

Halliburton 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)
5700.50	0.39	N 78.65 W	100.40	5700.16	-33.21	32.33 N	7.77W	0.14
5800.20	0.33	N 81.54 W	99.70	5799.86	-33.49	32.44 N	8.39W	0.06
5900.00	0.33	N 82.06 W	99.80	5899.66	-33.73	32.52 N	8.96W	0.00
5999.70	0.27	N 83.97 W	99.70	5999.36	-33.93	32.58 N	9.48W	0.06
6100.90	0.60	N 77.98 W	101.20	6100.55	-34.27	32.72 N	10.23W	0.33
6200.00	0.73	N 85.75 W	99.10	6199.65	-34.74	32.87 N	11.37W	0.16
6299.70	0.97	S 36.78 W	99.70	6299.34	-34.46	32.24 N	12.51W	0.85
6399.70	1.06	S 31.54 W	100.00	6399.32	-33.33	30.78 N	13.50W	0.13
6500.10	1.12	S 22.72 W	100.40	6499.70	-31.94	29.08 N	14.36W	0.18
6599.70	1.10	S 30.18 W	99.60	6599.29	-30.52	27.36 N	15.22W	0.15
6700.70	0.90	S 39.82 W	101.00	6700.27	-29.41	25.91 N	16.22W	0.26
6800.80	0.76	S 47.85 W	100.10	6800.36	-28.68	24.86 N	17.21W	0.18
6899.60	0.86	S 46.13 W	98.80	6899.15	-28.05	23.91 N	18.23W	0.10
7000.30	0.72	S 47.15 W	100.70	6999.84	-27.42	22.95 N	19.24W	0.14
7100.60	0.91	S 46.11 W	100.30	7100.13	-26.77	21.97 N	20.28W	0.19
7199.80	0.49	S 66.17 W	99.20	7199.32	-26.35	21.25 N	21.23W	0.48
7300.70	0.51	S 60.27 W	100.90	7300.22	-26.19	20.86 N	22.02W	0.05
7400.90	0.29	S 69.29 W	100.20	7400.42	-26.06	20.55 N	22.64W	0.23
7499.70	0.48	S 60.29 W	98.80	7499.21	-25.95	20.25 N	23.24W	0.20
7600.80	0.74	S 49.16 W	101.10	7600.31	-25.58	19.62 N	24.10W	0.28
7700.70	0.56	S 59.08 W	99.90	7700.20	-25.18	18.94 N	25.00W	0.21
7800.90	0.60	S 58.40 W	100.20	7800.40	-24.92	18.42 N	25.87W	0.04
7900.10	0.78	S 59.81 W	99.20	7899.59	-24.62	17.81 N	26.90W	0.18
8000.20	0.68	S 63.73 W	100.10	7999.68	-24.35	17.20 N	28.02W	0.11
8100.30	0.41	S 68.92 W	100.10	8099.78	-24.22	16.81 N	28.89W	0.27
8199.40	0.76	S 63.79 W	99.10	8198.87	-24.08	16.39 N	29.81W	0.36
8299.90	0.44	S 66.45 W	100.50	8299.37	-23.91	15.94 N	30.76W	0.32
8399.90	0.50	S 64.46 W	100.00	8399.36	-23.79	15.60 N	31.50W	0.06
BHA #1 @ 8530' 6 1/4" SPERRY-DRILL ABH - F57PS								
8500.60	0.66	S 61.65 W	100.70	8500.06	-23.60	15.14 N	32.41W	0.16
8600.80	0.54	S 65.28 W	100.20	8600.25	-23.41	14.66 N	33.35W	0.13
8700.90	0.84	S 66.38 W	100.10	8700.34	-23.25	14.17 N	34.45W	0.30
THE FOLLOWING ARE SPERRY-SUN MWD SURVEYS								
8748.00	1.00	S 31.70 W	47.10	8747.44	-22.93	13.68 N	34.98W	1.21
SIDETRACK @ 8767' MD								
8779.00	1.20	S 3.40 W	31.00	8778.43	-22.44	13.13 N	35.14W	1.84