

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

Federal BM #1
1980' FNL X 1980' FWL, Sec. 25, T-24-S R-32-E
Lea County, NM

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	4900'	Strawn	14000'	Barnett	16000'
Bone Springs	9000'	Atoka	14200'		
Wolfcamp	12300'	Mid Morrow	15200'		

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

Delaware	4900'	Atoka	14200'
Bone Springs	9000'	Morrow	15200'
Wolfcamp	12300'		

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>
700'	16"	65#	H-40	New
4900'	10-3/4"	45.5#	K-55	New
12300'	7-5/8"	26.4#	K-55	New
11800'-16000'	4-1/2"	9.5#	K-55	New

9. Proposed cementing program.

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