



ANTERO RESOURCES CORPORATION

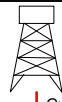
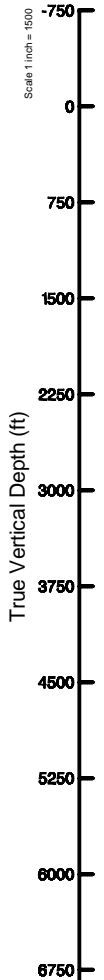
Location: Tyler County, WV
 Field: Tyler
 Facility: Terry Snider Pad

Slot: Slot #07
 Well: Tinker Unit 2H
 Wellbore: Tinker Unit 2H PWB



Plot reference wellpath is Tinker 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 geoidetic 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 #07): -1147 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: edsaryar on 2016-11-12
	Database: WA_MPL_EASTERNUS_Defn

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)
Slot #07	-18.21	8.65	1650549.490	14295916.320
			39°22'04.700"N	80°57'50.930"W
Comment				
Tinker Unit 2H				
Patterson 342 (RKB) to Mud line (At Slot: Slot #07)				25ft
Mean Sea Level to Mud line (At Slot: Slot #07)				-1147ft
Patterson 342 (RKB) to Mean Sea Level				1172ft



Gyrodata MS Gyro <8-3/4"> (100'-5720') : 0.21° Inc, 112.00ft MD, 112.00ft TVD, 0.14ft VS

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	5732.00	26.580	89.950	5499.54	-51.75	1094.65	-455.26
Proj. to Bottom	5912.00	26.580	89.950	5660.52	-51.68	1175.19	-485.16
End of Tangent	5924.50	26.580	89.950	5671.69	-51.67	1180.78	-487.23
Curve KOP	6867.74	65.036	341.910	6400.98	425.97	1272.72	-78.07
POE	6907.14	66.986	338.162	6417.00	459.80	1260.42	-42.10
Landing Pt.	7098.92	90.000	338.162	6455.00	633.06	1190.99	144.56
BHL	15406.83	90.000	338.162	6455.00	8344.79	-1899.45	8452.48

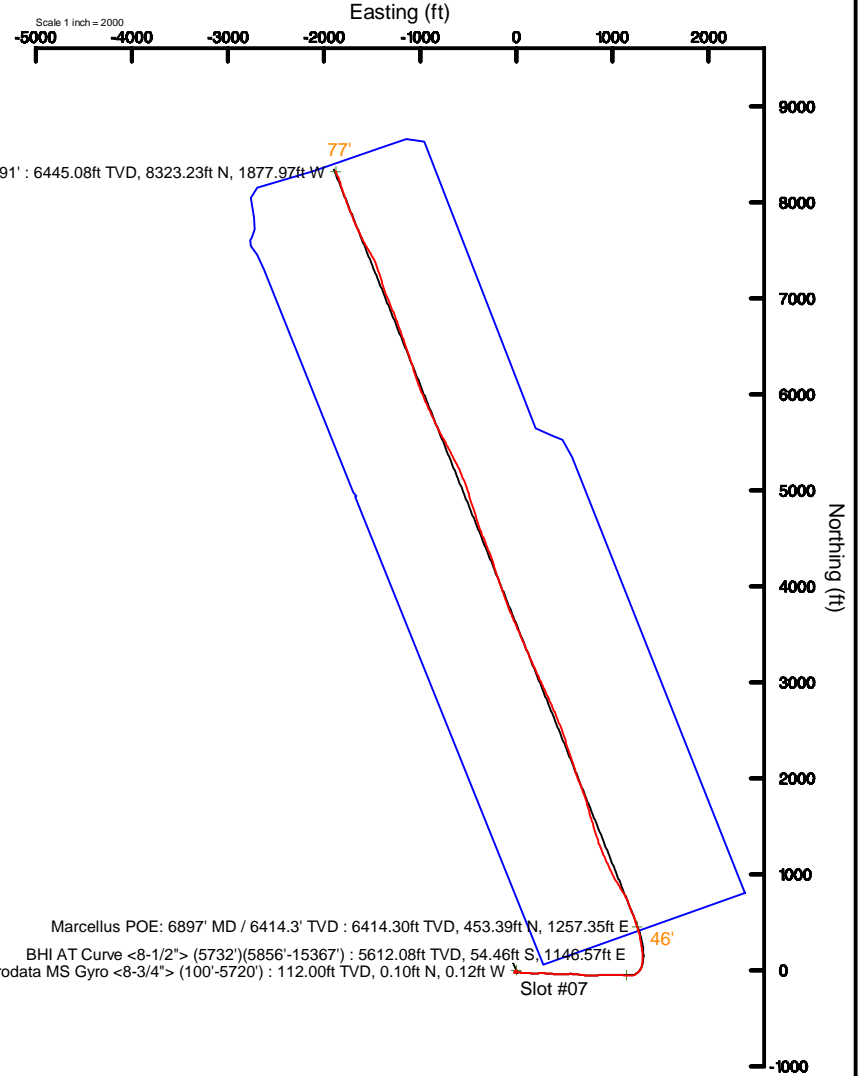
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #07	Tinker Unit 2H	Tinker Unit 2H AWB	Tinker Unit 2H AWP Proj: 15391'
Slot #07	Tinker Unit 2H	Tinker Unit 2H PWB	Tinker Unit 2H PWP Rev-A.0

API: 47-095-02287-0000
 BHI Job #: 8233007
 Rig: Patterson 342
 Duration: 11/5/2016-11/10/2016

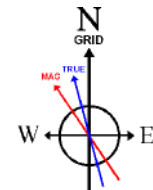
BHI AT Curve <8-1/2"> (5732')(5856'-15367') : 23.08° Inc, 5856.00ft MD, 5612.08ft TVD, -477.10ft VS

Marcellus POE: 6897' MD / 6414.3' TVD : 67.55° Inc, 6897.00ft MD, 6414.30ft TVD, -46.90ft VS

Projected MD at TD: 15391' : 90.80° Inc, 15391.00ft MD, 6445.08ft TVD, 8424.48ft VS



