

State JGT #1

LOGS OF DRILL STEM TESTS

- 1-1-49 3154' TD, Ran Drill Stem Test #1 w/ Packer set @ 3068', Perforations: 3068'-70' and 3130'-3151' w/ 3/8" bottom and 5/8" top chokes. Tool open @ 7:25PM w/ light blow gas to surface in 18 minutes, no fluid, tool closed @ 11:25PM for 1/4 hr. B.U.P. Gas Vol.- 15,430 cu.ft. gas per day. Recovered: 70' gas out  $\phi$  mud. Howeo: Hydro in 1850#, out-1850#, flow press. 75#, 1/4 hr. B.U.P. 800# Amerada Chart: Hydro in 1740#, out-1695#. Min. flow press. 85#, Max. Flow 85#, 1/4 hr B.U.P. 790#.
- 1-3-48 3248' TD, Ran Drill Stem Test #2 w/ Packer set @ 3154', Perforations: 3155'-66' and 3217'-3242' w/ 3/8" bottom & 5/8" top chokes, tool opened @ 10:45AM, made few bubbles and quit, closed and reopened tool @ 10:50AM same results, closed tool @ 11:45AM, no recovery. Chart showed tool had failed to open, checked tool & bottom hole choke, Went back in hole with test tool on bottom and tool open @ 4:45PM (Same packer setting)(and Perf.) Gas to surface in 2 mins, no fluid during test, tool open 4 hrs closed @ 8:45PM. Recovered: 210' salt water mud out. Howeo: Hydro in 1950#, Hydro out 1925#, Flow pressure 300#, 1/4 hr. B.U.P. 1260# Made 277,000 cu.ft. gas per day. Amerada Chart: Hydro in 1770#, Hydro out-1800#, flow press. 120#, 1/4 hr. B.U.P. 1510#.
- 1-5-49 3365' TD, Ran Drill Stem Test #3 w/ Packer set @ 3248', Perforations: 3249'-50' & 3339'-62' w/ 5/8" bottom & 1" top choke. Tool opened @ 3:50AM. Gas to surface in 2 mins, Gas Volume started @ 1,390,000 cu.ft. per day and increased to 1,785,000 cu.ft. Closed tool @ 7:50AM. Recovered 88' gas & sulphur water cut  $\phi$  mud. Howeo: Hydro in 1885#, Hydro out-1820#, Min. flow 290#, Max. flow 515#, 1/4 hr. B.U.P. 950#. Amerada Chart: Same as above.
- 1-7-49 3465' TD, Ran Drill Stem Test #4 w/ Packer set @ 3365', Perforations: 3366'-67' & 3456'-62', 3/8" bottom & 1" top chokes, Tool open @ 12:15AM. Gas to surface in 4 mins. Mud & sulphur water in 5 mins. Flowed sulphur water. Made 7.54bbbls for 1st. hr, 2nd, 3rd and 4th hours. Made 18.56bbbls 4th hr. After closing tool made .58bbbls, Total of 41.76bbbls sulphur water. Tool closed @ 4:15AM for 1/4 hour B.U.P. Made 1,072,890 cu. ft. gas per day. Recovered: 840' sulphur water. Howeo: Hydro in 1950#, out-1925#, Min. flow-325# and Max. flow 750#, 1/4 hr B.U.P. 925#. Amerada Chart: Hydro in 2010#, Hydro out 2010#, Min. flow 310#, Max. flow 715#, 1/4 hr B.U.P. 970#
- 1-17-49 3800' TD, Ran Drill Stem Test #5 w/ Packer set @ 3687', Perforations: 3757'-82' w/ 5/8" bottom & 1" top chokes. Opened tool @ 2:30AM with gas to surface in 20 mins and drlg. mud in 55 minutes, made 2 bbls drlg. mud 1st hr. No fluid for remainder of test, making approx. 5,000 cu. ft. gas per day. Tool closed @ 6:30AM for 1/4 hr. B.U.P.. Recovered 1882' of salty sulphur water gas out, no oil, light blow of gas throughout test, not enough to measure, Howeo: Hydro in 1450#, Hydro out 1425#, Min. flow 800#, Max. flow 800#, 1/4 hr. B.U.P. 0#, Amerada Chart: Hydro in 1860#, out-1820# Min. flow 610#, Max. flow 660#, 1/4 hr B.U.P. 1180#

1-13-49

Ran Schlumberger Electrical Survey and Gamma Ray Survey.

