

RECORD OF DRILL STEM TESTS

STATE BTR WELL No. 1

2-25-50

DST. #1 From 8365' to 8410', 4 Hr. test. Packers set at 8357' & 8365'. Perforations 8397' to 8406', 5/8" Bottom & 1" Top Choke, 3 1/2" Modified Drill Pipe, Drill Collars & Safety Joint, Tool opened at 9:31 A.M.

With small blow of air, gradually increasing, gas to surface at 10:58 A.M. Gas volume small but gradually increased to 4,062 Cu. ft. per day. No fluid to surface, closed tool at 1:31 P.M. for 1/4 hr. build up. Recovered 345' gas out drilling mud, no oil or water. Howco. Hydro. pressure in 4400# out 4400#, initial flow pressure 400# final flow pressure 150#, 1/4 hr. build up 400#. Amerada Hydro. pressure in 4520# out 4525#, initial flow pressure 200# final flow pressure 295#, 1/4 Hr. build up 395#.

2-27-50

DST. #2 From 8409' to 8496' Packers set at 8401' & 8409', 4 Hr. Test, on 3 1/2" Modified Drill Pipe, Drill collars & Safety Joint, Perforations 8470' to 8493' With 5/8" Bottom & 1" Top Choke. Tool opened at 4:45 AM. Gas to surface in 5 minutes, gas volume 246,519 cu. ft. per day. Closed tool at 8:45 A.M. for 1/4 hr. build up, recovered 780' drilling mud, cut estimated 10% with gas & distillate. Gravity corrected to 55.9, no water. Howco. Hydro. pressure in 4475# out 4325#, Initial flow pressure 200#, final flow pressure 225#, 1/4 hr. build up 2450#. Amerada Hydro. pressure in 4710# out 4425#, initial flow pressure 125#, final flow pressure 200# 1/4 hr. build up 2430#.

2-28-50

DST. #3 From 8497' to 8570', 4 hr. test, on 3 1/2" Modified Drill Pipe, Drill Collars & Safety joint. Packers set at 8489' & 8497', Perforations 8554' to 8566', with 5/8" bottom & 1" Top Choke. Tool opened at 4:50 AM. gas to surface in 3 minutes, Distillate in 8 minutes, estimated 6,000,000 cu. ft gas per day. 700# Drill pipe pressure. Flowed 13.89 bbls. 1st. 1/2 hr. 30% mud, flowed total of 28.98 bbls. first hr. 3% mud, at end of first hr. 60# pressure on separator, gravity corrected to 63.7, distillate has slight amber color. Made total of 78.66 bbls. distillate in 4 hrs. Gas volume 8,120,000 cu. ft. per day. Closed tool at 9:09 A.M. for 1/4 hr. build up. Recovered 100' free Distillate, no water. Howco. Hydro. pressure in 4400# out 4275#, initial flow pressure 1900#, final flow pressure 2500#, 1/4 hr. build up 2800# 3000# Amerada Hydro. pressure in 4710# out 4425#, initial flow pressure 125#, final flow pressure 200# 1/4 hr. build up 2430#.

3-2-50

DST. #4 From 8570' to 8614', 4 hrs. & 12 minute test, 2-6 1/2" Packers & safety joint on 3 1/2" Modified Drill pipe and Drill Collars. Packers set at 8562' and 8570', Perforations 8603' to 8611', with 5/8" bottom & 1" top choke. Opened tool at 12:30 PM. gas to surface in 2 minutes, mud up in 4 minutes, distillate up in 12 minutes, made total of 45.54 bbls. distillate in 4 hrs. no B.S. or water, gravity 57.4 at 36 degrees, Gas vol. 6,000,000 cu. ft. per day, closed tool at 4:42 PM/ for 1/4 hr. build up, recovered 90' Free distillate, no water. Howco. Hydro. pressure in 4400# out 4300#, initial flow pressure 1250# final flow pressure 1725#, 1/4 hr. build up 3050#, Amerada Hydro. pressure in 4440# out 4230#, initial flow pressure 1575# final flow pressure 1710#, 1/4 hr. build up 3025#

3-4-50

DST. #5 From 8623' to 8700', 4 hr. and 15 minute test, 2-6 1/2" Packers, Safety Joint, 3 1/2" Modified drill pipe & Drill collars, Packers set at 8615' & 8623', Perforations 8685' to 8697', with 5/8" bottom & 1" Top choke. Tool opened at 10:15 A.M. Gas to surface in 2 minutes, mud in 6 minutes, distillate in 15 minutes, Made total of 54.52 bbls. distillate in 4 hrs. Drill pipe pressure went from 600# to 750# at end of fourth hr. Gas vol. from 6,360,000 cu. ft. to 7,600,000 cu. ft per day. distillate had very light amber tint, closed tool at 2:30 PM. for 1/4 hr. build up, recovered 100' free distillate, no water. Howco. Hydro. pressure in 4500# out 4400#, initial flow pressure 1150# final flow pressure 2250#, 1/4 hr. build up 3100#. Amerada Hydro. pressure in 4710# out 4425#, initial flow pressure 125# final flow pressure 2090#, 1/4 hr. build up 3010#.

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• **CEO:** *“I don't know if I can do it. I don't know if I can do it. I don't know if I can do it.”*