

EQT Production - Geneseo Shale

Wetzel County, WV

Wetzel County 513833

Well #513833

Main Wellbore

Design: 513833 As Drilled Surveys

Standard Survey Report

22 December, 2014

Phoenix Technologies
Survey Report

Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site: Wetzel County 513833
Company: EOT Production - General Scale	TVD Reference:	KB @ 676.0usft
Project: Wetzel County, WV	MD Reference:	KB @ 876.0usft
Site: Wetzel County 513833	North Reference:	Grid
Well: Well #513833	Survey Calculation Method:	Minimum Curvature
Wellbore: Main Wellbore		
Design: 513833 As Drilled Surveys		

Project: Wetzel 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		

Site: Wetzel County 513833					
Site Position:	Northing:	388,084.21 usft	Latitude:	39.56	
From: Map	Easting:	1,700,924.42 usft	Longitude:	-80.56	
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.68 °

Well: Well #513833						
Well Position	+N-S	0.0 usft	Northing:	388,084.21 usft	Latitude:	39° 33' 38.412 N
	+E-W	0.0 usft	Easting:	1,700,924.42 usft	Longitude:	80° 33' 38.874 W
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft	Ground Level:	860.0 usft	

Wellbore: Main Wellbore					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/8/2014	-8.71	66.95	52,351

Design: 513833 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	330.86	

Survey Program					
	Date	12/22/2014			
From (')	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,050.0	513833 Gyrodata (Main Wellbore)	GYD_DP_MS	Gyrodata gyro-compassing and drop	
0.00	11,732.0	513833 MWD Surveys (Main Wellbore)	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	-876.0	0.0	0.0	0.0	0.00	0.00	0.00	
103.0	0.41	195.41	103.0	-773.0	-0.4	-0.1	-0.3	0.40	0.40	0.00	
203.0	0.25	151.34	203.0	-673.0	-0.9	-0.1	-0.7	0.29	-0.16	-44.07	
303.0	0.25	135.23	303.0	-573.0	-1.2	0.2	-1.2	0.07	0.00	-16.11	
403.0	0.13	150.46	403.0	-473.0	-1.5	0.4	-1.5	0.13	-0.12	15.23	
503.0	0.11	246.74	503.0	-373.0	-1.6	0.3	-1.6	0.18	-0.02	96.28	
603.0	0.28	256.55	603.0	-273.0	-1.7	0.0	-1.5	0.17	0.17	9.81	
703.0	0.05	284.06	703.0	-173.0	-1.8	-0.3	-1.4	0.24	-0.23	27.51	

Phoenix Technologies
Survey Report

Database:	EM 9000 Single User DB	Local Co-ordinate Reference:	Site Watzel County 513833
Company:	EST Production - Gansco Shale	TVD Reference:	KB @ 876.0usft
Project:	Watzel County, WV	MD Reference:	KB @ 876.0usft
Site:	Watzel County 513833	North Reference:	Grid
Well:	Well 513833	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513833 A-Drilled Through		

