

**CHESAPEAKE ENERGY CORPORATION**

Field: Ohio County, WV  
 Site: Edward Nichols Pad  
 Well: 8H  
 Wellpath: Lateral

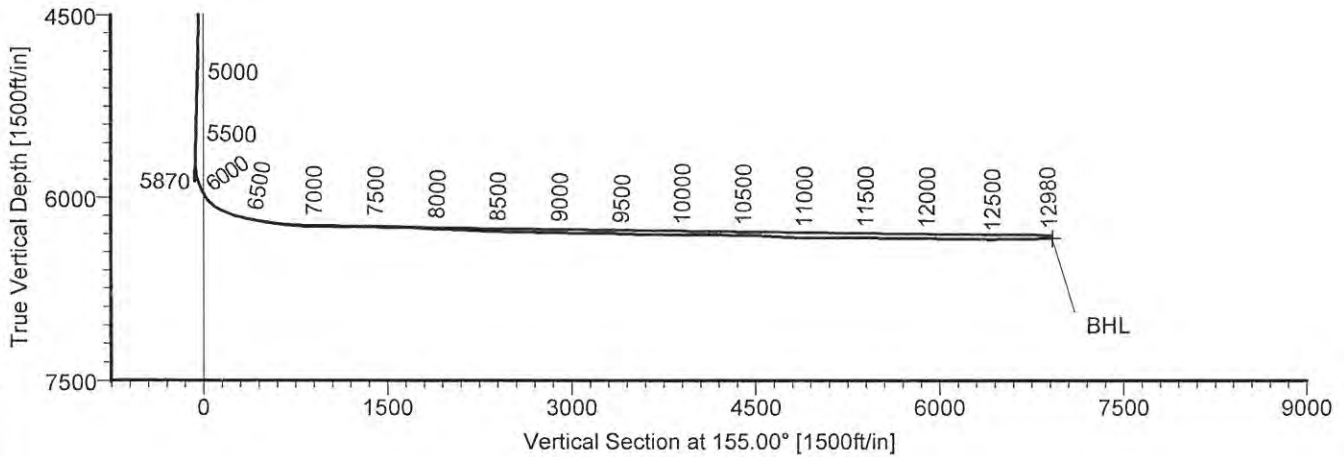
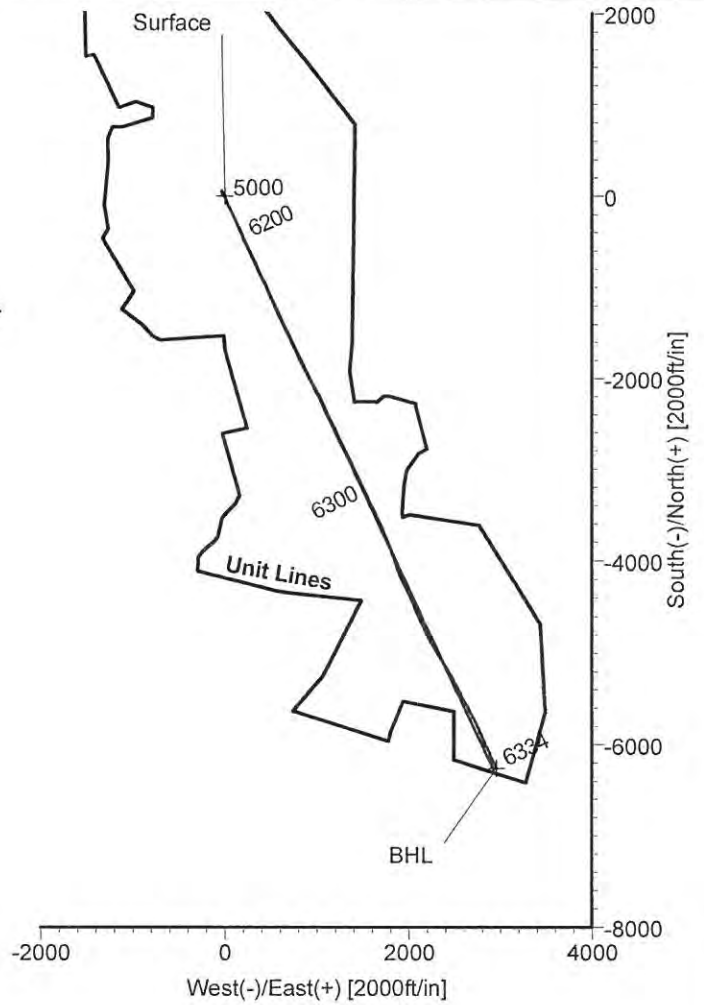


