

SINCLAIR OIL & GAS COMPANY

SOUTH WILSON DEEP UNIT, Well No. 1, 640' from West line and 1980' from South line of Section 23-21S-34E, Lea County, New Mexico

RECORD OF DRILL STEM TEST:

- DST #1 Delaware - 7810-7907, 5/8" x 1" Choke, no WC, open 5 min. for initial open flow with weak blow, dead in 1/2 min. Rec. 245' drlg. fluid, 30' very slightly gas cut drlg. mud. Chlorides from test = 45000PPM, from pit = 45000 PPM. Rec. from test .113 @ 60°, pit .123 @ 60°, 5 min. IOFP 67#, 1 hr. ISIP = 3359#, IFP = 67#, Final flow = 192#, 2 hr. FSIP = unable to close tool, hyd. press. 3849, temp. 125°.
- DST #2 Bone Springs - 10820-10920, 5/8" x 1" Choke, no WC, open with good blow in 35 min., weak blow rest of test. Rec. 50' thin drlg. mud & 180' drlg. mud. 5 min. IOFP = 56#, 1 hr. ISIP = 1246#, IOFP = 96#, FOFP = 123#, 2 hr. FSIP 1561, hyd. press. 5155', temp. 151°.
- DST #3 Strawn - 11635-11704, 5/8" x 1" Choke, 1000' WC, open 2 hrs. with weak increasing to fair blow in 45 min. decreasing to weak blow rest of test. Rec. 450' WC, 550' WC gas cut & 50' gas cut drlg. mud. 5 min. IOFP = 414#, 1 hr. ISIP = 2584#, IOFP = 414#, FFP = 455', 2 hr. FSIP = 3856, hyd. press. 5639#, BHT 161°.
- DST #4 Morrow - 12190-12565, 5/8" x 1" Choke, 1500' water blanket, misrun 5 min. IOF with weak blow, shut in 2 hrs. Tool failed to open @ end of 1 hr. ISIP period. Attempt bypass tool and placed tool in neutral position. Opened tool for 15 min, period while attempting to take 2 hr. FSIP. Rec. 1500' WC, 60' drlg. mud, 5 min. IOFP = 733#, 2 hr. ISIP = 1610#, 15 min. OFP = 760#, 2 hr. FSIP = 1219#.
- DST #5 Morrow - 12545-12640, 5/8" x 1" Choke, 1500' water blanket, opened 2 hrs. with good blow. Gas to surface in 23 min. and flowed at rate of: 30 Min. 752 MCF, 50 min. = 900 MCF, 70 min. = 955 MCF, 80 min. = 980 MCF, 90 min. 1000 MCF and for remainder of test. Rec. 1500' WC and 175' hvy. gas cut drlg. mud, 5 min. IOFP = 833#, 1 hr. ISIP = 7440#, 2 hr. IOFP = 873, FFP 1096#, 2 hr. FSIP 7380#, Hyd. in = 7696#, Hyd. out = 7638#, temp. 218.
- DST #6 Morrow - 12715-12790, 5/8" x 1" Choke, 1500' WC, packer failed, Rec. 1500' WC and 1000 IM, Hyd. Press. 7793, BHT 158°.
- DST #7 Devonian - 13970-14235, 5/8" x 1" Choke, 1500' WC, open 2 hrs. with fair blow throughout test. Gas to surface in 1 hr. and 45 min., TSTM. Rec. 1500' WC, 450' slightly gas cut drlg. mud, 5 min IOFP = 870#, 1 hr. ISIP 2336#, IOFP = 904#, FFP = 935#, 2 hr. ISIP = 1656#. Chl. on mud recovery same as pit mud.
- DST #8 Devonian - 13970-14365, 5/8" x 1" Choke, 1500' WC, open 3 hrs. with fair blow throughout test. Rec. 1500 WC, 2500' slightly gas cut drlg. mud, 8110' salty sulphur water, 5 min IOFP = 1671#, 1 hr. ISIP = not accurate due to tool not being closed securely, IOFP = 2119#, FFP = 5454#. Tool failed to close for 3 hr. FSIP. Flow pressure constantly building up from time opened for 3 hr. flow to end of test.