Marcellus POE: 6897' MD / 6414.3' TVD : 6414.30ft TVD, 453.39ft N, 1257.35ft E
 BHI AT Curve <8-1/2"> (5732')(5856'-15367') : 5612.08ft TVD, 54.46ft S, 1146.57ft E
 Gyrodata MS Gyro <8-3/4"> (100'-5720') : 112.00ft TVD, 0.10ft N, 0.12ft W



User specified Dip: 66.69° Field: 52032 nT
 Magnetic North is 7.76 degrees West of True North (at 11/2/2016)
 Grid North is 0.02 degrees East of True North
 To correct azimuth from True to Grid subtract 0.02 degrees
 To correct azimuth from Magnetic to Grid subtract 7.78 degrees

Vertical Section (ft)
 Azimuth 338.16° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker 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	Edsaryar
Scale	0.999600	Report Generated	11/12/2016 at 12:16:43 PM
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Tinker_Unit_2H_AWP_Proj__15391_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-18.21	8.65	1650549.49	14295916.32	39°22'04.700"N	80°57'50.930"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 #07)	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	338.16°



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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Field	Tyler	Wellbore	Tinker Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (183 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 [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	308.840	0.00	0.00	0.00	0.00	1650549.49	14295916.32	39°22'04.700"N	80°57'50.930"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	308.840	25.00	0.00	0.00	0.00	1650549.49	14295916.32	39°22'04.700"N	80°57'50.930"W	0.00	0.000	0.00	0.00	0.00	
112.00	0.210	308.840	112.00	0.14	0.10	-0.12	1650549.37	14295916.42	39°22'04.701"N	80°57'50.932"W	0.16	308.840	0.24	0.24	-58.80	Gyrodata MS Gyro <8-3/4"> (100'-5720')
212.00	0.130	334.310	212.00	0.41	0.32	-0.32	1650549.17	14295916.64	39°22'04.703"N	80°57'50.934"W	0.45	315.095	0.11	-0.08	25.47	
312.00	0.110	334.980	312.00	0.62	0.51	-0.41	1650549.08	14295916.83	39°22'04.705"N	80°57'50.935"W	0.65	321.286	0.02	-0.02	0.67	
412.00	0.100	338.150	412.00	0.80	0.67	-0.48	1650549.01	14295916.99	39°22'04.707"N	80°57'50.936"W	0.83	324.616	0.01	-0.01	3.17	
512.00	0.300	316.930	512.00	1.14	0.95	-0.69	1650548.80	14295917.27	39°22'04.709"N	80°57'50.939"W	1.17	323.902	0.21	0.20	-21.22	
612.00	0.960	254.870	611.99	1.48	0.92	-1.68	1650547.81	14295917.24	39°22'04.709"N	80°57'50.951"W	1.91	298.718	0.86	0.66	-62.06	
712.00	2.660	235.880	711.94	1.08	-0.60	-4.41	1650545.08	14295915.72	39°22'04.694"N	80°57'50.986"W	4.45	262.233	1.78	1.70	-18.99	
812.00	3.700	222.960	811.79	-0.79	-4.26	-8.53	1650540.97	14295912.06	39°22'04.658"N	80°57'51.039"W	9.53	243.433	1.26	1.04	-12.92	
912.00	4.420	207.140	911.54	-4.69	-10.05	-12.48	1650537.01	14295906.27	39°22'04.601"N	80°57'51.089"W	16.03	231.152	1.32	0.72	-15.82	
1012.00	4.700	200.130	1011.22	-10.26	-17.33	-15.65	1650533.84	14295899.00	39°22'04.529"N	80°57'51.129"W	23.35	222.087	0.62	0.28	-7.01	
1112.00	2.840	175.820	1111.01	-15.67	-23.65	-16.88	1650532.61	14295892.68	39°22'04.466"N	80°57'51.145"W	29.06	215.521	2.41	-1.86	-24.31	
1212.00	1.820	143.340	1210.93	-19.57	-27.39	-15.75	1650533.74	14295888.94	39°22'04.429"N	80°57'51.131"W	31.60	209.901	1.63	-1.02	-32.48	
1312.00	1.250	115.680	1310.89	-21.91	-29.14	-13.82	1650535.67	14295887.19	39°22'04.412"N	80°57'51.106"W	32.25	205.376	0.92	-0.57	-27.66	
1412.00	0.900	63.090	1410.88	-22.64	-29.26	-12.14	1650537.36	14295887.07	39°22'04.411"N	80°57'51.085"W	31.68	202.533	1.00	-0.35	-52.59	
1512.00	0.680	334.540	1510.87	-21.98	-28.37	-11.69	1650537.80	14295887.96	39°22'04.420"N	80°57'51.079"W	30.68	202.403	1.11	-0.22	-88.55	
1612.00	0.970	295.740	1610.86	-20.76	-27.46	-12.71	1650536.78	14295888.87	39°22'04.429"N	80°57'51.092"W	30.26	204.836	0.61	0.29	-38.80	
1712.00	0.590	261.790	1710.85	-20.02	-27.17	-13.98	1650535.51	14295889.16	39°22'04.431"N	80°57'51.108"W	30.56	207.233	0.58	-0.38	-33.95	
1812.00	0.380	26.320	1810.85	-19.67	-26.95	-14.35	1650535.15	14295889.39	39°22'04.434"N	80°57'51.113"W	30.53	208.030	0.86	-0.21	124.53	
1912.00	2.170	46.450	1910.82	-18.75	-25.34	-12.83	1650536.67	14295890.99	39°22'04.450"N	80°57'51.093"W	28.40	206.844	1.82	1.79	20.13	
2012.00	1.690	45.970	2010.76	-17.50	-23.01	-10.39	1650539.10	14295893.31	39°22'04.473"N	80°57'51.062"W	25.25	204.305	0.48	-0.48	-0.48	
2112.00	1.100	38.240	2110.73	-16.46	-21.24	-8.74	1650540.75	14295895.09	39°22'04.490"N	80°57'51.041"W	22.96	202.370	0.62	-0.59	-7.73	
2212.00	0.870	32.810	2210.72	-15.54	-19.84	-7.73	1650541.76	14295896.48	39°22'04.504"N	80°57'51.029"W	21.30	201.293	0.25	-0.23	-5.43	
2312.00	0.490	356.460	2310.71	-14.70	-18.78	-7.35	1650542.14	14295897.55	39°22'04.514"N	80°57'51.024"W	20.17	201.373	0.56	-0.38	-36.35	
2412.00	0.860	236.750	2410.71	-14.44	-18.76	-8.00	1650541.49	14295897.56	39°22'04.515"N	80°57'51.032"W	20.40	203.099	1.18	0.37	-119.71	
2512.00	0.790	217.100	2510.70	-14.94	-19.72	-9.05	1650540.45	14295896.60	39°22'04.505"N	80°57'51.045"W	21.70	204.638	0.29	-0.07	-19.65	
2612.00	0.730	203.540	2610.69	-15.75	-20.86	-9.72	1650539.78	14295895.47	39°22'04.494"N	80°57'51.054"W	23.01	204.978	0.19	-0.06	-13.56	
2712.00	1.910	95.650	2710.67	-16.96	-21.61	-8.31	1650541.18	14295894.72	39°22'04.486"N	80°57'51.036"W	23.15	201.043	2.24	1.18	-107.89	
2812.00	5.190	90.080	2810.46	-19.42	-21.78	-2.13	1650547.36	14295894.55	39°22'04.485"N	80°57'50.957"W	21.88	185.585	3.29	3.28	-5.57	



