

DEFLECTION TESTS

<u>FOOTAGE</u>	<u>DEGREES</u>	<u>FOOTAGE</u>	<u>DEGREES</u>	<u>FOOTAGE</u>	<u>DEGREES</u>
765	1	5707	1-1/4	8655	1-1/2
1190	1/2	5904	1	8745	1-1/4
1593	1/2	6060	1	8860	1-1/4
1990	1/4	6247	1	9040	1-1/2
2344	1/2	6360	1	9155	1-1/2
2808	1-1/4	6490	1	9420	2
3070	1/2	6608	1	9560	2
3288	1/4	6788	1	9690	2-1/4
3705	3/4	6970	3/4	9805	1-3/4
3910	1/2	7155	1-1/2	9980	2
4058	1/2	7240	1-1/2	10060	2
4185	1/2	7345	1-1/4	10176	1-3/4
4318	1/2	7460	1-1/4	10244	2
4432	3/4	7550	1-1/4	10300	2
4570	1/4	7760	1-1/4	10495	1-1/2
4785	3/4	7880	1-1/4	10534	2
4900	1	8080	1	10616	1-1/2
5040	1	8270	1-1/4	10820	1-1/4
5215	1	8415	1	11010	2
5390	1	8590	1-1/2	11110	1/2
5535	1			11240	2

DRILL STEM TESTS

- # 1 Ran Drill Stem Test Kemnitz Line from 10,672' to 10,820', 1" surface, 5/8" bottom chokes, 1530' water blanket, tool open 5 hours, had weak air blow for 6 minutes, increased to fair blow in 40 minutes, gas to surface in 2 hours 25 minutes, volume too small to measure. Pulled tool, recovered 1530' slightly gas cut water blanket, 400' of oil, gas and salt water cut mud, 200' of salt water and 20' of free oil, 30 minute initial shut in pressure 3195#, flowing pressure initial 845#, final 995#, 1 hour final shut in pressure 2315#, hydrostatic pressure 5195#.
- # 2 Ran Drill Stem Test Seaman from 11,394' to 11,403', 5/8" surface and bottom chokes, 2000' water blanket, tool open 5 hours, had fair air blow immediately, increased to strong blow in 30 minutes, gas to surface in 55 minutes, volume too small to measure. Reversed out 2000' water blanket and 22 barrels oil. 30 minute initial shut in pressure 6970#, flowing pressure initial 965#, final 1745#, 1 hour final shut in pressure 7000#. Hydrostatic pressure initial and final 7030#.
- # 3 Ran Drill Stem Test Seaman 11,390' to 11,483', 5/8" x 1/4" chokes, 2000' bottom blanket, tool open 35 minutes, strong air blow immediately, water blanket to surface in 10 minutes, oil to surface in 15 minutes, 5 minutes flowed to pit to clean up, 15 minutes flowed to tank, 1/4" choke, 70 barrels oil, surface pressure 3300#. Separator would not handle flow and part of flow was by-passed to pit. Reversed out 35 barrels of oil, no water, 30' of mud cut oil below circulating sub, no water. 30 minute initial shut in pressure 7195#, flowing pressure initial 5035#, final 6830#, hydrostatic pressure initial 7390#, final 7475#.