		_			
C		1	0		000 6 1		
	estimated vo		Cat Hand	: 15 ft H x 1,	000 π L		
Source of 6	estimated sw	en factor:	_ Cat Hand	DOOK			
HOURL	Y PRODU	<u>CTION</u>					
Average p	ush distance:	,	60 feet				
Unadjusted	d hourly prod	duction:	1,246.9 LC	Y/hr			
Materials of	consistency of	lescription:	Compa	cted fill or e	mbankment 0.9		
Average n	ush gradient:	: -5 %					
Average si		5,900 1	feet				
Tiverage si	te arritade.	3,7001	1001				
Material w	eight:	2,650 1	bs/LCY				
Weight des	scription:	Decom	nposed rock	- 25% Rock	, 75% Earth		
Job Condit	tion Correcti				Source		
	Operato			.750	(AVG.)		
M	Iaterial consi			.900	(CAT HB))		
	Dozing r			.100	(50% SL)		
		sibility:		.000	(AVG.)		
	Ioh effi	iciency:	0	830	(1 SHIFT/DA	Y)	

Spoil pile:

0.800

(FND-RF)

Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4772

Adjusted unit production: 595.02 LCY/hr
Adjusted fleet production: 595.02 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.351/LCY

Total job time: 6.12 Hours
Total job cost: \$1,278

BULLDOZER RIPPING WORK

Task description:	Rip p	processing/stockpiling a	rea, 16.85 ac		
Site: Leone Gravel	Pit #2	Permit Action:	AM-01 2015	Permit/Job#:	M2006085
PROJECT IDE	ENTIFICATION ENTIF	<u>ON</u>			
Task #: 002	2	State: Colorado		Abbreviation:	None
	0/2015	County: Las Anim	as	Filename:	M085-002
User: AM	<u>IE</u>				
Agency	or organization	name: DRMS			
<u>HOURLY EQU</u>	UIPMENT CO	<u>OST</u>			
		D8T - 8SU			310
Ripper Atta	achment: 3-Sh	nank Ripper			per day
				Data Source: (0	CRG)
Cost Breakdown:				TT: 11 0/	
	Ownership Co	et/Hour: \$60	9.05	Utilization % NA	
	Operating Co		08.22	100	
Ripp	per Operating Co		'.46	100	
	Operator Co		8.01	NA	
	Total Unit Co	st/Hour: \$22	22.73		
	Total Fleet Co	st/Hour: \$22	22.73		
MATERIAL Q	<u>UANTITIES</u>	Sel	ected estimating n	nethod: Area	
Alternate Method	ls:		2		
nic: NA		Bank Volume:	NA	ВСҮ	NA
rea: 16.85	acres	Rip Depth (ft):	1.00	Volume: 27,185	BCY or
	Course of estim		ton marridad in Ada		01
		iated quantity: Opera	tor provided in Ac	lequacy Review Response	-01
HOURLY PRO	<u>DDUCTION</u>				
Seismic:	_				
	S	eismic Velocity:	NA	feet/second	
Area:					
		e Ripping Depth:	2.56	mph	
		Ripping Width:	7.08	degrees	
		Ripping Length: ge Dozer Speed:	600.00	feet	
		Maneuver Time:	88.00 0.25	feet feet	
	_	ion per unit area:	0.828	acres/hour	
Job Condition Co	rrection Factors				
		Unit Production:	0.828	Acres/hr	
	•	Site Altitude:	5,900	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
	Adjusted l	Hourly Unit Production:	0.69	Acres/hr	
	•	Hourly Fleet Production:		Acres/hr	
JOB TIME AN	ID COST				
Fleet size:	1	Grader(s)	Total job time:	24.52	Hours
				\$5,462	