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (183 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
2912.00	6.750	94.210	2909.92	-23.69	-22.21	8.26	1650557.74	14295894.11	39°22'04.480"N	80°57'50.825"W	23.70	159.615	1.62	1.56	4.13	
3012.00	10.050	95.730	3008.83	-30.31	-23.52	22.80	1650572.28	14295892.81	39°22'04.467"N	80°57'50.640"W	32.76	135.885	3.31	3.30	1.52	
3112.00	12.200	93.310	3106.95	-38.84	-25.00	42.03	1650591.51	14295891.33	39°22'04.453"N	80°57'50.395"W	48.91	120.741	2.20	2.15	-2.42	
3212.00	14.770	94.620	3204.18	-49.01	-26.64	65.29	1650614.76	14295889.69	39°22'04.436"N	80°57'50.099"W	70.52	112.193	2.59	2.57	1.31	
3312.00	16.060	93.730	3300.58	-60.66	-28.56	91.80	1650641.26	14295887.77	39°22'04.417"N	80°57'49.761"W	96.14	107.283	1.31	1.29	-0.89	
3412.00	18.650	92.260	3396.02	-73.17	-30.09	121.59	1650671.03	14295886.24	39°22'04.402"N	80°57'49.382"W	125.26	103.902	2.63	2.59	-1.47	
3512.00	21.120	94.550	3490.06	-87.71	-32.15	155.53	1650704.96	14295884.18	39°22'04.382"N	80°57'48.950"W	158.82	101.681	2.59	2.47	2.29	
3612.00	24.040	88.720	3582.39	-102.87	-33.13	193.87	1650743.28	14295883.21	39°22'04.372"N	80°57'48.462"W	196.68	99.697	3.68	2.92	-5.83	
3712.00	25.670	87.050	3673.13	-117.04	-31.56	235.86	1650785.26	14295884.77	39°22'04.387"N	80°57'47.927"W	237.97	97.621	1.77	1.63	-1.67	
3812.00	23.320	92.370	3764.13	-132.17	-31.26	277.28	1650826.66	14295885.07	39°22'04.390"N	80°57'47.400"W	279.04	96.433	3.22	-2.35	5.32	
3912.00	24.820	94.960	3855.44	-149.75	-33.90	317.97	1650867.33	14295882.44	39°22'04.364"N	80°57'46.882"W	319.77	96.085	1.83	1.50	2.59	
4012.00	26.420	94.030	3945.60	-168.92	-37.27	361.08	1650910.42	14295879.06	39°22'04.330"N	80°57'46.333"W	362.99	95.894	1.65	1.60	-0.93	
4112.00	27.670	92.960	4034.67	-188.37	-40.04	406.46	1650955.79	14295876.30	39°22'04.303"N	80°57'45.755"W	408.43	95.626	1.34	1.25	-1.07	
4212.00	25.650	89.390	4124.04	-205.95	-41.01	451.30	1651000.60	14295875.33	39°22'04.293"N	80°57'45.184"W	453.16	95.192	2.58	-2.02	-3.57	
4312.00	25.400	88.650	4214.28	-221.30	-40.27	494.38	1651043.67	14295876.07	39°22'04.300"N	80°57'44.635"W	496.02	94.657	0.41	-0.25	-0.74	
4412.00	23.680	87.800	4305.24	-235.55	-38.99	535.89	1651085.16	14295877.34	39°22'04.312"N	80°57'44.107"W	537.31	94.162	1.76	-1.72	-0.85	
4512.00	24.180	90.870	4396.65	-250.21	-38.53	576.44	1651125.70	14295877.80	39°22'04.317"N	80°57'43.591"W	577.72	93.824	1.34	0.50	3.07	
4612.00	24.400	96.560	4487.81	-267.94	-41.20	617.44	1651166.68	14295875.13	39°22'04.290"N	80°57'43.069"W	618.81	93.818	2.35	0.22	5.69	
4712.00	25.030	98.280	4578.65	-288.38	-46.61	658.90	1651208.12	14295869.73	39°22'04.237"N	80°57'42.541"W	660.54	94.046	0.96	0.63	1.72	
4812.00	25.260	94.550	4669.18	-308.49	-51.35	701.10	1651250.31	14295864.99	39°22'04.190"N	80°57'42.003"W	702.98	94.189	1.60	0.23	-3.73	
4912.00	30.020	94.280	4757.74	-328.99	-54.91	747.34	1651296.53	14295861.43	39°22'04.154"N	80°57'41.415"W	749.36	94.202	4.76	4.76	-0.27	
5012.00	28.930	88.090	4844.82	-348.26	-55.97	796.47	1651345.64	14295860.37	39°22'04.144"N	80°57'40.789"W	798.44	94.020	3.23	-1.09	-6.19	
5112.00	26.070	84.590	4933.51	-362.72	-53.09	842.54	1651391.69	14295863.25	39°22'04.172"N	80°57'40.203"W	844.21	93.606	3.28	-2.86	-3.50	
5212.00	24.530	87.650	5023.92	-375.86	-50.17	885.16	1651434.29	14295866.17	39°22'04.200"N	80°57'39.660"W	886.58	93.244	2.02	-1.54	3.06	
5312.00	24.830	88.940	5114.79	-390.24	-48.93	926.89	1651476.01	14295867.41	39°22'04.213"N	80°57'39.128"W	928.18	93.022	0.62	0.30	1.29	
5412.00	22.040	88.000	5206.53	-404.06	-47.89	966.64	1651515.74	14295868.45	39°22'04.223"N	80°57'38.622"W	967.83	92.836	2.81	-2.79	-0.94	
5512.00	21.120	93.410	5299.53	-418.11	-48.30	1003.38	1651552.47	14295868.03	39°22'04.218"N	80°57'38.154"W	1004.55	92.756	2.19	-0.92	5.41	
5612.00	24.530	93.760	5391.69	-434.77	-50.74	1042.09	1651591.16	14295865.60	39°22'04.194"N	80°57'37.662"W	1043.33	92.787	3.41	3.41	0.35	
5712.00	27.130	89.270	5481.70	-451.96	-51.81	1085.62	1651634.67	14295864.53	39°22'04.183"N	80°57'37.107"W	1086.85	92.732	3.25	2.60	-4.49	
5732.00	26.580	89.950	5499.54	-455.26	-51.75	1094.65	1651643.70	14295864.59	39°22'04.184"N	80°57'36.992"W	1095.87	92.707	3.15	-2.75	3.40	



