



## **EQT Production - Marcellus**

Wetzel County, WV  
Wetzel County 513930  
Well #513930

Main Wellbore

Design: As Drilled Surveys

## **Standard Survey Report**

28 January, 2014



Phoenix Technology Services  
Survey Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site Wetzell County 513930
<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1489.0usft
<b>Project:</b>	Wetzell County, WV	<b>MD Reference:</b>	KB @ 1489.0usft
<b>Site:</b>	Wetzell County 513930	<b>North Reference:</b>	Grid
<b>Well:</b>	Well #513930	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Main Wellbore		
<b>Design:</b>	As Drilled Surveys		

**Project** Wetzell 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

**Site** Wetzell County 513930

<b>Site Position:</b>		<b>Northing:</b>	385,084.00 usft	<b>Latitude:</b>	39.55
<b>From:</b>	Map	<b>Easting:</b>	1,688,199.00 usft	<b>Longitude:</b>	-80.61
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.71 °

**Well** Well #513930

<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	385,084.00 usft	<b>Latitude:</b>	39° 33' 7.244 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,688,199.00 usft	<b>Longitude:</b>	80° 36' 20.876 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	1,473.0 usft

**Wellbore** Main Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	1/14/2014	-8.64	67.03	52,456

**Design** As Drilled Surveys

**Audit Notes:**

<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	149.04

**Survey Program** Date 1/28/2014

From (')	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	5,798.0	513930 VES Gyro (Main Wellbore)	Gyroflex Multishot	North sensing gyrocompassing m/s
0.00	10,647.0	513930 MWD (Main Wellbore)	MWD	MWD - Standard

**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)
0.0	0.00	0.00	0.0	-1,489.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.21	308.36	100.0	-1,389.0	0.1	-0.1	-0.2	0.21	0.21	0.00
200.0	0.10	304.20	200.0	-1,289.0	0.3	-0.4	-0.4	0.11	-0.11	-4.16
300.0	0.17	304.08	300.0	-1,189.0	0.4	-0.6	-0.6	0.07	0.07	-0.12
400.0	0.03	302.08	400.0	-1,089.0	0.5	-0.7	-0.8	0.14	-0.14	-2.00
500.0	0.21	310.98	500.0	-989.0	0.6	-0.9	-1.0	0.18	0.18	8.90
600.0	0.18	314.09	600.0	-889.0	0.9	-1.1	-1.3	0.03	-0.03	3.11
700.0	0.26	310.69	700.0	-789.0	1.1	-1.4	-1.7	0.08	0.08	-3.40



