

Willburton Drilling System

Survey Report

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Date: 9/18/98

Wellpath ID: survey

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		DLS (dg/100ft)
10946.00	11.90	S 69.10 W	31.00	10854.95	853.00	216.84 S	825.01W	0.80
10977.00	12.10	S 68.50 W	31.00	10885.27	859.41	219.17 S	831.02W	0.76
11009.00	12.20	S 68.80 W	32.00	10916.56	866.11	221.62 S	837.29W	0.37
11041.00	11.80	S 69.00 W	32.00	10947.86	872.72	224.02 S	843.50W	1.26
11070.00	12.00	S 69.80 W	29.00	10976.23	878.68	226.12 S	849.10W	0.89
11101.00	12.10	S 70.70 W	31.00	11006.55	885.13	228.31 S	855.19W	0.69
11132.00	12.20	S 73.20 W	31.00	11036.86	891.64	230.33 S	861.39W	1.73
11164.00	12.90	S 75.50 W	32.00	11068.09	898.60	232.20 S	868.08W	2.69
11195.00	12.90	S 76.20 W	31.00	11098.31	905.52	233.89 S	874.79W	0.50
11226.00	12.00	S 76.10 W	31.00	11128.58	912.20	235.49 S	881.28W	2.90
11257.00	11.70	S 74.80 W	31.00	11158.92	918.56	237.09 S	887.44W	1.30
11289.00	11.40	S 73.40 W	32.00	11190.27	924.97	238.85 S	893.61W	1.28
11320.00	11.00	S 71.80 W	31.00	11220.68	930.98	240.65 S	899.35W	1.63
11351.00	11.00	S 70.10 W	31.00	11251.11	936.89	242.58 S	904.94W	1.05
11383.00	11.50	S 69.40 W	32.00	11282.50	943.10	244.74 S	910.80W	1.62
11414.00	11.50	S 69.80 W	31.00	11312.87	949.26	246.89 S	916.59W	0.26
11444.00	11.40	S 69.50 W	30.00	11342.28	955.19	248.96 S	922.18W	0.39
11474.00	11.10	S 71.20 W	30.00	11371.70	961.02	250.93 S	927.69W	1.49
11506.00	11.10	S 73.30 W	32.00	11403.10	967.18	252.81 S	933.55W	1.26
11536.00	11.90	S 74.70 W	30.00	11432.50	973.16	254.46 S	939.30W	2.82
11567.00	12.90	S 75.80 W	31.00	11462.78	979.81	256.15 S	945.74W	3.31
11597.00	13.70	S 76.80 W	30.00	11491.97	986.71	257.78 S	952.45W	2.77
11640.00	14.00	S 74.40 W	43.00	11533.72	997.00	260.34 S	962.41W	1.51
PROPOSED TARGET								
11660.00	14.00	S 74.40 W	20.00	11553.13	1001.84	261.64 S	967.07W	0.00
TOP OF STRAWN								
11670.00	13.90	S 74.40 W	10.00	11562.83	1004.25	262.29 S	969.40W	1.00
PROJECTED TO BIT								
11695.00	13.80	S 74.30 W	25.00	11587.11	1010.24	263.91 S	975.16W	0.41