

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

Continental Oil Company, Warren Unit No. 46  
660' FSL and 1800' FEL of Section 21, T-20S, R-38E  
Lea County, New Mexico

1. The geologic name of the surface formation is Tertiary Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are as follows:  
  
Santa Rosa SS 300' water  
Salado 1550' salt  
Blinebry 5920' oil  
Tubb 6440' oil
4. The proposed casing program is as follows:  
  
Surface - new 9 5/8" 32.30# K-55 STC set at 1500'  
Production - new 7" 23# and 26# K-55 STC set at 7050'
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 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:  
  
0-1500' spud mud                      8.5-9.0 pounds per gallon  
1500'-7050' salt gel                9.0-10.0 pounds per gallon
7. The auxiliary equipment to be used is:  
  
(1) kelly cocks  
(2) floats at the bit
8. It is proposed to run GR-CNL-FDC-DLL logs from TD to 2600'.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is April 19, 1977, with a duration date of approximately 21 days.