Phoenix Technology Services  
Survey Report



<b>Database:</b>	EDM 5000.1 Single User Doc	<b>Local Co-ordinate Reference:</b>	Sta Wetzel County 513930
<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1489.0usft
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1489.0usft
<b>Site:</b>	Wetzel County 513930	<b>North Reference:</b>	GND
<b>Well:</b>	Well 8513936	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Main Wellbore		
<b>Design:</b>	As Directed 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)
800.0	0.13	310.79	800.0	-689.0	1.3	-1.7	-2.0	0.13	-0.13	0.10
900.0	0.30	308.15	900.0	-589.0	1.6	-1.9	-2.4	0.17	0.17	-2.64
1,000.0	0.30	282.90	1,000.0	-489.0	1.8	-2.4	-2.8	0.13	0.00	-25.25
1,100.0	0.40	282.80	1,100.0	-389.0	1.9	-3.0	-3.2	0.10	0.10	-0.10
1,200.0	0.45	277.82	1,200.0	-289.0	2.1	-3.7	-3.7	0.06	0.05	-4.98
1,300.0	0.50	285.48	1,300.0	-189.0	2.2	-4.5	-4.3	0.08	0.05	7.66
1,400.0	0.48	288.03	1,400.0	-89.0	2.5	-5.4	-4.9	0.03	-0.02	2.55
1,500.0	0.64	290.03	1,500.0	11.0	2.8	-6.3	-5.6	0.16	0.16	2.00
1,600.0	0.50	303.40	1,600.0	111.0	3.2	-7.2	-6.5	0.19	-0.14	13.37
1,700.0	0.65	304.06	1,700.0	211.0	3.8	-8.0	-7.4	0.15	0.15	0.66
1,800.0	0.66	315.80	1,800.0	311.0	4.5	-8.9	-8.5	0.13	0.01	11.74
1,900.0	0.56	322.72	1,900.0	411.0	5.3	-9.6	-9.5	0.12	-0.10	6.92
2,000.0	0.53	321.76	2,000.0	511.0	6.1	-10.2	-10.4	0.03	-0.03	-0.96
2,100.0	0.24	324.63	2,099.9	610.9	6.6	-10.6	-11.1	0.29	-0.29	2.87
2,200.0	0.43	345.56	2,199.9	710.9	7.2	-10.8	-11.7	0.22	0.19	20.93
2,300.0	0.33	352.49	2,299.9	810.9	7.8	-10.9	-12.3	0.11	-0.10	6.93
2,400.0	0.40	354.25	2,399.9	910.9	8.4	-11.0	-12.9	0.07	0.07	1.76
2,500.0	0.46	4.76	2,499.9	1,010.9	9.2	-11.0	-13.5	0.10	0.06	10.51
