



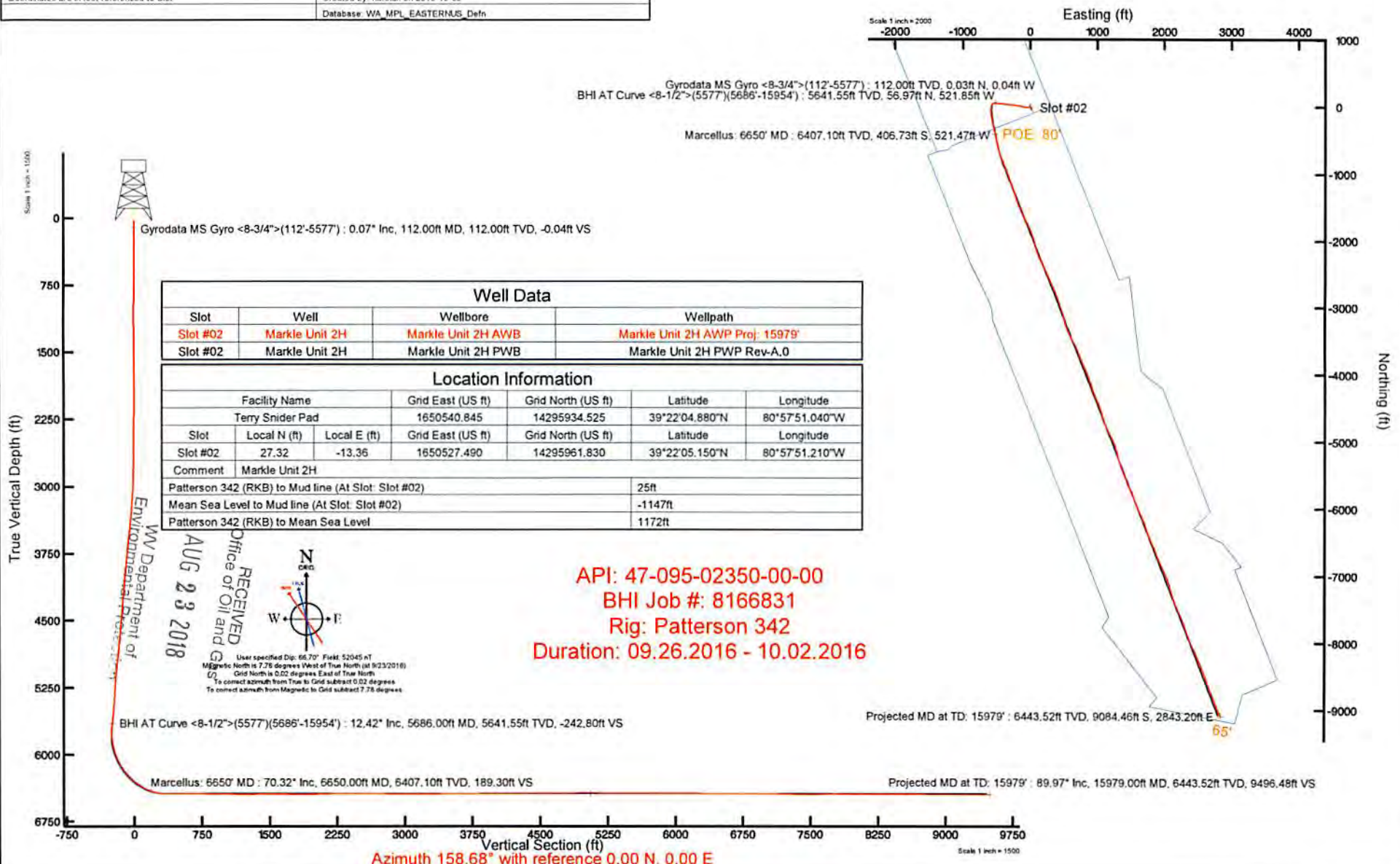
ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
 Field: Tyler
 Facility: Terry Snider Pad

Slot: Slot #02
 Well: Markle Unit 2H
 Wellbore: Markle Unit 2H PWB

Plot reference wellpath is Markle Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 342 (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Patterson 342 (RKB) to Mean Sea Level: 1172 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #02): -1147 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harekuk on 2016-10-06
	Database: WA_MPL_EASTERNUS_Defn



Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	Markle Unit 2H	Markle Unit 2H AWB	Markle Unit 2H AWP Proj: 15979'
Slot #02	Markle Unit 2H	Markle Unit 2H PWB	Markle Unit 2H PWP Rev-A.0

Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Terry Snider Pad		1650540.845	14295934.525	39°22'04.880"N	80°57'51.040"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #02	27.32	-13.36	1650527.490	14295961.830	80°57'51.210"W
Comment		Markle Unit 2H			
Patterson 342 (RKB) to Mud line (At Slot: Slot #02)				25ft	
Mean Sea Level to Mud line (At Slot: Slot #02)				-1147ft	
Patterson 342 (RKB) to Mean Sea Level				1172ft	

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Azimuth 158.68° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Markle Unit 2H AWP Proj: 15979'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Markle Unit 2H
Field	Tyler	Wellbore	Markle Unit 2H AWB
Facility	Terry Snider Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Hareluk
Scale	0.999600	Report Generated	10/6/2016 at 4:27:56 PM
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Markle_Unit_2H_AWP_Proj_15979_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	27.32	-13.36	1650527.49	14295961.83	39°22'05.150"N	80°57'51.210"W
Facility Reference Pt			1650540.85	14295934.53	39°22'04.880"N	80°57'51.040"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 342 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Mean Sea Level	1172.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Mud Line at Slot (Slot #02)	25.00ft
MD Reference Pt	Patterson 342 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.68°

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Markie Unit 2H AWP Proj: 15979



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Terry Snider Pad
Well	Wellbore
Slot	Markie Unit 2H AWP
Slot #02	Markie Unit 2H

