



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
 Field: Tyler
 Facility: Shepherd Pad

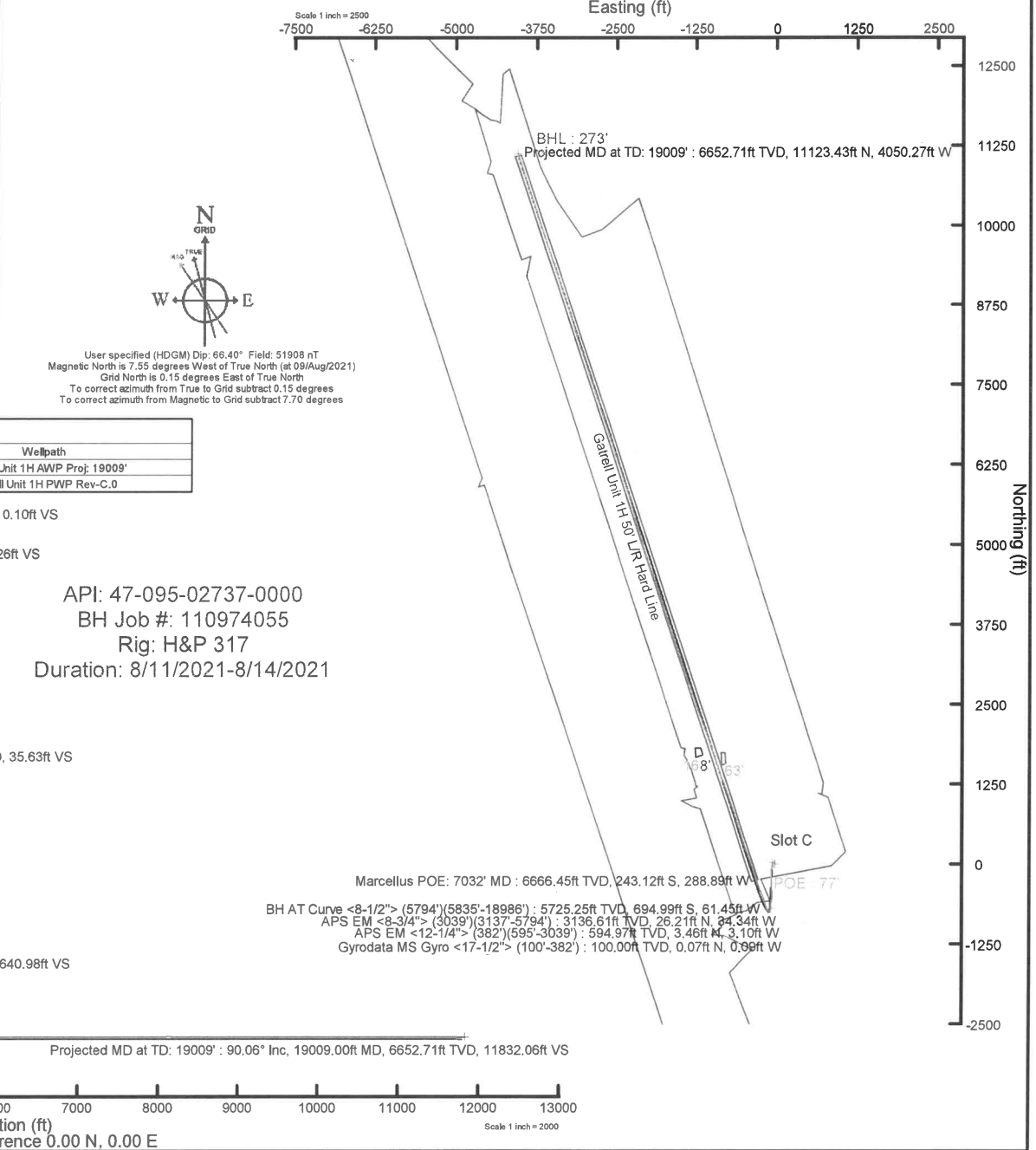
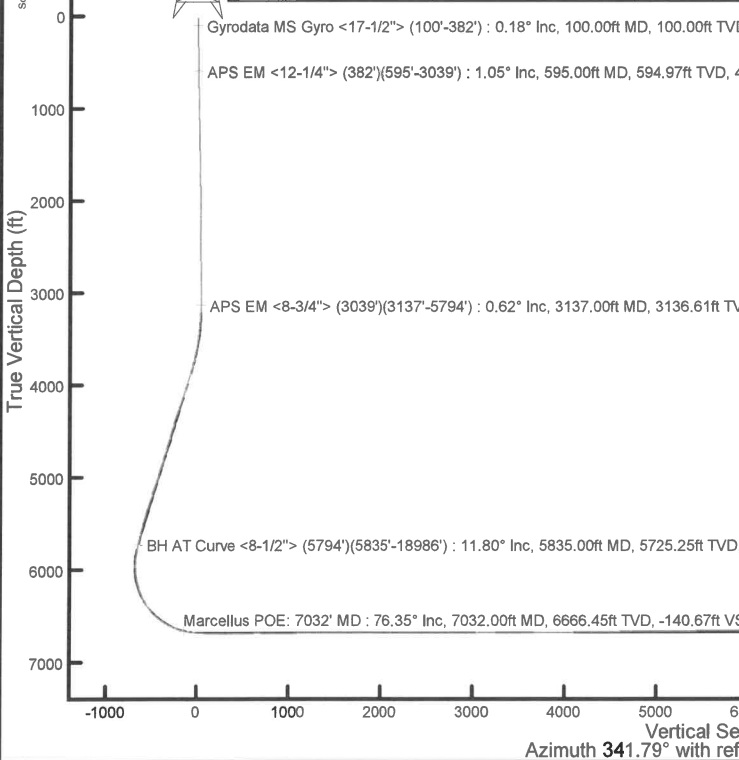
Slot: Slot C
 Well: Gatrell Unit 1H
 Wellbore: Gatrell Unit 1H PWB

Pilot reference wellpath is Gatrell Unit 1H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 960.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -935 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: schuyler on 2021-09-03; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Shepherd Pad	1707846.620	14305279.260	39°23'36.4150"N	80°45'40.7780"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot C	29.95	1.25	1707847.870	14305309.200	39°23'36.7110"N 80°45'40.7611"W
H&P 317 (RKB) to Ground level (At Slot: Slot C)			25.5ft		
Mean Sea Level to Ground level (At Slot: Slot C)			-935ft		
H&P 317 (RKB) to Mean Sea Level			960.5ft		

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3039.00	0.690	272.050	3038.62	26.35	-33.24	35.42
Proj. to Bottom	3135.00	0.690	272.050	3134.61	26.39	-34.40	35.82
KOP 1	3215.00	0.690	272.050	3214.60	26.42	-35.36	36.15
End of 3D Arc	3822.16	18.211	182.801	3811.57	-69.01	-43.72	-51.89
Curve KOP	5875.73	18.211	182.801	5762.28	-710.03	-75.09	-651.01
POE	7031.96	75.440	341.794	6661.00	-255.71	-312.75	-145.17
Landing Pt.	7213.95	90.000	341.794	6684.00	-84.68	-369.00	34.88
BHL	18972.41	90.000	341.794	6684.00	11085.11	-4042.83	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Gatrell Unit 1H	Gatrell Unit 1H AWB	Gatrell Unit 1H AWP Proj: 19009'
Slot C	Gatrell Unit 1H	Gatrell Unit 1H PWB	Gatrell Unit 1H PWP Rev-C.0



API: 47-095-02737-0000
 BH Job #: 110974055
 Rig: H&P 317
 Duration: 8/11/2021-8/14/2021

Vertical Section (ft)
 Azimuth 341.79° with reference 0.00 N, 0.00 E



Actual Wellpath Report
 Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999605	Report Generated	03/Sep/2021 at 13:30
Convergence at slot	0.15° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	29.95	1.25	1707847.87	14305309.20	39°23'36.7110"N	80°45'40.7611"W
Facility Reference Pt			1707846.62	14305279.26	39°23'36.4150"N	80°45'40.7780"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	960.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	960.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot C)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.79°



