

DRILL STEM TESTS

No. 1, 9-30-51 - 1-1/2 Hour Johnston Drill Stem Test 6156' - 6276' with 5/8" choke at 6142'. Used 2 packers at 6156' & 6148'. Bombs at 6172' & 6142'. Tool open 11:45 AM 9-30-51. Medium blow of air - Gas to surface in 32 minutes - Too small to measure. Recovered 420' oil and gas cut drilling mud - 20% oil. Hydrostatic Pressure 2850# - Flowing Pressure 0# - 15 minute BHP 375#.

No. 2, 10-2-51 - 1-1/2 Hours Johnston Drill stem Test 6276' - 6390' with 5/8" choke at 6253' - Used 2 packers at 6268' & 6276. Bombs at 6386' & 6358'. Tool opened 11:45 PM 10-2-51. Medium blow of air throughout test. Recovered 240' fluid, 45' free oil and 195' oil and gas cut mud, 30% oil. Hydrostatic Pressure 2900#, Flowing Pressure 0#, 15 minute BHP 925#.

No. 3, 10-3-51 - 1 1/2 Hour Johnston Drill Stem Test 6390' - 6515' with 5/8" choke at 6373'. Used 2 packers at 6382 & 6390'. Bombs at 6511' & 6513'. Tool opened at 11:00 AM 10-3-51. Strong blow of air - Gas to surface in 25 minutes, 69,000 cu.ft. (24 hrs.). Recovered 780' oil and gas cut drilling mud, 80% oil. Hydrostatic Pressure 3050#, Flowing Pressure 275#, 15 minutes BHP 1130#.

No. 4, 10-4-51 - 1 1/2 Hour Johnston Drill Stem Test 6515' - 6605' with 5/8" choke at 6499'. Used 2 packers at 6507' & 6515', Bombs at 6601' & 6603'. Tool open 10:50 AM 10-4-51. Small blow of air - Gas to surface in 1 hour 25 minutes - Too small to measure. Recovered 220' oil and gas cut drilling mud, 30% oil, no water. Hydrostatic Pressure 2900#, FP 0#, 15 minute BHP 0#.

No. 5, 10-5-51 - 1 1/2 Hour Johnston Drill Stem Test 6605' - 6692' with 5/8" choke at 6591'. Used 2 packers at 6597' & 6605'. Bombs at 6688' & 6690'. Tool opened at 10:50 AM 10-5-51. Medium blow of air throughout test. Recovered 195' oil and gas cut mud, 20% oil, no water - Hydrostatic Pressure 3000#, Flowing Pressure and 15 minute BHP 0#.

No. 6, 10-6-51 - 1 1/2 Hour Johnston Drill Stem Test 6692' - 6817' with 5/8" choke at 6678'. Used 2 packers at 6684' & 6692'. Bombs at 6813' & 6815'. Tool opened 6:15 PM 10-6-51. Gas to surface in 10 minutes (24 hour volume 390,000 cu. ft.) Recovered 577' fluid, 397' oil and gas cut mud, 50% oil, & 180' oil and gas cut mud, 90% oil, no water. Hydrostatic Pressure 307# - Flowing Pressure 175#, 15 minute BHP 2775#.

No. 7, 10-8-51 - 1 1/2 Hour Johnston Drill Stem Test 6816' - 6935' with 5/8" choke at 6802' - Used 2 packers at 6808' & 6816'. Bombs at 6931' & 6933'. Tool open 6:30 AM 10-8-51. Gas to surface 14 minutes (24 hour rate 61 MCF) Recovered 490' fluid, 145' free oil, 345' oil and gas cut mud, 40% oil, no water. Hydrostatic Pressure 3325# - Flowing Pressure 0# - 15 minute Closed In 2325#.

No. 8, 10-10-51 - 1 Hour Johnston Drill Stem Test 6935' - 7060' with 5/8" choke at 6921'. Used 2 packers 6927' & 6935'. Bombs at 7055' & 7056'. Tool open at 6:15 AM 10-10-51. Small blow air for 1/2 hour and died. Recovered 120' slightly gas cut mud, no oil or water, Hydrostatic Pressure 3250# - Flowing Pressure and Closed In Pressure 0#.

