



**Ryan Energy Directional Drilling Report**

**Field: Marshall Co. WV  
Site: Ray Baker 6H  
Well: Well # Ray Baker 6H  
Wellpath: 6H**

Prepared For:

***Chesapeake Appalachia LLC***



**Ryan Energy Technology**

19510 Oil Center Blvd  
Houston, TX 77073  
Ph: 281-443-1414  
Fx: 281-443-1676

[www.ryanenergy.com](http://www.ryanenergy.com)

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**WV GEOLOGICAL SURVEY  
MORGANTOWN, WV**



# Chesapeake Appalachia LLC

Field: Marshall Co. WV  
 Site: Ray Baker 6H  
 Well: Well # Ray Baker 6H  
 Wellpath: 6H



Azimuths to Grid North  
 True North: 0.73°  
 Magnetic North: -7.80°  
 Magnetic Field  
 Strength: 52979nT  
 Dip Angle: 67.51°  
 Date: 9/23/2010  
 Model: IGRF2010

### SITE DETAILS

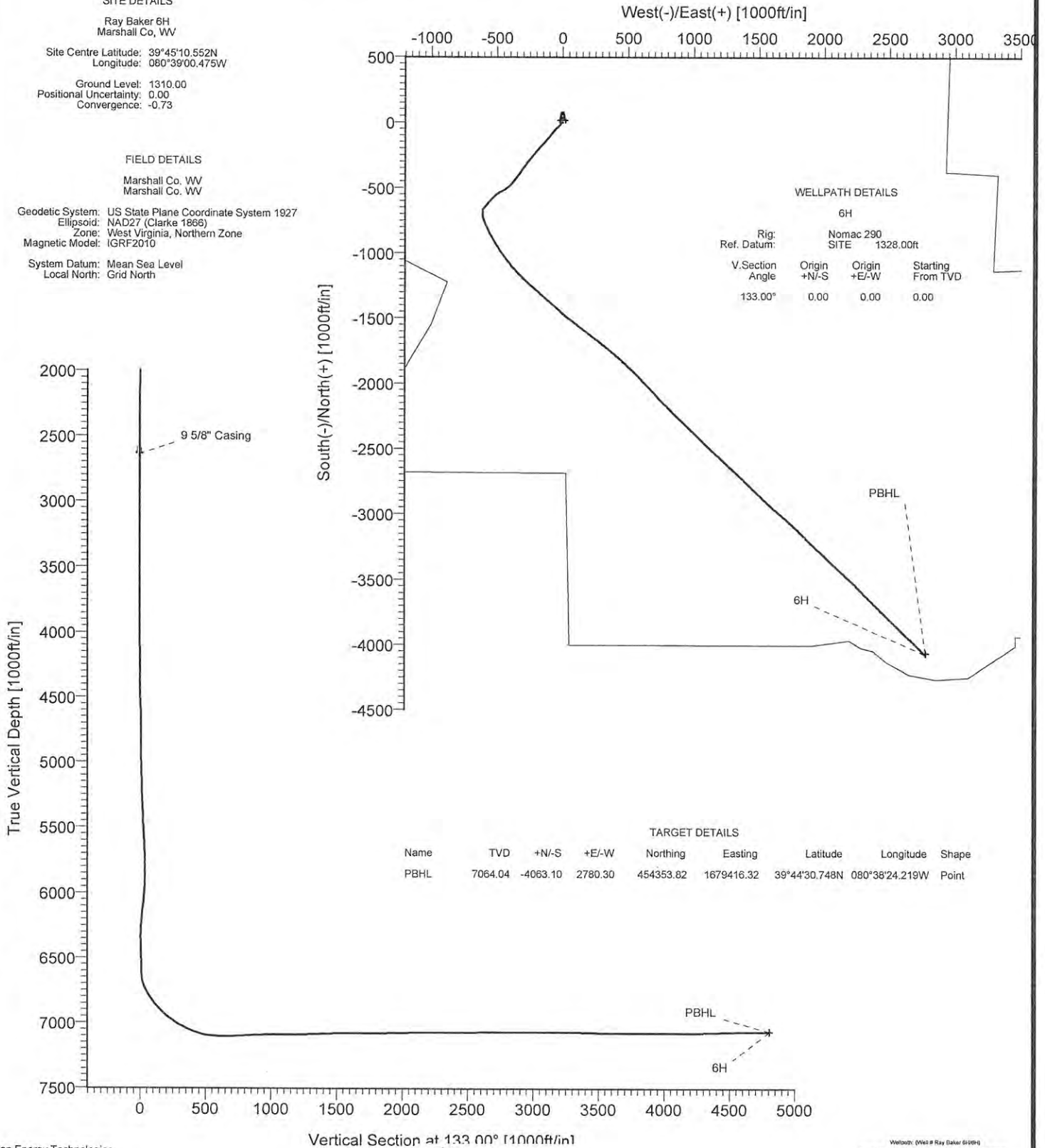
Ray Baker 6H  
 Marshall Co, WV  
 Site Centre Latitude: 39°45'10.552N  
 Longitude: 080°39'00.475W  
 Ground Level: 1310.00  
 Positional Uncertainty: 0.00  
 Convergence: -0.73

