

APPLICATION FOR DRILLING

Mesa Petroleum Co.
Williamson Federal Com. Well No. 1
Section 12-T16S-R27E
Eddy County, New Mexico

In conjunction with Form 9-3316, Application for Permit to Drill subject well in Section 12, Township 16 South, Range 27 East, Eddy County, New Mexico, Mesa Petroleum Co. submits the following items of pertinent information in accordance with UCGS requirements:

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

Queen	860'
San Andres	1580'
Glorieta	2952'
Tubb	4310'
Abo	5051'
Wolfcamp	6274'
Wolfcamp Pursum	7004'
Cisco-Canyon	7350'
Strawn	8180'
Atoka	8569'
Morrow	8715'
T/Miss Chester Sh.	8827'
Miss Chester Ln.	8969'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered are:

Water - at approximately 2900', 2400', and 1810'
Gas and water - Cisco-Canyon at approximately 7200' to 8180'
Gas - Lower Perm at approximately 8450' to 8700'
Gas - Atoka-Morrow at approximately 8650'

4. Casing and Blowout Preventer Program:

Surface: 350' of 13-3/8" 48# H-40 ST&C new casing cemented with 400 sx Class "H" with $\frac{3}{4}$ " floccle and 2# cc or sufficient volume to circulate cement to surface. Will install 12" API 3000 psi WP bradenhead and nipple up 12" API 3000 WP ram type BOPs to drill 11" intermediate hole.

Intermediate: 1700' of 9-5/8" 24# K-55 ST&C new casing cemented with 700 sx IM with 5# gilsonite, $\frac{3}{4}$ " floccle and 2# cc followed by 200 sx Class "C" with 2# cc or sufficient volume to circulate cement to bottom of surface casing. Will nipple up 12" API 3000 WP x 10" API 3000 WP casinghead spool and