

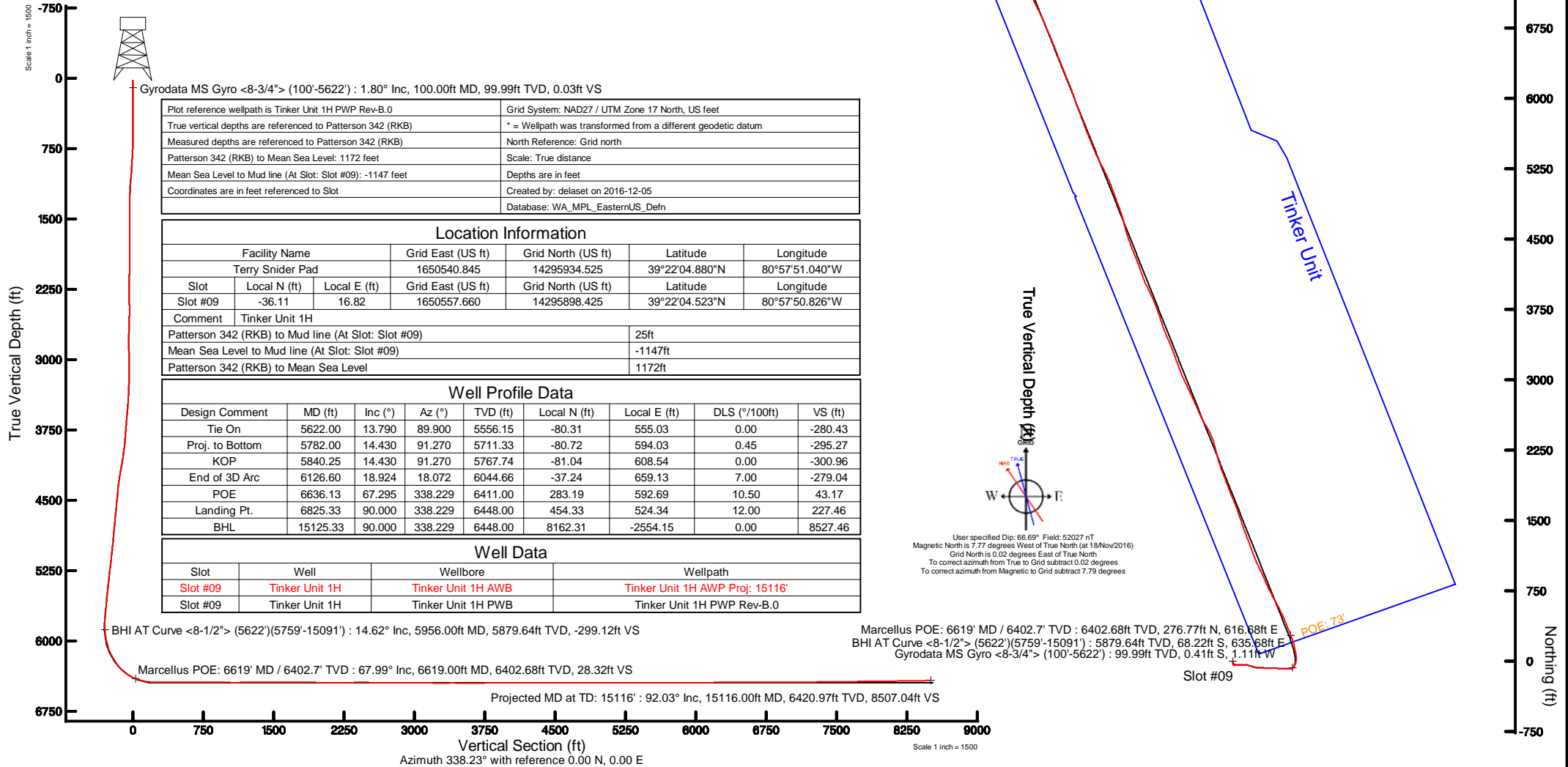
# ANTERO RESOURCES CORPORATION

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



Plot reference wellpath is Tinker Unit 1H PWP Rev-B.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 #09): -1147 feet		Depths are in feet	
Coordinates are in feet referenced to Slot		Created by: delaset on 2016-12-05	
		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)	Latitude	Longitude
Slot #09	-36.11	16.82	1650557.660	14295898.425	39°22'04.523"N	80°57'50.826"W
Comment		Tinker Unit 1H				
Patterson 342 (RKB) to Mud line (At Slot: Slot #09)		25ft				
Mean Sea Level to Mud line (At Slot: Slot #09)		-1147ft				
Patterson 342 (RKB) to Mean Sea Level		1172ft				

