

EQT Production - Marcellus

Marion County, WV

Marion County 513436

Well #513436

Main Wellbore

Design: 513436 As Drilled Surveys

Standard Survey Report

17 February, 2015

Phoenix Technologies

Survey Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Marion County 513436
Company:	EOT Production - Mercatus	TVD Reference:	KB@23 R @ 1184.0usft
Project:	Marion County, WV	MD Reference:	KB@23 R @ 1184.0usft
Site:	Marion County 513436	North Reference:	Grid
Well:	Well #513436	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513436 As Drilled Surveys		

Project Marion County, WV

Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		Using geodetic scale factor

Site Marion County 513436

Site Position:		Northing:	400,932.20 usft	Latitude:	39.60
From:	Map	Easting:	1,793,400.30 usft	Longitude:	-80.23
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.47 °

Well Well #513436

Well Position	+N/-S	0.0 usft	Northing:	400,932.20 usft	Latitude:	39° 35' 54.519 N
	+E/-W	0.0 usft	Easting:	1,793,400.30 usft	Longitude:	80° 13' 59.459 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	1,141.0 usft

Wellbore Main Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/19/2015	-8.90	66.95	52,303

Design 513436 As Drilled Surveys

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	192.17

Survey Program Date 2/17/2015

From (')	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	5,242.0	513436 Gyrodata Gyro (Main Wellbore)	GYD_DP_MS	Gyrodata gyro-compassing and drop
0.00	11,043.0	513436 PHX MWD- Curve and Lat (Main W	MWD+IGRF	MWD+IGRF v3 standard declination

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	-1,164.0	0.0	0.0	0.0	0.00	0.00	0.00
110.0	0.37	145.94	110.0	-1,054.0	-0.3	0.2	0.2	0.34	0.34	0.00
210.0	0.39	158.18	210.0	-954.0	-0.9	0.5	0.8	0.08	0.02	12.24
310.0	0.36	144.48	310.0	-854.0	-1.4	0.8	1.2	0.09	-0.03	-13.70
410.0	0.46	126.18	410.0	-754.0	-1.9	1.3	1.6	0.16	0.10	-18.30
510.0	0.41	139.57	510.0	-654.0	-2.5	1.9	2.0	0.11	-0.05	13.39
610.0	0.37	177.54	610.0	-554.0	-3.0	2.1	2.5	0.26	-0.04	38.07
710.0	0.60	254.62	710.0	-454.0	-3.5	1.6	3.1	0.63	0.23	76.98

