

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

Continental Oil Company, Vaughn A-12 No. 2
660' FNL and 560' FWL of Section 12, T-24S, R-36E
Lea County, New Mexico

1. The geologic name of the surface formation is Quaternary 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:

Water Sand 400'	Yates 2970' SS
Rustler 1170' anhy.	Seven Rivers 3170' dolo.
Salado 1270' salt	Queen 3590' SS
Tansill 2820' dolo.	
4. The proposed casing program is as follows:

Surface - new 8 5/8", 24#, K-55 STC set at 1220'
Production - new 5 1/2", 14#, K-55 STC set at 3700'
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:

0-1220' spud mud	8.5-9.0 pounds per gallon
1220'-3700' 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 2900'.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for this well is June 24, 1977, with a duration date of approximately 7 days.