



*W. J. L. L.*

3-7-82 Rigged up and ran 45 jts. 4½" OD, 11.6#, 8 Rd, ST&C csg. & 114 jts. 4½" OD, 10.5#, 8 Rd, ST&C csg. (159 total joints) T.E. 6397.67' set at 6403' RKB. NOTE that there was an error in driller's T.D. Should have been 6404 instead of 6377'.

Cemented first stage with 10 bbls mud flush followed by 250 sx class "B" plus 4% gel & ¼# flocele per sk followed by 150 sx class "B" w/ ¼# flocele per sk. (Total slurry first stage 557 cu.ft.) Good circ. throughout job. Reciprocated csg. OK while cementing. Bumped plug with 1500 psi. Held OK. Job complete at 9:15 p.m. 3-6-82. Dropped opening bomb and opened Industrial rubber stage tool at 4296'. Circulated 2½ hrs. with rig pump.

Rigged up Howco and cemented 2nd stage with 10 bbls. mud flush, 475 sx 65-35 plus 12% gel & ¼# flocele per sk followed by 100 sx class "B" plus 4% gel and ¼# flocele per sk. (Total slurry 2nd stage 1396.5 cu.ft.) Good circulation throughout job. Cement circulated to surface. Maximum cementing pressure 2nd stage 1100 psi. Closed stage tool with 2500 psi. Job complete 1:30 a.m. 3-7-82. Nippled down B.O.P. Set 4½" csg. slips. Cut off 4½" csg. Released rig at 3:30 a.m. 3-7-82.