

DRILL STEM TESTS

No. 1, 1-11-52 - 1 Hour Halliburton Drill Stem Test 9210-9250' with 5/8" choke at 9180' - Used 2 packers at 9202' and 9210' - Bombs at 9175' and 9247' - Tool open at 10:50 AM 1-11-52 - Gas to surface in 14 minutes (24 hour rate 59,100 cu. ft.) Gas too small to measure 30 minutes and at end of test - Reverse circulated out 2 bbls oil and gas cut mud - Cut 10% oil and 15 bbls 40.5 gravity clean oil - Hydrostatic pressure 4400# - Flowing Pressure 1100# - 15 minute BHP 3400#.

No. 2, 1-13-52 - 1 Hour Halliburton Drill Stem Test 9250 - 9290' with 5/8" choke at 9212'. Used 2 packers at 9242' and 9250' - Bombs at 9228' and 9289' Shaffer mechanical jars at 9237' - Tool open at 4:00 AM 1-13-52 - Gas to surface 40 minutes, too small to measure - Recovered 900' fluid - 420' 41.0 gravity clean oil and 480' sulphur water - Hydrostatic Pressure 4130# - Flowing Pressure 50-280# - 15 minute BHP 3305#.

No. 3, 1-14-52 - 1 Hour Halliburton Drill Stem Test 9290-9330' with 5/8" choke at 9258' - Used 2 packers at 9282 and 9290' - Bombs at 9270' and 9329' - Shaffer mechanical jars at 9273' - Tool open 3:20 AM 1-14-52 - Good blow of air throughout test, no gas - Recovered 390' fluid - 60' oil and gas cut mud, 70% oil and 330' sulphur water - hydrostatic pressure 4150# - Flowing Pressure 0-110# - 15 minute BHP 3280#.

No. 4, 1-18-52 - 1 Hour Johnston Drill Stem Test 9370-9468' with 5/8" choke at 9352' - Used 2 packers 9364' and 9370' - Bombs at 9464' and 9466' - Bowen mechanical jars at 9353' - Tool open 12:40 PM 1-18-52 - Good blow of air for 5 minutes and gradual decrease and dead 50 minutes - Recovered 1800' of sulphur water - 90' drilling mud - Hydrostatic Pressure 4050# - Flowing Pressure 275#-3700# - 15 minute BHP 3700#.

No. 5, 4-19-52 - 1 Hour 30 Minute Johnston Drill Stem Test 12,150-12,170' with 5/8" choke at 12,135' - Used 2 packers at 12,142' and 12,150' - Bombs at 12,167' and 12,169' - Tool opened 5:20 PM 4-19-52 - Gas to surface 47 minutes 1300 cu. ft. No fluid - Recovered 215' fluid, 155' oil and gas cut mud - cut 60% oil, 61' of 46.0 gravity clean oil - Hydrostatic Pressure 5950# - Flowing Pressure 100# - 15 minute BHP 1000#.

No. 6, 4-22-52 - 2 Hour Johnston Drill Stem Test 12,170-12,267' with 5/8" choke at 12,150' - Used 2 packers at 12,162' and 12,170' - Bombs at 12,264' and 12,266' - Tool opened at 5:00 AM 4-22-52 - Gas to surface 10 minutes (24 hour rate 35,900 cu.ft.) No fluid to surface - Recovered 510' fluid, 510' oil and gas cut drill mud - Cut 50% oil - No water - Hydrostatic Pressure 5900# - Flowing Pressure 100# 15 minute BHP 850#.

No. 7, 4-23-52 - 1 Hour Johnston Drill Stem Test 12,267-12,370' with 5/8" choke at 12,236' - Used 2 packers at 12,259' and 12,267' - Bombs at 12,367' and 12,369' Tool opened 2:15 PM 4-23-52 - No gas to surface - Good blow air at start, decreased to weak blow at end of test - Recovered 115' oil and gas cut mud, cut 5% oil - No water - Hydrostatic Pressure 6025# - Flowing Pressure 0# - 15 minute BHP 725#.

No. 8, 4-26-52 - Johnston Drill Stem Test - Misrun.

No. 9, 4-27-52 - Johnston Drill Stem Test - Misrun.

No. 10, 4-28-52 - 2 Hour Halliburton Drill Stem Test 12,374-12,470' with 5/8" choke at 12,341' - Used 2 packers at 12,366 and 12,374' - Bombs at 12,346' and 12,467' - Tool opened 4:00 AM 4-28-52 - Gas to surface 19 minutes (24 hour rate 16,900 cu. ft.) No fluid - Recovered 1710' fluid, 360' gas cut mud, 900' oil and gas cut mud, cut 40% oil, 450' 45.0 gravity clean oil, no water - Hydrostatic Pressure 5610# - Flowing Pressure 235-518# - 15 minute BHP 1265#.

No. 11, 4-30-52 - 1 Hour Johnston Drill Stem Test 12,470 - 12,550' with 5/8" choke at 12,442' - Used 2 packers at 12,462' and 12,470' - Bombs at 12,547' and 12,549' Tool opened 9:40 AM 4-30-52 - No gas to surface, medium blow of air throughout test - Recovered 450' slightly gas cut drilling mud, no show oil or water - Hydrostatic Pressure 6000# - Flowing Pressure 0# - 15 Minute BHP 500#.

No. 12, 5-4-52 - 1 Hour Johnston Drill Stem Test 12,550-12,643' with 5/8" choke at 12,527' - Used 2 packers at 12,542' and 12,550' - Bombs at 12,640' and 12,642' Tool opened 5:00 AM 5-4-52 - No gas or fluid to surface - Weak blow air for 25 minutes and dead remainder of test - Recovered 35' drilling mud, no show oil, gas or water - Hydrostatic Pressure 6100# - Flowing Pressure and 15 Minute BHP 0#.

No. 13, 5-6-52 - 1 Hour Johnston Drill Stem Test 12,643-12,743' with 5/8" choke at 12,608' - Used 2 packers at 12,642' and 12,628' - Bombs at 12,740' and 12,742' Tool open 12:01 PM 5-6-52 - Gas to surface 17 minutes 22,700 cu. ft. - Decreased to light blow at end of test - No fluid to surface - Took 15 minute BHP attempted to unseat packer - Packer stuck.

