

10302900



Where energy meets innovation.

## **EQT Production - Marcellus**

Wetzel County, WV  
Wetzel County 513873  
Well #513873

Main Wellbore

Survey: 513873 MWD (Curve and Lateral)

## **Standard Survey Report**

12 November, 2013



Where energy meets innovation.

10/31/2014

<b>Database:</b>	EQT DB	<b>Local Co-ordinate Reference:</b>	Site Wetzel County 513873
<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1468.0usft
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1468.0usft
<b>Site:</b>	Wetzel County 513873	<b>North Reference:</b>	Grid
<b>Well:</b>	Well #513873	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Main Wellbore		
<b>Design:</b>	As Drilled Surveys		

<b>Project</b>	Wetzel County, WV		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	West Virginia North 4701		Using geodetic scale factor

<b>Site</b>	Wetzel County 513873				
<b>Site Position:</b>		<b>Northing:</b>	376,095.00 usft	<b>Latitude:</b>	39.53
<b>From:</b>	Map	<b>Easting:</b>	1,694,665.30 usft	<b>Longitude:</b>	-80.58
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.69 °

<b>Well</b>	Well #513873					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	376,095.00 usft	<b>Latitude:</b>	39° 31' 39.182 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,694,665.30 usft	<b>Longitude:</b>	80° 34' 56.944 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,452.0 usft

<b>Wellbore</b>	Main Wellbore				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010_14	10/24/2013	-8.64	67.03	52,468

<b>Design</b>	As Drilled Surveys				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	120.17	

<b>Survey Program</b>	Date 11/12/2013			
<b>From (')</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	5,500.0	513873 Final Gyrodata Gyros (Main Wellbor	GYD_DP_MS	Gyrodata gyro-compassing and drop
0.00	12,430.0	513873 MWD (Curve and Lateral) (Main We	MWD	MWD - Standard

<b>Survey</b>	Gyro Tie in MD=5500'										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>Subsea Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
5,500.0	0.61	294.46	5,495.0	4,027.0	81.3	-33.4	-69.7	0.00	0.00	0.00	
5,561.0	0.50	258.20	5,556.0	4,088.0	81.4	-34.0	-70.3	0.59	-0.18	-59.44	
5,624.0	0.90	67.60	5,619.0	4,151.0	81.5	-33.8	-70.2	2.21	0.63	268.89	
5,655.0	4.30	78.20	5,650.0	4,182.0	81.9	-32.4	-69.1	11.03	10.97	34.19	
5,687.0	7.80	77.30	5,681.8	4,213.8	82.6	-29.1	-66.7	10.94	10.94	-2.81	
5,718.0	10.10	70.00	5,712.4	4,244.4	84.0	-24.5	-63.4	8.26	7.42	-23.55	
5,750.0	12.40	67.60	5,743.8	4,275.8	86.2	-18.7	-59.5	7.33	7.19	-7.50	

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<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1468.0usft
<b>Site:</b>	Wetzel County 513873	<b>North Reference:</b>	Grid
<b>Well:</b>	Well #513873	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Main Wellbore		
<b>Design:</b>	As Drilled Surveys		

