

NESTE 6-1

MORANCO RIG 6

EDDY CO., NEW MEXICO

- 1) 13-3/8" sur.csg. set at 651'
 - cement w/550 sxs - no returns, ran temp. survey - TOC 580'.
 - NMOGC advised run 1" and cement annulus (Mike Williams - NMOGC). Ran 1" to 443', set 4-35 sx stages thru 1".
 - cemented from surface with 125 sx. Thixotropic cement, plug 5 yds. pea gravel.
 - Ran 1" tag at 224'.
 - Cemented from surface with 125 sx Thixotropic cement plug 140 sx. Class C cement, cement to surface.
 - Test 13-3/8" shoe seat to 11.5 ppg equiv. MW.
- 2) Drilled 11" hole to 2500', intermed. csg. depth.
 - a) Noted water flow at 1840' while drilling with 10.4 ppg brine (i.e., well would flow w/pump off rate did not increase with time). As approached csg. depth of 2500', noted slight oil cut with water.
 - b) Circ. 50 bbls mud sweep, spot 50 bbl pill on bottom, POOH, ran 8-5/8" csg to 2500'.
 - c) Cemented 8-5/8" csg. with 600 sx. BJ lite at 13.7 ppg plug 250 sx Class C w/2% CaCl. Lost full returns while displacing cement.
 - d) Install hanger, pack off and casing hd. Well start flow on 8-5/8x13-3/8" ann. SI press built to 450 psi.
 - e) Ran temp. survey, TOC at 2000'.
 - f) Pump in 8-5/8x13-3/8" ann. with 160 bbl. 11.5 ppg mud, followed by 300 sx Thixotropic cement at 13.9 ppg plug 315 sx Class C w/2% CaCl at 14.8 ppg. Shut in with 350 psi. WOC 8 hours. Ran temp. survey. TOC at 200', btm of cement at 1300' approx.
 - g) Press test 8-5/8x13-3/8" ann. to 975 psi. Could not pump in.
 - h) Test BOP's and csg. to 1000 psi, drill out 10' and test csg. shoe seat to 11.5 ppg equiv. MW. Drilled ahead.
 - i) After 20 hours S.I., 8-5/8x13-3/8" ann. built slowly to 500 psi. Bled to 0 psi in less than 1 min. No hydrocarbon odor, no fluid.