### FIELD DETAILS

Marshall Co. WV  
 Marshall Co. WV  
 Geodetic System: US State Plane Coordinate System 1927  
 Ellipsoid: NAD27 (Clarke 1866)  
 Zone: West Virginia, Northern Zone  
 Magnetic Model: IGRF2010  
 System Datum: Mean Sea Level  
 Local North: Grid North

### WELLPATH DETAILS

6H  
 Rig: Nomac 290  
 Ref. Datum: SITE 1328.00ft  
 V. Section Angle: 133.00°  
 Origin +N/-S: 0.00  
 Origin +E/-W: 0.00  
 Starting From TVD: 0.00



### TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7064.04	-4063.10	2780.30	454353.82	1679416.32	39°44'30.748N	080°38'24.219W	Point

Vertical Section at 133.00° [1000ft/in]

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Wellbore: (Well # Ray Baker 6H6H)  
 Created By: Alexis Gonzalez Date: 11/19/2010  
 Checked: \_\_\_\_\_ Date: \_\_\_\_\_  
 Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_

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 MORGANTOWN, WV





# Ryan Energy Technologies Survey Report



<b>Company:</b> Chesapeake Appalachia LLC	<b>Date:</b> 11/16/2010	<b>Time:</b> 13:46:00	<b>Page:</b> 1
<b>Field:</b> Marshall Co. WV	<b>Co-ordinate(NE) Reference:</b> Site: Ray Baker 6H, Grid North		
<b>Site:</b> Ray Baker 6H	<b>Vertical (TVD) Reference:</b> SITE 1328.0		
<b>Well:</b> Well # Ray Baker 6H	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,133.00Azi)		
<b>Wellpath:</b> 6H	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

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

<b>Site:</b> Ray Baker 6H			
Marshall Co, WV			
<b>Site Position:</b>	<b>Northing:</b> 458416.92 ft	<b>Latitude:</b> 39 45 10.552 N	
<b>From:</b> Geographic	<b>Easting:</b> 1676636.02 ft	<b>Longitude:</b> 80 39 0.475 W	
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 1310.00 ft		<b>Grid Convergence:</b> -0.73 deg	

<b>Well:</b> Well # Ray Baker 6H	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Northing:</b> 458416.92 ft
+E/-W 0.00 ft	<b>Easting :</b> 1676636.02 ft
<b>Position Uncertainty:</b> 0.00 ft	<b>Latitude:</b> 39 45 10.552 N
	<b>Longitude:</b> 80 39 0.475 W