Azimuths to Grid North  
 True North: 0.72°  
 Magnetic North: -7.95°

Magnetic Field  
 Strength: 53034nT  
 Dip Angle: 67.69°  
 Date: 09/04/2011  
 Model: IGRF2010

**LEGEND**

- 8H, Lateral, Plan #4
- 8H (Pilot Hole)
- Lateral



**TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Surface	0.00	0.00	0.00	585113.20	1683758.50	Point
BHL	6333.78	-6258.02	2956.32	578855.18	1686714.82	Point

Wellpath: (8H/Lateral)

Created By: Ivonne Gonzalez

Date: 09/19/2011

ARCHER DIRECTIONAL DRILLING SERVICES  
 911 Regional Park Drive Houston, Texas 77060  
 Phone: 713-934-9600 Fax: 713-934-9067



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WV GEOLOGICAL SURVEY  
 MORGANTOWN, WV

# ARCHER Survey Report

<b>Company:</b> CHESAPEAKE ENERGY CORPORATION	<b>Date:</b> 09/19/2011	<b>Time:</b> 09:11:30	<b>Page:</b> 1
<b>Field:</b> Ohio County, WV	<b>Co-ordinate(NE) Reference:</b> Well: 8H, Grid North		
<b>Site:</b> Edward Nichols Pad	<b>Vertical (TVD) Reference:</b> Est.1310'GL+20'KB 1330.0		
<b>Well:</b> 8H	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,155.00Azi)		
<b>Wellpath:</b> Lateral	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Adapti	

<b>Field:</b> Ohio County, WV			
<b>Map System:</b> US State Plane Coordinate System 1927		<b>Map Zone:</b> West Virginia, Northern Zone	
<b>Geo Datum:</b> NAD27 (Clarke 1866)		<b>Coordinate System:</b> Well Centre	
<b>Sys Datum:</b> Mean Sea Level		<b>Geomagnetic Model:</b> IGRF2010	

<b>Site:</b> Edward Nichols Pad			
Centered on well 8H			
<b>Site Position:</b>	<b>Northing:</b> 585113.20 ft	<b>Latitude:</b> 40 6 3.494 N	
<b>From:</b> Map	<b>Easting:</b> 1683758.50 ft	<b>Longitude:</b> 80 37 49.699 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 1310.00 ft		<b>Grid Convergence:</b> -0.72 deg	

<b>Well:</b> 8H		<b>Slot Name:</b> 8H	
<b>Well Position:</b>	<b>+N/-S</b> 0.00 ft	<b>Northing:</b> 585113.20 ft	<b>Latitude:</b> 40 6 3.494 N
	<b>+E/-W</b> 0.00 ft	<b>Easting:</b> 1683758.50 ft	<b>Longitude:</b> 80 37 49.699 W
<b>Position Uncertainty:</b> 0.00 ft			

<b>Wellpath:</b> Lateral		<b>Drilled From:</b> Pilot Hole	
<b>Current Datum:</b> Est.1310'GL+20'KB	<b>Height</b> 1330.00 ft	<b>Tie-on Depth:</b> 5870.00 ft	
<b>Magnetic Data:</b> 09/04/2011		<b>Above System Datum:</b> Mean Sea Level	
<b>Field Strength:</b> 53034 nT		<b>Declination:</b> -8.67 deg	
<b>Vertical Section:</b> Depth From (TVD)	<b>+N/-S</b>	<b>Mag Dip Angle:</b> 67.69 deg	
ft	ft	ft	deg
0.00	0.00	0.00	155.00

