



Weatherford®

SURVEY REPORT

Report Date: 9/4/2011
 Customer: Chesapeake
 Job Name: 4023592
 Well Name: Edwin Bunner #3H

Field: Edwin Bunner
 Rig: Nomac 37
 Rig Loc: Marion County

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	326.00 deg	52644 nT	67.12 deg	-8.96 deg	-0.32 deg	-8.64 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	2890.00 ft	0.19 deg	142.15 deg	2889.95 ft	-5.66 ft	4.90 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head			Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)			
3033.00	2.18	90.98	3032.91	-5.89	7.77	-9.23	1.44	
3096.00	2.87	97.36	3095.85	-6.12	10.53	-10.96	1.18	
3159.00	2.90	97.93	3158.77	-6.54	13.67	-13.07	0.07	
3223.00	2.74	102.96	3222.69	-7.11	16.77	-15.27	0.47	
3286.00	2.59	101.91	3285.63	-7.74	19.63	-17.39	0.25	
3350.00	2.33	100.06	3349.57	-8.26	22.33	-19.33	0.43	
3521.00	3.70	121.83	3520.33	-11.78	30.43	-26.78	1.03	
3637.00	3.30	133.74	3636.12	-16.06	36.03	-33.46	0.71	
3837.00	2.00	209.64	3835.95	-23.08	38.46	-40.64	1.71	
4026.00	4.20	282.64	4024.72	-24.43	30.07	-37.07	2.16	
4154.00	2.50	342.14	4152.53	-20.75	24.64	-30.98	2.84	
4279.00	1.70	340.04	4277.44	-16.41	23.17	-26.56	0.64	
4470.00	1.90	351.94	4468.35	-10.61	21.76	-20.96	0.22	
4661.00	2.40	17.34	4659.22	-3.66	22.51	-15.62	0.56	
4853.00	3.30	24.94	4850.98	5.19	26.04	-10.26	0.51	
5043.00	4.50	341.44	5040.58	17.22	25.97	-0.25	1.63	
5170.00	3.30	0.14	5167.28	25.60	24.39	7.58	1.37	
5297.00	6.30	331.14	5293.84	35.36	21.04	17.55	2.97	
5361.00	6.90	330.74	5357.42	41.79	17.46	24.88	0.94	
5424.00	9.20	331.74	5419.79	49.53	13.23	33.66	3.66	
5551.00	4.90	343.04	5545.81	63.66	6.84	48.96	3.54	
5678.00	1.60	269.04	5672.62	68.83	3.48	55.11	3.71	
5741.00	0.10	287.64	5735.61	68.83	2.55	55.64	2.39	
5932.00	0.80	153.34	5926.61	67.69	2.99	54.44	0.46	
6122.00	1.10	152.34	6116.58	64.89	4.43	51.32	0.16	
6313.00	1.50	168.54	6307.53	60.81	5.78	47.18	0.28	
6504.00	1.60	176.74	6498.46	55.70	6.43	42.58	0.13	
6691.00	1.50	166.72	6685.39	50.70	7.14	38.04	0.15	
6723.00	1.14	162.53	6717.39	49.99	7.33	37.35	1.18	
6754.00	0.20	157.64	6748.38	49.65	7.44	37.00	3.02	
6785.00	3.58	346.00	6779.36	50.54	7.23	37.85	12.19	
6817.00	7.03	344.16	6811.22	53.39	6.45	40.65	10.80	
6849.00	10.56	344.83	6842.84	58.10	5.15	45.29	11.03	
6880.00	12.80	343.45	6873.20	64.14	3.43	51.26	7.30	
6912.00	15.72	340.40	6904.21	71.62	0.97	58.84	9.41	

