

DEVIATION - TOTCO SURVEYS

DEPTH	DEG. OFF	DEPTH	DEG. OFF	DEPTH	DEG. OFF
400'	1/2	2628'	2-1/2	2972'	3/4
740'	0	2660'	2-3/4	3035'	3/4
950'	1/4	2720'	2-1/4	3065'	1
1650'	3/4	2750'	2-1/4	3108'	3/4
1820'	3/4	2780'	1-3/4	3138'	3/4
2020'	3/4	2815'	1-3/4	3229'	1/2
2225'	1-1/4	2850'	1-3/4	3280'	3/4
2465'	3	2875'	1-1/2	3400'	1/2
2569'	2-3/4	2935'	1		

DRILL STEM TESTS

No. 1, 11-24-53 - 1 Hour Johnston Drill Stem Test from 2910-3010' with 3/4" choke at 2886' - Packers at 2903' & 2910' - Bombs at 3006 & 3008' - Tool opened 5:25 PM 11-24-53 - Gas to surface 1 min. 2,191,700 cu. ft. - Mud in 3 min., no oil - Gas Volume thruout test - No fluid recovered in drill pipe - Hydrostatic Pressure 1590# - Flowing Pressure 990# - 15 min. BHP 1185#.

No. 2, 12-1-53 - 1 Hour Johnston Drill Stem Test from 3260-3366' with 5/8" choke at 3235' - Packers at 3252' & 3260' - Bombs at 3362' & 3364' - Tool opened 6:45 AM 12-1-53 - Weak blow air 16 min., dead 44 min. - Recovered 45' drilling mud, no show oil, water or gas - Hydrostatic Pressure 1890# - Flowing Pressure 0# - 15 min. BHP 0#.

No. 3, 12-7-53 - 2 Hour Johnston Drill Stem Test from 3450-3540' with 1-5/8" choke at 3427' - Packers at 3450' & 3444' - Bombs at 3538' and 3536' - Tool opened 11:15 AM 12-7-53 - Good blow - Gas to surface 10 min - No fluid to surface - Gas Volume gradually decreased to amount too small to measure - Recovered 480' fluid, 120' drilling mud, 360' oil and gas-cut mud, cut 20% oil, no water - Hydrostatic Pressure 2200# - Flowing pressure 150 to 200# - 15 Min. EU 475#.