

Drill Stem Tests

RE: State 8-8913 No. 1
Lea County, New Mexico

- DST NO. 1 (Strawn) from 10,675' to 10,850'. 2 hr. test. Weak blow increasing to fair blow in 45 mins. and fair blow for remainder of test. Took 30 min. FSIP. Recovered 35' drilling mud. No. shows. IFIP 140#, FFP 153#, FSIP 608# in 30 min.
- DST No. 2 (Atoka) from 10,845' to 10,925', 5/8" X 1" chokes. Open 5 mins. for pre-flow. 2 1/2 hr. test. Had strong blow for 5 mins. during pre-flow. Opened with strong blow on Regular test, decreased to fair in 20 mins. and continued fair throughout test. GTS in 1 hr. 55 mins., TSTM. Recovered 150' GOM. IHP 5043#, ISIP 990#, IN 30 mins., IFP 102#, FFP 102#, FSIP 277# in 30 mins., FHP 5043#. Temp. 146°.
- DST No. 3 (Morrow) from 11,440' to 11,457'. 17' of open hole below 5 1/2" casing. W/packer set at 11,320' with tail pipe at 11,421'. 1/4" bottom choke 1/2" top choke. Ran 6000' water blanket. Tool open 3 mins. for pre-flow with strong blow. 10# surface gauge at end of 3 mins. 1 hr. ISIP, 6 1/2 hrs. test. Opened tool for test. Water blanket to surface in 4 mins. w/2000# on Manifold in 5 mins., GTS in 8 1/2 mins. 3000# in 30 mins., 1700# in 1 1/2 hrs. on 1/2" choke. Changed to 3/8" choke. Took 1 3/4 hr. test. Flowing pit. Pressure stabilized at 2400#. Turned well to separator. 1 hr. test on 12/64" stabilized FP at 5400#. Separator pressure 380#. Flowing 1575 MCFPD. 1 hr. test 16/64" stabilized pressure 5200#. Separator pressure 420#. Flowing 2275 MCFPD. 1 hr. test on 20/64" choke, stabilized pressure 4900#, separator pressure 640#. Flowing 3250MCFPD. 1 hr. test on 24/64" choke, stabilized pressure 5000#. Separator pressure 750#. Flowing 6600 MCFPD. Estimated 20 Bbls. distillate per MMCF, 55 Gravity Corrected. Took 2 hr. FISP. Recovered 180' of 55 Gravity Distillate. No water. Hydro in 7599#. ISIP 6653# in 1 hr. IFP 5868#. FFP 6000#. FSIP 6620# in 2 hrs., Hydro out 7599#.