

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 and Gas Company - Division of Atlantic Richfield Company

Lease & Well No: Jackson Federal #1

Location: Unit Letter "C"

Section 35-17S-29E

Eddy County, New Mexico

Lease, New Mexico LC-028775

Development well _____ Exploratory well X

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: Torripsammit Sub-group
4. The type of drilling tools and associated equipment to be utilized will be: Rotary
5. The proposed drilling depth will be 11,350' .
6. The estimated tops of important geologic markers are:

Anhydrite	300'	Yates	1000'	Wolfcamp	7510'	Atoka	10,450'
Salt	445'	Grbg	2400'	Cisco	9230'	Morrow	10,850'
Base Salt	800'	Glor.	4200'	Canyon	9730'	Miss.	11,200'
		Abo	6320'	Strawn	10,170'		
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

Water	125-275'				
Oil - Grayburg	2400'	Cisco	9230'	Atoka	10,450'
San Andres	2900'	Canyon	9730'	Morrow	10,850'
Wolfcamp	7510'	Strawn	10,170'		
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 cement.

Surface - 13-3/8" OD 54.5# csg will be cmt'd w/C1 C cmt cont'g 1/4#/sk flocele followed by C1 C cmt cont'g 2% CaCl₂.

Intermediate - 8-5/8" OD 28# csg will be cmt'd w/C1 H Neat cont'g 1/4#/sk flocele followed by C1 H Neat cont'g 2% CaCl₂.

Production - 5 1/2" OD 17# csg will be cmt'd w/C1 H cmt cont'g .2 of 1% retarder, .4 gals/sk FL additive, 2% friction red & 50/50 Lite Poz 3 w/5# Gilsonite/sk, 2/10 of 1% D-65 turb reducer & 3#/sk KCL.