

To supplement USGS Form 9-331C "Application for Permit to Drill, Deepen or Plugback", the following additional information is submitted to comply with USGS Order NTL-6.

Operator: Atlantic Richfield Company  
Lease & Well No: Langley Deep Unit #1  
Location: Unit Letter C, Section 28-22S-36E, Lea County, New Mexico  
Lease, New Mexico LC-030133-B  
Exploratory Well in shallow developed area

1. The geologic name of the surface formation is: Ouapernary Alluvium

2. The estimated tops of important geologic markers are:

Anhydrite	1340'	Abo	8000'	Woodford	11800'
Yates	3175'	Wolfcamp	9090'	Devonian	12100'
Grayburg	4020'	Penn	9280'	Fusselman	13400'
San Andres	4600'	Atoka	9950'	Montoya	13925'
Glorieta	6020'	Barnett	10900'	Simpson	14325'
		Miss Lime	11350'	Ellenburger	15125'

3. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

80 - 200'	Surface water sand, thickness of sand varies after 200'
Devonian	12,100 - 12,800'
Fusselman	13,400 - 13,950'
Ellenburger	15,125 - 15,500'

4. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 9-331C. All strings of casing will be new.

5. The pressure control diagram is attached to Form 9-331C. The following additional information of the pressure control equipment is as follows:

13-3/8" Csg : Size: 13-3/8" - SRR  
Pressure Ratings: 3000 WP, 6000 T  
Testing Procedure: 2000 PSIG when installed  
Testing Frequency: Operational test daily and on all trips.

9-5/8" Csg: Size: 11" - SRRA  
Pressure Ratings: 5000 WP, 10,000 T  
Testing Procedure: 5000 PSIG when installed  
Testing Frequency: Operational test daily and on all trips.