

Record of Drill Stem Tests

10-22-48

9930' DOD Ran Drill Stem Test w/ packer set @ 9884', Perforations: 9885'-9903', 3/8" bottom and 5/8" top chokes. Tool open 9:55AM with gas to surface in 3 min and oil in 12 min. Flowed well to tanks. In 24 hours well flowed 594.98bbls oil, gas 1,840,300 for 24 hrs. GOR-3093. Tool closed 10:10AM at end 24 hrs test. Rec.-300' oil. Howco: hydro in 4950#, out 4800#, flow: 2050#-2250#. No build up taken as clock stopped. Amerada Bomb: hydro in 4975#, out-4760#; flow: 1915#-2515#.

10-24-48

9930' DOD Ran drill Stem Test to test squeeze job. Packer set @ 9856'. 3/8" bottom and 5/8" top chokes. Tool open 9:02AM with gas in 4 min. , and oil and mud spray in 5 mins. In 4 hr - 48 min well flowed 192.59bbls. fluid, 9% BS&W. Total based on first 4 hours, 80.43bbls fluid, 9% BS&W, gas - 477,000 for 4 hrs., GOR-6517. Tool closed 1:50PM. Recovered 300' fluid. Howco: hydro in 4900#, out-4800#: flow- 2000#-1400#-1200#-1125# and 1150#; 15 min build up-2625#. Amerada: hydro in & out 5015#, flow 1780#-2000#; 15min build up 3300#. Set Baker Model K Magnesium Cement Retainer at 9815'

10-26-48

9930' DOD Ran Drill Stem Test to test Squeeze job from 9890'-9893' Packer set @ 9890'. 3/8" bottom and 5/8" top chokes. Tool open 2:50PM with gas in 4 min. & oil and mud in 13 min. First hour made 19.39bbls fluid, 10%BS, gas 133,200, GOR-6890. Flow 625#. Second hour made 33.12bbls fluid, 7% BS, Gas-126,200, GOR-3820. Tool closed 5:03PM. Recovered 390' of fluid and about 15 gal. fresh water. Top connections were sand cut, last joint had 5' sand and Howco Tool was full of sand. Bottom choke was completely out out and perf. were badly cut. Howco: hydro in 4850#, out-4275#, flow 350#-2000#; 15 min build up 2625#. Amerada: hydro in 4920#, out 2910#, flow 440# 2415#; 15 min. build up 3025#.

10-31-48

9930' DOD Ran Drill Stem Tests w/ packer set @ 9900', Perf.-9915'-20' 5/8" bottom and 1" top chokes. Tool open 3:10PM with gas in 7 min. Had light blow until 6PM and then quit. Started swabbing 6:30PM with no recovery until after 9PM. When started fluid at 8250'. In 11 1/2 hrs swabbed 13.80bbls fluid 5.2% BS&W, fluid at 9500', little gas with each pull. In next 5 hrs. swabbed 6.21bbls. fluid. Tool closed 11:40AM. Recovered 450' oil, 390' water, 10'sand above tool. Water tested - 110,000 ppm Chlorides. Howco: hydro 4800#, flow 100-800#, no build up as clock stopped. Ran bit, washed out sand 9915'-30'.