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,781.0	15.00	67.60	5,773.9	4,305.9	89.0	-11.9	-55.0	8.39	8.39	0.00	
5,813.0	18.40	71.80	5,804.5	4,336.5	92.2	-3.3	-49.2	11.27	10.63	13.13	
5,844.0	21.80	75.20	5,833.7	4,365.7	95.2	6.9	-41.8	11.59	10.97	10.97	
5,876.0	25.20	76.40	5,863.0	4,395.0	98.3	19.3	-32.7	10.73	10.63	3.75	
5,908.0	27.90	76.80	5,891.6	4,423.6	101.6	33.2	-22.3	8.46	8.44	1.25	
5,939.0	30.60	75.90	5,918.7	4,450.7	105.2	47.9	-11.4	8.82	8.71	-2.90	
5,971.0	33.20	75.10	5,945.8	4,477.8	109.4	64.3	0.6	8.23	8.13	-2.50	
6,002.0	35.90	75.20	5,971.4	4,503.4	114.0	81.3	13.0	8.71	8.71	0.32	
6,065.0	43.00	75.20	6,020.0	4,552.0	124.2	120.0	41.3	11.27	11.27	0.00	
6,128.0	42.30	74.30	6,066.3	4,598.3	135.4	161.2	71.3	1.47	-1.11	-1.43	
6,192.0	39.90	72.30	6,114.5	4,646.5	147.5	201.5	100.1	4.28	-3.75	-3.13	
6,255.0	38.50	73.00	6,163.4	4,695.4	159.3	239.5	127.0	2.33	-2.22	1.11	
6,318.0	39.70	75.90	6,212.3	4,744.3	170.0	277.7	154.7	3.47	1.90	4.60	
6,381.0	39.80	76.40	6,260.7	4,792.7	179.6	316.9	183.7	0.53	0.16	0.79	
6,443.0	39.90	76.90	6,308.3	4,840.3	188.8	355.5	212.5	0.54	0.16	0.81	
6,506.0	39.30	76.60	6,356.8	4,888.8	198.0	394.6	241.7	1.00	-0.95	-0.48	
6,569.0	42.80	77.30	6,404.3	4,936.3	207.3	434.9	271.8	5.60	5.56	1.11	
6,632.0	41.90	75.90	6,450.9	4,982.9	217.2	476.2	302.6	2.07	-1.43	-2.22	
6,695.0	40.60	75.40	6,498.3	5,030.3	227.5	516.4	332.2	2.13	-2.06	-0.79	
6,758.0	41.00	75.40	6,546.0	5,078.0	237.8	556.3	361.4	0.63	0.63	0.00	
6,821.0	41.10	74.50	6,593.5	5,125.5	248.6	596.2	390.5	0.95	0.16	-1.43	
6,884.0	42.80	76.10	6,640.3	5,172.3	259.3	636.9	420.4	3.19	2.70	2.54	
6,947.0	42.10	76.20	6,686.8	5,218.8	269.4	678.2	451.0	1.12	-1.11	0.16	
7,010.0	43.00	76.10	6,733.2	5,265.2	279.6	719.6	481.6	1.43	1.43	-0.16	
7,072.0	43.70	76.20	6,778.3	5,310.3	289.8	760.9	512.2	1.13	1.13	0.16	
7,135.0	44.70	76.10	6,823.5	5,355.5	300.3	803.6	543.8	1.59	1.59	-0.16	
7,199.0	42.50	75.20	6,869.8	5,401.8	311.3	846.3	575.3	3.57	-3.44	-1.41	
7,262.0	40.60	74.90	6,917.0	5,449.0	322.0	886.7	604.8	3.03	-3.02	-0.48	
7,325.0	39.60	73.40	6,965.1	5,497.1	333.1	925.7	632.9	2.21	-1.59	-2.38	
7,388.0	39.10	74.30	7,013.9	5,545.9	344.2	964.1	660.5	1.20	-0.79	1.43	
7,451.0	37.50	74.90	7,063.3	5,595.3	354.6	1,001.7	687.9	2.61	-2.54	0.95	
7,514.0	38.90	77.30	7,112.8	5,644.8	363.9	1,039.5	715.9	3.24	2.22	3.81	
7,577.0	41.80	77.10	7,160.8	5,692.8	373.0	1,079.3	745.7	4.61	4.60	-0.32	
7,640.0	42.90	77.40	7,207.4	5,739.4	382.3	1,120.7	776.8	1.78	1.75	0.48	
7,703.0	41.50	76.30	7,254.0	5,786.1	392.0	1,161.9	807.6	2.51	-2.22	-1.75	
7,766.0	42.10	75.80	7,301.0	5,833.0	402.1	1,202.7	837.7	1.09	0.95	-0.79	
7,798.0	43.60	75.50	7,324.5	5,856.5	407.5	1,223.8	853.2	4.73	4.69	-0.94	
7,829.0	43.40	78.60	7,347.0	5,879.0	412.3	1,244.5	868.8	6.91	-0.65	10.00	
7,861.0	43.30	83.50	7,370.2	5,902.2	415.7	1,266.2	885.8	10.51	-0.31	15.31	
7,892.0	43.80	90.20	7,392.7	5,924.7	416.9	1,287.5	903.7	14.97	1.61	21.61	
7,924.0	45.30	92.70	7,415.5	5,947.5	416.3	1,310.0	923.4	7.21	4.69	7.81	
7,955.0	46.40	93.80	7,437.1	5,969.1	415.0	1,332.2	943.2	4.37	3.55	3.55	
7,987.0	46.70	95.60	7,459.1	5,991.1	413.1	1,355.3	964.2	4.19	0.94	5.63	

