



ANTERO RESOURCES CORPORATION

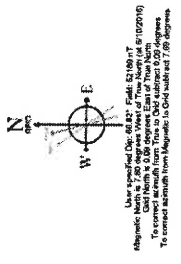
Location: Tyler County, WV
Field: Tyler
Facility: Data Pad
Well: Rymer Unit 1H ST01
Wellbore: Rymer Unit 1H ST01 PWB



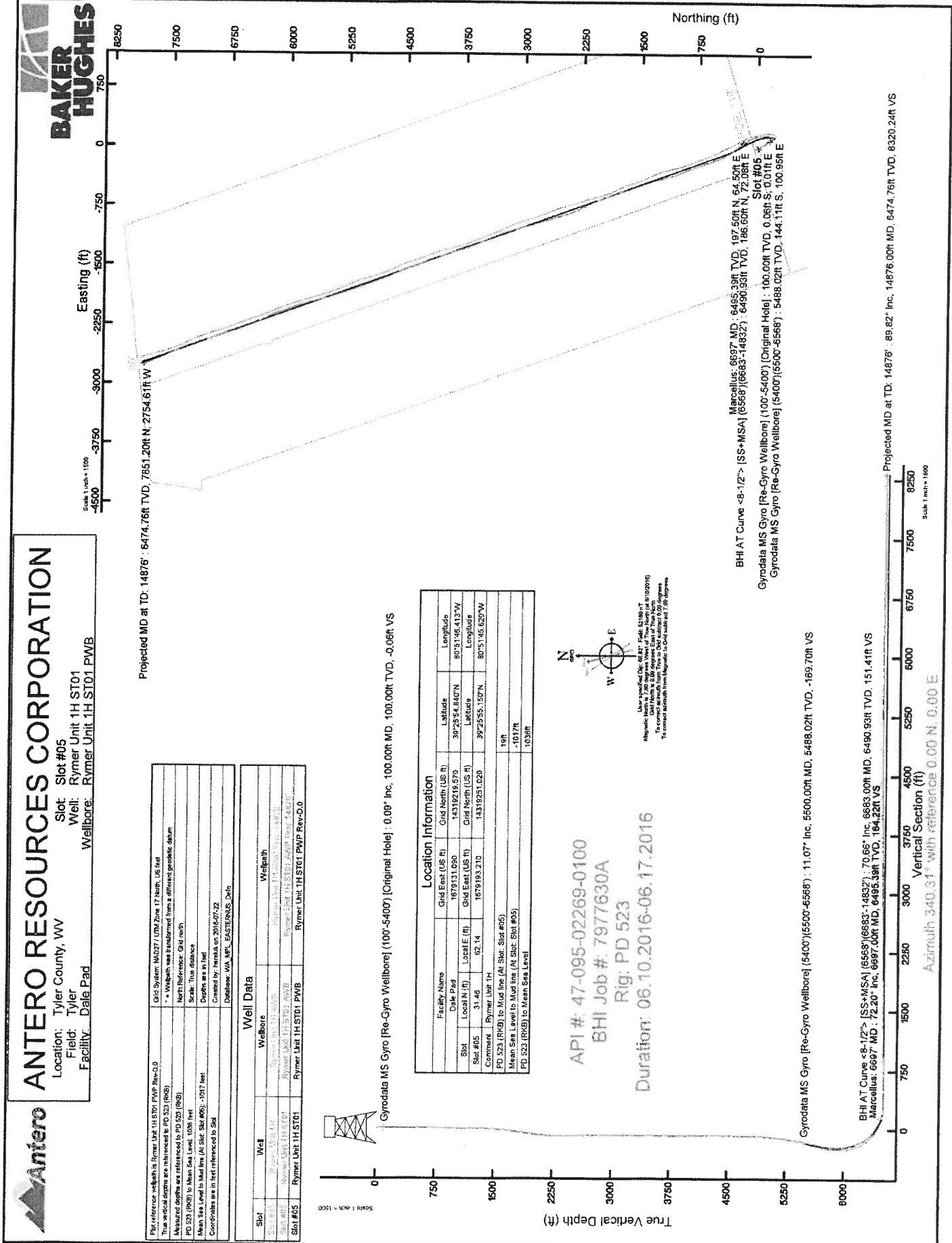
Well	Wellbore	Wellbore
Slot #05	Rymer Unit 1H ST01 PWB	Rymer Unit 1H ST01 PWB Rev-0.0
Created by:	hrc	2016-07-22
Database:	WV_BPT_EASTERNUS_Dept	

Well Data	
Grid System:	NA2011 UTM Zone 17 North, US Feet
North Reference:	Grid North
Scale:	True distance
Depth:	as in feet

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Date Prod	1879131.020	14319219.570	80°51'46.413°W
Slot	Local E (ft)	Grid North (US ft)	Longitude
Slot #05	31.45	1519193.210	80°51'46.620°W
Comments:	02.14	14319251.020	
Comment 1: Rymer Unit 1H			
PD 523 (RWB) to Mud line (At Slot #05)			
Mean Sea Level to Mud line (At Slot #05)			
PD 523 (RWB) to Mean Sea Level			



API #: 47-095-02269-0100
BHI Job #: 7977630A
Rig: PD 523
Duration: 06.10.2016-06.17.2016



Vertical Section (ft)
Azimuth 340.31° with reference 0.00 N, 0.00 E

Projected MD at TD: 14876' : 6474.76ft TVD, 7851.20ft N, 2754.61ft W

Gyrodota MS Gyro [Re-Gyro Wellbore] (100-5400') [Original Hole] : 100.00ft TVD, 0.05ft S, 0.01ft E
Slot #05
Gyrodota MS Gyro Wellbore] (5400') [5500'-6568'] : 5488.02ft TVD, 144.11ft S, 100.95ft E

Gyrodota MS Gyro [Re-Gyro Wellbore] (5400') [5500'-6568'] : 11.07° Inc, 5500.00ft MD, 5488.02ft TVD, -169.70ft VS

