Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia. NM 88210
DEPARTMENT OF THE INTERIOR

FORM	APPROV.	ED
OMB N	To. 1004-01	37
Expires	March 31,	2007

BUREAU OF LAND MAN	ACEMENT		NM-0354232		
APPLICATION FOR PERMIT TO	6. If Indian, Allotee	or Tribe Name			
la. Type of work: DRILL REENTE	ER.		7 If Unit or CA Agree	ment, Name and No.	
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and W Esperanza "19	ell No. " Federal Com #2	
2. Name of Operator Mewbourne Oil Company (OGRID #14	1744)		9. API Well No.	· 33 4 94	
3a. Address P.O. Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) (505) 393-5905		10. Field and Pool, or E Burton Flat Me	•	
4. Location of Well (Report location clearly and in accordance with an	y State requirements.*)		11. Sec., T. R. M. or Bl	k.and Survey or Area	
At surface 599' FNL & 2043' FEL At proposed prod. zone 764' FNL & 1624' FWL			Sec. 19, T21S,	R27E	
14. Distance in miles and direction from nearest town or post office* 3 miles N of Carlsbad	,	•	12. County or Parish Eddy	13. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 764'	16. No. of acres in lease 314.84		g Unit dedicated to this w acres (N/2)	ell	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2170'	19. Proposed Depth 11,700' TVD		/BIA Bond No. on file -1693, Nationwide		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3190' GL	22. Approximate date work will sta 07/01/2004	<u> </u>			
	24. Attachments				
The following, completed in accordance with the requirements of Onshor 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	4. Bond to cover t ltem 20 above). Lands, the 5. Operator certific	he operation cation specific info		existing bond on file (see	
25. Signature Lagran	Name (Printed/Typed) F. C. Lathan			Date 04/07/2004	
Title Hobbs District Drilling foreman	\				
Approved by (Signate) LESLIE A. THEISS	Name (Printed Topped)	A. Th	HEISS	Date JUN 2 8 2004	
Title FIELD MANAGER	1		FIELD OF	_	
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval if any are attached.	s legal or equitable title to those righ	-		ntitle the applicant to	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

RLSBAD CONTROLLED WATER BASIN

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

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

March 12, 2004

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes X No

Type of action: Registration of a pit	or below-grade tank X Closure of a pit or below-gra	ade tank 🔲
Operator: Mewbourne Oil Company	Telephone: (505)393-5905	e-mail address: hobeng@mewbourne.com
Address: P.O. Box 5270, Hobbs, New Mexico 88241		
Facility or well name: Esperanza "19" Federal Com #2 API #:	U/L or Qtr/Qtr B Sec 19 T	21S R 27E
	13-38.1 W NAD: 1927 ☐ 1983 🛭 Surface Own	
<u>Pit</u>	Below-grade tank	
Type: Drilling X Production Disposal	Volume:bbl Type of fluid:	
Workover ☐ Emergency ☐	Construction material:	
Lined X Unlined	Double-walled, with leak detection? Yes If no	ot, explain why not.
Liner type: Synthetic X Thickness 20 mil Clay		
Volume <u>24,000</u> bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points)
water elevation of ground water.)	50 feet or more, but less than 100 feet X	(10 points) X
water elevation of ground water.	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No X	(0 points) X
Distance 4 and a surface when the size and distance 4 and a size a	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more X	(0 points) X
	Ranking Score (Total Points)	10 points
If this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks. (2) Indica	ate disposal location:
onsite Offsite If offsite, name of facility	(3) Attach a general description of remedial acti	on taken including remediation start date and end
date. (4) Groundwater encountered: No 🗌 Yes 📋 If yes, show depth belo		
diagram of sample locations and excavations.		(,
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines a Date: 05/14/004	general permit 🔲, or an (attached) alternative OC	above-described pit or below-grade tank has D-approved plan □.
Printed Name/Title F.C. Lathan / Drilling Foreman	Signature I.O. Lauhan	
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.	relieve the operator of liability should the contents of operator of its responsibility for compliance with any	the pit or tank contaminate ground water or other federal, state, or local laws and/or
Approval: Date: 6-1-04	heur dur	
Printed Name/Title	Signature Deluy Juy	
	/ / '	

