

11.11.11 AM 3 45

DEFLECTION TESTS

<u>FOOTAGE</u>	<u>DEGREES</u>	<u>FOOTAGE</u>	<u>DEGREES</u>
100	1/4	8440	1-1/4
300	1/2	8640	1-3/4
456	3/4	8895	1-1/4
763	1	9064	2
1100	1/2	9184	1-3/4
1756	1	9260	2
2144	3/4	9335	2-1/2
2451	1-1/2	9544	2
2830	1-1/2	9784	2-3/4
3068	1-3/4	10040	3
3207	1-3/4	10180	2-3/4
3463	1-1/2	10340	3
3802	1/4	10387	3-1/2
4430	1/2	10535	3
4806	1	10620	2-3/4
5093	3/4	10663	2-3/4
5643	1	10795	3
5828	1	10860	3
6328	3/4	11070	1-1/4
6800	3/4	11170	3/4
7090	1	11200	1
7358	1-1/4	11327	2-1/4
7787	1-1/4	11452	6
7855	1-1/2	11495	6-1/2
8105	1-1/2	11595	6
		11730	6

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DRILL STEM TEST: Ran Drill Stem Test Devonian from 11,650' to 11,730', no water blanket, 5/8" x 1/2" chokes, tool open 3 hours, good blow to surface when tool opened, gas to surface in 20 minutes at rate of 20 MCF/D. In 2 hours 13 MCF/D, at end of test, 13 MCF/D. Reversed out 95 bbls. oil, gravity 47 degrees at 60 degrees and 120' of heavily oil and gas cut mud, no water. 30 minute initial shut in pressure failed to record, flowing pressure initial 2155#, final 3620#, 1 hour final shut in pressure 4765#, hydrostatic pressure 5635# - 5605#, bottom hole temperature 176 degrees.