

DEVIATION - TOTCO SURVEYS

<u>DEPTH</u>	<u>DEG. OFF</u>	<u>DEPTH</u>	<u>DEG. OFF</u>	<u>DEPTH</u>	<u>DEG. OFF</u>
315'	3/4	3560	2	4695	3
430	3/4	3700	2-1/2	4710	3
430	3/4	3775	2-1/4	4760	3
1030	1/2	3795	2-1/4	4870	2-3/4
1500	1/2	3860	2-1/2	4890	2-3/4
1780	3/4	3890	2-1/4	4945	2-3/4
2000	1-1/2	3950	2-1/2	5060	3
2250	1-3/4	4035	3-3/4	5085	2-3/4
2450	1-1/4	4065	3-1/4	5250	2-3/4
2640	3/4	4090	3-1/4	5320	3-1/4
2775	1/4	4185	3-3/4	5370	3-1/2
2865	1/2	4245	4	5440	3-3/4
3020	1	4265	4	5470	3-3/4
3110	1-1/4	4390	4	5500	3-1/2
3200	1-1/2	4445	3-3/4	5550	3-1/4
3285	1-3/4	4510	3-1/2	5590	3
3400	1-3/4	4535	3-1/2	5690	3-1/4
3460	2				

DRILL STEM TESTS

No. 1, 1-3-54 - 2-1/2 hour Howco DST from 5119-5240' with 1" choke at 5097' - Packers at 5111' & 5119' - Bombs at 5101' and 5238' - Tool opened 8:AM 1-3-54 - Good blow immediately - Gas to surface in 10 min., 24 hr rate 610,800 cu. ft. - Mud to surface in 24 mins, oil in 30 mins. - Flowed 87 bbls 40 gravity clean oil, no water in 2 hrs. - Reversed out 19 bbls. - HP 2375% - FP 1163-1915% - 15 min. BHP 1915%.

No. 2, 1-9-54 - 1 Hr. Johnston DST from 5660-5705' with 3/4" choke at 5642' - Packers at 5654 and 5660' - Bombs at 5704 and 5703' - Tool opened 8:09 PM 1-9-54 - Weak blow air in 10 min. - Dead in 50 min. - No gas or fluid to surface - Recovered 10' mud - HP 2625% - No BU pressure or FP obtained.

No. 3, 1-10-54 - 2 Hr. Johnston DST from 5660-5710' with 3/4" choke at 5632' - Packers at 5654 and 5660' - Bombs at 5708 and 5709' - Tool opened 1:30 PM 1-10-54 - Good blow immediately - Gas to surface in 5 mins., 24 hr. rate 125,700 cu. ft. - No fluid to surface - Recovered 700' fluid, 300' oil and gas cut mud cut 50% oil - Estimated 400' clean oil blew out of DP while pulling test - HP 2600% - FP 550% - 15 min. BU 1825%.

No. 4, 1-18-54 - 3 Hr. Johnston DST from 5610-5635' with 1/2" choke at 5606' - Packer at 5610' - Bombs at 5628' and 5629' - Tool opened 5:25 AM 1-18-54 - Strong blow air throughout test - No gas or fluid to surface - Recovered 2310' fluid, 110' oil and gas cut water, cut 5% oil, 1660' salt water, 540' sulphur water - HP 2675% - FP 250-1150% - 15 min. BU 1150%.

No. 5, 1-21-54 - 1-1/2 Hr. Johnston DST from 5612-5636' with 1/2" choke at 5608' - Packer at 5612' - Bombs at 5630' and 5629' - Tool opened 1:30 PM 1-21-54 - Strong blow air for 10 min., weak blow 20 mins. - Dead 1 hour - No gas or fluid to surface - Recovered 20' fresh water - HP 2450% - FP 0% - 15 min. BHP 0%.

No. 6, 1-31-54 - 1 Hr. Johnston DST from 5609-5633' with 1/2" choke at 5603'. Packer at 5609' - Bombs at 5634' and 5635' - Tool opened 6:AM 1-31-54 - Fair blow air 14 mins. - Dead 46 mins. - Recovered 15' fresh water - HP 2485% - FP 0% - BHP 0%.