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
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Field	Tyler	Wellbore	Tinker Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (183 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 Rate [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5856.00	23.080	96.470	5612.08	-477.10	-54.46	1146.57	1651695.60	14295861.88	39°22'04.157"N	80°57'36.331"W	1147.86	92.720	3.58	-2.82	5.26	BHI AT Curve <8-1/2"> (5732')(5856'-15367')
5872.00	23.030	96.640	5626.80	-480.08	-55.18	1152.79	1651701.82	14295861.16	39°22'04.150"N	80°57'36.252"W	1154.11	92.740	0.52	-0.31	1.06	
5917.00	23.100	95.290	5668.21	-488.30	-57.01	1170.33	1651719.35	14295859.33	39°22'04.132"N	80°57'36.029"W	1171.72	92.789	1.19	0.16	-3.00	
5964.00	25.400	86.010	5711.07	-495.60	-57.16	1189.57	1651738.59	14295859.18	39°22'04.130"N	80°57'35.784"W	1190.95	92.751	9.46	4.89	-19.74	
6011.00	25.430	74.570	5753.55	-499.82	-53.77	1209.37	1651758.37	14295862.57	39°22'04.163"N	80°57'35.532"W	1210.56	92.546	10.43	0.06	-24.34	
6059.00	25.520	66.210	5796.90	-500.61	-46.86	1228.77	1651777.77	14295869.48	39°22'04.232"N	80°57'35.285"W	1229.66	92.184	7.49	0.19	-17.42	
6103.00	25.660	58.420	5836.59	-498.68	-38.04	1245.56	1651794.55	14295878.29	39°22'04.319"N	80°57'35.071"W	1246.14	91.749	7.65	0.32	-17.70	
6153.00	25.520	48.620	5881.71	-493.24	-25.25	1262.88	1651811.86	14295891.08	39°22'04.445"N	80°57'34.850"W	1263.13	91.145	8.46	-0.28	-19.60	
6200.00	25.770	40.020	5924.09	-485.04	-10.72	1277.05	1651826.02	14295905.60	39°22'04.589"N	80°57'34.670"W	1277.09	90.481	7.93	0.53	-18.30	
6247.00	27.990	29.440	5966.04	-473.31	6.72	1289.05	1651838.02	14295923.04	39°22'04.761"N	80°57'34.517"W	1289.06	89.701	11.20	4.72	-22.51	
6293.00	30.980	19.490	6006.10	-457.66	27.30	1298.31	1651847.28	14295943.61	39°22'04.964"N	80°57'34.399"W	1298.60	88.796	12.45	6.50	-21.63	
6343.00	33.510	12.400	6048.40	-436.57	52.92	1305.57	1651854.54	14295969.22	39°22'05.218"N	80°57'34.306"W	1306.64	87.679	9.09	5.06	-14.18	
6386.00	35.010	8.930	6083.94	-416.16	76.70	1310.04	1651859.00	14295992.99	39°22'05.453"N	80°57'34.249"W	1312.28	86.649	5.73	3.49	-8.07	
6436.00	37.750	4.380	6124.20	-390.09	106.14	1313.43	1651862.39	14296022.42	39°22'05.744"N	80°57'34.206"W	1317.71	85.380	7.69	5.48	-9.10	
6482.00	41.060	359.190	6159.75	-363.34	135.31	1314.29	1651863.26	14296051.57	39°22'06.032"N	80°57'34.195"W	1321.24	84.122	10.15	7.20	-11.28	
6524.00†	43.257	355.546	6190.88	-336.73	163.45	1312.98	1651861.94	14296079.71	39°22'06.310"N	80°57'34.211"W	1323.12	82.904	7.83	5.23	-8.68	Sycamore: 6524' MD / 6190.9' TVD
6530.00	43.580	355.050	6195.24	-332.79	167.56	1312.64	1651861.61	14296083.82	39°22'06.351"N	80°57'34.216"W	1323.30	82.725	7.83	5.38	-8.27	
6577.00	46.110	352.920	6228.57	-300.90	200.52	1309.16	1651858.12	14296116.76	39°22'06.676"N	80°57'34.260"W	1324.42	81.292	6.26	5.38	-4.53	
6625.00	48.660	351.070	6261.06	-266.61	235.49	1304.23	1651853.19	14296151.71	39°22'07.022"N	80°57'34.322"W	1325.32	79.765	6.02	5.31	-3.85	
6661.00†	50.069	350.392	6284.51	-239.94	262.45	1299.83	1651848.79	14296178.66	39°22'07.288"N	80°57'34.378"W	1326.06	78.585	4.17	3.91	-1.88	Middlesex: 6661' MD / 6284.5' TVD
6672.00	50.500	350.190	6291.54	-231.67	270.79	1298.40	1651847.37	14296187.00	39°22'07.371"N	80°57'34.396"W	1326.34	78.219	4.17	3.92	-1.83	
6719.00	51.380	350.000	6321.15	-195.96	306.74	1292.12	1651841.09	14296222.94	39°22'07.726"N	80°57'34.476"W	1328.03	76.646	1.90	1.87	-0.40	
6766.00	53.750	349.680	6349.72	-159.42	343.47	1285.54	1651834.51	14296259.65	39°22'08.089"N	80°57'34.560"W	1330.63	75.041	5.07	5.04	-0.68	
6813.00	58.090	347.460	6376.05	-121.14	381.61	1277.81	1651826.78	14296297.78	39°22'08.466"N	80°57'34.658"W	1333.57	73.372	10.03	9.23	-4.72	
6823.00†	59.234	346.610	6381.25	-112.70	389.94	1275.89	1651824.87	14296306.10	39°22'08.549"N	80°57'34.682"W	1334.14	73.006	13.55	11.44	-8.50	Burket: 6823' MD / 6381.3' TVD
6860.00	63.510	343.630	6398.98	-80.48	421.31	1267.54	1651816.52	14296337.46	39°22'08.859"N	80°57'34.788"W	1335.72	71.614	13.55	11.56	-8.05	
6871.00†	64.707	342.889	6403.78	-70.62	430.78	1264.69	1651813.67	14296346.93	39°22'08.952"N	80°57'34.825"W	1336.04	71.190	12.46	10.89	-6.74	Tully: 6871' MD / 6403.8' TVD
6897.00†	67.551	341.193	6414.30	-46.90	453.39	1257.35	1651806.34	14296369.53	39°22'09.176"N	80°57'34.918"W	1336.60	70.171	12.46	10.94	-6.52	Marcellus POE: 6897' MD / 6414.3' TVD
6907.00	68.650	340.560	6418.03	-37.63	462.16	1254.31	1651803.30	14296378.30	39°22'09.263"N	80°57'34.957"W	1336.75	69.773	12.46	10.99	-6.33	
6954.00	74.490	340.300	6432.89	6.90	504.16	1239.38	1651788.37	14296420.27	39°22'09.678"N	80°57'35.146"W	1338.00	67.864	12.44	12.43	-0.55	