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (207 stations) † = interpolated, ‡ = extrapolated station																
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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
0.00†	0.000	308.080	0.00	0.00	0.00	0.00	1707847.87	14305309.20	39°23'36.7110"N	80°45'40.7611"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	308.080	25.50	0.00	0.00	0.00	1707847.87	14305309.20	39°23'36.7110"N	80°45'40.7611"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.180	308.080	100.00	0.10	0.07	-0.09	1707847.78	14305309.27	39°23'36.7117"N	80°45'40.7622"W	0.12	308.080	0.24	0.24	0.00	Gyrodata MS Gyro <17-1/2"> (100'-382')
200.00	0.170	293.320	200.00	0.33	0.23	-0.35	1707847.52	14305309.43	39°23'36.7133"N	80°45'40.7655"W	0.42	302.908	0.05	-0.01	-14.76	
300.00	0.230	310.410	300.00	0.60	0.42	-0.64	1707847.23	14305309.62	39°23'36.7151"N	80°45'40.7692"W	0.76	303.020	0.08	0.06	17.09	
382.00	0.700	321.680	382.00	1.21	0.92	-1.08	1707846.79	14305310.12	39°23'36.7201"N	80°45'40.7747"W	1.41	310.392	0.58	0.57	13.74	
595.00	1.050	321.290	594.97	4.26	3.46	-3.10	1707844.77	14305312.66	39°23'36.7453"N	80°45'40.8005"W	4.65	318.102	0.16	0.16	-0.18	APS EM <12-1/4"> (382')(595'-3039')
685.00	1.050	324.720	684.96	5.82	4.78	-4.10	1707843.78	14305313.97	39°23'36.7583"N	80°45'40.8131"W	6.29	319.385	0.07	0.00	3.81	
776.00	1.070	328.490	775.94	7.44	6.18	-5.02	1707842.85	14305315.38	39°23'36.7722"N	80°45'40.8248"W	7.96	320.910	0.08	0.02	4.14	
867.00	1.250	327.680	866.92	9.23	7.74	-6.00	1707841.88	14305316.94	39°23'36.7877"N	80°45'40.8372"W	9.79	322.250	0.20	0.20	-0.89	
957.00	1.200	324.230	956.90	11.08	9.34	-7.07	1707840.80	14305318.54	39°23'36.8035"N	80°45'40.8508"W	11.71	322.864	0.10	-0.06	-3.83	
1048.00	1.080	328.710	1047.88	12.83	10.85	-8.07	1707839.80	14305320.04	39°23'36.8184"N	80°45'40.8635"W	13.52	323.330	0.16	-0.13	4.92	
1142.00	1.160	330.910	1141.86	14.62	12.43	-9.00	1707838.88	14305321.63	39°23'36.8341"N	80°45'40.8752"W	15.35	324.109	0.10	0.09	2.34	
1237.00	1.200	321.880	1236.84	16.50	14.06	-10.08	1707837.79	14305323.25	39°23'36.8502"N	80°45'40.8890"W	17.30	324.358	0.20	0.04	-9.51	
1332.00	1.110	320.990	1331.83	18.30	15.55	-11.27	1707836.60	14305324.75	39°23'36.8650"N	80°45'40.9041"W	19.21	324.069	0.10	-0.09	-0.94	
1522.00	1.480	305.520	1521.78	22.00	18.41	-14.43	1707833.45	14305327.60	39°23'36.8933"N	80°45'40.9442"W	23.39	321.914	0.27	0.19	-8.14	
