Form C-101 May 27, 2004

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

Oil Conservation Division

RECEIVE Submit to appropriate District Office

District IV							South Si Inta Fe, N		:05	JUL - 3		☐ Ai	MENDED REPORT
			•	R PERMIT	TO D	RILL, R	E-ENT	ER, D	EEPEI	N, PLUGB	ACK, OI	R AE	DD A ZONE
				Operator Name						14744	<sup>2</sup> OĞRID	Numbe	er
				Mewbourne Oi Po Box 5 Hobbs, NM	270	′				30 -	O/S		S 5 0 3 3
ľ	3 Prope	rty Code				° Prop	erty Name				Ī	°We	ell No.
ļ	35	2	<u></u>	Forty Nir	er Ridge Un	it					02		
	FONEY	NIN	rRic	Proposed Pool 1	ncw_			<u> </u>		10 Pr	roposed Pool 2	<u> </u>	
	-			• )		<sup>7</sup> Surfa	ace Loca	tion					
	UL or lot no.	Section 16	Township 23S	Range 30E	Lot I		eet from the	North/S	South line N	Feet from the 2310	East/We	st line	County Eddy
		•		No <sup>8</sup> Propo	sed Bot	tom Hole	Location I	f Differe	nt From	Surface			
	UL or lot no.	Section	Township	1	Lot		eet from the		South line	Feet from the	East/We	st line	County
L		L			Ad	lditional	Well Inf	ormati	on	-			- <del></del>
		Type Code N		12 Well Type Coo G	le .	13	Cable/Rotary R		14	Lease Type Code S		15 Gro	ound Level Elevation 3140'
, ,		Iultiple No		<sup>17</sup> Proposed Dept 14600	h		8 Formation Morrow			<sup>19</sup> Contractor TBA		<sup>20</sup> Spud Date ASAP	
	Depth to Grou		100 No	o = 0 pts		e from neare			0 pts	Distance f	rom nearest su nore 0 pts	urface v	vater
	_	: Synthetic		mils thick Clay	☐ Pit	Volume:_240	000bb			ling Method: Pro			
L	Close	ed-Loop Sys	stemi	21	Dronge	sed Casir	ag and C			Brine X C	lesel/O1l-base	d [ ]	Gas/Air [_]
ſ										<u> </u>		1	E.C. A. LTOG
	Hole S		*	asing Size	Casing	g weight/foo		Setting Depth 450'		Sacks of			Estimated TOC Surface
1	12 1/2		*	9 5/8"		40#			,		1000		Surface
ŀ	8 3/4		*	7"		26#		11000		15		orf	cce Tie back
I	6 1/8	"	5	" or 4 ½"		18#		14900	0'	50			Tie Back
	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.  BOP Program: 13 %" 2k Hydril (see Exhibit #2) from surface casing to intermediate TD. Schaffer LWS or equivalent (Double-Ram Hydraulic) 11" 5000# with Hydril. (See Exhibit #2A) from surface casing to total depth. Rotating head, PVT, flow monitors and mud gas Separator from the Wolfcamp to TD.  Mud Program:  0' to 450' Fresh Water, spud mud, lime for PH and LCM as needed for seepage.  450' to 3500' Brine Water, lime for PH and LCM as needed for seepage.  3500' to 11000' Fresh Water, cut brine, lime for PH and LCM as needed for seepage.  11000' to TD Cut brine. Caustic for PH, Starch for WL control and LCM as needed for seepage												
	<u>- 111'</u>	•		N	54	4	<del></del>	· · · · · · · · · · · · · · · · · · ·		Dei	11	٥,	als
	best of my kn	owledge ar	nd belief. I to NMOC	ion given above is t further certify that D guidelines X, a s	t the drill	ling pit will	be	oved by:	OIL C	CONSERVA	ATION D	IVIS	SION
	(attached) al			oved plan	MI	(m)					G. ARR		
ļ	Printed name Title: Hobbs			10 mu	y u	~~~ <u>~</u>	Title:	oval Date	ماات م		CT II GE		5110
+	E-mail Addre						Appr	Oval Daid	nou ()	1 2006	Expiration I	Jait:	AUG 0 1 2007
	Date: 06/29/0			Phone:			Cond	itions of A	• •	NOTIFY ALL CAS	OCD TO	DWI RIN	ITNESS GS
			< 1	~					7	יישות לומג	± خانس≻ بیبر		

