

69-00104



Survey

Company: CHESAPEAKE **Location:** 40.166741 -80.577958
Well: LARRY BALL 3H **Rig:** NOMAC 243
API or UWI: 4706900104 **Job Number:** ADR120300
State: W.V. **Operator:** DDC
County: OHIO **Magnetic Declination:** -8.74
Comment: **Proposed Azimuth:** 338.08
North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
5050.00	0.88	184.49	5048.20	78.20	18.50

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5121.00	0.90	313.90	5119.20	78.04	18.06	13.03	80.10	65.66	2.27
5208.00	0.90	314.40	5206.19	78.99	17.07	12.20	80.82	66.91	0.01
5294.00	1.00	317.80	5292.17	80.02	16.09	11.37	81.62	68.23	0.13
5381.00	0.60	342.60	5379.17	81.02	15.44	10.79	82.48	69.40	0.60
5468.00	0.30	33.00	5466.16	81.65	15.43	10.70	83.09	69.98	0.54
5555.00	0.50	99.40	5553.16	81.78	15.93	11.02	83.31	69.92	0.54
5641.00	0.70	133.10	5639.16	81.36	16.68	11.59	83.05	69.25	0.46
5728.00	2.40	0.20	5726.13	82.81	17.08	11.65	84.56	70.45	3.36
5774.00	6.80	340.00	5771.98	86.34	16.15	10.59	87.84	74.07	10.05
5817.00	11.60	333.90	5814.41	92.62	13.37	8.22	93.58	80.93	11.38
5860.00	15.00	337.70	5856.25	101.65	9.36	5.26	102.08	90.81	8.16
5904.00	18.70	342.30	5898.36	113.64	5.05	2.55	113.75	103.54	8.93
5947.00	22.30	344.50	5938.63	128.08	0.77	0.35	128.08	118.53	8.56
5991.00	26.00	344.20	5978.77	145.41	-4.08	358.39	145.46	136.42	8.41
6034.00	28.90	341.00	6016.93	164.30	-10.03	356.51	164.61	156.17	7.56
6078.00	33.30	337.80	6054.60	185.55	-18.06	354.44	186.43	178.88	10.68
6121.00	38.30	338.10	6089.46	208.86	-27.50	352.50	210.66	204.03	11.64
6164.00	44.80	336.70	6121.63	235.17	-38.47	350.71	238.29	232.53	15.27
6208.00	51.90	336.10	6150.85	265.27	-51.64	348.98	270.25	265.37	16.17
6252.00	59.00	335.80	6175.79	298.34	-66.40	347.45	305.64	301.56	16.15
6295.00	63.90	336.10	6196.33	332.82	-81.79	346.19	342.73	339.30	11.41
6339.00	64.80	338.50	6215.38	369.41	-97.09	345.27	381.96	378.95	5.33
6382.00	67.30	338.50	6232.83	405.97	-111.49	344.64	421.00	418.24	5.81
6425.00	71.80	338.80	6247.85	443.49	-126.15	344.12	461.08	458.52	10.49
6471.00	76.60	335.50	6260.38	484.25	-143.35	343.51	505.03	502.76	12.51
6514.00	81.80	336.00	6268.43	522.75	-160.69	342.91	546.89	544.96	12.16
6558.00	88.00	334.10	6272.34	562.47	-179.17	342.33	590.31	588.69	14.73
6601.00	92.40	333.10	6272.19	600.97	-198.28	341.74	632.84	631.55	10.49
6644.00	92.80	331.60	6270.24	639.02	-218.22	341.15	675.25	674.29	13.61