2,600.0	0.43	11.59	2,599.9	1,110.9	9.9	-10.9	-14.1	0.06	-0.03	6.83
2,700.0	0.59	18.46	2,699.9	1,210.9	10.8	-10.6	-14.7	0.17	0.16	6.87
2,800.0	0.68	1.48	2,799.9	1,310.9	11.9	-10.5	-15.6	0.21	0.09	-16.98
2,900.0	0.63	6.72	2,899.9	1,410.9	13.0	-10.4	-16.5	0.08	-0.05	5.24
3,000.0	0.46	355.23	2,999.9	1,510.9	14.0	-10.3	-17.3	0.20	-0.17	-11.49
3,100.0	0.68	355.31	3,099.9	1,610.9	15.0	-10.4	-18.2	0.22	0.22	0.08
3,200.0	0.74	341.22	3,199.9	1,710.9	16.2	-10.7	-19.4	0.16	0.06	-14.09
3,300.0	0.47	332.49	3,299.9	1,810.9	17.1	-11.1	-20.4	0.28	-0.27	-8.73
3,400.0	0.59	323.72	3,399.9	1,910.9	17.9	-11.6	-21.3	0.14	0.12	-8.77
3,500.0	0.41	319.12	3,499.9	2,010.9	18.6	-12.1	-22.2	0.18	-0.18	-4.60
3,600.0	0.89	323.61	3,599.9	2,110.9	19.5	-12.8	-23.3	0.48	0.48	4.49
3,700.0	0.89	295.56	3,699.9	2,210.9	20.5	-14.0	-24.7	0.43	0.00	-28.05
3,800.0	0.85	317.70	3,799.9	2,310.9	21.3	-15.2	-26.1	0.34	-0.04	22.14
3,900.0	0.88	357.77	3,899.8	2,410.8	22.7	-15.7	-27.5	0.59	0.03	40.07
4,000.0	0.52	350.67	3,999.8	2,510.8	23.9	-15.8	-28.6	0.37	-0.36	-7.10
4,100.0	0.39	327.97	4,099.8	2,610.8	24.6	-16.1	-29.4	0.22	-0.13	-22.70
4,200.0	0.79	318.62	4,199.8	2,710.8	25.4	-16.7	-30.4	0.41	0.40	-9.35
4,300.0	0.94	332.49	4,299.8	2,810.8	26.7	-17.5	-31.9	0.26	0.15	13.87
4,400.0	0.95	333.49	4,399.8	2,910.8	28.1	-18.3	-33.5	0.02	0.01	1.00
4,500.0	0.76	310.94	4,499.8	3,010.8	29.3	-19.2	-35.0	0.38	-0.19	-22.55
4,600.0	0.62	351.55	4,599.8	3,110.8	30.3	-19.7	-36.1	0.50	-0.14	40.61
4,700.0	0.36	35.73	4,699.8	3,210.8	31.1	-19.6	-36.7	0.44	-0.25	44.18
4,800.0	0.37	39.81	4,799.8	3,310.8	31.6	-19.2	-37.0	0.03	0.01	4.08
4,900.0	0.34	49.65	4,899.8	3,410.8	32.0	-18.8	-37.1	0.07	-0.03	9.84



