

APPLICATION FOR DRILLING  
MESA PETROLEUM CO  
WILLIS FEDERAL COM #1  
EDDY COUNTY, NEW MEXICO

In conjunction with permitting subject well for drilling Section 28, Township 17 South, Range 27 East, Eddy County, New Mexico, Mesa Petroleum Co submits the following:

1. The geologic surface formation series is Permian Guadalupian.
2. The estimated tops of geologic markers are as follows:

Queen	620'
San Andres	1450'
Glorietta	2740'
Yeso	3010'
Tubb	4270'
Abo	4920'
Wolfcamp	6180'
Cisco	7820'
Canyon	7935'
Strawn	8560'
Atoka	8920'
Morrow	9150'
Mississippian Lime	9440'

3. The depth at which water, oil, or gas are expected is:

620'	Water - Queen
1450'	Water - San Andres
3010'	Oil - Yeso
8920'	Gas - Atoka
9150'	Gas - Morrow

4. Casing and Blowout Preventer Program:

Surface: 300' of 13-3/8" 48# H-40 ST&C new casing cemented with 350 sacks or sufficient to circulate cement to surface. Will nipple up 12" API 3000 WP bradenhead and install 12" API 3000 psi WP BOP stack (consisting of 1 pipe ram, 1 blind ram, and 1 bag type BOP) to drill 11" intermediate hole.

Intermediate: 1700' of 8-5/8" 24# K-55 new casing cemented with 800 sacks so as to circulate cement to the surface. Will install 12" API 3000 x 10" API 3000 psi WP casinghead spool and nipple up 12" API 3000 psi WP BOP stack (consisting of 1 pipe ram, 1 blind ram, and 1 bag type BOP) to drill 7-7/8" hole to total depth.

Prod: 9500' of 4-1/2" 10.5 & 11.6# K-55 & N-80 to total depth. Casing will be cemented with 1400 sacks or sufficient volume to cover all pay intervals.