

ANTERO RESOURCES CORPORATION

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

Slot: Slot #09
 Well: Tinker Unit 1H
 Wellbore: Tinker Unit 1H PWB

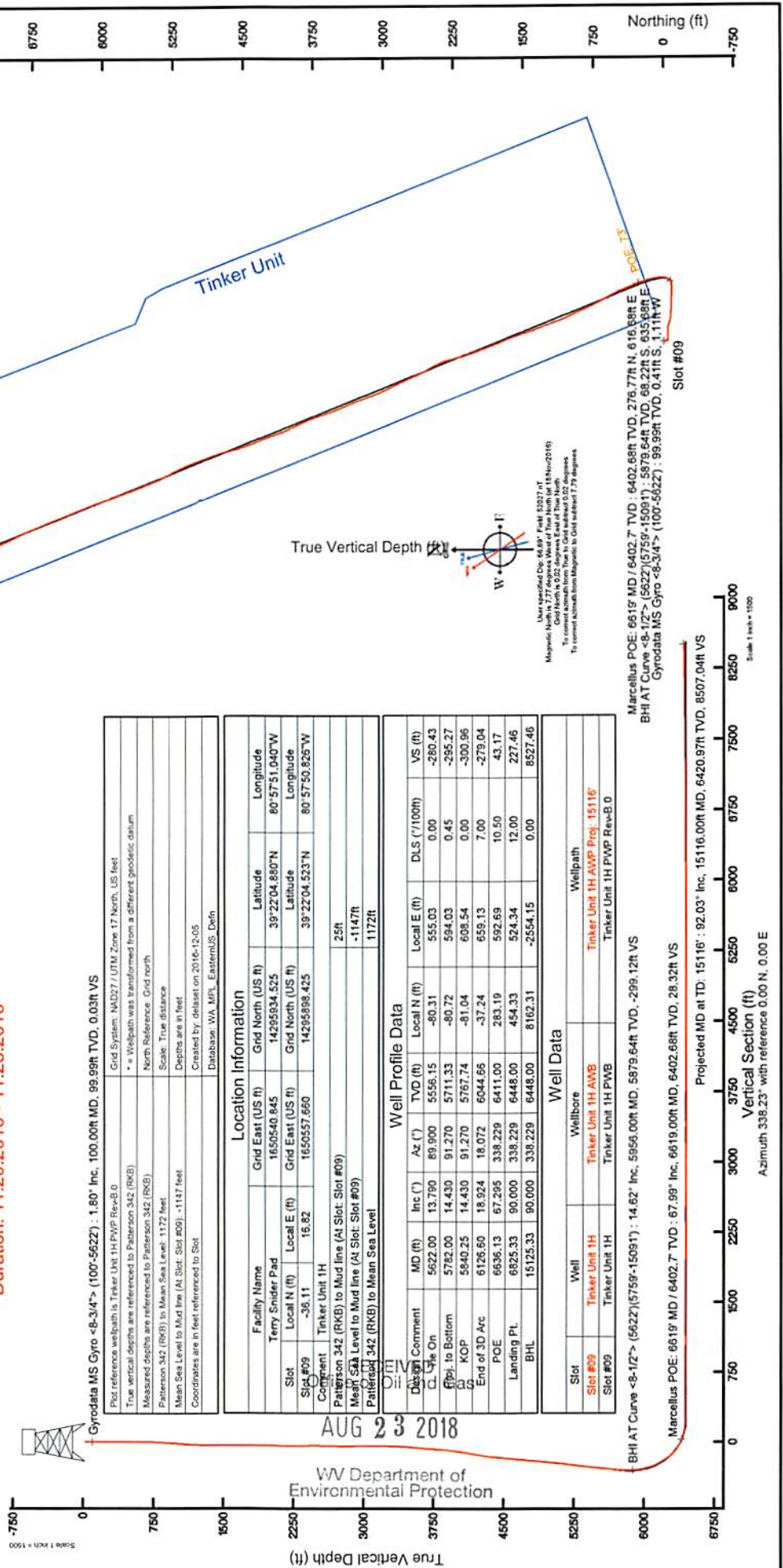


API: 47-095-02375-0000

BHI Job #: 8261509

Rig: Patterson 342

Duration: 11.20.2016 - 11.23.2016



Gyrodatta MS Gyro <8-3/4" > (100'-5622') : 1.80" Inc, 100.00R MD, 99.99R TVD, 0.03R VS

Plot reference wellpath is Tinker Unit 1H PWP Rev-B.0
 Grid System: NAD27 / UTM Zone 17 North, US feet
 * * Wellpath was transformed from a different geoidic datum

Measured depths are referenced to Patterson 342 (RKB)
 Patterson 342 (RKB) to Mean Sea Level: 1172 feet
 Mean Sea Level to Mud line (At Slot: Slot #09) : -1147 feet
 Depths are in feet
 Scale: True distance
 North Reference: Grid north
 Created by: default on 2016-12-05
 Database: WA_MPL_EasternUS_Dein

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Terry Snider Pad	1650540.845	14295034.525	80° 57' 51.040" W
Slot	Local N (ft)	Local E (ft)	Latitude
Slot #09	-36.11	16.82	39° 22' 04.880" N
Component	Tinker Unit 1H		Longitude
Patterson 342 (RKB) to Mud line (At Slot: Slot #09)			80° 57' 50.826" W
Mean Sea Level to Mud line (At Slot: Slot #09)			
Patterson 342 (RKB) to Mean Sea Level			

Well Profile Data									
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)	
C. Use On	5622.00	13.790	89.900	5556.15	-80.31	555.03	0.00	-280.43	
Top to Bottom	5782.00	14.430	91.270	5711.33	-80.72	594.03	0.45	-295.27	
KOP	5840.25	14.430	91.270	5767.74	-81.04	608.54	0.00	-300.96	
End of 3D Arc	6126.60	18.924	16.072	6044.66	-37.24	659.13	7.00	-279.04	
POE	6636.13	67.295	338.229	6411.00	283.19	592.69	10.50	43.17	
Landing Pt.	6925.33	90.000	338.229	6448.00	454.33	524.34	12.00	227.46	
BHL	15125.33	90.000	338.229	6448.00	8162.31	-2554.15	0.00	8527.46	

