

Total Deviation Survey

<u>Depth</u>	<u>Degrees off Vertical</u>	<u>Depth</u>	<u>Degrees off Vertical</u>
1250	3/4	9603	3/4
1984	1/2	9751	1/2
2765	1/2	9790	3/4
3264	3/4	9894	1 1/4
4277	1/2	9920	1 1/4
4406	3/4	10000	1
4624	1/2	10217	1 1/4
4719	0	10363	2 1/4
5140	1/4	10444	2
5969	1	10612	1 1/2
6393	3/4	10708	1 1/2
6915	3/4	10750	2 1/2
7226	3/4	10860	2
7367	1/4	10931	2
7453	1/4	10997	1 3/4
7695	1	11086	1
8132	1/4	11151	2
8188	1/4	11206	2 3/4
8395	1	11282	2
8470	1/2	11590	2 1/4
8600	3/4	11726	3 1/4
8712	3/4	11726	3 3/4
8884	1/4	11773	3 3/4
8958	1/4	11817	5 1/2
9152	1 1/4	11862	5 1/2
9233	1 1/4	11912	5
9509	1	11951	4 1/2
9564	1	12085	2 1/2

Drill Stem Tests

No.	Date	From	To	No. Kind & Size of Perforations (or Open Hole)	Tool Set @	Chokes		Water Cushion	Time Tested
						Top	Bottom		
1	3/17/57	4810	4880	Open	4810	5/8"	1"	None	3 hrs.
(San Andres) Nothing to surface. Weak blow thru out. Recovered 150' slightly oil and gas cut drilling mud. Surface flowing pressure 0#, bottom hole flowing pressure 145-145#, 30 minutes Shut-in pressure 145#, hydrostatic head 2920-2930#.									
2	4/28/57	9670	9700	Open	9670	5/8"	1"	None	1 1/2 hrs.
(Bough "C") Nothing to surface. Recovered 55' of drilling mud, no shows. Surface flowing pressure 0#, bottom hole flowing pressure 70#, 30 minutes. Shut-in bottom hole pressure 70#, hydrostatic head 5295# in and out.									
3	6/3/57	11425	11443	Open	11425	5/8"	1"	None	3 hrs.
(Penn Sand) Nothing to surface. Recovered 30' slightly gas cut drilling mud. Surface flowing pressure 0#, bottom hole flowing pressure 40-40#, 30 minutes. Shut-in pressure 260#, hydrostatic head 5955-5920#.									
4	6/30/57	12145	12175	Open	12145	5/8"	1"	None	2 hrs.
(Devonian) Nothing to surface. Recovered 15' of drilling mud, no shows. Surface flowing pressure 0#, bottom hole flowing pressure 0#, 30 minutes. Shut-in pressure 0#, hydrostatic head 6630-6430#.									
5	7/3/57	12147	12182	Open	12147	5/8"	1"	None	3 1/2 hrs.
(Devonian) Nothing to surface. Recovered 30' of heavy oil cut drilling mud + 850' of free oil (Gravity 48 @ 60). Surface flowing pressure 0#, bottom hole flowing pressure 80-290#, 30 minutes. Shut-in pressure 4830#, hydrostatic head 6700# in and out.									