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

1301 W. Grand Avenue, Artesia, NM 88210

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe. NM 87505 OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Name
	16800 Feary Niner-Rid	• '.Morrow
Property Code	Property Name	Well Number
	FORTY-NINER RIDGE UNIT	102
OGRID No.	Operator Name	Elevation
14744	MEWBOURNE OIL COMPANY	3140'

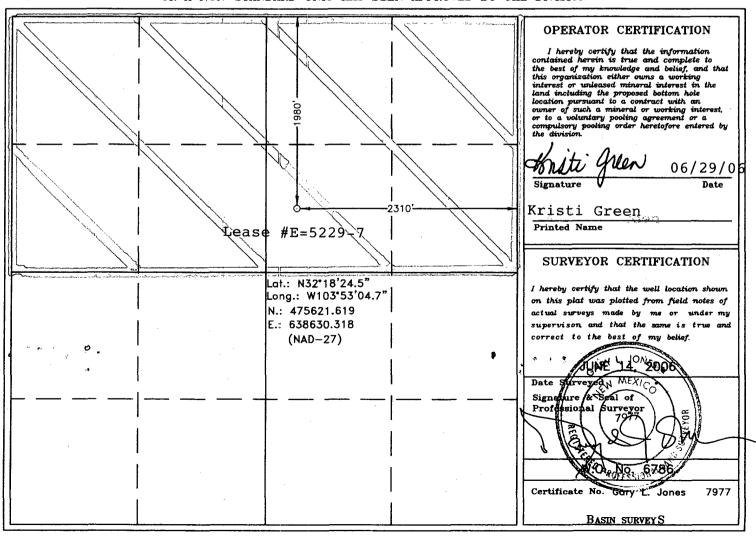
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	16	23 S	30 E		1980	NORTH	2310	EAST	EDDY

#### Bottom Hole Location If Different From Surface

Γ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
			İ					•		
Dedicated Acres Joint or Infill Consolidation Code Order No.										
	320									

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



# MULTI-POINT SURFACE USE AND OPERATIONS PLAN

# MEWBOURNE OIL COMPANY

Forty Niner Ridge Unit #102 1980' FNL & 2310' FEL Section 16-T23S-R30E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, Covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

#### 1. Existing Roads:

- A. Exhibit #3 is a road map showing the location of the proposed well. Existing roads are highlighted in black and proposed roads are highlighted in yellow. Exhibit #3A is a topographic map showing the location of the proposed well and access roads. Existing roads are highlighted in black and proposed roads are highlighted in yellow.
- B. Directions to location: East from Carlsbad on US 62/180 17.3 miles to NM 31 (Potash Ash Rd). Turn right (south) on NM31 and continue south 15 miles to NM128 (Jal Hwy). Turn left (east) and continue east 7.3 miles. Turn right (south) on Eddy Co 795 (Mobley Rd) and continue south 0.6 miles to "Y". Turn right (SW) and continue SW 1.5 miles. Turn left (east) into new location.

# 2. Proposed Access Road:

- A Will need approx 150' of new road.
- B. The access to the location will be limited to 16' in width and will adequately drain runoff and control erosion as presently constructed.

#### 3. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, production facilities will be located on the well pad.
- C. All production vessels left on location will be painted to conform with BLM painting stipulations within 180 days of installation.

# 4. Location and Type of Water Supply

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

#### 5. Source of Construction Materials

All material required for construction of the drill pad and access roads will be obtained from private, state, or federal pits. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.

Forty Niner Ridge Unit #102 Page 2

# 6. Methods of Handling Waste Disposal:

- A. Drill cuttings not retained for evaluation purposed will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pit prior to closure.
- C. Water produced during operations will be disposed of in the reserve pit.
- D. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- E. Current regulations regarding the proper disposal of human waste will be followed.
- F. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

# 7. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

#### 8. Well Site Layout

- A diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad, pits, and location of major rig components are shown.
- B. The reserve pit will be lined with a high quality plastic sheeting to prevent migration of fluids.
- C. The pad dimension of 400' X 250' has been staked and flagged.