Well Data		
Slot	Well	Wellbore
Slot #09	Tinker Unit 1H	Tinker Unit 1H AWP Proj: 15116'
Slot #09	Tinker Unit 1H	Tinker Unit 1H PWB Rev-B.0

BHI AT Curve <8-1/2" > (5622') (5759'-1509') : 14.62" Inc, 5956.00R MD, 5879.64R TVD, -299, 12R VS
 Marcellus POE: 6619' MD / 6402.7' TVD : 67.99" Inc, 6619.00R MD, 6402.68R TVD, -28.32R VS
 Projected MD at TD: 15116' : 92.03" Inc, 15116.00R MD, 6420.97R TVD, 8507.04R VS

Scale 1 inch = 1500
 Vertical Section (ft)
 Azimuth 338.23" with reference 0.00 N, 0.00 E

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Actual Wellpath Report

Tinker Unit 1H AWP Proj: 15116'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Tyler County, WV	Well	Tinker Unit 1H
Field	Tyler	Wellbore	Tinker Unit 1H 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	Delaset
Scale	0.999600	Report Generated	05/Dec/2016 at 16:54
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EasternUS_Defn/Tinker_Unit_1H_AWP_Proj_15116_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-36.11	16.82	1650557.66	14295898.43	39°22'04.523"N	80°57'50.826"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 #09)	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	338.23°

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Area	Tyler County, WV	Well	Tinker Unit 1H
Field	Tyler	Wellbore	Tinker Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (177 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	0.00	249.890	0.00	0.00	0.00	0.00	1650557.66	14295898.43	39°22'04.523"N	80°57'50.826"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	249.890	25.00	0.00	0.00	0.00	1650557.66	14295898.43	39°22'04.523"N	80°57'50.826"W	0.00	0.000	0.00	0.00	0.00	
100.00	1.800	249.890	99.99	0.03	-0.41	-1.11	1650556.55	14295898.02	39°22'04.519"N	80°57'50.840"W	1.18	249.890	2.40	2.40	-146.81	Gyrodata MS Gyro <8-3/4"> (100'-5622')
200.00	1.060	252.270	199.96	0.14	-1.23	-3.46	1650554.20	14295897.20	39°22'04.511"N	80°57'50.870"W	3.67	250.489	0.74	-0.74	2.38	
300.00	0.510	253.490	299.95	0.25	-1.63	-4.77	1650552.89	14295896.79	39°22'04.507"N	80°57'50.887"W	5.04	251.081	0.55	-0.55	1.22	
400.00	0.240	201.580	399.94	0.14	-1.96	-5.27	1650552.39	14295896.47	39°22'04.504"N	80°57'50.893"W	5.62	249.649	0.41	-0.27	-51.91	
500.00	0.240	200.480	499.94	-0.17	-2.35	-5.42	1650552.24	14295896.08	39°22'04.500"N	80°57'50.895"W	5.91	246.600	0.00	0.00	-1.10	
600.00	0.530	219.380	599.94	-0.55	-2.90	-5.79	1650551.87	14295895.53	39°22'04.494"N	80°57'50.900"W	6.48	243.392	0.31	0.29	18.90	
700.00	1.440	181.660	699.93	-1.92	-4.51	-6.12	1650551.54	14295893.91	39°22'04.478"N	80°57'50.904"W	7.61	233.588	1.07	0.91	-37.72	
800.00	2.640	171.990	799.86	-5.31	-8.05	-5.84	1650551.83	14295890.38	39°22'04.443"N	80°57'50.900"W	9.94	215.937	1.24	1.20	-9.67	
900.00	3.650	155.940	899.71	-10.73	-13.24	-4.22	1650553.44	14295885.19	39°22'04.392"N	80°57'50.880"W	13.89	197.670	1.33	1.01	-16.05	
1000.00	4.400	147.390	999.46	-17.68	-19.38	-0.85	1650556.81	14295879.06	39°22'04.331"N	80°57'50.837"W	19.39	182.518	0.96	0.75	-8.55	
1100.00	4.630	142.360	1099.15	-25.33	-25.80	3.68	1650561.34	14295872.63	39°22'04.268"N	80°57'50.779"W	26.06	171.883	0.46	0.23	-5.03	
1200.00	3.250	134.780	1198.92	-31.81	-31.00	8.16	1650565.81	14295867.44	39°22'04.217"N	80°57'50.722"W	32.05	165.256	1.47	-1.38	-7.58	
1300.00	1.810	127.980	1298.82	-35.78	-33.97	11.41	1650569.07	14295864.47	39°22'04.187"N	80°57'50.681"W	35.83	161.425	1.47	-1.44	-6.80	
1400.00	0.340	93.310	1398.80	-37.27	-34.95	12.96	1650570.61	14295863.49	39°22'04.177"N	80°57'50.661"W	37.28	159.663	1.54	-1.47	-34.67	
1500.00	1.160	284.820	1498.79	-36.79	-34.71	12.27	1650569.93	14295863.73	39°22'04.180"N	80°57'50.670"W	36.82	160.528	1.49	0.82	-168.49	
1600.00	1.510	271.110	1598.76	-35.67	-34.43	9.98	1650567.63	14295864.01	39°22'04.183"N	80°57'50.699"W	35.84	163.839	0.47	0.35	-13.71	
1700.00	0.310	238.920	1698.75	-35.20	-34.54	8.43	1650566.08	14295863.90	39°22'04.182"N	80°57'50.719"W	35.56	166.288	1.26	-1.20	-32.19	
1800.00	0.940	85.950	1798.75	-35.50	-34.62	9.01	1650566.67	14295863.82	39°22'04.181"N	80°57'50.711"W	35.78	165.407	1.22	0.63	-152.97	
1900.00	2.400	71.840	1898.70	-35.88	-33.91	11.82	1650569.48	14295864.53	39°22'04.188"N	80°57'50.676"W	35.91	160.781	1.51	1.46	-14.11	
2000.00	2.510	81.190	1998.61	-36.50	-32.93	15.98	1650573.63	14295865.51	39°22'04.198"N	80°57'50.623"W	36.60	154.117	0.41	0.11	9.35	
2100.00	2.170	134.930	2098.54	-38.73	-33.93	19.48	1650577.13	14295864.51	39°22'04.188"N	80°57'50.578"W	39.12	150.136	2.14	-0.34	53.74	
2200.00	1.610	210.220	2198.50	-41.34	-36.48	20.11	1650577.77	14295861.96	39°22'04.162"N	80°57'50.570"W	41.66	151.128	2.35	-0.56	75.29	
2300.00	1.300	319.050	2298.48	-41.13	-36.84	18.66	1650576.32	14295861.60	39°22'04.159"N	80°57'50.589"W	41.29	153.131	2.37	-0.31	108.83	
2400.00	1.850	321.430	2398.44	-38.51	-34.72	16.91	1650574.57	14295863.72	39°22'04.180"N	80°57'50.611"W	38.62	154.026	0.55	0.55	2.38	
2500.00	2.230	226.760	2498.40	-37.68	-34.79	14.49	1650572.14	14295863.65	39°22'04.179"N	80°57'50.642"W	37.68	157.389	3.01	0.38	-94.67	
2600.00	2.470	203.320	2598.32	-39.91	-38.10	12.22	1650569.87	14295860.34	39°22'04.146"N	80°57'50.671"W	40.01	162.219	0.98	0.24	-23.44	
2700.00	2.040	199.290	2698.24	-42.78	-41.76	10.78	1650568.43	14295856.68	39°22'04.110"N	80°57'50.689"W	43.13	165.528	0.46	-0.43	-4.03	
2800.00	0.890	95.940	2798.22	-44.48	-43.52	10.96	1650568.62	14295854.92	39°22'04.093"N	80°57'50.687"W	44.88	165.862	2.41	-1.15	-103.35	

