APPLICATION FOR DRILLING MESA PETROLEUM CO DEPCO FEDERAL #1 2160' FNL & 1980' FWL Sec 4, T16S, R28E LEASE: NM-18831 February 25, 1980

In conjunction with permitting subject well for drilling in Section 4, Township 16 South, Range 28 East, Eddy County, New Mexico, Mesa Petroleum Co submits the following:

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

990
1750
2935
4465
5245
6480
7390
8450
8750
8970
9165
9265
e 9395

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

Water	3008
Water	3508
Water	4518
Gas & Water	7648
Gas - Lower Penn	8458
Gas - Lower Penn	8758
Gas – Morrow	8978

4. Casing and Blowout Preventer Program:

Surface: 350' of 13-3/8" 48#, H40, ST&C, new casing cemented with 400 sx Class "H" with 1/4# flocele and 2% CaCl or sufficient volume to circulate cement to surface. Will install 12" API 3000 psi WP bradenhead and nipple up 10" API 3000 WP ram type BOPs to drill 11" intermediate hole.

Intermediate: 1900' of 8-5/8" 24#, K55, ST&C, new casing cemented with 200
sx thick-set plus 825 sx LW with 5# gilsonite, 1/4# flocele
and 2% CaCl followed by 200 sx Class "C" with 2% CaCl 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 install 10" API 3000 psi WP BOP stack
(consisting of 1 pipe ram, 1 blind ram, 1 bag type BOP) to
drill 7-7/8" production hole.