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Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,019.0	48.90	99.00	7,480.6	6,012.6	410.1	1,378.8	986.0	10.45	6.88	10.63	
8,050.0	51.80	102.60	7,500.4	6,032.4	405.6	1,402.3	1,008.5	12.94	9.35	11.61	
8,082.0	54.50	105.00	7,519.6	6,051.6	399.5	1,427.1	1,033.1	10.35	8.44	7.50	
8,113.0	56.80	106.50	7,537.1	6,069.1	392.5	1,451.8	1,057.9	8.43	7.42	4.84	
8,145.0	59.10	108.40	7,554.1	6,086.1	384.4	1,477.6	1,084.3	8.77	7.19	5.94	
8,176.0	61.60	110.30	7,569.4	6,101.4	375.5	1,503.0	1,110.8	9.66	8.06	6.13	
8,208.0	63.20	111.50	7,584.2	6,116.2	365.3	1,529.5	1,138.8	6.00	5.00	3.75	
8,239.0	66.40	114.50	7,597.4	6,129.4	354.4	1,555.3	1,166.6	13.53	10.32	9.68	
8,271.0	69.50	118.40	7,609.4	6,141.4	341.2	1,581.9	1,196.2	14.88	9.69	12.19	
8,302.0	72.90	121.80	7,619.4	6,151.4	326.4	1,607.2	1,225.5	15.10	10.97	10.97	
8,334.0	75.90	124.70	7,628.0	6,160.0	309.5	1,633.0	1,256.3	12.81	9.38	9.06	
8,365.0	78.30	127.50	7,635.0	6,167.0	291.7	1,657.4	1,286.3	11.72	7.74	9.03	
8,397.0	79.80	129.70	7,641.0	6,173.0	272.1	1,682.0	1,317.4	8.22	4.69	6.88	
8,428.0	81.20	131.50	7,646.2	6,178.2	252.2	1,705.2	1,347.5	7.29	4.52	5.81	
8,460.0	83.20	133.10	7,650.5	6,182.5	230.9	1,728.6	1,378.5	7.97	6.25	5.00	
8,491.0	83.90	134.70	7,654.0	6,186.0	209.6	1,750.8	1,408.4	5.60	2.26	5.16	
8,523.0	86.20	135.50	7,656.7	6,188.7	187.0	1,773.3	1,439.2	7.61	7.19	2.50	
<b>513873 Plat LP3</b>											
8,524.1	86.21	135.52	7,656.8	6,188.8	186.2	1,774.1	1,440.3	1.88	0.78	1.72	
8,587.0	86.70	136.60	7,660.7	6,192.7	141.0	1,817.7	1,500.6	1.88	0.78	1.72	
8,650.0	87.70	136.20	7,663.8	6,195.8	95.4	1,861.1	1,561.1	1.71	1.59	-0.63	
8,713.0	89.10	135.00	7,665.5	6,197.5	50.4	1,905.1	1,621.8	2.93	2.22	-1.90	
8,776.0	90.30	141.30	7,665.9	6,197.9	3.5	1,947.1	1,681.6	10.18	1.90	10.00	
8,839.0	90.70	144.10	7,665.3	6,197.3	-46.6	1,985.3	1,739.8	4.49	0.63	4.44	
8,901.0	89.70	142.10	7,665.1	6,197.1	-96.2	2,022.5	1,796.9	3.61	-1.61	-3.23	
8,964.0	87.90	139.50	7,666.4	6,198.4	-145.0	2,062.3	1,855.9	5.02	-2.86	-4.13	
9,027.0	87.70	136.60	7,668.8	6,200.9	-191.8	2,104.4	1,915.8	4.61	-0.32	-4.60	
9,090.0	87.50	134.70	7,671.5	6,203.5	-236.8	2,148.4	1,976.4	3.03	-0.32	-3.02	
9,153.0	87.60	130.70	7,674.2	6,206.2	-279.5	2,194.6	2,037.9	6.35	0.16	-6.35	
9,216.0	89.70	131.50	7,675.7	6,207.7	-320.9	2,242.1	2,099.7	3.57	3.33	1.27	
9,279.0	91.30	130.70	7,675.1	6,207.1	-362.3	2,289.6	2,161.5	2.84	2.54	-1.27	
9,342.0	91.50	129.80	7,673.6	6,205.6	-403.0	2,337.6	2,223.6	1.46	0.32	-1.43	
9,405.0	90.40	128.00	7,672.5	6,204.5	-442.5	2,386.7	2,285.8	3.35	-1.75	-2.86	
9,468.0	89.30	124.30	7,672.7	6,204.7	-479.7	2,437.5	2,348.5	6.13	-1.75	-5.87	
9,531.0	89.10	123.50	7,673.6	6,205.6	-514.8	2,489.8	2,411.3	1.31	-0.32	-1.27	
9,594.0	92.40	126.00	7,672.8	6,204.8	-550.7	2,541.6	2,474.1	6.57	5.24	3.97	
9,657.0	93.30	127.70	7,669.6	6,201.6	-588.5	2,591.9	2,536.6	3.05	1.43	2.70	
9,720.0	93.00	128.30	7,666.2	6,198.2	-627.2	2,641.5	2,598.9	1.06	-0.48	0.95	
9,783.0	91.30	129.50	7,663.8	6,195.8	-666.7	2,690.5	2,661.1	3.30	-2.70	1.90	
9,847.0	91.10	131.30	7,662.5	6,194.5	-708.2	2,739.2	2,724.1	2.83	-0.31	2.81	
9,909.0	90.80	134.40	7,661.4	6,193.4	-750.3	2,784.6	2,784.6	5.02	-0.48	5.00	
9,972.0	90.70	135.70	7,660.6	6,192.6	-794.9	2,829.1	2,845.4	2.07	-0.16	2.06	