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Axtee, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

mergy, Minerals and Natural Resources Department

Revised March 17, 1999
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
ł		Burton Flat Morrow	
Property Code	Prop	erty Name	Well Number
1	ESPERANZA	2	
OGRID No.	Opera	Elevation	
14744	MEWBOURNE (DIL COMPANY	3190

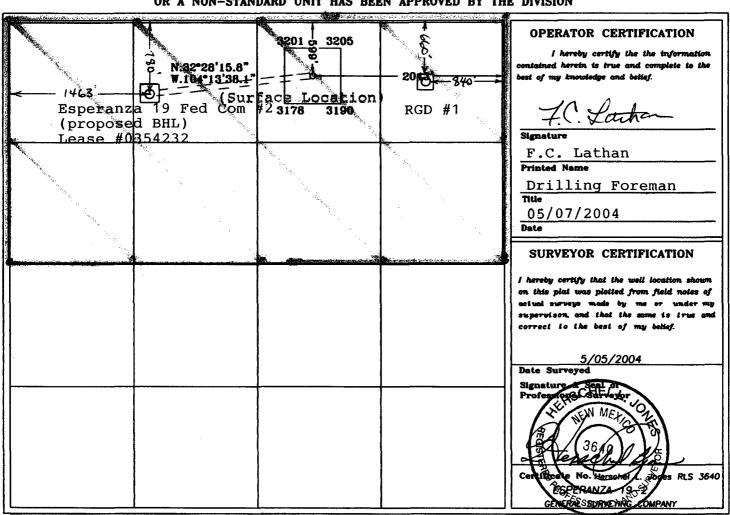
Surface Location

UL or lot N	. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	19	215	27E]	599	NORTH	2043	EAST	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
C	19	215	27E		780	North	1463	West	Eddy
Dedicated Acres Joint or Infill Consolidation Code		Code On	der No.				-		
314.84									

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



2310' 1980'1650

1650' 1980' 2310'

990' 660' 330'

<u>Drilling Program</u> Mewbourne Oil Company

Esperanza "19" Federal Com #2
599' FNL & 2043' FEL (Surface Location)
Section 19, T21S, R27E
Eddy County, New Mexico
Lease Number NM-0354232

1. The estimated top of geological markers are as follows:

Capitan Reef	660'
Delaware	2600'
Bone Spring	4920'
Wolfcamp	8735'
Strawn	10080'
Atoka	10550'
Morrow	11100'
TD	11700'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water

Approximately 200'

Hydrocarbons

All zones below Delaware

3. Pressure control equipment:

A 2000 psi working pressure annular BOP will be installed on the 13-3/8" surface casing. A 5000 psi WP Double Ram BOP and a 3000 psi WP Annular will be installed after running 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings.

BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated daily to insure mechanical integrity and the inspection will be recorded on the daily drilling report.

Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the kelly is not in use.

4. Proposed casing and cementing program:

A.	Casing	Program:
7 B 0	Casing	IIVEI am.

Drill Wol	Hole Size	Casing	Wt/Ft.	<u>Grade</u>	Depth 510'
_ , ,	√17 1/2 "	13 3/8"	48#	H40	0-490 510
Water mist	12 1/4"	9 5/8"	40#	K55/N80	0-2600 2500
System	8 3/4"	5 1/2"	1 7 #	P110/N80	0-11700'
to 2500'					

Drilling Program

Mewbourne Oil Company

Esperanza "19" Federal Com #2

Page 2

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

B. Cementing Program

i. WITNESS

Surface Casing: 300 sacks Class "C" light cement containing WITNESS

1/2 #/sk cellophane flakes, 2% CaCl, 5 lbs/sack gilsonite. 200

sacks Class "C" cement containing 2% CaCl.

- ii. <u>Intermediate Casing:</u> 900 sacks 35:65 pozmix cement containing 6% gel, 5 lbs/sack gilsonite. 200 sacks Class "C" cement containing 2% CaCl.
- iii. Production Casing: 600 sacks Class "H" cement containing fluid loss additive, friction reducer additive, compressive strength enhancer, and NaCl. Shallower productive zones may be protected by utilizing a multiple stage cementing tool in the production casing below potentially productive zones and cementing with a light cement slurry.