<b>Survey Program for Definitive Wellpath</b>			
<b>Date:</b> 09/19/2011	<b>Validated:</b> No	<b>Version:</b> 0	
<b>Actual From</b>	<b>To</b>	<b>Survey</b>	<b>Toolcode</b> <b>Tool Name</b>
ft	ft		
100.00	5700.00	Survey #1 (100.00-5870.00)	Gyroscope      Gyroscope
5739.00	12932.00	Survey #2 (5739.00-12932.00)	MWD      Std MWD
12980.00	12980.00	Survey #3 (12980.00-12980.00)	Project      Projection

Survey										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
100.00	0.32	45.30	100.00	0.20	0.20	-0.09	0.32	0.32	0.00	Gyroscope
200.00	0.29	148.95	200.00	0.18	0.53	0.06	0.48	-0.03	103.65	Gyroscope
300.00	0.22	138.60	300.00	-0.18	0.79	0.50	0.08	-0.07	-10.35	Gyroscope
400.00	0.17	174.40	400.00	-0.48	0.93	0.82	0.13	-0.05	35.80	Gyroscope
500.00	0.27	219.81	500.00	-0.81	0.79	1.06	0.19	0.10	45.41	Gyroscope
600.00	0.42	273.84	599.99	-0.96	0.27	0.99	0.34	0.15	54.03	Gyroscope
700.00	0.36	261.65	699.99	-0.98	-0.40	0.72	0.10	-0.06	-12.19	Gyroscope
800.00	0.05	197.05	799.99	-1.07	-0.73	0.66	0.34	-0.31	-64.60	Gyroscope
900.00	0.22	35.83	899.99	-0.96	-0.63	0.60	0.27	0.17	-161.22	Gyroscope
1000.00	0.20	350.01	999.99	-0.63	-0.54	0.34	0.16	-0.02	-45.82	Gyroscope
1100.00	0.34	255.88	1099.99	-0.53	-0.86	0.11	0.41	0.14	-94.13	Gyroscope
1200.00	0.27	236.85	1199.99	-0.73	-1.35	0.09	0.12	-0.07	-19.03	Gyroscope
1300.00	0.32	246.20	1299.99	-0.97	-1.80	0.12	0.07	0.05	9.35	Gyroscope
1400.00	0.31	232.34	1399.99	-1.25	-2.27	0.17	0.08	-0.01	-13.86	Gyroscope
1500.00	0.54	310.63	1499.98	-1.11	-2.84	-0.20	0.57	0.23	78.29	Gyroscope
1600.00	0.51	285.89	1599.98	-0.68	-3.63	-0.92	0.23	-0.03	-24.74	Gyroscope
1700.00	0.32	229.51	1699.98	-0.74	-4.27	-1.13	0.43	-0.19	-56.38	Gyroscope
1800.00	0.41	321.22	1799.98	-0.64	-4.70	-1.41	0.53	0.09	91.71	Gyroscope
1900.00	0.42	297.70	1899.97	-0.19	-5.25	-2.05	0.17	0.01	-23.52	Gyroscope
2000.00	0.20	179.73	1999.97	-0.20	-5.58	-2.18	0.54	-0.22	-117.97	Gyroscope

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## Survey Report

**Company:** CHESAPEAKE ENERGY CORPORATION  
**Field:** Ohio County, WV  
**Site:** Edward Nichols Pad  
**Well:** 8H  
**Wellpath:** Lateral