BHI AT Curve <8-1/2'> [SS+MSA] (6568') [6683'-14832'] : 70.66° Inc, 6683.00ft MD, 6490.93ft TVD, -151.41ft VS
Marcellus: 6697' MD : 72.20° Inc, 6997.00ft MD, 6495.39ft TVD, -164.23ft VS

Projected MD at TD: 14876' : 6474.76ft TVD, 7851.20ft N, 2754.61ft W

Gyrodota MS Gyro [Re-Gyro Wellbore] (100-5400') [Original Hole] : 100.00ft TVD, 0.05ft S, 0.01ft E
Slot #05
Gyrodota MS Gyro Wellbore] (5400') [5500'-6568'] : 5488.02ft TVD, 144.11ft S, 100.95ft E

Gyrodota MS Gyro [Re-Gyro Wellbore] (5400') [5500'-6568'] : 11.07° Inc, 5500.00ft MD, 5488.02ft TVD, -169.70ft VS

BHI AT Curve <8-1/2'> [SS+MSA] (6568') [6683'-14832'] : 70.66° Inc, 6683.00ft MD, 6490.93ft TVD, -151.41ft VS
Marcellus: 6697' MD : 72.20° Inc, 6997.00ft MD, 6495.39ft TVD, -164.23ft VS



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Dale Pad	Side-track from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Hareluk
Scale	0.999602	Report Generated	7/22/2016 at 10:23:13 AM
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EASTERNUS_Defini/Rymer_Unit_1H_ST01_AWP_Proj_14876_.xml

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	31.46	62.14	1679193.21	14319251.02	39°25'55.150"N	80°51'45.620"W
Facility Reference Pt			1679131.09	14319219.57	39°25'54.840"N	80°51'46.413"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM	
Calculation method	PD 523 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	PD 523 (RKB) to Mean Sea Level
Vertical Reference Pt	PD 523 (RKB) to Mud Line at Slot (Slot #05)
MD Reference Pt	Section Origin
Field Vertical Reference	Section Azimuth
	19.00ft
	1036.00ft
	19.00ft
	N 0.00, E 0.00 ft
	340.31°



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Date Pad	Sidetrack from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH DATA (167 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [ft/100ft]	Comments
0.00	0.00	166.640	0.00	0.00	0.00	0.00	1679193.21	14319251.02	39°25'55.150"N	80°51'45.620"W	0.00	0.000	0.00	0.00	0.00	
19.00	0.00	166.640	19.00	0.00	0.00	0.00	1679193.21	14319251.02	39°25'55.150"N	80°51'45.620"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.00	166.640	100.00	-0.06	-0.06	0.01	1679193.22	14319250.96	39°25'55.149"N	80°51'45.620"W	0.06	166.640	0.11	0.11	205.73	Gyrodatta MS Gyro [Re-Gyro Wellbore] (100'-5400')
200.00	0.030	8.760	200.00	-0.12	-0.11	0.04	1679193.25	14319250.91	39°25'55.149"N	80°51'45.621"W	0.09	223.137	0.12	0.09	-87.45	
300.00	0.120	281.310	300.00	-0.04	-0.07	-0.06	1679193.15	14319250.95	39°25'55.149"N	80°51'45.621"W	0.24	242.918	0.11	-0.03	-84.38	
400.00	0.090	21.930	400.00	-0.03	-0.11	-0.21	1679193.00	14319250.91	39°25'55.149"N	80°51'45.623"W	0.36	228.531	0.04	-0.01	-26.73	
500.00	0.089	190.200	500.00	-0.13	-0.24	-0.27	1679192.94	14319250.78	39°25'55.148"N	80°51'45.600"W	3.38	152.808	0.55	0.54	4.29	
600.00	1.060	144.000	589.99	-1.08	-1.06	0.26	1679193.47	14319249.96	39°25'55.140"N	80°51'45.617"W	1.09	166.176	1.01	0.98	-46.20	