<b>Wellpath:</b> 6H	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 9/23/2010	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 52979 nT	<b>Declination:</b> -8.53 deg
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b> 67.51 deg
ft	+N/-S
ft	ft
ft	ft
0.00	0.00
	0.00
	133.00
	deg

<b>Survey Program for Definitive Wellpath</b>			
<b>Date:</b> 11/16/2010	<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	3870.00	Survey #1 (100.00-3870.00)	Gyro      Gyro
3937.00	6696.00	Survey #2 (3937.00-6696.00)	SS      SS
6728.00	11774.00	Survey #3 (6728.00-11774.00)	Ryan MWD      Ryan MWD
11830.00	11830.00	Survey #4 (11830.00-11830.00)	Projection      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	0.23	358.65	100.00	0.20	0.00	-0.14	0.23	0.23	0.00	Gyro
200.00	0.21	3.02	200.00	0.58	0.00	-0.40	0.03	-0.02	4.37	Gyro
300.00	0.34	295.23	300.00	0.89	-0.26	-0.80	0.33	0.13	-67.79	Gyro
400.00	0.46	289.50	400.00	1.15	-0.91	-1.45	0.13	0.12	-5.73	Gyro
500.00	0.15	268.49	499.99	1.28	-1.41	-1.91	0.32	-0.31	-21.01	Gyro
600.00	0.07	283.69	599.99	1.30	-1.60	-2.06	0.08	-0.08	15.20	Gyro
700.00	0.54	152.72	699.99	0.89	-1.45	-1.67	0.59	0.47	-130.97	Gyro
800.00	0.45	124.33	799.99	0.25	-0.91	-0.84	0.26	-0.09	-28.39	Gyro
900.00	0.24	156.29	899.99	-0.16	-0.50	-0.25	0.28	-0.21	31.96	Gyro
1000.00	0.25	167.20	999.99	-0.57	-0.37	0.12	0.05	0.01	10.91	Gyro
1100.00	0.21	174.48	1099.99	-0.96	-0.30	0.44	0.05	-0.04	7.28	Gyro
1200.00	0.20	331.06	1199.99	-0.99	-0.37	0.41	0.40	-0.01	156.58	Gyro
1300.00	0.31	15.55	1299.98	-0.58	-0.38	0.12	0.22	0.11	44.49	Gyro
1400.00	0.25	320.50	1399.98	-0.15	-0.45	-0.22	0.26	-0.06	-55.05	Gyro
1500.00	0.34	319.22	1499.98	0.24	-0.78	-0.74	0.09	0.09	-1.28	Gyro
1600.00	0.29	329.82	1599.98	0.69	-1.10	-1.27	0.08	-0.05	10.60	Gyro
1700.00	0.24	302.44	1699.98	1.02	-1.40	-1.72	0.13	-0.05	-27.38	Gyro
1800.00	0.13	263.65	1799.98	1.12	-1.69	-2.00	0.16	-0.11	-38.79	Gyro
1900.00	0.14	283.47	1899.98	1.13	-1.92	-2.18	0.05	0.01	19.82	Gyro

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<b>Company:</b> Chesapeake Appalachia LLC	<b>Date:</b> 11/16/2010	<b>Time:</b> 13:46:00	<b>Page:</b> 2
<b>Field:</b> Marshall Co. WV	<b>Co-ordinate(NE) Reference:</b>	Site: Ray Baker 6H, Grid North	
<b>Site:</b> Ray Baker 6H	<b>Vertical (TVD) Reference:</b>	SITE 1328.0	
<b>Well:</b> Well # Ray Baker 6H	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,133.00Azi)	
<b>Wellpath:</b> 6H	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