Phoenix Technology Services  
Survey Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site Wetzel County 513930
<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1489.0usft
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1469.0usft
<b>Site:</b>	Wetzel County 513930	<b>North Reference:</b>	Grid
<b>Well:</b>	Well #513930	<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)
5,000.0	0.60	50.97	4,999.8	3,510.8	32.5	-18.2	-37.2	0.26	0.26	1.32
5,100.0	0.58	51.05	5,099.8	3,610.8	33.2	-17.4	-37.4	0.02	-0.02	0.08
5,200.0	0.66	84.54	5,199.8	3,710.8	33.6	-16.4	-37.2	0.37	0.08	33.49
5,300.0	0.64	79.37	5,299.8	3,810.8	33.7	-15.1	-36.7	0.19	0.18	-5.17
5,400.0	0.99	124.35	5,399.7	3,910.7	33.4	-13.7	-35.7	0.71	0.15	44.98
5,500.0	0.86	115.40	5,499.7	4,010.7	32.6	-12.3	-34.3	0.19	-0.13	-8.95
5,600.0	1.02	125.90	5,599.7	4,110.7	31.7	-10.9	-32.8	0.23	0.16	10.50
5,700.0	1.11	136.67	5,699.7	4,210.7	30.5	-9.5	-31.1	0.22	0.09	10.77
<b>Gyro Tie In MD=5798'</b>										
5,798.0	1.08	141.13	5,797.7	4,308.7	29.1	-8.3	-29.2	0.09	-0.03	4.55
5,826.0	0.70	154.30	5,825.7	4,336.7	28.7	-8.0	-28.8	1.53	-1.36	47.04
5,889.0	0.60	150.50	5,888.7	4,399.7	28.1	-7.7	-28.1	0.17	-0.16	-6.03
5,920.0	0.60	155.40	5,919.7	4,430.7	27.8	-7.6	-27.7	0.17	0.00	15.81
5,952.0	0.50	141.70	5,951.7	4,462.7	27.6	-7.4	-27.4	0.51	-0.31	-42.81
5,983.0	0.10	16.10	5,982.7	4,493.7	27.5	-7.3	-27.3	1.82	-1.29	-405.16
6,015.0	3.40	33.30	6,014.7	4,525.7	28.3	-6.8	-27.8	10.33	10.31	53.75
6,047.0	8.10	32.80	6,046.5	4,557.5	31.0	-5.0	-29.2	14.69	14.69	-1.56
6,078.0	11.30	32.40	6,077.0	4,588.0	35.4	-2.2	-31.5	10.32	10.32	-1.29
6,110.0	12.20	36.00	6,108.4	4,619.4	40.8	1.4	-34.2	3.63	2.81	11.25
6,141.0	14.30	34.80	6,138.5	4,649.5	46.6	5.6	-37.1	6.83	6.77	-3.87
6,172.0	17.10	34.00	6,168.4	4,679.4	53.5	10.3	-40.6	9.06	9.03	-2.58
6,204.0	20.00	33.60	6,198.7	4,709.7	61.9	15.9	-44.9	9.07	9.06	-1.25
6,235.0	21.90	33.50	6,227.7	4,738.7	71.2	22.1	-49.7	6.13	6.13	-0.32
6,267.0	25.10	33.50	6,257.0	4,768.0	81.8	29.1	-55.2	10.00	10.00	0.00
6,298.0	28.40	33.00	6,284.7	4,795.7	93.5	36.8	-61.3	10.67	10.65	-1.61
6,330.0	31.90	32.60	6,312.4	4,823.4	107.0	45.5	-68.4	10.96	10.94	-1.25
6,361.0	35.30	32.40	6,338.2	4,849.2	121.5	54.7	-76.0	10.97	10.97	-0.65
6,393.0	39.60	31.90	6,363.6	4,874.6	137.9	65.0	-84.8	13.47	13.44	-1.56
6,424.0	42.50	32.30	6,386.9	4,897.9	155.2	75.8	-94.1	9.39	9.35	1.29
6,456.0	42.70	32.40	6,410.5	4,921.5	173.5	87.4	-103.8	0.66	0.63	0.31
6,519.0	41.20	30.80	6,457.4	4,968.4	209.3	109.5	-123.2	2.92	-2.38	-2.54
6,582.0	41.80	33.70	6,504.5	5,015.5	244.8	131.8	-142.0	3.20	0.95	4.60
6,645.0	40.40	35.00	6,552.0	5,063.0	278.8	155.1	-159.3	2.60	-2.22	2.06
6,708.0	39.10	35.10	6,600.5	5,111.5	311.8	178.3	-175.7	2.07	-2.06	0.16
6,771.0	39.30	35.40	6,649.3	5,160.3	344.3	201.3	-191.7	0.44	0.32	0.48
6,834.0	39.60	36.90	6,697.9	5,208.9	376.6	224.9	-207.3	1.59	0.48	2.38
6,897.0	38.40	36.70	6,746.9	5,257.9	408.4	248.6	-222.3	1.92	-1.90	-0.32
6,959.0	39.00	36.50	6,795.3	5,306.3	439.5	271.7	-237.1	0.99	0.97	-0.32
7,022.0	41.80	33.00	6,843.2	5,354.2	473.1	295.0	-253.9	5.72	4.44	-5.56
7,054.0	41.60	32.00	6,867.1	5,378.1	491.0	306.4	-263.4	2.17	-0.63	-3.13
7,085.0	40.50	36.40	6,890.5	5,401.5	507.9	317.8	-272.0	9.97	-3.55	14.19
7,117.0	38.80	43.70	6,915.2	5,426.2	523.5	330.9	-278.6	15.49	-5.31	22.81
7,148.0	37.80	50.50	6,939.5	5,450.5	536.5	345.0	-282.6	13.97	-3.23	21.94

