

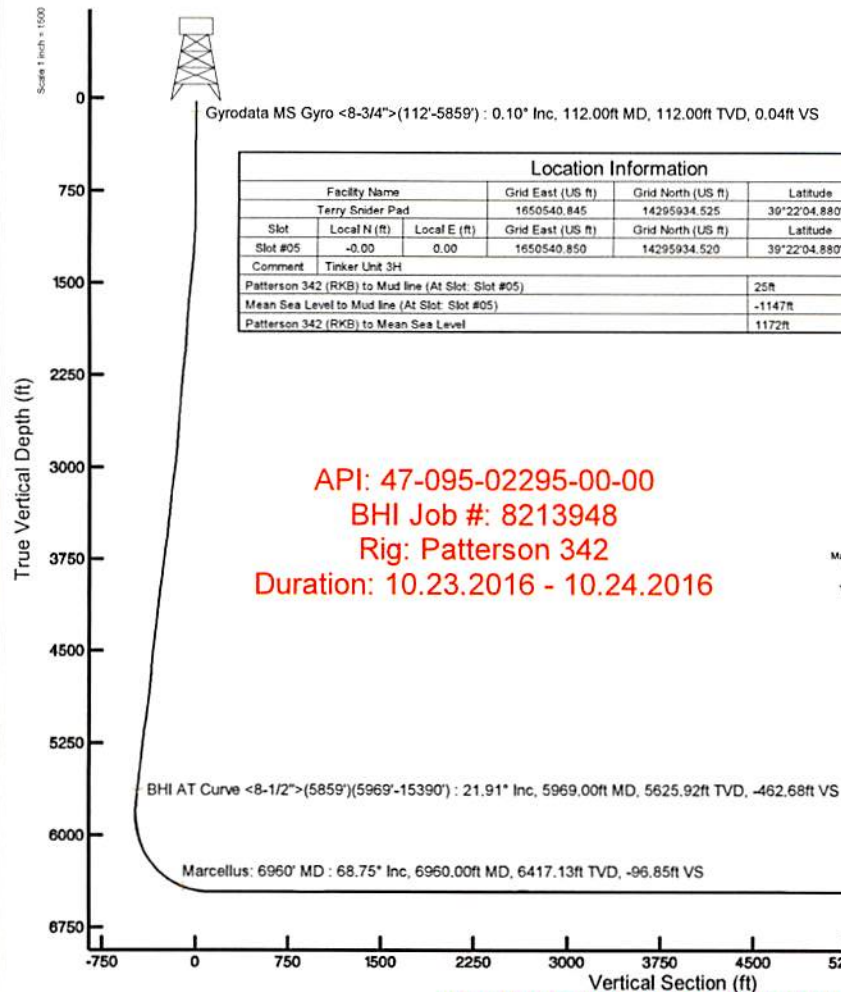
ANTERO RESOURCES CORPORATION

Location: Tyler County, WV Slot: Slot #05
 Field: Tyler Well: Tinker Unit 3H
 Facility: Terry Snider Pad Wellbore: Tinker Unit 3H PWB

Plot reference wellpath is Tinker Unit 3H PWB Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 342 (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Patterson 342 (RKB) to Mean Sea Level: 1172 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #05): -1147 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harekuk on 2016-10-26
	Database: WA_MPL_EASTERNUS_Def

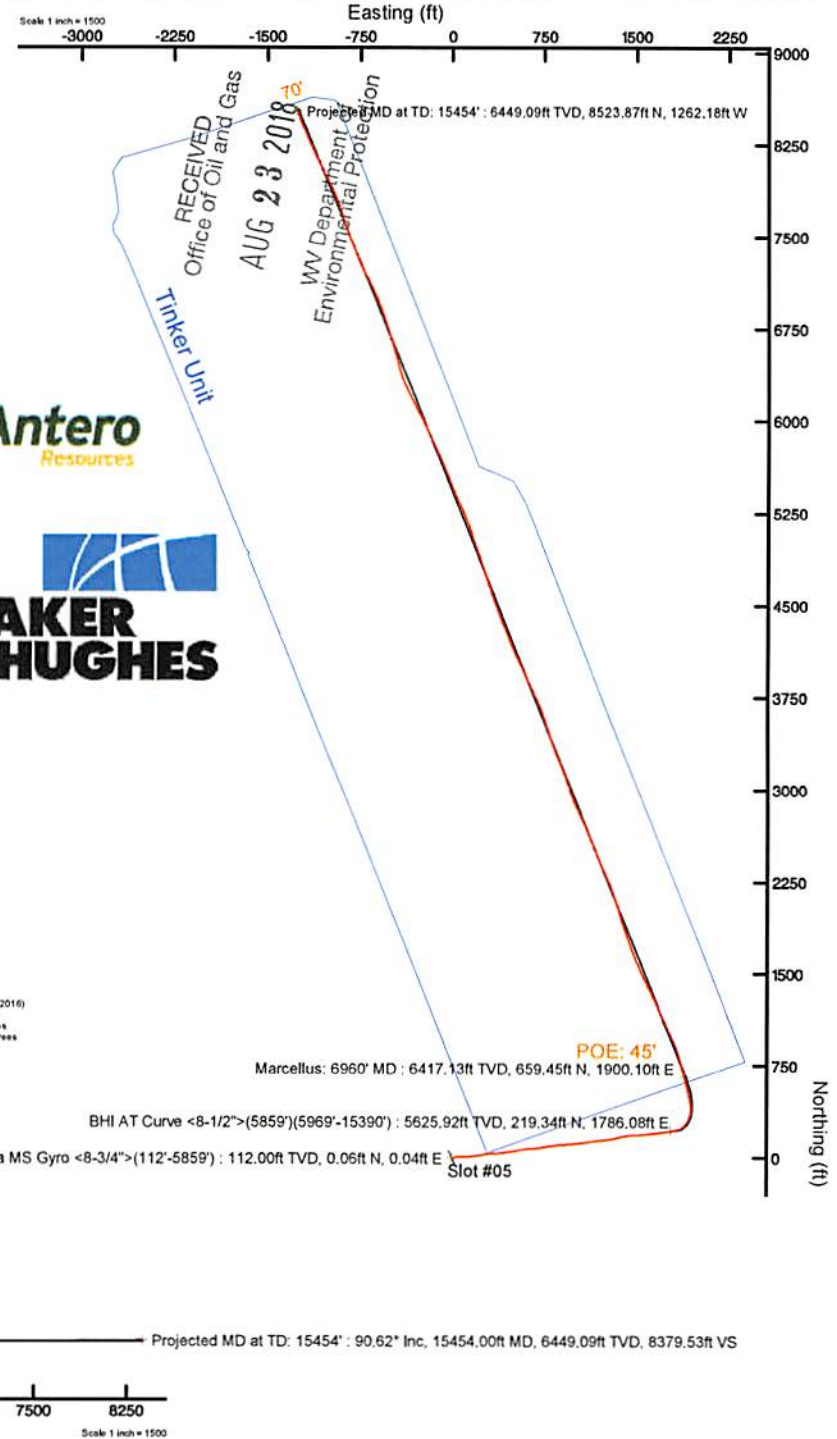
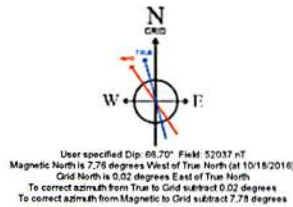
Well Data

