APPLICATION TO DRILL

Liberty Oil & Gas Lee Federal No. 1 2310' FSL & 660' FWL Sec. 25, T2OS, R28E Eddy County, N.M.

NM-17103

The following items supplement Form 9-33lC in accordance with instructions contained in NTL-6:

- 1. Geologic Name of Surface Formation: Aeolian
- 2. <u>Drilling Tools and Associated Equipment</u>: Conventional rotary drilling tools using mud for the circulation medium.
- 3. Proposed Drilling Depth: 5700'
- 4. Estimated Geological Marker Tops:

Rustler	195	Queen	1450'
Salt	3851	Grayberg	1950'
Tansill	475	San Andres	25821
Yates	641'	Delaware	2710'
7 Rivers	1117'	Bone Springs	51421

- 5. Mineral Bearing Formation: Oil bearing at 5400'.
- 6. Casing Program:
 - 8 5/8" Casing Set 350' of 8 5/8", 24#, ST&C casing. Cement to surface using 300 sx Class 'C' cement with 2% CaCl.
 - 4 1/2" Casing Set 4 1/2", 10.5#, ST&C casing to total depth.

 Cement to cover pay zone with 400 sx Class 'C'

 cement with 2% CaCl.
- 7. Pressure Control Equipment: Blowout preventer will consist of double-ram preventer rated to 300 psi WP. BOP sketch is attached.
- 8. Proposed Circulation Medium:

0-350' Fresh water spud mud.

350-5400' Brine water: add paper if needed for seepage.

5400-TD. Salt mud; 32-34 viscosity; water loss 20 cc or less.