

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

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

1. The geologic surface formation is Permian Guadalupian.

2. The estimated tops of geologic markers are as follows:

Queen	666'
San Andres	1416'
Glorietta	2716'
Yeso	2926'
Tubb	4166'
Abo	4866'
Wolfcamp	6086'
Cisco Pay Zone	7741'
Canyon Carbonate	7866'
Strawn	8576'
Atoka	8896'
Morrow	9136'
Mississippian	9316'
Mississippian Lime	9436'

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

666'	Water - Queen
1416'	Water - San Andres.
2926'	Oil - Yeso
7741'	Gas - Cisco Pay Zone
8950'	Gas - Atoka
9200'	Gas - Morrow

4. Casing, Cement, and Blowout Preventer Program:

Surface: 300' of 13-3/8" 48# H-40 new casing cemented with 350 sacks or sufficient amount to circulate cement to surface. Will nipple up 12" API 3000 psi WP bradenhead and 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 or sufficient amount to circulate cement to surface. Will nipple up 12" API 3000 psi x 10" API 3000 psi WP casinghead spool and 12" API 3000 psi WP BOP stack (consisting of 1 pipe ram, 1 blind ram, and 1 bag type BOP). Drill 7-7/8" hole total depth.

Production: 9500' of 4 1/2" 10.5 & 11.6# K-55 new casing cemented with 600 sacks or sufficient volume to cover all pay intervals.