Slot	Well	Wellbore	Wellpath
Slot #05	Tinker Unit 3H	Tinker Unit 3H AWB	Tinker Unit 3H AWP Proj: 15454'
Slot #05	Tinker Unit 3H	Tinker Unit 3H PWB	Tinker Unit 3H PWB Rev-A.0



Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Terry Snider Pad	1650540.845	14295934.525	39°22'04.880"N	80°57'51.040"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #05	-0.00	0.00	1650540.850	14295934.520
Latitude	39°22'04.880"N			
Longitude	80°57'51.040"W			
Comment	Tinker Unit 3H			
Patterson 342 (RKB) to Mud line (At Slot: Slot #05)	25ft			
Mean Sea Level to Mud line (At Slot: Slot #05)	-1147ft			
Patterson 342 (RKB) to Mean Sea Level	1172ft			

API: 47-095-02295-00-00
 BHI Job #: 8213948
 Rig: Patterson 342
 Duration: 10.23.2016 - 10.24.2016



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Actual Wellpath Report

Tinker Unit 3H AWP Proj: 15454'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Tinker Unit 3H
Field	Tyler	Wellbore	Tinker Unit 3H AWB
Facility	Terry Snider Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Hareluk
Scale	0.999600	Report Generated	10/26/2016 at 12:45:35 PM
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Tinker_Unit_3H_AWP_Proj_15454_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.00	0.00	1650540.85	14295934.52	39°22'04.880"N	80°57'51.040"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 #05)	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	338.10°



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Tinker Unit 3H AWP Proj: 15454'
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REFERENCE WELLPATH IDENTIFICATION									
Operator	ANTERO RESOURCES CORPORATION								
Area	Tyler County, WV								
Field	Tyler								
Facility	Terry Snider Pad								
	Slot	Slot #05							
	Well	Tinker Unit 3H							
	Wellbore	Tinker Unit 3H AWP							

WELLPATH DATA (179 stations) † = Interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
0.00†	0.000	36.020	0.00	0.00	0.00	0.00	1650540.85	14295934.52	39°22'04.880"N	80°57'51.040"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	36.020	25.00	0.00	0.00	0.00	1650540.85	14295934.52	39°22'04.880"N	80°57'51.040"W	0.00	0.000	0.00	0.00	0.00	
112.00	0.100	36.020	112.00	0.04	0.06	0.04	1650540.89	14295934.58	39°22'04.881"N	80°57'51.039"W	0.08	36.020	0.11	0.11	41.40	Gyrodata MS Gyro <8-3/4">-(112-.5859)
212.00	0.340	122.540	212.00	-0.15	-0.03	0.35	1650541.20	14295934.49	39°22'04.880"N	80°57'51.036"W	0.35	94.560	0.35	0.24	86.52	
312.00	0.450	120.180	312.00	-0.71	-0.38	0.94	1650541.79	14295934.14	39°22'04.876"N	80°57'51.028"W	1.01	112.345	0.11	0.11	-2.36	
412.00	0.550	126.160	411.99	-1.42	-0.87	1.66	1650542.51	14295933.66	39°22'04.871"N	80°57'51.019"W	1.87	117.492	0.11	0.10	5.98	
512.00	0.590	126.620	511.99	-2.27	-1.46	2.46	1650543.31	14295933.07	39°22'04.866"N	80°57'51.009"W	2.86	120.577	0.04	0.04	0.46	
612.00	1.130	84.970	611.98	-2.99	-1.68	3.66	1650544.71	14295932.84	39°22'04.863"N	80°57'50.991"W	4.21	113.479	0.79	0.54	-41.65	
712.00	2.510	76.080	711.92	-3.58	-1.06	6.97	1650547.81	14295933.46	39°22'04.869"N	80°57'50.951"W	7.05	98.675	1.40	1.38	-8.89	
812.00	3.330	63.080	811.80	-3.63	0.78	11.68	1650552.53	14295935.30	39°22'04.888"N	80°57'50.891"W	11.71	86.186	1.05	0.82	-13.00	
912.00	4.460	65.900	911.56	-3.23	3.68	17.82	1650558.66	14295938.20	39°22'04.916"N	80°57'50.813"W	18.20	78.328	1.15	1.13	2.82	
1012.00	5.850	74.350	1011.16	-3.64	6.64	26.28	1650567.12	14295941.16	39°22'04.946"N	80°57'50.705"W	27.10	75.811	1.58	1.35	8.45	
1112.00	9.380	82.960	1110.26	-6.28	9.02	39.28	1650580.11	14295943.53	39°22'04.969"N	80°57'50.540"W	40.30	77.069	3.70	3.53	8.61	
1212.00	11.370	85.570	1208.62	-11.33	10.78	57.19	1650598.02	14295945.29	39°22'04.986"N	80°57'50.312"W	58.20	79.327	2.04	1.98	2.61	
1312.00	13.580	89.550	1306.26	-18.59	11.63	78.77	1650619.58	14295946.15	39°22'04.995"N	80°57'50.037"W	79.62	81.599	2.37	2.21	3.98	
1412.00	15.920	90.520	1402.96	-28.11	11.60	104.22	1650645.03	14295946.12	39°22'04.984"N	80°57'48.713"W	104.87	83.649	2.35	2.34	0.97	
1512.00	18.090	86.900	1498.58	-38.35	12.32	133.44	1650674.24	14295946.83	39°22'05.001"N	80°57'48.341"W	134.01	84.727	2.41	2.17	-3.62	
1612.00	19.050	84.570	1593.37	-47.98	14.70	165.19	1650705.98	14295948.21	39°22'05.025"N	80°57'48.936"W	165.85	84.915	1.21	0.96	-2.33	
1712.00	20.120	83.530	1687.59	-57.18	18.18	198.53	1650739.30	14295952.69	39°22'05.059"N	80°57'48.512"W	199.36	84.767	1.13	1.07	-1.04	
1812.00	18.720	80.820	1781.90	-65.29	22.66	231.47	1650772.22	14295957.19	39°22'05.103"N	80°57'48.093"W	232.57	84.404	1.66	-1.40	-2.71	
1912.00	17.530	78.960	1876.94	-71.66	28.12	262.09	1650802.83	14295962.63	39°22'05.157"N	80°57'47.703"W	263.59	83.875	1.32	-1.19	-1.86	
2012.00	17.220	80.720	1972.37	-77.73	33.40	291.48	1650832.21	14295967.90	39°22'05.209"N	80°57'47.328"W	293.39	83.464	0.61	-0.31	1.76	
2112.00	16.600	87.380	2068.06	-85.68	36.44	320.56	1650861.08	14295970.94	39°22'05.239"N	80°57'46.961"W	322.43	83.511	2.03	-0.62	6.66	
2212.00	17.210	88.030	2163.74	-95.14	39.60	349.42	1650890.14	14295973.60	39°22'05.250"N	80°57'46.591"W	351.43	83.959	0.64	0.61	0.65	
2312.00	17.430	86.220	2259.20	-105.44	39.09	379.15	1650918.83	14295973.60	39°22'05.262"N	80°57'46.212"W	381.16	84.113	0.58	0.22	-1.81	
2412.00	16.110	84.600	2354.95	-113.74	41.39	407.90	1650948.59	14295975.89	39°22'05.287"N	80°57'45.846"W	410.00	84.207	1.40	-1.32	-1.62	
2512.00	16.890	82.970	2450.83	-121.41	44.47	436.13	1650978.97	14295978.97	39°22'05.318"N	80°57'45.487"W	438.40	84.178	0.91	1.63	-1.63	
2612.00	17.910	82.330	2546.25	-128.92	48.30	465.79	1651006.45	14295982.80	39°22'05.355"N	80°57'45.109"W	468.29	84.080	1.04	1.02	-0.64	
2712.00	18.600	79.980	2641.18	-136.01	53.15	496.65	1651037.50	14295987.65	39°22'05.403"N	80°57'44.713"W	499.68	83.894	1.11	0.83	-2.35	
2812.00	19.950	79.100	2735.53	-142.57	59.17	529.42	1651070.06	14295993.67	39°22'05.463"N	80°57'44.299"W	532.72	83.623	1.24	1.21	-0.88	