#### 9. Plans for Restoration of Surface

- A. Upon cessation of the proposed operations, if the well is abandoned, the location and road will be ripped and re-seeded. The reserve pit area, after allowing to dry will be leveled. The entire location will be restored to the original contour as much as reasonable possible. All trash, garbage, and pit lining will be hauled to appropriate disposal to assure the location is aesthetically pleasing as reasonable possible. All restoration work will be completed within 180 days of cessation of activities.
- B. The disturbed area will be restored by re-seeding during the proper growing season.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. The reserve pit will be fenced on the fourth side after the drilling rig is removed to prevent the endangerment of livestock. The fence will remain in place until the pit area has been leveled and restored.
- D. Upon cessation of the proposed operations, if the well is not abandoned, the reserve pit area will be restored as per OCD guidelines. Any additional caliche required for production facilities will be obtained from a source as described in Section 6.
- E. Within 90 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location will be cleaned of all trash and junk to assure the well site is left as aesthetically pleasing as reasonably possible.

#### MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Forty Niner Ridge Unit #102 Page 3

#### 10. Surface Ownership:

The surface is owned by:

State of New Mexico

#### 11. Other Information:

A. Topography:

Refer to the archaeological report for a detailed description of flora,

fauna, soil characteristics, dwellings, and historical or cultural sites.

B. The primary use of the surface at the location is for grazing of livestock.

# 12. Operator's Representative:

A. Through APD approval, drilling, completion and production operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241

505-393-5905

#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Mewbourne Oil Company, its contractors and subcontractors, in accordance with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date:	06/29/06	Signature:	
		<del>- 10 0/0~ </del>	

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 (505) 393-5905

# Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company
Forty Niner Ridge Unit #102
1980' FNL & 2310' FEL
Section 16-T23S-R30E
Eddy County, New Mexico

#### 1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation @ 3350' for purposes of safety and insurance requirements.

# 2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1. The hazards and characteristics of hydrogen sulfide gas.
- 2. The proper use of personal protective equipment and life support systems.
- 3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

#### 3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

# 1. Well Control Equipment

- A. Flare line with automatic igniter or continuous ignition source.
- B. Choke manifold with minimum of one adjustable choke.
- C. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment including rotating head and annular type blowout preventer.

#### 2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located at briefing area as indicated on wellsite diagram.

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company Forty Niner Unit #102 Page 2

