

Hamiburton Drilling Systems

Survey Report

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Date: 10/19/1999
Wellpath ID: SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
11018.00	9.00	S 9.80 E	31.00	10988.06	330.85	321.95 S	77.75 E	2.02
11050.00	8.70	S 10.10 E	32.00	11019.67	335.74	326.80 S	78.60 E	0.95
11082.00	8.60	S 12.80 E	32.00	11051.31	340.54	331.52 S	79.55 E	1.31
11114.00	8.70	S 14.20 E	32.00	11082.95	345.34	336.20 S	80.68 E	0.73
11145.00	8.20	S 13.30 E	31.00	11113.61	349.89	340.62 S	81.76 E	1.67
11177.00	7.80	S 10.30 E	32.00	11145.30	354.33	344.98 S	82.67 E	1.81
11207.00	7.60	S 11.20 E	30.00	11175.03	358.33	348.93 S	83.42 E	0.78
11238.00	7.20	S 12.80 E	31.00	11205.77	362.31	352.83 S	84.25 E	1.45
11269.00	6.80	S 16.30 E	31.00	11236.54	366.09	356.49 S	85.20 E	1.89
11300.00	6.80	S 17.50 E	31.00	11267.32	369.76	360.00 S	86.26 E	0.46
11331.00	7.00	S 19.10 E	31.00	11298.10	373.48	363.54 S	87.43 E	0.89
11363.00	7.10	S 17.10 E	32.00	11329.85	377.41	367.27 S	88.65 E	0.83
11394.00	7.20	S 16.20 E	31.00	11360.61	381.26	370.97 S	89.76 E	0.48
11425.00	7.00	S 12.00 E	31.00	11391.37	385.09	374.68 S	90.69 E	1.79
11456.00	6.80	S 8.40 E	31.00	11422.15	388.79	378.34 S	91.35 E	1.54
11488.00	6.80	S 9.40 E	32.00	11453.92	392.55	382.09 S	91.94 E	0.37
11518.00	6.90	S 8.40 E	30.00	11483.71	396.10	385.62 S	92.49 E	0.52
11549.00	7.30	S 5.70 E	31.00	11514.47	399.88	389.42 S	92.96 E	1.68
11579.00	7.50	S 6.60 E	30.00	11544.22	403.68	393.26 S	93.38 E	0.77
11610.00	7.70	S 4.70 E	31.00	11574.95	407.71	397.34 S	93.78 E	1.04
11640.00	7.50	S 4.50 E	30.00	11604.69	411.60	401.30 S	94.10 E	0.67
LAST SURVEY @ 11,671' MD								
11671.00	7.50	S 2.70 E	31.00	11635.42	415.55	405.34 S	94.35 E	0.76
STRAIGHT LINE PROJECTION TO TD @ 12,050' MD								
12050.00	7.50	S 2.70 E	379.00	12011.18	463.64	454.75 S	96.68 E	0.00