1617.00	1.240	310.320	1616.75	23.86	19.79	-16.21	1707831.67	14305328.98	39°23'36.9070"N	80°45'40.9669"W	25.58	320.676	0.28	-0.25	5.05	
1712.00	1.140	308.070	1711.73	25.52	21.04	-17.74	1707830.14	14305330.23	39°23'36.9194"N	80°45'40.9863"W	27.52	319.861	0.12	-0.11	-2.37	
1806.00	1.020	303.810	1805.71	26.96	22.08	-19.17	1707828.71	14305331.27	39°23'36.9297"N	80°45'41.0045"W	29.24	319.033	0.15	-0.13	-4.53	
1901.00	0.920	309.560	1900.70	28.27	23.03	-20.46	1707827.42	14305332.22	39°23'36.9392"N	80°45'41.0209"W	30.81	318.387	0.15	-0.11	6.05	
1996.00	0.950	306.390	1995.69	29.56	23.99	-21.68	1707826.20	14305333.18	39°23'36.9486"N	80°45'41.0364"W	32.33	317.890	0.06	0.03	-3.34	
2091.00	0.740	302.810	2090.68	30.68	24.79	-22.83	1707825.05	14305333.98	39°23'36.9566"N	80°45'41.0510"W	33.70	317.351	0.23	-0.22	-3.77	
2186.00	0.750	292.710	2185.67	31.56	25.36	-23.92	1707823.96	14305334.55	39°23'36.9623"N	80°45'41.0649"W	34.86	316.672	0.14	0.01	-10.63	
2281.00	0.610	288.960	2280.66	32.28	25.76	-24.97	1707822.91	14305334.95	39°23'36.9663"N	80°45'41.0783"W	35.88	315.893	0.15	-0.15	-3.95	
2376.00	0.720	274.400	2375.66	32.81	25.97	-26.05	1707821.83	14305335.16	39°23'36.9684"N	80°45'41.0919"W	36.78	314.920	0.21	0.12	-15.33	
2470.00	0.640	281.690	2469.65	33.30	26.12	-27.15	1707820.73	14305335.31	39°23'36.9699"N	80°45'41.1060"W	37.68	313.899	0.13	-0.09	7.76	
2565.00	0.550	273.200	2564.64	33.73	26.26	-28.12	1707819.76	14305335.45	39°23'36.9713"N	80°45'41.1184"W	38.48	313.035	0.13	-0.09	-8.94	
2660.00	0.550	272.710	2659.64	34.06	26.30	-29.03	1707818.85	14305335.49	39°23'36.9717"N	80°45'41.1300"W	39.18	312.177	0.00	0.00	-0.52	
2755.00	0.540	269.970	2754.64	34.36	26.33	-29.94	1707817.94	14305335.52	39°23'36.9720"N	80°45'41.1415"W	39.87	311.328	0.03	-0.01	-2.88	
2850.00	0.670	261.490	2849.63	34.60	26.24	-30.93	1707816.95	14305335.43	39°23'36.9712"N	80°45'41.1542"W	40.57	310.311	0.17	0.14	-8.93	



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (207 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
2945.00	0.730	277.950	2944.62	34.96	26.25	-32.08	1707815.80	14305335.43	39°23'36.9712"N	80°45'41.1688"W	41.45	309.285	0.22	0.06	17.33	
3039.00	0.690	272.050	3038.62	35.42	26.35	-33.24	1707814.64	14305335.54	39°23'36.9723"N	80°45'41.1836"W	42.42	308.402	0.09	-0.04	-6.28	
3137.00	0.620	252.570	3136.61	35.63	26.21	-34.34	1707813.55	14305335.40	39°23'36.9710"N	80°45'41.1975"W	43.20	307.356	0.24	-0.07	-19.88	APS EM <8-3/4"> (3039')(3137'-5794')