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Operator	Area	Field	Facility
ANTERO RESOURCES CORPORATION	Tyler County, WV	Tyler	Terry Snider Pad
Slot	Well	Wellbore	
Slot #09	Tinker Unit 1H	Tinker Unit 1H AWB	

WELLPATH DATA (177 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir				
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(°)	(°)	(m)	(°)				
Comments	Turn Rate	F(100ft)	Build Rate	F(100ft)	DLS	F(100ft)	Closure Dir	F(100ft)	Dir	F(100ft)	Rate	F(100ft)				
2900.00	1.600	19.770	2898.20	-43.80	-42.29	12.21	1650569.86	14295856.16	39°22'04.105"N	80°57'50.671"W	44.01	163.898	1.63	0.71	-76.17	0.36
3000.00	1.630	20.130	2998.16	-41.69	-39.64	13.17	1650570.82	14295858.81	39°22'04.131"N	80°57'50.659"W	41.77	161.622	0.03	0.71	-76.17	0.36
3100.00	1.180	67.070	3098.13	-40.61	-37.90	14.61	1650572.26	14295860.54	39°22'04.148"N	80°57'50.640"W	40.62	158.924	1.19	0.71	-76.17	0.36
3200.00	3.410	88.910	3198.05	-41.64	-37.44	18.53	1650576.18	14295861.00	39°22'04.153"N	80°57'50.590"W	41.78	153.671	2.36	0.71	-76.17	0.36
3300.00	5.600	88.870	3297.73	-44.41	-37.29	26.38	1650584.03	14295861.15	39°22'04.154"N	80°57'50.490"W	45.68	144.721	2.19	0.71	-76.17	0.36
3400.00	7.790	93.670	3397.04	-49.05	-37.63	38.02	1650595.67	14295860.81	39°22'04.151"N	80°57'50.342"W	53.49	134.699	2.26	0.71	-76.17	0.36
3500.00	9.500	96.520	3495.90	-55.87	-39.00	52.99	1650610.63	14295859.44	39°22'04.137"N	80°57'50.152"W	65.79	126.352	1.76	0.71	-76.17	0.36
3600.00	11.590	93.670	3594.21	-64.10	-40.58	71.21	1650628.85	14295857.86	39°22'04.122"N	80°57'49.919"W	81.96	119.675	2.15	0.71	-76.17	0.36
3700.00	13.340	89.090	3691.85	-72.52	-41.04	92.78	1650650.40	14295857.40	39°22'04.117"N	80°57'49.645"W	101.45	113.861	2.01	0.71	-76.17	0.36
3800.00	13.290	85.470	3789.17	-80.03	-39.95	115.77	1650673.38	14295858.50	39°22'04.128"N	80°57'49.352"W	122.47	109.037	0.84	0.71	-76.17	0.36
3900.00	12.810	90.420	3886.59	-87.63	-39.12	138.31	1650695.92	14295859.32	39°22'04.136"N	80°57'49.065"W	143.74	105.793	1.22	0.71	-76.17	0.36
4000.00	13.360	105.570	3984.02	-98.83	-42.30	160.54	1650718.13	14295856.14	39°22'04.104"N	80°57'48.782"W	166.02	104.763	3.46	0.71	-76.17	0.36
4100.00	14.140	108.510	4081.15	-113.73	-49.28	183.25	1650740.83	14295849.16	39°22'04.035"N	80°57'48.493"W	189.76	105.053	1.05	0.71	-76.17	0.36
4200.00	15.200	108.090	4177.89	-130.03	-57.23	207.29	1650764.87	14295841.22	39°22'03.957"N	80°57'48.187"W	215.05	105.434	1.07	0.71	-76.17	0.36
4300.00	15.640	104.570	4274.32	-146.37	-64.67	232.72	1650790.29	14295833.78	39°22'03.883"N	80°57'47.863"W	241.64	105.630	0.99	0.71	-76.17	0.36
4400.00	12.800	90.750	4371.29	-158.56	-68.19	256.77	1650814.33	14295830.26	39°22'03.848"N	80°57'47.557"W	265.67	104.872	4.34	0.71	-76.17	0.36
4500.00	12.660	94.650	4468.80	-167.75	-69.24	278.94	1650836.49	14295829.22	39°22'03.838"N	80°57'47.275"W	287.41	103.940	0.87	0.71	-76.17	0.36
4600.00	13.920	92.280	4566.08	-177.61	-70.62	302.05	1650859.59	14295827.84	39°22'03.824"N	80°57'46.980"W	310.20	103.159	1.19	0.71	-76.17	0.36
4700.00	13.940	91.520	4663.14	-187.27	-71.41	326.11	1650883.64	14295827.04	39°22'03.816"N	80°57'46.674"W	333.84	102.352	0.18	0.71	-76.17	0.36
4800.00	13.580	90.410	4760.27	-196.46	-71.82	349.89	1650907.41	14295826.64	39°22'03.812"N	80°57'46.371"W	357.19	101.599	0.45	0.71	-76.17	0.36
4900.00	14.000	90.280	4857.39	-205.44	-71.96	373.73	1650931.24	14295826.49	39°22'03.810"N	80°57'46.068"W	380.59	100.899	0.42	0.71	-76.17	0.36
5000.00	15.060	92.080	4954.36	-214.63	-72.10	398.15	1650955.65	14295826.35	39°22'03.809"N	80°57'45.757"W	404.63	100.265	0.27	0.71	-76.17	0.36
5100.00	15.000	92.080	5051.10	-224.53	-72.65	423.46	1650980.95	14295825.80	39°22'03.803"N	80°57'45.435"W	429.65	99.736	0.90	0.71	-76.17	0.36
5200.00	14.370	92.960	5147.82	-234.97	-73.77	448.83	1651006.31	14295824.69	39°22'03.792"N	80°57'45.112"W	454.86	99.333	0.73	0.71	-76.17	0.36
5300.00	14.190	96.780	5244.73	-246.02	-75.85	473.40	1651030.87	14295822.60	39°22'03.771"N	80°57'44.799"W	479.44	99.103	0.96	0.71	-76.17	0.36
5400.00	15.910	91.840	5341.30	-257.37	-77.74	499.27	1651056.73	14295820.71	39°22'03.753"N	80°57'44.469"W	505.29	98.851	2.14	0.71	-76.17	0.36
5500.00	14.450	94.670	5437.81	-268.41	-79.20	525.41	1651082.86	14295819.26	39°22'03.738"N	80°57'44.137"W	531.34	98.572	1.64	0.71	-76.17	0.36
5600.00	13.810	90.390	5534.79	-278.47	-80.30	549.78	1651107.22	14295818.16	39°22'03.727"N	80°57'43.826"W	555.61	98.309	1.22	0.71	-76.17	0.36
5622.00	13.790	89.900	5556.15	-280.43	-80.31	555.03	1651112.46	14295818.15	39°22'03.727"N	80°57'43.759"W	560.81	98.233	0.54	0.71	-76.17	0.36
5759.00	14.950	88.070	5688.86	-292.46	-79.68	589.02	1651146.44	14295818.77	39°22'03.733"N	80°57'43.327"W	594.38	97.704	0.91	0.71	-76.17	0.36

