

TENNECO OIL COMPANY  
DRILLING PROGNOSIS

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LEASE: Jones Federal "E"

WELL NO.: 1

O. C. C.  
ARTESIA, OFFICE

DISTRICT: Midland

FIELD: Lusk Strawn

PROJECTED T.D.: 11500'

EST. ELEV.: 3540' GL

LOCATION: 1980' FNL & 660' FEL, Sec. 23, T-19-S, R-31-E  
Eddy County, New Mexico

DRILLING, CASING, AND CEMENTING:

1. Drill 17 1/2" hole to 700'±.
  2. Cement 13 3/8", 48 #/ft, H-40, ST&C casing at 700' with sufficient 50-50 Incor Pozmix containing 2% CaCl<sub>2</sub> to circulate. Run bar centralizers on guide shoe and bottom two joints. Use a guide shoe and insert float valve.
  3. If float holds, release pressure immediately. WOC 6 hrs., nipple up and install BOP.
  4. After 12 hrs. WOC, pressure test casing to 1000 psi for 30 min. and if ok, drill out.
  5. Drill 11" hole to 4000'±.
- NOTE: Do not exceed 20000 # weight and 60 RPM until first three drill collars are below casing shoe. Loss of circulation may be encountered between 2800' and 3500'. If severe at this location, hole may be dry drilled to intermediate point.
6. Run Caliper survey to pick seat for DV Packer tool.
  7. At intermediate point, run 8 5/8" casing as follows: 0 - 4000'±: 32 #/ft. J-55, ST&C casing. Use guide shoe with insert float valve in second collar. Use weld-on bar type centralizers on guide shoe and first two joints. Run a D.V. Packer cementing tool at a point 100' below the base of the salt section. The base of the salt is estimated at 2250' in this well.
  8. Cement in two stages as follows:  
  
1st Stage: 200 sx Incor containing 2% CaCl<sub>2</sub>.  
2nd Stage: 200 sx 50-50 Pozmix-Incor containing 6% gel.
  9. Run temperature survey after 8 hrs.
  10. If DV tool holds, land casing as cemented, release pressure and nipple up. Install BOP. WOC 8 hrs., and run temperature survey. Pressure test DV tool before drilling out and pressure test casing after drilling out DV tool to 1000 psi for 30 min. If ok, after a total of 12 hrs., WOC drill out with 7 7/8" bit. Do not exceed 20000 # weight and 60 RPM until first three drill collars are below casing shoe.
  11. Drill 7 7/8" hole to 11500'
  12. Run 4 1/2" casing as follows:  
  
0 - 3300': 11.6 #/ft. H-80, LT&C  
3300 - 8000': 11.6 #/ft. J-55, ST&C  
8000 - 11500': 11.6 #/ft., H-80, LT&C