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5622.00	13.790	89.900	5556.15	-80.31	555.03	0.00	-280.43
Proj. 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	18.072	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.	6825.33	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	Wellpath
Slot #09	Tinker Unit 1H	Tinker Unit 1H AWB	Tinker Unit 1H AWP Proj: 15116'
Slot #09	Tinker Unit 1H	Tinker Unit 1H PWB	Tinker Unit 1H PWP Rev-B.0

User specified Dip: 66.69° Field: 52027 nT  
 Magnetic North is 7.77 degrees West of True North (at 18/Nov/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 7.79 degrees



# 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°



# 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		

## 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†	0.000	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	



# Actual Wellpath Report

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

WELLPATH DATA (177 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
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	
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	0.03	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	-0.45	46.94	
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	2.23	21.84	
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	2.19	-0.04	
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	2.19	4.80	
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	1.71	2.85	
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	2.09	-2.85	
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	1.75	-4.58	
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	-0.05	-3.62	
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	-0.48	4.95	
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	0.55	15.15	
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	0.78	2.94	
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	1.06	-0.42	
4300.00	15.540	104.570	4274.32	-146.37	-64.67	232.72	1650790.29	14295833.78	39°22'03.883"N	80°57'47.863"W	241.54	105.530	0.99	0.34	-3.52	
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	-2.74	-13.82	
4500.00	12.860	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	0.06	3.90	
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	1.06	-2.37	
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	0.02	-0.76	
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	-0.36	-1.11	
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	0.42	-0.13	
5000.00	14.270	90.380	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	0.27	0.10	
5100.00	15.060	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	0.79	1.70	
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	-0.69	0.88	
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	-0.18	3.82	
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	1.72	-4.94	
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	-1.46	2.83	
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	-0.64	-4.28	
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	-0.09	-2.23	
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	0.85	-1.34	



# Actual Wellpath Report

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

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
5775.00	14.730	87.680	5704.33	-293.84	-79.53	593.11	1651150.53	14295818.92	39°22'03.735"N	80°57'43.275"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°22'03.739"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°22'03.755"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	
5956.00†	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	BHI 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	95.995	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	648.86	95.129	4.21	1.27	-15.49	
6059.00	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	655.86	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	-15.68	
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	355.160	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	351.640	6231.33	-183.25	70.86	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	349.120	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†	40.657	348.736	6277.27	-148.63	105.70	665.42	1651222.81	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
6435.00	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	78.886	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†	59.717	342.787	6370.52	-37.10	215.25	639.00	1651196.40	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
6577.00	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	Tully: 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	6440.08	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	