**Date:** 09/19/2011      **Time:** 09:11:30      **Page:** 2  
**Co-ordinate(NE) Reference:** Well: 8H, Grid North  
**Vertical (TVD) Reference:** Est.1310'GL+20'KB 1330.0  
**Section (VS) Reference:** Well (0.00N,0.00E,155.00Azi)  
**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
2100.00	0.53	285.20	2099.97	-0.25	-6.02	-2.32	0.61	0.33	105.47	Gyroscope
2200.00	0.17	228.26	2199.97	-0.23	-6.58	-2.57	0.46	-0.36	-56.94	Gyroscope
2300.00	0.76	302.38	2299.97	0.03	-7.25	-3.09	0.73	0.59	74.12	Gyroscope
2400.00	0.64	278.54	2399.96	0.47	-8.36	-3.96	0.31	-0.12	-23.84	Gyroscope
2500.00	0.41	319.75	2499.95	0.82	-9.15	-4.61	0.43	-0.23	41.21	Gyroscope
2600.00	0.87	289.58	2599.95	1.35	-10.09	-5.49	0.56	0.46	-30.17	Gyroscope
2700.00	1.12	296.45	2699.93	2.04	-11.68	-6.79	0.28	0.25	6.87	Gyroscope
2800.00	0.76	335.52	2799.92	3.08	-12.83	-8.21	0.71	-0.36	39.07	Gyroscope
2900.00	0.53	306.27	2899.91	3.96	-13.48	-9.28	0.39	-0.23	-29.25	Gyroscope
3000.00	0.91	305.03	2999.91	4.69	-14.50	-10.38	0.38	0.38	-1.24	Gyroscope
3100.00	1.10	324.41	3099.89	5.92	-15.71	-12.01	0.39	0.19	19.38	Gyroscope
3200.00	0.77	335.80	3199.88	7.32	-16.55	-13.62	0.38	-0.33	11.39	Gyroscope
3300.00	0.82	288.72	3299.87	8.16	-17.50	-14.79	0.64	0.05	-47.08	Gyroscope
3400.00	1.25	309.48	3399.85	9.08	-19.02	-16.27	0.56	0.43	20.76	Gyroscope
3500.00	1.22	325.60	3499.83	10.65	-20.46	-18.30	0.35	-0.03	16.12	Gyroscope
3600.00	1.22	304.75	3599.81	12.14	-21.94	-20.27	0.44	0.00	-20.85	Gyroscope
3700.00	1.24	308.05	3699.79	13.41	-23.67	-22.16	0.07	0.02	3.30	Gyroscope
3800.00	0.66	311.60	3799.77	14.46	-24.95	-23.65	0.58	-0.58	3.55	Gyroscope
3900.00	0.69	329.89	3899.76	15.37	-25.68	-24.78	0.22	0.03	18.29	Gyroscope
4000.00	1.23	351.23	3999.75	16.95	-26.15	-26.41	0.64	0.54	21.34	Gyroscope
4100.00	1.05	1.61	4099.73	18.92	-26.28	-28.26	0.27	-0.18	10.38	Gyroscope
4200.00	1.09	5.31	4199.71	20.79	-26.17	-29.90	0.08	0.04	3.70	Gyroscope
4300.00	1.56	350.75	4299.69	23.08	-26.30	-32.03	0.57	0.47	-14.56	Gyroscope
4400.00	1.06	340.79	4399.66	25.29	-26.82	-34.26	0.55	-0.50	-9.96	Gyroscope
4500.00	1.77	5.20	4499.63	27.71	-26.99	-36.52	0.92	0.71	24.41	Gyroscope
