



Weatherford®

SURVEY REPORT

Report Date: 6/9/2011

Customer: Chesapeake

Job Name: 4022792

Well Name: Dellslow Hunting and

Field: Preston County

Rig: Nomac 37

Rig Loc: Preston County

Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	143.00 deg	52717 nT	67.23 deg	-9.17 deg	-0.15 deg	-9.02 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	2327.00 ft	0.40 deg	30.30 deg	2326.95 ft	-3.84 ft	3.78 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head			VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)			
2366.00	0.66	127.76	2365.95	-3.86	4.03	5.51	2.10	
2430.00	3.07	143.10	2429.91	-5.46	5.35	7.58	3.81	
2493.00	5.16	145.48	2492.74	-9.14	7.97	12.10	3.32	
2556.00	6.50	148.05	2555.42	-14.50	11.46	18.48	2.17	
2619.00	6.10	140.70	2618.04	-20.12	15.47	25.37	1.42	
2681.00	5.81	133.17	2679.70	-24.82	19.84	31.76	1.35	
2745.00	5.32	127.34	2743.40	-28.83	24.57	37.81	1.17	
2808.00	4.26	136.53	2806.18	-32.30	28.50	42.95	2.08	
2871.00	4.71	142.47	2868.99	-36.05	31.68	47.86	1.03	
2934.00	5.51	145.77	2931.74	-40.60	34.96	53.46	1.35	
2998.00	4.67	143.64	2995.49	-45.23	38.23	59.13	1.35	
3062.00	4.87	141.90	3059.27	-49.47	41.45	64.45	0.39	
3124.00	5.41	144.38	3121.02	-53.91	44.77	70.00	0.94	
3188.00	5.43	154.03	3184.73	-59.08	47.85	75.98	1.42	
3251.00	4.95	153.65	3247.47	-64.19	50.36	81.58	0.76	
3313.00	3.91	139.64	3309.29	-68.20	52.92	86.31	2.41	
3363.00	4.18	122.32	3359.17	-70.47	55.56	89.72	2.49	
3454.00	5.04	113.64	3449.87	-73.85	62.02	96.30	1.22	
3518.00	4.92	111.30	3513.63	-75.97	67.15	101.09	0.37	
3581.00	5.53	139.62	3576.38	-79.26	71.64	106.41	4.16	
3643.00	6.21	139.80	3638.05	-84.10	75.74	112.74	1.10	
3706.00	4.87	163.75	3700.77	-89.27	78.68	118.65	4.20	
3769.00	3.29	158.05	3763.61	-93.51	80.11	122.89	2.58	
3833.00	3.01	151.45	3827.51	-96.69	81.60	126.33	0.72	
3894.00	3.34	151.97	3888.42	-99.66	83.20	129.66	0.55	
3957.00	3.20	140.69	3951.31	-102.64	85.17	133.23	1.04	
4020.00	3.43	146.74	4014.21	-105.58	87.32	136.88	0.66	
4084.00	3.19	137.57	4078.10	-108.50	89.58	140.56	0.91	
4147.00	2.02	162.78	4141.04	-110.85	91.09	143.35	2.55	
4210.00	1.06	346.96	4204.03	-111.35	91.28	143.86	4.89	
4272.00	1.20	61.50	4266.02	-110.48	91.73	143.43	2.22	
4335.00	1.45	101.00	4329.00	-110.31	93.09	144.12	1.47	
4398.00	0.74	214.74	4392.00	-110.80	93.64	144.84	2.97	
4461.00	1.18	207.56	4454.99	-111.71	93.11	145.25	0.72	
4524.00	0.57	184.96	4517.98	-112.59	92.78	145.75	1.10	