5. Mud Program:

<u>Interval</u>	Type System	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0'-400'	FW spud mud	8.6-9.4	32-34	NA
400'-2600'	Fresh water	8.4-8.6	28-30	NA
2600'-10550'	Cut brine water	8.8-9.2	28-30	NA
10550'-TD	BW/Starch	9.2-9.8	30-40	8-15

(Note: Any weight above 8.6 ppg would be to hold back Wolfcamp shale, rather than abnormal bottom hole pressure in Morrow formation.)

6. Evaluation Program:

Samples:

10'samples from intermediate casing to TD

Logging:

Compensated density and dual laterlog from intermediate casing

to TD

Coring:

As needed for evaluation

Drill Stem Tests:

As needed for evaluation

7. Downhole Conditions

Zones of abnormal pressure:

None anticipated

Zones of lost circulation:

Anticipated in surface and intermediate holes

^{*}Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

Drilling Program
Mewbourne Oil Company
Esperanza "19" Federal Com #2
Page 3

Maximum bottom hole temperature: 180 degree F

Maximum bottom hole pressure: 8.6 lbs/gal gradient or less

8. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 35 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Esperanza "19" Federal Com #2
599' FNL & 2043' FEL (Surface Location)
Section 19, T21S, R27E
Eddy County, New Mexico
Lease Number NM-0354232

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. Exhibit #3A is a topographic map showing the location of the proposed well and access road. Existing roads are highlighted in yellow and proposed roads are highlighted in green.
- B. Directions to location: North from Carlsbad on North Canal Street to Carlsbad Relief Route. Turn RIGHT (East) and continue east 0.6 miles. Turn RIGHT (South) through cattle guard. Road will turn RIGHT (West). Continue west 0.2 miles on asphalt, then 0.1 mile on new road to new location.

2. Proposed Access Road:

- A The access road will be built from an existing road and will enter the location pad from the northeast corner.
- B. The access to the location will be limited to 16' in width and will adequately drain runoff and control erosion as presently constructed.
- C. Access to location has an existing grade to facilitate adequate drainage.

3. Location of Existing Wells:

There are producing wells within the immediate vicinity of the well site. Exhibit #4 shows the proposed well and existing wells within a one mile radius.

4. 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. If the well is productive, restoration plans are as follows:

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MEWBOURNE OIL COMPANY

Esperanza "19" Federal Com #2 Page 2

- i. The reserve pit will be back-filled after the contents of the pit are allowed to dry (within 180 days after the well is completed).
- ii. 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
- iii. All production vessels left on location will be painted to conform with BLM painting stipulations within 180 days of installation.

5. 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 hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

6. 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.

7. 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.

8. Ancillary Facilities

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

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MEWBOURNE OIL COMPANY

Esperanza "19" Federal Com #2 Page 3

9. 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 400' has been staked and flagged.
- D. An archaeological survey has been conducted on the proposed access road and location pad.

10. 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 per BLM guidelines. 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 with a mixture of native grasses as stipulated by the BLM.
- 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 treated as outlined above within the prescribed amount of time. Any additional caliche required for production facilities will be obtained from a source as described in Section 6.

11. Surface Ownership:

The surface is owned by:

J. Vaughan and Constance Westaway Trust

12. 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.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MEWBOURNE OIL COMPANY

Burton Flat "5" Federal #5 Page 4

13. Operator's Representative:

A. Through APD approval and drilling operations:

Mickey Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 505-393-5905

B. Through completion and production operations:

Mickey Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 505-393-5905

14. 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: 5/7/04 Signature: \(\frac{\(\frac{1}{2} \) \(\frac{1}{2} \)

