District 1 1625 N. Prench Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rı

· State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004



Oil Conservation Division 1220 South St. Francis Dr. Santa, Fe, NM 87505

☐ AMENDED REPORT

1000 Rio Brazos Road, Aztec, NM 87410	
District IV	
1220 S. St. Francis Dr , Santa Fe, NM 87505	
•	
APPLICATION FOR PER	RMIT TO

APPI	JCATI	ON FOR	PERMIT	TO DR	ILL. RE-I	ENTER	. DEEI	PEI	N. PLUGB	BACK.	OR AD	D A ZONE	
		t	Operator Name REEF EXPLORA	and Address		² OGRID Number 246083							
			08 WEST WALI MIDLAND, T	L, SUITE 700)				30 - 015	30 – 015 - 3 5 6 7 4			
Prope	rty Code				Property N	Vame					6 Well No. 002		
<u> </u>									,				
	LIVI		roposed Pool 1 GE; DELAWAR	E, SE					¹⁰ F	Proposed P	Pool 2		
					⁷ Surface	Location	n				:		
UL or lot no	Section	Township	Range	Lot Idn			North/South I	ine	Feet from the	Eas	st/West line	County	
С	2	23S	31E	<u> </u>	660		NORTH		1980		WEST .	EDDY	
				1	n Hole Locat						· 1		
UL or lot no. C	Section 2	Township 23S	Range 31E	Lot Idn	Feet fro	1	North/South I NORTH	ine	Feet from the 1980	Eas	st/West line WEST	County EDDY	
				Add	itional We	ll Inforn	nation	•					
	Type Code N		¹² Well Type Coo O	le	13 Cable. R			1	⁴ Lease Type Code S	e	15 Grou	nd Level Elevation 3435'	
	lultiple NO		17 Proposed Dept 8700'	h	18 Form DELA\		,		19 Contractor TBO		, 2	⁰ Spud Date 06/15/07	
Depth to Grou	ındwater	950'			rom nearest fres	h water well	1		Distance		est surface wa	iter	
<u>Pit</u> Liner	Synthetic		nils thick Clay		00' or more dume:_2000	bbls	Drı	llıng	Method ⁻	1000' or	more		
Close	ed-Loop Sys	stem 🔲	· · · · · · · · · · · · · · · · · · ·				Fresh \	Vate	r 🛛 Brine 🕅	Diesel/O	ıl-based	Gas/Aır 🔲	
			21	Propose	d Casing a	nd Cem	ent Pro	gra	.m				
Hole S	ize	Casir	ng Size	Casing w	veight/foot	Setting Depth		Sacks o	Sacks of Cement		Estimated TOC		
17 ½	/ , , ,	13	3/8"	48#	H-40 C	700 980°		8	835		SURFACE		
12 ½	/	8.5	5/8"	32#	K-55	4500'		. 1270		SURFACE			
7.7/	3"	5_	1/5"	17#	L-80	8700'		750		4500'			
								_					
22 Describ	e the propo	sed program.	If this application	on is to DEE!	PEN or PLUG I	BACK, give	e the data of	on th	e present produc	ctive zone	and propose	d new productive	
DRL SAN AM PROGRAM. REQUIREMMAND EVALU	NDRES WI ABANDO ENTS A D JATION A	ELL TO ± 870 NMENT, IF N OOUBLE RAN T TD, THE DI	NECESSARY, W M SERIES 900 E	T TO SURF (VILL BE PRI BOP AND CI BE MADE A	ON 8 5/8" CSG EFORMED IN HOKE MANIF AS TO WHETI	. TEST AL ACCORDA OLD WILL HER OR NO	L SIGNIF ANCE W/F BE USEI OT TO RU	PRUI D FR IN P	DENT PRACTI OM THE 8 5/8' RODUCTION (CES AND CSG PO CSG. PRO	O REGULATO DINT TO TD.	QUATE LOGGING ORY AFTER LOGGING CSG WILL BE 5 ½"	
One			- C	£		م این	da := a			· 0	-1		
23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or					OIL CONSERVATION DIVISION						ON		
an (attached) alternative OCD-approved plan						Approved by: BRYAN G. ARRANT						,	
Printed name: GAYE HEARD									DISTRIC			IST	
Title AGEN	Γ					Approval	Da lUL	1	1 2007	Expirat	tion Date:	JUL 1 1 2008	
E-mail Addre	ss: oilrepo	rtsınc@oilrepo	ortsinc.com							•	4		
Date: 05/10/07 Phone: 505-393-2727						Conditions of Approval Attached						,	