Actual Wellpath Report

Tinker Unit 3H AWP Proj: 15454'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Tinker Unit 3H
Field	Tyler	Wellbore	Tinker Unit 3H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (179 stations)																	
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [ft/100ft]	Comments	
2912.00	22.200	79.450	2828.84	-149.54	65.85	564.75	1651105.37	14296000.35	39°22'05.529"N	80°57'43.849"W	568.58	83.349	2.25	2.25	0.35		
3012.00	23.520	80.100	2920.98	-157.41	72.74	602.98	1651143.59	14296007.24	39°22'05.596"N	80°57'43.362"W	607.35	83.121	1.34	1.32	0.65		
3112.00	23.320	86.460	3012.76	-167.79	77.40	642.40	1651182.99	14296011.89	39°22'05.642"N	80°57'42.860"W	647.05	83.130	2.53	-0.20	6.36		
3212.00	22.920	88.220	3104.73	-180.73	79.23	681.62	1651222.20	14296013.71	39°22'05.660"N	80°57'42.361"W	686.21	83.370	0.80	-0.40	1.76		
3312.00	23.660	81.040	3196.60	-191.92	82.96	720.91	1651261.47	14296017.44	39°22'05.697"N	80°57'41.860"W	725.67	83.436	2.93	0.74	-7.18		
3412.00	23.330	79.080	3288.31	-200.19	89.83	760.18	1651300.72	14296024.32	39°22'05.765"N	80°57'41.360"W	765.47	83.260	0.85	-0.33	-1.96		
3512.00	22.040	83.110	3380.58	-208.82	95.83	798.25	1651338.78	14296030.32	39°22'05.824"N	80°57'40.876"W	803.98	83.154	2.02	-1.29	4.03		
3612.00	21.250	82.060	3473.53	-218.05	100.59	834.83	1651375.34	14296035.07	39°22'05.871"N	80°57'40.410"W	840.86	83.129	0.88	-0.79	-1.05		
3712.00	23.050	84.860	3566.14	-228.07	104.85	872.28	1651412.78	14296039.32	39°22'05.913"N	80°57'39.933"W	878.55	83.146	2.09	1.80	2.80		
3812.00	25.030	86.950	3657.47	-240.55	107.73	912.90	1651453.39	14296042.20	39°22'05.941"N	80°57'39.416"W	919.24	83.270	2.16	1.98	2.09		
3912.00	23.770	85.140	3748.54	-253.29	110.56	954.11	1651494.58	14296045.04	39°22'05.969"N	80°57'38.891"W	960.50	83.390	1.47	-1.26	-1.81		
4012.00	22.570	83.110	3840.47	-264.17	114.57	993.25	1651533.70	14296049.04	39°22'06.008"N	80°57'38.393"W	999.83	83.420	1.44	-1.20	-2.03		
4112.00	24.340	85.150	3932.20	-275.18	118.61	1032.84	1651573.27	14296053.09	39°22'06.048"N	80°57'37.888"W	1039.62	83.449	1.95	1.77	2.04		
4212.00	25.360	82.950	4022.95	-286.71	122.99	1074.62	1651615.04	14296057.46	39°22'06.091"N	80°57'37.356"W	1081.64	83.471	1.38	1.02	-2.20		
4312.00	26.070	79.690	4113.05	-296.62	129.55	1117.50	1651657.90	14296064.01	39°22'06.156"N	80°57'36.810"W	1124.98	83.387	1.58	0.71	-3.26		
4412.00	24.510	80.980	4203.46	-305.65	136.73	1159.61	1651699.99	14296071.20	39°22'06.227"N	80°57'36.274"W	1167.64	83.275	1.65	-1.56	1.29		
4512.00	22.890	84.380	4295.03	-315.73	141.89	1199.45	1651739.82	14296076.35	39°22'06.277"N	80°57'35.767"W	1207.82	83.254	2.12	-1.62	3.40		
4612.00	23.310	84.110	4387.01	-326.64	145.82	1238.49	1651778.84	14296080.29	39°22'06.316"N	80°57'35.270"W	1247.04	83.285	0.43	0.42	-0.27		
4712.00	24.160	84.350	4478.55	-337.82	149.87	1278.53	1651818.87	14296084.33	39°22'06.356"N	80°57'34.760"W	1287.29	83.314	0.86	0.85	0.24		
4812.00	24.150	77.710	4569.81	-346.97	156.24	1318.89	1651859.21	14296090.70	39°22'06.419"N	80°57'34.246"W	1328.12	83.244	2.72	-0.01	-6.64		
4912.00	24.590	74.410	4660.91	-352.67	166.19	1358.92	1651899.23	14296100.64	39°22'06.517"N	80°57'33.736"W	1369.05	83.028	1.43	0.44	-3.30		
5012.00	25.290	80.940	4751.60	-359.70	175.14	1400.07	1651940.35	14296109.59	39°22'06.605"N	80°57'33.212"W	1410.98	82.870	2.84	0.70	6.53		
5112.00	24.290	78.790	4842.38	-368.27	182.51	1441.34	1651981.61	14296116.95	39°22'06.678"N	80°57'32.687"W	1452.85	82.783	1.35	-1.00	-2.15		
5212.00	24.760	88.310	4933.40	-379.32	187.12	1482.46	1652022.72	14296121.57	39°22'06.723"N	80°57'32.163"W	1494.23	82.806	3.98	0.47	9.52		
5312.00	22.790	87.150	5024.91	-392.88	188.70	1522.74	1652062.98	14296123.15	39°22'06.739"N	80°57'31.650"W	1534.39	82.936	2.02	-1.97	-1.16		
5412.00	25.260	86.990	5116.24	-406.11	190.79	1563.40	1652103.62	14296125.23	39°22'06.759"N	80°57'31.133"W	1575.00	83.042	2.47	2.47	-0.16		
5512.00	23.700	80.480	5207.26	-417.33	195.23	1604.54	1652144.74	14296129.67	39°22'06.803"N	80°57'30.609"W	1616.37	83.063	3.11	-1.56	-6.51		
5612.00	23.250	83.310	5298.99	-426.82	200.86	1643.96	1652184.15	14296135.30	39°22'06.858"N	80°57'30.107"W	1656.19	83.034	1.21	-0.45	2.83		
5712.00	24.800	83.430	5390.32	-437.54	205.56	1684.40	1652224.57	14296139.99	39°22'06.904"N	80°57'29.592"W	1696.90	83.042	1.55	1.55	0.12		
5812.00	23.660	80.270	5481.51	-447.31	211.35	1725.02	1652265.17	14296145.78	39°22'06.961"N	80°57'29.075"W	1737.91	83.015	1.73	-1.14	-3.16		



