

RECORD OF DRILL STEM TESTS

- 9-23-48 8566' TD, Ran Drill Stem Test w/ packer set @ 8531', Perforations: 8534'-63', 3/8" bottom & 5/8" top chokes. Tool open 12:12PM with good blow air throughout 4 hr test, no gas. Tool closed 4:12PM. Recovered 4800# sulphur water, slightly salty, no oil or gas. Howco: hydro in 4000#, flow 200-2050#; 15 min build up 2800#. Amerada: hydro in 4115#, out 4135#; flow 225-2200#; 15 min build up 2955#.
- 9-24-48 8628' TD, Ran Drill Stem Test w/ packer set @ 8593', Perforations: 8595'-8625', 3/8" bottom and 5/8" top chokes. Tool open 4:06PM with good blow air. Packer leaked, reset packer but failed to hold. Tool closed 4:30PM. Recovered 2610' mud slightly cut w/ sulphur water. Howco: hydro in 4100#, out 4050#; flow 500-1400#. Amerada: hydro in 4080#, out 4055#; flow 385-1005#.
- 9-25-48 8628' TD, Ran Drill Stem Test w/ packers set @ 8584' & 8592', Perf.- 8594'-8624', 3/8" bottom and 5/8" top chokes. Tool open 10:20PM w/ good blow air. Packers leaked w/ 22pts. weight. Tool closed 10:32PM. Recovered 600' mud, 630' sulphur water. Howco: hydro in 4100#, out 4000#, flow 300-600#. Amerada Bomb: hydro in 4080#, out 4055#, flow 175# to 565#.
- 11-3-48 10656' TD, Ran Drill Stem Test w/ packer set @ (2nd packer K) 10583', Perforations: 10623'-653', 5/8" bottom and 1" top chokes. Tool open 4:27PM with small blow air that died in 13 min. Closed and reopened tool at 4:45PM and 5:40PM and OK. Tool closed at 5:50PM at end 1 hr. and 23 min. test. Recovered 32' of mud. Hydro (Howco) in 4450#, out 3475#; flow 0#; did not take build up. Amerada: hydro in 5320#, out 4860#; flow 80#.
- 11-4-48 10690' TD, Ran Drill Stem Test w/ packer set @ 10642', Perforations: 10652'-53' & 10641'-87', 3/8" bottom and 5/8" top chokes. Tool open 10:50PM but packers failed to hold and closed tool immediately. Reopened tool 11:03PM with 1 air bubble. Closed and reopened tool 11:16PM with weak blow air that died to 10 min. Tool closed 12:26AM. Recovered 120' mud. Chart showed 600# flowing pressure which would equal 1200' of mud that should have been in drill pipe. Circulating sub & jts off bottom leaked coming out of hole. Recovered no water. Will re-test.
- 11-5-48 10690' TD, Ran Drill Stem Test w/ packers set @ 10654' & 10662', Perf.- 10664'-10686', 3/8" bottom & 5/8" top chokes, Opened tools @ 8:45AM 10 or 12 bubbles of air, set 1 hour and reopened at 9:50AM, small blow air for 42 minutes to 10:32AM, closed tools @ 11:32AM. Out at 3:15PM, recovered 120' drilling mud, no oil, gas or water, Hydro pressures in 4950, out-4950#, flow press. 46#, no build up, would not register.
- 11-6-48 10720' TD, Ran Drill Stem Test w/ packers set @ 10676'-10668'. perf.- 10674'-75', 10708'-11', 3/8" bottom & 5/8" top chokes, opened tools @ 12:25PM, good blow air immediately and continued for 4 hours, closed tool @ 4:25PM, Recovered 135' mud, 5450' salt water, 15' of sand, Hydro in 4950#, out-4910#, Min. flow 235#, Max.-2860#, 15 min build up press.-3410#.
- 11-15-48 3906' DOD, Ran Drill Stem Tests w/ packers set @ 3880', Perf.-3881'-3902', 5/8" bottom and 1" top chokes, opened tool @ 12:15AM w/ good blow air immediately, decreased after 30 mins & had weak blow for 3-1/2 hrs, tool open 4 hrs, closed @ 4:15AM, Howco: hydro in 1725#, out-1525#, Min. flow 100#, Max-300#, 15 min build up 600#. Recovered 225' mud slightly oil & gas out, 630' sulphur salt water slightly oil & gas out. Amerada Bomb: hydro in 1770#, out-1520#, Min. flow 90#, max.-310#, 15 min build up pressure-440#.
- 11-17-48 3880' DOD, Ran Drill Stem Test w/ packer set @ 3859', Perf.- 3860'-77', 5/8" bottom & 1" top chokes, opened tools @ 10:45AM, w/ good blow air that decreased to weak blow in 10 mins. tool open 4 hrs, closed @ 2:45PM, recovered 150' mud, no water, Howco chart Hydro in 1800#, out 1830#, flow 0 to 100#, no build up pressure

