



Final Well Report

**Edward Nichols Pad 3H
Ohio County, WV**

Archer

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

ARCHER

Survey Report

Company: CHESAPEAKE ENERGY CORPORATION Field: Ohio County, WV Site: Edward Nichols Pad Well: 3H Wellpath: Lateral	Date: 10/03/2011 Co-ordinate(NE) Reference: Well: 3H, Grid North Vertical (TVD) Reference: Est.1310'GL+16'KB 1326.0 Section (VS) Reference: Well (0.00N,0.00E,340.00Azi) Survey Calculation Method: Minimum Curvature	Time: 09:43:59 Page: 1	Db: Adapti							
Field: Ohio County, WV										
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level		Map Zone: West Virginia, Northern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010								
Site: Edward Nichols Pad Centered on well 8H										
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 1310.00 ft		Northing: 585113.20 ft Easting: 1683758.50 ft Latitude: 40 6 3.494 N Longitude: 80 37 49.699 W North Reference: Grid Grid Convergence: -0.72 deg								
Well: 3H										
Well Position: +N/-S -1.22 ft +E/-W 19.96 ft Position Uncertainty: 0.00 ft		Slot Name: 3H Northing: 585111.98 ft Easting: 1683778.46 ft Latitude: 40 6 3.484 N Longitude: 80 37 49.442 W								
Wellpath: Lateral										
Current Datum: Est.1310'GL+16'KB Magnetic Data: 09/23/2011 Field Strength: 53028 nT Vertical Section: Depth From (TVD) ft		Drilled From: Pilot Hole Tie-on Depth: 5511.00 ft Above System Datum: Mean Sea Level Declination: -8.67 deg Mag Dip Angle: 67.68 deg +N/-S ft +E/-W ft Direction deg								
0.00		0.00 0.00 340.00								
Survey Program for Definitive Wellpath										
Date: 10/03/2011 Actual From ft To ft		Validated: No Survey Version: 0 Toolcode Tool Name								
100.00 5511.00 5597.00 13102.00 13153.00 13153.00		Survey #1 (100.00-5511.00) (0) Survey #1 (5597.00-13102.00) Survey #2 (13153.00-13153.00) Gyroscope MWD Project Gyroscope Std MWD Projection								
Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
108.00	0.08	326.60	108.00	0.06	-0.04	0.07	0.08	0.08	0.00	Gyroscope
208.00	0.10	125.08	208.00	0.07	-0.01	0.06	0.18	0.02	158.48	Gyroscope
308.00	0.20	201.41	308.00	-0.15	0.00	-0.14	0.20	0.10	76.33	Gyroscope
408.00	0.16	239.31	408.00	-0.38	-0.18	-0.29	0.12	-0.04	37.90	Gyroscope
508.00	0.20	284.73	508.00	-0.41	-0.47	-0.22	0.14	0.04	45.42	Gyroscope
608.00	0.18	190.10	608.00	-0.52	-0.67	-0.26	0.28	-0.02	-94.63	Gyroscope
708.00	0.26	28.67	708.00	-0.47	-0.59	-0.24	0.43	0.08	-161.43	Gyroscope
808.00	0.14	189.00	808.00	-0.39	-0.50	-0.20	0.39	-0.12	160.33	Gyroscope
908.00	0.18	163.08	908.00	-0.67	-0.47	-0.46	0.08	0.04	-25.92	Gyroscope
1008.00	0.15	312.78	1008.00	-0.73	-0.52	-0.51	0.32	-0.03	149.70	Gyroscope
1108.00	0.17	263.45	1108.00	-0.65	-0.76	-0.35	0.13	0.02	-49.33	Gyroscope
1208.00	0.34	295.30	1208.00	-0.54	-1.18	-0.11	0.22	0.17	31.85	Gyroscope
1308.00	0.23	289.85	1307.99	-0.35	-1.64	0.23	0.11	-0.11	-5.45	Gyroscope
1408.00	0.29	278.27	1407.99	-0.25	-2.07	0.48	0.08	0.06	-11.58	Gyroscope
1508.00	0.14	300.15	1507.99	-0.15	-2.43	0.69	0.17	-0.15	21.88	Gyroscope
1608.00	0.20	285.68	1607.99	-0.04	-2.70	0.89	0.07	0.06	-14.47	Gyroscope
1708.00	0.18	299.08	1707.99	0.08	-3.01	1.11	0.05	-0.02	13.40	Gyroscope
1808.00	0.35	291.22	1807.99	0.27	-3.43	1.43	0.17	0.17	-7.86	Gyroscope
1908.00	0.19	286.03	1907.99	0.43	-3.88	1.73	0.16	-0.16	-5.19	Gyroscope
2008.00	0.37	302.20	2007.99	0.65	-4.31	2.08	0.19	0.18	16.17	Gyroscope

