

Attachment to "Application for Permit to Drill", Form 9-331 C  
FEDERAL AA WELL NO. 1

1980' FNL & 1980' FWL, Sec 17, T-22-S R-26-E, Eddy County, NM

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	2,700'	Wolfcamp	8,600'
Bone Springs	5,000'	Strawn	10,200'
3rd Bone Springs	8,200'	Atoka	10,700'
		Middle Morrow	11,200'

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

Middle Morrow 11,200'

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'	13 3/8"	48#	K-55 ST & C	New
2,300'	9 5/8"	36#	K-55 ST & C	New
11,700'	5 1/2"	17-20#	K-55 ST & C	New

9. Proposed cementing program.

13 3/8" casing - Sufficient cement to circulate to surface.

9 5/8" casing - Sufficient cement to circulate to surface.

5 1/2" casing - Sufficient cement to tie back to 9 5/8" casing.