

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

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Permian

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.

Delaware	2580'	Strawn	11,170'
Bone Springs	6060'	Atoka	11,325'
Wolfcamp	9920'		

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

Atoka 11,325'

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'	16"	65#	H-40	New
2700'	10-3/4"	40.5#	K-55	New
10000'	7-5/8"	33.7#	S-95	New
9500'-11600'	4-1/2"	13.5#	S-95	New

9. Proposed cementing program.

16"-	Circulate to surface.
10-3/4"	Tie back to 16" casing.
7-5/8"	500' above Bone Springs (approx. 5560')
4-1/2"	Tie back to 7-5/8" casing.