

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-54882
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Manzano Oil Corporation		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 2107 Roswell, NM 88202		8. FARM OR LEASE NAME Wynelle Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2310' FSL & 660' FEL At proposed prod. zone same		9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 33 miles southeast of Loco Hills, NM		10. FIELD AND POOL, OR WILDCAT Wildcat Gem Morrow
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 660'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15-T19S-R33E
16. NO. OF ACRES IN LEASE 320		12. COUNTY OR PARISH Lea
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		13. STATE New Mexico
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. none		20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3667' GL		22. APPROX. DATE WORK WILL START* Nov. 15, 1988

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 "C" <u>circulated</u>
12 1/4"	8 5/8"	32.0#	5,400'	2600 sx HL, C, <u>circulated</u>
7 7/8"	5 1/2"	17,20 & 23#	13,700'	1400 sx "H" w/ 50/50 poz

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 hydraulic operated BOP will be used and tested daily. See Exhibit "E".

Gas not dedicated.

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. SIGNED George Smith Agent for: Manzano Oil Corporation DATE October 21, 1988
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Sandra Porten TITLE CARLSBAD RESOURCE AREA DATE 11-14-88
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

RECEIVED

NOV 17 1988

U.S.
HOMES OFFICE