4600.00	1.15	16.37	4599.60	30.21	-26.57	-38.60	0.68	-0.62	11.17	Gyroscope
4700.00	1.72	9.99	4699.57	32.65	-26.02	-40.59	0.59	0.57	-6.38	Gyroscope
4800.00	1.00	12.86	4799.54	34.98	-25.57	-42.50	0.72	-0.72	2.87	Gyroscope
4900.00	1.06	1.12	4899.52	36.75	-25.36	-44.02	0.22	0.06	-11.74	Gyroscope
5000.00	1.49	359.11	4999.50	38.98	-25.36	-46.04	0.43	0.43	-2.01	Gyroscope
5100.00	1.58	356.26	5099.46	41.65	-25.47	-48.51	0.12	0.09	-2.85	Gyroscope
5200.00	1.58	346.67	5199.42	44.37	-25.88	-51.15	0.26	0.00	-9.59	Gyroscope
5219.00	1.50	354.80	5218.41	44.87	-25.96	-51.64	1.22	-0.42	42.79	Gyroscope
5263.00	1.50	351.30	5262.40	46.01	-26.10	-52.73	0.21	0.00	-7.95	Gyroscope
5300.00	1.86	347.22	5299.38	47.08	-26.30	-53.78	1.02	0.97	-11.03	Gyroscope
5306.00	1.50	347.30	5305.38	47.25	-26.34	-53.96	6.00	-6.00	1.33	Gyroscope
5349.00	1.50	346.90	5348.37	48.35	-26.59	-55.06	0.02	0.00	-0.93	Gyroscope
5393.00	1.50	347.80	5392.35	49.47	-26.85	-56.18	0.05	0.00	2.05	Gyroscope
5400.00	1.17	341.39	5399.35	49.63	-26.89	-56.34	5.17	-4.71	-91.57	Gyroscope
5436.00	1.40	344.50	5435.34	50.40	-27.12	-57.14	0.67	0.64	8.64	Gyroscope
5479.00	1.40	342.60	5478.33	51.41	-27.42	-58.18	0.11	0.00	-4.42	Gyroscope
5500.00	1.72	352.63	5499.32	51.97	-27.54	-58.74	2.00	1.52	47.76	Gyroscope
5523.00	1.40	343.30	5522.31	52.58	-27.66	-59.34	1.77	-1.39	-40.57	Gyroscope
5566.00	1.30	340.80	5565.30	53.54	-27.98	-60.35	0.27	-0.23	-5.81	Gyroscope
5600.00	1.60	332.50	5599.29	54.33	-28.32	-61.21	1.07	0.88	-24.41	Gyroscope
5609.00	1.30	339.50	5608.29	54.53	-28.41	-61.43	3.87	-3.33	77.78	Gyroscope
5653.00	1.40	340.60	5652.27	55.51	-28.77	-62.47	0.23	0.23	2.50	Gyroscope
5700.00	1.04	333.77	5699.26	56.43	-29.15	-63.46	0.82	-0.77	-14.53	Gyroscope
5739.00	1.80	133.00	5738.26	56.33	-28.86	-63.25	7.17	1.95	408.28	MWD
5783.00	7.20	146.40	5782.11	53.56	-26.82	-59.88	12.42	12.27	30.45	MWD
5826.00	12.00	153.90	5824.49	47.30	-23.36	-52.74	11.51	11.16	17.44	MWD
5869.00	17.30	158.00	5866.08	37.35	-19.00	-41.88	12.55	12.33	9.53	MWD
5913.00	22.50	158.20	5907.44	23.46	-13.42	-26.93	11.82	11.82	0.45	MWD
5956.00	28.10	156.70	5946.30	6.50	-6.35	-8.58	13.11	13.02	-3.49	MWD