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09	
Area	Tyler County, WV	Well	Tinker Unit 1H	
Field	Tyler	Wellbore	Tinker Unit 1H AWB	
Facility	Terry Snider Pad			

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MD	Inclination	Azimuth	TVD	Vert Sect	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	ft	ft
5775.00	14.730	87.680	5704.33	-293.84	-79.53	593.11	1651150.53	14295818.92	39°22'03.73"N	80°57'43.27"W	598.42	97.637	1.51	-1.37	-2.44	
5815.00	14.290	87.250	5743.06	-297.14	-79.09	603.12	1651160.54	14295819.37	39°22'03.73"N	80°57'43.147"W	608.29	97.471	1.13	-1.10	-1.07	
5870.00	14.450	79.330	5796.34	-300.67	-77.49	616.65	1651174.06	14295820.96	39°22'03.75"N	80°57'42.975"W	621.50	97.163	3.58	0.29	-14.40	
5916.00	14.430	61.870	5840.91	-301.14	-73.73	627.35	1651184.76	14295824.73	39°22'03.792"N	80°57'42.839"W	631.67	96.703	9.43	-0.04	-37.96	
5966.00†	14.625	51.260	5879.64	-299.12	-68.22	635.68	1651193.09	14295830.24	39°22'03.846"N	80°57'42.732"W	639.33	96.125	6.66	0.49	-26.52	BH AT Curve <8-1/2"> (5622)/(5759-15091)
5964.00	14.720	49.190	5887.38	-298.49	-66.92	637.24	1651194.65	14295831.53	39°22'03.859"N	80°57'42.713"W	640.75	95.996	6.66	1.19	-25.88	
6013.00	15.340	41.600	5934.70	-293.55	-58.00	646.26	1651203.66	14295840.44	39°22'03.947"N	80°57'42.598"W	648.66	95.129	4.21	1.27	-15.49	
6013.00	15.340	41.600	5934.70	-293.55	-58.00	646.26	1651203.66	14295840.44	39°22'03.947"N	80°57'42.598"W	648.66	95.129	4.21	1.27	-15.49	
6099.00	17.460	33.690	5978.83	-286.91	-47.71	654.13	1651211.52	14295850.73	39°22'04.049"N	80°57'42.497"W	655.66	94.172	6.68	4.61	-17.20	
6106.00	19.870	26.320	6023.37	-277.57	-34.68	661.58	1651218.98	14295863.76	39°22'04.178"N	80°57'42.402"W	662.49	93.001	7.17	5.13	-15.66	
6153.00	22.390	19.350	6067.21	-265.49	-19.07	668.09	1651225.48	14295879.36	39°22'04.332"N	80°57'42.320"W	668.36	91.635	7.56	5.36	-14.83	
6200.00	25.960	10.770	6110.09	-250.07	-0.51	672.98	1651230.37	14295897.92	39°22'04.515"N	80°57'42.257"W	672.98	90.043	10.64	7.60	-18.26	
6247.00	29.340	1.730	6151.74	-230.82	21.12	675.25	1651232.64	14295919.54	39°22'04.729"N	80°57'42.228"W	675.58	88.208	11.44	7.19	-19.23	
6294.00	32.120	3.650	6192.15	-208.30	45.10	674.55	1651231.94	14295943.50	39°22'04.966"N	80°57'42.237"W	676.05	86.175	9.27	5.91	-13.98	
6341.00	34.910	3.510	6231.33	-183.25	70.66	671.54	1651228.93	14295969.26	39°22'05.221"N	80°57'42.275"W	675.27	83.976	7.23	5.94	-7.49	
6388.00	39.210	3.490	6268.83	-155.57	98.77	666.77	1651224.17	14295997.15	39°22'05.496"N	80°57'42.336"W	674.05	81.574	9.70	9.15	-5.36	
6399.00†	348.736	6277.27	-148.63	105.70	665.42	1651222.81	14296004.08	14296004.08	39°22'05.565"N	80°57'42.353"W	673.76	80.974	13.34	13.15	-3.49	Middlesex: 6399' MD / 6277.3' TVD
6456.00	45.400	347.620	6303.58	-124.44	129.73	660.38	1651217.77	14296028.11	39°22'05.803"N	80°57'42.417"W	673.00	78.866	13.34	13.18	-3.10	
6482.00	51.820	346.990	6334.64	-89.64	164.11	652.62	1651210.02	14296062.47	39°22'06.142"N	80°57'42.515"W	672.94	75.885	13.70	13.66	-1.34	
6530.00	57.950	344.340	6362.24	-50.73	202.12	642.87	1651200.28	14296100.46	39°22'06.518"N	80°57'42.639"W	673.90	72.547	13.54	12.77	-5.52	
6546.00†	342.787	6370.52	-37.10	215.25	639.00	1651196.40	14296113.59	14296113.59	39°22'06.648"N	80°57'42.689"W	674.28	71.384	13.82	11.05	-9.71	Burkett: 6546' MD / 6370.5' TVD
6570.00	63.190	339.930	6385.33	-9.91	241.04	630.29	1651187.69	14296139.37	39°22'06.903"N	80°57'42.799"W	674.81	69.072	13.82	11.20	-9.22	
6597.00†	65.473	339.193	6393.99	8.11	257.93	623.99	1651181.40	14296156.25	39°22'07.070"N	80°57'42.880"W	675.20	67.542	11.89	11.41	-3.68	fully: 6597' MD / 6394.0' TVD
6619.00†	67.988	338.413	6402.68	28.32	276.77	616.68	1651174.10	14296175.09	39°22'07.256"N	80°57'42.972"W	675.94	65.829	11.89	11.43	-3.55	Marcellus POE: 6619' MD / 6402.7' TVD
6624.00	68.560	338.240	6404.53	32.96	281.09	614.97	1651172.38	14296179.40	39°22'07.299"N	80°57'42.994"W	676.16	65.436	11.89	11.44	-3.47	
6669.00	74.040	337.640	6418.96	75.57	320.58	598.96	1651156.38	14296218.87	39°22'07.689"N	80°57'43.198"W	679.36	61.844	12.24	12.18	-1.33	
6719.00	78.380	337.240	6430.87	124.11	365.41	580.34	1651137.76	14296263.69	39°22'08.132"N	80°57'43.435"W	685.79	57.804	8.71	8.68	-0.80	
6767.00	84.390	337.420	6438.06	171.54	409.18	562.05	1651119.49	14296307.44	39°22'08.565"N	80°57'43.667"W	695.22	53.945	12.53	12.52	0.37	
6813.00	90.000	337.680	6440.31	217.46	451.62	544.52	1651101.96	14296349.87	39°22'08.984"N	80°57'43.890"W	707.43	50.327	12.21	12.20	0.57	
6907.00	90.280	333.960	6440.88	311.36	537.36	506.02	1651063.48	14296435.57	39°22'09.832"N	80°57'44.380"W	738.11	43.279	3.97	0.30	-3.96	
7002.00	89.970	330.370	6439.87	405.82	621.36	461.67	1651019.14	14296519.53	39°22'10.662"N	80°57'44.944"W	774.09	36.612	3.79	-0.33	-3.78	