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)
803.0	0.04	247.08	803.0	-73.0	-1.8	-0.3	-1.4	0.03	-0.01	-36.98
903.0	0.20	186.78	903.0	27.0	-2.0	-0.4	-1.5	0.18	0.16	-60.30
1,003.0	0.56	188.61	1,003.0	127.0	-2.6	-0.5	-2.1	0.36	0.36	1.83
1,103.0	0.55	190.13	1,103.0	227.0	-3.6	-0.6	-2.8	0.02	-0.01	1.52
1,203.0	0.46	193.85	1,203.0	327.0	-4.4	-0.8	-3.5	0.10	-0.09	3.72
1,303.0	0.48	195.88	1,303.0	427.0	-5.2	-1.0	-4.1	0.03	0.02	2.03
1,403.0	0.52	187.29	1,403.0	527.0	-6.1	-1.2	-4.7	0.08	0.04	-8.59
1,503.0	0.95	167.82	1,503.0	627.0	-7.3	-1.1	-5.9	0.49	0.43	-19.47
1,603.0	1.48	165.78	1,602.9	726.9	-9.4	-0.6	-7.9	0.53	0.53	-2.04
1,703.0	2.12	163.41	1,702.9	826.9	-12.4	0.3	-11.0	0.64	0.64	-2.37
1,803.0	2.34	166.11	1,802.8	926.8	-16.2	1.3	-14.8	0.24	0.22	2.70
1,903.0	2.83	168.77	1,902.7	1,026.7	-20.6	2.2	-19.1	0.50	0.49	2.66
2,003.0	2.90	168.68	2,002.6	1,126.6	-25.5	3.2	-23.8	0.07	0.07	-0.09
2,103.0	3.01	169.79	2,102.5	1,226.5	-30.5	4.2	-28.7	0.12	0.11	1.11
2,203.0	3.07	168.70	2,202.3	1,326.3	-35.8	5.2	-33.8	0.08	0.06	-1.09
2,303.0	2.78	172.74	2,302.2	1,426.2	-40.8	6.0	-38.6	0.36	-0.29	4.04
2,403.0	2.99	176.79	2,402.1	1,526.1	-45.8	6.5	-43.1	0.29	0.21	4.05
2,503.0	2.90	177.31	2,501.9	1,625.9	-50.9	6.7	-47.8	0.09	-0.09	0.52
2,603.0	1.72	174.29	2,601.8	1,725.8	-55.0	7.0	-51.4	1.19	-1.18	-3.02
2,703.0	1.10	174.48	2,701.8	1,825.8	-57.4	7.2	-53.7	0.62	-0.62	0.19
2,803.0	0.70	173.92	2,801.8	1,925.8	-59.0	7.4	-55.1	0.40	-0.40	-0.56
2,903.0	0.23	196.72	2,901.8	2,025.8	-59.8	7.4	-55.8	0.50	-0.47	22.80
3,003.0	0.24	254.69	3,001.8	2,125.8	-60.0	7.1	-55.9	0.23	0.01	57.97
3,103.0	0.23	283.18	3,101.8	2,225.8	-60.0	6.7	-55.7	0.12	-0.01	28.49
3,203.0	0.25	293.17	3,201.8	2,325.8	-59.9	6.3	-55.4	0.05	0.02	9.99
3,303.0	0.23	280.63	3,301.8	2,425.8	-59.8	5.9	-55.1	0.06	-0.02	-12.54
3,403.0	0.27	289.21	3,401.8	2,525.8	-59.7	5.5	-54.8	0.05	0.04	8.58
3,503.0	0.41	295.01	3,501.8	2,625.8	-59.4	5.0	-54.3	0.14	0.14	5.80
3,603.0	0.41	307.12	3,601.8	2,725.8	-59.1	4.4	-53.7	0.09	0.00	12.11
3,703.0	0.49	322.21	3,701.8	2,825.8	-58.5	3.8	-53.0	0.14	0.08	15.09
3,803.0	0.47	330.40	3,801.8	2,925.8	-57.8	3.4	-52.1	0.07	-0.02	8.19
3,903.0	0.48	314.47	3,901.8	3,025.8	-57.2	2.9	-51.3	0.13	0.01	-15.93
4,003.0	0.44	326.98	4,001.8	3,125.8	-56.5	2.3	-50.5	0.11	-0.04	12.51
4,103.0	0.47	322.13	4,101.8	3,225.8	-55.9	1.9	-49.7	0.05	0.03	-4.85
4,203.0	0.48	331.20	4,201.8	3,325.8	-55.2	1.4	-48.9	0.08	0.01	9.07
4,303.0	0.59	345.83	4,301.8	3,425.8	-54.3	1.1	-48.0	0.17	0.11	14.63
4,403.0	0.65	355.23	4,401.8	3,525.8	-53.3	0.9	-47.0	0.12	0.06	9.40
4,503.0	0.70	352.97	4,501.8	3,625.8	-52.1	0.8	-45.9	0.06	0.05	-2.26
4,603.0	0.82	352.18	4,601.7	3,725.7	-50.8	0.6	-44.7	0.12	0.12	-0.79
4,703.0	0.93	353.55	4,701.7	3,825.7	-49.3	0.4	-43.3	0.11	0.11	1.37
4,803.0	0.99	349.81	4,801.7	3,925.7	-47.6	0.2	-41.7	0.09	0.06	-3.74
4,903.0	0.88	344.98	4,901.7	4,025.7	-46.0	-0.1	-40.1	0.14	-0.11	-4.83