3232.00	3.570	190.040	3231.54	33.03	23.14	-35.34	1707812.54	14305332.33	39°23'36.9407"N	80°45'41.2105"W	42.25	303.217	3.50	3.11	-65.82	
3326.00	4.520	185.100	3325.31	27.05	16.57	-36.18	1707811.70	14305325.77	39°23'36.8757"N	80°45'41.2214"W	39.80	294.608	1.08	1.01	-5.26	
3421.00	6.920	186.690	3419.83	18.42	7.16	-37.18	1707810.70	14305316.36	39°23'36.7827"N	80°45'41.2344"W	37.87	280.897	2.53	2.53	1.67	
3516.00	10.090	188.590	3513.77	5.80	-6.76	-39.09	1707808.79	14305302.45	39°23'36.6452"N	80°45'41.2592"W	39.67	260.193	3.35	3.34	2.00	
3611.00	11.300	188.700	3607.12	-9.93	-24.19	-41.74	1707806.14	14305285.02	39°23'36.4730"N	80°45'41.2936"W	48.24	239.911	1.27	1.27	0.12	
3706.00	13.740	189.100	3699.85	-28.26	-44.53	-44.94	1707802.95	14305264.69	39°23'36.2721"N	80°45'41.3349"W	63.26	225.260	2.57	2.57	0.42	
3801.00	17.000	188.910	3791.44	-50.65	-69.40	-48.87	1707799.02	14305239.83	39°23'36.0264"N	80°45'41.3859"W	84.88	215.155	3.43	3.43	-0.20	
3896.00	18.190	186.960	3882.00	-76.43	-97.84	-52.82	1707795.07	14305211.40	39°23'35.7454"N	80°45'41.4371"W	111.19	208.364	1.40	1.25	-2.05	
3990.00	18.640	184.350	3971.18	-103.58	-127.38	-55.74	1707792.15	14305181.87	39°23'35.4535"N	80°45'41.4753"W	139.04	203.633	1.00	0.48	-2.78	
4085.00	19.130	181.370	4061.07	-132.27	-158.08	-57.26	1707790.63	14305151.18	39°23'35.1501"N	80°45'41.4957"W	168.13	199.912	1.14	0.52	-3.14	
4180.00	19.600	179.180	4150.70	-162.14	-189.58	-57.41	1707790.49	14305119.70	39°23'34.8388"N	80°45'41.4986"W	198.08	196.847	0.91	0.49	-2.31	
4275.00	20.030	176.650	4240.08	-193.07	-221.75	-56.23	1707791.67	14305087.54	39°23'34.5208"N	80°45'41.4847"W	228.77	194.228	1.01	0.45	-2.66	
4369.00	18.650	180.830	4328.77	-222.84	-252.85	-55.50	1707792.39	14305056.45	39°23'34.2134"N	80°45'41.4765"W	258.87	192.381	2.08	-1.47	4.45	
4464.00	18.020	179.520	4418.95	-251.20	-282.74	-55.60	1707792.29	14305026.58	39°23'33.9180"N	80°45'41.4788"W	288.15	191.125	0.79	-0.66	-1.38	
4559.00	17.360	175.360	4509.46	-278.97	-311.56	-54.33	1707793.56	14304997.77	39°23'33.6331"N	80°45'41.4636"W	316.26	189.892	1.50	-0.69	-4.38	
4654.00	16.790	178.190	4600.28	-305.92	-339.40	-52.75	1707795.14	14304969.94	39°23'33.3579"N	80°45'41.4444"W	343.47	188.835	1.06	-0.60	2.98	
4749.00	17.990	180.390	4690.93	-332.98	-367.78	-52.42	1707795.47	14304941.56	39°23'33.0774"N	80°45'41.4411"W	371.50	188.111	1.44	1.26	2.32	