Phoenix Technologies

Survey Report

Database:	EPM 5000 - Single-User 170	Local Co-ordinate Reference:	Site Marion County 513435
Company:	EEG Production - Marcellus	TVD Reference:	#3@23 ft @ 1154 Dusst
Project:	Marion County, WV	MD Reference:	#3@23 ft @ 1154 Dusst
Site:	Marion County 513435	North Reference:	Site
Well:	Well 4378070	Survey Calculation Method:	Minimum Curvature
Wellbore:	Acid Wellbore		
Design:	12450 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)	
810.0	1.16	244.03	810.0	-354.0	-4.1	0.2	4.0	0.58	0.58	-10.59	
910.0	8.22	230.61	909.6	-254.4	-9.1	-6.2	10.2	7.10	7.05	-13.42	
1,010.0	10.91	233.54	1,008.2	-155.8	-19.2	-19.4	22.9	2.73	2.69	2.93	
1,110.0	7.62	253.19	1,106.9	-57.1	-26.8	-33.3	33.2	4.52	-3.29	19.65	
1,210.0	5.31	304.28	1,206.3	42.3	-26.1	-43.5	34.7	5.94	-2.31	51.09	
1,310.0	3.15	305.52	1,306.0	142.0	-21.9	-49.6	31.9	2.16	-2.16	1.24	
1,410.0	1.38	212.93	1,406.0	242.0	-21.3	-52.5	31.9	3.50	-1.77	-92.59	
1,510.0	2.01	192.26	1,505.9	341.9	-24.0	-53.5	34.8	0.87	0.63	-20.67	
1,610.0	2.41	186.44	1,605.9	441.9	-27.8	-54.1	38.6	0.46	0.40	-5.82	
1,710.0	2.94	183.25	1,705.8	541.8	-32.5	-54.5	43.2	0.55	0.53	-3.19	
1,810.0	3.14	182.27	1,805.6	641.6	-37.8	-54.7	46.5	0.21	0.20	-0.98	
1,910.0	3.51	181.29	1,905.4	741.4	-43.6	-54.9	54.2	0.37	0.37	-0.98	
2,010.0	3.87	182.35	2,005.2	841.2	-50.0	-55.1	60.5	0.37	0.36	1.06	
2,110.0	4.00	182.58	2,105.0	941.0	-56.9	-55.4	67.3	0.13	0.13	0.23	
2,210.0	4.34	182.47	2,204.7	1,040.7	-64.1	-55.7	74.4	0.34	0.34	-0.11	
2,310.0	4.60	182.04	2,304.4	1,140.4	-71.9	-56.0	82.1	0.26	0.26	-0.43	
2,410.0	4.86	180.22	2,404.1	1,240.1	-80.2	-56.2	90.2	0.30	0.26	-1.82	
2,510.0	5.00	179.33	2,503.7	1,339.7	-88.8	-56.2	98.6	0.16	0.14	-0.89	
2,610.0	5.27	177.69	2,603.3	1,439.3	-97.7	-55.9	107.3	0.31	0.27	-1.64	
2,710.0	5.50	177.55	2,702.9	1,538.9	-107.1	-55.5	116.4	0.23	0.23	-0.14	
2,810.0	5.67	177.26	2,802.4	1,638.4	-116.6	-55.1	125.8	0.17	0.17	-0.27	
2,910.0	5.73	176.23	2,901.9	1,737.9	-126.7	-54.5	135.4	0.12	0.06	-1.05	
3,010.0	5.64	174.76	3,001.4	1,837.4	-136.6	-53.8	144.9	0.17	-0.09	-1.47	
3,110.0	5.41	173.10	3,101.0	1,937.0	-146.2	-52.7	154.0	0.28	-0.23	-1.66	
3,210.0	4.17	170.15	3,200.6	2,036.6	-154.4	-51.6	161.8	1.26	-1.24	-2.95	
3,310.0	3.21	165.63	3,300.4	2,136.4	-160.7	-50.2	167.7	1.00	-0.96	-4.52	
3,410.0	2.27	159.88	3,400.3	2,236.3	-165.3	-48.9	171.9	0.98	-0.94	-5.75	
3,510.0	1.67	154.87	3,500.2	2,336.2	-168.5	-47.6	174.7	0.62	-0.60	-5.01	
3,610.0	1.48	151.92	3,600.2	2,436.2	-170.9	-46.3	176.9	0.21	-0.19	-2.95	
3,710.0	1.14	152.50	3,700.2	2,536.2	-173.0	-45.3	178.6	0.34	-0.34	0.58	
3,810.0	1.08	152.83	3,800.1	2,636.1	-174.7	-44.4	180.1	0.06	-0.06	0.33	
3,910.0	1.06	149.60	3,900.1	2,736.1	-176.3	-43.5	181.5	0.06	-0.02	-3.23	
4,010.0	1.05	145.74	4,000.1	2,836.1	-177.9	-42.5	182.8	0.07	-0.01	-3.86	
4,110.0	0.78	143.69	4,100.1	2,936.1	-179.2	-41.6	183.9	0.27	-0.27	-2.05	
4,210.0	0.81	135.14	4,200.1	3,036.1	-180.2	-40.7	184.7	0.12	0.03	-8.55	
4,310.0	0.75	138.84	4,300.1	3,136.1	-181.2	-39.7	185.5	0.08	-0.06	3.70	
4,410.0	0.75	137.43	4,400.1	3,236.1	-182.2	-38.9	186.3	0.02	0.00	-1.41	
4,510.0	0.81	140.32	4,500.1	3,336.1	-183.2	-38.0	187.1	0.07	0.06	2.89	
4,610.0	0.87	140.25	4,600.0	3,436.0	-184.3	-37.0	188.0	0.06	0.06	-0.07	
4,710.0	1.02	128.52	4,700.0	3,536.0	-185.5	-35.9	188.9	0.24	0.15	-11.73	
4,810.0	1.14	120.49	4,800.0	3,636.0	-186.5	-34.3	189.6	0.19	0.12	-8.03	
4,910.0	1.12	126.22	4,900.0	3,736.0	-187.6	-32.7	190.3	0.11	-0.02	5.73	