WELLPATH DATA (186 stations) † = interpolated/extrapolated station		MD [m]	Inclination [°]	Azimuth [°]	TVD [m]	Vent Sect [m]	North [m]	East [m]	Grid East [US m]	Grid North [US m]	Latitude	Longitude	Closure Dist [m]	Closure Dir [°]	DLS Rate ["/100m]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1650527.49	14295961.83	39°22'05.150"N	80°57'51.210"W	0.00	0.00	0.00	0.00	0.00	
25.00	0.000	303.970	25.00	0.00	0.00	0.00	0.00	0.00	1650527.49	14295961.83	39°22'05.150"N	80°57'51.210"W	0.00	0.00	0.00	0.00	0.00	
112.00	0.070	303.970	112.00	-0.04	0.03	-0.04	0.03	-0.04	1650527.45	14295961.86	39°22'05.151"N	80°57'51.211"W	0.05	303.970	0.08	0.08	0.08	
212.00	0.140	82.650	212.00	-0.06	0.08	-0.06	0.08	-0.06	1650527.52	14295961.91	39°22'05.151"N	80°57'51.210"W	0.08	18.401	0.20	0.07	138.68	
312.00	0.250	101.630	312.00	0.08	0.05	0.08	0.05	0.08	1650527.85	14295961.88	39°22'05.151"N	80°57'51.205"W	0.36	81.948	0.13	0.11	18.98	
412.00	0.260	105.540	412.00	0.34	0.05	0.34	0.05	0.34	1650528.28	14295961.78	39°22'05.150"N	80°57'51.200"W	0.80	93.868	0.02	0.01	3.91	
512.00	0.250	103.190	512.00	0.60	-0.16	1.22	1650528.71	14295961.67	39°22'05.148"N	80°57'51.194"W	39°22'05.148"N	80°57'51.194"W	1.24	97.638	0.01	-0.01	-2.35	
612.00	0.220	222.200	612.00	0.81	-0.36	1.31	1650528.80	14295961.47	39°22'05.147"N	80°57'51.193"W	39°22'05.147"N	80°57'51.193"W	1.36	105.235	0.41	-0.03	119.01	
712.00	2.200	264.170	712.00	1.97	-0.38	-0.69	1650526.76	14295961.14	39°22'05.143"N	80°57'51.219"W	39°22'05.143"N	80°57'51.219"W	1.01	226.494	2.04	1.98	41.97	
812.00	4.670	261.050	812.00	1.79	-0.99	-1.51	1650520.92	14295960.32	39°22'05.135"N	80°57'51.294"W	39°22'05.135"N	80°57'51.294"W	6.75	257.082	2.38	-3.12	-3.12	
912.00	5.240	260.330	912.00	1.42	-2.76	-2.90	1650512.48	14295958.94	39°22'05.121"N	80°57'51.401"W	39°22'05.121"N	80°57'51.401"W	15.29	259.085	0.67	-0.72	-4.04	
1012.00	4.180	256.290	1012.00	1.08	-4.17	-4.53	1650504.44	14295957.31	39°22'05.105"N	80°57'51.504"W	39°22'05.105"N	80°57'51.504"W	23.50	258.894	1.11	-1.06	-4.04	
1112.00	1.660	335.720	1112.00	1.95	-4.32	-6.21	1650499.71	14295956.63	39°22'05.089"N	80°57'51.564"W	39°22'05.089"N	80°57'51.564"W	28.48	257.413	2.69	-2.52	-20.57	
1212.00	1.170	204.450	1212.00	0.92	-3.29	-7.95	1650498.09	14295953.88	39°22'05.072"N	80°57'51.585"W	39°22'05.072"N	80°57'51.585"W	30.47	254.873	0.90	-0.49	-31.27	
1312.00	1.070	189.640	1312.00	0.90	-1.77	-9.80	1650497.51	14295952.02	39°22'05.053"N	80°57'51.592"W	39°22'05.053"N	80°57'51.592"W	31.55	251.903	0.31	-0.10	-14.81	
1412.00	0.360	189.450	1412.00	0.89	-0.70	-11.03	1650497.30	14295950.80	39°22'05.041"N	80°57'51.595"W	39°22'05.041"N	80°57'51.595"W	32.15	249.834	0.71	-0.71	-0.19	
1512.00	0.240	260.730	1512.00	0.89	-0.42	-11.40	1650497.14	14295950.43	39°22'05.037"N	80°57'51.597"W	39°22'05.037"N	80°57'51.597"W	32.43	249.417	0.29	-0.22	51.36	
1612.00	0.280	273.910	1612.00	0.89	-0.59	-11.51	1650496.38	14295950.32	39°22'05.036"N	80°57'51.606"W	39°22'05.036"N	80°57'51.606"W	33.18	249.702	0.07	0.04	13.18	
1712.00	0.270	226.360	1712.00	0.89	-0.93	-11.30	1650496.01	14295950.54	39°22'05.038"N	80°57'51.611"W	39°22'05.038"N	80°57'51.611"W	33.46	250.266	0.24	-0.01	52.45	
1812.00	1.120	141.860	1812.00	0.88	-1.60	-10.37	1650496.53	14295951.46	39°22'05.048"N	80°57'51.604"W	39°22'05.048"N	80°57'51.604"W	32.67	251.482	1.08	0.85	75.52	
1912.00	0.480	11.030	1912.00	0.87	-2.39	-9.24	1650497.26	14295952.60	39°22'05.059"N	80°57'51.595"W	39°22'05.059"N	80°57'51.595"W	31.62	253.018	0.75	-0.64	-30.85	
2012.00	0.460	284.990	2012.00	0.87	-2.98	-8.72	1650496.95	14295953.11	39°22'05.064"N	80°57'51.599"W	39°22'05.064"N	80°57'51.599"W	31.77	254.068	0.64	-0.02	-86.04	
2112.00	0.450	886.410	2112.00	0.86	-3.46	-8.51	1650496.19	14295953.33	39°22'05.066"N	80°57'51.609"W	39°22'05.066"N	80°57'51.609"W	32.45	254.803	0.02	-0.01	1.42	
2212.00	0.490	15.860	2212.00	0.86	-4.04	-7.98	1650495.93	14295953.85	39°22'05.071"N	80°57'51.612"W	39°22'05.071"N	80°57'51.612"W	32.57	255.810	0.66	0.04	89.45	
2312.00	0.700	26.030	2312.00	0.86	-4.80	-7.02	1650496.31	14295954.81	39°22'05.081"N	80°57'51.607"W	39°22'05.081"N	80°57'51.607"W	31.97	257.309	0.23	0.21	10.17	
2512.00	0.840	17.560	2512.00	0.85	-5.78	-3.07	1650496.80	14295956.06	39°22'05.093"N	80°57'51.601"W	39°22'05.093"N	80°57'51.601"W	31.24	259.345	0.18	0.14	-8.47	
2612.00	0.840	2610.85	2612.00	0.84	-6.96	-4.41	1650497.08	14295957.42	39°22'05.107"N	80°57'51.597"W	39°22'05.107"N	80°57'51.597"W	30.74	261.757	0.19	-0.07	-12.88	
2712.00	1.720	257.110	2712.00	0.82	-7.78	-4.07	1650495.67	14295957.76	39°22'05.110"N	80°57'51.615"W	39°22'05.110"N	80°57'51.615"W	32.09	262.710	2.09	0.95	-107.57	
2812.00	3.860	264.860	2812.00	0.70	-8.94	-4.71	1650490.86	14295957.12	39°22'05.104"N	80°57'51.677"W	39°22'05.104"N	80°57'51.677"W	36.95	262.678	2.17	2.14	7.79	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Terry Snider Pad
Slot	Slot #02
Well	Markle Unit 2H
	Markle Unit 2H AWB

