

**ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL**

Conoco Inc.

**Barbara Federal No. 16
Sec. 18, T-19S, R-25E
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 Blowout Preventer Specifications is attached. Pipe rams and blinds will be checked to the working pressure of the stack or 70% of the minimum internal yield strength of the casing whichever is less. BOPE will be checked when casing string is set.
4. The proposed casing program is as follows:

0-1200'	9-5/8"	36#	LT&C
0-8100'	7"	26#	LT&C
5. The proposed mud program is as follows:

0-2000':	8.4# Fresh Water
2000-7600':	8.8-9.2# C/Brine
7600-8100':	9.2# C/Brine Starch
6. Run open-hole logs from 8100'-1200'. The log suite will include the following:
1) GR-CAL-DLL-MSFL, 2) GR-CAL-CNL-LDT, 3) CBIL. A temperature survey will be run to determine the top of cement on each casing string where cement is not circulated.
7. Special Drilling Problems:
 - a) Possible water flows at approximately 2,000'.
 - b) Possible deviation 4500'-5500'.
8. The anticipated starting date is 4-19-93 with a duration of approximately 18 days.