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Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
6942.00	18.32	332.94	6932.90	79.65	-2.54	67.46	11.31
6973.00	20.63	327.22	6962.12	88.59	-7.72	77.76	9.65
7005.00	24.62	324.74	6991.65	98.77	-14.62	90.06	12.82
7036.00	27.46	325.73	7019.50	109.96	-22.38	103.67	9.28
7067.00	31.60	326.31	7046.47	122.63	-30.91	118.95	13.39
7099.00	34.40	325.31	7073.30	137.04	-40.71	136.37	8.91
7131.00	38.89	322.78	7098.97	152.48	-51.94	155.45	14.80
7163.00	42.44	322.09	7123.24	169.00	-64.65	176.26	11.18
7194.00	47.18	320.98	7145.23	186.10	-78.24	198.04	15.51
7225.00	51.06	320.42	7165.51	204.23	-93.09	221.37	12.57
7256.00	56.03	320.42	7183.93	223.45	-108.97	246.18	16.03
7288.00	59.74	321.01	7200.94	244.42	-126.12	273.16	11.70
7319.00	61.60	320.76	7216.12	265.39	-143.17	300.08	6.04
7351.00	64.61	319.80	7230.60	287.34	-161.41	328.47	9.79
7382.00	68.13	319.47	7243.03	308.97	-179.80	356.69	11.40
7414.00	70.72	319.07	7254.27	331.67	-199.35	386.44	8.20
7445.00	73.51	319.14	7263.79	353.97	-218.66	415.73	8.97
7475.00	76.52	319.58	7271.55	375.96	-237.53	444.51	10.13
7506.00	80.41	319.97	7277.75	399.14	-257.14	474.70	12.63
7537.00	83.98	320.31	7281.96	422.71	-276.82	505.24	11.55
7568.00	87.63	320.07	7284.22	446.46	-296.61	536.00	11.82
7599.00	88.94	321.00	7285.15	470.38	-316.31	566.84	5.18
7661.00	91.06	322.75	7285.15	519.15	-354.58	628.67	4.42
7723.00	90.20	322.39	7284.47	568.38	-392.26	690.56	1.50
7786.00	90.94	325.04	7283.84	619.16	-429.54	753.50	4.36
7848.00	92.20	328.05	7282.15	670.86	-463.70	815.46	5.27
7910.00	89.69	329.53	7281.12	723.87	-495.82	877.38	4.70
7971.00	88.03	329.94	7282.34	776.54	-526.56	938.23	2.80
8034.00	89.91	332.77	7283.47	831.82	-556.75	1000.94	5.41
8095.00	88.66	331.36	7284.23	885.70	-585.32	1061.59	3.10
8157.00	85.64	330.43	7287.31	939.80	-615.44	1123.28	5.10
8221.00	84.01	329.28	7293.09	994.91	-647.45	1186.87	3.11
8284.00	85.13	326.33	7299.05	1047.98	-680.86	1249.55	5.00
8347.00	87.39	324.36	7303.16	1099.69	-716.60	1312.40	4.76
8410.00	88.49	323.42	7305.42	1150.55	-753.70	1375.32	2.29
8473.00	88.32	323.90	7307.18	1201.28	-791.02	1438.24	0.80
8537.00	89.05	324.32	7308.64	1253.12	-828.53	1502.19	1.32
8599.00	90.20	323.37	7309.05	1303.17	-865.11	1564.14	2.39
8661.00	90.20	323.45	7308.83	1352.95	-902.06	1626.08	0.12
8723.00	90.26	323.94	7308.58	1402.92	-938.77	1688.03	0.80
8787.00	91.86	324.98	7307.40	1454.98	-975.97	1751.99	2.98
8850.00	90.60	326.07	7306.05	1506.91	-1011.62	1814.97	2.64
8914.00	90.43	327.65	7305.48	1560.49	-1046.60	1878.96	2.47
8978.00	91.28	329.79	7304.52	1615.18	-1079.83	1942.88	3.61
9041.00	91.28	330.66	7303.12	1669.85	-1111.10	2005.69	1.37
9104.00	91.74	332.45	7301.45	1725.22	-1141.10	2068.37	2.93
9167.00	89.69	330.57	7300.67	1780.58	-1171.15	2131.07	4.42
9229.00	87.58	330.89	7302.15	1834.64	-1201.46	2192.83	3.44
9293.00	86.55	328.63	7305.43	1889.86	-1233.64	2256.61	3.87
9356.00	86.33	327.21	7309.34	1943.14	-1267.08	2319.45	2.27

