

APPLICATION FOR DRILLING

SUPERIOR OIL
BONDURANT FEDERAL WELL #1
1980' FSL & 660' FEL OF SEC. 1 T19S R32E
LEA COUNTY, NEW MEXICO

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Superior Oil submits the following items of pertinent information in accordance with USGS requirements:

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

Delware	5210
Bone Spring	7450
Wolfcamp	10750
Strawn	12140
Atoka	12570
Morrow	13050
3. The estimate depths at which anticipated water, oil or gas formations are expected to be encountered:

Water:	Approximately 300' to 500'
Gas:	Morrow 13,050'
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:
 - A. Drill stem tests in Wolfcamp & Pennsylvanian near TD (All DST's to be justified by a valid show of oil or gas):

Wolfcamp:	11,100'
Pennsylvanian:	13,300' \pm
 - B. Logging:

Mud logging unit from 5200' \pm to TD	
Electric log program:	500' - 5200' \pm GR-FDC, CNL, SONIC 5200' \pm - 13900' TD FDC-CNL, GR-BHC & DLL-MSFL
9. No abnormal pressure is anticipated. No abnormal temperature.
10. Anticipated starting date: January 30, 1980.