4846.00	16.850	176.690	4783.48	-360.77	-396.80	-51.71	1707796.18	14304912.56	39°23'32.7906"N	80°45'41.4330"W	400.15	187.425	1.64	-1.18	-3.81	
4941.00	17.390	174.360	4874.28	-387.93	-424.67	-49.52	1707798.37	14304884.69	39°23'32.5150"N	80°45'41.4061"W	427.55	186.651	0.92	0.57	-2.45	
5035.00	16.990	175.110	4964.08	-415.01	-452.34	-46.97	1707800.92	14304857.04	39°23'32.2416"N	80°45'41.3745"W	454.77	185.928	0.49	-0.43	0.80	
5130.00	18.920	179.710	5054.45	-443.17	-481.57	-45.71	1707802.18	14304827.82	39°23'31.9526"N	80°45'41.3594"W	483.74	185.422	2.52	2.03	4.84	
5225.00	19.650	184.080	5144.12	-472.61	-512.91	-46.76	1707801.12	14304796.50	39°23'31.6429"N	80°45'41.3740"W	515.04	185.209	1.70	0.77	4.60	
5320.00	19.910	186.960	5233.52	-502.03	-544.90	-49.86	1707798.03	14304764.52	39°23'31.3268"N	80°45'41.4145"W	547.17	185.228	1.06	0.27	3.03	
5414.00	20.180	190.620	5321.83	-530.72	-576.72	-54.79	1707793.10	14304732.71	39°23'31.0124"N	80°45'41.4783"W	579.32	185.427	1.36	0.29	3.89	
5509.00	19.370	185.600	5411.23	-559.49	-608.51	-59.35	1707788.55	14304700.93	39°23'30.6983"N	80°45'41.5374"W	611.40	185.570	1.98	-0.85	-5.28	
5699.00	14.670	180.960	5592.87	-611.07	-663.96	-62.83	1707785.07	14304645.51	39°23'30.1504"N	80°45'41.5836"W	666.92	185.405	2.57	-2.47	-2.44	
5794.00	12.640	175.710	5685.18	-632.53	-686.35	-62.25	1707785.64	14304623.12	39°23'29.9291"N	80°45'41.5770"W	689.17	185.182	2.50	-2.14	-5.53	



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

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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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
5835.00	11.800	173.680	5725.25	-640.98	-694.99	-61.45	1707786.44	14304614.48	39°23'29.8436"N	80°45'41.5672"W	697.70	185.053	2.30	-2.05	-4.95	BH AT Curve <8-1/2'> (5794')(5835'-18986')
5896.00	12.010	191.140	5784.96	-652.62	-707.42	-61.99	1707785.90	14304602.06	39°23'29.7208"N	80°45'41.5745"W	710.13	185.008	5.89	0.34	28.62	
5991.00	11.120	213.070	5878.08	-666.97	-724.81	-68.90	1707778.99	14304584.68	39°23'29.5492"N	80°45'41.6631"W	728.07	185.431	4.69	-0.94	23.08	
6086.00	7.870	258.580	5971.89	-671.94	-733.79	-80.30	1707767.61	14304575.71	39°23'29.4607"N	80°45'41.8085"W	738.17	186.245	8.32	-3.42	47.91	
6181.00	11.820	299.150	6065.57	-664.00	-730.33	-95.19	1707752.72	14304579.16	39°23'29.4953"N	80°45'41.9981"W	736.51	187.426	8.15	4.16	42.71	