Approved for
 Oil and Gas
 APR 24 2014
 Department of
 Environmental Protection

05/23/2014

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6688.00	93.80	334.00	6267.71	678.09	-238.29	340.64	718.74	718.02	5.90
6730.00	95.70	333.80	6264.23	715.67	-256.71	340.27	760.32	759.76	4.55
6817.00	94.00	334.60	6256.88	793.72	-294.43	339.65	846.57	846.25	2.16
6904.00	92.80	337.60	6251.71	873.11	-329.61	339.32	933.25	933.03	3.71
6990.00	90.20	338.30	6249.46	952.78	-361.88	339.20	1019.19	1019.00	3.13
7077.00	90.00	337.90	6249.31	1033.50	-394.33	339.12	1106.18	1106.00	0.51
7164.00	89.50	337.50	6249.69	1113.99	-427.35	339.01	1193.15	1192.99	0.74
7251.00	89.30	339.00	6250.60	1194.79	-459.58	338.96	1280.14	1279.99	1.74
7335.00	90.40	338.00	6250.82	1272.95	-490.37	338.93	1364.13	1363.98	1.77
7422.00	89.50	339.10	6250.90	1353.92	-522.18	338.91	1451.13	1450.98	1.63
7510.00	89.10	339.50	6251.97	1436.23	-553.28	338.93	1539.12	1538.95	0.64
7597.00	88.40	338.80	6253.87	1517.51	-584.24	338.94	1626.10	1625.91	1.14
7686.00	89.10	338.80	6255.81	1600.47	-616.42	338.94	1715.07	1714.88	0.79
7774.00	92.10	338.90	6254.89	1682.53	-648.17	338.93	1803.06	1802.86	3.41
7861.00	91.20	337.90	6252.39	1763.38	-680.18	338.91	1890.02	1889.82	1.55
7948.00	91.30	338.30	6250.49	1844.09	-712.62	338.87	1976.99	1976.80	0.47
8036.00	92.10	338.30	6247.88	1925.81	-745.14	338.85	2064.94	2064.76	0.91
8122.00	92.00	339.30	6244.80	2005.94	-776.22	338.85	2150.89	2150.70	1.17
8209.00	91.70	340.50	6241.99	2087.60	-806.11	338.89	2237.83	2237.60	1.42
8296.00	90.70	338.70	6240.17	2169.12	-836.42	338.91	2324.80	2324.55	2.37
8382.00	91.30	338.30	6238.67	2249.12	-867.94	338.90	2410.78	2410.54	0.84
8469.00	90.80	339.60	6237.07	2330.30	-899.18	338.90	2497.76	2497.51	1.60
8556.00	89.80	338.40	6236.62	2411.52	-930.36	338.90	2584.76	2584.49	1.80
8643.00	91.50	338.90	6235.63	2492.54	-962.03	338.90	2671.75	2671.48	2.04
8730.00	90.70	338.90	6233.96	2573.69	-993.34	338.90	2758.73	2758.45	0.92
8816.00	90.10	339.60	6233.36	2654.11	-1023.81	338.91	2844.73	2844.43	1.07
8903.00	91.00	340.10	6232.53	2735.78	-1053.78	338.93	2931.71	2931.39	1.18
8990.00	90.30	336.60	6231.54	2816.62	-1085.87	338.92	3018.69	3018.37	4.10
9077.00	91.10	338.50	6230.48	2897.02	-1119.09	338.88	3105.65	3105.35	2.37
9163.00	90.80	338.40	6229.05	2977.00	-1150.67	338.87	3191.64	3191.34	0.37
9250.00	90.30	336.50	6228.21	3057.34	-1184.03	338.83	3278.61	3278.32	2.26
9337.00	90.40	335.40	6227.68	3136.78	-1219.48	338.76	3365.49	3365.26	1.27
9424.00	89.80	335.50	6227.53	3215.92	-1255.63	338.67	3452.35	3452.17	0.70
9511.00	90.50	336.00	6227.30	3295.24	-1291.36	338.60	3539.24	3539.10	0.99
9598.00	89.50	338.40	6227.30	3375.44	-1325.08	338.57	3626.21	3626.08	2.99
9684.00	93.30	343.60	6225.20	3456.68	-1353.05	338.62	3712.06	3711.90	7.49
9771.00	92.80	343.50	6220.57	3540.00	-1377.66	338.74	3798.63	3798.38	0.59
9858.00	92.10	344.00	6216.85	3623.45	-1401.98	338.85	3885.22	3884.87	0.99
9945.00	91.70	344.40	6213.97	3707.12	-1425.65	338.96	3971.80	3971.32	0.65
10031.00	91.50	340.40	6211.57	3789.04	-1451.64	339.04	4057.60	4057.03	4.66
10120.00	91.60	342.60	6209.16	3873.41	-1479.87	339.09	4146.48	4145.84	2.47
10207.00	88.40	341.10	6209.16	3956.06	-1506.97	339.15	4233.37	4232.63	4.06
10294.00	89.10	337.80	6211.06	4037.50	-1537.49	339.15	4320.34	4319.58	3.88
10380.00	89.80	336.00	6211.88	4116.59	-1571.23	339.11	4406.26	4405.55	2.25
10469.00	91.50	336.90	6210.87	4198.17	-1606.79	339.06	4495.15	4494.50	2.16
10555.00	91.50	335.80	6208.62	4276.92	-1641.27	339.01	4581.03	4580.43	1.28
10642.00	90.90	336.90	6206.80	4356.60	-1676.17	338.96	4667.92	4667.38	1.44
10729.00	90.50	337.00	6205.74	4436.64	-1710.23	338.92	4754.86	4754.35	0.47
10816.00	89.40	335.80	6205.81	4516.36	-1745.06	338.87	4841.77	4841.31	1.87
10903.00	89.90	335.00	6206.34	4595.47	-1781.27	338.81	4928.62	4928.21	1.08
10990.00	90.90	336.30	6205.74	4674.72	-1817.14	338.76	5015.48	5015.13	1.89
11076.00	90.60	336.10	6204.61	4753.40	-1851.84	338.71	5101.39	5101.07	0.42