WELLPATH DATA (186 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS Rate	Build Rate	Turn Rate	Comments
2912.00	6.020	265.860	2910.32	-11.42	-5.39	-45.23	1650482.28	14295956.44	39°22'05.09"N	80°57'51.78"W	45.55	263.206	2.16	2.16	1.00	
3012.00	7.150	268.300	3009.66	-15.06	-5.95	-56.68	1650470.83	14295955.88	39°22'05.09"N	80°57'51.932"W	56.99	264.005	1.16	1.13	2.44	
3112.00	7.870	276.710	3108.80	-20.37	-5.34	-69.70	1650457.81	14295956.50	39°22'05.09"N	80°57'52.098"W	69.91	265.622	1.31	0.72	8.41	
3212.00	8.200	281.740	3207.82	-27.48	-3.09	-83.49	1650444.04	14295958.75	39°22'05.120"N	80°57'52.273"W	83.54	267.883	0.78	0.33	5.03	
3312.00	8.930	279.440	3306.71	-35.34	-0.36	-98.12	1650429.41	14295961.47	39°22'05.147"N	80°57'52.459"W	98.12	269.789	0.81	0.73	-2.30	
3412.00	9.560	282.530	3405.37	-44.07	2.77	-114.13	1650413.41	14295964.60	39°22'05.178"N	80°57'52.663"W	114.16	271.389	1.05	0.92	3.09	
3512.00	9.850	286.030	3503.89	-54.03	6.98	-130.70	1650398.84	14295968.81	39°22'05.220"N	80°57'52.874"W	130.89	273.059	0.60	0.00	3.50	
3612.00	10.330	285.700	3602.35	-64.61	11.77	-147.55	1650380.00	14295973.60	39°22'05.267"N	80°57'53.089"W	148.02	274.652	0.48	0.48	-0.33	
3712.00	10.820	280.430	3700.65	-74.95	15.90	-165.42	1650362.14	14295977.72	39°22'05.308"N	80°57'53.316"W	166.18	275.490	1.08	0.49	-5.27	
3812.00	10.550	278.380	3798.92	-84.15	18.61	-183.75	1650343.82	14295980.44	39°22'05.358"N	80°57'53.549"W	184.69	275.785	0.80	-0.27	-4.05	
3912.00	10.890	278.110	3897.17	-93.04	20.96	-202.20	1650325.38	14295982.79	39°22'05.358"N	80°57'53.784"W	203.28	275.920	0.47	0.34	1.73	
4012.00	10.900	281.240	3995.37	-102.77	24.14	-220.82	1650306.76	14295985.96	39°22'05.389"N	80°57'54.022"W	222.14	276.239	0.59	0.01	3.13	
4112.00	10.090	276.840	4093.70	-112.00	27.03	-238.79	1650288.79	14295988.65	39°22'05.418"N	80°57'54.250"W	240.32	276.457	1.14	-0.81	-4.40	
4212.00	10.190	271.920	4192.14	-119.62	28.37	-256.33	1650271.26	14295990.18	39°22'05.431"N	80°57'54.474"W	257.90	276.315	0.87	0.10	-4.92	
4312.00	10.240	274.370	4290.56	-126.96	29.34	-274.03	1650253.57	14295991.16	39°22'05.441"N	80°57'54.698"W	275.60	276.111	0.44	0.05	2.45	
4412.00	9.580	278.180	4389.06	-134.92	31.20	-291.13	1650236.47	14295993.02	39°22'05.460"N	80°57'54.917"W	292.80	276.117	0.93	-0.66	3.81	
4512.00	10.160	277.370	4487.59	-143.25	33.52	-308.12	1650219.50	14295995.33	39°22'05.482"N	80°57'55.133"W	309.94	276.208	0.60	0.58	-0.81	
4612.00	11.080	277.890	4585.87	-152.17	35.97	-326.38	1650201.24	14295997.78	39°22'05.507"N	80°57'55.366"W	328.36	276.289	0.92	0.52	-0.81	
4712.00	10.860	275.760	4684.04	-161.15	38.23	-345.27	1650182.35	14296000.05	39°22'05.529"N	80°57'55.608"W	347.38	276.319	0.46	-0.22	-2.13	
4812.00	11.190	274.700	4782.24	-169.69	39.97	-364.32	1650163.32	14296001.79	39°22'05.547"N	80°57'55.849"W	366.50	276.261	0.39	-0.33	-1.06	
4912.00	10.960	281.260	4880.34	-179.07	42.62	-383.31	1650144.33	14296004.44	39°22'05.573"N	80°57'56.090"W	385.68	276.345	1.28	-0.23	6.56	
5012.00	10.940	280.080	4978.52	-189.13	46.14	-401.98	1650125.67	14296007.95	39°22'05.608"N	80°57'56.328"W	404.62	276.548	0.23	-0.02	-1.18	
5112.00	11.610	278.000	5076.59	-199.00	49.20	-421.29	1650106.37	14296011.01	39°22'05.638"N	80°57'56.574"W	424.15	276.661	0.78	0.67	-2.08	
5212.00	9.200	275.970	5174.94	-207.60	51.43	-439.20	1650088.46	14296013.24	39°22'05.660"N	80°57'56.802"W	442.20	276.679	2.44	-2.41	-2.03	
5312.00	9.120	265.980	5273.67	-213.62	51.71	-455.06	1650072.61	14296013.52	39°22'05.663"N	80°57'57.004"W	457.99	276.483	1.59	-0.08	-9.99	
5412.00	9.940	270.250	5372.29	-219.15	51.19	-471.60	1650056.08	14296013.00	39°22'05.658"N	80°57'57.214"W	474.37	276.195	1.08	0.82	4.27	
5512.00	10.130	277.380	5470.76	-226.55	52.36	-488.95	1650038.74	14296014.17	39°22'05.669"N	80°57'57.435"W	491.75	276.112	1.26	0.19	7.13	
5612.00	12.420	275.630	5541.55	-242.80	56.97	-521.85	1650005.85	14296018.77	39°22'05.715"N	80°57'57.854"W	524.95	276.230	1.96	1.80	-3.94	BHI AT Curve <8-1/2>(5577)(5686-15954)
5719.00	13.550	270.630	5673.70	-245.85	57.36	-529.24	1649998.46	14296019.17	39°22'05.719"N	80°57'57.948"W	532.34	276.185	4.83	3.42	-15.15	

