

Hailiburton Drilling Systems

Survey Report

Page 2
Date: 10/19/1999
Wellpath ID: SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	DLS (dg/100ft)
2099.30	0.49	S 42.20 W	98.60	2099.18	-11.87	11.35 N 3.48W	0.24
2199.00	0.55	S 50.85 W	99.70	2198.88	-11.46	10.73 N 4.13W	0.10
2299.50	0.74	S 50.75 W	100.50	2299.37	-11.01	10.01 N 5.01W	0.19
2400.00	0.75	S 54.48 W	100.50	2399.86	-10.54	9.22 N 6.05W	0.05
2499.20	0.76	S 54.39 W	99.20	2499.05	-10.11	8.46 N 7.11W	0.01
2600.00	0.52	N 79.21 W	100.80	2599.85	-10.10	8.16 N 8.11W	0.55
2699.60	0.56	N 89.53 W	99.60	2699.44	-10.44	8.24 N 9.04W	0.11
2799.80	0.54	N 32.25 W	100.20	2799.64	-11.04	8.65 N 9.78W	0.53
2899.40	0.83	N 15.97 E	99.60	2899.23	-12.10	9.74 N 9.83W	0.62
2998.70	1.04	N 26.50 E	99.30	2998.52	-13.37	11.24 N 9.23W	0.27
3099.70	1.13	N 39.92 E	101.00	3099.50	-14.60	12.82 N 8.18W	0.27
3199.90	1.04	N 55.02 E	100.20	3199.68	-15.44	14.10 N 6.80W	0.30
3300.30	0.94	N 62.74 E	100.40	3300.07	-15.89	15.00 N 5.32W	0.17
3400.40	0.68	N 44.72 E	100.10	3400.16	-16.33	15.80 N 4.18W	0.36
3499.50	0.54	N 29.82 E	99.10	3499.25	-16.94	16.62 N 3.53W	0.21
3599.30	0.49	N 33.92 E	99.80	3599.05	-17.54	17.38 N 3.06W	0.06
3700.50	0.26	N 16.19 W	101.20	3700.25	-18.05	17.96 N 2.88W	0.38
3799.70	0.43	N 12.96 W	99.20	3799.45	-18.65	18.54 N 3.03W	0.17
3900.30	0.39	N 10.73 W	100.60	3900.04	-19.36	19.25 N 3.18W	0.04
4001.00	0.52	N 1.11 E	100.70	4000.74	-20.14	20.04 N 3.23W	0.16
4099.40	0.60	N 8.29 E	98.40	4099.13	-21.04	20.99 N 3.15W	0.11
4199.90	0.55	N 2.27 W	100.50	4199.63	-21.98	22.00 N 3.09W	0.12
4299.40	0.60	N 18.11 W	99.50	4299.13	-22.97	22.97 N 3.27W	0.17
4400.10	0.66	N 15.09 W	100.70	4399.82	-24.07	24.03 N 3.59W	0.07
4499.30	0.68	N 3.65 W	99.20	4499.01	-25.22	25.17 N 3.77W	0.14
4600.40	0.65	N 19.42 W	101.10	4600.11	-26.38	26.31 N 4.00W	0.18
4700.60	0.78	N 12.12 W	100.20	4700.30	-27.63	27.51 N 4.33W	0.16
4800.80	0.83	N 4.51 E	100.20	4800.49	-28.99	28.90 N 4.42W	0.24
4900.20	0.73	N 2.79 W	99.40	4899.88	-30.27	30.25 N 4.39W	0.14
4999.80	0.53	N 1.26 W	99.60	4999.47	-31.34	31.35 N 4.43W	0.20
5100.90	0.35	N 79.96 W	101.10	5100.57	-31.92	31.87 N 4.75W	0.57
5200.00	0.22	N 86.12 W	99.10	5199.67	-32.12	31.93 N 5.24W	0.13
5298.80	0.38	N 78.70 W	98.80	5298.47	-32.34	32.01 N 5.75W	0.17
5400.20	0.13	S 88.97 W	101.40	5399.87	-32.53	32.08 N 6.19W	0.25
5500.20	0.41	N 77.40 W	100.00	5499.87	-32.73	32.15 N 6.65W	0.29
5600.10	0.25	N 85.90 W	99.90	5599.76	-32.98	32.24 N 7.22W	0.17