District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III NM 87410 1000 Rio Brazos Roa District IV 1220 S. St. Francis Dr. Santa Fee NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr.

Submit to	appropriate District Office
Month - Year \	appropriate District Office
MARY 9 200/	AMENDED REPORT
CD - ARTESIA, NM	
CD - AKILUI /	

Form C-101

May 27, 2004

Santa Fe, NM 87505 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLÙGBAĆK, OR ADD A ZONE OGRID Number Operator Name and Address REEF EXPLORATION, L.P. 246083 508 WEST WALL, SUITE 700 MIDLAND, TX 79701 30 - 015Vell No. Property Name STATE "2" Property Code 10 Proposed Pool 2 Proposed Pool 1 LIVINGSTON RIDGE; DELAWARE, SE (Surface Location County UL or lot no. Township Lot Idn Feet from the North/South line Feet from the East/West line 660 SOUTH 1980 WEST EDDY 23S 31E ⁸ Proposed Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the East/West line UL or lot no Township County N 23S 31E 660 SOUTH 1980 WEST **EDDY** Additional Well Information Cable/Rotary Well Type Code Ground Level Elevation Work Type Code Lease Type Code R 34161 ⁶ Multiple Proposed Depth 8 Formation Spud Date Contractor DELAWARE 8700 TBO 06/15/07 NO Distance from nearest fresh water well Depth to Groundwater Distance from nearest surface water 1000' or more 1000' or more Drilling Method: Liner: Synthetic 🛛 Pit Volume: 2000 12 mils thick Pit: Closed-Loop System Fresh Water Brine Diesel/Oil-based Gas/Air Proposed Casing and Cement Program Casing weight/foot Setting Depth Sacks of Cement Estimated TOC Hole Size Casing Size 17 1/2" 13 3/8" 48# H-40 900' 835 SURFACE 12 1/4" 8 5/8" 32# K-55 4500' 1270 SURFACE 5 1/2" 7 7/8" 17# L-80 8700' 750 45002 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. DRL SAN ANDRES WELL TO ± 8700' CIRC CMT TO SURF ON 8 5/8" CSG. TEST ALL SIGNIFICANT SHOWS & EVALUATE W/ADEQUATE LOGGING PROGRAM. ABANDONMENT, IF NECESSARY, WILL BE PREFORMED IN ACCORDANCE W/PRUDENT PRACTICES AND REGULATORY REQUIREMENTS. A DOUBLE RAM SERIES 900 BOP AND CHOKE MANIFOLD WILL BE USED FROM THE 8 5/8" CSG POINT TO TD. AFTER LOGGING AND EVALUATION AT TD, THE DECISION WILL BE MADE AS TO WHETHER OR NOT TO RUN PRODUCTION CSG. PRODUCTION CSG WILL BE 5 1/2" AND WILL BE RUN AT TD. COMPLETION WILL BE FROM PERF'S IN 5 1/2" CSG IN THE DELAWARE FORMATION. ahuding section of Rustler asina 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 OIL CONSERVATION DIVISION constructed according to NMOCD guidelines ⊠, a general permit □, or an (attached) alternative OCD-approved plan Approved by: Signature: **BRYAN G. ARRANT** DISTRICT II GEOLOGIST Printed name: GAYE HEARD Title: Title: AGENT 1 1 2008 Approval Date: 11 Expiration Date: E-mail Address: oilreportsinc@oilreportsinc com 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

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

☐ AMENDED REPORT

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

API	API Number			Pool Code			Pool Name	ı	-
Property	Code				Property Nam STATE "2	Well Number			
					O1711L 2			5 Elevation	
OGRID N	OGRID No.				•	Operator Name EXPLORATION, L.P.			
					Surface Loca	ation			
L or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ν	2	23 S	31 E		660	SOUTH	1980	WEST	EDDY
			Bottom	Hole Loc	ation If Diffe	rent From Sur	face		<u> </u>
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
					•				
	BLE MILL					IL ALL INTEREST	DIVISION		
Coordinate S	id and Coṇf ystem", New um of 1927,	form to the ' Mexico East Distances show	"New Mexico Zone, North				I hereby certify the the t lim best of my knowledge working interest or unleas bottom hite location or has	OR CEPATFICA nformation confidend herein is tru and belief, find that this organiza of miner of interestin the land incl a right to drill this well at this le or of finish a mineral or working it of a compulsory pooling order he	e and complete tron either owns uding the propose cation pursuant interest, or to
11							Signature	Date	

SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of Plane Coordinate X = 680,112.2 Y = 483,508.6 actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief Geodetic Coordinate Lat. 32*19'40.56" N Long. 103*45'00.85" W (NAD '27) April 26, 2007 Date of Survey Signature & Seal of Professional Surveyor MF Date of Survey in ME+; 3415.4 3419.6 -1980'-3417.8 3420.2 W.O. Num წ2007-0515 Certificate No. MACON MCDONALDWAL 12185

