

APPLICATION FOR DRILLING
MANZANO OIL CORPORATION
Sunburst Spence Federal, Well No. 2
1980' FSL & 660' FWL, Sec. 13-T9S-R32E
Lea County, New Mexico
Lease No.: NM-56545
(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:

Yates	2300'	Abo Pay	8275'
San Andres	3560'	Wolfcamp	8310'
Glorieta	4940'	Cisco(Bough C)	8970'
Abo	7260'	T.D.	9100'

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

Water: Fresh water in the Triassic between 80 to 230 feet.

Gas: Casing head gas possible in the Abo.

Oil: Possible in the Abo at approximately - 8275'.
Possible in the Bough C below 8970'.

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: One possible in the Abo formation.

Logging: Surface to T.D.:	Gamma Ray.
Inter. Casing to T.D.:	DLL, CNL-FDC, MSFL

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: June 10, 1988.
Anticipated completion of drilling operations: Approximately 3 weeks.