District I →625 N. Frerch Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM District III 1000 Rio Brazos Road, Aztec, NM 8 District IV

1220 S. St. Francis Dr., Santa Fe, NN

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Submit to appropriate District Office Month - year MAY 9 2007 OCD - ARTESIA, NM

Form C-101

May 27, 2004

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

APPL	ICATI	ON FO	R PERMIT	TO DI	RILL, RE-I	ENTER, 1	DEEPEN	I, PLUGBAC	CK, OR AI	DD A ZONE	
			Operator Name REEF EXPLOR	ATION, L.	P. '	,			² OGRID Numb 246083		
			508 WEST WAL MIDLAND,		700		•	30 – 015 -	3 C 6 76		
Property Code Property N						Name '2"				ell No. 004	
•	I IVA	NGSTON I	⁹ Proposed Pool 1 RIDGE; DELAWA	RE SEC				10 Propo	sed Pool 2		
	121 4 11	NODION	dbot, blenwi	ice, or (7 Surface	Location					
UL or lot no	Section 2	Township 23S	Range 31E	ge Lot Idn Feet fro		m the Nort	th/South line	Feet from the	East/West line WEST	County EDDY	
				sed Botto						2001	
UL or lot no.	Section	Township		Lot I		tion If Different From Surface		i i	East/West line	County	
K	^ 2	23S	31E	, 1	198		SOUTH	1980	WEST	EDDY	
11 Work	Type Code		12 Well Type Co		ditional We			Lease Type Code	15 Gr	ound Level Elevation	
	N		О		F	}		S		3414'	
	ultiple NO		¹⁷ Proposed Dep 8700'	oth	IN Fort DELA			Contractor TBO		²⁰ Spud Date 06/15/07	
Depth to Grou	ındwater	0501		1	e from nearest fres	h water well			nearest surface	water	
Pit Liner	Synthetic	950' \(\sum \) _12	_mıls thick Clay		Volume:_2000	bbls	Drilling l		0' or more		
Close	d-Loop Sys	stem 🔲				•	Fresh Water	🛛 Brine 🖾 Die	sel/Oil-based	Gas/Air 🗌 .	
			21	Propos	sed Casing a	nd Cemer	ıt Prograr	n ·	1.00		
Hole S	ıze	С	asing Size	Casing weight/foot		Setting Depth		Sacks of Cer	nent	Estimated TOC	
17 1/			3 3/8"	48# H-40 🕑		<u> </u>		835		SURFACE	
12 1/			8 5/8"	32# K-55		4500'		1270		SURFACE	
7.7/8	<u> </u>	-	5 1/2"	. 17	# L-80	8700'		750		4500'	
			m If this applicati					present productive	zone and propo	sed new productive	
DRL SAN AN PROGRAM. REQUIREMI AND EVALU	NDRES WE ABANDO ENTS A D JATION A	ELL TO'± NMENT, I OOUBLE F I' TD, THE	8700'. CIRC CM IF NECESSARY, ' XAM SERIES 900	T TO SURI WILL BE P BOP AND BE MAD	F ON 8 5/8" CSG PREFORMED IN CHOKE MANIF E AS TO WHETE	. TEST ALL : ACCORDAN OLD WILL B: HER OR NOT	SIGNIFICAN CE W/PRUD E USED FRO TO RUN PR	ENT PRACTICES OM THE 8 5/8" CS CODUCTION CSG.	AND REGULA G POINT TO T	EQUATE LOGGING LTORY D. AFTER LOGGING N CSG WILL BE 5 ½"	
G					اد د			· n/			
23 I hereby cer	rtify that the	e informat	Surfaw co	true and co	mplete to the	116 SCC	Ila ot	Plus T Gr			
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					ing pit will be		OIL C	ONSERVAT	ION DIVÍS	SION	
an (attached) alternative OCD-approved plan .						Approved by	/:	ENDS CANA			
Signature. Language Fallara								. ARRAN T II GEOL			
Printed name:		EARD				Title:	82 24	4 4 2003		JUL 1 1 2008	
Title: AGENT		rteine@oil	reportsinc.com (Approval Da	ite: UUL	A 1 1 1004 Ex	spiration Date:		
	•	ப்பாட்டுப்ப	·	303.2727		Conditions	f Approval At	toohed \square	1		
Date. 05/10/07 Phone: 505-393-2727					Conditions o	ı Approvat At	tached				

