

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Manzano Oil Corporation

3. ADDRESS OF OPERATOR

P. O. Box 2107 Roswell, NM 88202

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

At surface

990' FSL & 1980' FEL

At proposed prod. zone

same

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

20 miles southeast of Maljamar, NM

15. DISTANCE FROM PROPOSED*

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

990'

16. NO. OF ACRES IN LEASE

560

17. NO. OF ACRES ASSIGNED

TO THIS WELL
240 (320)

18. DISTANCE FROM PROPOSED LOCATION*

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

1360.5'

19. PROPOSED DEPTH

13,600'

20. ROTARY OR CABLE TOOLS

Rotary

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

3826' GL

22. APPROX. DATE WORK WILL START*

September 10, 1988

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#	500'	500 sx CIC <u>circulated</u>
12 1/4"	8 5/8"	32.0#	5400'	2600 sx HL, CIC, CLC <u>circulated.</u>
7 7/8"	5 1/2"	17 & 20#	13,600'	1400 sx CIH

Mud Program:

		Wt.	VIS	Wtr/loss
0' - 500'	Fresh water, gel, lime	8.5- 9.0	28-36	NC
500' - 5400'	Brine, native mud, 3-5% oil	10.0-10.2	28-34	NC
5400' - 8500'	Fresh wtr w/ gel & polymer sweeps	8.4- 8.8	28-32	NC
8500' - 12400'	Cut brine w/pre-hyd gel + drispac	9.2- 9.6	32-36	15-30
12400' - TD	Pre-hyd gel, caustic, drispac, starch, KCL & barite as required	10.4-12.0	38-50	10-15

BOP Program:

A 3,000 psi Series 900 Shaffer double hydrqulic operated BOP will be used and tested daily. See Exhibit "E".

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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.

Agent for:

SIGNED

TITLE

Manzano Oil Corporation

DATE Aug. 17, 1988

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side