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 Vertical (TVD) Reference: Est.1310'GL+16'KB 1326.0
 Section (VS) Reference: Well (0.00N,0.00E,340.00Azi)
 Survey Calculation Method: Minimum Curvature Db: Adapti

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2108.00	0.55	292.96	2107.99	1.00	-5.02	2.66	0.19	0.18	-9.24	Gyroscope
2208.00	0.68	280.83	2207.98	1.30	-6.05	3.29	0.18	0.13	-12.13	Gyroscope
2308.00	1.01	305.47	2307.97	1.93	-7.35	4.32	0.48	0.33	24.64	Gyroscope
2408.00	0.77	310.26	2407.96	2.87	-8.58	5.63	0.25	-0.24	4.79	Gyroscope
2508.00	0.97	297.35	2507.95	3.70	-9.84	6.84	0.28	0.20	-12.91	Gyroscope
2608.00	1.12	312.50	2607.93	4.74	-11.32	8.33	0.31	0.15	15.15	Gyroscope
2708.00	0.97	318.22	2707.91	6.04	-12.60	9.98	0.18	-0.15	5.72	Gyroscope
2808.00	1.24	307.79	2807.89	7.33	-14.02	11.68	0.34	0.27	-10.43	Gyroscope
2908.00	1.32	314.58	2907.87	8.80	-15.70	13.64	0.17	0.08	6.79	Gyroscope
3008.00	1.03	313.11	3007.85	10.22	-17.17	15.48	0.29	-0.29	-1.47	Gyroscope
3108.00	1.02	315.17	3107.83	11.47	-18.46	17.09	0.04	-0.01	2.06	Gyroscope
3208.00	1.10	309.74	3207.81	12.71	-19.82	18.73	0.13	0.08	-5.43	Gyroscope
3308.00	1.07	308.91	3307.80	13.91	-21.29	20.36	0.03	-0.03	-0.83	Gyroscope
3408.00	1.16	307.86	3407.78	15.12	-22.81	22.01	0.09	0.09	-1.05	Gyroscope
3508.00	1.01	308.98	3507.76	16.30	-24.30	23.63	0.15	-0.15	1.12	Gyroscope
3608.00	0.90	314.02	3607.75	17.40	-25.55	25.09	0.14	-0.11	5.04	Gyroscope
3708.00	1.15	306.18	3707.73	18.54	-26.92	26.63	0.29	0.25	-7.84	Gyroscope
3808.00	1.00	313.16	3807.71	19.73	-28.37	28.24	0.20	-0.15	6.98	Gyroscope
3908.00	1.05	326.03	3907.70	21.08	-29.52	29.91	0.24	0.05	12.87	Gyroscope
4008.00	1.06	331.31	4007.68	22.65	-30.47	31.71	0.10	0.01	5.28	Gyroscope
4108.00	1.22	334.38	4107.66	24.43	-31.38	33.68	0.17	0.16	3.07	Gyroscope
4208.00	1.31	337.69	4207.64	26.44	-32.27	35.89	0.12	0.09	3.31	Gyroscope
4308.00	1.28	336.65	4307.61	28.53	-33.15	38.14	0.04	-0.03	-1.04	Gyroscope
4408.00	1.38	342.89	4407.58	30.70	-33.94	40.46	0.18	0.10	6.24	Gyroscope
4508.00	1.51	352.71	4507.55	33.16	-34.47	42.95	0.28	0.13	9.82	Gyroscope