Phoenix Technologies

Survey Report

Database: Company: Project: Site: Well: Wellbore: Design:	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:
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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)
5,003.0	1.27	338.00	5,001.7	4,125.7	-44.3	-0.8	-38.3	0.41	0.39	-6.98
Gyro Tie in= 6050' MD										
5,050.0	1.50	335.24	5,048.7	4,172.7	-43.2	-1.2	-37.2	0.51	0.49	-5.87
5,181.0	1.30	334.60	5,179.6	4,303.6	-40.3	-2.6	-34.0	0.15	-0.15	-0.49
5,213.0	1.50	330.30	5,211.6	4,335.6	-39.6	-2.9	-33.2	0.71	0.63	-13.44
5,244.0	0.60	228.60	5,242.6	4,366.6	-39.4	-3.3	-32.8	5.56	-2.90	-328.06
5,276.0	5.30	185.40	5,274.6	4,398.6	-41.0	-3.5	-34.1	15.25	14.69	-135.00
5,308.0	9.40	183.50	5,306.3	4,430.3	-45.0	-3.8	-37.5	12.83	12.81	-5.94
5,339.0	12.40	179.30	5,336.7	4,460.7	-50.9	-3.9	-42.5	10.00	9.68	-13.55
5,371.0	14.00	177.90	5,367.9	4,491.9	-58.2	-3.8	-49.0	5.10	5.00	-4.38
5,402.0	14.90	177.60	5,397.9	4,521.9	-65.9	-3.4	-55.9	2.91	2.90	-0.97
5,434.0	16.70	178.60	5,428.7	4,552.7	-74.6	-3.2	-63.7	5.69	5.63	3.13
5,465.0	19.70	179.90	5,458.1	4,582.1	-84.3	-3.0	-72.2	9.77	9.68	4.19
5,497.0	22.50	179.40	5,488.0	4,612.0	-95.8	-3.0	-82.3	8.77	8.75	-1.56
5,528.0	24.30	178.10	5,516.5	4,640.5	-108.1	-2.7	-93.1	6.04	5.81	-4.19
5,559.0	26.60	178.90	5,544.4	4,668.4	-121.5	-2.4	-104.9	7.50	7.42	2.58
5,591.0	29.50	178.90	5,572.7	4,696.7	-136.5	-2.1	-118.2	9.06	9.06	0.00
5,623.0	33.30	177.90	5,600.0	4,724.0	-153.2	-1.6	-133.0	11.99	11.88	-3.13
5,654.0	37.20	176.80	5,625.3	4,749.3	-171.0	-0.8	-149.0	12.75	12.58	-3.55
5,686.0	40.80	177.60	5,650.2	4,774.2	-191.1	0.2	-167.1	11.36	11.25	2.50
5,749.0	40.40	177.10	5,698.0	4,822.0	-232.1	2.1	-203.7	0.82	-0.63	-0.79
5,813.0	39.70	175.50	5,747.0	4,871.0	-273.2	4.8	-240.9	1.95	-1.09	-2.50
5,876.0	41.00	177.90	5,795.0	4,919.0	-313.9	7.1	-277.6	3.22	2.06	3.81
5,939.0	41.10	178.40	5,842.5	4,966.5	-355.3	8.4	-314.4	0.54	0.16	0.79
6,002.0	41.10	175.70	5,890.0	5,014.0	-396.6	10.6	-351.5	2.82	0.00	-4.29
6,034.0	42.40	175.80	5,913.9	5,037.9	-417.9	12.2	-370.9	4.07	4.06	0.31
6,065.0	42.50	177.90	5,936.7	5,060.7	-438.7	13.3	-389.7	4.58	0.32	6.77
6,097.0	42.20	180.10	5,960.4	5,084.4	-460.3	13.7	-408.7	4.73	-0.94	6.88
6,128.0	41.80	180.80	5,983.4	5,107.4	-481.0	13.5	-426.7	1.99	-1.29	2.26
6,160.0	39.20	183.70	6,007.8	5,131.8	-501.8	12.7	-444.5	10.03	-8.13	9.06
6,191.0	35.40	186.00	6,032.4	5,156.4	-520.5	11.1	-460.0	13.05	-12.26	7.42
6,223.0	31.30	188.40	6,059.1	5,183.1	-538.0	9.0	-474.2	13.46	-12.81	7.50
6,254.0	29.10	188.00	6,085.9	5,209.9	-553.4	6.7	-486.6	7.13	-7.10	-1.29
6,286.0	28.30	186.10	6,114.0	5,238.0	-568.6	4.8	-499.0	3.79	-2.50	-5.94
6,317.0	25.30	188.60	6,141.7	5,265.7	-582.5	3.1	-510.3	10.34	-9.68	8.06
6,349.0	22.80	192.20	6,170.9	5,294.9	-595.3	0.7	-520.3	9.06	-7.81	11.25
6,380.0	20.70	199.30	6,199.7	5,323.7	-606.4	-2.3	-528.5	10.85	-6.77	22.90
6,412.0	18.90	207.00	6,229.8	5,353.8	-616.3	-6.6	-535.1	9.89	-5.63	24.06
6,443.0	18.50	216.40	6,259.2	5,383.2	-624.8	-11.8	-539.9	9.80	-1.29	30.32
6,474.0	18.40	227.40	6,288.6	5,412.6	-632.0	-18.3	-543.1	11.22	-0.32	35.48
6,506.0	18.10	236.00	6,319.0	5,443.0	-638.2	-26.1	-544.7	8.46	-0.94	26.88
6,537.0	18.70	246.80	6,348.4	5,472.4	-642.9	-34.7	-544.6	11.15	1.94	34.84
6,569.0	19.60	256.10	6,378.6	5,502.6	-646.2	-44.6	-542.7	9.93	2.81	29.06