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Terry Snider Pad
Slot	Slot #09
Well	Tinker Unit 1H
Wellbore	Tinker Unit 1H AWP

REFERENCE WELLPATH IDENTIFICATION		WELLPATH DATA (177 stations)														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(°)	(°)	(m)	(°)	(m)	(°/100ft)	(°/100ft)	
7096.00	89.350	6440.43	499.10	703.69	476.33	1650973.82	14296601.84	39°22'11.47"N	80°57'45.52"W	817.63	30.610	1.81	-0.66	1.68	3.17	
7190.00	88.650	6442.07	592.74	787.75	374.31	1650931.82	14296685.86	39°22'12.30"N	80°57'46.05"W	872.16	25.415	3.26	-0.74	3.17	1.93	
7285.00	90.520	6442.76	687.65	874.42	335.44	1650892.96	14296772.50	39°22'13.16"N	80°57'46.55"W	936.55	20.987	2.75	-1.97	1.93	3.33	
7379.00	90.340	6442.05	781.50	959.74	296.01	1650853.55	14296857.78	39°22'14.00"N	80°57'47.05"W	1004.35	17.141	3.34	-0.19	3.33	2.98	
7473.00	89.630	6442.08	875.35	1044.94	256.33	1650813.89	14296942.95	39°22'14.85"N	80°57'47.55"W	1075.92	13.783	3.07	-0.76	2.98	2.47	
7567.00	89.630	6442.69	969.33	1131.83	220.50	1650778.07	14297029.81	39°22'15.70"N	80°57'48.03"W	1153.11	11.024	2.47	0.00	2.47	1.78	
7661.00	89.600	6443.32	1063.30	1219.93	187.71	1650745.30	14297117.86	39°22'16.57"N	80°57'48.43"W	1234.28	8.748	1.78	-0.03	1.78	1.31	
7755.00	91.200	6442.81	1157.26	1308.14	155.26	1650712.86	14297206.04	39°22'17.45"N	80°57'48.84"W	1317.32	6.769	2.00	-1.51	1.31	0.31	
7849.00	90.180	6441.82	1251.24	1395.92	121.65	1650679.26	14297293.78	39°22'18.31"N	80°57'49.27"W	1401.21	4.981	0.95	-0.89	0.31	2.61	
7944.00	89.230	6442.31	1346.18	1485.26	89.38	1650647.00	14297383.09	39°22'19.20"N	80°57'49.68"W	1487.95	3.444	2.80	-1.00	2.61	0.57	
8038.00	90.920	6442.19	1440.01	1574.48	59.79	1650617.42	14297472.27	39°22'20.08"N	80°57'50.05"W	1575.61	2.175	1.89	1.80	0.57	-4.24	
8132.00	90.710	6440.85	1533.94	1662.74	27.53	1650585.18	14297560.50	39°22'20.95"N	80°57'50.45"W	1662.97	0.949	4.25	-0.22	-4.24	-0.85	
8227.00	89.290	6440.85	1628.93	1750.52	-8.79	1650548.88	14297644.24	39°22'21.82"N	80°57'50.92"W	1750.54	359.712	1.72	-1.48	-0.85	2.17	
8321.00	89.660	6441.71	1722.92	1837.75	-43.78	1650513.90	14297735.44	39°22'22.68"N	80°57'51.37"W	1838.27	358.635	2.21	0.39	2.17	0.77	
8416.00	89.340	6441.71	1817.90	1926.75	-77.01	1650480.68	14297824.40	39°22'23.56"N	80°57'51.79"W	1928.29	357.711	1.05	0.72	0.77	-1.85	
8510.00	88.920	6442.32	1911.88	2014.51	-110.67	1650447.04	14297912.13	39°22'24.43"N	80°57'52.22"W	2017.55	356.856	2.39	-1.51	-1.85	4.59	
8604.00	88.890	6444.12	2005.78	2102.97	-142.33	1650415.39	14298000.55	39°22'25.30"N	80°57'52.62"W	2107.79	356.128	4.58	-0.03	4.59	3.94	
8698.00	89.600	6445.36	2099.22	2193.45	-167.74	1650389.98	14298090.99	39°22'26.20"N	80°57'52.95"W	2199.85	355.627	4.01	0.76	3.94	-0.88	
8793.00	90.460	6445.31	2193.41	2285.52	-191.14	1650366.59	14298183.03	39°22'27.11"N	80°57'53.24"W	2293.50	355.219	1.27	0.91	-0.88	2.96	
8887.00	91.020	6444.09	2287.11	2375.07	-219.57	1650338.18	14298272.54	39°22'27.98"N	80°57'53.61"W	2385.19	354.718	6.26	-0.60	-2.96	1.33	
8982.00	90.250	6443.04	2381.89	2461.23	-259.35	1650298.42	14298358.67	39°22'28.85"N	80°57'54.11"W	2474.86	353.985	8.96	-0.81	-8.93	0.06	
9076.00	89.750	6443.04	2475.00	-305.81	1650251.98	14298440.35	39°22'29.65"N	80°57'54.70"W	2561.27	353.143	2.96	-0.53	-1.28	0.00	0.92	
9170.00	89.600	6443.57	2568.47	2626.15	-349.48	1650208.32	14298523.52	39°22'30.48"N	80°57'55.26"W	2649.30	352.420	5.37	-0.16	5.37	3.81	
9264.00	89.750	6444.10	2662.40	2712.16	-387.38	1650170.44	14298609.50	39°22'31.33"N	80°57'55.74"W	2739.69	351.871	2.96	0.16	2.96	0.77	
9358.00	89.510	6444.71	2756.32	2798.01	-425.62	1650132.21	14298695.32	39°22'32.17"N	80°57'56.23"W	2830.20	351.351	3.46	-0.26	-3.45	0.77	
9452.00	89.610	6445.52	2850.10	-466.32	1650091.52	14298780.01	39°22'33.01"N	80°57'56.75"W	2920.22	350.811	2.96	0.06	-0.06	0.77	3.81	
9546.00	89.630	6446.22	2943.94	2967.89	-506.14	1650051.72	14298865.12	39°22'33.85"N	80°57'57.25"W	3010.73	350.322	1.34	0.13	1.33	0.77	
9639.00	89.480	6446.94	3036.86	3052.79	-544.09	1650013.79	14298949.99	39°22'34.69"N	80°57'57.73"W	3100.90	349.894	0.79	-0.16	0.77	0.77	
9733.00	89.540	6447.75	3130.84	3139.97	-579.19	1649978.71	14299037.13	39°22'35.55"N	80°57'58.18"W	3192.94	349.549	3.81	0.06	3.81	0.77	
9828.00	89.720	6448.36	3225.77	3229.40	-611.22	1649946.69	14299126.53	39°22'36.44"N	80°57'58.59"W	3286.74	349.283	0.94	0.19	0.92	0.77	

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Actual Wellpath Report

Tinker Unit 1H AWP Proj: 15116
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Operator	Area	Field	Facility
ANTERO RESOURCES CORPORATION	Tyler County, WV	Tyler	Terry Snider Pad
	Well	Wellbore	
Slot #09	Tinker Unit 1H	Tinker Unit 1H AWB	

