

# DRILL STEM TESTS

- 9-14-50 D.S.T. #1 from 8360' to 8470'. 1 hour & 45 mins. test on 3½" Mod. Drill Pipe. Two Howco Packers set at 8352' & 8360'. perforations from 8452' to 8467', 5/8" bottom & 1" top chokes. Tool opened at 7:30PM with light blow of air for 45 mins. and died. Closed tool at 9:15PM for 1/4 hour build-up pressure. Recovered 30' drlg. mud, no shows of oil, gas or water. Howco Hydro Pressure In 4325#, Out 4325#, Initial Flow Pressure 275#, Final 275#. 1/4 Hour Build-Up Pressure 275#
- 9-17-50 D.S.T. #2 from 8470' to 8640'. 3-1/2 hour test on 3½" Mod. Drill Pipe. Two Howco Packers set at 8470' & 8462'. Perforations from 8437' to 8420', 5/8" bottom & 1" top chokes. Tool opened at 11:25PM with good blow of air which gradually decreased and died in 2-1/2 hours. Closed tool at 2:55AM for 1/4 Hour Build Up Pressure Recovered 470' of drlg. mud, no oil, gas or water. Howco Hydro Pressure In 4450#, Out 4400#, Initial Flow Pressure 275#, Final 275#. 1/4 Hour Build-Up Pressure 0#
- 9-21-50 D.S.T. #3 from 8640' to 8800'. 1 hour & 5 min. test on 3½" Mod. Drill Pipe. Two Howco Packers set at 8640' & 8634'. Perforations from 8641' to 41' and 8787' to 8797'. 5/8" bottom & 1" top chokes. Tool opened at 8:00PM with light blow of air for 5 mins. and died. Closed and reopened tool at 9:00PM with very light blow of air for 2 mins. and died. Closed tool at 9:05PM for 1/4 Hour Build-Up Pressure. Recovered 65' of drlg. mud, no oil, gas or water Howco Hydro Pressure In 4500#, Out 4300#. Initial Flow Pressure 100#, Final 100#. 1/4 Hour Build-Up Pressure 100#
- 9-23-50 D.S.T. #4 from 8799' to 8925'. 1 hour & 20 mins. test on 3½" Mod. Drill Pipe. Two Howco Packers set at 8799' & 8791'. Perforations from 8799' to 8800' and 8915' to 8922'. 5/8" bottom & 1" top chokes. Tool opened at 10:30PM with light blow of air, decreasing to slight blow and died in 20 mins. Closed tool at 11:50PM for 1/4 Hour Build Up Pressure. Recovered 60' of drlg. mud, no oil, gas or water. Howco Hydro Pressure In 4600#, Out 4475#. Initial Flow Pressure 125#, Final 125#. 1/4 Hour Build-Up Pressure 0#
- 9-26-50 D.S.T. #5 from 8925' to 9610'. 4 hour & 15 mins. test on 3½" Mod. Drill Pipe. Two Howco Packers set at 8925' & 8917'. Perforations from 8926' to 27' & 9099' to 9107'. 5/8" bottom & 1" top chokes. Tool opened at 7:30PM with good blow of air, decreased in 20 mins. and almost died in 3 hours. Gas to surface in 4 hours, too small to measure. Closed tool at 11:45PM for 1/4 Hour Build-Up Pressure. Recovered 100' of Drlg. Mud cut with gas and 3995' of Salt Water. Howco Hydro Pressure In 4600#, Out 4500#, Initial Flow Pressure 1290#, Final 2100#. 1/4 Hour Build-Up Pressure 2350#
- 10-18-50 D.S.T. #6 from 10085' to 10164'. 4 hour test on 3½" Mod. Drill Pipe. Two Howco Packers set at 10077' & 10085'. Perforations from 10142' to 10161'. 5/8" bottom & 1" top chokes. Tool opened at 4:15PM with good blow of air, gas to surface in 1 hour and 5 mins. Est. 1,000 cu ft per day. Closed tool at 8:15PM for 1/4 hour build up pressure. Recovered 1000' Water Blanket, slightly gas cut, 1520' of gas cut mud, 90' gas cut black Sulphur Water. All fluid cut 5% gas. Howco Hydro Pressure In 5200#, Out 5150#, Initial Flow Pressure 1200#, Final 1200#. 1/4 Hour Build-Up Pressure 3300#
- 10-19-50 D.S.T. #7 from 10164' to 10189'. 4 hour test on 3½" Mod. Drill Pipe. Two Howco Packers set at 10164' & 10156'. Perforations from 10165' to 10186'. 5/8" bottom & 1" top chokes. Tool opened at 11:00PM with strong blow of air, decreasing to weak blow at 11:30PM and remaining weak for remainder of test. Closed tool at 3:00AM for 1/4 hour build-up pressure. Recovered 60' of mud in Drill Pipe and 210' of mud in Drill Collars (3½" Mod.) 240' of Salty Sulphur water, very slight odor of gas. Howco Hydro Pressure In 5300#, Out 5100#. Initial Flow Pressure 0#, Final 300#. 1/4 Hour Build-Up Pressure 3700#