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

1220 South St. Frances Dr. Santa Fe, NM 87505

□ AMENDED REPORT

DISTRICT LY
1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name STATE "2"	Well Number
OGRID No.	Operator Name REEF EXPLORATION, L	P. Elevation 3435'

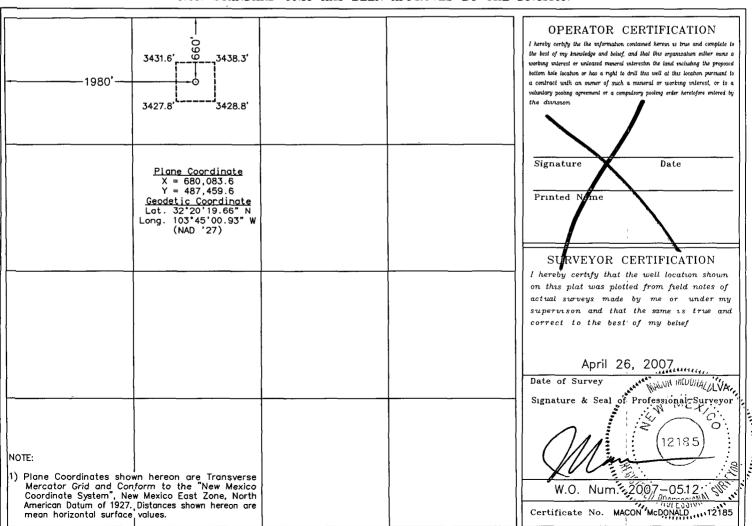
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
С	2	23 S	31 E		660	NORTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	r Infill Co	nsolidation (Code Or	ler No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT_III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Frances Dr. Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Appropriate District Office
State Lease - 4 Copies
Fee Lease - °

ARTESIA. NM
OCO. ARTESIA.

AMENDED DEDOOT

<u>ISTRICT IV</u> 220 S. St. Francis II	r., Santa Fe	, NM 87505	•						AMENDED	REPORT
		W			AND A	CREAC	E DEDICATIO			
API Number Pool Code Pool Name										
Property Code Property Name							ge; Delaware	SE Well Nun	her	
Property Co	ode					ATE "2			2	1061
OGRID No.				-		ator Nam			Elevation	מפ
				REEF	EXPL	ORATIO	ΟŇ, L.P.		343	5'
•		***************************************			Surfac	ce Loca	ation	-		
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
С	2	23 S	31 E		66	0	NORTH	1980.	WEST	EDDY
		1	Bottom	Hole Loc	eation I	f Diffe	rent From Sur	face	· · · · · · · · · · · · · · · · · · ·	1
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	m the	North/South line	Feet from the	East/West line	County
				1						
Dedicated Acres	Joint or	Infill C	onsolidation	Çode Or	der No.				L	1
40				,					ł	
1	980'	3431.6' G 3427.8' Plane Cc X = 68t Y = 48t Geodetic Lat. 32'22 Long. 103'		RD UNIT	HAS BE	BEN AP	PROVED BY THI	OPERAT I hereby certify the the a the best of my incustedge working interest or unless bottom hale location or had a continued with an own voluntary peoling agreement the divirsion Signature Gaye He Printed Name	Date ard	se and complete to ition either owns a uding the proposed conton pursuant to underest, or to a underest or to a underest of to underest of to underest or to underest or to underest or to underest or underest or underest
•								on this plat we actual surveys supervison an correct to the	that the well located as plotted from field made by me or all that the same is a best of my belief the control of the control	t notes of under my true and

NOTE:

1) Plane Coordinates shown hereon are Transverse
Mercator Grid and Conform to the "New Mexico
Coordinate System", New Mexico East Zone, North
American Datum of 1927, Distances shown hereon are
mean horizontal surface values.

W.O. Num. 2007-0512

Certificate No. MACON McDONALD "12185



NEW MEXICO ENERGY; MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division



May 21, 2007 U.S. Department of Energy P.O. Box 3090 Carlsbad, NM 88221-3090

Attn: Harold Johnson-NEPA Compliance Manager

Dear Harold or To Whom It May Concern

RE: Reef Exploration, L.P., application to drill the State "2" # 2 well:

Surface location to be in Unit C, of Section 2, Township 23 South, Range 31 East,

Legal location being: 660' FNL & 1980' FWL

Eddy County, New Mexico, NMPM.