Phoenix Technologies

Survey Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Marion County 513436
Company:	EOT Production - Maricopa	TVD Reference:	KB@23 ft @ 1184.0usft
Project:	Marion County, WV	MD Reference:	KB@23 ft @ 1184.0usft
Site:	Marion County, 513436	North Reference:	Grid
Well:	Well #513436	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513436 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)
5 010 0	1 06	123.41	5,000.0	3,836.0	-188.7	-31.1	191.0	0.08	-0.06	-2.81
5 110 0	0 89	132.90	5,100.0	3,936.0	-189.7	-29.8	191.8	0.23	-0.17	9.49
5 210 0	1 11	138.61	5,199.9	4,035.9	-191.0	-28.5	192.7	0.24	0.22	5.71
The base is 211.03										
5 242 0	1 24	139.02	5,231.9	4,067.9	-191.5	-28.1	193.1	0.41	0.41	1.28
5 260 0	1 10	145.90	5,249.9	4,085.9	-191.8	-27.9	193.4	1 10	-0.78	38.22
5 355 0	1 40	141.80	5,344.9	4,180.9	-193.5	-26.7	194.7	0.33	0.32	-4.32
5 417 0	1 40	143.80	5,406.9	4,242.9	-194.7	-25.7	195.7	0.08	0.00	3.23
5 449 0	1 50	142.60	5,438.9	4,274.9	-195.3	-25.3	196.2	0.33	0.31	-3.75
5 480 0	1 20	200.30	5,469.9	4,305.9	-195.9	-25.1	196.8	4.29	-0.97	186.13
5 511 0	2 90	245.40	5,500.9	4,336.9	-196.6	-26.0	197.6	7.17	5.48	145.48
5 543 0	4 60	255.70	5 532.8	4,368.8	-197.2	-27.9	198.7	5.69	5.31	32.19
5,575.0	6.60	258.10	5,564.6	4,400.6	-197.9	-31.0	200.0	6.29	6.25	7.50
5,606.0	8.80	260.40	5,595.3	4,431.3	-198.7	-35.1	201.6	7.16	7.10	7.42
5,638.0	10.60	260.40	5,626.9	4,462.9	-199.6	-40.4	203.6	5.63	5.63	0.00
5,669.0	12.40	260.30	5,657.3	4,493.3	-200.6	-46.5	205.9	5.81	5.81	-0.32
5,700.0	14.50	257.50	5,687.4	4,523.4	-202.0	-53.5	208.8	7.09	6.77	-9.03
5 732 0	16 70	255.40	5,718.2	4,554.2	-204.0	-61.9	212.5	7 10	6.88	-6.56
5,764.0	19.50	256.00	5,748.6	4,584.6	-206.5	-71.5	216.9	8.77	8.75	1.88
5,795.0	23.00	259.70	5,777.5	4,613.5	-208.8	-82.5	221.5	12.09	11.29	11.94
5 826 0	26 20	261.20	5,805.7	4,641.7	-211.0	-95.2	226.3	10.52	10.32	4.84
5 858 0	30 20	261.60	5,833.9	4,669.9	-213.2	-110.2	231.7	12.51	12.50	1.25
5 889 0	33 40	262.10	5,860.3	4,696.3	-215.5	-126.4	237.3	10.36	10.32	1.61
5 921 0	35 80	261.30	5,886.6	4,722.6	-218.2	-144.3	243.7	7.63	7.50	-2.50
5 952 0	38 30	260.90	5,911.3	4,747.3	-221.0	-162.8	250.4	8 10	8.06	-1.29
6 015 0	42 80	260.70	5,959.2	4,795.2	-227.6	-203.2	265.3	7 15	7.14	-0.32
6 109 0	41 30	258.90	6,029.0	4,865.0	-238.7	-265.2	289.3	2.05	-1.60	-1.91
6 204 0	41 20	261.20	6,100.4	4,936.4	-249.6	-326.9	312.9	1.60	-0.11	2.42
6 298 0	42 60	262.00	6,170.4	5,006.4	-258.7	-389.0	334.9	1.59	1.49	0.85
6 392 0	40 50	260.80	6,240.7	5,076.7	-268.0	-450.6	357.0	2.39	-2.23	-1.28
6 487 0	42 70	260.00	6,311.8	5,147.8	-278.6	-512.8	380.4	2.38	2.32	-0.84
6,582.0	40.90	259.10	6,382.6	5,218.6	-290.0	-575.0	404.8	2.00	-1.89	-0.95
6,677.0	42.10	263.50	6,453.8	5,289.8	-299.5	-637.2	427.2	3.32	1.26	4.63
6,772.0	40.30	263.30	6,525.2	5,361.2	-306.7	-699.4	447.3	1.90	-1.89	-0.21
6 866 0	43 40	262.40	6,595.2	5,431.2	-314.5	-761.6	468.1	3.36	3.30	-0.96
6 961 0	42 30	260.50	6,664.9	5,500.9	-324.1	-825.5	490.9	1.79	-1.16	-2.00
7 055 0	43 00	264.40	6,734.0	5,570.0	-332.5	-888.6	512.4	2.91	0.74	4.15
7,150.0	41.30	263.40	6,804.5	5,640.5	-339.2	-952.0	532.4	1.92	-1.79	-1.05
7,245.0	42.40	262.50	6,875.2	5,711.2	-347.0	-1,014.9	553.2	1.32	1.16	-0.95
7,339.0	41.90	261.60	6,944.9	5,780.9	-355.7	-1,077.4	574.9	0.83	-0.53	-0.96
7 433 0	42 40	261.80	7,014.6	5,850.6	-364.8	-1,139.8	597.0	0.55	0.53	0.21
7,528.0	40.70	259.70	7,085.7	5,921.7	-375.0	-1,202.0	620.0	2.31	-1.79	-2.21
7 622 0	38 70	260.30	7,158.0	5,994.0	-385.4	-1,261.1	642.7	2.17	-2.13	0.64