Actual Wellpath Report

Tinker Unit 3H AWP Proj: 15454'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Tinker Unit 3H
Field	Tyler		Wellbore	Tinker Unit 3H AWP
Facility	Terry Snider Pad			

WELLPATH DATA (179 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
5859.00	23.800	85.060	5524.55	-452.07	213.76	1743.76	1652283.91	14296148.19	39°22'06.985"N	80°57'28.836"W	1756.81	83.011	4.11	0.30	10.19	
5969.00	21.910	79.710	5625.92	-462.68	219.34	1786.08	1652326.21	14296153.77	39°22'07.040"N	80°57'28.297"W	1799.49	82.999	2.55	-1.72	-4.86	BHI AT Curve <8-1/2">(5859')(5969'-15390')
6063.00	22.480	79.170	5712.95	-469.66	225.85	1820.98	1652361.10	14296160.28	39°22'07.104"N	80°57'27.853"W	1834.93	82.930	0.64	0.61	-0.57	
6110.00	22.590	79.800	5756.36	-473.21	229.13	1838.69	1652378.80	14296163.56	39°22'07.137"N	80°57'27.627"W	1852.91	82.897	0.56	0.23	1.34	
6157.00	22.410	72.480	5799.79	-475.73	233.43	1856.12	1652396.23	14296167.86	39°22'07.179"N	80°57'27.405"W	1870.74	82.832	5.97	-0.38	-15.57	
6204.00	23.030	59.860	5843.17	-475.09	240.75	1872.63	1652412.73	14296175.17	39°22'07.251"N	80°57'27.195"W	1888.04	82.674	10.44	1.32	-26.85	
6251.00	23.350	48.150	5886.40	-470.60	251.58	1887.52	1652427.62	14296186.00	39°22'07.358"N	80°57'27.005"W	1904.22	82.408	9.82	0.68	-24.91	
6298.00	21.990	42.050	5929.77	-463.55	264.33	1900.36	1652440.44	14296198.75	39°22'07.484"N	80°57'26.842"W	1918.65	82.081	5.78	-2.89	-12.98	
6346.00	20.360	38.920	5974.53	-455.53	277.50	1911.62	1652451.71	14296211.91	39°22'07.614"N	80°57'26.698"W	1931.66	81.740	4.13	-3.40	-6.52	
6393.00	20.280	34.400	6018.61	-447.03	290.59	1921.36	1652461.44	14296224.99	39°22'07.744"N	80°57'26.574"W	1943.21	81.400	3.34	-0.17	-9.62	
6440.00	24.220	27.460	6062.11	-436.22	305.87	1930.42	1652470.49	14296240.27	39°22'07.895"N	80°57'26.459"W	1954.50	80.996	10.06	8.38	-14.77	
6487.00	28.430	21.850	6104.23	-421.85	324.82	1939.03	1652479.10	14296259.21	39°22'08.082"N	80°57'26.349"W	1966.05	80.490	10.40	8.96	-11.94	
6534.00	32.140	16.980	6144.82	-404.03	347.17	1946.85	1652486.92	14296281.55	39°22'08.303"N	80°57'26.249"W	1977.56	79.889	9.46	7.89	-10.36	
6581.00	36.120	4.670	6183.76	-381.87	372.98	1951.64	1652491.70	14296307.35	39°22'08.556"N	80°57'26.188"W	1986.96	79.181	16.92	8.47	-26.19	
6629.00	38.990	35.030	6221.83	-354.92	402.18	1952.01	1652492.07	14296336.54	39°22'08.847"N	80°57'26.183"W	1993.01	78.358	11.39	5.98	-15.92	
6675.00	43.170	35.800	6256.50	-325.99	432.26	1949.28	1652489.35	14296366.61	39°22'09.144"N	80°57'26.218"W	1996.64	77.497	10.91	9.09	-9.20	
6720.00†	46.591	350.824	6288.39	-295.14	463.68	1944.74	1652484.81	14296398.02	39°22'09.454"N	80°57'26.275"W	1999.26	76.589	8.21	7.60	-4.39	Middlesex: 6720' MD
6723.00	46.820	350.700	6290.44	-293.01	465.84	1944.39	1652484.46	14296400.17	39°22'09.476"N	80°57'26.280"W	1999.42	76.527	8.21	7.64	-4.12	
6770.00	51.510	348.890	6321.17	-258.20	500.82	1938.08	1652478.15	14296435.14	39°22'09.822"N	80°57'26.360"W	2001.74	75.511	10.39	9.98	-3.85	
6817.00	54.840	347.610	6349.34	-221.17	537.65	1930.41	1652470.48	14296471.95	39°22'10.186"N	80°57'26.457"W	2003.88	74.437	7.41	7.09	-2.72	
6862.00	59.220	346.370	6373.82	-183.88	574.42	1921.90	1652461.98	14296508.71	39°22'10.549"N	80°57'26.566"W	2005.91	73.360	10.00	9.73	-2.76	
6877.00†	60.531	346.148	6381.35	-171.04	587.02	1918.82	1652458.90	14296521.30	39°22'10.674"N	80°57'26.605"W	2006.60	72.990	8.83	8.74	-1.48	Burkett: 6877' MD
6912.00	63.590	345.650	6397.74	-140.41	617.00	1911.28	1652451.37	14296551.28	39°22'10.970"N	80°57'26.700"W	2008.41	72.109	8.83	8.74	-1.42	
6931.00†	65.632	345.315	6405.89	-123.38	633.62	1906.98	1652447.07	14296567.89	39°22'11.134"N	80°57'26.755"W	2009.49	71.620	10.87	10.75	-1.76	Tully: 6931' MD
6956.00	68.320	344.890	6415.67	-100.55	655.85	1901.07	1652441.15	14296590.11	39°22'11.354"N	80°57'26.830"W	2011.02	70.966	10.87	10.75	-1.70	
6960.00†	68.750	344.868	6417.13	-96.85	659.45	1900.10	1652440.18	14296593.70	39°22'11.390"N	80°57'26.843"W	2011.28	70.860	10.75	10.74	-0.56	Marcellus: 6960' MD
7006.00	73.690	344.620	6431.94	-53.61	701.45	1888.64	1652428.73	14296635.69	39°22'11.805"N	80°57'26.988"W	2014.69	69.625	10.75	10.74	-0.54	
7053.00	80.040	344.370	6442.61	-8.15	745.53	1876.41	1652416.50	14296679.75	39°22'12.240"N	80°57'27.144"W	2019.09	68.331	13.52	13.51	-0.53	
7100.00	84.200	344.130	6449.05	38.13	790.33	1863.77	1652403.87	14296724.53	39°22'12.683"N	80°57'27.304"W	2024.42	67.021	8.87	8.85	-0.51	
7155.00	89.970	342.490	6451.85	92.81	842.92	1848.00	1652388.11	14296777.10	39°22'13.203"N	80°57'27.505"W	2031.16	65.481	10.91	10.49	-2.98	



Actual Wellpath Report

Tinker Unit 3H AWP Proj: 15454

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Terry Snider Pad
Slot	Tinker Unit 3H
Slot #05	Tinker Unit 3H

