

ATTACHMENT TO FORM 3160-3
APPLICATION FOR PERMIT TO DRILL

Conoco Inc.

Warren Unit No. 105
Sec. 27, T-20S, R-38E
Lea 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:
0-1500': 9-5/8", 36# K-55
1500'-6900': 7", 26# K-55
5. The proposed mud program is as follows:
0-1500': 8.4-8.6# Fresh Water
1500'-5800': 10.0# Brine
5800'-6900': 10.0# Salt Gel/Starch
6. Run open-hole logs from 2500'-6900'. The log suite will include the following:
1) GR-CAL-DLL-MSFL, 2) GR-CAL-FDC-CNL-PE. 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 hole enlargement & sloughing, 0'-4500'.
 - b) Possible lost circulation 4500'-TD.
8. The anticipated starting date is 7-20-91 with a duration of approximately 17 days.