

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

Federal AE #1
1650' FSL & 1980' FEL, Sec. 20, T-22-S, R-28-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.

Delaware	2650'	Strawn	11045'	Lower Morrow	12285'
Bone Springs	7350'	Atoka	11225'		
Wolfcamp	9600'	Middle Morrow	11980'		

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

Delaware	2650'	Strawn	11045'
Bone Springs	7350'	Atoka	11225'
Wolfcamp	9600'		

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"	45.5#	K-55	New
10900'	7-5/8"	26.4#	K-55	New
10,700'-12700'	4-1/2" Liner	9-1/2#	K-55	New

9. Proposed cementing program.

16"	Circulate to Surf
10-3/4"	Circulate to Surf
7-5/8"	Tie back to 10-3/4"
4-1/2"	Tie back to 7-5/8"