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Terry Snider Pad
Slot	Slot #02
Markie Unit 2H	Well
Markie Unit 2H AWB	Wellbore

WELLPATH DATA (186 stations) † = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	DLS	Bull'd Rate	Turn Rate	Comments
5780.00	13.366	258.930	6733.04	-249.78	56.08	-543.31	1649984.40	14296017.89	39°22'05.70"N	80°57'58.12"W	546.19	275.894	4.47	-0.31	-19.18
5781.00	14.100	240.110	5782.61	-249.90	51.85	-554.48	1649973.23	14296019.66	39°22'05.66"N	80°57'58.27"W	556.90	275.343	8.84	1.45	-36.90
5874.00	14.660	222.890	5824.28	-246.75	45.25	-562.73	1649964.99	14296007.07	39°22'05.59"N	80°57'58.375"W	564.55	274.598	9.99	1.30	-40.05
5922.00	15.450	208.430	5870.65	-239.98	35.18	-569.91	1649957.81	14295996.99	39°22'05.50"N	80°57'58.466"W	571.00	273.532	7.97	1.65	-30.12
5968.00	17.320	199.030	5915.74	-230.60	23.06	-575.17	1649852.55	14295984.88	39°22'05.38"N	80°57'58.533"W	575.64	272.295	6.89	3.98	-20.00
6018.00	20.150	194.370	5962.15	-218.18	7.98	-579.65	1649848.08	14295969.81	39°22'05.231"N	80°57'58.590"W	579.70	270.789	6.53	5.78	-9.51
6063.00	23.180	190.300	6003.97	-204.34	-8.25	-583.16	1649944.70	14295953.29	39°22'05.071"N	80°57'58.635"W	583.21	269.190	7.51	6.73	-9.04
6112.00	26.550	186.000	6048.42	-186.39	-28.63	-586.03	1649941.70	14295933.21	39°22'04.869"N	80°57'58.672"W	586.72	267.203	7.80	6.88	-8.76
6157.00	30.240	181.010	6088.00	-167.00	-49.97	-587.36	1649940.37	14295891.88	39°22'04.658"N	80°57'58.689"W	589.48	265.137	9.52	8.20	-10.20
6208.00	33.820	177.480	6131.24	-141.70	-77.00	-587.05	1649940.68	14295884.86	39°22'04.391"N	80°57'58.685"W	592.08	262.527	8.12	7.02	-7.71
6252.00	36.880	174.590	6167.12	-117.41	-102.39	-585.26	1649942.46	14295859.48	39°22'04.140"N	80°57'58.662"W	594.15	260.077	7.92	6.95	-6.57
6278.00†	39.210	172.733	6187.60	-101.93	-118.31	-583.49	1649944.24	14295843.57	39°22'03.983"N	80°57'58.640"W	595.36	258.538	9.98	8.96	-7.14
6297.00	40.930	171.480	6202.14	-90.03	-130.42	-581.81	1649945.92	14295831.46	39°22'03.863"N	80°57'58.619"W	596.25	257.365	9.98	9.05	-6.54
6346.00	43.840	170.610	6238.33	-57.77	-163.05	-576.66	1649951.06	14295798.85	39°22'03.541"N	80°57'58.553"W	599.27	254.212	6.06	5.94	-1.80
6393.00	47.680	168.740	6271.11	-24.72	-196.16	-570.61	1649957.11	14295765.75	39°22'03.213"N	80°57'58.476"W	603.99	251.028	8.65	8.17	-3.98
6407.00†	48.776	168.403	6280.44	-14.44	-206.40	-668.54	1649959.18	14295755.52	39°22'03.112"N	80°57'58.450"W	604.85	250.048	8.03	7.83	-2.41
6441.00	51.440	167.630	6302.24	11.30	-231.91	-663.12	1649964.59	14295730.01	39°22'02.860"N	80°57'58.381"W	609.01	247.617	8.03	7.84	-2.27
6488.00	54.830	166.650	6330.44	48.49	-268.56	-654.75	1649972.96	14295693.38	39°22'02.498"N	80°57'58.275"W	616.34	244.168	7.40	7.21	-2.09
6537.00	58.030	166.370	6357.53	88.93	-308.26	-645.22	1649982.48	14295653.70	39°22'02.105"N	80°57'58.154"W	626.33	240.517	6.55	6.53	-0.57
6570.00†	61.197	166.484	6374.22	117.13	-335.93	-638.55	1649889.16	14295626.04	39°22'01.832"N	80°57'58.069"W	634.73	238.046	9.60	9.60	0.34
6584.00	62.540	166.530	6380.82	129.36	-347.93	-635.66	1649992.04	14295614.04	39°22'01.713"N	80°57'58.032"W	638.74	236.995	9.60	9.60	0.33
6629.00	68.010	166.180	6399.63	169.86	-387.64	-626.02	1650001.68	14295574.35	39°22'01.321"N	80°57'57.910"W	653.42	233.613	12.18	12.16	-0.75
6650.00†	70.322	166.997	6407.10	169.30	-406.73	-621.47	1650006.23	14295555.27	39°22'01.132"N	80°57'57.852"W	661.33	232.047	11.59	11.01	3.89
6678.00	73.410	168.050	6415.82	215.59	-432.70	-615.73	1650011.97	14295529.30	39°22'00.875"N	80°57'57.779"W	673.21	230.003	11.59	11.03	3.76
6723.00	79.260	168.770	6426.44	258.66	-475.52	-506.95	1650020.75	14295486.50	39°22'00.452"N	80°57'57.667"W	695.07	226.832	13.09	13.00	1.60
6768.00	85.530	169.270	6432.40	302.52	-519.29	-498.46	1650029.23	14295442.75	39°22'00.020"N	80°57'57.569"W	719.81	223.828	13.98	13.93	1.11
6817.00	90.030	168.440	6434.29	350.70	-567.31	-489.00	1650038.69	14295394.74	39°21'59.545"N	80°57'57.439"W	748.97	220.760	9.34	9.18	-1.69
6911.00	90.120	163.950	6434.17	443.87	-658.57	-468.57	1650061.11	14295303.52	39°21'58.643"N	80°57'57.154"W	807.10	215.316	4.78	0.10	-5.46
7006.00	90.120	158.760	6433.97	538.73	-748.66	-436.21	1650091.45	14295213.57	39°21'57.753"N	80°57'56.768"W	866.38	210.231	5.46	0.00	