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
9419.00	86.83	324.76	7313.09	1995.26	-1302.21	2382.33	3.97
9482.00	88.83	323.47	7315.48	2046.26	-1339.11	2445.25	3.76
9546.00	90.60	322.71	7315.80	2097.43	-1377.54	2509.16	3.01
9609.00	92.47	322.92	7314.11	2147.60	-1415.61	2572.04	3.00
9673.00	92.09	322.08	7311.57	2198.34	-1454.54	2635.87	1.44
9736.00	92.20	322.14	7309.21	2248.02	-1493.20	2698.68	0.21
9799.00	93.78	322.53	7305.92	2297.82	-1531.64	2761.46	2.59
9863.00	93.62	323.07	7301.79	2348.69	-1570.26	2825.23	0.88
9927.00	93.92	324.35	7297.58	2400.16	-1608.06	2889.04	2.06
9990.00	93.18	324.67	7293.68	2451.36	-1644.56	2951.90	1.28
10054.00	92.08	325.36	7290.75	2503.74	-1681.22	3015.82	2.02
10117.00	91.46	325.56	7288.80	2555.61	-1716.92	3078.78	1.03
10181.00	90.71	324.99	7287.59	2608.20	-1753.37	3142.77	1.47
10244.00	90.31	324.46	7287.02	2659.63	-1789.75	3205.75	1.06
10308.00	91.05	325.15	7286.26	2711.93	-1826.63	3269.73	1.58
10371.00	91.68	324.17	7284.76	2763.30	-1863.06	3332.69	1.84
10435.00	91.63	324.29	7282.91	2815.21	-1900.46	3396.64	0.20
10499.00	91.92	325.68	7280.93	2867.60	-1937.16	3460.59	2.23
10562.00	92.31	326.89	7278.61	2919.97	-1972.10	3523.55	2.01
10626.00	92.14	326.27	7276.13	2973.35	-2007.33	3587.50	1.00
10690.00	91.56	326.88	7274.06	3026.73	-2042.56	3651.46	1.30
10753.00	91.22	327.39	7272.53	3079.63	-2076.74	3714.43	0.97
10815.00	91.34	327.93	7271.15	3132.00	-2109.90	3776.39	0.89
10879.00	90.14	325.34	7270.33	3185.44	-2145.10	3840.37	4.46
10941.00	89.18	323.26	7270.69	3235.78	-2181.27	3902.34	3.69
11004.00	91.00	323.27	7270.60	3286.27	-2218.95	3965.26	2.90
11067.00	91.74	322.75	7269.09	3336.58	-2256.84	4028.16	1.43
11130.00	91.92	324.13	7267.08	3387.15	-2294.35	4091.06	2.20
11193.00	92.02	324.10	7264.92	3438.17	-2331.26	4153.99	0.16
11255.00	91.06	323.51	7263.26	3488.18	-2367.86	4215.92	1.82
11318.00	92.09	326.81	7261.53	3539.86	-2403.83	4278.88	5.48
11380.00	92.32	327.35	7259.15	3591.87	-2437.50	4340.83	0.95
11442.00	91.51	327.36	7257.08	3644.05	-2470.92	4402.77	1.31
11505.00	90.71	328.07	7255.86	3697.30	-2504.57	4465.73	1.70
11567.00	90.71	327.81	7255.09	3749.84	-2537.48	4527.69	0.42
11629.00	90.54	327.33	7254.41	3802.17	-2570.72	4589.67	0.82
11693.00	90.37	326.60	7253.91	3855.82	-2605.61	4653.65	1.17
11756.00	90.14	325.56	7253.62	3908.10	-2640.76	4716.65	1.69
11818.00	90.26	326.22	7253.41	3959.43	-2675.53	4778.65	1.08
11881.00	90.43	326.78	7253.03	4011.96	-2710.30	4841.65	0.93
11945.00	90.43	327.15	7252.56	4065.61	-2745.19	4905.64	0.58
12007.00	89.97	326.10	7252.34	4117.39	-2779.30	4967.63	1.85
12069.00	89.97	325.12	7252.37	4168.55	-2814.32	5029.63	1.58
12132.00	90.03	325.45	7252.37	4220.34	-2850.19	5092.63	0.53
12195.00	90.20	326.49	7252.25	4272.55	-2885.45	5155.62	1.66
12257.00	90.03	325.37	7252.12	4323.90	-2920.18	5217.62	1.82
12319.00	90.09	325.05	7252.06	4374.82	-2955.55	5279.62	0.53
12382.00	90.26	325.06	7251.87	4426.46	-2991.64	5342.61	0.27
12445.00	90.54	327.13	7251.44	4478.75	-3026.78	5405.60	3.32
12508.00	90.60	327.51	7250.81	4531.77	-3060.79	5468.58	0.61

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Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
12571.00	90.88	326.57	7249.99	4584.63	-3095.06	5531.57	1.56
12633.00	91.16	327.08	7248.89	4636.51	-3128.99	5593.55	0.93
12696.00	91.11	326.88	7247.64	4689.32	-3163.31	5656.53	0.33
12758.00	90.83	326.75	7246.59	4741.20	-3197.24	5718.51	0.50
12821.00	90.65	326.07	7245.78	4793.68	-3232.09	5781.51	1.11
12883.00	90.31	325.46	7245.26	4844.94	-3266.97	5843.50	1.14
12945.00	90.14	325.06	7245.01	4895.88	-3302.30	5905.50	0.69
13007.00	89.63	325.13	7245.13	4946.73	-3337.78	5967.49	0.84
13069.00	89.69	325.93	7245.50	4997.84	-3372.87	6029.49	1.29
13131.00	89.80	325.84	7245.78	5049.17	-3407.64	6091.48	0.24
13193.00	90.09	326.43	7245.84	5100.65	-3442.19	6153.48	1.06
13256.00	90.48	326.09	7245.53	5153.04	-3477.18	6216.48	0.83
13319.00	90.48	326.57	7245.00	5205.47	-3512.11	6279.48	0.75
13381.00	90.49	326.26	7244.48	5257.12	-3546.41	6341.48	0.49
13444.00	90.60	326.11	7243.88	5309.46	-3581.46	6404.47	0.30
13479.00	90.71	325.28	7243.48	5338.37	-3601.19	6439.47	2.41

Vertical Section is 6503.47 ft along the target direction of 326.00 deg at a measured depth of 13543.01 ft.

Horizontal Displacement is 6503.47 ft along the well bore azimuth of 325.99 deg.

The total correction is -8.64 deg relative to Grid North.

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