

Attachment to Form 9-331 C
Application for Permit to Drill

Tenneco Oil Company
Leonard Brothers #2, 1650' FSL & 990' FEL
of Section 13, T 26S, R 37E, Lease #NM-7951
Lea County, New Mexico

1. The geologic name of the surface formation is Oqallala Lime (Miocene).
2. The estimated tops of important geologic markers are shown on the attached Prognosis to Drill and Complete.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formation to be encountered are as follows:

Salado	1170'	Salt
Yates	2550'	Possible oil or gas
7 Rivers	2910'	Possible oil or gas
Queen	3400'	Oil and gas.
Penrose	3590'	Oil and gas.

4. The proposed casing program is as follows:

Surface - New 8-5/8" 24# K-55 set at 500'
Production - New 5½ 15.5# K-55 set at 3900'.

5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 500 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0' - 500' spud mud	8.5 - 9.0 pound per gallon
500' - TD brine gel	9.0 - 10.0 pound per gallon
7. The auxiliary equipment to be used is:

- (1) Kelly cocks
- (2) Floats at the bit
- (3) Stabbing valve to fit drill pipe will be present on floor at all times.

8. It is proposed to run DLL-GR, CNL-FDC-GR-caliper and BHC sonic logs.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is December 6, 1976, with a duration date of approximately ten days.

RECEIVED

JAN 20 1977

OIL CONSERVATION COMM.
HOBBS, N. M.