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
4587.00	0.46	164.47	4580.98	-113.14	92.82	146.22	0.33
4650.00	0.25	222.64	4643.98	-113.49	92.80	146.48	0.62
4712.00	0.48	125.41	4705.98	-113.74	92.92	146.76	0.92
4775.00	0.62	105.52	4768.97	-113.98	93.46	147.28	0.37
4839.00	0.47	143.15	4832.97	-114.29	93.95	147.81	0.59
4901.00	0.81	110.25	4894.97	-114.64	94.51	148.43	0.79
4963.00	1.04	71.65	4956.96	-114.61	95.46	148.98	1.05
5026.00	1.06	89.11	5019.95	-114.42	96.58	149.51	0.51
5089.00	0.41	84.96	5082.94	-114.39	97.39	149.97	1.04
5152.00	0.49	122.73	5145.94	-114.52	97.84	150.34	0.48
5215.00	0.55	280.88	5208.94	-114.61	97.77	150.37	1.62
5279.00	0.74	300.41	5272.94	-114.34	97.11	149.76	0.44
5342.00	0.66	316.96	5335.93	-113.87	96.51	149.02	0.34
5405.00	0.97	322.51	5398.92	-113.18	95.94	148.13	0.50
5468.00	0.92	355.24	5461.92	-112.26	95.58	147.17	0.85
5531.00	0.73	327.78	5524.91	-111.41	95.32	146.34	0.69
5595.00	0.87	354.48	5588.90	-110.59	95.06	145.53	0.61
5659.00	1.42	352.31	5652.89	-109.32	94.91	144.42	0.87
5722.00	1.61	304.69	5715.87	-108.04	94.07	142.90	1.96
5786.00	2.23	288.65	5779.84	-107.13	92.16	141.02	1.28
5850.00	2.24	299.63	5843.79	-106.11	89.89	138.84	0.67
5913.00	1.91	301.08	5906.75	-104.96	87.91	136.73	0.53
5977.00	1.94	305.44	5970.71	-103.78	86.12	134.71	0.23
6041.00	2.16	305.38	6034.67	-102.46	84.25	132.53	0.34
6104.00	1.67	345.69	6097.64	-100.88	83.06	130.55	2.22
6167.00	1.42	350.28	6160.61	-99.21	82.70	129.01	0.44
6229.00	1.73	347.73	6222.59	-97.54	82.37	127.47	0.51
6291.00	0.48	25.96	6284.58	-96.39	82.29	126.50	2.24
6354.00	0.30	268.45	6347.58	-96.15	82.24	126.28	1.07
6417.00	0.75	217.11	6410.57	-96.49	81.83	126.30	0.97
6480.00	0.53	198.93	6473.57	-97.09	81.48	126.58	0.47
6544.00	0.62	191.30	6537.57	-97.71	81.32	126.97	0.18
6608.00	0.84	219.77	6601.56	-98.40	80.95	127.31	0.66
6671.00	0.85	186.95	6664.56	-99.23	80.60	127.75	0.76
6734.00	0.64	173.44	6727.55	-100.04	80.58	128.39	0.44
6795.00	0.70	206.37	6788.55	-100.71	80.46	128.85	0.63
6857.00	1.06	205.42	6850.54	-101.57	80.04	129.29	0.58
6918.00	1.53	202.16	6911.52	-102.83	79.49	129.96	0.77
6982.00	1.45	129.71	6975.51	-104.13	79.79	131.19	2.74
7044.00	1.69	110.41	7037.48	-104.95	81.25	132.72	0.93
7108.00	1.76	114.28	7101.45	-105.69	83.03	134.37	0.22
7160.00	2.58	144.91	7153.42	-106.97	84.43	136.24	2.68
7192.00	6.32	144.36	7185.32	-108.99	85.87	138.72	11.68
7224.00	11.94	146.55	7216.90	-113.19	88.72	143.79	17.61
7255.00	15.44	149.64	7247.01	-119.43	92.58	151.10	11.52
7287.00	19.74	145.83	7277.51	-127.58	97.77	160.73	13.88
7319.00	22.12	145.38	7307.40	-137.01	104.23	172.15	7.47
7350.00	24.17	145.38	7335.90	-147.04	111.15	184.32	6.60
7382.00	25.95	145.49	7364.89	-158.20	118.84	197.86	5.57
7413.00	29.69	144.79	7392.30	-170.06	127.11	212.31	12.11