Phoenix Technologies

Survey Report

Database:	EDM 5000.1 Single User Do	Local Co-ordinate Reference:	Site Wetzel County 513833
Company:	EQT Production - Genesee Shale	TVD Reference:	KB @ 876.0usft
Project:	Wetzel County, WV	MD Reference:	KB @ 876.0usft
Site:	Wetzel County 513833	North Reference:	Gnd
Well:	Well #513833	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513833 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)
6,601.0	21.00	265.00	6,408.7	5,532.7	-648.0	-55.5	-538.9	10.58	4.38	27.81
6,632.0	22.20	272.70	6,437.5	5,561.5	-648.2	-66.9	-533.5	9.92	3.87	24.84
6,664.0	23.50	281.00	6,467.0	5,591.0	-646.7	-79.2	-526.2	10.85	4.06	25.94
6,695.0	24.90	288.60	6,495.3	5,619.3	-643.4	-91.5	-517.4	11.01	4.52	24.52
6,727.0	26.50	294.90	6,524.1	5,648.1	-638.3	-104.4	-506.7	9.89	5.00	19.69
6,758.0	28.70	299.50	6,551.6	5,675.6	-631.7	-117.1	-494.7	9.88	7.10	14.84
6,790.0	31.30	302.80	6,579.3	5,703.3	-623.4	-130.8	-480.8	9.62	8.13	10.31
6,822.0	33.40	305.80	6,606.3	5,730.3	-613.8	-144.9	-465.5	8.26	6.56	9.38
6,853.0	36.40	310.40	6,631.8	5,755.8	-602.8	-158.8	-449.1	12.87	9.68	14.84
6,885.0	39.30	314.00	6,657.0	5,781.0	-589.6	-173.4	-430.5	11.39	9.06	11.25
6,917.0	42.80	316.30	6,681.2	5,805.2	-574.7	-188.2	-410.3	11.91	10.94	7.19
6,948.0	46.40	317.60	6,703.2	5,827.2	-558.8	-203.0	-389.2	11.98	11.61	4.19
6,980.0	50.20	319.10	6,724.5	5,848.5	-540.9	-218.9	-365.8	12.38	11.88	4.69
7,011.0	52.70	322.10	6,743.8	5,867.8	-522.2	-234.3	-342.0	11.06	8.06	9.68
7,043.0	55.60	324.40	6,762.6	5,886.6	-501.4	-249.8	-316.3	10.77	9.06	7.19
7,074.0	58.50	326.00	6,779.4	5,903.4	-480.1	-264.6	-290.4	10.31	9.35	5.16
7,106.0	61.50	327.00	6,795.4	5,919.4	-456.9	-279.9	-262.8	9.76	9.38	3.13
7,137.0	63.60	327.40	6,809.7	5,933.7	-433.8	-294.8	-235.3	6.87	6.77	1.29
7,169.0	66.90	328.80	6,823.1	5,947.1	-409.2	-310.2	-206.3	11.05	10.31	4.38
7,200.0	69.10	330.00	6,834.7	5,958.7	-384.4	-324.8	-177.6	7.95	7.10	3.87
7,232.0	71.60	330.90	6,845.5	5,969.5	-358.2	-339.6	-147.4	8.25	7.81	2.81
7,264.0	74.30	332.10	6,854.9	5,978.9	-331.3	-354.2	-116.9	9.17	8.44	3.75
7,295.0	75.90	332.50	6,862.8	5,986.8	-304.8	-368.2	-86.9	5.31	5.16	1.29
7,327.0	78.70	332.80	6,869.9	5,993.9	-277.1	-382.5	-55.7	8.80	8.75	0.94
7,359.0	82.00	333.80	6,875.2	5,999.2	-248.9	-396.7	-24.2	10.76	10.31	3.13
7,390.0	85.70	334.90	6,878.6	6,002.6	-221.1	-410.0	6.6	12.45	11.94	3.55
7,453.0	87.40	336.80	6,882.3	6,006.3	-163.7	-435.7	69.2	4.04	2.70	3.02
7,516.0	87.50	336.50	6,885.1	6,009.1	-105.9	-460.7	131.8	0.50	0.16	-0.48