SCRAPER TEAM WORK

Task # 003

Site: Leone Gravel Pit	#2	Perm	it Action:	AM-01 2015	р	ermit/Job#:	M20066	085
Deone Graver in	112	1 CIIII	it / iction.	7111 01 2015		crime 300m.	112000	303
PROJECT IDEN	<u> </u>							
Task #: 003		State:	Colorado		Ahh	reviation:	None	
Date: $\frac{7/20}{20}$		_	Las Anim	as		Filename:	M085-00	03
User: AME						-		
Agency or o	organization name	DRN	4S					
HOURLY EQUIP	PMENT			COSTS	hift basis: 1 per	day_		
			Equipme	ent Description				
	-2	Scraper:	Cat 627	'G				
		-Dozer:	NA					
Suppo	rt Equipment -Loa	d Area:	NA NA					
Road Ma	intenance –Motor		NA NA					
Roud Wil		Truck:	NA					
Cost Breakdown:	Scraper Wo		ozer	Support Equipole Load Area	pment Dump Area	Mair Motor		Equipment Water Truck
	Scraper				-			
%Utilization-machine:	100	N	ΙA	NA	NA	N	A	NA
Ownership cost/hour:	\$69.99	N	ΙA	NA	NA	N	A	NA
Operating cost/hour:	\$184.31	N	ΙA	NA	NA	N	A	NA
Ripper op. cost/hour:	NA	N	ΙA	NA	NA	N		NA
Operator cost/hour:	\$33.56	N	IA	NA	NA	N	A	NA
Unit Subtotals:	\$287.87	N	ΙA	NA	NA	N	A	NA
Number of Units:	1		0	0	0	()	0
Group Subtotals:	Work:	\$28	7.87	Support:	\$0.00		Maint:	\$0.00
Total work team cost MATERIAL QUA								
Initial volume:	21,280		CCY	Swell fact	tor: 1.215			
Loose volume:	25,855		LCY	2 611 1416				
Sou	rce of estimated vo	oluma:	Operator	provided in Ade	anacy Paviaw I	Pasnonsa ()1		
	of estimated swell	-	Cat Hand		quacy Review I	csponse-or	-	
		_						
HOURLY PROD	<u>UCTION</u>							
				Scraper B	owl (volume) B	asis:		
Material weight:	1,600 lbs/LCY			Struck	Volume: 15.7	0	LC	Y
Material description:	Top Soil				Volume: 22.0		LC	
Rated Payload:	52,800 pounds			Average	Volume: 18.8	5	LC	Y
Payload Capacity:	33.00 LCY			Adjusted C	Capacity: 18.8	5	LC	Y

Cycle Time:

 $\begin{array}{lll} \text{Scraper Loading Time:} & \underline{0.70} \text{ Minutes} \\ \text{Maneuver and Spread Time:} & \underline{0.60} \text{ Minutes} \\ \end{array}$

<u>Job Condition Correction:</u> Site Altitude: 5900 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	3.00	3.00	6.00	1855	0.57

Haul Time: **0.57** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	-3.00	3.00	0.00	2921	0.40

Return Time: 0.40 minutes Total Scraper team cycle time: 2.27 minutes Adjusted for job conditions: 413.54 LCY/Hour Selected Number of Scrapers: 1 Scraper(s) Adjusted single scraper team (unit) hourly production: 413.54 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: LCY/Hour 413.54

Unadjusted unit production/hour:	498.24	LCY/Hou
Optimal Number of Scrapers per push dozer:		

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	62.52	Hours
Unit cost:	\$0.696	/LCY	Total job cost:	\$17,998	

REVEGETATION WORK

Task description: Revegetate 32.05 ac to rangeland

Site: Leone Gravel Pit #2 Permit Action: AM-01 2015 Permit/Job#: M2006085

PROJECT IDENTIFICATION

Task #:004State:ColoradoAbbreviation:NoneDate:7/20/2015County:Las AnimasFilename:M085-004

User: AME

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	3.00	pound	\$0.36	\$1.08
Potassium nitrate, 13-46-0	200.00	pound	\$1.25	\$249.20
Superphosphate, 0-20-0 with 12% S	100.00	pound	\$0.23	\$23.20
			Total Fertilizer Materials Cost/Acre	\$273.48

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.30	4.90	\$3.26
Indian Ricegrass - Paloma	1.80	5.83	\$15.68
Little Bluestem - Pastura	1.10	6.57	\$17.39
Sideoats Grama - El Reno	1.80	5.91	\$20.23
Western Wheatgrass - Arriba	4.80	12.12	\$17.66
Needlegrass, Green - Lodorm	1.00	4.16	\$5.39
Totals Seed Mix	10.80	39.47	\$79.61