700.00	1.600	148.290	699.97	-3.34	-2.99	1.54	1679194.75	14319248.03	39°25'55.120"N	80°51'45.600"W	6.22	150.725	0.08	0.08	-0.03	
800.00	1.680	148.260	799.93	-6.13	-5.43	3.04	1679196.25	14319248.50	39°25'55.096"N	80°51'45.581"W	9.14	150.260	0.06	-0.01	2.03	
900.00	1.670	150.290	899.88	-9.00	-7.94	4.54	1679197.74	14319243.08	39°25'55.072"N	80°51'45.562"W	10.83	147.029	1.38	-1.30	-34.90	
1000.00	0.370	115.390	999.87	-10.67	-9.34	5.55	1679198.76	14319241.88	39°25'55.058"N	80°51'45.545"W	9.88	144.053	0.29	0.24	-16.19	
1100.00	0.460	7.770	1099.86	-10.54	-9.08	5.86	1679199.07	14319241.94	39°25'55.060"N	80°51'45.549"W	10.83	147.029	1.38	-1.30	-34.90	
1200.00	0.700	351.580	1199.86	-9.58	-8.08	5.86	1679199.07	14319241.94	39°25'55.060"N	80°51'45.549"W	10.83	147.029	1.38	-1.30	-34.90	
1300.00	0.680	98.620	1298.85	-9.27	-7.57	6.36	1679199.57	14319243.46	39°25'55.075"N	80°51'45.539"W	12.42	135.740	1.85	1.75	27.08	
1400.00	2.430	125.700	1399.81	-11.29	-8.89	8.67	1679201.87	14319242.13	39°25'55.062"N	80°51'45.510"W	12.42	135.740	1.85	1.75	27.08	
1500.00	4.790	162.610	1499.61	-16.51	-12.62	13.74	1679206.94	14319238.40	39°25'55.025"N	80°51'45.445"W	18.68	132.568	2.36	2.36	0.91	
1600.00	6.560	134.610	1599.12	-25.13	-19.12	21.15	1679214.35	14319231.91	39°25'54.961"N	80°51'45.351"W	28.51	132.105	1.93	1.76	8.00	
1700.00	7.920	138.870	1698.32	-36.68	-28.31	28.75	1679222.94	14319222.72	39°25'54.870"N	80°51'45.241"W	41.06	133.586	1.47	1.37	4.26	
1800.00	8.720	140.190	1797.27	-50.21	-39.32	39.13	1679232.32	14319211.71	39°25'54.761"N	80°51'45.122"W	55.48	135.142	0.82	0.80	1.32	
1900.00	7.730	145.450	1896.24	-63.83	-50.69	47.80	1679240.99	14319200.35	39°25'54.648"N	80°51'45.012"W	69.67	136.680	1.24	-0.99	5.26	
2000.00	7.870	147.530	1996.31	-77.00	-62.00	55.29	1679248.48	14319189.04	39°25'54.536"N	80°51'44.917"W	83.07	138.276	0.32	0.14	2.08	
2100.00	7.110	143.920	2094.46	-89.82	-72.78	62.61	1679255.79	14319170.48	39°25'54.353"N	80°51'44.824"W	96.00	139.297	0.89	-0.76	-3.61	
2200.00	4.020	142.750	2193.98	-98.90	-80.57	68.38	1679261.56	14319158.27	39°25'54.282"N	80°51'44.750"W	105.68	139.682	3.09	-3.09	-1.17	
2300.00	2.350	163.670	2293.82	-104.29	-85.33	71.07	1679263.78	14319165.72	39°25'54.306"N	80°51'44.716"W	111.05	140.209	2.01	-1.67	20.92	
2400.00	1.300	248.300	2393.78	-106.38	-87.72	70.60	1679266.34	14319163.34	39°25'54.282"N	80°51'44.722"W	112.60	141.173	2.58	-1.05	84.67	
2500.00	2.950	110.710	2493.72	-104.18	-86.46	67.59	1679260.77	14319164.60	39°25'54.295"N	80°51'44.760"W	109.74	141.983	2.61	1.65	62.37	
2600.00	3.540	91.320	2593.56	-89.19	-82.67	53.39	1679256.57	14319168.39	39°25'54.332"N	80°51'44.814"W	104.17	142.519	0.61	0.59	2.49	
2700.00	1.270	257.130	2693.48	-96.31	-80.80	60.06	1679253.24	14319170.25	39°25'54.351"N	80°51'44.856"W	100.68	143.377	3.02	-2.27	-56.07	
2800.00	1.150	250.740	2793.45	-96.17	-81.38	58.93	1679251.22	14319169.67	39°25'54.345"N	80°51'44.882"W	99.95	144.507	0.18	-0.12	-6.39	