6275.00	15.250	317.680	6156.99	-645.62	-716.49	-111.94	1707735.98	14304593.00	39°23'29.6325"N	80°45'42.2109"W	725.18	188.879	5.84	3.65	19.71	
6370.00	21.250	341.520	6247.30	-616.94	-690.86	-125.84	1707722.08	14304618.61	39°23'29.8861"N	80°45'42.3871"W	702.23	190.323	9.96	6.32	25.09	
6411.00†	23.968	341.003	6285.14	-601.18	-675.94	-130.90	1707717.02	14304633.53	39°23'30.0338"N	80°45'42.4511"W	688.50	190.960	6.65	6.63	-1.26	Sycamore: 6411' MD
6465.00	27.550	340.470	6333.77	-577.72	-653.79	-138.65	1707709.27	14304655.67	39°23'30.2529"N	80°45'42.5491"W	668.33	191.973	6.65	6.63	-0.99	
6560.00	36.110	343.990	6414.41	-527.69	-606.09	-153.75	1707694.19	14304703.35	39°23'30.7248"N	80°45'42.7397"W	625.28	194.234	9.22	9.01	3.71	
6609.00†	40.187	342.492	6452.94	-497.44	-577.12	-162.49	1707685.45	14304732.31	39°23'31.0113"N	80°45'42.8501"W	599.56	195.725	8.53	8.32	-3.06	Middlesex: 6609' MD
6655.00	44.030	341.300	6487.06	-466.60	-547.81	-172.08	1707675.86	14304761.61	39°23'31.3012"N	80°45'42.9713"W	574.20	197.439	8.53	8.35	-2.59	
6749.00	54.350	337.350	6548.43	-395.65	-481.43	-197.34	1707650.61	14304827.96	39°23'31.9580"N	80°45'43.2908"W	520.30	202.289	11.43	10.98	-4.20	
6815.00†	59.720	337.072	6584.32	-340.47	-430.40	-218.78	1707629.18	14304878.98	39°23'32.4629"N	80°45'43.5622"W	482.81	206.945	8.14	8.14	-0.42	Burkett: 6815' MD
6844.00	62.080	336.960	6598.43	-315.22	-407.07	-228.68	1707619.29	14304902.29	39°23'32.6937"N	80°45'43.6874"W	466.90	209.326	8.14	8.14	-0.39	
6879.00†	64.377	337.957	6614.19	-284.06	-378.21	-240.65	1707607.31	14304931.14	39°23'32.9792"N	80°45'43.8390"W	448.28	212.468	7.04	6.56	2.85	Tully: 6879' MD
6939.00	68.330	339.580	6638.25	-229.19	-326.99	-260.54	1707587.43	14304982.34	39°23'33.4860"N	80°45'44.0906"W	418.09	218.547	7.04	6.59	2.71	
7032.00†	76.347	342.990	6666.45	-140.67	-243.12	-288.89	1707559.10	14305066.18	39°23'34.3157"N	80°45'44.4489"W	377.58	229.917	9.30	8.62	3.67	Marcellus POE: 7032' MD
7034.00	76.520	343.060	6666.92	-138.72	-241.26	-289.46	1707558.53	14305068.04	39°23'34.3341"N	80°45'44.4560"W	376.82	230.189	9.30	8.65	3.52	
7129.00	83.710	342.120	6683.22	-45.20	-152.02	-317.45	1707530.55	14305157.24	39°23'35.2168"N	80°45'44.8096"W	351.97	244.411	7.63	7.57	-0.99	
7223.00	87.010	339.890	6690.83	48.46	-63.45	-347.94	1707500.07	14305245.78	39°23'36.0930"N	80°45'45.1950"W	353.68	259.665	4.23	3.51	-2.37	
