

DEFLECTION TESTS

<u>FOOTAGE</u>	<u>DEGREES</u>	<u>FOOTAGE</u>	<u>DEGREES</u>
300	1/4	9175	1-1/2
1400	1/2	9463	1-3/4
2750	3/4	9600	1-1/2
3174	3/4	9838	1-3/4
3600	1-1/2	9972	1-3/4
4000	1-1/4	10154	1-1/2
4520	1/4	10296	1-1/2
4950	1/4	10422	1-1/2
5340	1/2	10518	1-3/4
6100	3/4	10688	1-3/4
7206	1/4	10825	1-1/2
7360	1/4	10951	1
7688	0	11128	1
8204	1/4	11246	1
8338	1/4	11358	1-1/4
8523	1/2	11510	1-1/2
8739	3/4	11512	1-1/4
8929	1-1/4	11648	1-1/4
8996	1-1/4	11780	1-1/2
9122	1-1/2	11862	1-1/4

DRILL STEM TESTS

- DST # 1: Ran DST # 1 from 9560' to 9600' Cisco, 1" x 5/8" chokes, no water blanket, tool open 3 hours, had good air blow immediately, gas to surface in 70 minutes, volume too small to measure. Recovered 372' of salt water and gas cut mud and 7271' of clear salt water. 30 minute initial shut in pressure 3575#, flowing pressure initial 2145#, final 3575#, 1 hour final shut in pressure 3575#, hydrostatic pressure 4795#. Bottom hole temperature 152 deg.
- DST # 2: Ran DST # 2 from 9601' to 9644' Cisco, 5/8" x 1" chokes, no water blanket, tool open 1-3/4 hours, had very slight blow of air when tool opened. After 1/2 hour and 3/4 hour, closed and reopened tool. Recovered 60' of drilling mud, no oil, gas or water. Failed to get 30 minute initial shut in pressure. Flowing pressure initial 75#, final 75#, 1 hour final shut in pressure 805#, hydrostatic pressure 4830#-4815#. Bottom hole temperature 154 deg.
- DST # 3: Ran DST # 3 Devonian from 11,937' to 11,983', 1" x 5/8" chokes, no water blanket, tool open 3 hours, had good air blow throughout test. Recovered 2700' (34.77 barrels) of clean oil, gravity 43 deg. at 60 deg., and 400' of heavily oil and gas cut mud, 70% oil, no water. 30 minute initial shut in pressure 4660#, flowing pressure initial 125#, final 961#, 1 hour final shut in pressure 4639#, hydrostatic pressure 5750#. Bottom hole temperature 197 deg.
- DST # 4: Ran DST # 4 Devonian from 11,978' to 12,011', 1/4" x 1/2" x 5/8" chokes, no water blanket, tool open 3 hours, gas to surface in 38 minutes, mud in 39 minutes, oil in 48 minutes. 2 minutes flowed to pits to clean up, 40 minutes flowed on 1/2" choke, 66 barrels oil, surface pressure 150#, 1-1/2 hours flowed on 1/4" choke, 61.6 barrels oil, surface pressure 540#, shake-out 1/10% mud, gravity 44.4 deg. at 60 deg., gas volume too small to measure. Reversed out 132 bbls. oil, 2 hours freeing packers. Pulled out, recovered 1/2 gallon clean oil, no water, above tool. 30 minute initial shut in pressure 4730#, flowing pressure initial 1500#, final 4640#, 2-1/2 hour final shut in pressure 4730#, hydrostatic pressure 5890#-5845#. Bottom hole temperature 171 deg.