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Daile Pad	Sidetrack from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH DATA (167 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [ft/100ft]	Comments
2900.00	0.46	235.91	2893.44	-66.26	-81.93	56.75	1679249.94	14319169.12	39°25'54.339"N	80°51'44.898"W	98.67	145.292	0.72	-0.69	-14.83	
3000.00	0.25	202.70	2993.44	-96.50	-82.35	56.31	1679249.48	14319168.71	39°25'54.335"N	80°51'44.904"W	99.76	145.637	0.26	-0.21	-25.21	
3100.00	0.25	208.89	3093.44	-96.79	-82.72	56.09	1679249.28	14319168.33	39°25'54.332"N	80°51'44.907"W	99.95	145.862	0.01	0.00	-1.81	
3200.00	0.88	84.62	3193.44	-97.12	-82.84	56.75	1679249.94	14319168.21	39°25'54.330"N	80°51'44.898"W	100.42	145.588	1.04	0.63	124.27	
3300.00	0.95	73.96	3293.42	-97.36	-82.54	58.31	1679251.50	14319168.51	39°25'54.333"N	80°51'44.879"W	101.06	144.762	0.18	0.07	-10.66	
3400.00	0.97	63.67	3393.41	-97.32	-81.94	59.87	1679253.05	14319169.11	39°25'54.339"N	80°51'44.859"W	101.48	143.848	0.17	0.02	-10.29	
3500.00	0.96	55.39	3493.40	-97.00	-81.09	61.31	1679254.50	14319169.97	39°25'54.348"N	80°51'44.840"W	101.66	142.905	0.14	-0.01	-8.28	
3600.00	0.86	48.35	3593.38	-96.51	-80.11	62.56	1679255.76	14319170.94	39°25'54.357"N	80°51'44.824"W	101.65	142.012	0.15	-0.10	-7.04	
3700.00	0.72	33.71	3693.37	-95.85	-79.09	63.47	1679256.66	14319173.91	39°25'54.367"N	80°51'44.813"W	101.41	141.252	0.24	-0.14	-14.64	
3800.00	0.63	16.40	3793.37	-95.03	-78.04	63.98	1679257.16	14319173.01	39°25'54.378"N	80°51'44.806"W	100.91	140.655	0.22	-0.09	-17.31	
3900.00	0.50	35.41	3893.36	-94.17	-77.08	64.09	1679258.97	14319174.72	39°25'54.387"N	80°51'44.805"W	100.24	140.257	0.25	-0.13	-21.99	
4000.00	0.47	31.19	3993.36	-93.36	-76.33	63.78	1679258.87	14319174.72	39°25'54.395"N	80°51'44.809"W	99.47	140.118	0.29	-0.03	-34.65	
4100.00	0.50	288.44	4093.36	-92.71	-75.88	63.10	1679256.29	14319175.17	39°25'54.399"N	80°51'44.817"W	98.69	140.263	0.26	0.03	-31.32	
4200.00	0.59	276.80	4193.35	-92.21	-75.68	62.18	1679255.36	14319175.37	39°25'54.401"N	80°51'44.829"W	97.95	140.594	0.14	0.09	-11.64	
4300.00	0.77	277.23	4293.34	-91.67	-75.54	61.00	1679254.19	14319175.51	39°25'54.403"N	80°51'44.844"W	97.09	141.077	0.18	0.18	0.43	
4400.00	1.11	268.62	4393.33	-91.06	-75.48	59.37	1679252.55	14319175.57	39°25'54.403"N	80°51'44.865"W	96.02	141.813	0.37	0.34	-8.61	
4500.00	1.10	217.20	4493.31	-91.29	-76.27	57.81	1679251.00	14319174.78	39°25'54.395"N	80°51'44.885"W	95.70	142.838	0.96	0.00	-51.42	
4600.00	1.44	203.54	4593.29	-92.73	-78.19	56.72	1679249.91	14319172.86	39°25'54.376"N	80°51'44.899"W	96.60	144.042	0.45	0.33	-13.66	
4700.00	0.61	172.07	4693.27	-94.17	-79.87	56.30	1679249.48	14319171.18	39°25'54.360"N	80°51'44.904"W	97.72	144.823	0.97	-0.83	-31.47	
4800.00	1.97	96.39	4793.25	-95.45	-80.58	58.08	1679251.26	14319170.46	39°25'54.353"N	80°51'44.881"W	98.34	144.222	1.91	1.36	-75.68	
4900.00	3.12	18.31	4893.15	-98.23	-82.07	62.18	1679255.37	14319168.98	39°25'54.338"N	80°51'44.829"W	102.97	142.851	1.49	1.15	21.92	
5000.00	4.94	37.41	4992.91	-104.21	-86.53	67.49	1679260.68	14319164.52	39°25'54.294"N	80°51'44.762"W	109.74	142.048	2.24	1.82	19.10	
5100.00	5.41	101.41	5092.50	-112.63	-93.38	73.36	1679272.14	14319157.68	39°25'54.226"N	80°51'44.687"W	118.75	141.844	0.58	0.47	3.74	
5200.00	5.93	149.23	5192.01	-122.16	-101.49	78.96	1679276.54	14319149.58	39°25'54.146"N	80°51'44.616"W	128.59	142.114	0.95	0.52	8.08	
5300.00	8.33	153.19	5291.27	-134.42	-112.39	84.87	1679278.05	14319136.67	39°25'54.038"N	80°51'44.541"W	140.84	142.941	2.45	2.40	3.96	
5400.00	10.79	152.26	5389.93	-150.87	-127.14	92.50	1679285.67	14319123.93	39°25'53.892"N	80°51'44.444"W	157.23	143.963	2.46	2.46	-0.93	
5500.00	11.07	154.78	5488.02	-169.70	-144.11	100.95	1679299.12	14319106.96	39°25'53.724"N	80°51'44.336"W	175.95	144.990	0.55	0.28	2.52	Gyrodata MS Gyro [Re-Gyro Wellbore] [5400'] [55]
5600.00	10.38	152.40	5586.27	-188.16	-160.78	109.21	1679302.38	14319090.30	39°25'53.559"N	80°51'44.231"W	194.37	145.814	0.82	-0.69	-2.38	
5700.00	10.90	144.30	5684.56	-206.19	-176.44	118.90	1679312.07	14319074.65	39°25'53.404"N	80°51'44.108"W	212.77	146.025	1.58	0.52	-8.10	
5800.00	10.04	143.07	5782.89	-223.80	-191.09	129.88	1679322.92	14319060.01	39°25'53.259"N	80°51'43.971"W	230.93	145.843	0.69	-0.66	-1.23	