DISTRICT 1 1625 N. French Dr., Hobbs, NM 88240

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

1301 W. Grand Avenue, Artesia, NM 88216

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

OIL CONSERVATION DIVISION 1220 South St. Frances Dr. Santa Fe, NM 87505 Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Code Pool		
Property Code	Prop ST/	erty Name ATE "2"	Well Number 4	
OGRID No.	=	ator Name ORATION, L.P.	Elevation 3414'	

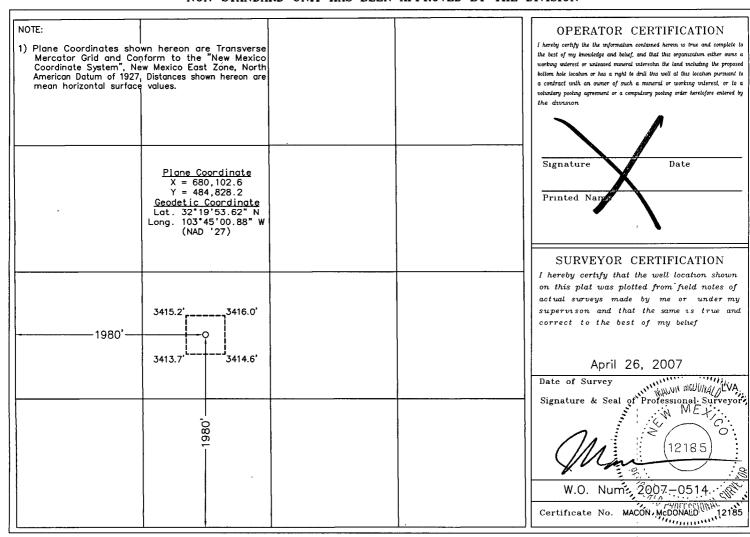
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	2	23 S	31 E		1980	SOUTH	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	Infill Co	nsolidation (Code Ore	der No.				<u> </u>

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 1 1625 N. French Dr., Hobbs, NM 88240

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

Sec. 1750

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Frances Dr Santa Fe, NM 87505

Month - Year MAY 1 6 2007 OCD - ARTESIA, NM

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96149	*****			
Property Code		erty Name	Well Number		
OGRID No.	<u>=</u>	or Name ORATION, L.P.	Elevation 3414'		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	2	23 S	31 E		1980	SOUTH	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 Infill Consolidation Code				Code Ore	der No.				
40								a.	

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

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.	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral unterestin the land including the proposed bottom hale location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division
Plane Coordinate X = 680,102.6 Y = 484,828.2 Geodetic Coordinate Lat. 32*19*53.62* N Long. 103*45*00.88* W (NAD '27)	Signature Date Gaye Heard Printed Name
3415.2' 3416.0' 3413.7' 3414.6'	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief April 26, 2007



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" #4 well:

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

Legal location being: 1980' FSL & 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" # 4 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:

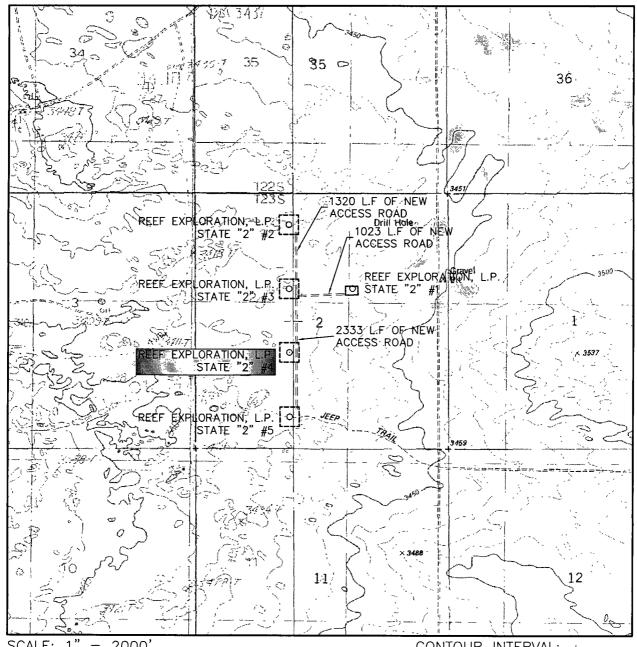
New Mexico Energy Minerals and Natural Resources Department, Anne Clark