7317.00	89.850	339.910	6693.40	142.36	24.78	-380.23	1707467.79	14305333.97	39°23'36.9659"N	80°45'45.6033"W	381.04	273.729	3.02	3.02	0.02	
7411.00	90.620	340.020	6693.02	236.32	113.09	-412.43	1707435.60	14305422.25	39°23'37.8395"N	80°45'46.0106"W	427.66	285.334	0.83	0.82	0.12	
7506.00	90.370	339.310	6692.19	331.25	202.17	-445.45	1707402.60	14305511.29	39°23'38.7207"N	80°45'46.4281"W	489.18	294.411	0.79	-0.26	-0.75	
7600.00	89.910	341.980	6691.96	425.22	290.85	-476.60	1707371.46	14305599.93	39°23'39.5980"N	80°45'46.8219"W	558.33	301.394	2.88	-0.49	2.84	
7694.00	89.880	342.960	6692.14	519.21	380.48	-504.91	1707343.16	14305689.53	39°23'40.4846"N	80°45'47.1795"W	632.22	307.000	1.04	-0.03	1.04	
7788.00	90.280	342.200	6692.01	613.20	470.17	-533.05	1707315.03	14305779.18	39°23'41.3718"N	80°45'47.5350"W	710.77	311.413	0.91	0.43	-0.81	
7882.00	89.750	342.000	6691.98	707.20	559.62	-561.94	1707286.15	14305868.60	39°23'42.2566"N	80°45'47.9000"W	793.06	314.881	0.60	-0.56	-0.21	
7977.00	89.450	341.490	6692.64	802.20	649.83	-591.70	1707256.41	14305958.78	39°23'43.1490"N	80°45'48.2760"W	878.86	317.681	0.62	-0.32	-0.54	
8071.00	90.060	341.030	6693.05	896.19	738.85	-621.90	1707226.22	14306047.76	39°23'44.0296"N	80°45'48.6577"W	965.74	319.912	0.81	0.65	-0.49	



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (207 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
8166.00	90.310	340.440	6692.74	991.17	828.53	-653.24	1707194.89	14306137.40	39°23'44.9168"N	80°45'49.0540"W	1055.08	321.746	0.67	0.26	-0.62	
8260.00	90.490	340.780	6692.08	1085.15	917.20	-684.45	1707163.69	14306226.03	39°23'45.7939"N	80°45'49.4485"W	1144.43	323.268	0.41	0.19	0.36	
8355.00	90.520	341.100	6691.25	1180.14	1006.98	-715.47	1707132.68	14306315.78	39°23'46.6821"N	80°45'49.8407"W	1235.28	324.606	0.34	0.03	0.34	
8450.00	89.880	340.830	6690.91	1275.13	1096.79	-746.45	1707101.71	14306405.55	39°23'47.5705"N	80°45'50.2323"W	1326.70	325.761	0.73	-0.67	-0.28	
8544.00	90.120	340.860	6690.91	1369.11	1185.58	-777.30	1707070.88	14306494.31	39°23'48.4489"N	80°45'50.6223"W	1417.67	326.750	0.26	0.26	0.03	
8639.00	89.780	339.450	6691.00	1464.07	1274.94	-809.55	1707038.64	14306583.63	39°23'49.3329"N	80°45'51.0301"W	1510.24	327.586	1.53	-0.36	-1.48	
8734.00	90.310	341.100	6690.92	1559.03	1364.36	-841.61	1707006.69	14306673.02	39°23'50.2175"N	80°45'51.4355"W	1603.06	328.332	1.82	0.56	1.74	
8828.00	89.200	341.260	6691.32	1653.03	1453.33	-871.93	1706976.28	14306761.96	39°23'51.0977"N	80°45'51.8188"W	1694.83	329.038	1.19	-1.18	0.17	