Phoenix Technologies
Survey Report

Database:	EDM 5000 1 Single Bear DB	Local Co-ordinate Reference:	Site Marion County 513438
Company:	EQT Production - Marcellus	TVD Reference:	KB@23 R @ 1164.0usf
Project:	Marion County - WV	MD Reference:	KB@23 R @ 1164.0usf
Site:	Marion County 513438	North Reference:	GN
Well:	Well #513438	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513438 A-0 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)
7,686.0	38.20	257.20	7,208.2	6,044.2	-393.1	-1,300.1	658.5	3.11	-0.78	-4.84
7,717.0	37.00	251.30	7,232.7	6,068.7	-398.3	-1,318.3	667.3	12.24	-3.87	-19.03
7,749.0	37.30	245.90	7,258.2	6,094.2	-405.3	-1,336.3	678.0	10.23	0.94	-16.88
7,780.0	36.10	240.50	7,282.8	6,118.8	-413.9	-1,353.2	689.9	10.96	2.58	-17.42
7,812.0	40.00	237.40	7,307.6	6,143.6	-424.3	-1,370.5	703.7	8.51	5.94	-9.69
7,843.0	41.90	233.00	7,331.0	6,167.0	-435.9	-1,387.1	718.6	11.14	6.13	-14.19
7,874.0	43.70	228.10	7,353.8	6,189.8	-449.2	-1,403.4	735.1	12.21	5.81	-15.81
7,906.0	44.80	224.40	7,376.7	6,212.7	-464.7	-1,419.5	753.6	8.77	3.44	-11.56
7,938.0	45.40	220.00	7,399.3	6,235.3	-481.5	-1,434.7	773.2	9.92	1.88	-13.75
7,969.0	47.00	216.90	7,420.8	6,256.8	-499.0	-1,448.6	793.3	8.87	5.16	-10.00
8,000.0	49.40	212.50	7,441.4	6,277.4	-518.0	-1,461.7	814.6	13.11	7.74	-14.19
8,032.0	51.30	208.40	7,461.9	6,297.9	-539.2	-1,474.2	838.0	11.51	5.94	-12.81
8,063.0	53.10	205.00	7,480.8	6,316.9	-561.1	-1,485.2	861.7	10.43	5.81	-10.97
8,095.0	54.10	202.10	7,499.9	6,335.9	-584.7	-1,495.5	887.0	7.94	3.13	-9.06
8,127.0	55.50	197.60	7,518.3	6,354.3	-609.3	-1,504.4	912.9	12.29	4.38	-14.06
8,158.0	57.60	194.70	7,535.4	6,371.4	-634.1	-1,511.5	938.7	10.33	6.77	-9.35
8,190.0	60.50	191.40	7,551.9	6,387.9	-660.9	-1,517.7	966.1	12.66	9.06	-10.31
8,221.0	63.10	189.70	7,566.5	6,402.5	-687.7	-1,522.7	993.4	9.68	8.39	-5.48
8,252.0	65.10	188.10	7,580.0	6,416.0	-715.3	-1,527.0	1,021.2	7.95	6.45	-5.16