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

Mewbourne Oil Company BOP Schematic for 12 1/4" Hole

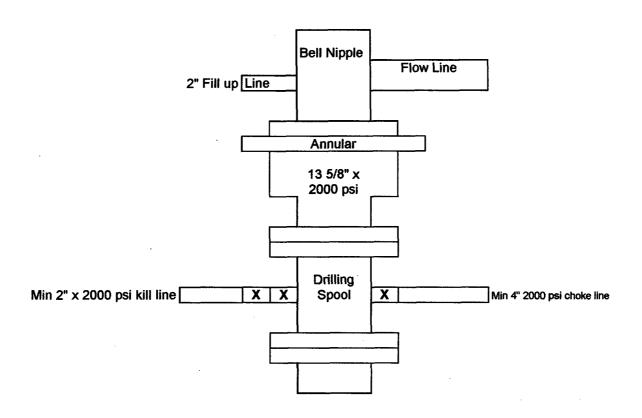
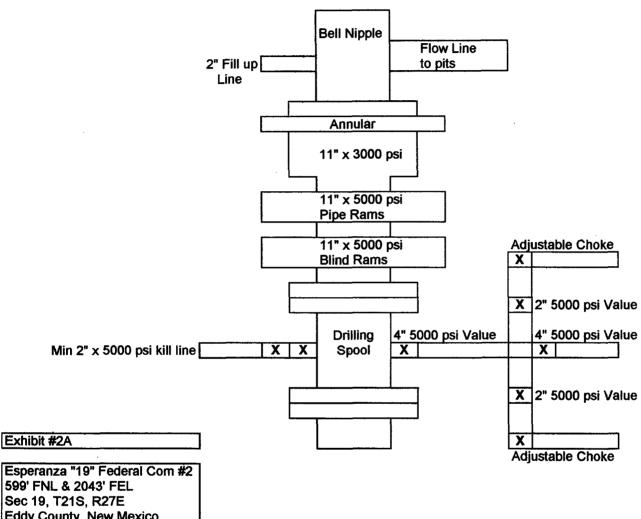


Exhibit #2

Esperanza "19" Federal Com #2 599' FNL & 2043' FEL Sec 19, T21S, R27E Eddy County, New Mexico Lease #NM-0354232

