

Attachment to "Application for Permit to Drill" Form 9-331 C
Nellis Federal Well No. 2, Unit 0, 660' FSL and 1980' FEL, Section 6,
T-19-S, R-33-E, Lea County, New Mexico.

1. Location

See Attached Form C-102

2. Elevation

See Attached Form C-102

3. Geologic name of surface formation.

Unknown

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	- 5,200'	Strawn	- 12,150'
Bone Springs	- 7,640'	Atoka	- 12,520'
3rd Bone Springs	- 10,440'	Morrow	- 13,200'
Wolfcamp	- 10,860'		

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

Morrow - 13,200'

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
5,000'	9-5/8"	32.3-36#	K-55 ST&C	New
13,700'	5-1/2"	15.5#	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.

10. Blow Out Preventer Program is Attached
11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.
 - 0' - 400' - Native mud and water.
 - 400' - 5,000' - Brine water and minimum properties to maintain good hole conditions.
 - 5,000' - 12,400' - Fresh water, brine water, and minimum commercial products.
 - 12,400' - TD - Fresh water, brine water, minimum commercial products, and KCL for a 3-4% system
12. Testing, logging and coring programs to be followed with provisions made for required flexibility.
 - 400' - TD - Gamma Ray
 - 5,000' - TD - GR-CNL-FDC-Caliper
 - 5,000' - TD - Dual Laterolog-Micro SFL
13. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards.

None anticipated.
14. Anticipated starting date and duration of operation.

Start December 30, 1977.. Complete February 13, 1978.
15. Other facets of the proposed operation, operator wishes to point out for the Geological Survey's consideration of the application.

None