WELLPATH DATA (179 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
7195.00	89.910	6451.89	132.75	880.77	1835.08	1652375.19	14296814.94	39.2213.57	N	80.5727.66	2035.50	2035.50	64.361	6.70	-0.15	-6.70
89.940	89.940	336.400	6452.01	226.74	967.98	1800.03	1652340.16	39.2214.43	N	80.5728.11	2043.79	2043.79	61.731	3.63	0.03	-3.63
7289.00	89.660	335.660	6452.34	320.67	1053.87	1761.84	1652301.99	39.2215.28	N	80.5728.88	2052.98	2052.98	59.114	0.84	-0.30	-0.79
89.630	89.630	334.790	6452.92	414.55	1139.22	1722.45	1652262.61	39.2216.13	N	80.5729.10	2065.11	2065.11	56.520	0.93	-0.03	-0.93
7572.00	89.660	335.330	6453.51	509.42	1225.35	1682.40	1652222.57	39.2216.98	N	80.5729.61	2081.33	2081.33	53.933	0.57	0.03	0.57
90.090	89.630	334.340	6453.72	602.26	1309.53	1642.85	1652183.04	39.2217.81	N	80.5730.11	2100.91	2100.91	51.441	1.16	-0.46	-1.06
7759.00	89.630	333.960	6453.95	696.04	1394.12	1601.87	1652142.07	39.2218.65	N	80.5730.63	2123.57	2123.57	48.967	0.63	-0.49	-0.40
7853.00	89.660	334.940	6454.53	789.84	1478.92	1561.31	1652101.53	39.2219.49	N	80.5731.52	2150.56	2150.56	46.552	1.02	0.03	1.02
7478.00	89.630	336.040	6455.07	884.74	1565.35	1521.89	1652062.12	39.2220.34	N	80.5731.63	2183.22	2183.22	44.193	1.18	0.03	1.18
8042.00	90.060	338.210	6455.27	978.72	1651.95	1485.35	1652025.60	39.2221.20	N	80.5732.18	2221.53	2221.53	41.960	2.34	0.39	2.31
90.950	90.950	340.610	6454.44	1073.69	1740.87	1451.94	1651992.21	39.2222.08	N	80.5732.54	2266.88	2266.88	39.829	2.69	-1.07	2.53
8231.00	89.940	340.000	6453.70	1167.61	1829.37	1420.26	1651960.54	39.2222.95	N	80.5732.94	2315.97	2315.97	37.825	1.26	-0.65	-1.07
8326.00	89.970	342.750	6453.78	1262.45	1919.38	1389.93	1651930.22	39.2223.84	N	80.5733.33	2369.80	2369.80	35.910	2.89	0.03	2.89
8420.00	90.180	343.460	6453.66	1356.09	2009.33	1362.61	1651902.91	39.2224.73	N	80.5733.67	2427.78	2427.78	34.143	0.79	0.22	0.76
8514.00	90.030	341.880	6453.48	1449.79	2099.06	1334.61	1651874.92	39.2225.62	N	80.5734.05	2487.41	2487.41	32.449	1.69	-0.16	-1.68
8608.00	90.890	339.580	6452.73	1543.68	2187.78	1303.59	1651843.92	39.2226.49	N	80.5734.42	2546.71	2546.71	30.789	2.61	0.91	-2.45
8703.00	89.940	336.080	6452.04	1638.66	2275.74	1267.75	1651808.09	39.2227.36	N	80.5734.85	2605.03	2605.03	29.121	3.82	-1.00	-3.68
8797.00	90.030	334.420	6452.07	1732.54	2361.10	1228.40	1651768.75	39.2228.21	N	80.5735.38	2661.53	2661.53	27.486	1.77	0.10	-1.77
8892.00	90.000	339.880	6452.04	1827.49	2448.61	1191.52	1651731.89	39.2229.07	N	80.5735.85	2723.13	2723.13	25.948	5.75	-0.03	5.75
8986.00	90.000	338.220	6452.04	1921.47	2536.40	1157.91	1651698.30	39.2229.94	N	80.5736.28	2788.20	2788.20	24.538	1.77	0.00	-1.77
9080.00	90.800	336.680	6451.38	2015.46	2623.20	1121.87	1651662.26	39.2230.80	N	80.5736.74	2853.03	2853.03	23.155	1.85	0.85	-1.64
9174.00	90.220	335.020	6450.55	2109.38	2708.97	1083.41	1651623.83	39.2231.65	N	80.5737.23	2917.58	2917.58	21.798	1.87	-0.62	-1.77
9269.00	90.060	334.350	6450.32	2204.21	2794.85	1042.79	1651583.22	39.2232.49	N	80.5737.74	2983.05	2983.05	20.461	0.73	-0.17	-0.71
9362.00	89.230	335.170	6450.89	2297.05	2878.96	1003.13	1651543.58	39.2233.30	N	80.5738.25	3048.72	3048.72	19.210	1.25	-0.89	0.88
9456.00	89.420	341.080	6452.00	2391.00	2966.15	968.13	1651508.59	39.2234.19	N	80.5738.69	3120.15	3120.15	18.076	6.29	0.20	6.29
9550.00	90.060	342.260	6452.43	2484.82	3055.38	938.57	1651479.04	39.2235.04	N	80.5739.07	3196.29	3196.29	17.076	1.43	0.68	1.26
9643.00	92.030	339.420	6450.73	2577.68	3143.20	908.06	1651448.54	39.2235.94	N	80.5739.46	3271.74	3271.74	16.114	3.72	2.12	-3.05
9738.00	89.450	337.280	6449.50	2672.66	3231.48	873.01	1651413.51	39.2236.81	N	80.5739.90	3347.33	3347.33	15.118	3.53	-2.72	-2.25
9832.00	89.110	338.790	6450.68	2766.65	3318.64	837.86	1651378.37	39.2237.67	N	80.5740.35	3422.78	3422.78	14.169	1.65	-0.36	1.61
9926.00	89.480	341.370	6451.84	2860.58	3407.01	805.84	1651346.36	39.2238.55	N	80.5740.76	3501.01	3501.01	13.307	2.77	0.39	2.74



Actual Wellpath Report

Tinker Unit 3H AWP Proj: 15454'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Tinker Unit 3H
Field	Tyler	Wellbore	Tinker Unit 3H AWB
Facility	Terry Snider Pad		

