

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"/> Re-entry DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. NM-38645 |
| B. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input 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 571 Roswell, NM 88202 | | 8. FARM OR LEASE NAME Winn Federal |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1980' FNL & 660' FEL At proposed prod. zone same | | 9. WELL NO. 1 |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 miles southeast of Lovington, NM | | 10. FIELD AND POOL, OR WILDCAT Garrett - Drinkard |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660' | 16. NO. OF ACRES IN LEASE 80 | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29-T16S-R38E |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. none | 19. PROPOSED DEPTH 8400' | 12. COUNTY OR PARISH Lea |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3725' GR | | 13. STATE New Mexico |
| 20. ROTARY OR CABLE TOOLS Rotary workover rig | | 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 |
| 22. APPROX. DATE WORK WILL START* Sept. 10, 1989 | | |

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--|----------------------|----------------------------|---------------|--|
| Existing down-hole casing | 11 3/4" | 42# | 400' | 350 sx "H" |
| Note: 750 - 795' of 8 5/8" casing removed from hole as per New Casing: | 8 5/8" | 24 & 32# | 750' to 4505' | 375 sx "H" |
| A 10" sleeve on an: 8 5/8" 7 7/8" | 32# 4 1/2" or 5 1/2" | 750 to 795' 10.5# or 15.5# | 8400' | 10-16-73 Comp. Report. |
| | | | | Cement to surface 350 sx 50/50 poz to cover form. |

Well originally drilled by Green & Michaelson Prod. Co. 12/10/71, deepened in Sept., 1973 and plugged and abandoned in Oct. 1973. Plan to re-enter and test the Drinkard below 8157' after drilling out cement plugs at tops of: Surface, 340', 690' 5000', 6500', and 8190'.

Mud Program:

0' - 4505' Drill out cement plugs shown above.
4505' - 8400' Below the 8 5/8" casing will drill with fresh water and native mud to clean up hole and drill out additional plugs.

BOP Program: Will install and test daily a 2000# wp hydraulic BOP, which is more than adequate for the expected and known pressures.

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 August 8, 1989

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

Orig. Signed by Richard L. Menus

AREA MANAGER

APPROVED BY

TITLE CARLSBAD RESOURCE AREA

DATE 8-28-89

CONDITIONS OF APPROVAL, IF ANY:

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

*See Instructions On Reverse Side

APPLICATION FOR DRILLING
MANZANO OIL CORPORATION
Winn Federal, Well No. 1
1980' FNL & 660' FEL, Sec. 29-T16S-R38E
Lea County, New Mexico
Lease No.: NM-38645
(Development Re-entry 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 Anhyd. | 2065' | Paddock | 6490' |
| Yates | 3180' | Tubb | 7942' |
| San Andres | 5020' | Drinkard | 8157' |
| Glorieta | 6384' | T.D. | 8400' |

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Fresh water from 100 to 300 feet.

Oil or Gas: Possible in Drinkard below 8157'.

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 planned.

Logging: Surface to T.D.: Gamma Ray.

Coring: None.

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.
10. Anticipated starting date: September 10, 1989.
Anticipated completion of drilling operations: Approximately 2 weeks.

RECEIVED

AUG 29 1989

OCD
HOBBS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
Supersedes O-125
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