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<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1489.0usft
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1489.0usft
<b>Site:</b>	Wetzel County 512630	<b>North Reference:</b>	Grid
<b>Well:</b>	Well #513050	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Main Wellbore		
<b>Design:</b>	As Entitled 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)
7,180.0	36.50	57.90	6,965.0	5,476.0	547.9	360.6	-284.3	14.54	-4.06	23.13
7,211.0	35.10	63.90	6,990.2	5,501.2	556.7	376.4	-283.7	12.18	-4.52	19.35
7,243.0	32.70	69.10	7,016.7	5,527.7	563.8	392.8	-281.4	11.76	-7.50	16.25
7,275.0	29.50	72.70	7,044.1	5,555.1	569.2	408.4	-278.0	11.56	-10.00	11.25
7,306.0	28.10	76.80	7,071.3	5,582.3	573.2	422.8	-274.0	7.81	-4.52	13.23
7,338.0	28.30	77.50	7,099.5	5,610.5	576.5	437.5	-269.3	1.21	0.63	2.19
7,369.0	27.80	82.40	7,126.9	5,637.9	579.1	451.9	-264.1	7.60	-1.61	15.81
7,401.0	27.40	88.30	7,155.2	5,666.2	580.3	466.6	-257.6	8.63	-1.25	18.44
7,433.0	28.40	92.50	7,183.5	5,694.5	580.2	481.6	-249.8	6.89	3.13	13.13
7,464.0	29.40	95.60	7,210.7	5,721.7	579.1	496.5	-241.2	5.81	3.23	10.00
7,496.0	30.20	102.30	7,238.4	5,749.4	576.6	512.2	-231.0	10.70	2.50	20.94
7,527.0	32.30	106.40	7,264.9	5,775.9	572.6	527.8	-219.5	9.64	6.77	13.23
7,559.0	34.20	110.80	7,291.7	5,802.7	567.0	544.4	-206.2	9.59	5.94	13.75
7,591.0	36.30	116.30	7,317.8	5,828.8	559.6	561.3	-191.1	11.89	6.56	17.19
7,622.0	39.70	119.50	7,342.3	5,853.3	550.7	578.2	-174.8	12.67	10.97	10.32
7,654.0	42.40	122.90	7,366.4	5,877.4	539.8	596.1	-156.2	10.95	8.44	10.63
7,717.0	47.30	129.40	7,411.1	5,922.1	513.5	631.9	-115.3	10.64	7.78	10.32
7,748.0	50.20	132.40	7,431.5	5,942.5	498.3	649.5	-93.2	11.85	9.35	9.68
7,780.0	53.20	135.90	7,451.4	5,962.4	480.8	667.5	-68.9	12.71	9.38	10.94
7,811.0	56.40	139.90	7,469.2	5,980.2	462.0	684.4	-44.0	14.75	10.32	12.90
7,843.0	58.30	143.60	7,486.5	5,997.5	440.8	701.1	-17.3	11.40	5.94	11.56
7,874.0	62.50	145.40	7,501.8	6,012.8	418.9	716.8	9.5	14.46	13.55	5.81
7,908.0	66.40	147.50	7,515.6	6,026.6	394.8	732.7	38.4	13.55	12.19	6.56
7,938.0	69.20	151.10	7,527.7	6,038.7	369.3	747.8	68.0	13.60	8.75	11.25
7,969.0	73.20	154.70	7,537.7	6,048.7	343.2	761.2	97.3	16.95	12.90	11.61
8,001.0	75.90	158.70	7,546.2	6,057.2	314.9	773.4	127.8	14.71	8.44	12.50
8,032.0	77.20	160.10	7,553.4	6,064.4	286.7	784.0	157.5	6.07	4.19	4.52
8,064.0	78.70	162.40	7,560.1	6,071.1	257.0	794.0	188.1	8.45	4.69	7.19
8,096.0	80.80	165.00	7,565.8	6,076.8	226.8	802.9	218.5	10.34	6.56	8.13
8,127.0	84.10	167.10	7,569.9	6,080.9	197.0	810.3	247.9	12.59	10.65	6.77
8,159.0	87.10	167.60	7,572.3	6,083.3	165.9	817.2	278.2	9.50	9.38	1.56
8,222.0	89.90	166.70	7,574.0	6,085.0	104.5	831.2	338.0	4.67	4.44	-1.43
8,286.0	89.40	167.00	7,574.4	6,085.4	42.2	845.8	399.0	0.91	-0.78	0.47
8,349.0	89.00	167.20	7,575.3	6,086.3	-19.2	859.9	458.9	0.71	-0.63	0.32
8,412.0	88.70	168.00	7,576.5	6,087.5	-80.8	873.4	518.6	1.36	-0.48	1.27
8,475.0	88.20	168.00	7,578.2	6,089.2	-142.4	886.5	578.1	0.79	-0.79	0.00
8,538.0	87.50	167.30	7,580.6	6,091.6	-203.9	900.0	637.8	1.57	-1.11	-1.11
8,601.0	88.10	167.50	7,583.0	6,094.0	-265.3	913.7	697.5	1.00	0.95	0.32
8,664.0	88.80	167.70	7,584.7	6,095.7	-326.8	927.2	757.2	1.16	1.11	0.32
8,727.0	88.60	168.20	7,586.1	6,097.1	-388.4	940.4	816.8	0.85	-0.32	0.79
8,790.0	89.60	169.30	7,587.1	6,098.1	-450.2	952.6	876.1	2.36	1.59	1.75
8,853.0	90.20	169.90	7,587.2	6,098.2	-512.1	964.0	935.1	1.35	0.95	0.95
8,916.0	90.20	169.00	7,587.0	6,098.0	-574.1	975.6	994.2	1.43	0.00	-1.43



