

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTSUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Manzano Oil Corporation

505/623-1996

## 3. ADDRESS AND TELEPHONE NO.

P. O. Box 2107

Roswell, NM 88202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1650' FSL &amp; 330' FWL

At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

44 miles NE of Carlsbad, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

## 16. NO. OF ACRES IN LEASE

520

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1682.7

## 19. PROPOSED DEPTH

3,950'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3659' GL

## 22. APPROX. DATE WORK WILL START\*

March 25, 1997

## 23.

## PROPOSED CASING AND CEMENT

## CAPITAN CONTROLLED WATER BASIN

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8" J-55	24.0#	1480'	Circ 800 s
7 7/8"	5 1/2" J-55	15.5#	3.950'	500 sx "C" back to 8 5/8"

## MUD PROGRAM:

0' - 1480': Fr/Wtr w/gel & lm:  
1480' - 3950': Brine mud w/gel

## MUD WT.

9.0 ppg  
10.0 ppg

## VIS.

29  
32

## W/L Control

No W/L control.  
W/L cont. 15cc.

## BOP PROGRAM:

A 10" 3000 psi wp Schaffer Type E double hydraulic BOP will be installed on the 8 5/8" casing. Casing and BOP will be tested before drilling out with 7 7/8". The BOP will be used as a 2000 psi wp system and will be tested daily.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*George P. Smith*

TITLE

Agent for:  
Manzano Oil Corp.

DATE

March 7, 1997

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

ORIG. SGD TONY L. FERGUSON

TITLE

ADM. MINERALS

DATE

3/28/97

\*See Instructions On Reverse Side



16			
	NM-56749 Manzano Oil Corp.		

**17 OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*George R. Smith*

Signature \_\_\_\_\_

George R. Smith, agent for: \_\_\_\_\_

Printed Name \_\_\_\_\_

Manzano Oil Corp. \_\_\_\_\_

Title \_\_\_\_\_

March 7, 1997 \_\_\_\_\_

Date \_\_\_\_\_

**17 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 supervision, and that the same is true and correct to the best of my belief.

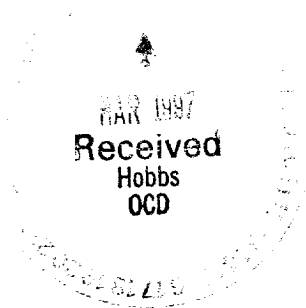
17 February 1997

Date of Survey \_\_\_\_\_

Signature and Seal of Professional Surveyor: \_\_\_\_\_

P.R. Patterson 8112

Certificate Number \_\_\_\_\_



## APPLICATION FOR DRILLING

MANZANO OIL CORPORATION  
Federal (USA) "L", Well No. 6  
1650' FSL & 330' FWL, Sec. 14-T19S-R33E  
Lea County, New Mexico  
Lease No.: NM-56749  
(Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Manzano Oil Corporation submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Rustler	1500'	Top Yates	3300'
Top/Salt	1600'	Top Seven Rivers Sand	3650'
Base/Salt	3100'	T. D.	3950'
Top Tansill	3100'		
3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Surface water between 100' - 350'.

Oil: Possible in the Seven Rivers below 3650'.

Gas: None expected.
4. Proposed Casing Program: See Form 3160-3.
5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
6. Mud Program: See Form 3160-3.
7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless warranted.

Logging: Gamma Ray/neutron: T.D. to surface.  
DLL-MSFL, CNL-LTD: T.D. to 8 5/8" Casing.

Coring: None planned.
9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 2000 psi with temperature of 100°.
10. H<sub>2</sub>S: None expected based on previously drilled wells.
11. Anticipated starting date: March 25, 1997.  
Anticipated completion of drilling operations: Approx. 3 weeks.



KEN REYNOLDS—PRESIDENT  
ARNIE NEWKIRK—VICE-PRESIDENT

DRILLING CO., INC. — OIL WELL DRILLING CONTRACTORS

P. O. BOX 1498 ROSWELL, NEW MEXICO 88203-1498  
806/623-8070 806/746-2719  
ROSWELL, NM ARTESIA, NM

## RIG #3

### BLOWOUT PREVENTOR ARRANGEMENT

2M SYSTEM

10" SHAFFER TYPE "E", 3000 psi WP

80 GALLON, 4 STATION KOOMEY ACCUMULATOR

3000 psi WP CHOKE MANIFOLD

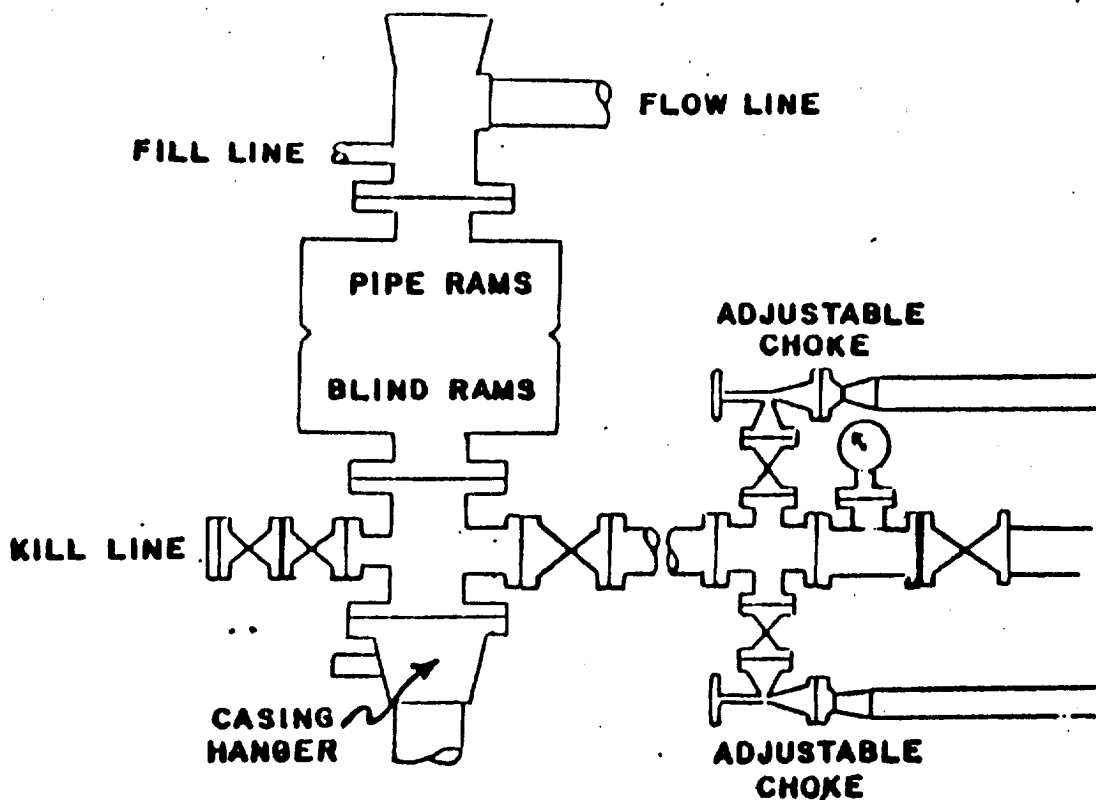


EXHIBIT "E"  
MANZANO OIL CORPORATION  
Federal (USA) "L", Well No. 6  
BOP Specifications

3  
MAR 1987  
Received  
Hobbs  
OCD

10/1/87