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

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

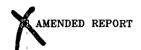
State of New Mexico

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



WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code Po		ool Name		
	96149	Livingston Ridge; Delaware,	SE		
Property Code	P	Well Number			
	S	STATE "2"	5		
OGRID No.	Operator Name Elevation				
	REEF EX	PLORATION, L.P	3416'		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	23 S	31 E		660	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 Or	der No.				11/2 - 14/2 -
40									

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:		OPERATOR CERTIFICATION
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.		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 inferestin the land including the proposed boltom hole 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.
		Gas Hard 5/10/07 Signature Date
		Gaye Heard
		Printed Name
		'
		SURVEYOR CERTIFICATION
Plane Coordinate		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
X = 680,112.2 Y = 483,508.6 Geodetic Coordinate Lat. 32'19'40.56" N		supervison and that the same is true and correct to the best of my belief
Long. 103*45'00.85" W (NAD '27)		April 26, 2007
		Date of Survey ME LVA. Signature & Seal of Professional Surveyor
	,	
3415.4'3419.6'	,	(12185)
3417.8'		W.O. Num: 2007ff 05175
99, /		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" #5 well:

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

Legal location being: 660' 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" # 5 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



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" # 5

LOCATION:

Sincerely,

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

660' 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

In LMR

Yes No X

In Buffer Zone

Yes No X

No X

3 pm

Comments:

Date: 5/23/07



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

JUL - 5 2007

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

OCD-ARTESIA

May 23, 2007 Bureau of Land Management 620 East Greene 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" # 5

LOCATION:

Sincerely.

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

660' 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.

Bryan G. Arrant
District II Geologist, Artesia NMOCD

In LMR
Yes No X
In Buffer Zone
Yes No X

Comments:

Onto Maria Ori WIND Striz

Signature:

Date: 7.2.0.7

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

JUN 22 2007

OCD-ARTESIA

JOHNNY MULLOY

President

June 20, 2007

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

RE: H2S Contingency Plan Sec 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" Lease

#6 660 FNL & 660 FWL #7 1980 FNL & 660 FWL #8 1980 FSL & 660 FWL #9 660 FSL & 660 FWL

State "36" Lease

#1 660 FNL & 1980 FWL #2 460 FNL & 660 FWL #3 1980 FNL & 660 FWL #4 1780 FSL & 860 FWL #5 660 FSL & 660 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

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,

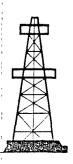
ેર્જ.W. Mulloy

Engineering & Consulting

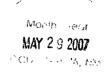
I, Dan Morehouse as representative for Mosaic Potash Carlsbad, Inc hereby waive any and all objections to the drilling of the wells listed above that will be operated by Reef Exploration, L.P.

By:	Date:
Signed:	
Car Payan Arrant	

Cc: Bryan Arrant



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

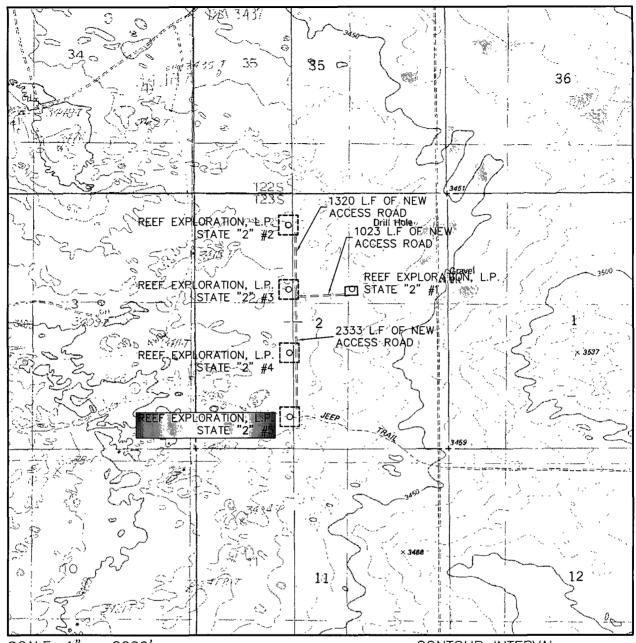
It was determined that no H_2S would be encountered and therefore a contingency plan is not needed. This letter is being sent to you to satisfy the conditions of approval of the above requested permits.

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

Yours Very Truly,

J.W. Mulloy

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

LOS MEDANOS

CONTOUR INTERVAL: LOS MEDANOS - 10'

SEC. 2 TWP. 23-S RGE. 31-E SURVÈY N.M.P.M. COUNTY EDDY DESCRIPTION 660' FSL & 1980' FWL ELEVATION 3416' OPERATOR REEF EXPLORATION, L.P. LEASE STATE "2" U.S.G.S. TOPOGRAPHIC MAP



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' FSL & 1980' FWL ELEVATION 3416' 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