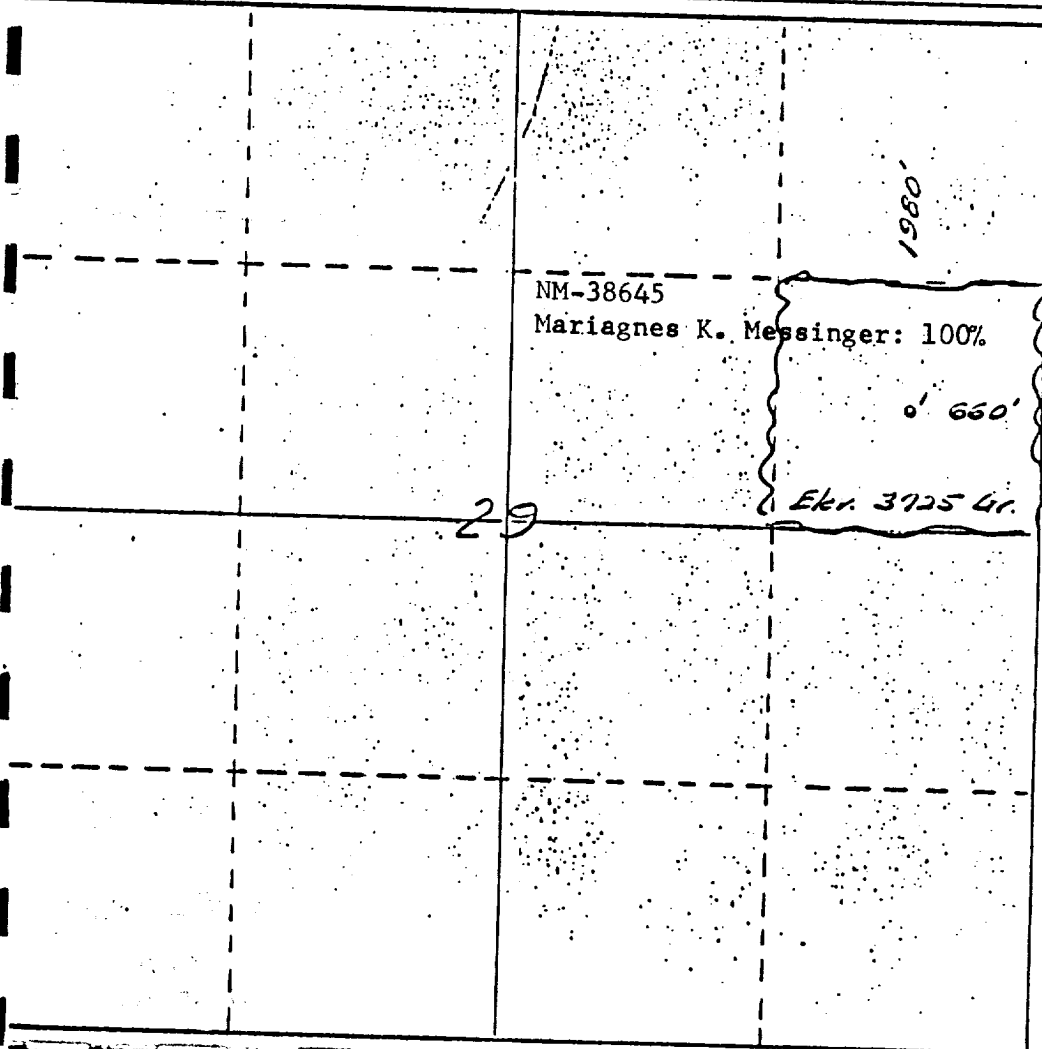
| | | | | | | |
|---|--|-----------------------------|---------------------------------------|------|--|----------------------|
| Operator Green & Michaelson Producing Co. | | | Lease Federal | | | Well No. 1 |
| Section 29 | Township 16S | Range 38E | County Lea | | | |
| General Feature Location of Well: | | | | | | |
| 1980 feet from the North | | 660 feet from the East | | Line | | |
| Well Level Elev. 3725 Gr. | Producing Formation Drinkard - PEARL | Pool Garrett W.C. | Dedicated Acreage: 40 Acres | | | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☒ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) United States all 160 acres

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Signature [Signature]
Position L. H. Michaelson
Vice President
Company Green & Michaelson Prod. Co.
Date 15, November 1971

I hereby certify that the well location shown on this plat was plotted from the notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

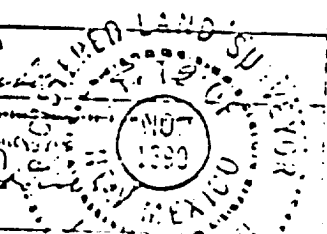
Date Surveyed

Registered Professional

Surveyor License No.

State of New Mexico

Surveyor



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AUG 29 1989

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