103.02900

# Phoenix Technologies, Inc.

## Survey Report



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<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1468 Dush
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1468 Dush
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Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,035.0	91.50	137.50	7,659.4	6,191.4	-840.7	2,872.4	2,905.9	3.13	1.27	2.86	
10,098.0	89.70	138.10	7,658.7	6,190.7	-887.3	2,914.7	2,965.9	3.01	-2.86	0.95	
10,161.0	89.40	138.70	7,659.2	6,191.2	-934.5	2,956.6	3,025.7	1.06	-0.48	0.95	
10,224.0	88.10	139.00	7,660.6	6,192.6	-981.9	2,998.0	3,085.4	2.12	-2.06	0.48	
10,287.0	88.40	138.20	7,662.5	6,194.5	-1,029.1	3,039.6	3,145.1	1.36	0.48	-1.27	
10,350.0	88.40	138.30	7,664.3	6,196.3	-1,076.1	3,081.6	3,205.0	0.16	0.00	0.16	
10,413.0	87.90	136.60	7,666.3	6,198.3	-1,122.5	3,124.2	3,265.1	2.81	-0.79	-2.70	
10,476.0	88.00	137.00	7,668.6	6,200.6	-1,168.4	3,167.3	3,325.4	0.65	0.16	0.63	
10,539.0	88.00	137.20	7,670.8	6,202.8	-1,214.5	3,210.1	3,385.7	0.32	0.00	0.32	
10,602.0	87.90	137.70	7,673.0	6,205.0	-1,260.9	3,252.7	3,445.8	0.81	-0.16	0.79	
10,665.0	89.20	138.20	7,674.6	6,206.6	-1,307.6	3,294.9	3,505.8	2.21	2.06	0.79	
10,728.0	89.40	138.60	7,675.4	6,207.4	-1,354.8	3,336.7	3,565.6	0.71	0.32	0.63	
10,791.0	89.00	138.00	7,676.3	6,208.3	-1,401.8	3,378.6	3,625.5	1.14	-0.63	-0.95	
10,854.0	91.20	139.90	7,676.2	6,208.2	-1,449.3	3,420.0	3,685.1	4.61	3.49	3.02	
10,916.0	92.60	140.10	7,674.1	6,206.1	-1,496.8	3,459.8	3,743.4	2.28	2.26	0.32	
10,980.0	92.80	139.50	7,671.1	6,203.1	-1,545.6	3,501.1	3,803.6	0.99	0.31	-0.94	
11,043.0	89.30	138.70	7,669.9	6,201.9	-1,593.2	3,542.3	3,863.2	5.70	-5.56	-1.27	
11,106.0	88.00	137.80	7,671.4	6,203.4	-1,640.2	3,584.2	3,923.0	2.51	-2.06	-1.43	
11,169.0	89.20	137.70	7,673.0	6,205.0	-1,686.8	3,626.6	3,983.1	1.91	1.90	-0.16	
11,232.0	89.80	137.90	7,673.5	6,205.5	-1,733.5	3,668.9	4,043.1	1.00	0.95	0.32	
11,295.0	89.70	138.30	7,673.8	6,205.8	-1,780.4	3,711.0	4,103.0	0.65	-0.16	0.63	
11,358.0	89.70	136.50	7,674.1	6,206.1	-1,826.7	3,753.6	4,163.2	2.86	0.00	-2.86	
11,421.0	89.80	135.80	7,674.4	6,206.4	-1,872.2	3,797.3	4,223.8	1.12	0.16	-1.11	
11,484.0	89.30	135.30	7,674.9	6,206.9	-1,917.1	3,841.4	4,284.5	1.12	-0.79	-0.79	
11,547.0	90.30	136.10	7,675.1	6,207.1	-1,962.2	3,885.4	4,345.2	2.03	1.59	1.27	