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Date: 09/19/2011 Time: 09:11:30 Page: 3  
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 Section (VS) Reference: Well (0.00N,0.00E,155.00Azi)  
 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
6000.00	33.80	155.80	5984.02	-14.19	2.77	14.04	13.00	12.95	-2.05	MWD
6043.00	39.70	155.10	6018.46	-37.58	13.47	39.75	13.76	13.72	-1.63	MWD
6086.00	46.20	155.20	6049.92	-64.15	25.77	69.03	15.12	15.12	0.23	MWD
6130.00	53.20	154.90	6078.36	-94.56	39.92	102.57	15.92	15.91	-0.68	MWD
6173.00	60.40	155.00	6101.89	-127.13	55.15	138.53	16.75	16.74	0.23	MWD
6217.00	66.40	155.40	6121.58	-162.83	71.64	177.85	13.66	13.64	0.91	MWD
6260.00	70.70	155.40	6137.30	-199.21	88.29	217.86	10.00	10.00	0.00	MWD
6304.00	72.70	155.50	6151.12	-237.21	105.65	259.64	4.55	4.55	0.23	MWD
6347.00	76.70	156.10	6162.46	-275.03	122.65	301.10	9.40	9.30	1.40	MWD
6390.00	78.30	156.70	6171.77	-313.50	139.45	343.06	3.96	3.72	1.40	MWD
6434.00	79.50	157.00	6180.24	-353.20	156.43	386.22	2.81	2.73	0.68	MWD
6477.00	80.30	157.10	6187.78	-392.18	172.93	428.52	1.87	1.86	0.23	MWD
6521.00	81.00	157.10	6194.93	-432.18	189.83	471.91	1.59	1.59	0.00	MWD
6564.00	81.00	156.40	6201.65	-471.20	206.59	514.36	1.61	0.00	-1.63	MWD
6607.00	81.40	155.60	6208.23	-510.02	223.88	556.85	2.06	0.93	-1.86	MWD
6651.00	83.10	155.80	6214.16	-549.75	241.82	600.44	3.89	3.86	0.45	MWD
6694.00	84.70	155.20	6218.73	-588.66	259.55	643.19	3.97	3.72	-1.40	MWD
6737.00	85.90	154.90	6222.26	-627.51	277.62	686.05	2.88	2.79	-0.70	MWD
6781.00	87.30	155.30	6224.87	-667.35	296.12	729.97	3.31	3.18	0.91	MWD
6824.00	87.80	154.80	6226.70	-706.30	314.24	772.93	1.64	1.16	-1.16	MWD
6867.00	88.20	154.80	6228.21	-745.19	332.54	815.90	0.93	0.93	0.00	MWD
6911.00	88.80	154.60	6229.36	-784.95	351.33	859.89	1.44	1.36	-0.45	MWD
6954.00	89.30	155.00	6230.07	-823.85	369.64	902.88	1.49	1.16	0.93	MWD
6997.00	89.80	154.70	6230.41	-862.78	387.91	945.88	1.36	1.16	-0.70	MWD
7041.00	89.50	155.20	6230.68	-902.64	406.54	989.88	1.33	-0.68	1.14	MWD
7128.00	88.50	155.20	6232.20	-981.60	443.03	1076.86	1.15	-1.15	0.00	MWD
7172.00	89.20	155.80	6233.08	-1021.63	461.27	1120.85	2.10	1.59	1.36	MWD
7215.00	89.80	155.60	6233.45	-1060.82	478.97	1163.85	1.47	1.40	-0.47	MWD
7258.00	89.80	156.00	6233.60	-1100.04	496.59	1206.84	0.93	0.00	0.93	MWD
7302.00	89.60	156.10	6233.83	-1140.25	514.45	1250.84	0.51	-0.45	0.23	MWD
7345.00	89.60	156.00	6234.13	-1179.55	531.91	1293.83	0.23	0.00	-0.23	MWD
7389.00	88.90	155.20	6234.71	-1219.61	550.08	1337.82	2.42	-1.59	-1.82	MWD
7428.00	89.00	155.10	6235.42	-1255.00	566.47	1376.81	0.36	0.26	-0.26	MWD
7475.00	89.50	155.10	6236.04	-1297.62	586.26	1423.81	1.06	1.06	0.00	MWD
7562.00	87.70	155.20	6238.17	-1376.54	622.80	1510.78	2.07	-2.07	0.11	MWD
7649.00	87.00	155.00	6242.19	-1455.37	659.40	1597.69	0.84	-0.80	-0.23	MWD
7736.00	86.70	155.00	6246.97	-1534.10	696.11	1684.55	0.34	-0.34	0.00	MWD
7823.00	86.60	155.10	6252.05	-1612.85	732.74	1771.41	0.16	-0.11	0.11	MWD
7910.00	87.20	155.50	6256.76	-1691.77	769.05	1858.28	0.83	0.69	0.46	MWD
7996.00	88.00	154.80	6260.36	-1769.74	805.15	1944.20	1.24	0.93	-0.81	MWD
8083.00	89.00	154.60	6262.64	-1848.36	842.32	2031.17	1.17	1.15	-0.23	MWD
8170.00	86.70	151.50	6265.90	-1925.85	881.71	2118.04	4.43	-2.64	-3.56	MWD
8257.00	88.00	152.00	6269.92	-2002.40	922.85	2204.80	1.60	1.49	0.57	MWD
8344.00	87.60	150.20	6273.26	-2078.51	964.86	2291.54	2.12	-0.46	-2.07	MWD
8430.00	88.40	152.90	6276.26	-2154.07	1005.80	2377.32	3.27	0.93	3.14	MWD
8517.00	89.50	154.50	6277.86	-2232.05	1044.34	2464.28	2.23	1.26	1.84	MWD
8604.00	88.70	157.00	6279.23	-2311.35	1080.06	2551.25	3.02	-0.92	2.87	MWD
8691.00	89.20	156.00	6280.82	-2391.12	1114.75	2638.21	1.28	0.57	-1.15	MWD
8778.00	87.40	152.20	6283.40	-2469.33	1152.72	2725.14	4.83	-2.07	-4.37	MWD
8821.00	88.65	154.50	6284.88	-2507.74	1172.00	2768.09	6.08	2.91	5.35	MWD
8952.00	89.80	156.30	6286.66	-2626.83	1226.52	2899.07	1.63	0.88	1.37	MWD
9038.00	88.20	153.10	6288.16	-2704.56	1263.26	2985.04	4.16	-1.86	-3.72	MWD
9125.00	89.00	154.10	6290.28	-2782.46	1301.93	3071.99	1.47	0.92	1.15	MWD

