

Attachment to "Application for Permit to Drill", Form 9-331 C

Federal CC No. 1
1980' FSL & 990' FEL, Sec. 4, T-19-S, R-24-E
Eddy County, New Mexico

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Quaternary

4. Type of drilling tools and associated equipment to be utilized.

See Form 9-331 C

5. Proposed drilling depth.

See Form 9-331 C

6. Estimated tops of important geologic markers.

Tubb	3200'	Strawn	7700'
Abo	3900'	Atoka	8250'
Wolfcamp	5350'	Middle Morrow	8470'
Cisco	6800'	Mississippian	8700'

7. Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected to be encountered.

Cisco	6800'	Middle Morrow	8470'
Strawn	7700'		
Atoka	8250'		

8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>New or Used</u>
400'	13 3/8"	51#	K-55	New
2000'	9 5/8"	36#	K-55	New
9000'	5 1/2"	17#, 20#	K-55, N-80	New

9. Proposed cementing program.

13 3/8"	Circulate to surface
9 5/8"	Circulate to surface
5 1/2"	Cement to 300' above Cisco (approx. 6300')