WELLPATH DATA (179 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
10021.00	90.370	342.630	6451.97	2955.35	3497.35	776.48	1651317.02	14299430.47	39°22'39.443"N	80°57'41.134"W	3582.51	12.518	1.62	0.94	1.33	
10115.00	90.090	341.990	6451.59	3049.10	3586.91	747.92	1651288.47	14299519.99	39°22'40.328"N	80°57'41.497"W	3664.05	11.778	0.74	-0.30	-0.68	
10209.00	90.310	337.140	6451.26	3143.04	3674.97	715.11	1651255.67	14299608.01	39°22'41.199"N	80°57'41.915"W	3743.90	11.012	5.16	0.23	-5.16	
10304.00	89.910	333.390	6451.08	3237.91	3761.23	675.37	1651215.94	14299694.24	39°22'42.052"N	80°57'42.420"W	3821.39	10.180	3.97	-0.42	-3.95	
10398.00	89.880	334.920	6451.25	3331.68	3845.83	634.39	1651174.98	14299778.80	39°22'42.888"N	80°57'42.942"W	3897.80	9.367	1.63	-0.03	1.63	
10492.00	89.880	334.560	6451.45	3425.52	3930.84	594.28	1651134.89	14299863.78	39°22'43.728"N	80°57'43.452"W	3975.51	8.597	0.38	0.00	-0.38	
10587.00	90.060	334.180	6451.50	3520.32	4016.49	553.18	1651093.81	14299949.40	39°22'44.575"N	80°57'43.975"W	4054.41	7.842	0.44	0.19	-0.40	
10681.00	89.570	335.960	6451.80	3614.18	4101.73	513.56	1651054.21	14300034.60	39°22'45.418"N	80°57'44.479"W	4133.76	7.137	1.96	-0.52	1.89	
10776.00	89.970	337.710	6452.18	3709.15	4189.07	476.19	1651016.85	14300121.90	39°22'46.281"N	80°57'44.955"W	4216.05	6.485	1.89	0.42	1.84	
10870.00	89.940	338.120	6452.26	3803.15	4276.17	440.85	1650981.53	14300208.97	39°22'47.142"N	80°57'45.404"W	4298.83	5.886	0.44	-0.03	0.44	
10964.00	89.940	338.050	6452.35	3897.15	4363.38	405.77	1650946.46	14300296.14	39°22'48.004"N	80°57'45.850"W	4382.20	5.313	0.07	0.00	-0.07	
11058.00	89.910	339.010	6452.48	3991.15	4450.85	371.36	1650912.07	14300383.58	39°22'48.869"N	80°57'46.288"W	4466.32	4.770	1.02	-0.03	1.02	
11152.00	90.030	340.770	6452.53	4085.10	4539.12	339.05	1650879.76	14300471.81	39°22'49.741"N	80°57'46.699"W	4551.76	4.272	1.88	0.13	1.87	
11247.00	89.880	341.430	6452.60	4179.97	4629.00	308.27	1650849.00	14300561.66	39°22'50.630"N	80°57'47.091"W	4639.25	3.810	0.71	-0.16	0.69	
11341.00	89.910	341.930	6452.77	4273.78	4718.23	278.73	1650819.47	14300650.86	39°22'51.512"N	80°57'47.466"W	4726.46	3.381	0.53	0.03	0.53	
11435.00	89.910	340.820	6452.92	4367.63	4807.31	248.71	1650789.46	14300739.90	39°22'52.392"N	80°57'47.848"W	4813.74	2.962	1.18	0.00	-1.18	
11529.00	90.090	340.370	6452.92	4461.54	4895.97	217.48	1650758.24	14300828.52	39°22'53.269"N	80°57'48.246"W	4900.79	2.543	0.52	0.19	-0.48	
11623.00	89.630	341.360	6453.15	4555.43	4984.77	186.66	1650727.44	14300917.29	39°22'54.147"N	80°57'48.638"W	4988.27	2.145	1.16	-0.49	1.05	
11717.00	89.600	341.630	6453.78	4649.26	5073.91	156.83	1650697.62	14301006.39	39°22'55.028"N	80°57'49.017"W	5076.33	1.770	0.29	-0.03	0.29	
11811.00	89.570	340.400	6454.46	4743.14	5162.79	126.25	1650667.05	14301095.24	39°22'55.906"N	80°57'49.406"W	5164.34	1.401	1.31	-0.03	-1.31	
11906.00	89.480	335.780	6455.25	4838.11	5250.90	90.81	1650631.63	14301183.31	39°22'56.777"N	80°57'49.857"W	5251.69	0.991	4.86	-0.09	-4.86	
12000.00	89.540	335.360	6456.05	4932.01	5336.48	51.94	1650592.77	14301268.86	39°22'57.623"N	80°57'50.352"W	5336.74	0.558	0.45	0.06	-0.45	
12094.00	89.540	336.040	6456.81	5025.93	5422.15	13.26	1650554.10	14301354.49	39°22'58.470"N	80°57'50.844"W	5422.17	0.140	0.72	0.00	0.72	
12188.00	89.850	338.220	6457.31	5119.90	5508.76	-23.27	1650517.59	14301441.06	39°22'59.326"N	80°57'51.308"W	5508.81	359.758	2.34	0.33	2.32	
12283.00	89.940	338.280	6457.48	5214.90	5596.99	-58.47	1650482.40	14301529.26	39°23'00.198"N	80°57'51.756"W	5597.30	359.401	0.11	0.09	0.06	
12377.00	90.250	336.070	6457.33	5308.89	5683.63	-94.94	1650445.95	14301615.86	39°23'01.055"N	80°57'52.220"W	5684.42	359.043	2.37	0.33	-2.35	
12471.00	90.000	334.490	6457.12	5402.77	5769.01	-134.24	1650406.66	14301701.21	39°23'01.899"N	80°57'52.720"W	5770.57	358.667	1.70	-0.27	-1.68	
12565.00	89.880	335.870	6457.22	5496.64	5854.33	-173.70	1650367.22	14301786.49	39°23'02.742"N	80°57'53.223"W	5856.90	358.300	1.47	-0.13	1.47	
12659.00	89.720	334.650	6457.55	5590.53	5939.70	-213.04	1650327.90	14301871.83	39°23'03.586"N	80°57'53.723"W	5943.51	357.946	1.31	-0.17	-1.30	
12754.00	89.820	332.640	6457.93	5685.23	6024.82	-255.21	1650285.74	14301956.92	39°23'04.428"N	80°57'54.260"W	6030.22	357.574	2.12	0.11	-2.12	

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Tinker Unit 3H BHL Rev-2	6464.00	8537.12	-1255.22	1649286.14	14304468.21	39°23'29.262"N	80°58'06.984"W	point
Tinker Unit 3H LP Rev-2	6464.00	867.86	1827.43	1652367.54	14296802.03	39°22'13.450"N	80°57'27.767"W	point
Tinker Unit 3H BHL - Plat	6489.00	8774.68	-1350.73	1649190.66	14304705.67	39°23'31.610"N	80°58'08.200"W	point

WELLPATH COMPOSITION - Ref Wellbore: Tinker Unit 3H AWB Ref Wellpath: Tinker Unit 3H AWP Proj: 15454'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5859.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <8-3/4">(100' - 5847')	Tinker Unit 3H AWB
5859.00	15390.00	BHI AutoTrak Curve (Short)	02 BHI AT Curve <8-1/2">(5859')(5969'-15390')	Tinker Unit 3H AWB
15390.00	15454.00	Blind Drilling (std)	Projection to bit	Tinker Unit 3H AWB

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Environmental Protection



Actual Wellpath Report

Tinker Unit 3H AWP Proj: 15454'
Page n of nn

RECEIVED
 Office of Oil and Gas
 AUG 23 2018
 WV Department of
 Environmental Protection



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Tinker Unit 3H
Field	Tyler	Wellbore	Tinker Unit 3H AWB
Facility	Terry Snider Pad		