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (183 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
7002.00	79.170	340.230	6443.82	53.59	548.14	1223.60	1651772.60	14296464.24	39°22'10.112"N	80°57'35.347"W	1340.77	65.869	9.75	9.75	-0.15	
7046.00	82.870	340.240	6450.69	97.02	589.03	1208.91	1651757.91	14296505.11	39°22'10.517"N	80°57'35.534"W	1344.77	64.023	8.41	8.41	0.02	
7096.00	86.860	339.250	6455.16	146.79	635.74	1191.67	1651740.68	14296551.80	39°22'10.978"N	80°57'35.753"W	1350.65	61.921	8.22	7.98	-1.98	
7130.00	90.890	338.490	6455.83	180.77	667.44	1179.42	1651728.44	14296583.49	39°22'11.292"N	80°57'35.909"W	1355.18	60.494	12.06	11.85	-2.24	
7190.00	90.920	336.180	6454.88	240.75	722.80	1156.30	1651705.33	14296638.82	39°22'11.839"N	80°57'36.203"W	1363.62	57.991	3.85	0.05	-3.85	
7285.00	90.000	329.330	6454.12	335.27	807.20	1112.84	1651661.88	14296723.20	39°22'12.673"N	80°57'36.756"W	1374.77	54.045	7.27	-0.97	-7.21	
7379.00	89.080	327.560	6454.87	427.92	887.30	1063.65	1651612.71	14296803.26	39°22'13.465"N	80°57'37.382"W	1385.15	50.165	2.12	-0.98	-1.88	
7473.00	90.830	330.770	6454.95	520.74	968.00	1015.48	1651564.56	14296883.93	39°22'14.263"N	80°57'37.995"W	1402.93	46.371	3.89	1.86	3.41	
7567.00	91.140	336.860	6453.33	614.42	1052.30	974.03	1651523.12	14296968.19	39°22'15.096"N	80°57'38.522"W	1433.89	42.788	6.49	0.33	6.48	
7661.00	91.170	334.420	6451.43	708.30	1137.90	935.26	1651484.38	14297053.77	39°22'15.943"N	80°57'39.015"W	1472.94	39.417	2.60	0.03	-2.60	
7755.00	90.000	336.780	6450.47	802.19	1223.50	896.44	1651445.57	14297139.32	39°22'16.789"N	80°57'39.509"W	1516.75	36.230	2.80	-1.24	2.51	
7849.00	89.820	339.840	6450.62	896.18	1310.83	861.70	1651410.84	14297226.62	39°22'17.652"N	80°57'39.951"W	1568.69	33.320	3.26	-0.19	3.26	
7944.00	89.880	343.200	6450.87	991.00	1400.92	831.59	1651380.75	14297316.67	39°22'18.543"N	80°57'40.334"W	1629.15	30.694	3.54	0.06	3.54	
8038.00	90.120	343.360	6450.87	1084.63	1490.94	804.55	1651353.72	14297406.66	39°22'19.433"N	80°57'40.678"W	1694.17	28.352	0.31	0.26	0.17	
8132.00	90.030	343.290	6450.75	1178.25	1580.99	777.58	1651326.75	14297496.68	39°22'20.323"N	80°57'41.021"W	1761.86	26.189	0.12	-0.10	-0.07	
8227.00	89.910	344.910	6450.80	1272.73	1672.35	751.55	1651300.74	14297588.00	39°22'21.226"N	80°57'41.352"W	1833.47	24.199	1.71	-0.13	1.71	
8321.00	89.940	343.460	6450.92	1366.21	1762.79	725.93	1651275.13	14297678.40	39°22'22.120"N	80°57'41.677"W	1906.41	22.382	1.54	0.03	-1.54	
8416.00	90.060	339.360	6450.92	1461.04	1852.82	695.66	1651244.87	14297768.39	39°22'23.010"N	80°57'42.062"W	1979.11	20.579	4.32	0.13	-4.32	
8510.00	89.820	338.870	6451.02	1555.02	1940.64	662.15	1651211.37	14297856.18	39°22'23.878"N	80°57'42.489"W	2050.49	18.840	0.58	-0.26	-0.52	
8604.00	89.940	340.390	6451.21	1648.99	2028.76	629.43	1651178.66	14297944.26	39°22'24.749"N	80°57'42.905"W	2124.16	17.237	1.62	0.13	1.62	
8699.00	89.940	343.780	6451.31	1743.75	2119.14	600.21	1651149.46	14298034.61	39°22'25.642"N	80°57'43.276"W	2202.50	15.814	3.57	0.00	3.57	
8793.00	90.280	341.870	6451.13	1837.44	2208.94	572.45	1651121.71	14298124.38	39°22'26.530"N	80°57'43.629"W	2281.91	14.529	2.06	0.36	-2.03	
8887.00	90.000	339.880	6450.90	1931.33	2297.75	541.66	1651090.93	14298213.15	39°22'27.408"N	80°57'44.021"W	2360.73	13.264	2.14	-0.30	-2.12	
8981.00	89.850	342.690	6451.03	2025.18	2386.77	511.50	1651060.78	14298302.13	39°22'28.288"N	80°57'44.405"W	2440.96	12.096	2.99	-0.16	2.99	
9075.00	90.150	341.030	6451.03	2118.98	2476.10	482.23	1651031.53	14298391.42	39°22'29.171"N	80°57'44.777"W	2522.62	11.021	1.79	0.32	-1.77	
9170.00	90.590	337.860	6450.41	2213.94	2565.03	448.88	1650998.19	14298480.32	39°22'30.050"N	80°57'45.201"W	2604.02	9.926	3.37	0.46	-3.34	
9264.00	89.940	337.320	6449.98	2307.93	2651.93	413.05	1650962.37	14298567.19	39°22'30.909"N	80°57'45.657"W	2683.91	8.853	0.90	-0.69	-0.57	
9358.00	90.030	336.400	6450.00	2401.91	2738.37	376.11	1650925.45	14298653.59	39°22'31.763"N	80°57'46.127"W	2764.08	7.821	0.98	0.10	-0.98	
9452.00	90.220	335.470	6449.80	2495.84	2824.20	337.78	1650887.13	14298739.38	39°22'32.612"N	80°57'46.614"W	2844.33	6.820	1.01	0.20	-0.99	
9545.00	89.880	335.410	6449.72	2588.73	2908.78	299.12	1650848.49	14298823.94	39°22'33.448"N	80°57'47.106"W	2924.12	5.871	0.37	-0.37	-0.06	