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Date Pad	Sidetrack from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH DATA (167 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [Dir]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
5900.00	5.050	88.650	5882.10	-233.33	-197.97	139.31	1679332.47	14319053.13	39°25'53.191"N	80°51'43.848"W	242.07	144.665	8.19	-4.99	-54.42	
5000.00	8.420	28.920	5981.50	-229.87	-191.45	147.26	1679340.41	14319059.65	39°25'53.256"N	80°51'43.747"W	241.53	142.432	7.31	3.37	-59.73	
5100.00	16.450	8.120	6079.12	-212.47	-170.98	152.82	1679345.96	14319080.11	39°25'53.458"N	80°51'43.676"W	229.32	138.211	9.07	8.03	-20.80	
5182.00†	22.487	11.863	6156.40	-188.81	-144.11	157.68	1679350.83	14319106.97	39°25'53.723"N	80°51'43.613"W	213.62	132.425	7.51	7.36	4.56	Sycamore: 6182' MD
5200.00	23.820	12.440	6172.85	-182.80	-137.19	159.17	1679352.32	14319113.88	39°25'53.792"N	80°51'43.594"W	210.14	130.758	7.51	7.41	3.20	
5300.00	31.910	1.980	6261.34	-141.05	-90.96	164.45	1679357.59	14319160.10	39°25'54.249"N	80°51'43.526"W	187.93	118.947	9.43	8.09	-10.46	
5390.00†	41.681	151.957	6333.38	-89.46	-37.38	161.07	1679354.22	14319213.66	39°25'54.778"N	80°51'43.566"W	165.35	103.064	12.71	10.86	-11.14	Middlesex: 6390' MD
5400.00	42.810	351.090	6340.79	-82.87	-30.73	160.08	1679353.23	14319220.31	39°25'54.844"N	80°51'43.680"W	163.00	100.866	12.71	11.29	-8.67	
5500.00	53.940	843.950	6407.15	-8.86	41.97	143.58	1679336.73	14319292.97	39°25'55.563"N	80°51'43.789"W	149.59	73.707	12.33	11.13	-7.14	
5538.00†	57.795	339.085	6428.48	22.56	71.77	133.59	1679328.74	14319322.78	39°25'55.857"N	80°51'43.916"W	151.65	61.753	14.66	10.14	-12.78	Burkett: 6538' MD
5568.00	60.960	335.540	6443.76	48.33	95.57	123.62	1679316.78	14319346.56	39°25'56.093"N	80°51'44.043"W	156.26	52.292	14.66	10.55	-11.83	
5610.00†	64.429	831.802	6463.03	85.33	128.00	107.06	1679300.23	14319379.97	39°25'56.423"N	80°51'44.253"W	167.64	39.690	11.43	8.26	-8.90	Tully: 6610' MD
5683.00	70.660	325.790	6490.93	151.41	186.60	72.08	1679285.26	14319437.55	39°25'56.993"N	80°51'44.698"W	200.04	21.120	11.43	8.54	-8.24	BH AT Curve <8-1/2"> [SS+MSA] (6568)(6683
5697.00†	72.195	824.566	6495.39	164.22	197.50	64.50	1679257.69	14319448.44	39°25'57.101"N	80°51'44.794"W	207.76	18.087	13.67	10.97	-8.60	Marcellus: 6697' MD
5772.00	81.650	319.420	6512.65	233.30	254.72	19.38	1679212.59	14319505.64	39°25'57.667"N	80°51'45.368"W	255.46	4.351	14.85	13.70	-5.84	
5862.00	89.940	327.080	6519.25	318.98	326.54	-34.21	1679159.02	14319577.43	39°25'58.378"N	80°51'46.050"W	328.33	354.020	12.52	9.21	8.51	
5952.00	90.300	328.930	6519.06	406.91	402.89	-81.85	1679111.39	14319653.75	39°25'59.133"N	80°51'46.655"W	411.12	348.516	2.16	0.40	2.12	
7041.00	90.840	335.740	6518.33	495.01	481.69	-123.11	1679070.15	14319732.52	39°25'59.913"N	80°51'47.180"W	497.18	345.663	7.59	0.38	7.58	
7131.00	90.510	339.920	6517.43	584.90	565.02	-157.06	1679036.21	14319815.81	39°26'00.737"N	80°51'47.611"W	585.44	344.465	4.65	-0.14	4.84	
7221.00	90.630	341.840	6516.53	674.88	650.04	-186.54	1679006.75	14319900.80	39°26'01.578"N	80°51'47.985"W	676.28	343.989	2.14	0.13	2.13	
7310.00	90.420	339.880	6515.72	763.87	734.11	-215.72	1678977.58	14319984.84	39°26'02.409"N	80°51'48.355"W	765.15	343.625	2.21	-0.24	-2.20	
7400.00	90.420	340.400	6515.06	853.87	818.76	-246.29	1678947.02	14320069.45	39°26'03.246"N	80°51'48.743"W	855.00	343.258	0.58	0.00	0.58	
7489.00	90.460	338.680	6514.37	942.86	902.14	-277.39	1678915.93	14320152.80	39°26'04.070"N	80°51'49.138"W	943.83	342.908	1.92	0.04	-1.92	
7578.00	90.520	338.260	6513.91	1031.81	984.93	-310.04	1678885.29	14320235.56	39°26'04.889"N	80°51'49.552"W	1032.58	342.527	0.49	0.07	-0.48	
7668.00	90.520	341.760	6512.79	1121.79	1069.50	-340.79	1678852.66	14320320.09	39°26'05.725"N	80°51'49.943"W	1122.48	342.326	3.91	0.00	3.91	
7757.00	90.360	344.770	6512.11	1210.66	1154.72	-366.40	1678828.96	14320405.28	39°26'06.568"N	80°51'50.267"W	1211.46	342.395	3.36	-0.18	3.36	
7847.00	90.870	344.360	6511.30	1300.40	1241.47	-390.35	1678803.91	14320491.99	39°26'07.426"N	80°51'50.571"W	1301.39	342.545	0.57	0.34	-0.46	
7936.00	90.580	342.930	6510.33	1389.24	1326.86	-415.41	1678777.97	14320577.35	39°26'08.270"N	80°51'50.889"W	1390.37	342.616	1.61	-0.10	-1.61	
8026.00	90.630	342.580	6509.38	1479.16	1412.81	-442.09	1678751.30	14320663.27	39°26'09.120"N	80°51'51.227"W	1480.37	342.624	0.39	0.06	-0.39	