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
2000.00	0.33	306.36	1999.98	1.33	-2.28	-2.57	0.21	0.19	22.89	Gyro
2100.00	0.36	307.16	2099.98	1.69	-2.76	-3.17	0.03	0.03	0.80	Gyro
2200.00	0.19	319.41	2199.97	2.01	-3.12	-3.65	0.18	-0.17	12.25	Gyro
2300.00	0.19	241.68	2299.97	2.06	-3.37	-3.87	0.24	0.00	-77.73	Gyro
2400.00	0.16	303.28	2399.97	2.05	-3.63	-4.06	0.18	-0.03	61.60	Gyro
2500.00	0.11	216.68	2499.97	2.05	-3.81	-4.18	0.19	-0.05	-86.60	Gyro
2600.00	0.26	304.54	2599.97	2.11	-4.05	-4.40	0.28	0.15	87.86	Gyro
2700.00	0.27	15.89	2699.97	2.46	-4.17	-4.73	0.31	0.01	71.35	Gyro
2800.00	0.47	212.42	2799.97	2.34	-4.33	-4.76	0.73	0.20	-163.47	Gyro
2900.00	0.46	253.78	2899.97	1.88	-4.93	-4.89	0.33	-0.01	41.36	Gyro
3000.00	0.17	259.36	2999.97	1.74	-5.46	-5.19	0.29	-0.29	5.58	Gyro
3100.00	0.22	303.31	3099.97	1.82	-5.77	-5.46	0.15	0.05	43.95	Gyro
3200.00	0.22	307.62	3199.97	2.04	-6.08	-5.84	0.02	0.00	4.31	Gyro
3300.00	0.20	269.20	3299.97	2.16	-6.41	-6.16	0.14	-0.02	-38.42	Gyro
3400.00	0.21	348.91	3399.96	2.34	-6.62	-6.44	0.26	0.01	79.71	Gyro
3500.00	0.11	212.27	3499.96	2.44	-6.71	-6.57	0.30	-0.10	-136.64	Gyro
3600.00	0.11	122.89	3599.96	2.30	-6.68	-6.45	0.15	0.00	-89.38	Gyro
3700.00	0.28	102.71	3699.96	2.20	-6.36	-6.15	0.18	0.17	-20.18	Gyro
3800.00	0.10	66.03	3799.96	2.18	-6.04	-5.90	0.21	-0.18	-36.68	Gyro
3870.00	0.20	260.48	3869.96	2.18	-6.10	-5.95	0.43	0.14	-236.50	Gyro
3937.00	1.00	206.00	3936.96	1.64	-6.48	-5.85	1.34	1.19	-81.31	SS
3968.00	3.20	224.40	3967.94	0.78	-7.20	-5.80	7.33	7.10	59.35	SS
3999.00	4.60	218.00	3998.86	-0.82	-8.57	-5.71	4.72	4.52	-20.65	SS
4030.00	3.50	215.50	4029.79	-2.57	-9.89	-5.48	3.59	-3.55	-8.06	SS
4062.00	5.70	205.20	4061.68	-4.81	-11.13	-4.86	7.32	6.87	-32.19	SS
4094.00	8.20	210.90	4093.44	-8.20	-12.98	-3.90	8.09	7.81	17.81	SS
4220.00	15.60	222.10	4216.67	-28.51	-28.98	-1.75	6.13	5.87	8.89	SS
4347.00	18.90	225.00	4337.94	-55.74	-54.98	-2.20	2.68	2.60	2.28	SS
