

THE SUPERIOR OIL COMPANY

GOVERNMENT "E" NO. 4
SECTION 25, T-19-S, R-34-E
LEA (SAN ANDRES) FIELD
LEA COUNTY, NEW MEXICO

DRILL STEM TESTS

DST NO. 1, Straddle Test of Queen Sand 4900' - 4945'

Lynes Hydraulic Straddle Tester, 4-1/2" DP dry, 1" btm chk, pkrs & 4900' & 4945'. Opened tool @ 8:07 PM for 10 min preflow w/weak blow increasing to fair blow. SI for 1 hr SISIP. Opened tool for 3 hr test w/weak to very slight blow @ end. SI for 3 hr FSIP. POH. Rec 445' gassy salt water cut drlg mud, 13,920 GPG NaCl. IFP 25 - 50 psi, 1 hr ISIP 202 psi, FFP 50 - 126 psi, 3 hr FSIP 202 psi, HP 2722 psi in & 2748 psi out.

DST NO. 2, 4687' - 4782'

4-1/2" DP dry, 1" btm chk, straddle pkrs @ 4687' & 4782'. Opened tool @ 11:25 AM for 5 mins w/fair to strong blow, shut in for 1 hr ISIP. Opened tool for 3 hr test w/fair to strong blow, turned to pit on 1/2" top chk & blow steadily decreased to slight blow @ end of test. SI for 3 hr FSIP. POH. Rec 2450' slightly gas & salt water cut drlg mud, 16,992 GPG NaCl in top to 14,400 GPG NaCl in btm, pit 17,940 GPG. IFP 154 - 566 psi, 1 hr ISIP 1262 psi, FFP 668 to 1236 psi, 3 hr FSIP 1262 psi, HP 2662 psi in & out, BHT 105 ° F.

DST NO. 3, 5870' - 6200', San Andres

Lynes Testers, DP dry, 9/16" btm chk, pkr @ 5870'. Opened tool for 10 min preflow @ 8:27 AM w/weak blow. SI for 1 hr ISIP. Opened tool for 2 hr test w/steady weak blow on 1/4" surf chk. SI 2 hrs. POH. Rec 150' drlg mud w/no shows, top of rec tested 16,512 GPG NaCl and bottom tested 15,456 GPG NaCl. Rec sample chamber 2100 cc very slightly oil cut mud tstd 19,008 GPG NaCl. IFP 56 psi, 1 hr ISIP 2215 psi, FFP 114 psi, 2 hr FSIP 2120 psi & still increasing, HP 3301 psi in & out, BHT 106° F.