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
7445.00	32.11	143.31	7419.76	-183.36	136.76	228.74	7.93
7477.00	35.26	142.22	7446.38	-197.48	147.50	246.49	10.04
7509.00	38.74	141.77	7471.93	-212.65	159.36	265.74	10.89
7541.00	43.60	140.09	7496.02	-228.99	172.64	286.78	15.57
7572.00	46.67	139.19	7517.88	-245.73	186.87	308.71	10.12
7604.00	48.90	139.44	7539.39	-263.70	202.32	332.36	6.99
7636.00	51.35	139.31	7559.90	-282.34	218.31	356.87	7.68
7668.00	52.38	137.87	7579.66	-301.21	234.96	381.96	4.80
7699.00	53.54	137.33	7598.33	-319.48	251.65	406.60	3.97
7730.00	57.35	137.67	7615.91	-338.30	268.89	432.00	12.33
7761.00	61.54	137.76	7631.67	-358.05	286.85	458.58	13.50
7793.00	66.84	140.71	7645.60	-379.87	305.64	487.31	18.52
7824.00	72.27	142.23	7656.43	-402.58	323.72	516.34	18.12
7855.00	77.79	145.58	7664.43	-426.77	341.34	546.26	20.64
7886.00	81.83	147.54	7669.92	-452.23	358.15	576.71	14.44
7918.00	82.75	148.36	7674.21	-479.11	374.98	608.30	3.84
7948.00	84.71	148.20	7677.48	-504.47	390.66	637.99	6.56
7979.00	87.59	147.91	7679.56	-530.71	407.02	668.80	9.32
8010.00	89.34	147.63	7680.40	-556.93	423.55	699.68	5.71
8074.00	89.97	146.95	7680.79	-610.78	458.13	763.50	1.44
8137.00	89.41	146.08	7681.13	-663.32	492.88	826.38	1.64
8200.00	88.78	145.76	7682.13	-715.50	528.18	889.29	1.12
8263.00	88.71	143.48	7683.52	-766.85	564.64	952.24	3.61
8325.00	88.36	143.56	7685.11	-816.68	601.49	1014.22	0.57
8388.00	89.06	142.24	7686.53	-866.91	639.49	1077.20	2.37
8449.00	89.83	141.77	7687.12	-914.98	677.04	1138.19	1.48
8511.00	89.34	140.74	7687.58	-963.34	715.84	1200.16	1.83
8575.00	89.27	140.91	7688.36	-1012.95	756.26	1264.11	0.29
8637.00	89.76	140.01	7688.89	-1060.76	795.73	1326.04	1.66
8700.00	90.87	140.42	7688.54	-1109.17	836.04	1388.97	1.89
8762.00	90.80	140.19	7687.63	-1156.87	875.64	1450.89	0.39
8826.00	90.67	139.96	7686.81	-1205.95	916.71	1514.80	0.42
8890.00	90.59	140.96	7686.11	-1255.30	957.45	1578.73	1.57
8952.00	90.10	142.41	7685.73	-1303.95	995.88	1640.71	2.46
9015.00	90.45	143.71	7685.42	-1354.30	1033.74	1703.71	2.15
9079.00	90.59	144.27	7684.84	-1406.07	1071.37	1767.70	0.89
9143.00	90.31	144.21	7684.33	-1458.00	1108.77	1831.68	0.45
9206.00	90.10	144.05	7684.10	-1509.05	1145.69	1894.67	0.41
9269.00	89.76	144.10	7684.18	-1560.07	1182.65	1957.66	0.56
9332.00	89.97	144.38	7684.33	-1611.19	1219.46	2020.64	0.55
9394.00	90.03	144.24	7684.33	-1661.54	1255.63	2082.63	0.25
9457.00	89.55	144.19	7684.56	-1712.65	1292.47	2145.61	0.78
9520.00	89.34	144.71	7685.18	-1763.90	1329.10	2208.59	0.90
9583.00	89.20	144.35	7685.98	-1815.21	1365.65	2271.56	0.61
9646.00	88.85	144.37	7687.06	-1866.40	1402.35	2334.53	0.56
9709.00	89.48	143.60	7687.98	-1917.36	1439.39	2397.52	1.57
9772.00	89.41	141.37	7688.60	-1967.32	1477.75	2460.51	3.55
9835.00	88.92	141.13	7689.52	-2016.45	1517.18	2523.47	0.87
9899.00	90.10	140.98	7690.06	-2066.22	1557.41	2587.43	1.87
9962.00	91.22	141.74	7689.33	-2115.42	1596.75	2650.40	2.14