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Markle Unit 2H AWP Proj: 15979'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Markle Unit 2H
Field	Tyler	Wellbore	Markle Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (186 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
7100.00	89.850	157.300	6434.00	632.72	-835.73	-401.04	1650126.61	14295126.44	39°21'56.892"N	80°57'56.320"W	926.97	205.635	1.58	-0.29	-1.55	
7194.00	88.920	158.050	6435.01	726.70	-922.68	-365.34	1650162.30	14295039.52	39°21'56.032"N	80°57'55.866"W	992.37	201.601	1.27	-0.99	0.80	
7289.00	89.020	160.010	6436.71	821.68	-1011.37	-331.35	1650196.27	14294950.87	39°21'55.155"N	80°57'55.434"W	1064.26	198.140	2.07	0.11	2.06	
7383.00	86.950	160.100	6438.38	915.64	-1099.71	-299.29	1650228.32	14294862.56	39°21'54.282"N	80°57'55.026"W	1139.71	195.224	0.12	-0.07	0.10	
7478.00	89.200	162.200	6439.91	1010.53	-1189.60	-268.60	1650259.00	14294772.71	39°21'53.394"N	80°57'54.636"W	1219.55	192.723	2.23	0.26	2.21	
7572.00	89.540	161.930	6440.95	1104.36	-1279.03	-239.66	1650287.93	14294683.32	39°21'52.510"N	80°57'54.268"W	1301.29	190.613	0.46	0.36	-0.29	
7665.00	89.720	162.470	6441.55	1197.19	-1367.57	-211.23	1650316.35	14294594.81	39°21'51.634"N	80°57'53.906"W	1383.79	188.780	0.61	0.19	0.58	
7760.00	90.220	158.870	6441.60	1292.11	-1457.20	-179.79	1650347.78	14294505.21	39°21'50.748"N	80°57'53.506"W	1468.25	187.034	3.83	0.53	-3.79	
7854.00	91.320	157.310	6440.33	1386.10	-1544.40	-144.72	1650382.83	14294418.05	39°21'49.886"N	80°57'53.060"W	1551.17	185.353	2.03	1.17	-1.66	
7948.00	89.910	151.470	6439.32	1479.78	-1629.12	-104.11	1650423.43	14294333.36	39°21'49.049"N	80°57'52.544"W	1632.45	183.656	6.39	-1.50	-6.21	
8043.00	89.910	153.200	6439.47	1574.20	-1713.26	-60.00	1650467.52	14294249.26	39°21'48.217"N	80°57'51.983"W	1714.31	182.006	1.82	0.00	1.82	
8137.00	89.080	156.320	6440.30	1667.96	-1798.27	-19.92	1650507.58	14294164.28	39°21'47.377"N	80°57'51.473"W	1798.38	180.635	3.43	-0.88	3.32	
8231.00	89.170	158.840	6441.74	1761.93	-1885.15	15.92	1650543.40	14294077.44	39°21'46.518"N	80°57'51.017"W	1885.22	179.516	2.68	0.10	2.68	
8326.00	89.320	163.200	6442.99	1856.82	-1974.95	46.81	1650574.28	14293987.67	39°21'45.630"N	80°57'50.624"W	1975.51	178.642	4.59	0.16	4.59	
8420.00	90.650	166.220	6443.01	1950.28	-2065.61	71.59	1650589.05	14293897.05	39°21'44.734"N	80°57'50.309"W	2066.85	178.015	3.51	1.41	3.21	
8515.00	92.400	163.420	6440.48	2044.69	-2157.25	96.46	1650623.91	14293805.44	39°21'43.828"N	80°57'49.993"W	2159.41	177.440	3.47	1.84	-2.95	
8609.00	91.970	154.840	6436.89	2138.53	-2244.94	129.89	1650657.33	14293717.79	39°21'42.961"N	80°57'49.568"W	2248.70	176.689	9.13	-0.46	-9.13	
8703.00	89.910	153.250	6435.35	2232.20	-2329.44	171.02	1650698.44	14293633.33	39°21'42.126"N	80°57'49.044"W	2335.71	175.801	2.77	-2.19	-1.69	
8797.00	90.250	156.330	6435.22	2325.98	-2414.48	211.05	1650738.46	14293548.32	39°21'41.285"N	80°57'48.535"W	2423.68	175.004	3.30	0.36	3.28	
8892.00	90.150	157.550	6434.89	2420.93	-2501.88	248.26	1650775.65	14293460.95	39°21'40.421"N	80°57'48.062"W	2514.17	174.333	1.29	-0.11	1.28	
8986.00	89.780	155.350	6434.95	2514.85	-2588.05	285.82	1650813.19	14293374.82	39°21'39.570"N	80°57'47.584"W	2603.78	173.698	2.37	-0.39	-2.34	
9081.00	90.060	157.270	6435.08	2609.77	-2675.04	323.99	1650851.35	14293287.87	39°21'38.710"N	80°57'47.099"W	2694.59	173.094	2.04	0.29	2.02	
9175.00	89.720	155.550	6435.26	2703.69	-2761.18	361.60	1650888.95	14293201.76	39°21'37.858"N	80°57'46.620"W	2784.76	172.539	1.87	-0.36	-1.83	
9270.00	88.920	160.100	6436.39	2798.65	-2849.12	397.45	1650924.78	14293113.85	39°21'36.989"N	80°57'46.164"W	2876.71	172.059	4.86	-0.84	4.79	
9364.00	90.280	161.710	6437.04	2892.57	-2937.95	428.20	1650955.51	14293025.07	39°21'36.111"N	80°57'45.773"W	2968.99	171.708	2.24	1.45	1.71	
9459.00	89.380	160.990	6437.33	2987.46	-3027.95	458.57	1650985.88	14292935.09	39°21'35.221"N	80°57'45.387"W	3062.48	171.388	1.21	-0.95	-0.76	
9553.00	89.970	165.420	6437.86	3081.14	-3117.92	485.73	1651013.02	14292845.16	39°21'34.332"N	80°57'45.042"W	3155.53	171.145	4.75	0.63	4.71	
9647.00	90.340	165.220	6437.61	3174.51	-3208.85	509.55	1651036.84	14292754.27	39°21'33.433"N	80°57'44.739"W	3249.06	170.977	0.45	0.39	-0.21	
9742.00	90.400	159.190	6436.99	3269.29	-3299.26	538.57	1651065.84	14292663.89	39°21'32.539"N	80°57'44.370"W	3342.93	170.729	6.35	0.06	-6.35	
9836.00	90.620	154.680	6436.15	3363.22	-3385.72	575.39	1651102.64	14292577.47	39°21'31.685"N	80°57'43.902"W	3434.27	170.355	4.80	0.23	-4.80	