An application to drill (APD) for the above noted well is enclosed for your review. The State "2" # 2 lies within 1 mile of the WIPP withdraw area. Per terms of the Joint Powers Agreement between the Energy Mineral and Natural Resources Department, the DOE and other agencies, this application is provided so that you may have the opportunity to develop and submit and comments thereon. The OCD is expected to approve this permit by June 25, 2007 unless an objection is received in writing.

Please call if you have any questions or concerns regarding this matter.

Respectfully yours,

Bryan G. Arrant NMOCD's District II Geologist Artesia, New Mexico 505-748-1283 ext. 103

Encl:

CC:

New Mexico Energy Minerals and Natural Resources Department, Anne Clark

-Coordinator of the N.M. Radioactive Waste Consultation Task Force. New Mexico State Land Office & Minerals Division, Joe Mraz-Geologist

Reef Exploration, L.P., Gaye Heard, Agent

Well file

J. W. MULLOY ASSOCIATES, INC.

Engineering & Consulting 508 West Wall, Suite 700 Midland, Texas 79701 Phone: (432) 687-0323 Fax: (432) 686-7224

JOHNNY MULLOY President

May 25, 2007

Mosaic Potash Carlsbad, Inc P.O. Box 71 Carlsbad, NM 88220

RE: Waivers

Attention: Mr. Dan Morehouse

Dear Sir:

As a representative of Reef Exploration, L.P. it is respectfully requested that waivers that would allow the drilling for Hydrocarbons in designated Potash areas be granted for the following:

SW/4 of NE/4 Sec 2, T-23-S, R-31-E E/2 of W/2 Sec 2, T-23-S, R-31-E

The well designation and exact location are as follows:

State "2" Well #1 1980 FNL & 1980 FEL #2 660 FNL & 1980 FWL #3 1980 FNL & 1980 FWL #4 1980 FSL & 1980 FWL

#5 660 FSL & 1980 FWL

Thank you for you corporation relating to these waivers.

Yours Very Truly,

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J. W. MULLOY ASSOCIATES, INC.

Engineering & Consulting

I, Dan Morehouse as representative for Mosaic Potash Carls and all objections to the drilling of the wells listed above the Exploration 1. P.	
Exploration, L.P. By:	Date:
Signed:	

Cc: Bryan Arrant



J. W. MULLOY ASSOCIATES, INC.

Engineering & Consulting 508 West Wall, Suite 700 Midland, Texas 79701 Phone: (432) 687-0323 Fax (432) 686-7224 Monin legal

MAY 2 9 2007

COLUMN 14, NAA

JOHNNY MULLOY President

May 25, 2007

State of New Mexico Oil Conservation Division 1310 W. Grand Avenue Artesia, New Mexico 88210

> RE: H₂S Contingency Plan Sec 1,2 & 12, T-23-S, R-31-E Sec 36 T-22-S, R-31-E Eddy County, New Mexico

Attention: Mr. Bryan Arrant

As a representative of Reef Exploration, L.P. (Ogrid # 246083) research has been conducted to determine if H₂S will be encountered while drilling the following wells:

State "2" Well #1 1980 FNL & 1980 FEL

#2 660 FNL & 1980 FWL

#3 1980 FNL & 1980 FWL

#4 1980 FSL & 1980 FWL

#5 660 FSL & 1980 FWL

It was determined that no H₂S would be encountered and therefore a contingency plan is not needed. This letter is being sent to you to satisfy the conditions of approval of the above requested permits.

If additional data is required, please contact the undersigned at 432-687-0323.

Yours Very Truly,

J.W. Mullov



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary



Mark E. Fesmire, P.E.
Director
Oil Conservation Division

May 23, 2007 New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87504-1148 Attn: Mr. Joe Mraz or To Whom It May Concern

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR:

Reef Exploration, L.P.

LEASE NAME:

State "2" # 2

LOCATION:

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

660' FNL & 1980' FWL

EDDY COUNTY, NM, NMPM

PROPOSED DEPTH: 8700'

Dear Mr. Joe Mraz or To Whom It May Concern,

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuit to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether or not this application is within an established Life-of Mine Reserve area filed with and approved by your office. If not, please advise whether it is within the buffer zone established by this order. Thank you for your assistance.

Sincerely,

Bryan G. Arrant
District II Geologist, Artesia NMOCD

In LMR
In Buffer Zone
Yes
No
Signature:

Date: 5/23/07



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

RE:

Mark E. Fesmire, P.E. Director

Oil Conservation Division

JUL - 5 2007

OCD-ARTESIA

May 23, 2007
Bureau of Land Management
620 East Green St.
Carlsbad, NM 88220-6292
Attn: Mr. Craig Cranston or To Whom It May Concern

OPERATOR:

Reef Exploration, L.P.

