

APPLICATION FOR DRILLING

MESA PETROLEUM CO
SINK FED WELL #1
1980' FSL & 660' FEL
SECTION 9-T16S-R27E
EDDY COUNTY, NEW MEXICO
NM - 4028
OCTOBER 16, 1979

In conjunction with Form 9-331 C, Application for Permit to Drill subject well, Mesa Petroleum Co submits the following items of pertinent information in accordance with USGS requirements.

1. The geologic surface formation is Permian-Guadalupean Artesia Group.
2. The estimated tops of geologic markers are as follows: RKB = 3539 (est)

FORMATION	DEPTH
Queen	599'
San Andres	1319'
Glorieta	2724'
Tubb	4089'
Abo	4814'
Wolfcamp	6014'
Bursum	6864'
Strawn	7914'
Atoka	8309'
Morrow	8394'
Miss. Chester Sh.	8439'
Miss. Chester Ls.	8589'
TD	8650'

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

Water : at approx 2800', 3350', and 4400'
Gas & Water: at approx 7290' to 8030'
Gas : at approx 8310' to 8410'

4. CASING AND BLOWOUT PREVENTER PROGRAM:

Surface: Drill a 17-1/2" hole to approximately 350'. Run deviation survey at 100', 200', and 350'. Limit deviation to 1°. Run 13-3/8" casing with guide shoe and insert float (one joint up) to total depth. Thread lock and tack weld bottom two joints. Run centralizer in the middle of joints 1, 3, and 5. Cement with 400 sacks Class "C" plus 2% CaCl with pipe on bottom. Cement must circulate. Pump down backside through 1" pipe if necessary. WOC 4 hours and commence cut off and nipple up. Install 13-3/8" slip-on 12" API 3000 psi bradenhead. Nipple up 10" API 3000 psi WP double BOP with pipe rams (bottom) and blind rams. WOC 18 hours, then test casing to 500 psi.