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Markle Unit 2H AWP Proj: 15979

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Markle Unit 2H
Field	Tyler	Wellbore	Markle Unit 2H AWP
Facility	Terry Snider Pad		

WELLPATH DATA (186 stations)

MD	Inclination	Azimuth	TVD	Vert Sact	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft/100ft)	(°/100ft)	
9930.00	92.150	153.800	6433.88	3456.90	-3470.35	616.22	1651143.47	14292492.87	39°21'30.84"N	80°57'43.382"W	3524.64	169.931	1.88	1.63	-0.94	
10025.00	90.650	150.400	6431.56	3551.23	-3554.27	660.66	1651187.88	14292408.99	39°21'30.018"N	80°57'42.817"W	3615.15	169.470	3.91	-1.58	-3.58	
10119.00	88.860	155.260	6431.96	3644.71	-3637.87	703.57	1651230.77	14292325.42	39°21'29.192"N	80°57'42.271"W	3705.28	169.054	5.51	-1.90	5.17	
10213.00	90.430	161.580	6432.55	3738.66	-3725.23	738.12	1651265.31	14292238.10	39°21'28.328"N	80°57'41.832"W	3797.65	168.793	6.93	1.67	6.72	
10308.00	91.880	156.630	6430.63	3833.60	-3813.94	771.98	1651299.18	14292149.43	39°21'27.451"N	80°57'41.401"W	3891.28	168.557	5.43	1.53	-5.21	
10401.00	90.150	155.010	6428.98	3926.46	-3898.76	810.07	1651337.23	14292064.64	39°21'26.613"N	80°57'40.917"W	3982.02	168.262	2.55	-1.86	-1.74	
10466.00	89.940	158.880	6428.91	4021.40	-3966.15	847.26	1651374.41	14291977.28	39°21'25.749"N	80°57'40.444"W	4075.20	168.000	4.08	-0.22	4.07	
10590.00	90.050	161.050	6428.88	4115.37	-4074.46	879.47	1651406.60	14291889.01	39°21'24.876"N	80°57'40.034"W	4168.29	167.820	2.31	-0.19	2.31	
10664.00	89.910	162.030	6428.88	4209.26	-4163.62	909.23	1651436.35	14291799.88	39°21'23.995"N	80°57'39.666"W	4261.74	167.681	1.06	-0.16	1.04	
10778.00	91.020	160.710	6428.12	4303.15	-4252.69	939.26	1651466.37	14291710.85	39°21'23.114"N	80°57'39.274"W	4355.18	167.546	1.83	1.18	-1.40	
10873.00	90.310	156.440	6427.02	4398.12	-4341.10	973.95	1651501.05	14291622.48	39°21'22.240"N	80°57'38.833"W	4449.01	167.355	4.56	-0.75	-4.49	
10967.00	89.600	158.660	6427.09	4492.09	-4427.97	1009.84	1651536.93	14291535.64	39°21'21.382"N	80°57'38.377"W	4541.66	167.153	2.48	-0.76	2.36	
11062.00	89.540	161.120	6427.80	4587.06	-4517.17	1042.50	1651569.57	14291446.48	39°21'20.500"N	80°57'37.961"W	4635.90	167.004	2.59	-0.06	2.59	
11156.00	89.540	162.820	6428.56	4680.90	-4606.54	1071.59	1651598.65	14291357.14	39°21'19.616"N	80°57'37.591"W	4729.54	166.905	1.81	0.00	1.81	
11250.00	90.800	161.610	6428.28	4774.72	-4696.05	1100.30	1651627.35	14291267.35	39°21'18.732"N	80°57'37.222"W	4823.23	166.813	1.86	1.34	-1.29	
11344.00	91.290	156.510	6426.56	4868.67	-4783.80	1133.88	1651660.92	14291179.96	39°21'17.864"N	80°57'36.799"W	4916.34	166.666	5.45	0.52	-5.43	
11439.00	90.980	161.890	6424.68	4963.33	-4869.29	1175.21	1651702.23	14291094.50	39°21'17.019"N	80°57'36.274"W	5009.10	166.431	4.87	-0.33	-4.86	
11533.00	88.170	163.560	6424.56	5056.82	-4952.83	1218.29	1651745.29	14291011.00	39°21'16.193"N	80°57'35.726"W	5100.46	166.181	2.61	-1.93	1.77	
11627.00	88.090	159.160	6426.81	5150.67	-5038.87	1255.97	1651782.95	14290924.98	39°21'15.343"N	80°57'35.247"W	5193.04	166.004	6.08	-1.15	5.97	
11721.00	88.920	165.070	6429.26	5244.43	-5128.26	1284.81	1651811.78	14290835.63	39°21'14.459"N	80°57'34.880"W	5286.76	165.935	6.35	0.88	6.28	
11815.00	89.970	167.870	6430.17	5337.55	-5219.64	1306.80	1651833.76	14290744.29	39°21'13.556"N	80°57'34.601"W	5380.74	165.944	3.18	1.12	2.98	
11910.00	89.910	162.120	6430.27	5431.93	-5311.93	1331.40	1651858.35	14290652.61	39°21'12.649"N	80°57'34.288"W	5475.68	165.928	6.07	-0.06	-6.07	
12004.00	90.000	158.890	6430.35	5525.87	-5399.95	1362.78	1651889.72	14290564.05	39°21'11.773"N	80°57'33.889"W	5569.26	165.836	3.42	0.10	-3.41	
12098.00	90.000	157.860	6430.35	5619.87	-5487.33	1397.42	1651924.35	14290476.70	39°21'10.910"N	80°57'33.448"W	5662.47	165.713	1.10	0.00	-1.10	
12192.00	89.910	157.580	6430.42	5713.86	-5574.32	1433.05	1651959.97	14290389.75	39°21'10.060"N	80°57'32.995"W	5755.57	165.583	0.30	-0.10	-0.29	
12286.00	90.090	157.640	6430.42	5807.84	-5661.23	1468.85	1651995.75	14290302.87	39°21'09.191"N	80°57'32.544"W	5848.68	165.455	0.20	0.19	0.05	
12381.00	90.150	157.690	6430.22	5902.83	-5749.11	1504.95	1652031.84	14290215.04	39°21'08.322"N	80°57'32.081"W	5942.82	165.331	0.08	0.06	0.05	
12475.00	89.690	157.080	6430.35	5996.80	-5835.88	1541.10	1652067.97	14290128.30	39°21'07.464"N	80°57'31.622"W	6035.93	165.207	0.81	-0.49	-0.65	
12569.00	89.690	158.430	6430.86	6090.79	-5922.88	1576.68	1652103.54	14290041.33	39°21'06.604"N	80°57'31.169"W	6129.14	165.093	1.44	0.00	1.44	
12664.00	90.180	157.030	6430.97	6185.77	-6010.79	1612.68	1652139.53	14289953.46	39°21'05.735"N	80°57'30.711"W	6223.37	164.981	1.56	0.52	-1.47	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Terry Snider Pad
Slot	Slot #02
Well	Markle Unit 2H
Wellbore	Markle Unit 2H AWP