LEASE NAME:

State "2" # 2

LOCATION:

Sincerely,

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

660' FNL & 1980' FWL

EDDY COUNTY, NM, NMPM

APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

PROPOSED DEPTH: 8700'

Dear Mr. Cranston or To Whom It May Concern,

The application for permit to drill identified above has been filed with this office of the New Mexico Oil Conservation Division. Pursuit to the provisions of Oil Conservation Division Order R-111-P, please advise this office whether or not this application is within an established Life-of Mine Reserve area filed with and approved by your office. If not, please advise whether it is within the buffer zone established by this order.

Thank you for your assistance.

Bryan G. Arrant
District II Geologist, Artesia NMOCD

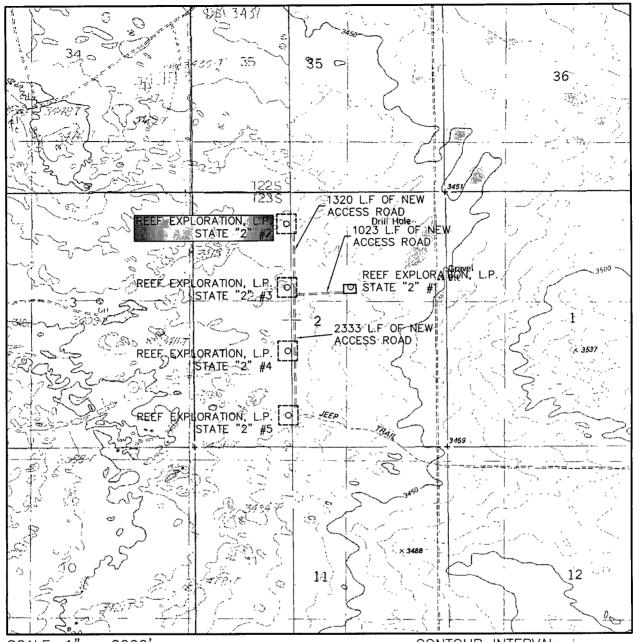
In LMP
Ves
No

In LMR Yes No X
In Buffer Zone Yes No X

Signature:

Date: 7-2-07

LOCATION VERIFICATION MAP



SCALE: 1" = 2000

CONTOUR INTERVAL: LOS MEDANOS - 10"

SEC. 2 TWP. 23-S RGE. 31-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 660' FNL & 1980' FWL ELEVATION 3435' OPERATOR REEF EXPLORATION, L.P. LEASE STATE "2"

U.S.G.S. TOPOGRAPHIC MAP

LOS MEDANOS

WEST

COMPANY

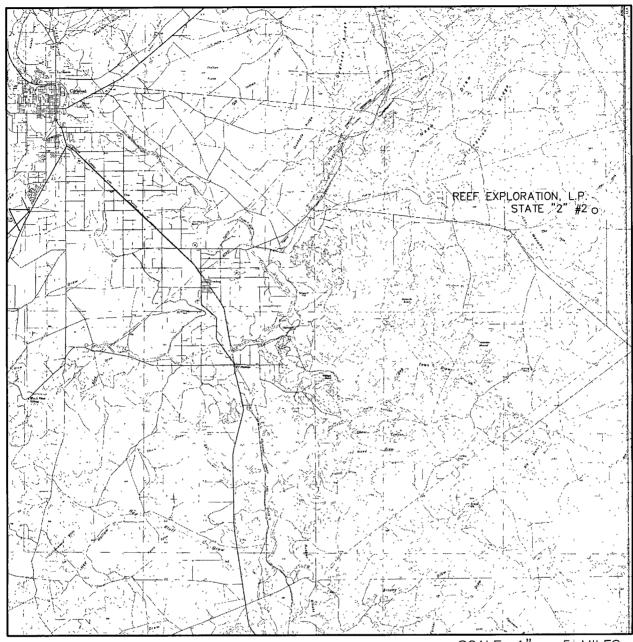
110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc.

(432) 687-0865 - (432) 687-0868 FAX

VICINITY MAP



SEC. 2 TWP. 23-S RGE. 31-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 660' FNL & 1980' FWL ELEVATION 3435' OPERATOR REEF EXPLORATION, L.P. LEASE STATE "2"



COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc. (432) 687–0865 – (432) 687–0868 FAX