### 3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 ppm.

#### 4. Visual Warning Systems

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

#### 4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

#### 5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

#### 6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

# 7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

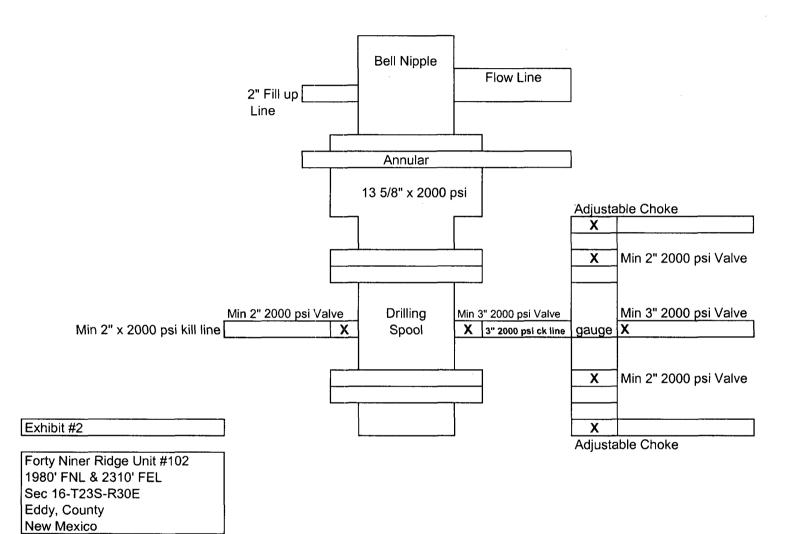
# Notes Regarding Blowout Preventer

**Mewbourne Oil Company** 

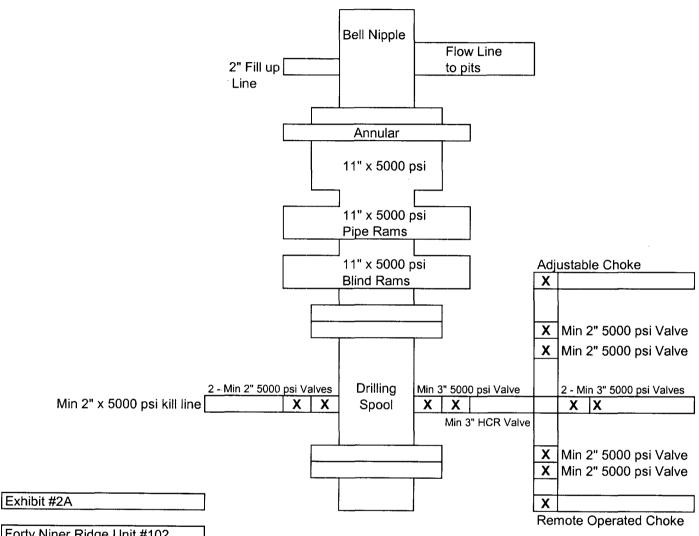
Forty Niner Ridge Unit #102 1980' FNL & 2310' FEL Section 16-T23S-R30E Eddy County, New Mexico

- 1. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- 2. Blowout preventer and all fittings must be in good condition with a minimum 5000 psi working pressure.
- 3. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 5000 psi working pressure.
- 4. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- 5. A kelly cock shall be installed on the kelly at all times.
- 6. Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

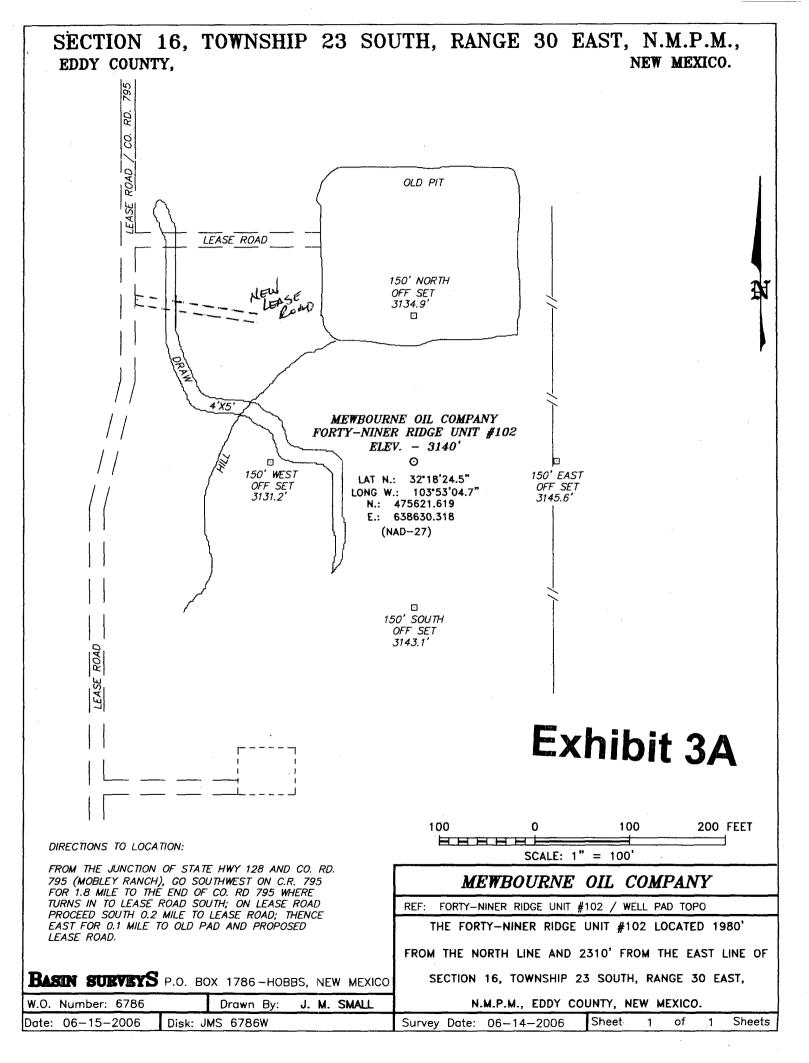
# Mewbourne Oil Company BOP Scematic for 12 1/4" Hole

