District F State of New Mexico Form C-101 1625 N. French Dr., Hobbs, NM 88240 Energy Minerals and Natural Resources May 27, 2004 District II 1301 W. Grand Avenue, Artesia, NM 88210 Month - Year Oil Conservation Division MAY 9 2007 Submit to appropriate District Office District III 1220 South St. Francis Droch - ARTESIA, NA 1000 R10 Brazos Road, Aztec, NM 87410 ☐ AMENDED REPORT District IV 1220 S St Francis Dr, Santa Fe, NM 8750 APPLICATION FOR PERMITTO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address OGRID Number REEF EXPLORATION, L.P. 508 WEST WALL, SUITE 700 MIDLAND, TX 79701 246083 30 - 015Property Name STATE "2" Well No. 10 Proposed Pool 2 ⁹ Proposed Pool 1 LIVINGSTON RIDGE; DELAWARE, SE Surface Location UL or lot no Township Lot Idn Feet from the North/South line Feet from the East/West line County Range 23S 31E 1980 NORTH 1980 WEST EDDY F ⁸ Proposed Bottom Hole Location If Different From Surface Lot Idn Feet from the UL or lot no Section Township Range North/South line Feet from the East/West line 1980 NORTH 1980 WEST **EDDY** F 23S 31E Additional Well Information Cable/Rotary Ground Level Elevation Work Type Code Well Type Code Lease Type Code 34213 0 R ¹⁰ Spud Date 16 Multiple Proposed Depth 18 Formation Contractor DELAWARE TRO 06/15/07 NO Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water 1000' or more 1000' or more Liner: Synthetic X 12 mils thick Pit Volume: 2000 bbls Drilling Method. Pit: Closed-Loop System Fresh Water Brine Diesel/Oil-based Gas/Air Proposed Casing and Cement Program Casing weight/foot Setting Depth Hole Size Casing Size Sacks of Cement Estimated TOC 900' 17 1/2" 13.3/8" 48# H-40 835 SURFACE 12 1/4" 8 5/8" 1270 32# K-55 4500' SURFACE 7 7/8" 5 1/2" 17# L-80 8700 750 4500' 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 Operator to set surface casing in abudrite species of Rustler 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 Printed name: GAYE HEARD DISTRICT II GEOLOGIST Title: Expiration Date JUL 1 1 2008 Title: AGENT 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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool	Name
Property Code	Prope STA	rty Name TE "2"	Well Number
OGRID No.	_	tor Name DRATION, L.P.	Elevation 3421'

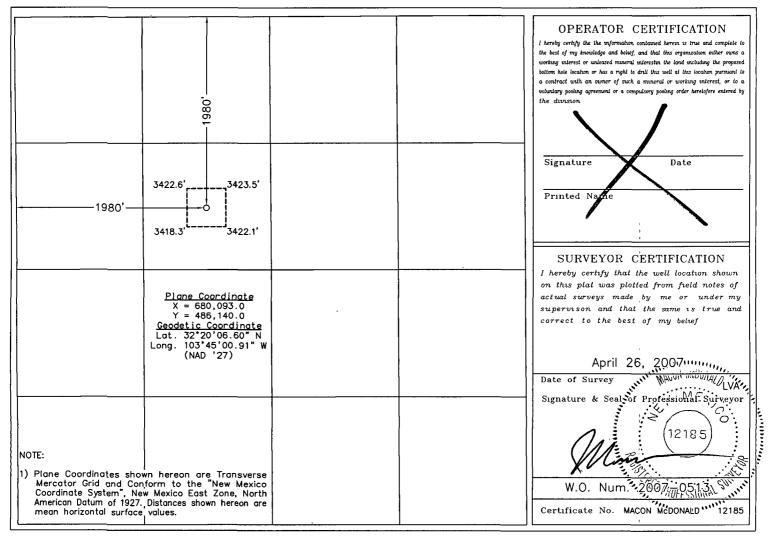
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	2	23 S	31 E		1980	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 of	r 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 I 1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88

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

DISTRICT_IV 1220 S. St. Francis Dr., Santa Fe, NM 8750

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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 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies



WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number '	Pool Code 3-9-380 Livingston	Pool Name n Ridge; Delaware, SE
Property Code	Property Name STATE "2"	Well Number
OGRID No.	Operator Name REEF EXPLORATION, L.P	Elevation 3421'