4608.00	1.57	357.33	4607.51	35.84	-34.70	45.54	0.14	0.06	4.62	Gyroscope
4708.00	1.53	10.40	4707.48	38.52	-34.52	48.00	0.36	-0.04	13.07	Gyroscope
4808.00	1.39	358.64	4807.45	41.04	-34.31	50.30	0.33	-0.14	-11.76	Gyroscope
4908.00	1.46	359.78	4907.42	43.53	-34.34	52.65	0.08	0.07	1.14	Gyroscope
5008.00	1.48	4.90	5007.38	46.09	-34.24	55.02	0.13	0.02	5.12	Gyroscope
5108.00	1.67	347.03	5107.35	48.80	-34.45	57.64	0.52	0.19	-17.87	Gyroscope
5208.00	1.75	3.33	5207.30	51.74	-34.69	60.48	0.49	0.08	16.30	Gyroscope
5308.00	1.72	353.57	5307.26	54.76	-34.77	63.35	0.30	-0.03	-9.76	Gyroscope
5408.00	1.68	338.30	5407.21	57.61	-35.48	66.27	0.45	-0.04	-15.27	Gyroscope
5597.00	1.30	350.50	5596.15	62.30	-36.86	71.15	0.26	-0.20	6.46	MWD
5640.00	2.20	328.90	5639.13	63.49	-37.36	72.44	2.56	2.09	-50.23	MWD
5684.00	4.50	317.40	5683.05	65.48	-38.97	74.86	5.42	5.23	-26.14	MWD
5727.00	6.50	321.90	5725.85	68.64	-41.61	78.73	4.75	4.65	10.47	MWD
5770.00	8.10	324.30	5768.50	73.01	-44.88	83.96	3.79	3.72	5.58	MWD
5814.00	9.90	323.80	5811.96	78.58	-48.93	90.58	4.09	4.09	-1.14	MWD
5857.00	12.30	326.30	5854.15	85.38	-53.65	98.58	5.69	5.58	5.81	MWD
5900.00	14.90	331.40	5895.94	94.04	-58.84	108.50	6.65	6.05	11.86	MWD
5944.00	21.00	330.20	5937.78	105.86	-65.47	121.87	13.89	13.86	-2.73	MWD
5987.00	27.60	333.30	5976.95	121.47	-73.79	139.38	15.63	15.35	7.21	MWD
6030.00	33.80	337.50	6013.91	141.44	-82.85	161.24	15.25	14.42	9.77	MWD
6074.00	40.30	340.20	6049.01	166.16	-92.36	187.73	15.23	14.77	6.14	MWD
6117.00	47.20	339.80	6080.05	194.08	-102.53	217.45	16.06	16.05	-0.93	MWD
6160.00	54.90	340.40	6107.07	225.51	-113.90	250.86	17.94	17.91	1.40	MWD
6204.00	63.00	342.70	6129.74	261.24	-125.79	288.51	18.94	18.41	5.23	MWD
6225.55	67.05	344.40	6138.84	279.97	-131.31	308.00	20.12	18.80	7.90	MWD
6247.00	71.10	346.00	6146.50	299.34	-136.42	327.95	20.12	18.88	7.44	MWD
6290.00	79.30	345.40	6157.48	339.59	-146.69	369.28	19.12	19.07	-1.40	MWD
6334.00	85.80	344.30	6163.18	381.68	-158.09	412.73	14.98	14.77	-2.50	MWD
6377.00	87.60	346.00	6165.65	423.17	-169.09	455.48	5.75	4.19	3.95	MWD

