

THE SUPERIOR OIL COMPANY

STATE "Q" COM #1
2235' FSL & 660' FWL
SECTION 34, T-21-S, R-26-E
WILDCAT - MORROW
EDDY COUNTY, NEW MEXICO

DRILL STEM TESTS

- 4-7-73 DST NO. 1 8865'-8960', WOLFCAMP
5/8" bottom choke, 1000' fresh water cushion. Set pkr @ 8865'. Opened tool at 2:30 a.m. w/weak blow for 10 min pre-flow. Closed in 1 hour. Opened tool for 2 hour test on 1/4" choke incr to 3/4" choke after 30 mins. Gas to surface in 1-1/4 hours w/max TP 24 psi on 3/4" choke decr to 2 psi TP at end of test. Final gas flow estimate at 100 MCFPD. Closed in at 5:40 a.m. for 3 hour FSIP. POH and rec 1000' water cushion plus 350' heavily gas cut mud and condensate. Sample chamber recovered 3.7 cu ft gas and 1400 cc condensate. 1 hour ISIP 3666, FP 460-507, 3 hour FSIP 3780, HP 4488 in & 4465 out, press charts showed zone very tight.
- 4-22-73 DST NO. 2 10,024'-10,095'
HOWCO tester on 3-1/2" DP, 1000' 10.2# SW cushion, 5/8" BHC, pkr at 10,024'. Tool open @ 1:35 p.m., 4-21-73 for 15 min pre-flow, weak blow of air increasing to good blow in 15 mins. Took 1 hour ISIP. Opened tool for 85 mins test @ 2:50 p.m.. Had gas to surface in 5 min, w/max 33 psi surface press on 1/4" choke after 30 mins. Changed to 3/4" choke & press bled to 0# after tool opened total 1 hour. Maximum gas flow rate 150 MCF/day. Packer failed after tool had been open 65 mins. Shut tool in after 85 mins & attempted to take 1 hour FSIP. Pulled pkrs loose. Started POH & found 9245' of fluid in DP. Reversed out 8745', slightly gas cut drlg fluid & 1000' water cushion. Finished POH. IHP 5362#, 1 hour ISIP 4382 psi, 65 min flow press 397 psi - 507 psi. Final shut in press no good. BHT 165° F. Recovered from sample chamber 0.1 cu ft gas @ 60 psi & 1850 cc drlg fluid.
- 5-10-73 DST NO. 3 11,020'-11,151'
HOWCO tester 5/8" bottom choke, 1000' salt water cushion. Set pkrs @ 11,016' & 11,020'. Tried to open tool @ 6:00 a.m. this morning, would not open. Now POH to check tool & rerun.
- 5-11-73 DST NO 3-A 11,015'-11,151'
HOWCO Tester 1000' 10.2# salt water cushion, 5/8" bottom choke, pkrs @ 11,010' and 11,015'. Opened tool at 8:00 p.m. w/weak blow for 15 mins pre-flow. Shut-in for 1 hour ISIP. Opened at 9:15 p.m. for 1-1/4 hour test, weak to strong blow thruout. Shut-in for 1-1/2 hour FSIP. POH. Recovered 1000' salt water cushion, 1500' drlg fluid & 380' 9.6# formation water. 1 hour ISIP 4523 psi, FP 612 - 1137 psi, 1-1/2 hour FSIP 4346 psi, HP 6021 in and 5977 out, BHT 162° F.