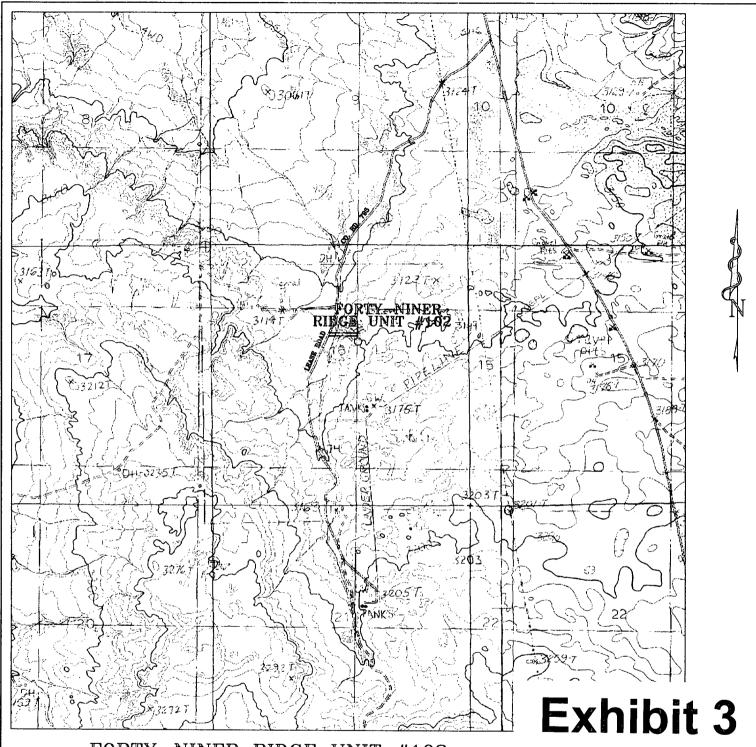


# Mewbourne Oil Company BOP Scematic for 8 3/4" or 7 7/8" Hole



Forty Niner Ridge Unit #102 1980' FNL & 2310' FEL Sec 16-T23S-R30E Eddy, County New Mexico





FORTY-NINER RIDGE UNIT #102 Located 1980 FNL and 2310' FEL Section 16, Township 23 South, Range 30 East, N.M.P.M., EDDY County, New Mexico.

