

APPLICATION FOR DRILLING  
MESA PETROLEUM CO.  
YATES FEDERAL COM #1-Y  
EDDY COUNTY, NEW MEXICO

In conjunction with permitting subject well for drilling Section 20, 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	625'
San Andres	1350'
Glorietta	2660'
Tubb	4090'
Abo	4790'
Wolfcamp	6025'
Canyon	7810'
Strawn	8420'
Morrow	8910'
Chester	9410'

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

625'	Water-Queen
1350'	Water-San Andres
2850'	Oil - Yeso
8700'	Gas - Atoka
9000'	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.