

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

Langlie "B" Federal Well No. 3
Unit E, 2130' FNL X 400' FWL, Sec. 15, T-25-S, R-37-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.

Rustler - 1050' Queen - 3350'
Yates - 2670'

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

Queen - 3350'

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>
1100'	8-5/8"	32#	K-55	New
3700'	5-1/2"	15.5#, 17#	K-55	New

9. Proposed cementing program.

8-5/8" csg - Circulate to surface.
5-1/2" csg - Circulate to surface

10. Blowout 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.

Surf. to 1100' - Native mud and fresh water

1100' to 3700' - Commercial mud and brine water to maintain good hole conditions

12. Testing, logging and coring programs to be followed with provisions made for required flexibility.

CNL, FDC, GR W/caliper - Surf to TD

DLL W/Micro SFL - Surf to TD

13. Any anticipated abnormal pressure 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 5/10/78. Complete 5/22/78.

15. Other facets of the proposed operation operator wishes to point out for the Geological Survey's consideration of the application.

None