

ATTACHMENT TO FORM 9-331 C  
APPLICATION FOR PERMIT TO DRILL

Conoco Inc.  
Barbara Federal No. 8 - NM-16441  
Section 18, T19S, R25E  
Eddy County, New Mexico

1. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan Outline.
2. The estimated depths at which anticipated water, oil, gas or other mineral-bearing formations to be encountered are shown on the attached Proposed Well Plan Outline.
3. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to the working pressure of the stack of 70% of the minimum internal yield strength of the casing whichever is less. BOPD will be checked when casing string is set.
4. The proposed casing program is as follows:  
  
0'-1200' - 9-5/8", 36#, K-55  
0'-8100' - 7", 26#, K-55
5. The proposed mud program is as follows:  
  
0'-1200' - 8.33 Fresh gel & lime  
1200'-8100' - 8.33-8.5 Fresh water
6. Run open-hole logs from 3000'-8100'. The log suite will include the following: 1) GR-DLL-MSFL-CAL, 2) GR-CNL-LDT-CAL. A temperature survey will be run to determine the top of cement on each casing string where cement is not circulated.
7. Possible lost circulation zones 250'-1000'. Deviations from 4°-6° likely from 3000'-6000'. H<sub>2</sub>S possible from Cisco.
8. The anticipated starting date is December 1, 1988 with a duration of approximately 25 days.