

Attachment to USGS Form 9-331C
Application for Permit to Drill

RESERVE OIL, INC.
COOPER JAL UNIT, WELL NO. 153
280' FWL & 1400' FSL, Sec. 19, T24 S, R37E
Lea County, New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
2. The estimated tops of geologic markers are as follows:

Anhydrite = 1140'	Yates = 2970'
Top Salt = 1210'	7 Rivers = 3220'
Base Salt = 2810'	Queen = 3620'

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

Water - unknown
Oil - 2970'
Gas - None anticipated

4. Proposed casing program:

Surface - 8 5/8", 24#, K-55 New Casing set at 350'
Production - 5 1/2", 15.5#, J-55 New Casing set at 3650'

5. Proposed cementing program:

Surface - 8 5/8" casing - 250 sxs. Class "C" w/1/4# Flocele/sx.
(1.32 ft.³/sx. yield)

Production - 5 1/2" casing - Lead cement = 500 sxs. Class "C"
3% Econolite (2.85 ft.³/sx. yield)
Tail-in cement = 200 sxs. 50-50 Class "C"
Pozmix "A", 2% gel, 9# salt, 1/4# Flocele/
sx. (1.41 ft.³/sx. yield)

6. Proposed mud program:

0-350' Fresh water.
350-3700' 10# gelled brine & starch.