LP/ Deepest Point of Well= 7679' MD(6887' TVD

7,579.0	89.30	337.10	6,886.9	6,010.9	-48.1	-485.5	194.5	3.01	2.86	0.95
7,642.0	91.00	336.90	6,886.7	6,010.7	9.9	-510.1	257.1	2.72	2.70	-0.32
7,705.0	90.20	335.70	6,886.1	6,010.1	67.6	-535.4	319.8	2.29	-1.27	-1.90
7,769.0	91.20	336.10	6,885.3	6,009.3	126.0	-561.6	383.5	1.68	1.56	0.63
7,832.0	90.80	333.20	6,884.2	6,008.2	182.9	-588.5	446.4	4.65	-0.63	-4.60
7,895.0	90.40	332.60	6,883.5	6,007.5	239.0	-617.2	509.4	1.14	-0.63	-0.95
7,958.0	90.10	331.80	6,883.3	6,007.3	294.7	-646.6	572.3	1.36	-0.48	-1.27
8,021.0	91.70	333.00	6,882.3	6,006.3	350.6	-675.8	635.3	3.17	2.54	1.90
8,085.0	93.90	333.40	6,879.2	6,003.2	407.6	-704.6	699.2	3.49	3.44	0.63
8,148.0	93.10	337.90	6,875.3	5,999.3	464.9	-730.5	761.8	7.24	-1.27	7.14
8,211.0	91.20	338.30	6,872.9	5,996.9	523.3	-754.0	824.3	3.08	-3.02	0.63
8,274.0	89.00	338.10	6,872.8	5,996.8	581.6	-777.4	886.7	3.51	-3.49	-0.32
8,338.0	88.90	338.30	6,874.0	5,998.0	641.2	-801.2	950.2	0.35	-0.16	0.31
8,401.0	91.00	338.60	6,874.1	5,998.1	699.8	-824.3	1,012.6	3.37	3.33	0.48

