S. J. Carr #5

DEVIATIONS - TOTCO SURVEYS

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		DEVIATIONS - TOTO SURVEYS	
DEPTH 90' 190 319 450 970 1220 1520 1680 2325 2470 2580 2755 2917 3070 3200 3140 3200 3320 3405 3538 3651 3705 3875 3970 4130 4546 4800 5150 5455 55455 5570 5675 5770 5860	$\begin{array}{c} \underline{\text{DEG.OFF}}\\ 1/4\\ 1/4\\ 0\\ 3/4\\ 1\\ 1/2\\ 3/4\\ 1/2\\ 3/4\\ 1/2\\ 2-1/2\\ 2-1/2\\ 2-1/4\\ 2-1/2\\ 2-1/2\\ 2-1/4\\ 2-1/2\\ 2-1/2\\ 1-1/2\\ 1-1/2\\ 1-1/2\\ 1-1/2\\ 1-1/4\\ 1\\ 3/4\\ 1/2\\ 1-2\\ 1-1/4\\ 1-3/4\\ $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

S. J. Carr #5

DRILL STEM TESTS

No. 1 - 12-15-52 - 1 Hour Johnston Drill Stem Test from 5550-5675' with 5/8" choke at 5527' - Packers at 5542' and 5550' - Bombs at 5671' and 5673' - Tool opened 9:45PM 12-15-52 - Weak blow air 20 minutes and dead 40 minutes - Recovered 30' drilling mud, no show, no water - Hydrostatic Pressure 3075# - Flowing Pressure 0# - 15 Minute BHP 0#.

No. 2 - 12-23-52 - 1-1/2 Hour Johnston Drill Stem Test from 6360-6485' with 5/8" choke at 6335' - Packers at 6351' and 6360' - Bombs at 6481' and 6483' - Tool opened 5:05AM 12-23-52 - Used no blanket - No gas or fluid to surface, weak blow of air thruout test - Recovered 1170' fluid, 270' drilling mud and 900' sulphur water - Hydrostatic Pressure 3250# - Flowing Pressure 500# - 15 Minute BU 2000#.

No. 3 - 1-5-53 - 1 Hour Johnston Drill Stem Test from 7379-7504' with 5/8" choke at 7355' - Packers at 7372' and 7379' - Bombs at 7502' and 7500' - Tool opened 7:45PM 1-5-53 - Very weak blow air 10 minutes, dead 50 minutes - Recovered 20' drilling mud, no shows - Hydrostatic Pressure 3675# - Flowing Pressure 0# - 15 Minute BHP 0#.

No. 4 - 2-8-53 - 1-1/2 Hour Johnston Drill Stem Test from 9065-9131' with 5/8" choke at 9041' - Packers at 9057' and 9065' - Bombs at 9127' and 9129' - Tool opened 4:35AM 2-8-53 - Medium blow air for 30 minutes and dead remainder of test -Recovered 150' oil and gas cut drilling mud, cut 50% oil and 90' clean oil, no water - Hydrostatic Pressure 4800# - Flowing Pressure 0# - 15 Minute BHP 575#.

No. 5 - 3-10-53 - 2-1/2 Hour Johnston Drill Stem Test - Misrun.

No. 6 - 3-11-53 - 15 Minute Johnston Drill Stem Test from 10211-10203' with 5/8" choke at 10187' - Packers at 10211' and 10203' - Bombs at 10338' and 10339' - Tool opened 3:15AM 3-11-53 - Gas to surface in 8 minutes, 24 hour rate, 125,700 cu. ft. - Packer failed after 15 minutes.

No. 7 - 3-12-53 - 7 Hour Johnston Drill Stem Test from 10280-10345' with 5/8" choke at 10255' - Packers at 10272' and 10280' - Bombs at 10341' and 10343' - Tool opened 3:34AM 3-12-53 - Used no blanket - Gas to surface in 7 minutes, 24 hour rate, 382, 600 cu. ft. - Mud to surface in 1 hour 55 minutes - Oil to surface in 2 hours -Flowed 83.83 bbls of 45 gravity clean oil and no water in 5 hours - 11 bbls of oil reversed out - Blow off 6 bbls after closing tool - Recovered 17' clean oil -Hydrostatic Pressure in 5050#, out 4975# - Flowing Pressure initial 300#, final 1175# - 15 minute BU 3225#.

No. 8 - 3-14-53 - 6 Hour Johnston Drill Stem Test from 10345-10445' with 5/8" choke at 10318' - Packers at 10338' and 10345' - Bombs at 10443' and 10441' - Tool opened 10:35AM 3-14-53 - No water blanket - Gas to surface 8 minutes, 24 hour rate, 1,126, 100 cu. ft. - Mud to surface in 50 minutes, oil in 60 minutes, - Flowed 270 bbls 45 gravity clean oil in 5 hours - Bleed off to tank 21 bbls oil, reversed out 9 bbls oil - Total oil recovered 300 bbls - Hydrostatic Pressure 5300# - Flowing Pressure 1525-2725# - 15 Minute BHP 3400#.

No. 9 - 3-16-53 - 6-1/4 Hour Johnston Drill Stem Test from 10445-10510' with 5/8" choke at 10422' - Packers at 10438' and 10445' - Bombs at 10427' and 10508' - Tool opened at 10:15AM 3-16-53 - No water blanket - Gas to surface 8 minutes, 24 hour rate, 759,000 cu. ft. throut test - Mud in 1 hour 9 minutes, oil in 1-1/4 hours - Flowed 190 bbls 45 gravity clean oil, no water 5 hours - Reversed out 34 bbls oil - Total oil recovered 224 bbls - Hydrostatic Pressure 5120# - Flowing Pressure 725# to 2085# - 15 Minute BHP 2840#.

No. 10 - 3-18-53 - 3 Hour Halliburton Drill Stem Test from 10510'-10570' with 5/8" choke at 10489' - Packers at 10502' and 10510' - Bombs at 10492' and 10568' - Tool opened 3:30AM 3-18-53 - No water blanket - Gas to surface in 12 minutes, 24 hour rate, 111,400 cu. ft. - Decreased to almost dead in 1-1/2 hours and started to increase at end of test - Recovered 5520' fluid, 2250' oil and gas cut drilling mud, cut 50% oil - 2700' clean oil, 570' sulphur water - Hydrostatic Pressure 5160# - Flowing Pressure 175-1095# - 15 Minute BHP 2850#.

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FORMATIONS CONTINUED

DEPTH 9214 9229 9240 9321 9329 9338 9355 9670 9714 9730 9738	FORMATION Lime & Chert Lime Lime & Chert Lime & Chert Lime & Shale Lime & Black Shale Lime & Shale Shale Shale & Lime Shale, Sand & Lime
9816	Shale, Sand & Lime Shale & Lime
9828 9854 10,083 10,094 10,110 10,130 10,279	Shale, Lime & Chert Shale w/Lime Streaks Lime & Shale Chert & Shale Sand, Lime & Shale Lime & Shale Shale