-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

LOCATION VERIFICATION MAP



LOS MEDANOS

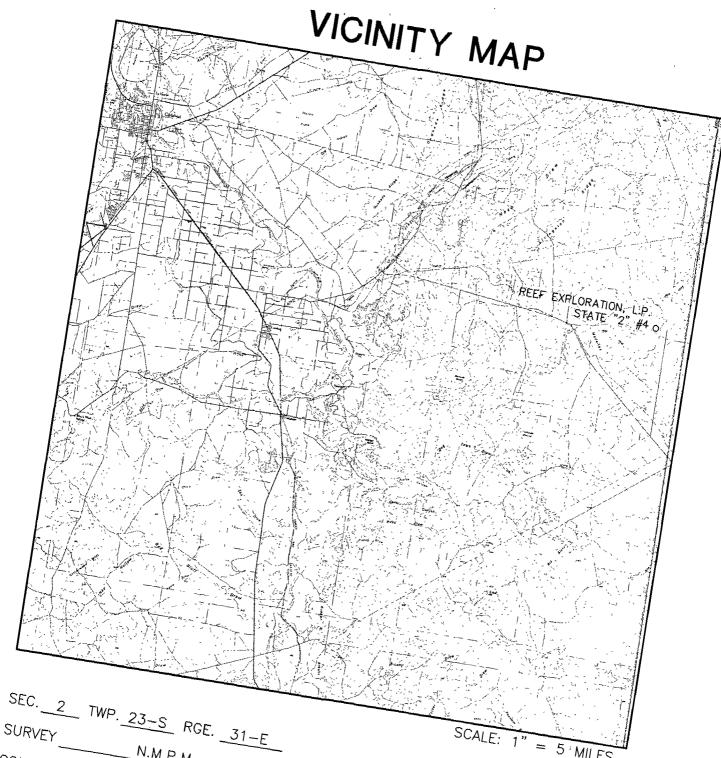
CONTOUR INTERVAL: LOS MEDANOS - 10',

SEC. 2	TWP. <u>23-S</u> RGE. <u>31-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTIC	N 1980' FSL & 1980' FWL
ELEVATION	3414'
OPERATOR	REEF EXPLORATION, L.P.
LEASE	STATE "2"
U.S.G.S. TO	POGRAPHIC MAP



WEST COMPANY

110 W. LOUISIANA, STE. 110 MIDLAND TEXAS, 79701 of Midland, Inc. (432) 687–0865 – (432) 687–0868 FAX



N.M.P.M. COUNTY EDDY DESCRIPTION 1980' FSL & 1980' FWL ELEVATION____ 3414' OPERATOR REEF EXPLORATION, L.P. LEASE _____STATE "2"



WEST

COMPANY

110 W. LOUISIANA, STE. 110

of Midland, Inc. (432) 687-0865 - (432) 687-0868 FAV



NEW MEXICO ENERGY, MINERALS and NATURAL RESQUECES DEPARTMENT

BILL RICHARDSON

2007 JUL 5 PM 3 04

Mark E. Fesmire, P.E.
Director

Oil Conservation Division

Governor

Joanna Prukop

Cabinet Secretary

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

JUL - 9 2007 OCD-ARTESIA

RE: A

APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR:

Reef Exploration, L.P.

LEASE NAME:

State "2", # 4

LOCATION:

Sincerely,

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

1980' FSL & 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.

Bryan G. Arrant District II Geologist,	Artesia NMOCD		532m
In LMR In Buffer Zone Comments:	Yes Yes	No	Jon 7-3-07 645 pm
Signature:	mi Early	·	Date: 7/3/07



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary



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

JUN 15 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

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

OPERATOR:

Reef Exploration, L.P.

LEASE NAME:

State "2" # 4

LOCATION:

ir all taraid

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

1980' FSL & 1980' FWL

EDDY COUNTY, NM, NMPM

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.

Sincerely,

Bryan G. Arrant	
District II Geologist, Artesia	NMOCD

In LMR
In Buffer Zone

Yes____

Yes

No *

Comments:

Signature: Kuj Wanta

Date: 6-/1-07

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,

ヺ.W. Mulloy

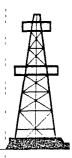
J. W. MULLOY ASSOCIATES, INC.

Engineering & Consulting

I, Dan Morehouse as representative for Mosaic Potash Carlsbad, Inc hereby waive any and all objections to the drilling of the wells listed above that will be operated by Reef 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



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,

1.W. Mullov