Phoenix Technologies
Survey Report

Database:	EDM 5000 - Single User Dr	Local Co-ordinate Reference:	Site: Wetzel County 513833
Company:	EQT Production - Genesis 2-04	TVD Reference:	KB @ 1.76 Usft
Project:	Wetzel County, WV	MD Reference:	KB @ 3.76 Usft
Site:	Wetzel County 513833	North Reference:	Grid
Well:	Well #513833	Survey Calculation Method:	Minimum Curvature
Wellbore:	Main Wellbore		
Design:	513833 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)	
8,464.0	90.90	339.10	6,873.0	5,997.0	758.6	-847.0	1,075.0	0.81	-0.16	0.79	
8,527.0	90.60	339.00	6,872.2	5,996.2	817.4	-869.6	1,137.4	0.50	-0.48	-0.16	
8,590.0	90.30	338.30	6,871.7	5,995.7	876.1	-892.5	1,199.8	1.21	-0.48	-1.11	
8,653.0	90.10	337.90	6,871.5	5,995.5	934.5	-916.0	1,262.3	0.71	-0.32	-0.63	
8,716.0	89.90	337.60	6,871.5	5,995.5	992.8	-939.8	1,324.8	0.57	-0.32	-0.48	
8,780.0	89.80	337.30	6,871.6	5,995.6	1,051.9	-964.4	1,388.4	0.49	-0.16	-0.47	
8,843.0	90.70	337.60	6,871.4	5,995.4	1,110.1	-988.5	1,451.0	1.51	1.43	0.48	
8,906.0	91.00	337.80	6,870.4	5,994.4	1,168.4	-1,012.5	1,513.5	0.57	0.48	0.32	
8,970.0	90.60	337.70	6,869.5	5,993.5	1,227.6	-1,036.7	1,577.1	0.64	-0.63	-0.16	
9,033.0	91.30	338.40	6,868.5	5,992.5	1,286.0	-1,060.2	1,639.6	1.57	1.11	1.11	
9,096.0	91.90	338.60	6,866.7	5,990.7	1,344.6	-1,083.3	1,702.0	1.00	0.95	0.32	
9,159.0	91.80	338.00	6,864.7	5,988.7	1,403.1	-1,106.6	1,764.4	0.97	-0.16	-0.95	
9,222.0	91.70	337.40	6,862.8	5,986.8	1,461.4	-1,130.5	1,826.9	0.97	-0.16	-0.95	
9,285.0	91.60	337.00	6,861.0	5,985.0	1,519.5	-1,154.9	1,889.5	0.65	-0.16	-0.63	
9,348.0	91.30	337.60	6,859.4	5,983.4	1,577.6	-1,179.2	1,952.1	1.06	-0.48	0.95	
9,411.0	91.00	338.10	6,858.1	5,982.1	1,635.9	-1,202.9	2,014.6	0.93	-0.48	0.79	
9,474.0	90.50	338.00	6,857.3	5,981.3	1,694.3	-1,226.5	2,077.1	0.81	-0.79	-0.16	
9,537.0	89.90	336.60	6,857.1	5,981.1	1,752.4	-1,250.8	2,139.7	2.42	-0.95	-2.22	
9,600.0	89.50	336.80	6,857.4	5,981.4	1,810.3	-1,275.7	2,202.4	0.71	-0.63	0.32	
9,664.0	89.50	336.20	6,857.9	5,981.9	1,869.0	-1,301.2	2,266.1	0.94	0.00	-0.94	
9,727.0	89.70	336.60	6,858.4	5,982.4	1,926.7	-1,326.5	2,328.8	0.71	0.32	0.63	
9,790.0	89.50	336.30	6,858.8	5,982.8	1,984.5	-1,351.6	2,391.5	0.57	-0.32	-0.48	
9,854.0	89.40	336.20	6,859.4	5,983.4	2,043.0	-1,377.4	2,455.2	0.22	-0.16	-0.16	
9,917.0	89.10	336.00	6,860.3	5,984.3	2,100.6	-1,402.9	2,517.9	0.57	-0.48	-0.32	
9,980.0	91.00	337.70	6,860.2	5,984.2	2,158.6	-1,427.7	2,580.6	4.05	3.02	2.70	
10,043.0	91.60	337.80	6,858.8	5,982.8	2,216.9	-1,451.5	2,643.1	0.97	0.95	0.16	
10,106.0	91.40	337.60	6,857.1	5,981.1	2,275.1	-1,475.4	2,705.6	0.45	-0.32	-0.32	
10,169.0	91.70	337.50	6,855.4	5,979.4	2,333.3	-1,499.5	2,768.2	0.50	0.48	-0.16	
10,232.0	90.90	337.70	6,854.0	5,978.0	2,391.6	-1,523.5	2,830.7	1.31	-1.27	0.32	
10,296.0	89.80	337.30	6,853.6	5,977.6	2,450.7	-1,548.0	2,894.3	1.83	-1.72	-0.63	
10,359.0	89.90	337.50	6,853.8	5,977.8	2,508.8	-1,572.2	2,956.9	0.35	0.16	0.32	
10,423.0	90.30	337.90	6,853.7	5,977.7	2,568.1	-1,596.5	3,020.4	0.88	0.63	0.63	
10,486.0	90.40	337.70	6,853.3	5,977.3	2,626.4	-1,620.3	3,083.0	0.35	0.16	-0.32	
10,549.0	90.20	337.20	6,852.9	5,976.9	2,684.6	-1,644.4	3,145.6	0.85	-0.32	-0.79	
10,612.0	90.20	337.20	6,852.7	5,976.7	2,742.6	-1,668.9	3,208.2	0.00	0.00	0.00	
10,676.0	90.40	337.40	6,852.4	5,976.4	2,801.7	-1,693.5	3,271.8	0.44	0.31	0.31	
10,739.0	90.40	337.30	6,852.0	5,976.0	2,859.8	-1,717.8	3,334.4	0.16	0.00	-0.16	
10,802.0	90.30	336.90	6,851.6	5,975.6	2,917.9	-1,742.3	3,397.0	0.65	-0.16	-0.63	
10,865.0	90.30	336.90	6,851.2	5,975.2	2,975.8	-1,767.0	3,459.6	0.00	0.00	0.00	
10,928.0	90.50	336.90	6,850.8	5,974.8	3,033.8	-1,791.8	3,522.3	0.32	0.32	0.00	
10,991.0	90.40	337.20	6,850.3	5,974.3	3,091.8	-1,816.3	3,584.9	0.50	-0.16	0.48	
11,055.0	90.20	336.90	6,850.0	5,974.0	3,150.7	-1,841.3	3,648.5	0.56	-0.31	-0.47	