11,610.0	90.70	137.40	7,674.5	6,206.6	-2,008.1	3,928.5	4,405.6	2.16	0.63	2.06	
11,673.0	90.90	137.90	7,673.7	6,205.7	-2,054.7	3,971.0	4,465.7	0.85	0.32	0.79	
11,736.0	90.60	138.60	7,672.8	6,204.8	-2,101.7	4,012.9	4,525.6	1.21	-0.48	1.11	
11,799.0	90.70	138.70	7,672.1	6,204.1	-2,148.9	4,054.5	4,585.3	0.22	0.16	0.16	
11,862.0	89.90	139.20	7,671.8	6,203.8	-2,196.5	4,095.9	4,644.9	1.50	-1.27	0.79	
11,926.0	90.50	138.40	7,671.6	6,203.6	-2,244.6	4,138.1	4,705.6	1.56	0.94	-1.25	
11,989.0	90.70	137.20	7,670.9	6,202.9	-2,291.3	4,180.4	4,765.6	1.93	0.32	-1.90	
12,052.0	90.90	137.50	7,670.0	6,202.0	-2,337.6	4,223.1	4,825.8	0.57	0.32	0.48	
12,114.0	90.70	138.10	7,669.2	6,201.2	-2,383.5	4,264.7	4,884.9	1.02	-0.32	0.97	
12,177.0	90.80	138.10	7,668.3	6,200.4	-2,430.4	4,306.8	4,944.8	0.16	0.16	0.00	
12,240.0	90.80	138.40	7,667.5	6,199.5	-2,477.4	4,348.7	5,004.7	0.48	0.00	0.48	
12,303.0	90.70	138.50	7,666.6	6,198.6	-2,524.6	4,390.5	5,064.5	0.22	-0.16	0.16	
12,366.0	90.40	139.20	7,666.0	6,198.0	-2,572.0	4,432.0	5,124.2	1.21	-0.48	1.11	
<b>Final Survey MD=12377'</b>											
12,377.0	90.20	138.90	7,666.0	6,198.0	-2,580.3	4,439.2	5,134.6	3.28	-1.82	-2.73	
<b>513873 Plat TDJ</b>											
12,424.6	90.20	138.90	7,665.8	6,197.8	-2,616.2	4,470.5	5,179.7	0.00	0.00	0.00	
<b>Projection to Bit MD=12430'</b>											

<b>Database:</b>	EQT DB	<b>Local Co-ordinate Reference:</b>	Site Wetzel County 513873
<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1468.0usft
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1468.0usft
<b>Site:</b>	Wetzel County 513873	<b>North Reference:</b>	Grid
<b>Well:</b>	Well #513873	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Main Wellbore		
<b>Design:</b>	As Drilled Surveys		

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,430.0	90.20	138.90	7,665.8	6,197.8	-2,620.2	4,474.0	5,184.8	0.00	0.00	0.00

Measured Depth (')	Vertical Depth (')	Local Coordinates		Comment
		+N/-S (')	+E/-W (')	
5,500.0	5,495.0	81.3	-33.4	Gyro Tie In MD=5500'
12,377.0	7,666.0	-2,580.3	4,439.2	Final Survey MD=12377'
12,430.0	7,665.8	-2,620.2	4,474.0	Projection to Bit MD=12430'

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



# EQT Production - Marcellus

103-02900

Project: Wetzel County, WV  
Site: Wetzel County 513873  
Well: Well #513873  
Wellbore: Main Wellbore  
Design: As Drilled Surveys