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11163.00	90.50	336.90	6203.78	4833.18	-1886.53	338.68	5188.32	5188.04	0.93
11250.00	91.60	336.40	6202.18	4913.04	-1921.01	338.64	5275.25	5274.99	1.39
11337.00	91.30	335.40	6199.98	4992.43	-1956.52	338.60	5362.12	5361.90	1.20
11424.00	90.50	334.00	6198.61	5071.07	-1993.70	338.54	5448.91	5448.73	1.85
11511.00	90.10	335.70	6198.16	5149.82	-2030.67	338.48	5535.73	5535.60	2.01
11597.00	90.10	335.80	6198.01	5228.23	-2065.99	338.44	5621.63	5621.52	0.12
11684.00	91.20	337.60	6197.02	5308.13	-2100.40	338.41	5708.58	5708.48	2.42
11770.00	90.60	338.00	6195.67	5387.74	-2132.89	338.40	5794.56	5794.47	0.84
11857.00	91.30	341.80	6194.23	5469.42	-2162.78	338.42	5881.51	5881.40	4.44
11944.00	90.10	340.60	6193.17	5551.77	-2190.81	338.47	5968.40	5968.27	1.95
12030.00	89.60	339.10	6193.39	5632.50	-2220.43	338.48	6054.37	6054.22	1.84
12117.00	91.30	340.20	6192.71	5714.06	-2250.69	338.50	6141.35	6141.18	2.33
12204.00	92.00	339.80	6190.20	5795.78	-2280.43	338.52	6228.28	6228.09	0.93
12291.00	89.80	336.30	6188.84	5876.45	-2312.94	338.52	6315.24	6315.06	4.75
12378.00	90.30	338.60	6188.76	5956.79	-2346.30	338.50	6402.22	6402.05	2.71
12464.00	91.80	339.90	6187.18	6037.19	-2376.76	338.51	6488.20	6488.01	2.31
12551.00	91.40	339.10	6184.75	6118.65	-2407.22	338.52	6575.15	6574.95	1.03
12638.00	90.50	336.40	6183.31	6199.16	-2440.15	338.51	6662.12	6661.93	3.27
12725.00	90.90	337.10	6182.25	6279.08	-2474.49	338.49	6749.08	6748.90	0.93
12812.00	91.70	337.80	6180.27	6359.41	-2507.85	338.48	6836.04	6835.87	1.22
12898.00	89.50	335.10	6179.37	6438.23	-2542.20	338.45	6921.97	6921.82	4.05
12985.00	90.80	335.30	6179.15	6517.21	-2578.70	338.41	7008.83	7008.71	1.51
13072.00	91.90	337.50	6177.10	6596.90	-2613.51	338.39	7095.74	7095.64	2.83
13159.00	90.80	336.20	6175.05	6676.87	-2647.71	338.37	7182.68	7182.59	1.96
13246.00	91.90	338.80	6173.00	6757.22	-2680.99	338.36	7269.64	7269.56	3.24
13322.00	91.20	337.80	6170.94	6827.80	-2709.08	338.36	7345.61	7345.52	1.61
13419.00	90.80	339.30	6169.25	6918.07	-2744.54	338.36	7442.59	7442.51	1.60
13506.00	90.40	339.80	6168.34	6999.58	-2774.94	338.37	7529.57	7529.47	0.74
13592.00	90.00	338.50	6168.04	7079.95	-2805.55	338.38	7615.56	7615.45	1.58
13681.00	90.90	340.90	6167.34	7163.41	-2836.42	338.40	7704.53	7704.41	2.88
13768.00	90.90	341.10	6165.97	7245.66	-2864.74	338.43	7791.43	7791.29	0.23
13854.00	90.50	341.30	6164.92	7327.06	-2892.45	338.46	7877.32	7877.15	0.52
13941.00	91.10	341.80	6163.71	7409.58	-2919.98	338.49	7964.19	7963.98	0.90
14028.00	91.30	343.00	6161.88	7492.49	-2946.28	338.53	8050.96	8050.71	1.40
14115.00	89.80	343.90	6161.05	7575.88	-2971.06	338.59	8137.64	8137.32	2.01
14202.00	91.70	342.80	6159.91	7659.22	-2995.99	338.64	8224.33	8223.94	2.52
14288.00	91.40	342.20	6157.58	7741.21	-3021.84	338.68	8310.10	8309.65	0.78
14375.00	91.40	343.80	6155.46	7824.38	-3047.27	338.72	8396.83	8396.31	1.84
14462.00	90.90	340.40	6153.71	7907.14	-3074.00	338.76	8483.65	8483.06	3.95
14549.00	89.80	338.60	6153.18	7988.63	-3104.46	338.76	8570.63	8570.03	2.42
14643.00	89.40	338.50	6153.84	8076.11	-3138.84	338.76	8664.64	8664.03	0.44
14699.00	89.40	338.50	6154.42	8128.21	-3159.36	338.76	8720.63	8720.01	0.00

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