

MDC Operations
 9900 West Interstate 20
 Midland, Texas 79706
 Phone (915) 563-3057
 Fax (915) 563-3059

Anadrill Schlumberger Survey Report 2/4/2000 6:00:54 PM

Magnetic Declination: 9.74 DEG

Tie In Point

(TIP):

Measured Depth 8620 FT.
 True Vertical Depth 8619.2 FT.
 Inclination .4 DEG
 Azimuth 22.9 DEG
 N/S Displacement(-ve for S) 53.28 FT.
 E/W Displacement(-ve for W) 26.55 FT.
 Azim. From Rotary Table To Target 165 DEG

Accepted Survey Listing:

M.Dept h (ft)	Int. (ft)	TVD (ft)	TargetS (ft)	Incl. (deg)	Azim (deg)	N.Disp (ft)	E.Disp (ft)	T.Disp (ft)	Clr.Ang (deg)	DLS (D/HF)
8681	61	8677.77	-33.54	28.2	124.7	45.1	38.73	59.45	40.65	46.37
8713	32	8703.34	-17.31	45.45	139.72	31.97	52.45	61.43	58.63	60.47
8728	15	8712.99	-6.82	54.43	142.45	23.04	59.64	63.93	68.88	61.46
8743	15	8721.02	5.13	60.83	149.07	12.57	66.74	67.91	79.34	56.62
8775	32	8734.31	33.55	70.09	156.65	-13.31	79.93	81.03	99.46	36.05
8806	31	8743.7	62.85	74.65	159.23	-40.68	91.01	99.69	114.09	16.71
8838	32	8752.43	93.51	73.67	160.39	-69.57	101.64	123.17	124.39	4.64
8869	31	8761.58	123.08	72.02	163.56	-97.73	110.81	147.75	131.41	11.13
8901	32	8771.54	153.49	71.73	165.78	-127.06	118.85	173.98	136.91	6.66
8933	32	8781.9	183.77	70.5	165.55	-156.39	126.35	201.05	141.07	3.9
8964	31	8792.39	212.93	69.95	165.76	-184.65	133.58	227.9	144.12	1.89
8996	32	8802.91	243.15	71.66	165.51	-213.92	141.08	256.26	146.6	5.39
9027	31	8812.05	272.76	74.05	166.58	-242.67	148.22	284.35	148.58	8.39
9059	32	8820.86	303.52	74	166.69	-272.6	155.33	313.75	150.33	0.37
9090	31	8829.51	333.27	73.6	167.11	-301.59	162.08	342.39	151.75	1.83
9122	32	8838.61	363.92	73.37	166.94	-331.49	168.97	372.07	152.99	0.88
9153	31	8847.21	393.69	74.4	167.3	-360.52	175.61	401.02	154.03	3.5
9184	31	8855.77	423.46	73.55	167.38	-389.59	182.14	430.07	154.94	2.75
9216	32	8864.91	454.1	73.24	167.16	-419.5	188.9	460.07	155.76	1.17
9247	31	8873.67	483.82	73.94	166.89	-448.48	195.58	489.27	156.44	2.41
9278	31	8882.43	513.54	73.24	166.6	-477.42	202.4	518.56	157.03	2.43
9310	32	8891.92	544.08	72.24	167.3	-507.19	209.3	548.68	157.58	3.76
9341	31	8901.33	573.59	72.4	167.5	-536.01	215.74	577.8	158.08	0.8
9373	32	8911.06	604.03	72.19	168.16	-565.81	222.17	607.86	158.56	2.07
9404	31	8920.27	633.59	73.26	168.32	-594.79	228.2	637.06	159.01	3.49
9435	31	8929.41	663.16	72.43	168.33	-623.8	234.19	666.31	159.42	2.68