Actual Wellpath Report
Rymer Unit 1H ST01 AWP Proj: 14876'

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REFERENCE WELLPATH IDENTIFICATION		Slot #05
Operator	ANTERO RESOURCES CORPORATION	Rymer Unit 1H ST01
Area	Tyler County, WV	Rymer Unit 1H ST01 AWP
Field	Tyler	
Facility	Date Pad	Sidetrack from Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH DATA (167 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
8115.00	90.910	341.960	6508.18	1568.10	1497.58	-469.19	1678724.21	14320748.00	39°26'09.958"N	80°51'51.571"W	1659.38	342.604	0.76	0.31	-0.70	
8205.00	90.510	340.320	6507.07	1659.08	1582.73	-498.28	1678695.13	14320833.12	39°26'10.800"N	80°51'51.940"W	1659.32	342.525	1.88	-0.44	-1.82	
8284.00	90.790	339.950	6506.06	1747.07	1666.43	-528.52	1678664.90	14320816.79	39°26'11.628"N	80°51'52.324"W	1748.24	342.403	0.52	0.31	-0.42	
8394.00	90.480	343.190	6505.06	1837.03	1751.80	-556.97	1678636.46	14321002.12	39°26'12.472"N	80°51'52.685"W	1838.21	342.362	3.62	-0.34	3.60	
8473.00	91.280	344.000	6503.89	1925.87	1837.17	-582.10	1678611.34	14321087.45	39°26'13.316"N	80°51'53.003"W	1927.18	342.419	1.28	0.90	0.91	
8563.00	90.970	337.470	6501.93	2015.80	1922.06	-611.77	1678581.68	14321172.31	39°26'14.156"N	80°51'53.380"W	2017.08	342.344	7.28	-0.34	-7.28	
8653.00	90.750	339.170	6500.57	2105.74	2005.68	-645.02	1678548.45	14321255.90	39°26'14.983"N	80°51'53.802"W	2106.85	342.172	1.90	-0.24	1.89	
8742.00	90.940	336.320	6499.26	2194.63	2088.04	-678.72	1678514.76	14321338.22	39°26'15.797"N	80°51'54.230"W	2195.58	341.993	3.21	0.21	-3.20	
8832.00	90.860	335.220	6497.83	2284.33	2170.10	-715.65	1678477.85	14321420.25	39°26'16.608"N	80°51'54.699"W	2285.05	341.749	1.22	-0.07	-1.22	
8921.00	90.810	333.680	6496.52	2372.85	2250.35	-754.10	1678439.41	14321500.47	39°26'17.463"N	80°51'55.188"W	2373.34	341.474	1.84	-0.08	-1.84	
9100.00	90.970	339.120	6493.86	2462.46	2331.96	-792.00	1678401.52	14321582.04	39°26'18.210"N	80°51'55.669"W	2462.78	341.241	3.34	0.00	3.34	
9190.00	90.870	342.130	6492.42	2641.33	2499.26	-855.40	1678338.16	14321749.28	39°26'19.864"N	80°51'56.095"W	2551.61	341.123	2.85	0.18	2.84	
9279.00	90.840	344.570	6491.09	2730.19	2584.51	-880.89	1678312.67	14321834.49	39°26'20.707"N	80°51'56.797"W	2641.59	341.106	3.35	-0.11	3.34	
9369.00	90.840	343.480	6489.77	2819.98	2671.02	-905.66	1678287.91	14321920.97	39°26'21.562"N	80°51'57.111"W	2730.50	341.179	2.74	0.00	-2.74	
9459.00	90.960	342.630	6488.36	2909.87	2757.10	-931.89	1678261.70	14322007.02	39°26'22.414"N	80°51'57.444"W	2820.39	341.270	1.21	0.00	-1.21	
9548.00	90.870	343.850	6487.25	2998.75	2842.31	-957.55	1678236.04	14322092.20	39°26'23.256"N	80°51'57.770"W	2910.33	341.325	0.95	0.13	-0.94	
9638.00	90.870	343.530	6486.19	3088.59	2928.69	-982.82	1678210.78	14322178.53	39°26'24.110"N	80°51'58.080"W	2999.27	341.382	1.48	-0.55	1.37	
9727.00	90.900	344.260	6484.82	3177.40	3014.18	-1007.51	1678186.11	14322264.00	39°26'24.966"N	80°51'58.403"W	3089.20	341.449	0.57	0.44	-0.36	
9817.00	90.810	344.420	6483.48	3267.17	3100.83	-1031.80	1678161.83	14322350.61	39°26'25.812"N	80°51'58.711"W	3178.11	341.518	0.82	0.03	0.82	
9906.00	90.990	343.780	6482.08	3355.96	3186.42	-1056.18	1678137.46	14322436.16	39°26'26.659"N	80°51'59.020"W	3267.98	341.595	0.20	-0.10	0.16	
9996.00	90.870	340.880	6480.62	3445.89	3272.15	-1083.49	1678110.16	14322521.86	39°26'27.506"N	80°51'59.367"W	3356.90	341.662	0.75	0.20	-0.72	
10086.00	91.050	338.360	6479.11	3535.86	3358.50	-1114.82	1678078.83	14322606.17	39°26'28.340"N	80°51'59.764"W	3446.87	341.679	3.22	-0.13	-3.22	
10176.00	90.840	335.650	6477.63	3625.68	3439.29	-1150.05	1678043.62	14322688.94	39°26'29.159"N	80°52'00.212"W	3536.79	341.627	2.81	0.20	-2.80	
10265.00	90.740	336.900	6476.40	3714.45	3520.73	-1186.92	1678007.76	14322770.34	39°26'29.965"N	80°52'00.668"W	3626.48	341.511	3.13	-0.23	-3.12	
10355.00	90.760	337.830	6475.20	3804.32	3603.79	-1220.56	1677973.14	14322853.37	39°26'30.786"N	80°52'01.107"W	3715.10	341.384	1.52	-0.11	1.52	
10445.00	90.900	337.570	6473.88	3894.22	3687.11	-1254.87	1677939.14	14322936.65	39°26'31.610"N	80°52'01.539"W	3804.87	341.289	1.03	0.04	1.03	
10534.00	90.930	340.570	6472.46	3983.18	3770.26	-1286.22	1677907.90	14323019.77	39°26'32.432"N	80°52'01.941"W	3894.70	341.209	0.16	0.13	-0.09	
10623.00	90.930	345.720	6471.02	4072.03	3855.40	-1312.03	1677881.71	14323104.88	39°26'33.274"N	80°52'02.269"W	3983.63	341.163	3.17	0.03	3.17	
10713.00	90.810	343.160	6469.65	4161.78	3942.08	-1336.16	1677857.59	14323191.53	39°26'34.113"N	80°52'02.575"W	4072.53	341.206	5.79	0.00	5.79	
											4162.37	341.276	2.85	-0.13	-2.84	



