

STATE "R" #1
CASING & CEMENTING PROGRAM

Surface Casing: 13-3/8" 54.5#/ft J-55 set @ 1650' in 17-1/2" hole.

Cement: 800 Sxs Cl "C" + 2% CaCl. Note: Cement circulated to surface.

wt. 14.8 ppg
yld. 1.32 cfps
wtr. 6.30 gps

Intermediate Casing: 5500' 8-5/8" 32#/ft J-55. 0 - 5500'.

Lead Cement: 1100 Sxs Halliburton Lite Class "C" + 18 lb/sx salt + 1/4 Flocele.

wt. 13.3 ppg
yld. 1.94 ft³/sx
wtr. 9.9 gal/sx

Tail Cement: 300 Sx Cl "C" + 2% CaCl. Note: Cement circulated to surface.

wt. 14.8 ppg
yld. 1.32 cfps
wtr. 6.30 gps

Production Casing: 5-1/2" 17.0#/ft N-80 LT&C @ 8500'. 7-7/8" hole.

5-1/2" 20#/ft N-80 LT&C 3500-13,600'.

Cement Slurry: 800 Sxs Class "H" + 0.75% HALAD-22A (Fluid Loss) + 0.5% HR-5 (Retarder)

Slurry Wt: 15.6 ppg
Slurry Yield: 1.13 cf/sx
Water requ.: 5.20 gal/sx