

RECORD OF DRILL STEM TESTS

- 10-21-48 5163' TD, Ran Drill Stem Test w/ Packer @ 5137', Perforations: 5138'-5160', 5/8" bottom & 1" top chokes. Tool open 9:20PM with strong blow gas in 2 mins, mud in 1 hr. and oil in 1 hr. 5 mins. Turned to tanks @ 10:45PM. Well flowing by heads and made 0.60 first 1/2 hr. and 2.76bbls. oil in next 1/2 hr. Made no more fluid. Qty.-35.1 corrected. Gas during first hour 125,730 cu.ft. per day, GOR-949. Gas gradually decreased and at end of test was 42,960 per day. Tool closed @ 3:20AM at end 6 hr test. Recovered 1170' of clean oil and 1170' of salt water. Top was 69,600ppm Chloride slight trace iron. Bottom was 80,200 ppm Chlorides. Hydro 2325#, flow-500-700#, 15 min build up 900#.
- 11-3-48 6438' TD, Ran Drill Stem Test w/ Packer @ 6395', Perforations: 6396'-97' & 6427'-35', 5/8" bottom and 1" top chokes. Tool open 8:40PM with gas in 2 mins, mud in 10 and oil in 16 mins. Turned to tanks at 9PM. 1st. hr 17.94bbls oil, 2/100 # mud; 2nd. hr. 15.18; 3rd. hr. 12.42; 4th hr. 15.18 & 5th hr. 15.18bbls. Total in 5 hrs 75.90bbls. oil - Total for 24 hours 364.38bbls. Gas 1,156,000 cu.ft. per day, GOR-3173, Qty. 40.3 corrected. Tool closed 2AM at end 5 hr. 20 min test. Recovered 700' clean oil, no water. Hydro 3180#; flow 900-800#; 30 min build up 2000#.
- 11-4-48 6453' TD, Ran Drill Stem Test w/ Packer @ 6406', Perforations: 6407'-08', 6438'-50', 5/8" bottom and 1" top chokes. Tool open 5:40PM w/ gas in 6 min., mud in 3hrs 30 min and oil in 4 hrs. Turned to tanks 10PM and in 4 hrs made 4.83bbls oil, 2.76, 2.76 and 2.76 for a total of 13.11 bbls oil for 24 hrs would be 78.66bbls, gas 153M, GOR 1977, Qty 38.4 corrected. Tool closed 2AM at end 8 hr 20 min test. Recovered 870' oil 90' mud out oil and 30' # mud, no water. Hydro 3200#, flow 200-400#; 15 min build up 2350#.
- 11-15-48 7332' TD, Ran Drill Stem Test w/ Packer @ 7284', Perforations: 7285'-86', 7316'-29', 5/8" bottom and 1" top choke. Opened tools @ 4AM, Gas to top in 6 mins., oil and mud in 20 mins, turned to tanks @ 4:20AM, first hour 41.40bbls, 2nd hr 38.64bbls, 3rd. hr 36.48bbls, 4th hr 40.71, total of 157.23bbls. Vol.-353,800 per day GOR 374 tool opened 5 hours, made 22.80bbls in 45 mins. while trying to close tool, pulled packer loose while trying to close tool w/o getting build up press. recovered 5400' of clean oil, 5' oil out mud & sand & est. of 10 bbls flowed to pits, Hydro 3650#, flow 1875-2600#, no build up.
- 11-16-48 7361' TD, Ran Drill Stem Test w/ Packer @ 7331' Perforations: 7333'-58', 5/8" bottom and 1" top choke, opened tool @ 3:38AM, Gas in 4 mins, oil in 37 mins, turned to tanks @ 4:15AM, 1st hr 35.88bbls, 2nd hr. 38.64bbls, 3rd. hr 28.90bbls, 4th hr. 27.60bbls. Total of 130.80bbls. Gas Vol.-210,200 per day, GOR 268, Qty. 38.3 corr. Closed tool @ 8:15AM, tried to open circulating head, recovered 4590' clean oil, 5' mud & sand Hydro 3700#, flow press. 2590-1500#, 15 mins. build up pressure 2275#.
- 11-17-48 7390' TD, Ran Drill Stem Tests & tried to set Packer @ 7358' for 1/2 hr, pulled out & recovered 13 stands of mud, Re-ran DST w/ packer set @ 7356'-7363', Perf. 7364'-87', 5/8" bottom & 1" top chokes, tool opened 1 hr 35 mins, had mild blow air for 35 mins, Recovered 120' gas out mud, Hydro 3600#, Flow 100#, 15 min build up 1950#, Amerada Bomb; hydro in 3650#, out-3665#, flow 85#, 15 min build up-1955#.
- 11-18-48 7420' TD, Ran Drill Stem Test w/ Packer @ 7385'-7377', Perf. 7386'-7416', 5/8" bottom and 1" top choke, opened tool @ 11:02PM, Light blow of air for 4 hours closed tool @ 3:02AM, rec.-180' # mud and 990' salt water, Howco Charts; Hydro in 3675#, out 3625#, min flow 85#, Max. 525#, 15 min build up 2300#, Amerada Chart; Hydro in 3760#, out 3860#, Min. flow 0#, Max. 410#, 15 min build up 2305#.

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