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker Unit 2H AWP
Facility	Terry Snider Pad		

WELLPATH DATA (183 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
9639.00	89.820	335.050	6449.96	2682.61	2994.14	259.74	1650809.13	14298909.25	39°22'34.292"N	80°57'47.607"W	3005.38	4.958	0.39	-0.06	-0.38	
9733.00	89.780	335.990	6450.29	2776.51	3079.68	220.79	1650770.19	14298994.77	39°22'35.137"N	80°57'48.103"W	3087.59	4.101	1.00	-0.04	1.00	
9828.00	89.970	334.720	6450.50	2871.39	3166.03	181.18	1650730.59	14299081.08	39°22'35.991"N	80°57'48.607"W	3171.21	3.275	1.35	0.20	-1.34	
9922.00	89.940	337.040	6450.57	2965.31	3251.82	142.77	1650692.20	14299166.83	39°22'36.839"N	80°57'49.096"W	3254.95	2.514	2.47	-0.03	2.47	
10016.00	89.750	336.980	6450.83	3059.29	3338.35	106.05	1650655.50	14299253.33	39°22'37.694"N	80°57'49.563"W	3340.03	1.820	0.21	-0.20	-0.06	
10111.00	89.780	336.970	6451.22	3154.27	3425.78	68.90	1650618.36	14299340.72	39°22'38.559"N	80°57'50.035"W	3426.47	1.152	0.03	0.03	-0.01	
10205.00	89.690	337.160	6451.65	3248.25	3512.35	32.27	1650581.74	14299427.26	39°22'39.414"N	80°57'50.501"W	3512.50	0.526	0.22	-0.10	0.20	
10299.00	89.540	335.960	6452.28	3342.21	3598.59	-5.13	1650544.37	14299513.46	39°22'40.267"N	80°57'50.977"W	3598.59	359.918	1.29	-0.16	-1.28	
10393.00	89.720	336.660	6452.89	3436.16	3684.66	-42.89	1650506.61	14299599.50	39°22'41.118"N	80°57'51.458"W	3684.91	359.333	0.77	0.19	0.74	
10488.00	89.750	337.480	6453.33	3531.14	3772.16	-79.90	1650469.62	14299686.96	39°22'41.983"N	80°57'51.928"W	3773.00	358.787	0.86	0.03	0.86	
10582.00	89.630	340.080	6453.84	3625.13	3859.77	-113.92	1650435.61	14299774.54	39°22'42.849"N	80°57'52.361"W	3861.45	358.309	2.77	-0.13	2.77	
10677.00	89.780	340.830	6454.33	3720.05	3949.30	-145.71	1650403.84	14299864.03	39°22'43.734"N	80°57'52.766"W	3951.98	357.887	0.81	0.16	0.79	
10771.00	89.720	340.750	6454.74	3813.95	4038.06	-176.63	1650372.93	14299952.76	39°22'44.611"N	80°57'53.159"W	4041.92	357.495	0.11	-0.06	-0.09	
10865.00	89.600	342.640	6455.29	3907.76	4127.30	-206.16	1650343.42	14300041.96	39°22'45.493"N	80°57'53.534"W	4132.45	357.140	2.01	-0.13	2.01	
10959.00	89.630	343.090	6455.93	4001.44	4217.13	-233.85	1650315.73	14300131.75	39°22'46.381"N	80°57'53.887"W	4223.60	356.826	0.48	0.03	0.48	
11054.00	89.570	340.030	6456.59	4096.26	4307.24	-263.89	1650285.70	14300221.82	39°22'47.272"N	80°57'54.269"W	4315.31	356.494	3.22	-0.06	-3.22	
11148.00	89.600	337.990	6457.27	4190.24	4394.99	-297.56	1650252.05	14300309.54	39°22'48.139"N	80°57'54.697"W	4405.05	356.127	2.17	0.03	-2.17	
11243.00	90.090	337.840	6457.53	4285.24	4483.02	-333.28	1650216.34	14300397.54	39°22'49.010"N	80°57'55.152"W	4495.39	355.748	0.54	0.52	-0.16	
11337.00	89.780	338.300	6457.63	4379.24	4570.22	-368.39	1650181.25	14300484.70	39°22'49.871"N	80°57'55.598"W	4585.04	355.392	0.59	-0.33	0.49	
11431.00	90.000	342.670	6457.82	4473.14	4658.80	-399.78	1650149.87	14300573.24	39°22'50.747"N	80°57'55.998"W	4675.92	355.095	4.65	0.23	4.65	
11525.00	89.780	342.870	6458.00	4566.84	4748.58	-427.62	1650122.04	14300662.99	39°22'51.635"N	80°57'56.352"W	4767.79	354.854	0.32	-0.23	0.21	
11619.00	89.850	340.490	6458.30	4660.65	4837.81	-457.17	1650092.51	14300752.18	39°22'52.517"N	80°57'56.728"W	4859.36	354.602	2.53	0.07	-2.53	
11713.00	90.770	343.910	6457.79	4754.40	4927.29	-485.90	1650063.79	14300841.63	39°22'53.401"N	80°57'57.093"W	4951.19	354.368	3.77	0.98	3.64	
11807.00	89.940	341.180	6457.21	4848.12	5016.95	-514.09	1650035.61	14300931.26	39°22'54.287"N	80°57'57.452"W	5043.22	354.149	3.04	-0.88	-2.90	
11902.00	89.940	338.370	6457.31	4943.07	5106.08	-546.93	1650002.78	14301020.35	39°22'55.168"N	80°57'57.869"W	5135.29	353.886	2.96	0.00	-2.96	
11996.00	90.000	336.400	6457.36	5037.06	5192.85	-583.08	1649966.65	14301107.09	39°22'56.026"N	80°57'58.329"W	5225.49	353.593	2.10	0.06	-2.10	
12090.00	90.030	333.050	6457.33	5130.87	5277.84	-623.20	1649926.54	14301192.04	39°22'56.866"N	80°57'58.840"W	5314.51	353.266	3.56	0.03	-3.56	
12184.00	89.940	332.210	6457.36	5224.44	5361.32	-666.42	1649883.34	14301275.48	39°22'57.691"N	80°57'59.390"W	5402.58	352.914	0.90	-0.10	-0.89	
12278.00	90.000	332.280	6457.41	5317.93	5444.50	-710.19	1649839.58	14301358.64	39°22'58.514"N	80°57'59.947"W	5490.63	352.568	0.10	0.06	0.07	
12373.00	89.910	331.870	6457.48	5412.40	5528.44	-754.68	1649795.11	14301442.54	39°22'59.344"N	80°58'00.513"W	5579.71	352.227	0.44	-0.09	-0.43	



