

APPLICATION FOR DRILLING

Mark D. Wilson
Rocky Arroyo Federal 4 No. 1
Section 4-T22S-R22E
Eddy County, New Mexico

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FEB 21 1979

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Mark D. Wilson submits the following items of pertinent information:

1. The geologic surface formation is the San Andres formation with a cover of alluvium.
2. The estimated tops of geologic markers are as follows:

Glorieta Ss.	1650'
Yeso Fm.	1750'
Bone Spring Ls.	3100'
3rd Bone Spring Sh.	4450'
Wolfcamp	4615'
Wolfcamp "Reef"	5186'
B. Wolfcamp "Reef"	6000'
TD	6325'

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

Water: Lost circulation from the surface to 1650 feet. Position of water table not known.
Formation water 3100'-3500' and 5660' to 6000'.
Oil: Glorieta-Yeso Fm. 1650' - 1950'.
Gas: Wolfcamp "Reef" 5466' - 5660'.

4. Proposed casing program: See Form 9-331C.
5. Pressure control equipment: See Exhibit B.
6. Mud program: See Form 9-331C.
7. Auxiliary equipment: Blowout Preventer, Inside Blowout Preventer, Kelley Cock.
8. Testing, logging and coring programs: No coring. Drill Stem Tests as warranted. Logs: CNL-FDC; DIL. Mud logging unit will be at the location from intermediate casing to TD.
9. No abnormally high pressures or temperatures are anticipated. Lost circulation is anticipated from the surface to intermediate casing point.
10. Anticipated starting date: March 10, 1979 or sooner if possible.