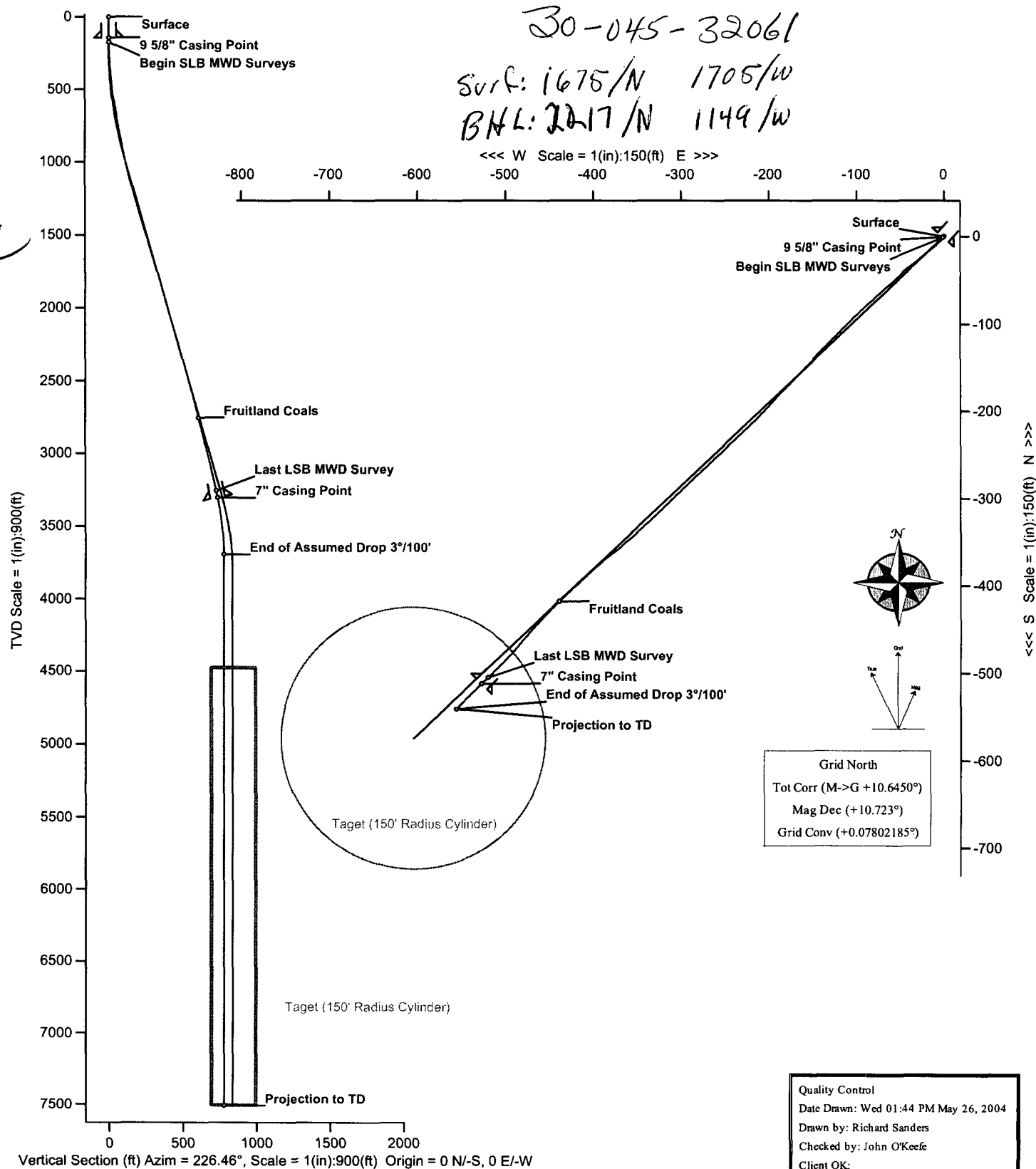


Well Hughes 6M	Field San Juan County, New Mexico	Rig Aztec 184
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Magnetic Parameters				Surface Location				Miscellaneous			
Model	BGGM 2003	Dip	63.641°	Date	May 26, 2004	Latitude	N36 41 57.000	Northing	2073837.68 ftUS	Grid Convergence	+0.07802185°
		Mag Dec	+10.723°	Field Strength	51438.8 nT	Longitude	W107 42 10.000	Easting	2761364.62 ftUS	Scale Factor	0.9999180000
								Borehole			
								Original Hole		TVD Reference	
								Plan		RKB (6445.00 ft above MSL)	
								Hughes 6M R0 jsk 03-Nov-03		Survey Date	
										May 26, 2004	



Report Date: May 26, 2004 Client: BP America Inc. Field: NM, San Juan County (NAD 83 WZ) Structure / Slot: BP 29-29N-8W (Hughes 6M) / Hughes 6M Well: Hughes 6M Borehole: Original Hole UW/API#: Survey Name / Date: Hughes 6M Final Surveys / May 2, 2004 Tort / AHD / DDI / ERD ratio: 47.228° / 777.42 ft / 4.570 / 0.104 Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet Location Lat/Long: N 36 41 57.000, W 107 42 10.000 Location Grid N/E Y/X: N 2073837.676 ftUS, E 2761364.623 ftUS Grid Convergence Angle: +0.07802185° Grid Scale Factor: 0.99991834	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 226.460° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 6445.0 ft relative to MSL Sea Bed / Ground Level Elevation: 6431.000 ft relative to MSL Magnetic Declination: 10.730° Total Field Strength: 51445.153 nT Magnetic Dip: 63.643° Declination Date: May 02, 2004 Magnetic Declination Model: BGGM 2003 North Reference: Grid North Total Corr Mag North -> Grid North: +10.652° Local Coordinates Referenced To: Well Head
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2073837.68	2761364.62	N 36 41 57.000	W 107 42 10.000
Begin SLB MWD Surveys	175.00	1.18	221.25	174.99	1.79	-1.35	-1.19	0.67	2073836.32	2761363.43	N 36 41 56.987	W 107 42 10.015
	236.00	2.35	214.91	235.96	3.65	-2.85	-2.32	1.94	2073834.82	2761362.31	N 36 41 56.972	W 107 42 10.029
