

- (c) 13-3/8", 68 & 72#/ft, N-80, ST&C 1st intermediate casing @ 5300'. Cement with 3700 sacks of Class "C" w/6% Gel containing 6#/sk salt, 5#/sk Gilsonite and 1/4# Flocele followed with 1400 sacks Class "C" containing 2% CaCl<sub>2</sub> and 1/4# Flocele. Circulate cement to surface.
- (d) 9-5/8", 53.5#/ft, S-95, LT&C 2nd intermediate casing @ 13,000'. Cement with 2200 sacks Trinity "Lite-Wate" containing 4% Gel, 5#/sk Gilsonite, 0.8% Halad-9, 0.5% HR-7 and 1/4#/sk Flocele followed with 400 sacks Class "H" containing 0.5% HR-4 and 0.3% CFR-2. Top of cement @ 7300'.
- (e) 7-3/4", 46.1#/ft, LSS125 drilling liner from 12,700' to 18,300'. Cement with 800 sacks Class "H" containing 20% SSA-C, 20% Barite, 0.75% CFR-2, 0.8% Halad-14 and 0.7% HR-7. Top of cement @ 14,000'. Squeeze top of liner (300' overlap) with 500 sacks Class "H" containing 20% SSA-C, 1% CFR-2, and 0.2% HR-7.
- (f) 5", 23#/ft, C-75 production liner from 18,000' to 22,500' (T.D.). Cement with 350 sacks of Class "H"-50/50 Pozmix A containing 17% SSA-1, 0.75% Halad-14 and 0.2% HR-12.

5. Mud Program:

<p><u>0' - 1,100'</u></p> <p>Weight: 8.6 - 9.0            Viscosity: 32 - 36            Filtrate: No Control            ph: 9 - 10</p>	<p>Conventional fresh water gel and lime spud mud. Seepage will be controlled with paper.</p>
<p><u>1,100' - 5,300'</u></p> <p>Weight: 9.9 - 10.2            Viscosity: 28 - 29            Filtrate: No Control</p>	<p>Anticipate drilling this section of hole with air.</p> <p>Alternate program will be to drill this interval with brine. Circulate through reserve pits.</p>
<p><u>5,300' - 13,000'</u></p> <p>Weight: 8.4 - 9.4            Viscosity: 28 - 30            Filtrate: No Control            ph: 9 - 11</p>	<p>Will drill out from 13-3/8" casing with fresh water, circulating reserve pits. Brine water will be added for necessary weight control. Periodic hole sweeps will be made with prehydrated fresh water gel to ensure proper hole cleaning.</p>
<p><u>13,000' - 18,300'</u></p> <p>Weight: 11.0 - 16.0            Viscosity: 36 - 45            Filtrate: 6 - 20            ph: 9 - 11</p>	<p>The steel mud pits and pressure detection equipment (Flo-sho, PVT system, Gas Separator, Degasser, &amp; Visi-Logger) will be used from 13,000' to T.D. Drill out with fresh water Benex system weighing 11.0#/gal. Formation pressure will be controlled with addition of barite. Bulk barite equipment will be used. Anticipate initial abnormal pressure @ ±13,600'.</p>