

## DRILLING PROGNOSIS

LEASE: USA Reno Oil Company

WELL: TOC No. 2

DISTRICT: Midland

FIELD: Caprock Queen

LOCATION: 990' FSL & 330' FWL, Section 3, T-15-S, R-31-E, Chaves County, New Mexico.

PROJECTED HORIZON: Queen Sand. Est. TD - 3200'  
Est. Elev. - 3000'

### DRILLING, CASING AND CEMENTING:

1. Drill 12 1/4" hole to 350'.
2. Set 8 5/8", 32#, J-55, STAC Casing at 350' or deeper. Cement 8 5/8" casing with sufficient 50-50 Pozmix Incor containing 2% CaCl<sub>2</sub> to circulate to surface. Use guide shoe with insert float in first collar above shoe. Use bar type centralizers around shoe and around next 2 collars.
3. If float holds, release pressure immediately. After WOC 6 hrs. nipple up and install BOP. After WOC 12 hrs pressure test casing to 600 psi for 30 min. and drill out with 7 7/8" bit.
4. Drill 7 7/8" hole to TD. 3200' +, - .
5. At TD set 4 1/2" casing with Class C cement and tail in with enough Incor-Latex cement to cover producing zone. Run reciprocating scratchers and centralizers to cover zone of interest.

### DRILLING FLUIDS:

1. 0-350' - Use spud mud with sufficient viscosity to clean hole.
2. Use brine water to drill from 350' to TD.
3. At 3100' have salt water mud with following properties.

Weight: 9.5 to 10.0 lbs. per gal.  
Viscosity: 32-34 seconds/1000 cc  
Water Loss: Below 20 cc

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### DRILLING TIME:

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1. A 2 pen recorder of the Geograph type will be required.
2. Record 1' drilling on recorder from base of surface to TD.
3. Record 10' drilling time from 2200' to TD on company forms.

### DRILL PIPE MEASUREMENTS:

1. Strap drill pipe on last trip before reaching Queens sand.
2. Strap drill pipe at all coring, testing, logging and pipe running depths.

DRILL STEM TEST: None

CORING: None

### SAMPLES:

1. Catch 10' samples from 2200' to T.D.
2. All samples will be washed, sacked, labeled and tied in 100' bundles.

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