No. 9, 10-16-51 - 2 Hour Johnston Drill Stem Test 7640' - 7674' with 5/8" choke at 7643'. Used 2 packers at 7630' & 7640'. Bombs at 7671 & 7673. Tool open at 1:00 AM 10-16-51. Gas to surface in 30 minutes, too small to measure, Recovered 240' oil and gas cut drilling mud, 30% oil. Hydrostatic Pressure 3090# - Flowing Pressure 0#, 15 minute Closed In Pressure 2425#. Medium blow of air throughout test

No. 10, 10-18-51 - 1 Hour Johnston Drill Stem Test 7725' - 7850' with 5/8" choke at 7703' - Used 2 packers at 7717' & 7725' - Bombs at 7847' & 7849'. Tool open at 7:20 AM 10-18-51. No gas or fluid to surface. Weak blow of air 45 minutes and died. Recovered 360' drilling mud, no oil, gas or water. Hydrostatic Pressure 3228# - Flowing Pressure and Closed In Pressure 0#.

No. 11, 11-9-51 - 1 Hour Johnston Drill Stem Test 8693' - 8818' with 5/8" choke at 8673'. Used 2 packers at 8685' and 8693'. Bombs at 8814' and 8816'. Tool open 2:15 AM 11-9-51. Medium blow of air throughout test, no gas. Recovered 160' oil and gas cut mud, cut 5% oil. Hydrostatic Pressure 3250# - Flowing Pressure 0#, 15 minute BHP 200#.

No. 12, 11-11-51 - 1 Hour Johnston Drill Stem Test 8818' - 8943' with 5/8" choke at 8798'. Used 2 packers at 8810' & 8818'. Bombs at 8939' and 8941'. Tool open 12:15 AM 11-11-51. Good blow of air throughout test, no gas, Recovered 1320' salty sulphur water, cut mud, 120' oil stain salty sulphur water. Hydrostatic Pressure 4450# - Flowing Pressure 600# - 15 minute BHP 3250#.

No. 13, 11-30-51 - 1 Hour Johnston Drill Stem Test 9745' - 9870' with 5/8" choke at 9725'. Used 2 packers at 9737' & 9745'. Bombs at 9866' and 9868'. Tool open 10:10 AM 10-30-51, Slight blow of air throughout test, no gas. Recovered 750' fluid, 210' salty cut mud, 540' salt water, no oil. Hydrostatic Pressure 4900#. Flowing Pressure 450# - 15 minute BHP 3075#.

No. 14, 12-6-51 - 45 minute Johnston Drill Stem Test 10,050' - 10,110' with 5/8" choke at 10,030'. Used 2 packers at 10,042' and 10,050' - Bombs 10,106' & 10,108'. Tool open 8:45 AM 12-6-51 - Slight blow of air for 10 minutes and tied - Recovered 20' drilling mud, no show - Hydrostatic Pressure 4875# - Flowing Pressure and 15 minute BHP 0#.

No. 15, 12-9-51 - 1 Hour 30 minute Johnston Drill Stem Test 10,168' - 10,210' with 5/8" choke at 10,148' - Used 2 packers at 10,160' & 10,168'. Bombs at 10,206' & 10,208'. Tool open 1:30 AM 12-9-51. Medium blow air throughout test, no gas - Recovered 275' fluid, 100' clean oil, 175' gas cut mud, no water - Hydrostatic Pressure 5025# - Flowing Pressure and 15 minute BHP 0#.

No. 16, 12-11-51 - 1 Hour 30 Minute Johnston Drill Stem Test 10,254' - 10,280' with 5/8" choke at 10,234' - Used 2 packers at 10,246' and 10,254'. Bombs at 10,276' and 10,278'. Tool open 6:25 AM 12-11-51 Gas to surface in 12 minutes, too small to measure - Recovered 7355' fluid, 7250' of clean oil, no water 105' oil and gas cut mud, 50% oil - Hydrostatic Pressure 5275# - Flowing Pressure 1075# - 15 minute BHP 3450#.

No. 17, 12-13-51 - 1 Hour 45 minute Johnston Drill Stem Test 10,280' with 5/8" choke at 10,260'. Used 2 packers at 10,272' & 10,280' - Bombs at 10,306' and 10,308' - Tool open at 5:15 AM 12-13-51 - Gas to surface 12 minutes, mud 50 minutes, oil 55 minutes - Flowed 65 bbls, 44.0 gravity at 70° of clean oil .5% BS 50 minutes. Gas Volume 727,000 cu. ft. Hydrostatic Pressure 4875# - Flowing Pressure 3375# - 15 minute BHP 3875#.

