

Finished coring, started drilling 12,389'-14,168'. TOH to log, RU Schlumberger 8/29/85. Ran DIL/Micro SFL with Gamma Ray and Caliper 14,160'-4914', BHC Sonic with Gamma Ray and Caliper 14,156'-4914', CNL-LDT with Gamma Ray and Caliper 14,156'-4914' finished logging with Schlumberger 8/30/85. Circulate at 13,605', Western spotted 225 sx Class "H" + .4% TF-4, plugged 13,605'-13,060'. Displaced with 179 bbls (SW = 16.2#, 1.08). Pull 16 stands DP, circulate at 12,130'. TIH and tag cement at 13,064'. Drilled cement 13,064'-13,132', firm to hard cement. Circulate at 13,132'. Drilled cement 13,132'-13,200', hard cement, circulate at 13,200'. Ran, set and cemented 322 jts 5-1/2" casing 17# & 20# L-80 LTC & Butt at 13,200' with FC 13,115', Howco stage tool at 12,582'. Western cemented 1st stage with 20 bbl Turbo Flo 2 spacer 150 sx Class "H" + 1.25% Flo-Lok + .2% WR-2 + 3#/sx Hi Seal (SW = 15.6#, Yield = 1.18). Ran 40 centralizers from 13,200'-11,700' reciprocated pipe before cement. Plug down at 11:50 a.m. 9/1/85 full returns until 275 bbl displacement, at 290 bbls. Had 1/2 returns, 290-303 full returns. Max psi 500. Bump plug with 1200 psi. Drop bomb and open stage tool with 1750 psi. Circulate thru stage tool at 12,582' (Circ. Øsx cmt.) 2nd stage cement: Western pumped 20 bbl Turbo Flo 2 spacer with 275 sx Class "H" + 1.25% Flo-Lok 1 + .1% WLW (SW = 15.6, Yield 1.18) Max psi 1000. Bump plug and close stage tool with 2500 psi tool held OK, good returns. WOC - RD Western, set 5-1/2" casing, slips with 192,000*SW at 85%. NU on 5-1/2" casing, set CIW 10" x 3000# x 6" f/spool W/R. Seal and tested to 2000 psi install Lesco Rental blind flange on top of spool. Rig released 8:30 a.m. CST 9/2/85. Turned over to production.

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