

Attachment to "Application for Permit to Drill", Form 9-331 C  
Federal BT Gas Com. #1

1980' FSL & 1980' FEL, Sec. 15  
T-20-S, R-35-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 Sand	5820'	Strawn	12130'	Barnett	13370'
Bone Springs	7920'	Atoka	12345'		
Wolfcamp	11400'	Morrow	12950'		

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

Morrow 12950'

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

Depth	Size	Weight	Grade	New or Used
400'	16"	65#	H-40	New
4300'	10-3/4"	40.5#	K-55	New
11600'	7-5/8"	26.4#	K-55	New
13500'	4-1/2"	13.5#	P-110	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"