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker Unit 2H AWP
Facility	Terry Snider Pad		

WELLPATH DATA (183 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
12467.00	89.970	332.250	6457.58	5505.87	5611.48	-798.73	1649751.08	14301525.55	39°23'00.165"N	80°58'01.074"W	5668.04	351.899	0.41	0.06	0.40	
12561.00	89.940	334.630	6457.65	5599.54	5695.56	-840.75	1649709.07	14301609.59	39°23'00.996"N	80°58'01.609"W	5757.28	351.603	2.53	-0.03	2.53	
12655.00	89.910	335.840	6457.78	5693.42	5780.91	-880.13	1649669.71	14301694.91	39°23'01.839"N	80°58'02.110"W	5847.53	351.343	1.29	-0.03	1.29	
12750.00	89.750	335.390	6458.06	5788.32	5867.44	-919.35	1649630.51	14301781.40	39°23'02.695"N	80°58'02.609"W	5939.03	351.095	0.50	-0.17	-0.47	
12844.00	89.750	336.570	6458.47	5882.25	5953.29	-957.61	1649592.26	14301867.22	39°23'03.543"N	80°58'03.096"W	6029.82	350.862	1.26	0.00	1.26	
12938.00	89.820	339.970	6458.82	5976.24	6040.60	-992.41	1649557.48	14301954.49	39°23'04.406"N	80°58'03.538"W	6121.58	350.670	3.62	0.07	3.62	
13032.00	89.880	340.670	6459.07	6070.17	6129.11	-1024.07	1649525.84	14302042.97	39°23'05.281"N	80°58'03.941"W	6214.07	350.515	0.75	0.06	0.74	
13126.00	89.910	340.740	6459.24	6164.08	6217.83	-1055.13	1649494.79	14302131.65	39°23'06.158"N	80°58'04.336"W	6306.72	350.369	0.08	0.03	0.07	
13220.00	89.910	341.910	6459.39	6257.93	6306.88	-1085.23	1649464.70	14302220.66	39°23'07.038"N	80°58'04.719"W	6399.56	350.237	1.24	0.00	1.24	
13314.00	89.820	342.450	6459.61	6351.70	6396.37	-1113.99	1649435.95	14302310.12	39°23'07.923"N	80°58'05.085"W	6492.65	350.120	0.58	-0.10	0.57	
13408.00	89.940	341.710	6459.80	6445.48	6485.81	-1142.91	1649407.04	14302399.52	39°23'08.807"N	80°58'05.453"W	6585.74	350.006	0.80	0.13	-0.79	
13503.00	89.970	340.560	6459.88	6540.35	6575.70	-1173.63	1649376.33	14302489.38	39°23'09.696"N	80°58'05.844"W	6679.62	349.880	1.21	0.03	-1.21	
13597.00	89.880	339.740	6460.00	6634.29	6664.12	-1205.55	1649344.43	14302577.76	39°23'10.570"N	80°58'06.250"W	6772.28	349.746	0.88	-0.10	-0.87	
13691.00	90.030	339.020	6460.08	6728.27	6752.09	-1238.65	1649311.34	14302665.70	39°23'11.439"N	80°58'06.671"W	6864.77	349.605	0.78	0.16	-0.77	
13786.00	89.850	338.360	6460.18	6823.27	6840.60	-1273.18	1649276.82	14302754.17	39°23'12.314"N	80°58'07.111"W	6958.07	349.457	0.72	-0.19	-0.69	
13880.00	89.970	337.850	6460.32	6917.26	6927.82	-1308.23	1649241.79	14302841.35	39°23'13.176"N	80°58'07.557"W	7050.26	349.306	0.56	0.13	-0.54	
13974.00	90.250	336.870	6460.14	7011.25	7014.57	-1344.41	1649205.62	14302928.07	39°23'14.034"N	80°58'08.017"W	7142.25	349.150	1.08	0.30	-1.04	
14068.00	90.120	342.420	6459.84	7105.19	7102.67	-1377.10	1649172.95	14303016.13	39°23'14.905"N	80°58'08.433"W	7234.94	349.027	5.91	-0.14	5.90	
14162.00	89.850	341.980	6459.86	7198.95	7192.17	-1405.83	1649144.22	14303105.60	39°23'15.789"N	80°58'08.799"W	7328.28	348.940	0.55	-0.29	-0.47	
14256.00	90.250	342.840	6459.78	7292.69	7281.77	-1434.24	1649115.83	14303195.17	39°23'16.675"N	80°58'09.160"W	7421.67	348.857	1.01	0.43	0.91	
14351.00	90.680	338.140	6459.01	7387.58	7371.29	-1465.96	1649084.12	14303284.65	39°23'17.560"N	80°58'09.564"W	7515.65	348.752	4.97	0.45	-4.95	
14445.00	90.860	328.040	6457.74	7481.09	7454.99	-1508.44	1649041.66	14303368.32	39°23'18.387"N	80°58'10.104"W	7606.07	348.561	10.75	0.19	-10.74	
