

**TENNECO OIL COMPANY
DRILLING PROGNOSIS**

LEASE: USA Reno Oil Company

WELL NO.: 4

DISTRICT: Midland

FIELD: Caprock Queen

LOCATION: 660 FSL, 1980' FWL, Section 3, T-15-S, R-31-E, Chaves County, New Mexico

PROJECTED HORIZON: Queen Sand

EST. TD: 3300'

EST. ELEV: 3000'

DRILLING, CASING, AND CEMENTING:

1. Drill 12 $\frac{1}{4}$ " hole to 350'.
2. Cement 8 5/8" casing at 350' with sufficient 50-50 Pozmix and Class "C" containing 2% CaCl₂ to circulate to surface. Tail in with 75 sz Class "C" with 2% CaCl₂. Use guide shoe with insert float in top of first joint. Install bar type centralizers around shoe and next two couplings.
3. Release pressure and install BOPs immediately. After 8 hours test casing to 600 psi for 30 minutes and drill out.
4. Drill 7 7/8" hole to TD, approx. 3300'.
5. Cement 4 1/2" casing at TD with sufficient Class "C" cement to fill 500' above pay zone and tail in with enough latex cement to cover producing zone. Use reciprocating scratchers and centralizers to cover zone of interest.

DRILLING FLUIDS:

1. 0 - 350': Spud mud.
2. 350' - 1250': Fresh water.
3. 1250 - TD: Brine water
4. At 3100' have salt water mud with properties:

Weight:	9.5 to 10.4 ppg
Viscosity:	32-34
Water Loss:	Below 20

5. Before logging, raise viscosity to 45.

DRILLING TIME:

1. A two pen recorder of the Geograph type will be required.
2. Record one foot drilling on recorder from surface casing point to TD.
3. Record ten foot drilling time 2200' - TD on Company forms.

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