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MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6420.00	90.00	344.20	6166.55	464.71	-180.14	498.30	6.98	5.58	-4.19	MWD
6463.00	89.80	343.80	6166.63	506.04	-191.99	541.19	1.04	-0.47	-0.93	MWD
6507.00	90.50	343.90	6166.51	548.31	-204.23	585.09	1.61	1.59	0.23	MWD
6550.00	91.60	343.00	6165.73	589.52	-216.48	628.00	3.31	2.56	-2.09	MWD
6594.00	91.50	341.30	6164.54	631.38	-229.96	671.96	3.87	-0.23	-3.86	MWD
6637.00	90.00	340.50	6163.97	672.01	-244.03	714.95	3.95	-3.49	-1.86	MWD
6680.00	88.50	340.10	6164.54	712.49	-258.52	757.94	3.61	-3.49	-0.93	MWD
6724.00	87.20	339.10	6166.19	753.70	-273.85	801.91	3.73	-2.95	-2.27	MWD
6810.00	88.00	339.20	6169.79	834.00	-304.43	887.82	0.94	0.93	0.12	MWD
6897.00	89.20	339.00	6171.91	915.25	-335.46	974.78	1.40	1.38	-0.23	MWD
6984.00	91.60	339.40	6171.31	996.57	-366.35	1061.77	2.80	2.76	0.46	MWD
7071.00	93.10	339.20	6167.74	1077.88	-397.07	1148.68	1.74	1.72	-0.23	MWD
7157.00	89.70	337.50	6165.64	1157.77	-428.79	1234.61	4.42	-3.95	-1.98	MWD
7244.00	89.80	337.50	6166.02	1238.15	-462.08	1321.52	0.11	0.11	0.00	MWD
7331.00	90.80	338.30	6165.56	1318.76	-494.81	1408.46	1.47	1.15	0.92	MWD
7418.00	92.10	337.70	6163.36	1399.39	-527.39	1495.38	1.65	1.49	-0.69	MWD
7505.00	90.90	337.90	6161.08	1479.91	-560.25	1582.28	1.40	-1.38	0.23	MWD
7592.00	88.70	337.40	6161.39	1560.37	-593.33	1669.20	2.59	-2.53	-0.57	MWD
7678.00	90.90	341.80	6161.69	1640.95	-623.30	1755.17	5.72	2.56	5.12	MWD
7765.00	91.10	343.30	6160.17	1723.94	-649.38	1842.07	1.74	0.23	1.72	MWD
7852.00	90.20	344.50	6159.18	1807.52	-673.51	1928.86	1.72	-1.03	1.38	MWD
7939.00	91.00	343.70	6158.27	1891.18	-697.34	2015.63	1.30	0.92	-0.92	MWD
7982.00	90.30	342.40	6157.78	1932.31	-709.88	2058.57	3.43	-1.63	-3.02	MWD
8025.00	91.70	344.20	6157.03	1973.49	-722.23	2101.49	5.30	3.26	4.19	MWD
8112.00	90.40	342.20	6155.44	2056.75	-747.37	2188.33	2.74	-1.49	-2.30	MWD
8199.00	88.80	340.90	6156.04	2139.28	-774.90	2275.29	2.37	-1.84	-1.49	MWD
8286.00	91.70	342.40	6155.67	2221.84	-802.29	2362.24	3.75	3.33	1.72	MWD
8373.00	91.80	341.20	6153.01	2304.45	-829.45	2449.16	1.38	0.11	-1.38	MWD
8460.00	88.80	340.50	6152.55	2386.62	-857.98	2536.14	3.54	-3.45	-0.80	MWD
8546.00	87.00	339.00	6155.70	2467.25	-887.73	2622.07	2.72	-2.09	-1.74	MWD
8633.00	87.90	338.30	6159.57	2548.19	-919.37	2708.96	1.31	1.03	-0.80	MWD
8720.00	89.20	338.30	6161.78	2629.00	-951.52	2795.89	1.49	1.49	0.00	MWD
8807.00	90.40	339.30	6162.08	2710.11	-982.98	2882.87	1.80	1.38	1.15	MWD
8894.00	91.40	338.40	6160.71	2791.24	-1014.37	2969.84	1.55	1.15	-1.03	MWD
8981.00	89.90	339.00	6159.73	2872.29	-1045.97	3056.81	1.86	-1.72	0.69	MWD
9067.00	90.50	338.10	6159.43	2952.33	-1077.42	3142.78	1.26	0.70	-1.05	MWD
9154.00	91.50	339.60	6157.91	3033.45	-1108.80	3229.75	2.07	1.15	1.72	MWD
9241.00	90.20	339.00	6156.62	3114.83	-1139.55	3316.73	1.65	-1.49	-0.69	MWD
9328.00	91.40	339.70	6155.40	3196.23	-1170.23	3403.71	1.60	1.38	0.80	MWD
9414.00	89.60	340.40	6154.65	3277.06	-1199.57	3489.70	2.25	-2.09	0.81	MWD
9501.00	91.30	339.20	6153.97	3358.70	-1229.61	3576.70	2.39	1.95	-1.38	MWD
9588.00	89.60	340.40	6153.29	3440.34	-1259.65	3663.69	2.39	-1.95	1.38	MWD
9675.00	90.00	340.70	6153.59	3522.38	-1288.62	3750.68	0.57	0.46	0.34	MWD
9762.00	90.70	339.10	6153.06	3604.07	-1318.51	3837.68	2.01	0.80	-1.84	MWD
9849.00	90.90	338.30	6151.84	3685.12	-1350.11	3924.65	0.95	0.23	-0.92	MWD
9935.00	91.10	339.10	6150.34	3765.23	-1381.35	4010.61	0.96	0.23	0.93	MWD
10022.00	88.40	339.10	6150.72	3846.50	-1412.38	4097.59	3.10	-3.10	0.00	MWD
10109.00	88.70	338.40	6152.92	3927.56	-1443.90	4184.54	0.88	0.34	-0.80	MWD
10196.00	88.80	338.60	6154.82	4008.49	-1475.78	4271.49	0.26	0.11	0.23	MWD
10283.00	89.70	339.60	6155.96	4089.75	-1506.81	4358.47	1.55	1.03	1.15	MWD
10370.00	91.40	339.50	6155.12	4171.26	-1537.21	4445.46	1.96	1.95	-0.11	MWD
10457.00	92.20	338.80	6152.39	4252.53	-1568.16	4532.41	1.22	0.92	-0.80	MWD
10543.00	93.00	338.00	6148.49	4332.40	-1599.78	4618.28	1.31	0.93	-0.93	MWD