WELLPATH DATA (177 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(US m)	(US m)	(°)	(°)	(m)	(°)
9922.00	90.250	339.050	6448.39	3319.73	3317.67	-643.54	1649914.38	14299214.76	39°22'37.316"N	80°57'59.004"W	3379.51	349.023
10017.00	90.030	335.810	6448.15	3414.71	3405.38	-679.99	1649877.94	14299302.44	39°22'38.183"N	80°57'59.468"W	3472.61	348.708
10111.00	89.020	336.660	6448.93	3508.65	3491.41	-717.87	1649840.08	14299388.43	39°22'39.033"N	80°57'59.950"W	3564.44	348.381
10205.00	90.250	342.130	6449.53	3602.59	3579.36	-750.94	1649807.02	14299476.34	39°22'39.903"N	80°58'00.371"W	3657.28	348.151
10299.00	90.520	342.050	6448.90	3696.37	3668.80	-779.84	164978.13	14299566.75	39°22'40.787"N	80°58'00.738"W	3750.77	348.000
10393.00	91.230	340.170	6447.46	3790.24	3757.72	-810.27	1649747.71	14299654.64	39°22'41.666"N	80°58'01.125"W	3844.09	347.832
10488.00	90.620	336.170	6445.93	3885.20	3845.88	-845.59	1649712.41	14299742.76	39°22'42.537"N	80°58'01.575"W	3937.74	347.600
10572.00	90.250	334.440	6445.22	3979.02	3930.93	-885.60	1649672.42	14299827.77	39°22'43.378"N	80°58'02.084"W	4029.45	347.304
10677.00	89.910	334.500	6445.08	4073.76	4016.29	-927.29	1649630.75	14299913.10	39°22'44.222"N	80°58'02.614"W	4121.94	346.999
10771.00	90.030	340.740	6445.13	4167.71	4103.16	-963.06	1649594.99	14299999.94	39°22'45.081"N	80°58'03.070"W	4214.67	346.791
10865.00	90.120	340.580	6445.01	4261.62	4191.86	-994.19	1649563.87	14300088.60	39°22'45.957"N	80°58'03.466"W	4308.14	346.658
10959.00	89.820	337.880	6445.06	4355.60	4279.74	-1027.52	1649530.55	14300176.45	39°22'46.826"N	80°58'03.890"W	4401.36	346.499
11054.00	89.910	338.330	6445.28	4450.60	4367.89	-1062.95	1649495.14	14300264.56	39°22'47.697"N	80°58'04.340"W	4495.37	346.323
11148.00	89.880	339.210	6445.46	4544.59	4455.51	-1096.98	1649461.12	14300352.14	39°22'48.563"N	80°58'04.773"W	4588.57	346.168
11242.00	90.000	342.510	6445.55	4638.48	4544.85	-1127.80	1649430.31	14300440.90	39°22'49.441"N	80°58'05.165"W	4682.16	346.062
11336.00	90.090	346.430	6445.48	4731.91	4634.80	-1152.96	1649405.16	14300531.41	39°22'50.336"N	80°58'05.486"W	4776.10	346.031
11431.00	90.460	343.820	6445.02	4826.21	4726.66	-1177.35	1649380.78	14300623.18	39°22'51.244"N	80°58'05.796"W	4871.08	346.013
11525.00	90.310	339.980	6444.39	4920.00	4815.99	-1206.55	1649351.60	14300712.48	39°22'52.127"N	80°58'06.167"W	4964.83	345.935
11619.00	89.750	340.720	6444.34	5013.96	4904.23	-1238.93	1649319.23	14300800.69	39°22'52.999"N	80°58'06.579"W	5058.31	345.822
11713.00	89.970	340.240	6444.57	5107.92	4992.55	-1271.11	1649287.06	14300888.97	39°22'53.872"N	80°58'06.989"W	5151.83	345.716
11807.00	90.000	338.660	6444.60	5201.89	5080.57	-1304.10	1649254.08	14300976.95	39°22'54.742"N	80°58'07.408"W	5245.27	345.604
11902.00	90.030	335.060	6444.57	5296.85	5167.91	-1341.43	1649216.77	14301064.26	39°22'55.605"N	80°58'07.883"W	5339.17	345.449
11996.00	89.630	332.440	6444.85	5390.55	5252.21	-1383.00	1649175.21	14301148.52	39°22'56.439"N	80°58'08.412"W	5431.24	345.248
12090.00	89.910	332.870	6445.23	5484.11	5335.71	-1426.18	1649132.05	14301231.99	39°22'57.264"N	80°58'08.962"W	5523.02	345.035
12184.00	89.940	336.230	6445.35	5577.90	5420.57	-1466.57	1649091.68	14301316.82	39°22'58.103"N	80°58'09.476"W	5615.46	344.861
12278.00	89.940	337.840	6445.45	5671.88	5507.12	-1503.24	1649055.02	14301403.33	39°22'58.958"N	80°58'09.943"W	5708.60	344.732
12373.00	89.880	337.920	6445.60	5766.87	5595.13	-1539.01	1649019.26	14301491.30	39°22'59.828"N	80°58'10.398"W	5802.93	344.620
12467.00	90.370	339.330	6445.39	5860.87	5682.66	-1573.27	1648985.02	14301578.80	39°23'00.694"N	80°58'10.834"W	5896.42	344.525
12561.00	90.280	339.720	6444.86	5954.84	5770.72	-1606.15	1648952.15	14301666.82	39°23'01.564"N	80°58'11.252"W	5990.07	344.447
12655.00	90.370	339.040	6444.33	6048.82	5858.69	-1639.26	1648919.06	14301754.76	39°23'02.434"N	80°58'11.673"W	6083.70	344.368