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Date Pad	Sidetrack from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH DATA (167 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
10802.00	90.870	337.360	6468.35	4250.73	4025.82	-1366.19	1677827.57	14323275.22	39°26'34.959"N	80°52'02.956"W	4251.31	341.255	6.49	0.07	-6.49	
10892.00	90.870	336.210	6466.98	4340.55	4108.52	-1401.69	1677792.13	14323357.90	39°26'35.777"N	80°52'03.406"W	4341.03	341.163	1.30	0.00	-1.30	
10982.00	90.930	342.810	6465.58	4430.48	4192.77	-1433.13	1677760.66	14323442.11	39°26'36.610"N	80°52'03.806"W	4430.94	341.129	7.33	0.07	7.33	
11071.00	90.840	343.680	6464.18	4519.36	4277.98	-1458.78	1677735.01	14323527.29	39°26'37.453"N	80°52'04.131"W	4519.87	341.171	0.98	-0.10	0.98	
11161.00	90.870	341.080	6462.85	4609.28	4363.75	-1488.01	1677707.79	14323613.02	39°26'38.301"N	80°52'04.477"W	4609.83	341.194	2.88	0.03	-2.88	
11250.00	90.370	339.370	6461.88	4698.27	4447.49	-1516.11	1677677.70	14323696.73	39°26'39.129"N	80°52'04.859"W	4698.81	341.176	2.01	-0.56	-1.93	
11340.00	90.040	338.910	6461.56	4788.25	4531.59	-1548.16	1677645.67	14323780.80	39°26'39.961"N	80°52'05.266"W	4788.75	341.138	0.63	-0.37	-0.51	
11430.00	89.760	337.310	6461.72	4878.18	4615.70	-1581.71	1677612.13	14323864.27	39°26'40.787"N	80°52'05.692"W	4878.62	341.082	1.80	-0.31	-1.78	
11519.00	89.820	337.390	6462.04	4967.06	4697.24	-1615.99	1677577.87	14323946.38	39°26'41.599"N	80°52'06.127"W	4967.44	341.015	0.11	0.07	0.09	
11609.00	89.970	338.420	6462.21	5056.98	4780.62	-1649.84	1677544.03	14324029.73	39°26'42.423"N	80°52'06.567"W	5057.31	340.960	1.16	0.17	1.14	
11698.00	89.760	339.190	6462.42	5145.95	4863.60	-1682.02	1677511.87	14324112.68	39°26'43.244"N	80°52'06.966"W	5146.24	340.923	0.90	-0.24	0.87	
11788.00	89.790	339.410	6462.77	5235.93	4947.79	-1713.83	1677480.07	14324196.83	39°26'44.077"N	80°52'07.370"W	5236.21	340.885	0.25	0.03	0.24	
11877.00	89.730	339.880	6463.14	5324.93	5031.23	-1744.79	1677449.12	14324280.24	39°26'44.902"N	80°52'07.763"W	5325.19	340.874	0.53	-0.07	0.53	
11967.00	89.820	340.800	6463.50	5414.93	5115.99	-1775.06	1677418.86	14324364.96	39°26'45.740"N	80°52'08.147"W	5415.18	340.865	1.03	0.10	1.02	
12056.00	89.680	341.160	6463.90	5503.92	5200.13	-1804.07	1677389.86	14324449.08	39°26'46.572"N	80°52'08.515"W	5504.18	340.867	0.44	-0.18	0.40	
12146.00	89.760	341.670	6464.36	5593.90	5285.43	-1832.75	1677361.19	14324534.34	39°26'47.415"N	80°52'08.879"W	5594.17	340.876	0.58	0.11	0.57	
12235.00	89.730	342.380	6464.75	5682.86	5370.09	-1860.22	1677333.74	14324618.96	39°26'48.252"N	80°52'09.228"W	5683.15	340.894	0.80	-0.03	0.80	
12325.00	89.760	343.710	6465.15	5772.75	5456.17	-1886.46	1677307.50	14324705.01	39°26'49.104"N	80°52'09.561"W	5773.09	340.927	1.48	0.03	1.48	
12415.00	89.730	343.680	6465.55	5862.59	5542.59	-1911.58	1677282.40	14324791.40	39°26'49.958"N	80°52'09.880"W	5862.98	340.971	0.19	-0.03	0.19	
12504.00	89.510	344.380	6466.14	5951.39	5628.20	-1935.92	1677256.07	14324876.87	39°26'50.805"N	80°52'10.188"W	5951.84	341.018	0.61	-0.25	0.56	
12594.00	89.700	344.130	6466.77	6041.17	5714.82	-1960.34	1677233.66	14324963.55	39°26'51.661"N	80°52'10.498"W	6041.70	341.067	0.35	0.21	-0.28	
12683.00	89.480	343.880	6467.40	6129.98	5800.37	-1984.86	1677209.14	14325049.07	39°26'52.507"N	80°52'10.809"W	6130.58	341.109	0.37	-0.25	-0.28	
12773.00	89.820	343.590	6467.95	6219.92	5886.77	-2010.07	1677183.95	14325135.43	39°26'53.361"N	80°52'11.129"W	6220.48	341.147	0.50	0.38	-0.32	
12862.00	89.450	339.530	6468.52	6308.78	5970.92	-2038.95	1677155.08	14325219.55	39°26'54.193"N	80°52'11.495"W	6309.45	341.146	5.70	-0.42	-5.69	
12952.00	89.570	341.180	6469.29	6398.77	6055.41	-2069.84	1677124.10	14325304.00	39°26'55.029"N	80°52'11.889"W	6399.42	341.128	2.95	0.13	2.94	
13041.00	89.480	340.560	6470.03	6487.76	6139.49	-2099.10	1677094.95	14325388.05	39°26'55.860"N	80°52'12.259"W	6488.42	341.124	0.70	-0.10	-0.70	
13131.00	89.350	335.430	6470.94	6577.65	6222.90	-2132.81	1677061.25	14325471.43	39°26'56.685"N	80°52'12.687"W	6578.25	341.082	5.70	-0.13	-5.70	
13221.00	89.510	332.990	6471.83	6667.08	6303.71	-2162.33	1677021.69	14325552.21	39°26'57.484"N	80°52'13.190"W	6667.54	340.985	3.38	0.17	-3.38	
13310.00	89.680	335.700	6472.47	6756.53	6383.72	-2211.39	1676982.76	14325632.19	39°26'58.276"N	80°52'13.688"W	6755.88	340.894	3.72	0.17	3.72	
13400.00	89.480	338.460	6473.15	6845.38	6466.61	-2246.38	1676947.73	14325715.04	39°26'59.095"N	80°52'14.190"W	6845.67	340.844	3.07	-0.20	3.07	