Mewbourne Oil Company BOP Schematic for 8 3/4" Hole

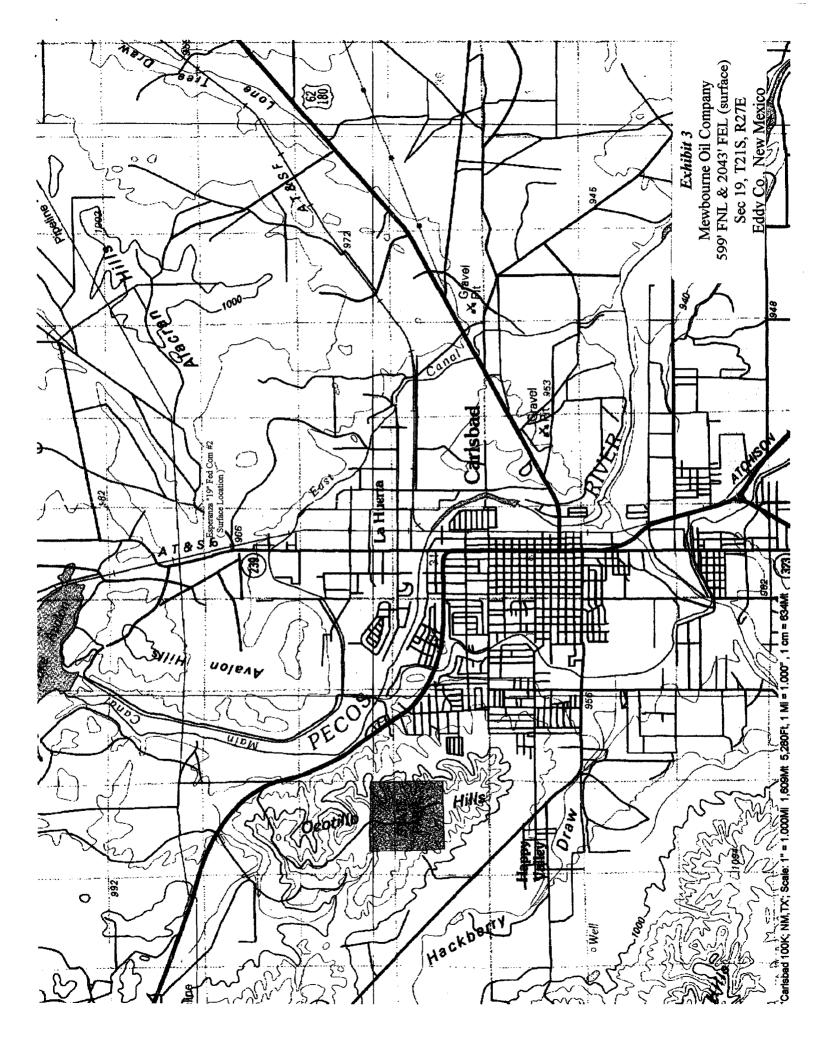


Eddy County, New Mexico Lease #NM-0354232

Notes Regarding Blowout Preventer Mewbourne Oil Company

Esperanza "19" Federal Com #2
599' FNL & 2043' FEL (Surface Location)
Sec 19-T21S-R27E
Eddy County, New Mexico
Lease #NM-0354232

- 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 2000 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 3000 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.



"19" FEDERAL COM.#2 78T 8 SUBSTATION 3126T Exhibit 3A Mewbourne Oil Company 599' FNL & 2043' FEL (surface) Sec 19, T21S, R27E Eddy Co., New Mexico 1000 1000 <u> 2</u>000' 1000 THE PREPARATION OF THIS PLAT AND THE PERFORMANCE OF THE SURVEY UPON WHICH IT IS BASED WERE DONE OFFICE NO DIRECTION AND THE PLAT ACCURATELY DEPICTS THE RESIDENCE (SAID SURVEY AND MEET THE REQUIREMENTS OF THE PLANDS-FOR LAND SURVEYS IN NEW MEXICO AS ADOPTED BY THE NEW MEDICO STATE BOND OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYS THE RESIDENCE. **MEWBOURNE** COMPANY LEASE ROAD TO ACCESS THE MEWBOURNE ESPERANZA "19" FEDERAL COM.#2 WELL, LOCATED IN SECTION 19, TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO. No.3640 Survey Date: 4/29/2004 Sheet 1 ANY P.O. BOX 1928 NEW MEXICO 88260 GENERAL SUR Drawn By: Ed Blevins W.O. Number LOVINGTON, Scole 1" = 1000" ESPER 19-2 Date: 4/29/04

SECTION 19, TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO.

Exhibit #4

Status of Wells in Immediate Vicinity

Mewbourne Oil Company

Espereanza "19" Federal Com #2
599' FNL & 2043' FEL (Surface Location)
Section 19, T21S, R27E
Eddy County, New Mexico
Lease # NM-0354232

Section 19, T21S, R27E

Operator:

Mewbourne Oil Company

Well Name:

Esperanza "19" Federal Com #1

Unit letter:

I

Status:

Producing

Field:

Burton Flat Morrow

Operator:

Wynn-Crosby Energy

Well Name:

RGD #1

Unit letter:

Α

Status:

Producing

Field:

Burton Flat Morrow

Operator:

Vernon E. Faulconer

Well Name:

Pioneer Federal #1

Unit letter:

G

Status:

Producing

Field:

La Huerta Strawn

Operator:

Vernon E. Faulconer Challenger Rayroux #1

Well Name: Unit letter:

P

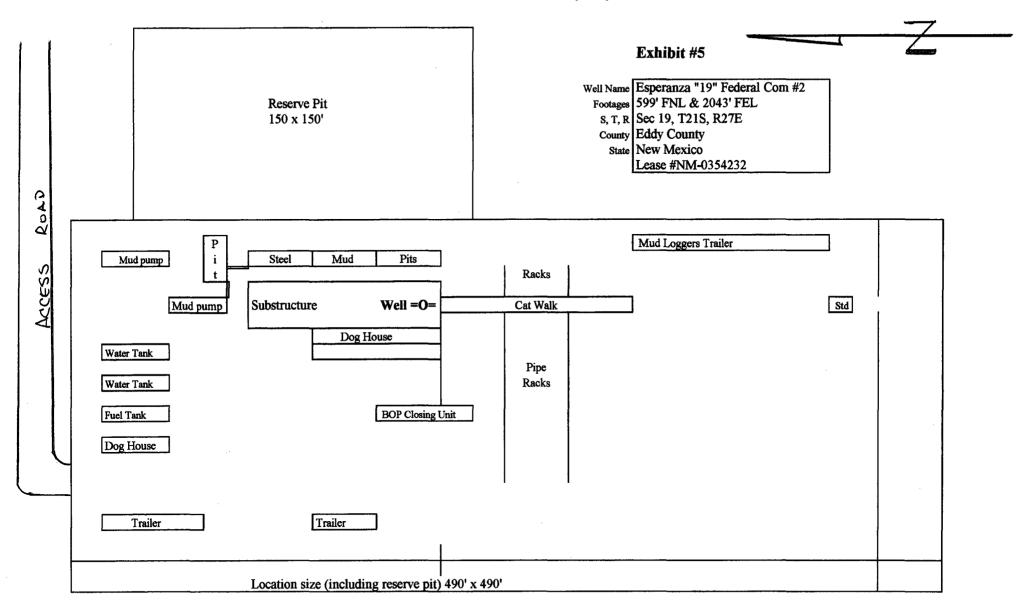
Status:

Producing

Field:

East Carlsbad Wolfcamp

Mewbourne Oil Company



Rig Location Schematic

Proposed Production Facilities Schematic To Gas Sales Flow Line Separation Well Unit Water Tank Stock Tank Flow Line Water Line Stock Tank Oil Dump Line Gas Sales Line Mewbourne Oil Company Sealing Valve Exhibit # 6 Proposed Production Facilities Schematic Non Sealing Valve Esperanza "19" Federal Com #2 599' FNL & 2043' FEL Sec 19, T21S, R27E Eddy County, New Mexico Lease #NM-0354232

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

Esperanza "19" Federal Com #2
599' FNL & 2043' FEL (Surface Location)
Sec 19, T21S, R27E
Eddy County, New Mexico
Lease #NM-0354232

1. 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:

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

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

- A. 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.
- B. Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- C. 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.

2. 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.

A. Well Control Equipment

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

Protective Equipment for Essential Personnel

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

B. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u>

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.

C. <u>Visual Warning Systems</u>

- 1. Wind direction indicators as indicated on the well site diagram.
- 2. 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.

3. 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.

4. 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.

5. Communications

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

6. 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.

7. General Requirements

MOC has researched this area and no high concentrations of H2S was found. MOC will have all H2S safety equipment on location and working before Yates and Delaware formations.

United States Department of the Interior Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name:

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number:

Lease Number NM-0354232

Legal Description of Land:

Section 19, T-21S, R-27E Eddy County, New Mexico. Surface

location at 599' FNL & 2043' FWL.

Formation (if applicable):

Bond Coverage:

\$150,000

BLM Bond File:

NM1693, Nationwide

Authorized Signature:

: NM (Micky) Young Title: District Manager

Date: May 7, 2004

07/08/2004 12:08 5053976252

PRECISION DRILLING SERVICES

Client : MEWBOURNE OIL CO. Page : 1 of 2
Well Name : ESPERANZA 19-2 Date : 7/1/2004
Location : EDDY COUNTY, NM File : DRAFT D

KB Elevation: MA Gr Elevation: NA Vertical Section Calculated Along Azimuth 261.88°

MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
ft	deg	deg	ft	ft	ft	ft	°/100	°/100	
		_	ROP-		1.5°/100'		,	, 400	, 200
5828.00	0.00	261.88	5828.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	1.08	261.88	5900.00	-0.10	-0.67	0.68	1.50	1.50	0.00
6000.00	2.58	261.88	5999.94	~0.55	-3.83	3.87	1.50	1.50	0.00
6100.00	4.08	261.88	6099.77	-1.37	-9.58	9.68	1.50	1.50	0.00
6200.00	5.58	261.88	6199.41	-2.56	-17.92	18.10	1.50	1.50	0.00
6300.00	7.08	261.88	6298.80	-4.12	-28.83	29.13	1.50	1.50	0.00
6400.00	8.58	261.88	6397.86	-6.04	-42,32	42.75	1.50	1.50	0.00
6500.00	10.08	261.88	6496.54	-8.33	-58.37	58.96	1.50	1.50	0.00
6600.00	11.58	261.88	6594.75	-10.99	-76.97	77.75	1.50	1.50	0.00
6700.00	13.08	261.88	6692.45	-14.00	-98.11	99.10	1.50	1.50	0.00
6800.00	14.58	261.88	6789.54	-17.38	-121 <i>.7</i> 7	123.01	1.50	1.50	0.00
6900.00	16.08	261.88	6885.98	-21.12	-147.94	149.44	1.50	1.50	0.00
7000.00	17.58	261.88	6981.70	-25.21	-176.61	178.40	1.50	1.50	0.00
3000 40	44			~ Hold at					
7027.98	18.00	261.88	7008.34	-26.42	-185.07	186.94	1.50	1.50	0.00
7100.00	18.00	261.88	7076.83	-29.56	-207.10	209.20	0.00	0.00	0.00
7200.00	18.00	261.88	7171.94	-33.9 3	-237.69	240.10	0.00	0.00	0.00
7300.00	18.00	261.88	7267.05	-38.29	-268.28	271.00	0.00	0.00	0.00
7400.00	18.00	261.88	7362.15	-42.66	-298.87	301.90	0.00	0.00	0.00
7500 00	10.00								
7500.00	18.00	261.88	7457.26	-47.03	-329.46	332.80	0.00	0.00	0.00
7600.00	18.00	261.88	7552.36	-51.39	-360.06	363.71	0.00	0.00	0.00
7700.00 7800.00	18.00	261.88	7647.47	-55.76	-390.65	394.61	0.00	0.00	0.00
7900.00	18.00	261.88	7742.57	-60.13	-421.24	425.51	0.00	0.00	0.00
7900.00	18.00	261.88	7837.68	-64.49	-451.83	456.41	0.00	0.00	0.00
8000.00	18.00	261.88	7022 70	60.06	400 40	405 5.			
8100.00	18.00	261.88	7932.79 8027.89	-68.86	-482.42	487.31	0.00	0.00	0.00
8200.00	18.00	261.88	8123.00	-73,22	-513.01	518.21	0.00	0.00	0.00
8300.00	18.00	261.88	8218.10	-77.59	-543.60	549.11	0.00	0.00	0.00
0300.00	10.00	Cross	Half Sect	-81.96	-574.19	580.01	0.00	0.00	0.00
8381.70	18.00	261.88	8295.81	-85.52					
8400.00	18.00	261.88	8313.21	-86.32	-599.19	605.26	0.00	0.00	0.00
8500.00	18.00	261.88	8408.32		-604.79	610.92	0.00	0.00	0.00
8600.00	18.00	261.88	8503.42	-90.69	~635.38	641.82	0.00	0.00	0.00
8700.00	18.00	261.88	8598.53	-95.06	-665.97	672.72	0.00	0.00	0.00
2,00100	20.00	201.00	0070.03	-99.42	-696.56	703.62	0.00	0.00	0.00
8800.00	18.00	261.88	8693.63	-103.79	-727.15	734.52	0.00	0.00	0.00
8900.00	18.00	261.88	8788.74	-108.16	-757.74	765.42	0.00	0.00	0.00
9000.00	18.00	261.88	8883.84	-112.52	-788.33	796.32	0.00	0.00	0.00
9100.00	18.00	261.88	8978.95	-116.89	-818.92	827.22	0.00	0.00	0.00
9200.00	18.00	261.88	9074.06	-121.25	-849.52	858.12	0.00	0.00	0.00
				· - ·	· -	· 		- + • •	****

PRECISION DRILLING SERVICES

Client : MEWBOURNE OIL CO. Page : 2 of 2
Well Name : ESPERANZA 19-2 Date : 7/1/2004
Location : EDDY COUNTY, NM File : DRAFT D

KB Elevation: NA Gr Elevation: NA Vertical Section Calculated Along Azimuth 261.88°