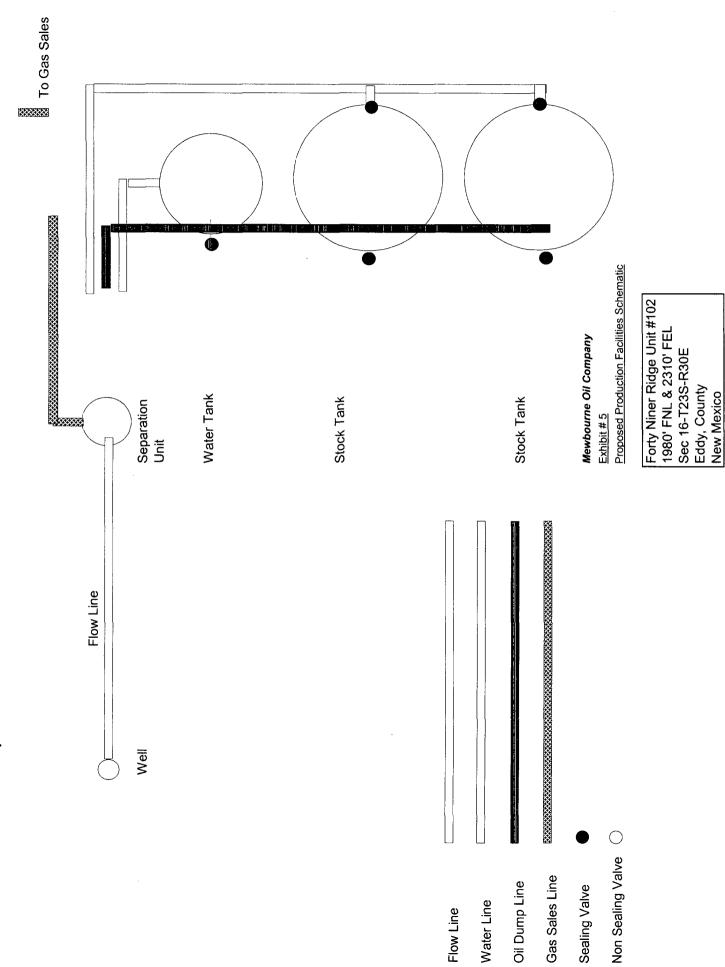


P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O. Number: 6786 JMS
Survey Date: 06-14-2006
Scale: 1" = 2000'
Date: 06-15-2006

MEWBOURNE OIL CO.

Rig Location Schematic





Mosaic Potesh Carlabad Inc. PO Box 71 1361 Putash Mines Road Carlabad, NM 88220 www.mosaicoo.com Tel 805-887-2971 Fex 605-887-0589

July 7, 2006

(432) 685-4170 FAX

Mr. Steven J. Smith Senior Landman Mewbourne Oil Company 500 W. Texas, Suite 1020 Midland, Texas 79701

#### Dear Steve:

We are in receipt of your letter dated 6/22/2006 concerning permitting a well in Section 16, T-23-S, R-30-B. Mosaic Potash Carlsbad Inc. does have potash leases to the North and to the East of this section.

The Morrow test at 1980' FNL & 2310' FEL is just within ½ mile of our LMR and just on the edge of the enclave as drawn by the BLM. This location only slightly further impacts potash beyond what has already been compromised by previous drilling in the area (Forty Niner Ridge Unit #1). Therefore Mosaic does not object to this location for this gas test well.

As more information becomes available, our estimates of the extent of potash resources in any given area may change. Therefore, please consider this "no objection" to this location to be valid for one year only. If you are still considering this well location at a date later than one year from today, notify us again at that time so we can make the decision on information content at that time. Do not consider a "no objection offered" or an "objection offered" decision to be permanent.

Sincerely.

Dan Morehouse

Mine Engineering Superintendent

ce: Don Purvis David Waugh



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

#### BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

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

RECEIVED

July 14, 2006 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 1 9 2006 Qui-matesia

RE:

APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

**OPERATOR:** 

Mewbourne Oil Company Forty Niner Ridge Unit # 102

LEASE NAME: LOCATION:

SEC. 16, TOWNSHIP 23 SOUTH, RANGE 30 EAST,

1980' FNL & 2310' FEL

**EDDY COUNTY, NM, NMPM** 

PROPOSED DEPTH: 14900'

Dear Joe 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 PES, District II Artesia NMOCD

In LMR In Buffer Zone

Yes\_\_\_\_\_

No X

Win Zbuffer

**Comments:** 

Jon 28m 7/14/06

Signature: Oal

Date: 7/14/0 6



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

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

RECEIVED

July 14, 2006
Bureau of Land Management
620 East Greene St.
Carlsbad, NM 88220-7292
Attn: Mr. Craig Cranston or To Whom It May Concern

RE: APPLICATION FOR PERMIT TO DRILL IN POTASH AREA

Forty Niner Ridge Unit # 102

Mewbourne Oil Company

<b>LOCATION:</b>	SEC. 16, TOWNSHIP 23 SOUTH, RANGE 30 EAST,	JUL 2 6 2006		
	1980' FNL & 2310' FEL	ULU-WELLEOIW		
	EDDY COUNTY, NM, NMPM			
	A Company of the Comp			
PROPOSED DE	PTH: 14900'	The second secon		
Dear Craig or To	Whom It May Concern,	to the control of the		

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,

**OPERATOR:** 

**LEASE NAME:** 

Bryan G. Arrant	
PES, District II Artesia NMOCD	

In LIVIK In Buffer Zo	one	Yes_\(\frac{\pi}{\pi}\)	<del></del>	No_ <del>*</del>		€.		·
Comments:	In 1/e A	20432 B	1.18686 2		2 Mosia	IC POTAS		
	Nision Ma			To Biz	Out C	312 LMR	1/2 MILIZ	
Signature: _	( ao	101	ngusta	· ·		Date:_	7-24	<u>~06</u>