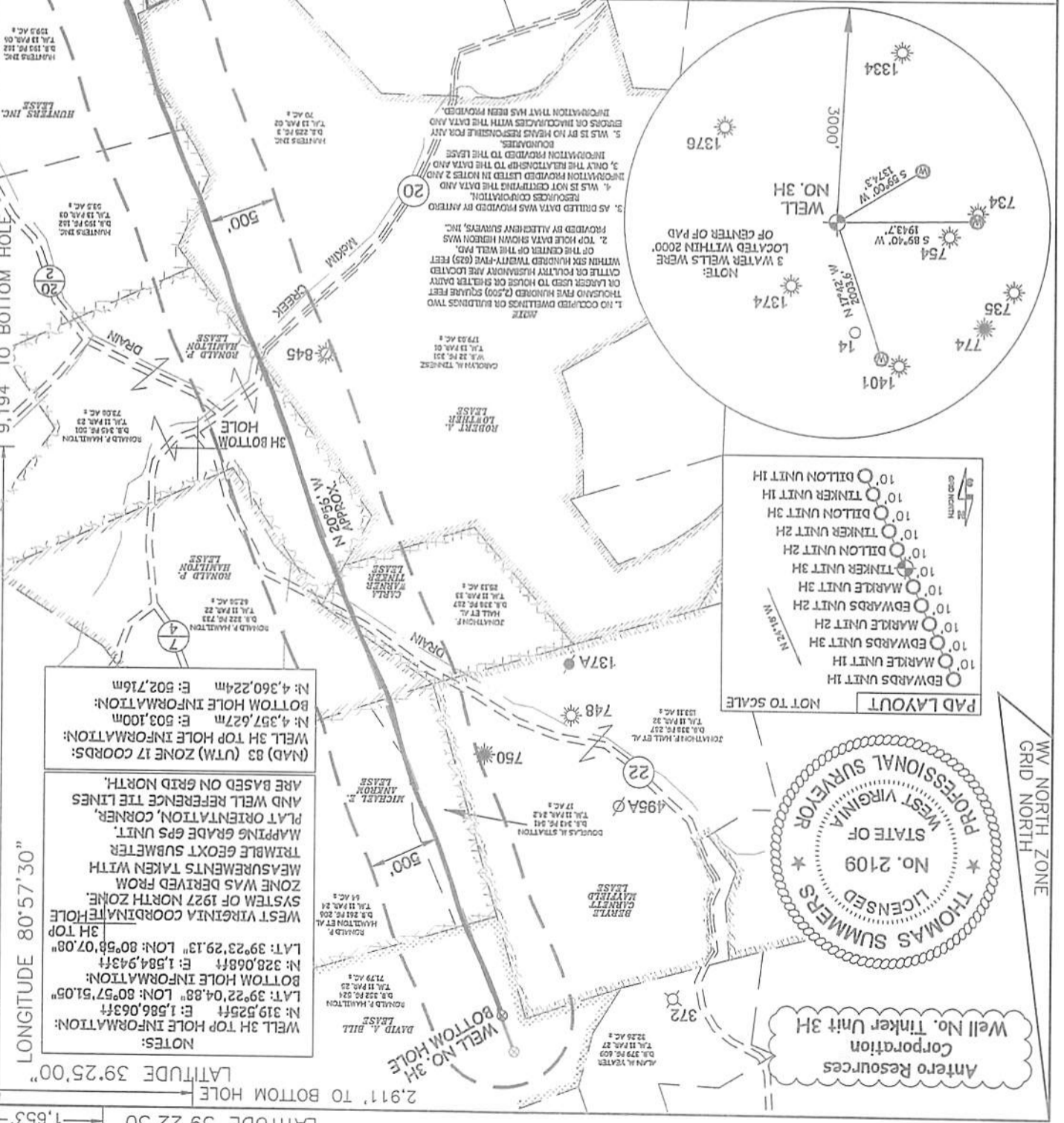
WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]		Comment
112.00	0.100	36.020	112.00		Gyrodata MS Gyro <8-3/4">(112'-5859')
5969.00	21.910	79.710	5625.92		BHI AT Curve <8-1/2">(5859')(5969'-15390')
6720.00	46.591	350.824	6288.39		Middlesex: 6720' MD
6877.00	60.531	346.148	6381.35		Burkett: 6877' MD
6931.00	65.632	345.315	6405.89		Tully: 6931' MD
6960.00	68.750	344.868	6417.13		Marcellus: 6960' MD
15454.00	90.620	339.650	6449.09		Projected MD at TD: 15454'

COMMENTS
<p>Wellpath general comments API: 47-095-02295-00-00 BHI Job #: 8213948 Rig: Patterson 342 Duration: 10.23.2016 - 10.24.2016 Gyrodata MS Gyro <8-3/4">(112'-5859') BHI AT Curve <8-1/2">(5859')(5969'-15390') Middlesex: 6720' MD Burkett: 6877' MD Tully: 6931' MD Marcellus: 6960' MD Projected MD at TD: 15454'</p>

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 COUNTY NAME COUNTY TYLER STATE COUNTY 095 PERMIT 02295
 LOCATION: ELEVATION 1,147 AS-BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 SURFACE OWNER RITCHIE PETROLEUM INC. QUADRANGLE PENNSBORO 7.5'-SHT. MIDDLEBOURNE 7.5'-BHL. DISTRICT MEADE
 OIL & GAS ROYALTY OWNER WASHFORD BROADWATER, TERRY L. SNIDER, HUNTERS INC.; LEASE ACRES: 30.92 ACRES +/-
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL
 (SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REFLUG
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,449' TVD 15,454' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMBER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP STREET DENVER, CO 80202
 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

JOB # 15-031WA DRAWING # TINKERHAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
 DATE 08/01/18 OPERATOR'S WELL # TINKER UNIT 3H

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WILLOW LAND SURVEYING P.L.C. 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415



NOTES:
 WELL 3H TOP HOLE INFORMATION: N: 319.525ft E: 1,586.063ft
 BOTTOM HOLE INFORMATION: N: 328.068ft E: 1,584.943ft
 LAT: 39°22'04.88" LON: 80°57'51.05"
 WEST VIRGINIA COORDINATE HOLE 3H TOP
 SYSTEM OF 1927 NORTH ZONE. MEASUREMENTS TAKEN WITH TRIANGLE GEOMX SUBMETER MAPPING GRADE GPS UNIT. AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.
 (NAD 83) (UTM) ZONE 17 COORDS: WELL 3H TOP HOLE INFORMATION: N: 4,397.627m E: 503.100m
 BOTTOM HOLE INFORMATION: N: 4,360.224m E: 502.716m

LONGITUDE 80°57'30" LONGITUDE 80°57'30" LONGITUDE 80°57'30"
 LATITUDE 39°22'30" LATITUDE 39°25'00" LATITUDE 39°22'30"
 2,911' TO BOTTOM HOLE 2,542' 1,653'