4474.00	19.80	219.00	4457.78	-87.00	-83.06	-1.41	1.72	0.71	-4.72	SS
4601.00	19.30	215.70	4577.46	-120.76	-108.85	2.75	0.95	-0.39	-2.60	SS
4729.00	19.60	223.10	4698.17	-153.62	-135.86	5.41	1.94	0.23	5.78	SS
4856.00	20.40	224.20	4817.51	-185.04	-165.85	4.90	0.70	0.63	0.87	SS
4983.00	19.50	219.10	4936.90	-217.36	-194.65	5.88	1.54	-0.71	-4.02	SS
5111.00	19.60	219.20	5057.52	-250.58	-221.69	8.76	0.08	0.08	0.08	SS
5236.00	20.80	219.70	5174.83	-283.90	-249.12	11.43	0.97	0.96	0.40	SS
5363.00	19.10	213.40	5294.22	-318.61	-274.97	16.19	2.16	-1.34	-4.96	SS
5490.00	20.10	219.10	5413.87	-352.89	-300.17	21.14	1.70	0.79	4.49	SS
5616.00	19.10	212.40	5532.58	-387.11	-324.88	26.41	1.95	-0.79	-5.32	SS
5743.00	18.50	216.60	5652.81	-420.83	-348.03	32.47	1.17	-0.47	3.31	SS
5870.00	21.90	221.80	5771.99	-454.67	-375.84	35.22	3.03	2.68	4.09	SS
5998.00	17.80	224.40	5892.36	-486.46	-405.45	35.24	3.28	-3.20	2.03	SS
6125.00	19.60	236.00	6012.70	-512.25	-436.70	29.97	3.25	1.42	9.13	SS
6252.00	19.30	244.50	6132.47	-533.20	-473.31	17.48	2.24	-0.24	6.69	SS
6379.00	21.10	232.60	6251.71	-556.13	-510.44	5.97	3.52	1.42	-9.37	SS
6506.00	22.60	219.50	6369.65	-588.87	-544.14	3.65	4.01	1.18	-10.31	SS
6696.00	20.10	220.00	6546.60	-642.06	-588.35	7.59	1.32	-1.32	0.26	SS
6728.00	19.80	221.30	6576.68	-650.34	-595.47	8.04	1.67	-0.94	4.06	Ryan MWD
6760.00	19.30	217.40	6606.83	-658.62	-602.26	8.71	4.37	-1.56	-12.19	Ryan MWD
6790.00	19.50	205.30	6635.14	-667.09	-607.41	10.72	13.39	0.67	-40.33	Ryan MWD
6822.00	21.50	192.70	6665.13	-677.64	-610.98	15.31	15.10	6.25	-39.37	Ryan MWD
6854.00	24.30	183.40	6694.61	-689.94	-612.66	22.46	14.27	8.75	-29.06	Ryan MWD
6886.00	26.40	174.20	6723.54	-703.60	-612.33	32.02	13.93	6.56	-28.75	Ryan MWD
6917.00	29.50	166.80	6750.93	-717.89	-609.89	43.55	14.99	10.00	-23.87	Ryan MWD
6949.00	33.50	162.30	6778.21	-733.99	-605.41	57.81	14.49	12.50	-14.06	Ryan MWD