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
10024.00	91.01	142.72	7688.12	-2164.42	1634.72	2712.38	1.63
10088.00	90.52	141.91	7687.27	-2215.07	1673.83	2776.37	1.48
10151.00	89.69	141.63	7687.15	-2264.56	1712.82	2839.36	1.40
10214.00	89.76	141.14	7687.46	-2313.78	1752.14	2902.33	0.79
10278.00	89.62	141.45	7687.81	-2363.72	1792.15	2966.30	0.54
10342.00	88.50	142.38	7688.86	-2414.09	1831.62	3030.28	2.27
10405.00	88.64	143.24	7690.44	-2464.26	1869.69	3093.26	1.38
10467.00	89.41	143.83	7691.50	-2514.12	1906.54	3155.25	1.56
10531.00	89.76	144.21	7691.97	-2565.90	1944.14	3219.23	0.81
10594.00	89.27	143.39	7692.50	-2616.74	1981.35	3282.22	1.51
10658.00	89.83	143.28	7693.01	-2668.07	2019.56	3346.22	0.89
10721.00	90.24	142.57	7692.97	-2718.34	2057.54	3409.22	1.31
10784.00	89.69	140.47	7693.01	-2767.65	2096.74	3472.20	3.45
10847.00	90.17	141.86	7693.09	-2816.72	2136.25	3535.16	2.34
10911.00	90.10	142.07	7692.93	-2867.13	2175.68	3599.15	0.35
10974.00	90.38	143.19	7692.66	-2917.20	2213.92	3662.15	1.84
11036.00	89.97	143.47	7692.47	-2966.93	2250.94	3724.15	0.81
11100.00	89.55	142.96	7692.75	-3018.19	2289.27	3788.14	1.02
11163.00	90.66	143.97	7692.63	-3068.80	2326.77	3851.14	2.39
11227.00	90.73	143.92	7691.85	-3120.54	2364.43	3915.13	0.13
11289.00	91.71	145.12	7690.53	-3171.02	2400.41	3977.09	2.50
11353.00	91.85	145.52	7688.54	-3223.62	2436.80	4041.01	0.66
11417.00	91.15	145.17	7686.86	-3276.25	2473.18	4104.93	1.22
11480.00	91.36	145.38	7685.48	-3328.02	2509.06	4167.86	0.47
11543.00	91.01	144.83	7684.17	-3379.68	2545.09	4230.81	1.03
11605.00	90.59	144.45	7683.30	-3430.24	2580.96	4292.78	0.91
11668.00	89.97	144.35	7682.99	-3481.47	2617.63	4355.76	1.01
11732.00	89.41	143.97	7683.34	-3533.35	2655.11	4419.74	1.06
11795.00	88.71	143.01	7684.38	-3583.98	2692.59	4482.73	1.89
11859.00	88.71	142.88	7685.83	-3635.04	2731.15	4546.71	0.20
11922.00	88.29	144.56	7687.48	-3685.80	2768.41	4609.68	2.75
11986.00	87.66	143.58	7689.74	-3737.59	2805.95	4673.63	1.82
12047.00	87.66	144.22	7692.23	-3786.83	2841.86	4734.57	1.05
12110.00	90.38	145.90	7693.31	-3838.46	2877.93	4797.52	5.08
12173.00	90.45	146.06	7692.85	-3890.68	2913.18	4860.43	0.27
12236.00	89.69	147.30	7692.77	-3943.32	2947.78	4923.30	2.32
12298.00	88.15	147.03	7693.94	-3995.41	2981.39	4985.12	2.52
12361.00	88.29	146.83	7695.90	-4048.18	3015.75	5047.94	0.39
12424.00	87.73	142.67	7698.09	-4099.58	3052.08	5110.86	6.65
12486.00	87.66	143.07	7700.59	-4148.97	3089.47	5172.81	0.66
12549.00	88.29	141.00	7702.82	-4198.61	3128.20	5235.76	3.44
12612.00	89.48	142.44	7704.05	-4248.05	3167.22	5298.73	2.96
12674.00	89.20	141.17	7704.77	-4296.77	3205.56	5360.71	2.09
12738.00	86.47	138.40	7707.19	-4345.60	3246.84	5424.55	6.07
12802.00	85.91	137.63	7711.44	-4393.07	3289.55	5488.16	1.48
12864.00	85.84	137.54	7715.90	-4438.73	3331.26	5549.73	0.19
12927.00	85.98	137.87	7720.39	-4485.21	3373.55	5612.30	0.57
12990.00	87.45	139.84	7724.01	-4532.57	3414.93	5675.03	3.88
13052.00	87.10	139.47	7726.96	-4579.77	3455.03	5736.85	0.82
13115.00	88.64	141.34	7729.30	-4628.27	3495.15	5799.74	3.85

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
13177.00	89.27	141.68	7730.44	-4676.79	3533.73	5861.71	1.15
13240.00	90.17	142.92	7730.74	-4726.64	3572.26	5924.70	2.45
13303.00	89.48	142.85	7730.94	-4776.87	3610.27	5987.70	1.11
13366.00	89.62	143.15	7731.44	-4827.19	3648.18	6050.70	0.52
13429.00	89.41	144.05	7731.97	-4877.89	3685.57	6113.69	1.47
13491.00	89.27	143.76	7732.69	-4927.99	3722.09	6175.68	0.52
13554.00	88.99	143.95	7733.65	-4978.86	3759.25	6238.66	0.54
13618.00	88.99	143.96	7734.79	-5030.60	3796.90	6302.64	0.00
13680.00	88.71	144.14	7736.03	-5080.78	3833.29	6364.62	0.54
13743.00	89.06	144.11	7737.26	-5131.81	3870.21	6427.60	0.56
13807.00	89.69	143.24	7737.96	-5183.37	3908.11	6491.59	1.67
13871.00	91.36	145.80	7737.38	-5235.48	3945.25	6555.55	4.78
13935.00	91.50	146.83	7735.78	-5288.72	3980.74	6619.43	1.63
13998.00	91.08	146.57	7734.36	-5341.36	4015.32	6682.28	0.79
14054.00	90.59	145.98	7733.54	-5387.93	4046.41	6738.18	1.36

Vertical Section is 125933.31 ft along the target direction of 143.00 deg at a measured depth of 133417.00 ft.
Horizontal Displacement is 126086.67 ft along the well bore azimuth of 145.83 deg.
The total correction is -9.02 deg relative to Grid North.