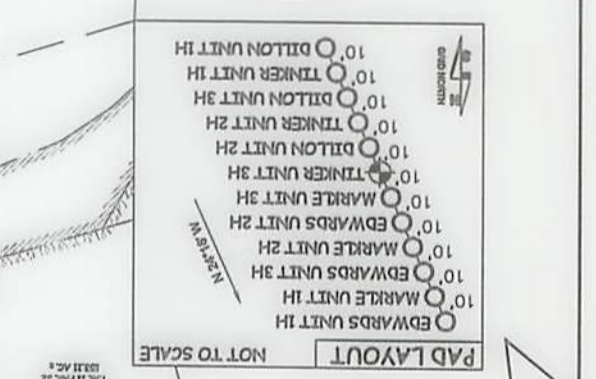
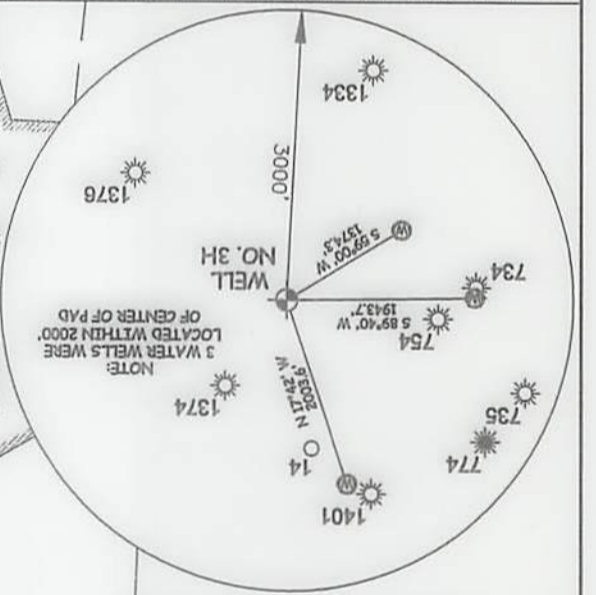
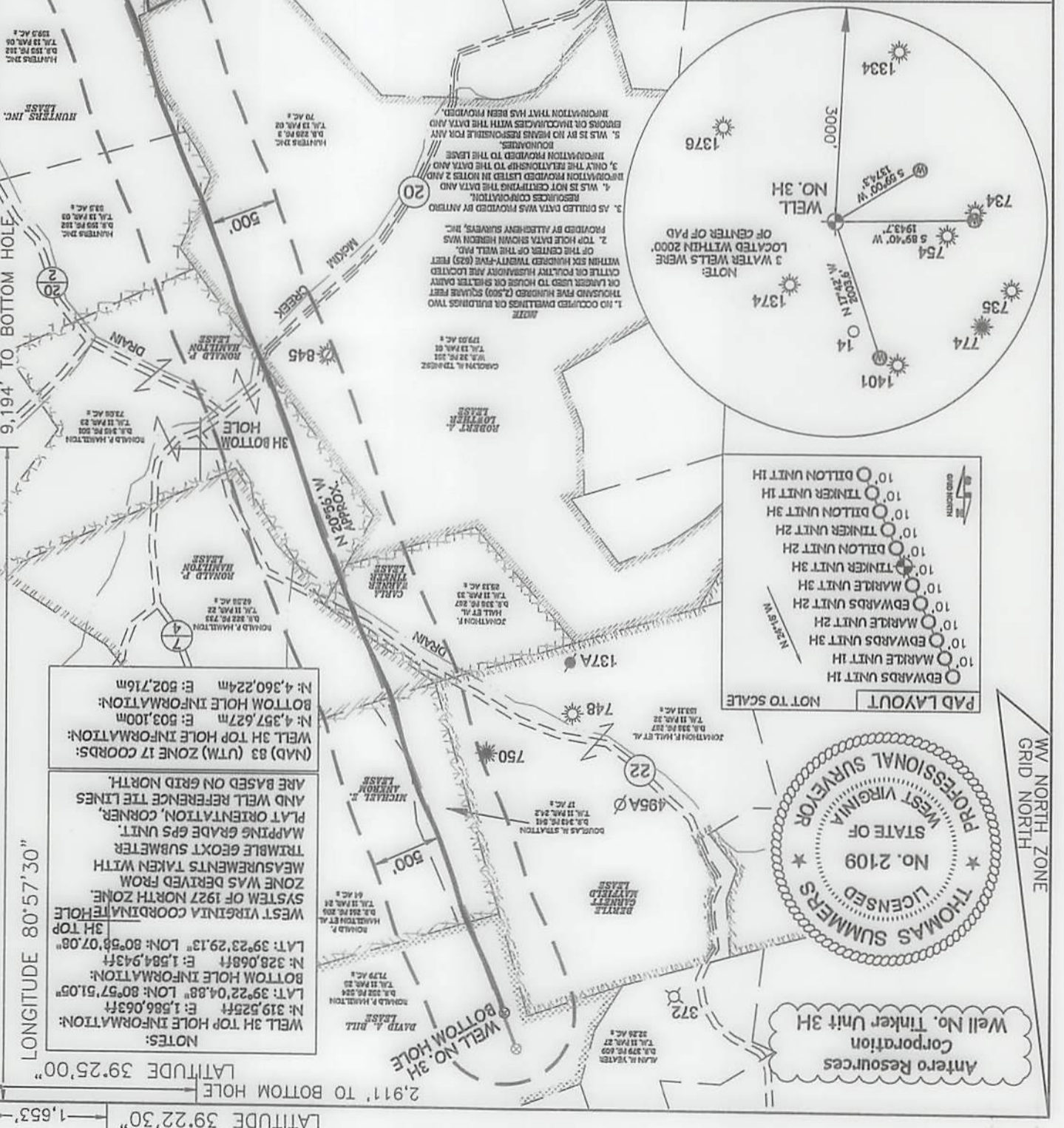
Antero Resources Corporation
 Well No. Tinker Unit 3H

WV NORTH ZONE
 GRID NORTH

WELL TYPE: OIL GAS X LIQUID INJECTION
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1,147 AS-BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE PENNSBORO 7.5 - SH1 MIDDLEBOURNE 7.5 - BHL DISTRICT MEADE COUNTY TYLER
 SURFACE OWNER RITCHIE PETROLEUM INC.
 OIL & GAS ROYALTY OWNER WASHBURN BROADWATER, TERRY L. SNIDER, HUNTERS INC.
 LEASE ACRES: 30.92 ACRES +/-
 COUNTY NAME PERMIT NAME
 COUNTY TYLER STATE COUNTY PERMIT
 WASTE DISPOSAL 47 095 02295
 WASHINGTON COUNTY PERMIT 02295
 WASHINGTON COUNTY PERMIT 02295

JOB # 15-031WA
 DRAWING # TINKERHAD
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY
 SUBMETER
 PROVEN SOURCE OF ELEV. SUBMETER
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS
 STATE OF WEST VIRGINIA
 DATE 08/01/18
 OPERATOR'S WELL # TINKER UNIT 3H

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO
 WEST VIRGINIA 26415
 STATE OF WEST VIRGINIA
 OFFICE OF ENVIRONMENTAL PROTECTION,
 DIVISION OF OIL AND GAS
 THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT
 TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE
 INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND
 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



Antero Resources Corporation
 Well No. Tinker Unit 3H
 THOMAS SUMMERS
 LICENSED
 STATE OF WEST VIRGINIA
 No. 2109
 PROFESSIONAL SURVEYOR

NOTES:
 WELL 3H TOP HOLE INFORMATION:
 N: 319.255ft E: 1,586.063ft
 LAT: 39°22'04.88" LON: 80°57'51.05"
 BOTTOM HOLE INFORMATION:
 N: 328.068ft E: 1,584.943ft
 LAT: 39°23'29.13" LON: 80°58'07.08"
 WEST VIRGINIA COORDINATE HOLE
 SYSTEM OF 1927 NORTH ZONE
 ZONE WAS DERIVED FROM
 MEASUREMENTS TAKEN WITH
 TRIMBLE GEOXT SUBMETER
 MAPPING GRADE GPS UNIT.
 AND WELL REFERENCE THE LINES
 ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:
 WELL 3H TOP HOLE INFORMATION:
 N: 4,357.627m E: 503.100m
 BOTTOM HOLE INFORMATION:
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