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# ARCHER Survey Report

<b>Company:</b> CHESAPEAKE ENERGY CORPORATION	<b>Date:</b> 09/19/2011	<b>Time:</b> 09:11:30	<b>Page:</b> 4
<b>Field:</b> Ohio County, WV	<b>Co-ordinate(NE) Reference:</b> Well: 8H, Grid North		
<b>Site:</b> Edward Nichols Pad	<b>Vertical (TVD) Reference:</b> Est.1310'GL+20'KB 1330.0		
<b>Well:</b> 8H	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,155.00Azi)		
<b>Wellpath:</b> Lateral	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> 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
9212.00	89.90	154.40	6291.12	-2860.82	1339.73	3158.97	1.09	1.03	0.34	MWD
9299.00	89.90	155.10	6291.27	-2939.50	1376.84	3245.97	0.80	0.00	0.80	MWD
9385.00	89.20	155.20	6291.95	-3017.54	1412.98	3331.97	0.82	-0.81	0.12	MWD
9472.00	87.50	154.50	6294.45	-3096.25	1449.94	3418.93	2.11	-1.95	-0.80	MWD
9559.00	88.70	156.60	6297.34	-3175.40	1485.92	3505.87	2.78	1.38	2.41	MWD
9646.00	88.50	153.70	6299.46	-3254.32	1522.47	3592.83	3.34	-0.23	-3.33	MWD
9733.00	89.10	154.90	6301.28	-3332.69	1560.19	3679.81	1.54	0.69	1.38	MWD
9820.00	88.70	153.40	6302.95	-3410.97	1598.11	3766.78	1.78	-0.46	-1.72	MWD
9906.00	90.00	156.00	6303.93	-3488.71	1634.86	3852.76	3.38	1.51	3.02	MWD
9993.00	89.40	154.50	6304.38	-3567.71	1671.28	3939.76	1.86	-0.69	-1.72	MWD
10080.00	89.50	156.00	6305.22	-3646.71	1707.70	4026.75	1.73	0.11	1.72	MWD
10167.00	89.40	156.90	6306.06	-3726.46	1742.46	4113.72	1.04	-0.11	1.03	MWD
10254.00	89.00	157.20	6307.27	-3806.57	1776.38	4200.65	0.57	-0.46	0.34	MWD
10340.00	89.00	158.60	6308.77	-3886.24	1808.73	4286.53	1.63	0.00	1.63	MWD
10427.00	89.80	162.60	6309.68	-3968.27	1837.62	4373.09	4.69	0.92	4.60	MWD
10514.00	89.80	161.90	6309.99	-4051.13	1864.14	4459.39	0.80	0.00	-0.80	MWD
10601.00	86.80	157.90	6312.57	-4132.77	1894.02	4546.01	5.75	-3.45	-4.60	MWD
10688.00	86.60	153.90	6317.58	-4212.04	1929.47	4632.84	4.60	-0.23	-4.60	MWD
10775.00	86.40	152.80	6322.89	-4289.65	1968.42	4719.64	1.28	-0.23	-1.26	MWD
10861.00	88.10	153.90	6327.02	-4366.42	2006.95	4805.50	2.35	1.98	1.28	MWD
10948.00	90.40	157.50	6328.15	-4445.69	2042.74	4892.46	4.91	2.64	4.14	MWD
