E. C. HILL #3

DRILL STEM TESTS

No. 1, 7-6-52 - 2 Hour Johnston Drill Stem Test 7130-7245' with 5/8" choke at 7105' - Used 2 packers at 7130' and 7124' - Bombs at 7244' and 7242' - Tool opened 7:30 AM 7-6-52 - Gas to surface 20 minutes, too small to measure - No fluid to surface - Recovered 200' fluid, 20' mud, 180' oil and gas cut mud - Cut with trace of oil - Hydrostatic Pressure 3400# - Flowing Pressure 100# - 15 Minute BHP 1200#.

No. 2, 7-8-52 - 2 Heur Johnston Drill Stem Test 7245-7330' with 3/4" choke at 7220' - Used 2 packers at 7245' and 7239' - Bombs at 7329' and 7327' - Tool opened 2:15 AM 7-8-52' - Gas to surface 10 minutes (24 hour rate 8,400 cu.ft.) Recovered 1350' fluid, 90' mud, 630' oil and gas cut mud, cut 25% oil, 630' water slightly salty - Hydrostatic Pressure 3575# - Flowing Pressure 675# - 15 minute BHP 1500#.

No. 3, 7-9-52 - 1 Hour Johnston Drill Stem Test 7330-7395' with 3/4" choke at 7305' - Used 2 packers at 7330' and 7324' - Bombs at 7394' and 7392' - Tool opened 2:15 PM 7-9-52 - No water blanket - Gas to surface 20 minutes, too small to measure - No fluid - Recovered 3600' fluid, 1800' Est. 50% salt water 40% mud, 10% oil - 1500' 70% salt water 30% mud, 300' clean salt water - Hydrostatic 3525# - Flowing Pressure 1050# - 15 minute BHP 2000#.

No. 4, 7-20-52 - 1 Hour Johnston Drill Stem Test 8030-8130' with 3/4" choke at 8005' - Used 2 packers at 8024' and 8030' - Bombs at 8126' and 8128' - Tool opened 3:30 PM 7-20-52 - No gas - Small blow air throughout test - Recovered 510' fluid, 90' drilling mud, 420' oil and gas cut mud, cut 1% oil - Hydrostatic Pressure 3700# - Flowing Pressure 150# - 15 minute BHP 3025#.

No. 5, 8-3-52 - Johnston Drill Stem Test 8994-9094' - Misrun.

No. 6, 8-4-52 - 1 Hour Johnston Drill Stem Test 9006-9049' with 3/4" choke at 8981' - Used 2 packers at 9000' and 9006' - Bombs at 9090' and 9092' - Tool opened 8:20 AM 8-4-52 - No Gas - Small blow of air throughout test - Recovered 90' mud, no show - Hydrostatic Pressure 4750# - Flowing Pressure 0# - 15 minute BHP 0#.

No. 7, 8-15-52 - 2 Hour Johnston Drill Stem Test 9465-9565' with 5/8" choke at 9440' - Used 2 packers at 9459' and 9465' - Bombs at 9563' and 9561' - Tool opened 12:45 AM 8-15-52 - No water blanket - Gas to surface in 12 minutes, 182;000 cu.ft. - No fluid - Reversed out to pits 1440' fluid; oil and gas cut mud, estimated 90' oil and gas cut mud, cut 50% oil, 90' mud, 1260' clean oil and 270' oil and gas cut mud below circulating sub - cut 50% oil - Hydrostatic Pressure 5100# - Flowing Pressure 600# - 15 minute BHP 3100#.

No. 8, 8-17-52 - Drill Stem Test - Misrun.

No. 9, 8-18-52 - $2\frac{1}{2}$ Hour Johnston Drill Stem Test 9565-9650; with 5/8" choke at 9536' - Used 2 packers at 9551' and 9565' - Bombs at 9646' and 9648' - Tool opened 2:30 AM - Good blow of air 1 hour, decreased gradually to end of test - Recovered 2565' 41 gravity clean oil, 400' oil and gas cut mud, cut 5% oil - No water - Hydrostatic Pressure 4525# - Flowing Pressure 300 - 950# - 15 min- ute BHP 3475#.

No. 10, 8-20-52 - 3 Hour Johnston Drill Stem Test 9650-9737' with 5/8" choke at 9625' - Used 2 packers at 9644' and 9650' - Bombs at 9733' and 9735' - Tool opened 11:30 AM 8-20-52 - No water blanket - Gas to surface in 5 minutes - 527,000 cuft. - Mud in 1 hour 50 minutes, oil in 2 hours - Flowed 28 bbls clean oil in 1 hour - Reversed 37 bbls oil, no water - 330' oil and gas cut mud below circulating sub, cut 5% oil - Hydrostatic Pressure 4900# - Flowing Pressure 1675# 15 minute BHP 3575#.

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