

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

Federal AC #1 660' FNL & 1980' FEL Sec. 18
T-19-S, R-33-E, Lea County, NM

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Ogalalla

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.

Yates 2640'	Bone Springs 7580'	Miss 13700'
Queen 4200'	Wolfcamp 10810'	
Delaware 5580'	Mid Morrow 13000'	

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

Delaware 5580'	Mid Morrow 13000'
Wolfcamp 10810'	

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>
450'	13-3/8"	54.5#	K-55	New
5000'	9-5/8"	40#	K-55	New
13700'	5-1/2"	17# & 20#	N-80 & K-55	New

9. Proposed cementing program.

13-3/8"	Circulate to surface
9-5/8"	Circulate to Surface
5-1/2"	Tie back to 9-5/8"