Phoenix Technologies
Survey Report

Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference: Site Wetzel County 513833
Company: EQT Production - Genesee Shale	TVD Reference: KB @ 876.0usft
Project: Wetzel County, WV	MD Reference: KB @ 876.0usft
Site: Wetzel County 513833	North Reference: Grid
Well: Well #513833	Survey Calculation Method: Minimum Curvature
Wellbore: Main Wellbore	
Design: 513833 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)
11,118.0	89.90	336.80	6,849.9	5,973.9	3,208.6	-1,866.0	3,711.2	0.50	-0.48	-0.16
11,181.0	90.10	337.50	6,849.9	5,973.9	3,266.7	-1,890.5	3,773.8	1.16	0.32	1.11
11,245.0	89.90	337.50	6,849.9	5,973.9	3,325.8	-1,915.0	3,837.4	0.31	-0.31	0.00
11,307.0	89.50	336.90	6,850.2	5,974.2	3,383.0	-1,939.0	3,899.0	1.16	-0.65	-0.97
11,370.0	90.10	337.20	6,850.5	5,974.5	3,441.0	-1,963.6	3,961.6	1.06	0.95	0.48
11,434.0	90.50	337.40	6,850.1	5,974.1	3,500.0	-1,988.3	4,025.2	0.70	0.63	0.31
11,497.0	90.30	337.00	6,849.7	5,973.7	3,558.1	-2,012.7	4,087.8	0.71	-0.32	-0.63
11,560.0	90.00	336.30	6,849.5	5,973.5	3,615.9	-2,037.7	4,150.5	1.21	-0.48	-1.11
11,623.0	90.10	336.00	6,849.5	5,973.5	3,673.6	-2,063.1	4,213.2	0.50	0.16	-0.48
Final Survey = 11677' MD/6849' TVD										
11,677.0	90.20	336.20	6,849.3	5,973.3	3,722.9	-2,085.0	4,267.0	0.41	0.19	0.37
Projection to TD = 11732' MD/6849' TVD										
11,732.0	90.20	336.20	6,849.1	5,973.1	3,773.3	-2,107.2	4,321.8	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,050.0	5,048.7	-43.2	-1.2	Gyro Tie In= 5050' MD
7,579.0	6,886.9	-48.1	-485.5	LP/ Deepest Point of Well= 7579' MD/6887' TVD
11,677.0	6,849.3	3,722.9	-2,085.0	Final Survey= 11677' MD/6849' TVD
11,732.0	6,849.1	3,773.3	-2,107.2	Projection to TD= 11732' MD/6849' TVD

Checked By: _____ Approved By: _____ Date: _____

EQT Production - Genesen Shale

Project: Wetzel County, WV
Site: Wetzel County 513833
Well: Well #513833
Wellbore: Main Wellbore
Design: 513833 As Drilled Surveys