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Gnd East	Gnd North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(N)	(E)	(ft)	(°)	(ft)	(ft/100ft)	(°/100ft)	
12758.00	89.750	153.640	6431.03	6279.60	-6096.20	1651.91	14289868.08	39°21'04.891"N	80°57'30.212"W	6316.05	164.838	3.64	-0.46	-3.61		
12853.00	89.420	158.320	6431.71	6374.46	-6182.95	1690.56	1652217.37	39°21'04.033"N	80°57'29.721"W	6409.90	164.708	4.94	-0.35	4.93		
12947.00	88.980	161.990	6433.03	6468.41	-6271.34	1722.47	1652249.26	39°21'03.159"N	80°57'29.315"W	6503.58	164.642	3.93	-0.47	3.90		
13042.00	90.310	161.030	6433.62	6563.28	-6361.43	1752.59	1652279.38	39°21'02.269"N	80°57'28.932"W	6598.44	164.597	1.73	-1.40	-1.01		
13136.00	89.840	156.600	6433.41	6657.26	-6449.06	1786.55	1652313.33	39°21'01.403"N	80°57'28.501"W	6691.94	164.516	4.73	-0.39	-4.71		
13231.00	89.290	155.710	6434.05	6752.16	-6535.94	1824.96	1652351.71	39°21'00.544"N	80°57'28.012"W	6785.94	164.399	1.16	-0.68	-0.94		
13325.00	89.140	157.180	6435.34	6846.08	-6622.10	1862.52	1652389.26	39°20'59.692"N	80°57'27.535"W	6879.04	164.291	1.57	-0.16	1.56		
13420.00	90.090	159.610	6435.98	6941.07	-6710.42	1897.49	1652424.22	39°20'58.819"N	80°57'27.090"W	6973.53	164.211	2.75	1.00	2.56		
13514.00	90.370	154.850	6436.60	7035.01	-6797.07	1933.86	1652460.58	39°20'57.962"N	80°57'26.627"W	7066.82	164.118	5.07	0.30	-5.06		
13608.00	89.170	154.400	6435.98	7128.77	-6881.99	1974.15	1652500.84	39°20'57.123"N	80°57'26.115"W	7159.55	163.994	1.36	-1.28	-0.48		
13702.00	88.520	157.630	6437.87	7222.64	-6967.85	2012.34	1652539.03	39°20'56.274"N	80°57'25.629"W	7252.62	163.891	3.50	-0.66	3.44		
13797.00	87.880	159.120	6440.85	7317.59	-7056.12	2047.34	1652574.00	39°20'55.401"N	80°57'25.185"W	7347.13	163.820	1.71	-0.67	1.57		
13891.00	89.170	164.830	6443.28	7411.36	-7145.43	2076.40	1652603.05	39°20'54.518"N	80°57'24.815"W	7441.01	163.797	6.23	1.37	6.07		
13986.00	89.970	166.430	6443.99	7505.66	-7237.46	2099.97	1652626.62	39°20'53.609"N	80°57'24.516"W	7535.96	163.820	1.88	0.84	1.88		
14080.00	92.520	161.610	6441.95	7599.19	-7327.77	2125.84	1652652.47	39°20'52.716"N	80°57'24.187"W	7629.90	163.822	5.80	2.71	-5.13		
14175.00	92.710	155.650	6437.81	7694.05	-7416.10	2160.40	1652687.02	39°20'51.843"N	80°57'23.748"W	7724.37	163.759	6.27	0.20	-6.27		
14269.00	89.290	154.950	6435.97	7787.86	-7501.48	2199.67	1652726.27	39°20'50.999"N	80°57'23.248"W	7817.33	163.657	3.71	-3.64	-0.74		
14364.00	89.660	157.390	6436.84	7882.75	-7588.37	2238.05	1652764.64	39°20'50.140"N	80°57'22.760"W	7911.52	163.568	2.60	0.39	2.57		
14458.00	89.600	158.790	6437.44	7976.75	-7675.58	2273.12	1652799.70	39°20'49.278"N	80°57'22.314"W	8005.09	163.503	1.49	-0.06	1.49		
14552.00	89.780	161.020	6437.95	8070.72	-7763.85	2305.41	1652831.98	39°20'48.405"N	80°57'21.904"W	8098.90	163.462	2.38	0.19	2.37		
14647.00	89.880	162.160	6438.24	8165.59	-7853.98	2335.42	1652861.97	39°20'47.514"N	80°57'21.523"W	8193.85	163.440	1.20	0.11	1.20		
14741.00	90.120	157.790	6438.24	8259.55	-7942.28	2367.60	1652894.13	39°20'46.641"N	80°57'21.113"W	8287.66	163.401	4.66	0.26	-4.65		
14835.00	89.850	153.380	6438.26	8353.38	-8027.85	2406.44	1652932.96	39°20'45.795"N	80°57'20.620"W	8380.77	163.313	4.70	-0.29	-4.69		
14929.00	89.660	153.410	6438.66	8446.98	-8111.90	2448.54	1652975.04	39°20'44.965"N	80°57'20.084"W	8473.38	163.204	0.20	-0.20	0.03		
15023.00	89.880	157.220	6439.04	8540.80	-8197.29	2487.79	1653014.28	39°20'44.120"N	80°57'19.585"W	8566.48	163.118	4.06	0.23	4.05		
15118.00	89.780	156.500	6439.32	8635.76	-8284.65	2525.12	1653051.59	39°20'43.257"N	80°57'19.111"W	8660.92	163.049	0.77	-0.11	-0.76		
15212.00	88.890	158.110	6440.41	8729.72	-8371.36	2561.38	1653087.84	39°20'42.400"N	80°57'18.649"W	8754.45	162.987	1.96	-0.95	1.71		
15307.00	89.450	159.850	6441.79	8824.70	-8460.02	2595.45	1653121.90	39°20'41.523"N	80°57'18.216"W	8849.20	162.944	1.92	0.59	1.83		
15401.00	89.910	159.430	6442.31	8918.69	-8548.15	2628.16	1653154.59	39°20'40.652"N	80°57'17.801"W	8943.05	162.910	0.66	0.49	-0.45		
15496.00	89.820	159.290	6442.54	9013.68	-8637.05	2661.64	1653188.06	39°20'39.773"N	80°57'17.375"W	9037.86	162.872	0.18	-0.09	-0.15		

