

## APPLICATION FOR DRILLING

MANZANO OIL CORPORATION  
Radke Federal, Well No. 1  
660' FNL & 1650' FEL, Sec. 8-T21S-R27E  
Eddy County, New Mexico  
Lease No.: NM-56530  
(Exploratory Re-entry Well)

In conjunction with Form 9-331C, 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	402'
Del. Cherry Canyon	2650'
Bone Spring	4966'
T.D.	7600'
3. The estimated depths at which water, oil or gas formations are anticipated to encountered:

Water: None expected. Existing casing set to 2600.

Oil: Possible in Bone Spring below 7200'.

Gas: None expected.
4. Proposed Casing Program: See Form 9-331C.
5. Proposed Control Equipment: See Form 9-331C and Exhibit "E".
6. Mud Program: See Form 9-331C.
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: Intermediate Casing to T.D.: G/R Neutron.

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.
10. Anticipated starting date: October 26, 1987.

Anticipated completion of drilling operations: Approximately 15 days.