MD	Inc	Azi	TVD	North	East	V'Sect	D'Leq	Build	Turn
ft	deg	deg	ft	ft	ft	£t	°/100		°/100
9300.00	18.00	261.88	9169.16	-125.62	-880.11	889.03	0.00	0.00	0.00
9400.00	18.00	261.88	9264.27	-129.99	-910.70	919.93	0.00	0.00	0.00
9500.00	18.00	261.88	9359.37	-134.35	-941.29	950.83	0.00	0.00	0.00
9600.00	18.00	261,88	9454.48	-138.72	-971.88	981.73	0.00	0.00	0.00
9700.00	18.00	261.88	9549.59	-143.09	-1002.47	1012.63	0.00	0.00	0.00
9800.00	18.00	261.88	9644.69	-147.45	-1033.06	1043.53	0.00	0.00	0.00
9900.00	18.00	261.88	973 9.8 0	-151.82	-1063.65	1074.43	0.00	0.00	0.00
10000.00	18.00	261.88	9834.90	-156.19	-1094.24	1105.33	0.00	0.00	0.00
10100.00	18.00	261.88	9930.01	-160.55	-1124.84	1136.24	0.00	0.00	0.00
10200.00	18.00	261.88	10025.11	-164.92	-1155.43	1167.14	0.00	0.00	0.00
					ኒ, 1980' ፮				
10278.74	18.00	261.88	10100.00	-168.36	-1179.51	1191.47	0.00	0.00	0.00
10300.00	18.00	261.88	10120.22	-169.29	-1186.02	1198.04	0.00	0.00	0.00
10400.00		261.88	10215.33	-173.65	-1216.61	1228.94	0.00	0.00	0.00
10500.00	18.00	261.88	10310.43	-178.02	-1247.20	1259.84	0.00	0.00	0.00
10600.00	18.00	261.88	10405.54	-182.38	-1277.79	1290.74	0.00	0.00	0.00
40200 00	10.00	. 5.64 . 65	40.500 64	106.00	44 4-	1000			
10700.00	18.00	261.88	10500.64	-186.75	-1308.38	1321.64	0.00	0.00	0.00
10800.00	18.00	261.88	10595.75	-191.12	-1338.97	1352.54	0.00	0.00	0.00
10900.00	18.00	261.88	10690.85	-195.48	-1369.57	1383.45	0.00	0.00	0.00
11000.00	18.00	261.88	10785.96	-199.85	-1400.16	1414.35	0.00	0.00	0.00
11100.00	18.00	261.88	10881.07	-204.22	-1430.75	1445.25	0.00	0.00	0.00
11200.00	18.00	261.88	10976.17	-208.58	-1461.34	1476.15	0.00	0.00	0.00
11300.00	18.00	261.88	11071.28	-212.95	-1491.93	1507.05	0.00	0.00	0.00
11400.00	18.00	261.88	11166.38	-217.32	-1522.52	1537.95	0.00	0.00	0.00
11400.00	10.00	201.00			L, 1626' E		0.00	0.00	0.00
11435.35	18.00	261.88	11200.00	-218.86	-1533.33	1548.87	0.00	0.00	0.00
11500.00	18.00	261.88	11261.49	-221.68	-1553,11	1568.85	0.00	0.00	0.00
11600.00	18.00	261.88	11356.60	-226.05	-1583.70	1599.75	0.00	0.00	0.00
11700.00	18.00	261.88	11451.70	-230.42	-1614.29	1630.66	0.00	0.00	0.00
11800.00	18.00	261.88	11546.81	-234.78	-1644.89	1661.56	0.00	0.00	0.00
	15,00	-01.00	22010.01	204.70	1014.07	2001.00	0.00	0.00	0.00
11900.00	18.00	261.88	11641.91	-239.15	-1675.48	1692.46	0.00	0.00	0.00
			Proposed I						
11961.08	18.00	261.88	11700.00	-241.81	-1694.16	1711.33	0.00	0.00	0.00

Bottom Hole Closure 1711.33ft Along Azimuth 261.88°

FAX TRANSMISSION

MEWBOURNE OIL PO BOX 5270 HOBBS, NM 88241 505-393-5905 FAX 505-397-6252

To: Brian	n Arrant	Date: 7/8/04
Fax: 74	8-1283	Pages:(plus cover) 3
From: Mickey		
Subject:E	spranza 19 # 2	