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Dale Pad	Sidetrack from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH DATA (167 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dip	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(°)	(°)	(ft)	(ft)	(ft/100ft)	(ft/100ft)	(°/100ft)	
13489.00	89.450	338.680	6473.98	6934.33	6549.45	-2278.89	1676915.23	14325797.85	39°26'59.915"N	80°52'14.543"W	6834.60	340.815	0.25	-0.03	0.25	
13579.00	89.450	340.020	6474.84	7024.31	6633.66	-2310.63	1676883.50	14325882.03	39°27'00.747"N	80°52'14.946"W	7024.66	340.796	1.48	0.00	1.49	
13668.00	89.480	343.660	6475.67	7113.26	6718.21	-2338.36	1676855.78	14325966.54	39°27'01.583"N	80°52'15.298"W	7113.53	340.809	4.09	0.03	4.09	
13758.00	89.970	343.450	6476.10	7203.12	6804.53	-2363.84	1676830.32	14326052.83	39°27'02.437"N	80°52'15.622"W	7203.43	340.843	0.59	0.54	-0.23	
13847.00	90.160	339.920	6476.00	7292.06	6889.01	-2391.80	1676802.36	14326137.27	39°27'03.272"N	80°52'15.976"W	7292.40	340.853	3.97	0.21	-3.97	
13937.00	90.250	340.360	6475.68	7382.07	6973.65	-2422.38	1676771.80	14326221.88	39°27'04.109"N	80°52'16.365"W	7382.40	340.845	0.50	0.10	0.49	
14027.00	90.220	343.570	6475.31	7472.02	7059.22	-2450.24	1676743.95	14326307.41	39°27'04.955"N	80°52'16.718"W	7472.37	340.858	3.57	-0.03	3.57	
14116.00	90.220	342.840	6474.97	7560.91	7144.42	-2475.95	1676718.25	14326392.58	39°27'05.798"N	80°52'17.045"W	7561.29	340.886	0.82	0.00	-0.82	
14205.00	90.160	340.230	6474.68	7649.88	7228.83	-2504.14	1676690.07	14326476.96	39°27'06.632"N	80°52'17.402"W	7650.28	340.893	2.93	-0.07	-2.93	
14295.00	90.280	338.340	6474.33	7739.86	7313.01	-2535.87	1676668.25	14326561.10	39°27'07.465"N	80°52'17.807"W	7740.24	340.875	2.10	0.13	-2.10	
14385.00	90.280	338.330	6473.89	7829.81	7396.65	-2569.20	1676625.04	14326644.71	39°27'08.292"N	80°52'18.229"W	7830.15	340.846	0.01	0.00	-0.01	
14474.00	89.970	337.100	6473.70	7918.71	7479.00	-2602.95	1676591.30	14326727.03	39°27'09.108"N	80°52'18.657"W	7919.02	340.810	1.43	-0.35	-1.38	
14563.00	89.690	336.550	6473.96	8007.55	7560.82	-2637.15	1676556.29	14326809.81	39°27'10.735"N	80°52'19.102"W	8007.61	340.766	0.69	-0.31	-0.62	
14653.00	89.850	337.440	6474.32	8097.40	7643.66	-2673.15	1676521.13	14326891.62	39°27'11.547"N	80°52'19.549"W	8097.61	340.724	1.00	0.18	0.99	
14742.00	89.970	337.380	6474.48	8186.28	7725.83	-2707.33	1676486.96	14326973.76	39°27'12.377"N	80°52'20.000"W	8186.46	340.668	0.15	0.13	-0.07	
14832.00	89.820	340.330	6474.83	8276.24	7809.76	-2739.80	1676454.51	14327057.66	39°27'13.212"N	80°52'20.396"W	8276.41	340.668	3.28	-0.17	3.28	
14876.00	89.820	340.330	6474.76	8320.24	7851.20	-2754.61	1676439.71	14327099.07	39°27'12.787"N	80°52'20.584"W	8320.40	340.666	0.00	0.00	0.00	Projected MD at TD: 14876'



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #05
Operator	ANTERO RESOURCES CORPORATION	Well	Rymer Unit 1H ST01
Area	Tyler County, WV	Wellbore	Rymer Unit 1H ST01 AWB
Field	Tyler	Sideltrack from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD
Facility	Dale Pad		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Rymer Unit 1H ST01 POE Rev-1	6494.00	173.44	44.99	1679238.18	14319424.39	39°25'56.864"N	80°51'45.043"W	point
Rymer Unit 1H ST01 BHL Rev-2	6516.00	7867.93	-2742.39	1676451.92	14327115.80	39°27'12.952"N	80°52'20.428"W	point
Rymer Unit 1H ST01 LP Rev-2	6516.00	304.23	-23.38	1679169.84	14319555.13	39°25'58.157"N	80°51'45.912"W	point

WELLPATH COMPOSITION - Ref Wellbore: Rymer Unit 1H ST01 AWB Ref Wellpath: Rymer Unit 1H ST01 AWP Proj: 14876'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	5400.00	Gyrodata standard - Drop gyro or Multi-shot	04_Gyrodata MS Gyro [Re-Gyro Wellbore] (100'-5400')	Rymer Unit 1H AWB
5400.00	6568.00	Gyrodata standard - Drop gyro or Multi-shot	04_Gyrodata MS Gyro [Re-Gyro Wellbore] (5400') (5500'-6568')	Rymer Unit 1H ST01 AWB
6568.00	14832.00	BHI AutoTrak Curve w/ Surcon (MagCAD, Short spacing)	05_BHI AT Curve <8-1/2'> [SS+MSA] (6568') (6683'-14832')	Rymer Unit 1H ST01 AWB
14832.00	14876.00	Blind Drilling (std)	Projection to bit	Rymer Unit 1H ST01 AWB



Actual Wellpath Report

Rymer Unit 1H ST01 AWP Proj: 14876'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Rymer Unit 1H ST01
Field	Tyler	Wellbore	Rymer Unit 1H ST01 AWB
Facility	Dale Pad	Side-track from	Rymer Unit 1H AWP Proj: 14922' at 5400.00 MD

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
100.00	0.090	166.640	100.00	Gyrodatta MS Gyro [Re-Gyro Wellbore] (100'-5400') [Original Hole]
5500.00	11.070	154.780	5488.02	Gyrodatta MS Gyro [Re-Gyro Wellbore] (5400') (5500'-6568')
6182.00	22.487	11.863	6156.40	Sycamore: 6182' MD
6390.00	41.681	351.357	6333.36	Middlesex: 6390' MD
6538.00	57.795	339.089	6426.48	Burkett: 6538' MD
6610.00	64.429	331.802	6463.03	Tully: 6610' MD
6683.00	70.660	325.790	6490.93	BHI AT Curve <8-1/2"> [SS+MSA] (6568') (6683'-14832')
6697.00	72.195	324.586	6495.39	Marcellus: 6697' MD
14876.00	89.820	340.330	6474.76	Projected MD at TD: 14876'

COMMENTS

Wellpath general comments
 API #: 47-095-02269-0100
 BHI Job #: 7977630A
 Rig: PD 523
 Duration: 06.10.2016-06.17.2016
 Gyrodatta MS Gyro [Re-Gyro Wellbore] (5400') (5500'-6568')
 BHI AT Curve <8-1/2"> [SS+MSA] (6568') (6683'-14832')
 Sycamore: 6182' MD
 Middlesex: 6390' MD
 Burkett: 6538' MD
 Tully: 6610' MD
 Marcellus: 6697' MD
 Projected MD at TD: 14876'
 Gyrodatta MS Gyro [Re-Gyro Wellbore] (100'-5400') [Original Hole]