# 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		

## WELLPATH DATA (177 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
7096.00	89.350	331.950	6440.43	499.10	703.69	416.33	1650973.82	14296601.84	39°22'11.476"N	80°57'45.521"W	817.63	30.610	1.81	-0.66	1.68	
7190.00	88.650	334.930	6442.07	592.74	787.75	374.31	1650931.82	14296685.86	39°22'12.307"N	80°57'46.056"W	872.16	25.415	3.26	-0.74	3.17	
7285.00	90.520	336.760	6442.76	687.65	874.42	335.44	1650892.96	14296772.50	39°22'13.164"N	80°57'46.550"W	936.55	20.987	2.75	1.97	1.93	
7379.00	90.340	333.630	6442.05	781.50	959.74	296.01	1650853.55	14296857.78	39°22'14.007"N	80°57'47.052"W	1004.35	17.141	3.34	-0.19	-3.33	
7473.00	89.630	336.430	6442.08	875.35	1044.94	256.33	1650813.89	14296942.95	39°22'14.850"N	80°57'47.557"W	1075.92	13.783	3.07	-0.76	2.98	
7567.00	89.630	338.750	6442.69	969.33	1131.83	220.50	1650778.07	14297029.81	39°22'15.709"N	80°57'48.013"W	1153.11	11.024	2.47	0.00	2.47	
7661.00	89.600	340.420	6443.32	1063.30	1219.93	187.71	1650745.30	14297117.86	39°22'16.579"N	80°57'48.430"W	1234.28	8.748	1.78	-0.03	1.78	
7755.00	91.020	339.190	6442.81	1157.26	1308.14	155.26	1650712.86	14297206.04	39°22'17.452"N	80°57'48.842"W	1317.32	6.769	2.00	1.51	-1.31	
7849.00	90.180	338.900	6441.82	1251.24	1395.92	121.65	1650679.26	14297293.78	39°22'18.319"N	80°57'49.270"W	1401.21	4.981	0.95	-0.89	-0.31	
7944.00	89.230	341.380	6442.31	1346.18	1485.26	89.38	1650647.00	14297383.09	39°22'19.202"N	80°57'49.680"W	1487.95	3.444	2.80	-1.00	2.61	
8038.00	90.920	341.920	6442.19	1440.01	1574.48	59.79	1650617.42	14297472.27	39°22'20.084"N	80°57'50.057"W	1575.61	2.175	1.89	1.80	0.57	
8132.00	90.710	337.930	6440.85	1533.94	1662.74	27.53	1650585.18	14297560.50	39°22'20.957"N	80°57'50.467"W	1662.97	0.949	4.25	-0.22	-4.24	
8227.00	89.290	337.120	6440.85	1628.93	1750.52	-8.79	1650548.88	14297648.24	39°22'21.824"N	80°57'50.929"W	1750.54	359.712	1.72	-1.49	-0.85	
8321.00	89.660	339.160	6441.71	1722.92	1837.75	-43.78	1650513.90	14297735.44	39°22'22.687"N	80°57'51.374"W	1838.27	358.635	2.21	0.39	2.17	
8416.00	90.340	339.890	6441.71	1817.90	1926.75	-77.01	1650480.68	14297824.40	39°22'23.566"N	80°57'51.797"W	1928.29	357.711	1.05	0.72	0.77	
8510.00	88.920	338.150	6442.32	1911.88	2014.51	-110.67	1650447.04	14297912.13	39°22'24.434"N	80°57'52.225"W	2017.55	356.856	2.39	-1.51	-1.85	
8604.00	88.890	342.460	6444.12	2005.78	2102.97	-142.33	1650415.39	14298000.55	39°22'25.308"N	80°57'52.628"W	2107.79	356.128	4.58	-0.03	4.59	
8698.00	89.600	346.160	6445.36	2099.22	2193.45	-167.74	1650389.98	14298090.99	39°22'26.203"N	80°57'52.951"W	2199.85	355.627	4.01	0.76	3.94	
8793.00	90.460	345.320	6445.31	2193.41	2285.52	-191.14	1650366.59	14298183.03	39°22'27.113"N	80°57'53.248"W	2293.50	355.219	1.27	0.91	-0.88	
8887.00	91.020	339.460	6444.09	2287.11	2375.07	-219.57	1650338.18	14298272.54	39°22'27.998"N	80°57'53.610"W	2385.19	354.718	6.26	0.60	-6.23	
8982.00	90.250	330.980	6443.04	2381.89	2461.23	-259.35	1650298.42	14298358.67	39°22'28.850"N	80°57'54.116"W	2474.86	353.985	8.96	-0.81	-8.93	
9076.00	89.750	329.780	6443.04	2475.00	2542.95	-305.81	1650251.98	14298440.35	39°22'29.658"N	80°57'54.707"W	2561.27	353.143	1.38	-0.53	-1.28	
9170.00	89.600	334.830	6443.57	2568.47	2626.15	-349.48	1650208.32	14298523.52	39°22'30.480"N	80°57'55.263"W	2649.30	352.420	5.37	-0.16	5.37	
9264.00	89.750	337.610	6444.10	2662.40	2712.16	-387.38	1650170.44	14298609.50	39°22'31.330"N	80°57'55.745"W	2739.69	351.871	2.96	0.16	2.96	
9358.00	89.510	334.370	6444.71	2756.32	2798.01	-425.62	1650132.21	14298695.32	39°22'32.179"N	80°57'56.232"W	2830.20	351.351	3.46	-0.26	-3.45	
9452.00	89.510	334.310	6445.52	2850.10	2882.74	-466.32	1650091.52	14298780.01	39°22'33.017"N	80°57'56.750"W	2920.22	350.811	0.06	0.00	-0.06	
9546.00	89.630	335.560	6446.22	2943.94	2967.89	-506.14	1650051.72	14298865.12	39°22'33.858"N	80°57'57.256"W	3010.73	350.322	1.34	0.13	1.33	
9639.00	89.480	336.280	6446.94	3036.86	3052.79	-544.09	1650013.79	14298949.99	39°22'34.698"N	80°57'57.739"W	3100.90	349.894	0.79	-0.16	0.77	
9733.00	89.540	339.860	6447.75	3130.84	3139.97	-579.19	1649978.71	14299037.13	39°22'35.559"N	80°57'58.186"W	3192.94	349.549	3.81	0.06	3.81	
9828.00	89.720	340.730	6448.36	3225.77	3229.40	-611.22	1649946.69	14299126.53	39°22'36.443"N	80°57'58.593"W	3286.74	349.283	0.94	0.19	0.92	



