

APPLICATION FOR DRILLING
THE SUPERIOR OIL COMPANY
MEANDER FEDERAL WELL NO. 1

EDDY COUNTY, NEW MEXICO

In conjunction with form 9-331C, application for permit to drill subject well, The Superior Oil Company submits the following items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is Permian.
2. The estimated tops of geological markers are as follows:

<u>Ochoan</u>	<u>Surface</u>
Delaware Mt Group	1,400'
Bone Spring	5,000'
Wolfcamp	8,100'
Pennsylvania	9,900'
Atoka	10,250'
Morrow	11,150'

3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water: Less than 500'
Capitan Reef above 1,400'

Gas: Atoka-Morrow: 10,250-11,700'

4. Proposed casing program: See form 9-331C and Exhibit "F".
5. Pressure control equipment: See form 9-331C and Exhibit "E".
6. Mud Program: See Exhibit "G".
7. Auxiliary equipment: See Exhibit "H".
8. Testing, Logging, and Coring Programs:
Drill Stem Tests: (All DST's to be justified by a
valid show of oil or gas):

Morrow 11,250'

Logging:

Mud logging unit from 1,500' - T.D.

Electric Log Program:

GR - BHC

FDC - CNL

DLL - MSFL

9. Abnormal pressure is anticipated in the Atoka 10,250-11,150'.
No abnormal temperature.
10. Anticipated Starting Date: July 1, 1979.