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: $\frac{32.05}{50\%}$ Cost /Acre: \$1,187.90

Cost /Acre*: \$167.81

*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$38,072.20 Reseeding Job Cost: \$2,689.16 Total Job Cost: **\$40,761**

Job Hours: **96.15**

REVEGETATION WORK

Task description:	Reseed 23.85 acres				
Leone Gravel Pit #2	Permit Ac	ction: AM	-01 2015	Permit/Job#	H: M2006085
PROJECT IDENTIFI	CATION				
Task #: 005		orado		Abbreviation:	None
Date: 7/20/2015	County: Las	Animas		Filename:	M085-005
User: AME	,				
Agency or organ	nization name: DRMS				
EEDDH IZING					
<u>FERTILIZING</u>					
Materials					
Description		Units /	Unit	Cost / Unit	Cost /Acre
Description		Acre	Omt	Cost / Cint	Cost /IIcic
				\$	\$
				Total Fertilizer Materials Cost/Acre	\$0.00
Application					
Application					Cost /Acre
Application Description					Cost /Acre
					Cost /Acre

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.30	4.90	\$3.26
Indian Ricegrass - Paloma	1.80	5.83	\$15.68
Little Bluestem - Pastura	1.10	6.57	\$17.39
Sideoats Grama - El Reno	1.80	5.91	\$20.23
Western Wheatgrass - Arriba	4.80	12.12	\$17.66
Needlegrass, Green - Lodorm	1.00	4.16	\$5.39
Totals Seed Mix	10.80	39.47	\$79.61

Application

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

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 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:23.85Cost/Acres:\$167.81Estimated Failure Rate:50%Cost/Acre*:\$0.00

*Selected Replanting Work Items: NONE

Initial Job Cost: \$4,002.27

Reseeding Job Cost: \$0.00

Total Job Cost: Job Hours: 71.55

EQUIPMENT MOBILIZATION/DEMOBILIZATION

7	Γask description:	Mobilization/I	Demobilizatio	n			
Site:	Leone Gravel Pit #2	F	Permit Action:	AM-01 20	015	Permit/Job#:	M2006085
<u>]</u>	PROJECT IDENTIFIC	CATION					
	Task #: 006	State	e: Colorado		1	Abbreviation:	None
	Date: 7/20/2015	County	: Las Anim	ias		Filename:	M085-006
	User: AME						
	Agency or organiz	zation name:	DRMS				
1	EQUIPMENT TRANS	PORT RIG C	<u>OST</u>				
_					Sh	ift basis: 1	per day
					Cost Data		RG Data
	Truck Tractor	Description:	GENERIC O				DIESEL POWERED,
		–	GENTEDIG E		400 HP (2ND HA		WD1 (E) IE ED 1 W ED
	Truck Trailer	Description:	GENERIC FO	OLDING GO		-	JIPMENT TRAILER
		_			(25T, 50T, AN	D 1001)	
<u>(</u>	Cost Breakdown:						
	Available Rig Capacities	0-25 To	ons 26-5	50 Tons	51+ Tons		
	Ownership Cost/Ho	ur: \$16.6	3 \$1	18.37	\$22.33		
	Operating Cost/Ho	ur: \$44.3	8 \$4	46.13	\$50.07		
-	Operator Cost/Ho	ur: \$27.6	5 \$2	27.66	\$27.66		

NON ROADABLE EQUIPMENT:

Helper Cost/Hour:

Total Unit Cost/Hour:

\$0.00

\$88.67

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 D8T - 8SU	53.08	\$69.05	\$125.45	1	\$194.50	\$125.45	\$250.00
Cat 627G	41.80	\$69.99	\$117.55	1	\$187.54	\$117.55	\$250.00
Drill/Broadcast	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Seeder with Tractor							

\$25.39

\$117.55

\$25.39

\$125.45

Subtotals: \$510.30 \$331.67 \$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: TRINIDAD

Total one-way travel distance: 8.00 miles

Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$3,786.14

\$0.00

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.15	0.15
Return Time (Hours):	0.15	0.15
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.29	0.29

JOB TIME AND COST

Total job time:	4.58	Hours
Total job cost:	\$3,786	