

DEVIATION - TOTCO SURVEY

<u>Depth</u>	<u>Deg. Off</u>	<u>Depth</u>	<u>Deg. Off</u>
216	1	4862	3/4
502	1/4	5048	1
1103	1/4	5165	1-1/8
1375	1/8	5375	3/4
1750	1/4	5511	1
2039	1/8	5625	0
2500	1	5880	1-1/8
2800	3/4	5973	3/4
3000	1	6098	0
3387	1-1/4	6303	1
3635	0	6376	1-1/4
3787	1-1/2	6500	1-1/8
3881	1	6725	1-1/4
4010	1	6804	1
4225	1	6990	1
4492	1/2	7115	0
4725	0	7150	1
4710	3/4		

DRILL STEM TESTS

No. 1. 4-15-53 - 2 Hour Johnston DST from 5645-5770' with 5/8" choke at 5614' - Packers at 5638' and 5645' Bombs at 5768' and 5766' - Tool opened 11:30 PM 4-14-53 - Used no blanket - Light blowair and gas throwout test - Gas to Surface 58 minutes, volume too small to measure, no fluid - Recovered 180' fluid, 180' slightly oil and gas cut drilling mud, cut with trace of oil - Hydrostatic Pressure 2600# - Flowing Pressure 100# - 15 Minute BHP 460#.

No. 2. 4-20-53 - 1 Hour Johnston DST from 6505-6630' with 5/8" choke at 6479' Packers at 6498 & 6505' Bombs 6628' & 6626' - Tool opened 10:15 PM 4-20-53 - Weak blow air thruout test - Recovered 110' gas cut mud, no shows HP 3125# FPO# - 15 Minute BHP 125#.

No. 3. 4-25-53 - 3 Hour Johnston DST from 6925-7050' with 5/8" choke opened 1:50 AM 4-25-53 - Gas to surface 11 Min., 12,800 Cu. Ft. decreased to light blow at end of test - Rec. 1260' fluid, 450' oil & gas cut drilling mud, cut 50% oil, 810' 42 gravity clean oil, no water - HP 3375# - FP 350 - 625# - 15 Min. BHP 2750 #.

No. 4. 4-26-53 - 3 Hour Johnston DST from 7050-7150' with 5/8" choke at 7024' Packers at 7143' & 7050' - Bombs at 7146' & 7148' - Tool opened 3: PM 4-26-53 Weak blow thruout test - Gas to surface in 1 1/2 hours too small to measure Rec. 210' fluid, 160' gas & oil cut drilling mud, cut 10% oil & 50' 41 gravity clean oil, no water - HP 3440# - FP 50# - 15 Min. BHP 460#.