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Actual Wellpath Report

Markle Unit 2H AWP Proj: 15979'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Markle Unit 2H
Field	Tyler	Wellbore	Markle Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (186 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
15590.00	89.850	158.780	6442.81	9107.68	-8724.83	2695.28	1653221.68	14287240.51	39°20'38.905"N	80°57'16.947"W	9131.66	162.833	0.54	0.03	-0.54	
15684.00	89.600	156.380	6443.26	9201.65	-8811.72	2731.12	1653257.52	14287153.66	39°20'38.046"N	80°57'16.492"W	9225.26	162.780	2.57	-0.27	-2.55	
15778.00	89.660	160.640	6443.87	9295.63	-8899.16	2765.55	1653291.93	14287066.25	39°20'37.182"N	80°57'16.054"W	9318.98	162.737	4.53	0.06	4.53	
15873.00	90.430	156.940	6443.79	9390.61	-8987.71	2799.92	1653326.28	14286977.73	39°20'36.307"N	80°57'15.617"W	9413.73	162.697	3.98	0.81	-3.89	
15954.00	89.970	155.250	6443.51	9471.52	-9061.76	2832.74	1653359.09	14286903.72	39°20'35.575"N	80°57'15.200"W	9494.20	162.641	2.16	-0.57	-2.09	
15979.00	89.970	155.250	6443.52	9496.48	-9084.46	2843.20	1653369.55	14286881.02	39°20'35.350"N	80°57'15.067"W	9518.99	162.621	0.00	0.00	0.00	Projected MD at TD: 15979'

TARGETS								
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Markle Unit 2H POE Rev-2	6400.00	-376.24	-525.39	1650002.31	14295585.75	39°22'01.433"N	80°57'57.901"W	point
Markle Unit 2H BHL Rev-2	6435.00	-9067.29	2802.89	1653329.25	14286898.18	39°20'35.520"N	80°57'15.580"W	point
Markle Unit 2H LP Rev-2	6435.00	-552.18	-490.15	1650037.53	14295409.87	39°21'59.694"N	80°57'57.454"W	point

WELLPATH COMPOSITION - Ref Wellbore: Markle Unit 2H AWB Ref Wellpath: Markle Unit 2H AWP Proj: 15979'				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5577.00	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <8-3/4">(100'-5565')	Markle Unit 2H AWB
5577.00	15954.00	BHI AutoTrak Curve (Short)	02_BHI AT Curve <8-1/2">(5577')(5686'-15954')	Markle Unit 2H AWB
15954.00	15979.00	Blind Drilling (std)	Projection to bit	Markle Unit 2H AWB

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Tyler County, WV	Well	Markle Unit 2H
Field	Tyler	Wellbore	Markle Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
112.00	0.070	303.970	112.00	Gyrodata MS Gyro <8-3/4">(112'-5577')	
5686.00	12.420	275.630	5641.55	BHI AT Curve <8-1/2">(5577')(5686'-15954')	
6278.00	39.210	172.733	6187.60	Sycamore: 6278' MD	
6407.00	48.776	168.403	6280.44	Middlesex: 6407' MD	
6570.00	61.197	166.484	6374.22	Burkett: 6570' MD	
6627.00	67.767	166.195	6398.88	Tully: 6627' MD	
6650.00	70.322	166.997	6407.10	Marcellus: 6650' MD	
15979.00	89.970	155.250	6443.52	Projected MD at TD: 15979'	

COMMENTS
<p>Wellpath general comments API: 47-095-02350-00-00 BHI Job #: 8166831 Rig: Patterson 342 Duration: 09.26.2016 - 10.02.2016 Gyrodata MS Gyro <8-3/4">(112'-5577') BHI AT Curve <8-1/2">(5577')(5686'-15954') Sycamore: 6278' MD Middlesex: 6407' MD Burkett: 6570' MD Tully: 6627' MD Marcellus: 6650' MD Projected MD at TD: 15979'</p>

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