11035.00	88.50	156.80	6328.99	-4525.85	2076.52	4979.39	2.33	-2.18	-0.80	MWD
11122.00	90.30	157.10	6329.90	-4605.90	2110.58	5066.33	2.10	2.07	0.34	MWD
11208.00	88.40	152.50	6330.88	-4683.69	2147.18	5152.30	5.79	-2.21	-5.35	MWD
11295.00	90.80	157.50	6331.48	-4762.50	2183.94	5239.27	6.37	2.76	5.75	MWD
11382.00	90.00	151.50	6330.88	-4840.99	2221.37	5326.22	6.96	-0.92	-6.90	MWD
11468.00	89.20	149.50	6331.48	-4915.83	2263.72	5411.95	2.50	-0.93	-2.33	MWD
11555.00	89.60	148.90	6332.39	-4990.56	2308.26	5498.50	0.83	0.46	-0.69	MWD
11641.00	89.30	148.50	6333.21	-5064.04	2352.94	5583.97	0.58	-0.35	-0.47	MWD
11728.00	89.00	148.60	6334.50	-5138.25	2398.33	5670.41	0.36	-0.34	0.11	MWD
11815.00	89.50	150.90	6335.64	-5213.39	2442.15	5757.03	2.71	0.57	2.64	MWD
11902.00	89.70	152.90	6336.25	-5290.13	2483.12	5843.90	2.31	0.23	2.30	MWD
11989.00	89.40	151.30	6336.93	-5367.01	2523.83	5930.78	1.87	-0.34	-1.84	MWD
12076.00	89.10	152.00	6338.07	-5443.57	2565.14	6017.63	0.88	-0.34	0.80	MWD
12162.00	89.60	152.10	6339.05	-5519.54	2605.44	6103.51	0.59	0.58	0.12	MWD
12249.00	89.10	151.70	6340.04	-5596.28	2646.42	6190.37	0.74	-0.57	-0.46	MWD
12336.00	89.10	152.60	6341.40	-5673.19	2687.06	6277.25	1.03	0.00	1.03	MWD
12423.00	89.60	155.00	6342.39	-5751.24	2725.46	6364.22	2.82	0.57	2.76	MWD
12509.00	90.20	156.00	6342.54	-5829.49	2761.13	6450.22	1.36	0.70	1.16	MWD
12596.00	90.50	155.90	6342.01	-5908.94	2796.58	6537.20	0.36	0.34	-0.11	MWD
12683.00	90.80	155.60	6341.02	-5988.26	2832.31	6624.19	0.49	0.34	-0.34	MWD
12769.00	91.00	155.20	6339.67	-6066.44	2868.11	6710.18	0.52	0.23	-0.47	MWD
12856.00	91.50	155.40	6337.77	-6145.46	2904.45	6797.16	0.62	0.57	0.23	MWD
12932.00	92.00	155.20	6335.45	-6214.48	2936.19	6873.12	0.71	0.66	-0.26	MWD
12980.00	92.00	155.20	6333.78	-6258.02	2956.32	6921.09	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 --->			<--- Longitude --->				
								Deg	Min	Sec	Deg	Min	Sec		
Surface			0.00	0.00	0.00	585113.20	1683758.50	40	6	3.494	N	80	37	49.699	W
BHL			6333.78	-6258.02	2956.32	578855.18	1686714.82	40	5	2.019	N	80	37	10.654	W

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