Phoenix Technology Services  
Survey Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Site Wetzel County 513930
<b>Company:</b>	EQT Production - Marcellus	<b>TVD Reference:</b>	KB @ 1489.0usft
<b>Project:</b>	Wetzel County, WV	<b>MD Reference:</b>	KB @ 1489.0usft
<b>Site:</b>	Wetzel County 513930	<b>North Reference:</b>	G-1d
<b>Well:</b>	Well #513930	<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)
8,979.0	89.80	168.10	7,587.0	6,098.0	-635.8	988.1	1,053.5	1.56	-0.63	-1.43
9,042.0	89.50	168.50	7,587.4	6,098.4	-697.5	1,000.8	1,113.0	0.79	-0.48	0.63
9,105.0	89.20	168.30	7,588.1	6,099.1	-759.2	1,013.5	1,172.4	0.57	-0.48	-0.32
9,167.0	88.40	167.40	7,589.4	6,100.4	-819.8	1,026.6	1,231.1	1.94	-1.29	-1.45
9,230.0	88.10	167.00	7,591.3	6,102.3	-881.2	1,040.5	1,291.0	0.79	-0.48	-0.63
9,294.0	88.20	167.30	7,593.4	6,104.4	-943.6	1,054.7	1,351.7	0.49	0.16	0.47
9,357.0	89.90	167.50	7,594.4	6,105.4	-1,005.1	1,068.5	1,411.5	2.72	2.70	0.32
9,420.0	89.80	167.20	7,594.6	6,105.6	-1,066.5	1,082.3	1,471.3	0.50	-0.16	-0.48
9,483.0	89.50	166.60	7,595.0	6,106.0	-1,127.9	1,096.5	1,531.3	1.06	-0.48	-0.95
9,546.0	89.00	166.20	7,595.8	6,106.8	-1,189.1	1,111.4	1,591.4	1.02	-0.79	-0.63
9,609.0	89.10	165.60	7,596.9	6,107.9	-1,250.2	1,126.7	1,651.7	0.97	0.16	-0.95
9,672.0	88.90	165.50	7,598.0	6,109.0	-1,311.2	1,142.4	1,712.1	0.35	-0.32	-0.16
9,736.0	88.70	165.20	7,599.3	6,110.3	-1,373.1	1,158.6	1,773.5	0.56	-0.31	-0.47
9,799.0	88.90	166.50	7,600.6	6,111.6	-1,434.2	1,174.0	1,833.8	2.09	0.32	2.06
9,862.0	89.60	168.50	7,601.4	6,112.4	-1,495.7	1,187.6	1,893.6	3.36	1.11	3.17
9,925.0	89.50	168.90	7,601.9	6,112.9	-1,557.5	1,200.0	1,952.9	0.65	-0.16	0.63
9,988.0	89.20	169.40	7,602.7	6,113.7	-1,619.3	1,211.8	2,012.0	0.93	-0.48	0.79
10,051.0	89.00	167.80	7,603.6	6,114.6	-1,681.1	1,224.3	2,071.4	2.56	-0.32	-2.54
10,114.0	91.30	166.40	7,603.5	6,114.5	-1,742.5	1,238.4	2,131.3	4.27	3.65	-2.22
10,177.0	91.20	165.70	7,602.1	6,113.1	-1,803.6	1,253.5	2,191.5	1.12	-0.16	-1.11
10,240.0	90.10	164.30	7,601.4	6,112.4	-1,864.5	1,269.8	2,252.1	2.83	-1.75	-2.22
10,303.0	88.30	162.10	7,602.3	6,113.3	-1,924.8	1,288.0	2,313.2	4.51	-2.86	-3.49
10,366.0	87.50	161.00	7,604.6	6,115.6	-1,984.5	1,308.0	2,374.6	2.16	-1.27	-1.75
10,428.0	87.20	160.80	7,607.4	6,118.4	-2,043.0	1,328.2	2,435.2	0.58	-0.48	-0.32
10,491.0	88.20	164.60	7,610.0	6,121.0	-2,103.1	1,346.9	2,496.4	6.23	1.59	6.03
10,554.0	88.80	165.20	7,611.6	6,122.6	-2,163.9	1,363.4	2,557.0	1.35	0.95	0.95
Last Survey MD=10595'										
10,595.0	89.00	165.60	7,612.4	6,123.4	-2,203.6	1,373.7	2,596.3	1.09	0.49	0.98
Projection to TD MD=10647'										
10,647.0	89.00	165.60	7,613.3	6,124.3	-2,253.9	1,386.6	2,646.1	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,798.0	5,797.7	29.1	-8.3	Gyro Tie In MD=5798'
10,595.0	7,612.4	-2,203.6	1,373.7	Last Survey MD=10595'
10,647.0	7,613.3	-2,253.9	1,386.6	Projection to TD MD=10647'

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



# EQT Production - Marcellus

Project: Wetzel County, WV  
Site: Wetzel County 513930  
Well: Well #513930  
Wellbore: Main Wellbore  
Design: As Drilled Surveys