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10630.00	91.90	337.60	6144.77	4412.88	-1632.62	4705.14	1.35	-1.26	-0.46	MWD
10717.00	91.50	340.50	6142.19	4494.08	-1663.71	4792.08	3.36	-0.46	3.33	MWD
10804.00	89.90	341.30	6141.13	4576.28	-1692.18	4879.06	2.06	-1.84	0.92	MWD
10890.00	91.70	342.30	6139.93	4657.97	-1719.03	4965.00	2.39	2.09	1.16	MWD
10977.00	90.40	342.30	6138.33	4740.84	-1745.48	5051.92	1.49	-1.49	0.00	MWD
11064.00	91.30	342.50	6137.04	4823.75	-1771.78	5138.83	1.06	1.03	0.23	MWD
11151.00	89.70	343.90	6136.28	4907.03	-1796.93	5225.69	2.44	-1.84	1.61	MWD
11237.00	90.20	341.30	6136.36	4989.09	-1822.64	5311.59	3.08	0.58	-3.02	MWD
11324.00	90.90	339.00	6135.52	5070.91	-1852.18	5398.58	2.76	0.80	-2.64	MWD
11411.00	91.60	339.20	6133.62	5152.17	-1883.21	5485.55	0.84	0.80	0.23	MWD
11498.00	92.40	339.30	6130.59	5233.47	-1914.01	5572.49	0.93	0.92	0.11	MWD
11584.00	91.40	341.20	6127.74	5314.36	-1943.05	5658.43	2.50	-1.16	2.21	MWD
11671.00	89.90	341.30	6126.75	5396.74	-1971.02	5745.40	1.73	-1.72	0.11	MWD
11758.00	91.30	344.10	6125.84	5479.79	-1996.88	5832.29	3.60	1.61	3.22	MWD
11844.00	89.40	341.20	6125.31	5561.86	-2022.53	5918.19	4.03	-2.21	-3.37	MWD
11931.00	89.90	342.50	6125.84	5644.53	-2049.63	6005.14	1.60	0.57	1.49	MWD
12018.00	91.40	344.00	6124.86	5727.83	-2074.70	6091.99	2.44	1.72	1.72	MWD
12105.00	92.70	341.90	6121.75	5810.94	-2100.19	6178.81	2.84	1.49	-2.41	MWD
12192.00	93.70	341.20	6116.89	5893.34	-2127.68	6265.64	1.40	1.15	-0.80	MWD
12278.00	92.00	340.80	6112.61	5974.55	-2155.64	6351.52	2.03	-1.98	-0.47	MWD
12365.00	90.10	339.70	6111.02	6056.42	-2185.03	6438.50	2.52	-2.18	-1.26	MWD
12452.00	91.80	344.90	6109.58	6139.26	-2211.47	6525.38	6.29	1.95	5.98	MWD
12539.00	89.00	344.50	6108.97	6223.16	-2234.42	6612.08	3.25	-3.22	-0.46	MWD
12625.00	86.80	340.80	6112.12	6305.17	-2260.04	6697.91	5.00	-2.56	-4.30	MWD
12712.00	84.90	339.00	6118.42	6386.66	-2289.86	6784.67	3.00	-2.18	-2.07	MWD
12799.00	86.40	338.00	6125.02	6467.36	-2321.65	6871.39	2.07	1.72	-1.15	MWD
12886.00	87.10	337.70	6129.95	6547.81	-2354.40	6958.19	0.88	0.80	-0.34	MWD
12972.00	87.60	339.00	6133.92	6627.66	-2386.10	7044.06	1.62	0.58	1.51	MWD
13059.00	88.50	337.00	6136.88	6708.27	-2418.67	7130.95	2.52	1.03	-2.30	MWD
13102.00	88.90	338.10	6137.86	6748.00	-2435.08	7173.90	2.72	0.93	2.56	MWD
13153.00	88.90	338.10	6138.84	6795.31	-2454.10	7224.86	0.00	0.00	0.00	PROJECTED to TD

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
3H SL			0.00	0.00	0.00	585111.98	1683778.46	40	6	3.484 N	80	37	49.442 W
3H BHL			6138.84	6795.31	-2454.10	591907.29	1681324.36	40	7	10.327 N	80	38	22.129 W

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MORGANTOWN, WV