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<b>Well:</b> Well # Ray Baker 6H	<b>Section (VS) Reference:</b>	Well (0.00N,0.00E,133.00Azi)	
<b>Wellpath:</b> 6H	<b>Survey Calculation Method:</b>	Minimum Curvature	<b>Db:</b> Sybase

**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
6980.00	37.30	159.20	6803.48	-750.92	-599.47	73.71	13.55	12.26	-10.00	Ryan MWD
7011.00	40.30	157.30	6827.64	-768.96	-592.26	91.27	10.41	9.68	-6.13	Ryan MWD
7043.00	42.10	155.90	6851.72	-788.30	-583.89	110.59	6.32	5.62	-4.37	Ryan MWD
7075.00	43.90	155.00	6875.12	-808.15	-574.82	130.76	5.94	5.62	-2.81	Ryan MWD
7106.00	45.70	154.00	6897.11	-827.86	-565.41	151.08	6.24	5.81	-3.23	Ryan MWD
7138.00	48.80	152.00	6918.83	-848.79	-554.74	173.16	10.72	9.69	-6.25	Ryan MWD
7170.00	51.10	150.00	6939.42	-870.21	-542.86	196.46	8.63	7.19	-6.25	Ryan MWD
7201.00	52.30	149.50	6958.64	-891.22	-530.60	219.75	4.07	3.87	-1.61	Ryan MWD
7233.00	54.10	148.80	6977.81	-913.22	-517.46	244.37	5.89	5.62	-2.19	Ryan MWD
7265.00	57.50	148.10	6995.79	-935.76	-503.61	269.87	10.78	10.62	-2.19	Ryan MWD
7297.00	60.20	146.90	7012.34	-958.86	-488.89	296.38	9.03	8.44	-3.75	Ryan MWD
7329.00	62.20	146.90	7027.76	-982.35	-473.58	323.60	6.25	6.25	0.00	Ryan MWD
7360.00	64.00	146.60	7041.78	-1005.47	-458.42	350.46	5.87	5.81	-0.97	Ryan MWD
7392.00	67.30	144.90	7054.97	-1029.56	-442.01	378.89	11.39	10.31	-5.31	Ryan MWD
7424.00	70.00	143.00	7066.62	-1053.65	-424.47	408.14	10.09	8.44	-5.94	Ryan MWD
7455.00	72.60	141.80	7076.56	-1076.91	-406.56	437.11	9.15	8.39	-3.87	Ryan MWD
7487.00	75.40	139.30	7085.38	-1100.65	-387.01	467.60	11.53	8.75	-7.81	Ryan MWD
7519.00	78.60	137.70	7092.58	-1124.00	-366.35	498.63	11.12	10.00	-5.00	Ryan MWD
7550.00	82.80	137.00	7097.59	-1146.49	-345.63	529.13	13.73	13.55	-2.26	Ryan MWD
7582.00	86.90	135.50	7100.46	-1169.51	-323.60	560.94	13.64	12.81	-4.69	Ryan MWD
7646.00	89.50	131.70	7102.47	-1213.61	-277.28	624.89	7.19	4.06	-5.94	Ryan MWD
7710.00	90.60	131.50	7102.42	-1256.10	-229.43	688.87	1.75	1.72	-0.31	Ryan MWD
7773.00	92.90	131.90	7100.49	-1297.99	-182.41	751.82	3.71	3.65	0.63	Ryan MWD
7836.00	93.80	132.60	7096.81	-1340.27	-135.86	814.70	1.81	1.43	1.11	Ryan MWD
7900.00	91.70	131.40	7093.74	-1383.04	-88.36	878.62	3.78	-3.28	-1.87	Ryan MWD
