

FORMATION RECORD

From	To	Formation
	8029	Shale & Lime
	8081	Shale
	8238	Lime
	8245	Lime & Chert
	8277	Lime

DEVIATIONS - TOTCO SURVEYS

<u>DEPTH</u>	<u>DEG. OFF</u>	<u>DEPTH</u>	<u>DEG. OFF</u>
320'	1	6110'	3/4
350'	1	6210'	1
500'	3/4	6240'	1
650'	3/4	6305'	3/4
865'	1	6360'	3/4
1400'	1/2	6425'	3/4
1550'	3/4	6480'	3/4
1700'	1/2	6525'	1/4
2005'	1	6585'	3/4
2206'	2	6690'	1
2421'	2-1/2	6770'	0
2535'	2-1/2	6800'	1/4
2685'	1-3/4	6845'	0
2809'	1-1/4	6910'	1/2
2990'	1	6970'	3/4
3165'	1/2	7030'	0
3345'	3/4	7090'	1
3515'	1/4	7150'	1
3730'	3/4	7205'	1/2
3970'	1/2	7270'	1/2
4050'	3/4	7330'	1
4175'	1/2	7386'	1/2
4320'	1/2	7425'	3/4
4410'	3/4	7465'	1
4520'	1/4	7510'	1-1/4
4670'	3/4	7555'	3/4
4930'	3/4	7605'	1/2
5215'	3/4	7700'	1/4
5350'	1/4	7755'	1/4
5450'	3/4	7825'	3/4
5545'	1/2	7890'	1-3/4
5655'	1-1/4	7935'	2-1/4
5790'	1	7985'	2-1/4
5900'	1	8025'	1-3/4
5990'	1-1/4	8065'	2

DRILL STEM TESTS

N. 1, 3-13-53 - 2 Hour Johnston Drill Stem Test from 6650-6775' with 5/8" choke at 6635' Packers at 6641' and 6650' - Bombs at 6771' and 6773' - Tool opened 6:AM 3-13-53 - Medium blow air thruout test - Recovered 500' drilling mud, cut 3% oil, no water - Hydrostatic Pressure 3200# - Flowing Pressure 225-350# - 15 Minute BHP 550#.

No. 2, 3-15-53 - 1 Hour Hohnston Drill Stem Test from 6850-6970' with 5/8" choke at 6823' - Packers at 6842' and 6850' - Bombs at 6966' and 6968' - Tool opened 7:35Am 3-15-53 - Very weak blow air thruout test - Recovered 550' fluid, 200' drilling mud, 350' slightly gas cut mud with trace of oil, no water - Hydrostatic Pressure 3400# - Flowing Pressure 0-375# - 15 Minute BHP 525#.

DRILL STEM TESTS

No. 3, 3-30-53 - 1 Hour Johnston Drill Stem Test from 8077-8180' with 5/8" choke at 8052' Packers at 8069' and 8077' - Bombs at 8176' and 8178' Tool opened 12:30PM 3-30-53 Used no blanket - No gas or fluid to surface, very weak blow of air 20 minutes, dead remainder of test - Recovered 75' oil and gas cut drilling mud cut 1% oil - Hydrostatic Pressure in 4125#, out 4125# - Flowing Pressure initial 0#, final 0# - 15 minute BU 0#.

No. 4, 4-2-53 - 1 Hour Johnston Drill Stem Test from 8180-8277' with 1/2" choke at 8155' - Packers at 8173' and 8180' - Bombs at 8273' and 8275' - Tool opened 10:AM 4-2-53 - Weak blow air 15 minutes and dead 45 minutes - Recovered 10' drilling mud, no show, no water - Hydrostatic Pressure 4125# - Flowing Pressure 0# - 15 Minute BHP 0#.