Surface Location

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

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Dedicated Acres	Joint or	Infill Co	nsolidation (Code Ore	der 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

Plane Coordinate X = 680,093.0 Y = 486,140.0 Geodetic Coordinate Lat. 32*20*06.60* N Long. 103*45*00.91* W (NAD '27)	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 reliber owns a working witherst ir unleased mineral interstin the land including the proposed bottom hate location for has a right is drill his well at this scoten pursuant to a contract with an owner of such a ministral or working interest, or to a volundary pooling agreement or a compulsory pooling order heritofine entered by the discussion. Surveyor certify the 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 Date of Survey April 26, 2007 Interest of the seal of Professional Surveyor in the same as Surveyor in the same and surveyor in the surveyor in the same and surveyor in the surveyor in the surveyor in the same and surveyor in the surveyor in the same and surveyor in the surv
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 2007-0513 (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 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" # 3

LOCATION:

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

1980' 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: \$\frac{3}{2}\frac{3}{5}7\$



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" #3 well:

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

Legal location being: 1980' 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" # 3 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

JUN 15 2007

Oil Conservation Division

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" # 3

LOCATION:

Sincerely,

SEC. 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST

1980' FNL & 1980' FWL

EDDY COUNTY, NM, NMPM

PROPOSED DEPTH: 8700'

Dear Mr. Craig 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 In Buffer Zone	Yes Yes	No ¥ No ¥		
Comments:				
Signature:	j Com	ta	Date:	6-11-07

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,

ヹ.W. Mulloy

J. W. MULLOY ASSOCIATES, INC.

Engineering & Consulting

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

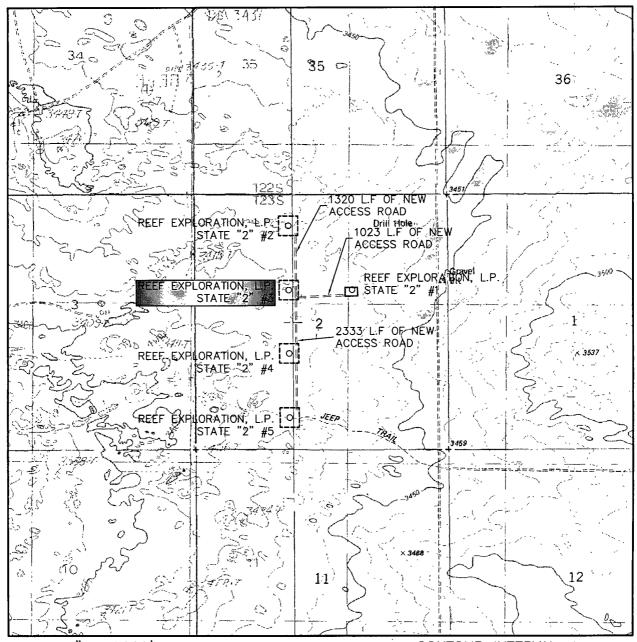
It was determined that no H₂S would be encountered and therefore a contingency plan is not needed. This letter is being sent to you to satisfy the conditions of approval of the above requested permits.

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

Yours Very Truly,

J.W. Mullov

LOCATION VERIFICATION MAP



2000 SCALE:

LOS MEDANOS

9-6-5-3

CONTOUR INTERVAL: LOS MEDANOS - 10"

SEC. 2	TWP. <u>23-S</u> RGE. <u>31-E</u>
SURVEY_	N.M.P.M.
COUNTY	EDDY .
DESCRIP'	TION <u>1980' FNL & 1980' FWL</u>
ELEVATIO	N3421'
OPERATO	R REEF EXPLORATION, L.P.
LEASE	STATE "2"
	TOPOGRAPHIC MAP



WEST

COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

687–0865 – (432) 687–0868 FAX

VICINITY MAP



SCALE: 1" = 5 MILES

SEC. 2 TWP. 23-S RGE. 31-E SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 1980' FNL & 1980' FWL ELEVATION 3421' OPERATOR REEF EXPLORATION, L.P. LEASE STATE "2"



COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

687–0865 – (432) 687–0868 FAX