8,284.0	66.10	186.10	7,593.3	6,429.3	-744.2	-1,530.6	1,050.3	6.49	3.13	-6.25
8,315.0	66.50	182.60	7,605.7	6,441.7	-772.5	-1,532.8	1,078.4	10.42	1.29	-11.29
8,347.0	67.70	179.30	7,618.2	6,454.2	-802.0	-1,533.3	1,107.3	10.21	3.75	-10.31
8,379.0	69.10	178.10	7,630.0	6,466.0	-831.7	-1,532.6	1,136.2	5.59	4.38	-3.75
8,410.0	71.80	176.60	7,640.4	6,476.4	-860.9	-1,531.2	1,164.4	9.26	8.06	-4.84
8,442.0	73.60	174.60	7,650.0	6,486.0	-891.3	-1,528.9	1,193.7	8.64	6.25	-6.25
8,473.0	75.20	172.50	7,658.3	6,494.3	-921.0	-1,525.5	1,222.0	8.32	5.16	-6.77
8,505.0	76.70	169.90	7,666.1	6,502.1	-951.6	-1,520.8	1,251.0	9.17	4.69	-8.13
8,536.0	78.30	168.10	7,672.8	6,508.8	-981.4	-1,515.0	1,278.8	7.67	5.16	-5.81
8,568.0	79.90	166.00	7,678.8	6,514.8	-1,012.0	-1,508.0	1,307.2	8.16	5.00	-6.56
8,599.0	82.80	164.00	7,683.5	6,519.5	-1,041.6	-1,500.0	1,334.5	11.32	9.35	-6.45
8,631.0	85.50	161.90	7,686.8	6,522.8	-1,072.0	-1,490.7	1,362.3	10.67	8.44	-6.56
CP1 Deepest Point of Well= 8562 MD7889 TVD										
8,662.0	86.90	161.20	7,688.8	6,524.8	-1,101.3	-1,480.9	1,388.9	5.05	4.52	-2.26
8,725.0	92.50	160.30	7,689.1	6,525.1	-1,160.8	-1,460.2	1,442.6	9.00	8.89	-1.43
8,756.0	93.30	160.90	7,687.6	6,523.6	-1,190.0	-1,449.9	1,469.0	3.22	2.58	1.94
8,850.0	91.50	162.60	7,683.6	6,519.6	-1,279.2	-1,420.5	1,550.0	2.63	-1.91	1.81
8,944.0	89.40	164.10	7,682.9	6,518.9	-1,369.2	-1,393.5	1,632.3	2.75	-2.23	1.60
9,038.0	90.10	164.00	7,683.3	6,519.3	-1,459.6	-1,367.7	1,715.2	0.75	0.74	-0.11
9,132.0	90.10	163.60	7,683.1	6,519.1	-1,549.9	-1,341.5	1,797.9	0.43	0.00	-0.43
9,226.0	90.90	163.10	7,682.3	6,518.3	-1,639.9	-1,314.5	1,880.3	1.00	0.85	-0.53
9,320.0	90.90	160.30	7,680.8	6,516.8	-1,729.2	-1,285.0	1,961.3	2.98	0.00	-2.98
9,415.0	91.60	159.70	7,678.8	6,514.8	-1,818.4	-1,252.6	2,041.7	0.97	0.74	-0.63
9,509.0	92.50	158.90	7,675.4	6,511.4	-1,906.3	-1,219.3	2,120.6	1.28	0.96	-0.85

