

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

Conoco Inc.
Barbara Federal No. 8 - NM-1372
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", 32#, K-55
0'-8100': 7", 26#, K-55
5. The proposed mud program is as follows:

0'-1200': 8.33 Fresh gel & lime
1200'-7500': 8.8 - 9.2 Cut Brine
7500'-8100': 8.3 - 9.0 Salt Gel & Starch
6. Run open-hole logs from 5000'-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 waterflow to 900'. Known lost circulation from 0'-1100'. H₂S possible from 2000' to TD. Deviations from 4°-6° likely from 3000'-6000'.
8. The anticipated starting date is May 1, 1988 with a duration of approximately 25 days.

SURFACE USE PLAN
Conoco Inc.
Barbara Federal No. 8 - NM-1372
Section 18-T19S-R25E
Eddy County, New Mexico

The following is the required information concerning the possible effect which the proposed drilling of this well may have on the environment, existing road sites, and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 710' FSL & 990' FEL of Section 18, T19S, R25E, Eddy County, New Mexico.
- B. Exhibit "A" is a vicinity map showing existing roads. Directions to the location are as follows: From Artesia go south 12.7 miles on Hwy. #285 (mile marker #56). Turn west on Eddy County Rd #21. Go 6.9 miles. Turn north 1/4 mile. Turn west 1/4 mile.
- C. Access roads are shown on Exhibit "B".
- D. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. New access roads will be required.
- B. No turnouts are required.
- C. No culverts, or fills will be required.
- D. No gates, cattleguards, or fences will be required.

3. Location of Existing Wells

See Exhibit "B"

4. Location of Existing and/or Proposed Facilities if Well is Productive

A new flowline of 2511' will be required with the portion of this flowline in Section 19 being on private surface. This well's production will go to the Lodewick A No. 1 located in Unit C, Section 19, T19S, R25E. A powerline of 1374.3' will also be required.

5. Water Supply

Water will be trucked in.