Turn Rate	Comments
(°/100ft)	(°/100ft)
-0.72	
0.41	
1.50	
0.08	
-0.06	
0.00	
-1.71	
3.57	
0.03	
0.30	
-0.43	
-2.79	
-3.79	
0.03	
2.82	
345.248	
3.79	
345.449	
3.79	
5245.27	
345.604	
1.68	
0.03	
-1.68	
0.55	
0.23	
-0.60	
-0.28	
4.09	
-0.16	
-4.09	
-2.75	
0.39	
2.77	
346.013	
4.17	
0.10	
4.17	
346.031	
3.51	
0.13	
3.51	
4588.57	
346.168	
0.94	
-0.03	
0.94	
0.47	
0.09	
0.48	
346.323	
4495.37	
4401.36	
346.499	
-0.32	
-2.87	
0.10	
346.658	
0.20	
4308.14	
6.64	
0.13	
6.64	
346.791	
4214.67	
346.999	
4121.94	
-0.36	
1.12	
-2.90	
2.93	
347.304	
4029.45	
347.304	
4.26	
-0.64	
-4.21	
-2.00	
0.76	
2.14	
347.832	
3844.09	
3750.77	
348.000	
0.30	
-0.29	
-0.09	
5.82	
1.31	
348.151	
3657.28	
348.381	
3564.44	
1.40	
-1.07	
0.90	
-3.41	
-0.23	
347.61	
348.708	
347.61	
348.023	
1.87	
3379.51	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Tyler County, WV	Well	Tinker Unit 1H
Field	Tyler	Wellbore	Tinker Unit 1H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (177 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(m)	(°)	(°)	(m)	(m)	(m)	(m)	(US m)	(US m)	(°)	(°)	(m)	(°)
12749.00	6443.60	6142.79	5946.81	-1671.97	1648886.36	14301842.85	39°23'03.305"N	80°58'12.090"W	6177.38	344.296	1.28	0.16
12844.00	6442.86	6237.88	6036.61	-1702.96	1648855.39	14301932.61	39°23'04.192"N	80°58'12.484"W	6272.22	344.246	1.54	-0.16
12938.00	6442.30	6331.61	6124.99	-1734.94	1648823.42	14302020.95	39°23'05.056"N	80°58'12.891"W	6365.96	344.185	3.37	-0.06
13032.00	6441.79	6425.61	6212.41	-1769.49	1648788.88	14302108.34	39°23'05.930"N	80°58'13.330"W	6459.50	344.101	0.18	0.00
13126.00	6441.29	6519.61	6299.61	-1804.57	1648753.81	14302195.51	39°23'06.792"N	80°58'13.777"W	6552.98	344.015	0.56	0.00
13220.00	6440.63	6613.61	6386.79	-1839.72	1648718.67	14302282.65	39°23'07.654"N	80°58'14.224"W	6646.48	343.931	0.51	0.19
13314.00	6440.00	6707.60	6474.11	-1874.53	1648683.89	14302369.93	39°23'08.517"N	80°58'14.667"W	6740.02	343.852	0.22	-0.22
13408.00	6439.92	6801.60	6561.68	-1908.69	1648649.73	14302457.47	39°23'09.383"N	80°58'15.102"W	6833.65	343.781	0.99	-0.49
13503.00	6440.27	6896.59	6649.69	-1944.42	1648614.02	14302545.45	39°23'10.253"N	80°58'15.557"W	6928.15	343.701	2.50	-0.07
13597.00	6440.58	6990.56	6736.13	-1981.37	1648577.08	14302631.85	39°23'11.107"N	80°58'16.027"W	7021.49	343.609	0.32	0.14
13691.00	6440.20	7084.53	6822.55	-2018.34	1648540.13	14302718.23	39°23'11.961"N	80°58'16.497"W	7114.84	343.520	0.81	0.74
13785.00	6439.19	7178.40	6908.00	-2057.49	1648501.00	14302803.65	39°23'12.806"N	80°58'16.995"W	7207.89	343.414	2.78	0.07
13880.00	6438.32	7273.11	6993.18	-2099.53	1648458.98	14302888.80	39°23'13.648"N	80°58'17.531"W	7301.55	343.289	0.77	-0.26
13974.00	6437.64	7366.92	7078.17	-2139.66	1648418.86	14302973.75	39°23'14.488"N	80°58'18.041"W	7394.50	343.180	2.83	0.03
14068.00	6436.60	7460.84	7164.04	-2177.89	1648380.64	14303059.59	39°23'15.337"N	80°58'18.528"W	7487.77	343.091	0.44	-0.11
