

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

Federal AD Com. No. 1  
1690' FWL & 1980' FNL, Sec. 3, T-23-S, R-28-E  
Eddy County, New Mexico  
Amoco Production Company

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	2543'	Strawn	11123'	Barnett Shale	12768'
Bone Springs	6248'	Atoka	11318'		
Third Bone Springs	9170'	Middle Morrow	12153'		
Wolfcamp	9740'	Lower Morrow	12478'		

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

Delaware	2543'	Atoka	11318'
Bone Springs	6248'	M. Morrow	12153'
Strawn	11123'	Lower Morrow	12478'

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
9800'	7-5/8"	39#	N-80	New
9300'-12900'	4-1/2"	13.5#	N-80	New

9. Proposed cementing program.

16"	Circulate to surface
10-3/4"	Circulate to surface
7-5/8"	Cement to 500' above Bone Springs (Approx. 5748')
4-1/2"	Circulate at 9300'