	297.00	3.75	222.11	296.87	6.86	-5.36	-4.37	2.37	2073832.32	2761360.25	N 36 41 56.947	W 107 42 10.054
	359.00	4.63	225.84	358.70	11.38	-8.61	-7.53	1.49	2073829.07	2761357.10	N 36 41 56.915	W 107 42 10.093
	421.00	5.47	230.26	420.46	16.83	-12.24	-11.59	1.49	2073825.44	2761353.03	N 36 41 56.879	W 107 42 10.143
	481.00	6.45	231.39	480.14	23.05	-16.17	-16.43	1.64	2073821.51	2761348.20	N 36 41 56.840	W 107 42 10.202
	544.00	8.25	228.84	542.62	31.09	-21.35	-22.59	2.90	2073816.32	2761342.03	N 36 41 56.789	W 107 42 10.278
	608.00	8.85	232.61	605.91	40.57	-27.36	-29.96	1.28	2073810.31	2761334.66	N 36 41 56.730	W 107 42 10.368
	671.00	9.20	231.71	668.13	50.40	-33.43	-37.77	0.60	2073804.25	2761326.86	N 36 41 56.670	W 107 42 10.464
	735.00	9.65	228.79	731.26	60.86	-40.13	-45.82	1.03	2073797.55	2761318.81	N 36 41 56.604	W 107 42 10.563
	798.00	10.50	225.79	793.29	71.88	-47.61	-53.91	1.59	2073790.07	2761310.72	N 36 41 56.530	W 107 42 10.663
	862.00	11.30	230.89	856.14	83.96	-55.64	-62.95	1.96	2073782.04	2761301.68	N 36 41 56.451	W 107 42 10.774
	926.00	11.63	226.96	918.86	96.66	-63.99	-72.53	1.32	2073773.69	2761292.10	N 36 41 56.368	W 107 42 10.892
	989.00	12.13	228.04	980.51	109.63	-72.75	-82.09	0.87	2073764.93	2761282.54	N 36 41 56.282	W 107 42 11.009
	1053.00	12.80	226.96	1043.00	123.44	-82.09	-92.28	1.11	2073755.59	2761272.35	N 36 41 56.190	W 107 42 11.134
	1117.00	14.10	225.21	1105.25	138.32	-92.42	-102.99	2.13	2073745.26	2761261.64	N 36 41 56.088	W 107 42 11.266
	1244.00	15.73	224.19	1227.96	170.99	-115.66	-125.97	1.30	2073722.02	2761238.66	N 36 41 55.858	W 107 42 11.549
	1372.00	16.80	223.56	1350.84	206.80	-141.51	-150.81	0.85	2073696.18	2761213.82	N 36 41 55.603	W 107 42 11.854
	1499.00	17.02	223.86	1472.35	243.70	-168.21	-176.34	0.19	2073669.48	2761188.30	N 36 41 55.339	W 107 42 12.168
	1626.00	16.30	222.09	1594.02	280.04	-194.84	-201.17	0.69	2073642.85	2761163.47	N 36 41 55.076	W 107 42 12.473
	1753.00	16.73	226.31	1715.78	316.09	-220.69	-226.33	1.00	2073617.00	2761138.31	N 36 41 54.821	W 107 42 12.783