14162.00	6435.45	7554.73	7249.62	-2216.75	1648341.80	14303145.14	39°23'16.183"N	80°58'19.023"W	7580.97	342.998	0.83	-0.27
14256.00	6434.36	7648.69	7336.57	-2252.39	1648306.17	14303232.04	39°23'17.042"N	80°58'19.476"W	7674.53	342.933	5.32	0.17
14350.00	6433.00	7742.66	7424.62	-2285.26	1648273.32	14303320.06	39°23'17.913"N	80°58'19.894"W	7768.36	342.892	1.46	0.19
14445.00	6431.76	7837.65	7512.94	-2320.24	1648238.35	14303408.34	39°23'18.786"N	80°58'20.340"W	7863.06	342.838	1.02	-0.36
14539.00	6430.72	7931.64	7599.88	-2355.97	1648202.64	14303495.25	39°23'19.645"N	80°58'20.794"W	7956.68	342.777	0.61	-0.60
14633.00	6429.69	8025.61	7687.58	-2389.73	1648168.89	14303582.92	39°23'20.512"N	80°58'21.224"W	8050.45	342.732	3.33	-0.11
14727.00	6428.63	8119.21	7777.55	-2416.84	1648141.79	14303672.85	39°23'21.401"N	80°58'21.569"W	8144.41	342.738	5.79	0.14
14821.00	6427.44	8212.46	7868.52	-2440.45	1648118.19	14303763.79	39°23'22.301"N	80°58'21.869"W	8238.29	342.769	1.06	0.03
14915.00	6425.73	8306.16	7958.12	-2468.74	1648089.92	14303853.35	39°23'23.186"N	80°58'22.229"W	8332.25	342.765	5.29	0.65
15010.00	6423.90	8401.12	8047.06	-2502.08	1648056.59	14303942.25	39°23'24.065"N	80°58'22.653"W	8427.07	342.728	1.29	-0.52
15091.00	6421.85	8482.07	8122.91	-2530.41	1648028.26	14304018.07	39°23'24.815"N	80°58'23.014"W	8507.92	342.697	2.11	1.44
15116.00	6420.97	8507.04	8146.41	-2538.90	1648019.78	14304041.56	39°23'25.047"N	80°58'23.122"W	8532.87	342.690	0.00	0.00
Projected MD at TD: 15116'												

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Tyler County, WV	Well	Tinker Unit 1H
Field	Tyler	Wellbore	Tinker Unit 1H AWB
Facility	Terry Snider Pad		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Tinker Unit 1H POE - Rev-3	6411.00	283.19	592.69	1651150.11	14296181.50	39°22'07.320"N	80°57'43.278"W	point
Tinker Unit 1H BHL - Rev-3	6448.00	8162.31	-2554.15	1648004.54	14304057.46	39°23'25.205"N	80°58'23.316"W	point
Tinker Unit 1H LP - Rev-3	6448.00	454.33	524.34	1651081.79	14296352.58	39°22'09.011"N	80°57'44.147"W	point

WELLPATH COMPOSITION - Ref Wellbore: Tinker Unit 1H AWB Ref Wellpath: Tinker Unit 1H AWP Proj: 15116'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
25.00	5622.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <8-3/4">(100-5622')	Tinker Unit 1H AWB	
5622.00	15091.00	BHI AutoTrak Curve (Short)	02 AT Curve <8-1/2">(5622')(5759'-15091')	Tinker Unit 1H AWB	
15091.00	15116.00	Blind Drilling (std)	Projection to bit	Tinker Unit 1H AWB	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #09
Area	Tyler County, WV	Well	Tinker Unit 1H
Field	Tyler	Wellbore	Tinker Unit 1H AWB
Facility	Terry Snider Pad		

COMMENTS

Wellpath general comments

API: 47-095-02375-0000
BHI Job #: 8261509
Rig: Patterson 342
Duration: 11.20.2016 - 11.23.2016
Gyrodata MS Gyro <8-3/4"> (100'-5622')
BHI AT Curve <8-1/2"> (5622')(5759'-15091')
Middlesex: 639' MD
Burkett: 6546' MD
Tully: 6597' MD
Marcellus POE: 6619' MD
Projected MD at TD: 15116'

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