# 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		

## WELLPATH DATA (177 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
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	1.87	0.56	-1.79	
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	3.42	-0.23	-3.41	
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	1.40	-1.07	0.90	
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	5.96	1.31	5.82	
10299.00	90.520	342.050	6448.90	3696.37	3668.80	-779.84	1649778.13	14299565.75	39°22'40.787"N	80°58'00.738"W	3750.77	348.000	0.30	0.29	-0.09	
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	2.14	0.76	-2.00	
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	4.26	-0.64	-4.21	
10582.00	90.250	333.440	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	2.93	-0.39	-2.90	
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	1.17	-0.36	1.12	
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	6.64	0.13	6.64	
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	0.20	0.10	-0.17	
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	2.89	-0.32	-2.87	
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	0.48	0.09	0.47	
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	0.94	-0.03	0.94	
11242.00	90.000	342.510	6445.55	4638.48	4544.30	-1127.80	1649430.31	14300440.90	39°22'49.441"N	80°58'05.165"W	4682.16	346.062	3.51	0.13	3.51	
11336.00	90.090	346.430	6445.48	4731.91	4634.85	-1152.96	1649405.16	14300531.41	39°22'50.336"N	80°58'05.486"W	4776.10	346.031	4.17	0.10	4.17	
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	2.77	0.39	-2.75	
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	4.09	-0.16	-4.09	
11619.00	89.750	339.720	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	0.66	-0.60	-0.28	
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	0.60	0.23	0.55	
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	1.68	0.03	-1.68	
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	3.79	0.03	-3.79	
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	2.82	-0.43	-2.79	
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	0.55	0.30	0.46	
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	3.57	0.03	3.57	
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	1.71	0.00	1.71	
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	0.11	-0.06	0.08	
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	1.59	0.52	1.50	
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	0.43	-0.10	0.41	
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	0.73	0.10	-0.72	



# 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		

## WELLPATH DATA (177 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
12749.00	90.520	340.230	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	1.27	
12844.00	90.370	341.690	6442.86	6237.68	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	1.54	
12938.00	90.310	338.520	6442.30	6331.61	6124.99	-1734.94	1648823.42	14302020.95	39°23'05.066"N	80°58'12.891"W	6365.96	344.185	3.37	-0.06	-3.37	
13032.00	90.310	338.350	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	-0.18	
13126.00	90.310	337.820	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	-0.56	
13220.00	90.490	338.260	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	0.47	
13314.00	90.280	338.280	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	0.02	
13408.00	89.820	339.090	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	0.86	
13503.00	89.750	336.720	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	-2.49	
13597.00	89.880	336.990	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	0.29	
13691.00	90.580	336.690	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	-0.32	
13785.00	90.650	334.080	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	-2.78	
13880.00	90.400	333.390	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	-0.73	
13974.00	90.430	336.050	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	2.83	
14068.00	90.830	335.950	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	0.43	-0.11	
14162.00	90.580	335.210	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	-0.79	
14256.00	90.740	340.210	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	5.32	
14350.00	90.920	338.850	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	-1.45	
14445.00	90.580	337.940	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	-0.96	
14539.00	90.680	337.380	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	0.11	-0.60	
14633.00	90.580	340.510	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	3.33	
14727.00	90.710	345.950	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	5.79	
14821.00	90.740	344.950	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	-1.06	
14915.00	91.350	340.010	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	-5.26	
15010.00	90.860	338.890	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	-1.18	
15091.00	92.030	340.140	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	1.54	
15116.00	92.030	340.140	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	0.00	Projected MD at TD: 15116'





# 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		

## 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	Gyrodatta standard - Drop gyro or Multi-shot	01_Gyrodatta 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



# Actual Wellpath Report

Tinker Unit 1H AWP Proj: 15116'

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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'