7964.00	92.30	131.60	7091.51	-1425.43	-40.45	942.55	0.99	0.94	0.31	Ryan MWD
8017.00	92.10	133.50	7089.47	-1461.24	-1.44	995.51	3.60	-0.38	3.58	Ryan MWD
8079.00	88.90	126.80	7088.93	-1501.19	45.92	1057.39	11.97	-5.16	-10.81	Ryan MWD
8142.00	89.30	127.40	7089.92	-1539.18	96.16	1120.05	1.14	0.63	0.95	Ryan MWD
8205.00	90.50	127.50	7090.03	-1577.49	146.17	1182.75	1.91	1.90	0.16	Ryan MWD
8263.00	91.20	127.10	7089.17	-1612.63	192.30	1240.46	1.39	1.21	-0.69	Ryan MWD
8331.00	91.80	127.60	7087.39	-1653.87	246.34	1308.10	1.15	0.88	0.74	Ryan MWD
8395.00	92.60	129.40	7084.93	-1693.68	296.39	1371.85	3.08	1.25	2.81	Ryan MWD
8459.00	91.70	129.50	7082.53	-1734.32	345.77	1435.69	1.41	-1.41	0.16	Ryan MWD
8522.00	91.00	130.20	7081.05	-1774.68	394.13	1498.57	1.57	-1.11	1.11	Ryan MWD
8586.00	90.40	131.60	7080.27	-1816.58	442.50	1562.52	2.38	-0.94	2.19	Ryan MWD
8650.00	90.00	132.60	7080.04	-1859.48	489.98	1626.51	1.68	-0.62	1.56	Ryan MWD
8712.00	90.00	134.90	7080.04	-1902.35	534.77	1688.50	3.71	0.00	3.71	Ryan MWD
8776.00	90.30	136.30	7079.88	-1948.08	579.54	1752.44	2.24	0.47	2.19	Ryan MWD
8840.00	90.70	135.90	7079.32	-1994.19	623.92	1816.34	0.88	0.62	-0.62	Ryan MWD
8903.00	90.90	136.50	7078.44	-2039.66	667.52	1879.24	1.00	0.32	0.95	Ryan MWD
8967.00	91.00	137.00	7077.38	-2086.27	711.36	1943.09	0.80	0.16	0.78	Ryan MWD
9030.00	91.50	136.60	7076.00	-2132.18	754.48	2005.94	1.02	0.79	-0.63	Ryan MWD
9093.00	91.40	136.30	7074.41	-2177.83	797.87	2068.80	0.50	-0.16	-0.48	Ryan MWD
9157.00	90.20	135.10	7073.51	-2223.63	842.57	2132.72	2.65	-1.87	-1.87	Ryan MWD
9221.00	89.20	133.90	7073.85	-2268.48	888.21	2196.70	2.44	-1.56	-1.87	Ryan MWD
9284.00	89.40	134.00	7074.62	-2312.20	933.56	2259.68	0.35	0.32	0.16	Ryan MWD
9346.00	90.40	134.20	7074.73	-2355.35	978.09	2321.67	1.64	1.61	0.32	Ryan MWD
9410.00	91.10	135.30	7073.89	-2400.40	1023.53	2385.63	2.04	1.09	1.72	Ryan MWD
9473.00	90.70	134.10	7072.90	-2444.71	1068.31	2448.60	2.01	-0.63	-1.90	Ryan MWD
9537.00	90.60	133.40	7072.17	-2488.96	1114.54	2512.59	1.10	-0.16	-1.09	Ryan MWD
9601.00	90.50	133.80	7071.56	-2533.09	1160.88	2576.58	0.64	-0.16	0.62	Ryan MWD
9664.00	90.60	133.40	7070.95	-2576.54	1206.50	2639.57	0.65	0.16	-0.63	Ryan MWD