14538.00	90.740	329.220	6456.45	7572.79	7534.39	-1556.85	1648993.27	14303447.68	39°23'19.172"N	80°58'10.721"W	7693.56	348.325	1.28	-0.13	1.27	
14633.00	90.770	335.480	6455.19	7667.25	7618.49	-1600.91	1648949.22	14303531.75	39°23'20.004"N	80°58'11.281"W	7784.88	348.133	6.59	0.03	6.59	
14727.00	90.830	333.890	6453.88	7761.06	7703.45	-1641.10	1648909.05	14303616.68	39°23'20.844"N	80°58'11.793"W	7876.32	347.974	1.69	0.06	-1.69	
14821.00	90.770	336.900	6452.57	7854.93	7788.90	-1680.23	1648869.94	14303702.09	39°23'21.688"N	80°58'12.291"W	7968.07	347.827	3.20	-0.06	3.20	
14915.00	90.620	338.490	6451.43	7948.92	7875.86	-1715.90	1648834.28	14303789.01	39°23'22.548"N	80°58'12.745"W	8060.61	347.709	1.70	-0.16	1.69	
15010.00	90.830	339.940	6450.22	8043.89	7964.67	-1749.61	1648800.59	14303877.79	39°23'23.426"N	80°58'13.174"W	8154.57	347.611	1.54	0.22	1.53	
15104.00	90.620	340.120	6449.04	8137.84	8053.01	-1781.71	1648768.50	14303966.09	39°23'24.299"N	80°58'13.582"W	8247.75	347.524	0.29	-0.22	0.19	
15198.00	90.990	341.970	6447.71	8231.70	8141.90	-1812.24	1648737.98	14304054.94	39°23'25.177"N	80°58'13.971"W	8341.14	347.452	2.01	0.39	1.97	



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Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker Unit 2H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (183 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
15292.00	90.650	341.330	6446.37	8325.52	8231.11	-1841.83	1648708.40	14304144.12	39°23'26.059"N	80°58'14.347"W	8434.66	347.387	0.77	-0.36	-0.68	
15367.00	90.800	336.900	6445.42	8400.48	8301.16	-1868.56	1648681.68	14304214.14	39°23'26.752"N	80°58'14.687"W	8508.86	347.314	5.91	0.20	-5.91	
15391.00	90.800	336.900	6445.08	8424.48	8323.23	-1877.97	1648672.27	14304236.21	39°23'26.970"N	80°58'14.807"W	8532.46	347.285	0.00	0.00	0.00	Projected MD at TD: 15391'

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Tinker Unit 2H POE - Rev-2	6417.00	459.80	1260.42	1651809.41	14296375.93	39°22'09.239"N	80°57'34.879"W	point
Tinker Unit 2H BHL - Rev-2	6455.00	8344.79	-1899.45	1648650.80	14304257.75	39°23'27.183"N	80°58'15.081"W	point
Tinker Unit 2H LP - Rev-2	6455.00	633.06	1190.99	1651740.00	14296549.13	39°22'10.952"N	80°57'35.762"W	point

WELLPATH COMPOSITION - Ref Wellbore: Tinker Unit 2H AWB Ref Wellpath: Tinker Unit 2H AWP Proj: 15391'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5732.00	Gyrodata standard - Drop gyro or Multi-shot	01_Gyrodata MS Gyro <8-3/4"> (100'-5720')	Tinker Unit 2H AWB
5732.00	15367.00	BHI AutoTrak Curve (Short)	03_AT Curve (Short) <8-1/2"> (5732')(5856'-15367')	Tinker Unit 2H AWB
15367.00	15391.00	Blind Drilling (std)	Projection to bit	Tinker Unit 2H AWB



Actual Wellpath Report

Tinker Unit 2H AWP Proj: 15391'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Tinker Unit 2H
Field	Tyler	Wellbore	Tinker Unit 2H AWB
Facility	Terry Snider Pad		

COMMENTS

Wellpath general comments

API: 47-095-02287-0000

BHI Job #: 8233007

Rig: Patterson 342

Duration: 11/5/2016-11/10/2016

Gyrodata MS Gyro <8-3/4"> (100'-5720')

BHI AT Curve <8-1/2"> (5732')(5856'-15367')

Sycamore: 6524' MD

Middlesex: 6661' MD

Burket: 6823' MD

Tully: 6871' MD

Marcellus POE: 6897' MD

Projected MD at TD: 15391'