	1880.00	15.35	227.09	1837.83	351.18	-244.77	-251.86	1.10	2073592.93	2761112.78	N 36 41 54.583	W 107 42 13.097
	2006.00	16.30	226.46	1959.06	385.54	-268.30	-276.89	0.77	2073569.40	2761087.75	N 36 41 54.351	W 107 42 13.404
	2133.00	16.08	225.34	2081.02	420.95	-292.94	-302.32	0.30	2073544.76	2761062.33	N 36 41 54.107	W 107 42 13.717
	2260.00	16.45	225.94	2202.94	456.51	-317.81	-327.76	0.32	2073519.89	2761036.90	N 36 41 53.862	W 107 42 14.030
	2387.00	15.07	228.59	2325.16	491.00	-341.24	-353.06	1.23	2073496.47	2761011.59	N 36 41 53.631	W 107 42 14.341
	2514.00	15.50	231.51	2447.67	524.40	-362.72	-378.73	0.69	2073474.99	2760985.93	N 36 41 53.419	W 107 42 14.656
	2641.00	15.20	225.89	2570.15	557.95	-384.87	-403.96	1.19	2073452.84	2760960.69	N 36 41 53.200	W 107 42 14.967
	2769.00	14.18	226.89	2693.96	590.41	-407.26	-427.46	0.82	2073430.45	2760937.20	N 36 41 52.979	W 107 42 15.256
	2896.00	14.05	224.76	2817.13	621.37	-428.84	-449.67	0.42	2073408.87	2760914.99	N 36 41 52.766	W 107 42 15.529
	2992.00	12.80	222.01	2910.51	643.63	-445.02	-464.99	1.46	2073392.70	2760899.67	N 36 41 52.606	W 107 42 15.717
	3119.00	13.77	219.76	3034.11	672.66	-467.09	-484.08	0.87	2073370.62	2760880.59	N 36 41 52.388	W 107 42 15.952
	3247.00	13.13	224.16	3158.60	702.32	-489.23	-503.95	0.94	2073348.49	2760860.72	N 36 41 52.169	W 107 42 16.196
Last LSB MWD Survey	3347.00	13.32	225.36	3255.95	725.19	-505.47	-520.06	0.33	2073332.24	2760844.61	N 36 41 52.009	W 107 42 16.394
End of Assumed Drop 37100'	3791.00	0.00	225.36	3695.96	77 6.56	-541.57	-556.61	3.00	2073296.15	2760808.05	N 36 41 51.652	W 107 42 16.844
Projection to TD	7605.00	0.00	225.36	7509.96	776.56	-541.57	-556.61	0.00	2073296.15	2760808.05	N 36 41 51.652	W 107 42 16.844

Survey Type: Raw Survey

Survey Error Model: SLB ISCWSA version 16 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)	MD To (ft)	EQU Freq	Survey Tool Type
0.00	3347.00	Act-Stns	SLB_MWD-STD
3347.00	7605.00	Act-Stns	SLB_BLIND