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WV GEOLOGICAL SURVEY  
MORGANTOWN, WV





# Ryan Energy Technologies Survey Report



**Company:** Chesapeake Appalachia LLC  
**Field:** Marshall Co. WV  
**Site:** Ray Baker 6H  
**Well:** Well # Ray Baker 6H  
**Wellpath:** 6H

**Date:** 11/16/2010 **Time:** 13:46:00 **Page:** 4  
**Co-ordinate(NE) Reference:** Site: Ray Baker 6H, Grid North  
**Vertical (TVD) Reference:** SITE 1328.0  
**Section (VS) Reference:** Well (0.00N,0.00E,133.00Azi)  
**Survey Calculation Method:** Minimum Curvature **Db:** Sybase

**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
9728.00	90.20	133.40	7070.51	-2620.51	1253.00	2703.57	0.62	-0.62	0.00	Ryan MWD
9790.00	89.70	132.80	7070.56	-2662.87	1298.27	2765.57	1.26	-0.81	-0.97	Ryan MWD
9853.00	89.60	132.90	7070.95	-2705.72	1344.46	2828.57	0.22	-0.16	0.16	Ryan MWD
9914.00	90.00	133.60	7071.16	-2747.51	1388.89	2889.57	1.32	0.66	1.15	Ryan MWD
9977.00	90.20	133.80	7071.05	-2791.04	1434.43	2952.56	0.45	0.32	0.32	Ryan MWD
10041.00	90.20	134.30	7070.83	-2835.54	1480.43	3016.55	0.78	0.00	0.78	Ryan MWD
10100.00	90.30	133.60	7070.57	-2876.48	1522.91	3075.54	1.20	0.17	-1.19	Ryan MWD
10163.00	90.30	132.90	7070.24	-2919.65	1568.80	3138.54	1.11	0.00	-1.11	Ryan MWD
10226.00	89.80	131.40	7070.18	-2961.93	1615.50	3201.53	2.51	-0.79	-2.38	Ryan MWD
10290.00	89.60	130.20	7070.52	-3003.74	1663.95	3265.48	1.90	-0.31	-1.87	Ryan MWD
10353.00	89.40	131.20	7071.07	-3044.82	1711.71	3328.43	1.62	-0.32	1.59	Ryan MWD
10416.00	88.60	131.70	7072.17	-3086.52	1758.92	3391.40	1.50	-1.27	0.79	Ryan MWD
10480.00	88.00	134.00	7074.07	-3130.02	1805.82	3455.36	3.71	-0.94	3.59	Ryan MWD
10544.00	89.20	134.90	7075.63	-3174.83	1851.49	3519.32	2.34	1.87	1.41	Ryan MWD
10607.00	89.50	133.70	7076.35	-3218.82	1896.57	3582.30	1.96	0.48	-1.90	Ryan MWD
10671.00	89.80	133.50	7076.74	-3262.96	1942.92	3646.29	0.56	0.47	-0.31	Ryan MWD
10735.00	90.10	133.80	7076.79	-3307.13	1989.23	3710.29	0.66	0.47	0.47	Ryan MWD
10798.00	90.30	133.60	7076.57	-3350.66	2034.78	3773.29	0.45	0.32	-0.32	Ryan MWD
10862.00	90.20	132.30	7076.29	-3394.27	2081.62	3837.28	2.04	-0.16	-2.03	Ryan MWD
10925.00	90.00	131.80	7076.18	-3436.46	2128.40	3900.27	0.85	-0.32	-0.79	Ryan MWD
10989.00	89.60	132.30	7076.41	-3479.33	2175.92	3964.26	1.00	-0.62	0.78	Ryan MWD
11053.00	89.70	134.10	7076.80	-3523.14	2222.57	4028.26	2.82	0.16	2.81	Ryan MWD
11115.00	90.00	135.20	7076.96	-3566.71	2266.68	4090.23	1.84	0.48	1.77	Ryan MWD
11179.00	90.30	135.50	7076.79	-3612.24	2311.66	4154.18	0.66	0.47	0.47	Ryan MWD
11242.00	90.50	134.90	7076.35	-3656.94	2356.05	4217.13	1.00	0.32	-0.95	Ryan MWD
11306.00	91.30	134.40	7075.35	-3701.91	2401.57	4281.10	1.47	1.25	-0.78	Ryan MWD
11370.00	91.50	134.90	7073.78	-3746.87	2447.09	4345.05	0.84	0.31	0.78	Ryan MWD
11433.00	91.60	134.90	7072.08	-3791.33	2491.70	4407.99	0.16	0.16	0.00	Ryan MWD
11496.00	91.90	134.10	7070.16	-3835.46	2536.61	4470.94	1.36	0.48	-1.27	Ryan MWD
11559.00	92.00	134.10	7068.01	-3879.28	2581.83	4533.89	0.16	0.16	0.00	Ryan MWD
11623.00	90.20	134.90	7066.78	-3924.13	2627.47	4597.86	3.08	-2.81	1.25	Ryan MWD
11686.00	90.10	134.20	7066.62	-3968.32	2672.36	4660.83	1.12	-0.16	-1.11	Ryan MWD
11774.00	90.80	133.90	7065.93	-4029.51	2735.61	4748.81	0.87	0.80	-0.34	Ryan MWD
11830.00	90.80	133.90	7065.15	-4068.33	2775.95	4804.80	0.00	0.00	0.00	PROJECTED to TD

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