Phoenix Technologies

Survey Report

Database: EDM 5000 1 Single User Db Company: EOT Production - Marcellus Project: Marion County, WV Site: Marion County 513438 Well: Well #513438 Wellbore: Main Wellbore Design: 513438 As Drilled Surveys	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Marion County 513438 KB@23 ft @ 1164.0usft KB@23 ft @ 1164.0usft Grid Minimum Curvature
---	--	--

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)	
9,604.0	92.60	161.30	7,671.2	6,507.2	-1,995.5	-1,187.0	2,201.0	2.53	0.11	2.53	
9,698.0	92.30	157.60	7,667.2	6,503.2	-2,083.4	-1,154.1	2,280.0	3.95	-0.32	-3.94	
9,793.0	92.30	159.00	7,663.3	6,499.3	-2,171.6	-1,119.0	2,358.8	1.47	0.00	1.47	
9,887.0	91.30	156.10	7,660.4	6,496.4	-2,258.5	-1,083.1	2,436.1	3.26	-1.06	-3.09	
9,982.0	92.00	158.70	7,657.7	6,493.7	-2,346.1	-1,046.6	2,514.1	2.83	0.74	2.74	
10,076.0	91.20	162.60	7,655.0	6,491.0	-2,434.8	-1,015.5	2,594.2	4.23	-0.85	4.15	
10,170.0	92.20	163.50	7,652.2	6,488.2	-2,524.6	-988.1	2,676.2	1.43	1.06	0.96	
10,265.0	92.80	163.40	7,648.1	6,484.1	-2,615.6	-961.1	2,759.5	0.64	0.63	-0.11	
10,359.0	91.30	160.60	7,644.7	6,480.7	-2,704.9	-932.0	2,840.7	3.38	-1.60	-2.98	
10,454.0	91.30	159.80	7,642.6	6,478.6	-2,794.3	-899.9	2,921.2	0.84	0.00	-0.84	
10,549.0	93.20	163.40	7,638.9	6,474.9	-2,884.3	-869.9	3,002.9	4.28	2.00	3.79	
10,643.0	92.90	162.60	7,633.8	6,469.8	-2,974.1	-842.5	3,084.9	0.91	-0.32	-0.85	
10,737.0	93.00	161.80	7,629.0	6,465.0	-3,063.5	-813.8	3,166.2	0.86	0.11	-0.85	
10,832.0	93.20	161.30	7,623.9	6,459.9	-3,153.5	-783.7	3,247.8	0.57	0.21	-0.53	
10,926.0	92.80	161.30	7,619.0	6,455.0	-3,242.4	-753.7	3,328.4	0.43	-0.43	0.00	
Final Survey= 10989' MD/7616' TVD											
10,989.0	93.10	161.80	7,615.7	6,451.7	-3,302.1	-733.7	3,382.6	0.92	0.48	0.79	
Projection to TD= 11043' MD/7613' TVD											
11,043.0	93.10	161.80	7,612.8	6,448.8	-3,353.3	-716.9	3,429.1	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,242.0	5,231.9	-191.5	-28.1	Tie In=5242' MD	
8,662.0	7,688.8	-1,101.3	-1,480.9	LP/ Deepest Point of Well= 8662' MD/7689' TVD	
10,989.0	7,615.7	-3,302.1	-733.7	Final Survey= 10989' MD/7616' TVD	
11,043.0	7,612.8	-3,353.3	-716.9	Projection to TD= 11043' MD/7613' TVD	

Checked By _____ Approved By: _____ Date _____

EQT Production - Marcellus

Project: Marion County, WV
Site: Marion County 513436
Well: Well #513436
Wellbore: Main Wellbore
Design: 513436 As Drilled Surveys

