

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: ARCO OIL & GAS COMPANY, Division of  
Atlantic Richfield Company  
Lease & Well No: Pure Federal #2  
Location: Unit Letter P  
Section 11-21S-25E, Eddy County, N.M.  
Lease, New Mexico 070409  
Development well x Exploratory well \_\_\_\_\_

1. See Well Location and Acreage Dedication Plat Form C-102.
2. See Form 9-331C for elevation above sea level of unprepared location.
3. The geologic name of the surface formation is: Intergrades of the Lithic Calciustoll subgroup.
4. The type of drilling tools and associated equipment to be utilized will be: Rotary.
5. The proposed drilling depth will be 10,500'.
6. The estimated tops of important geologic markers are:

Wolfcamp	7175'	Atoka	9775'
Cisco	8425'	Morrow	10000'
Strawn	9275'		
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Water	300'
Gas	8425' Cisco
Gas	10000' Morrow
8. 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 x Used \_\_\_\_\_.
9. See Form 9-331C for amount of cmt.

The 13-3/8" OD csg will be cmt'd w/1000 sx RF cmt cont'g 1/4# flocele & 12# Gilsonite per sk followed by 150 sx C1 C cmt w/2% CaCl. The 8-5/8" OD intermediate csg will be cmt'd with 1350 sx RF cmt w/1/4# flocele/sk & 10# Gilsonite followed by 150 sx C1 C cmt w/2% CaCl. The 5 1/2" OD casing will be cmt'd in 2 stages. 1st stage 750 sx C1 H w/.2 of 1% retarder, .4 gal/sk FL additive, 2% friction reducer. 2nd stage cmt'd w/1450 sx 50/50 Lite Poz-3 w/5# gilsonite/sk, 2/10 of 1% D-65 turb reducer, 3#/sk KCL.