8923.00	90.310	340.730	6691.73	1748.01	1543.15	-902.87	1706945.36	14306851.74	39°23'51.9862"N	80°45'52.2099"W	1787.87	329.669	1.29	1.17	-0.56	
9017.00	91.020	341.010	6690.64	1842.00	1631.96	-933.67	1706914.57	14306940.51	39°23'52.8647"N	80°45'52.5993"W	1880.16	330.225	0.81	0.76	0.30	
9112.00	90.400	341.710	6689.46	1936.98	1721.96	-964.03	1706884.22	14307030.48	39°23'53.7551"N	80°45'52.9831"W	1973.45	330.758	0.98	-0.65	0.74	
9206.00	90.030	339.740	6689.11	2030.96	1810.69	-995.06	1706853.20	14307119.17	39°23'54.6328"N	80°45'53.3753"W	2066.09	331.209	2.13	-0.39	-2.10	
9300.00	90.550	341.760	6688.63	2124.94	1899.43	-1026.05	1706822.23	14307207.87	39°23'55.5106"N	80°45'53.7671"W	2158.84	331.623	2.22	0.55	2.15	
9395.00	89.290	340.110	6688.77	2219.93	1989.21	-1057.08	1706791.21	14307297.62	39°23'56.3988"N	80°45'54.1594"W	2252.64	332.014	2.19	-1.33	-1.74	
9489.00	90.000	340.470	6689.35	2313.89	2077.70	-1088.78	1706759.52	14307386.08	39°23'57.2742"N	80°45'54.5603"W	2345.70	332.344	0.85	0.76	0.38	
9584.00	89.660	340.200	6689.63	2408.86	2167.16	-1120.75	1706727.57	14307475.50	39°23'58.1592"N	80°45'54.9646"W	2439.81	332.654	0.46	-0.36	-0.28	
9678.00	90.250	341.510	6689.70	2502.84	2255.96	-1151.58	1706696.75	14307564.26	39°23'59.0376"N	80°45'55.3543"W	2532.88	332.958	1.53	0.63	1.39	
9773.00	89.820	340.270	6689.65	2597.83	2345.72	-1182.68	1706665.66	14307653.99	39°23'59.9256"N	80°45'55.7475"W	2627.00	333.243	1.38	-0.45	-1.31	
9867.00	89.290	341.120	6690.38	2691.81	2434.43	-1213.75	1706634.60	14307742.67	39°24'0.8032"N	80°45'56.1404"W	2720.23	333.500	1.07	-0.56	0.90	
9961.00	90.580	340.770	6690.48	2785.80	2523.28	-1244.44	1706603.92	14307831.48	39°24'1.6821"N	80°45'56.5284"W	2813.46	333.748	1.42	1.37	-0.37	
10056.00	89.540	341.000	6690.38	2880.78	2613.04	-1275.55	1706572.83	14307921.20	39°24'2.5700"N	80°45'56.9217"W	2907.75	333.981	1.12	-1.09	0.24	
10150.00	93.540	340.680	6687.86	2974.72	2701.78	-1306.38	1706542.01	14308009.91	39°24'3.4479"N	80°45'57.3116"W	3001.04	334.195	4.27	4.26	-0.34	
10244.00	89.780	341.470	6685.14	3068.65	2790.65	-1336.85	1706511.55	14308098.74	39°24'4.3270"N	80°45'57.6968"W	3094.33	334.403	4.09	-4.00	0.84	
10339.00	90.400	341.130	6684.99	3163.65	2880.63	-1367.31	1706481.10	14308188.69	39°24'5.2171"N	80°45'58.0818"W	3188.66	334.608	0.74	0.65	-0.36	
10433.00	88.740	341.110	6685.69	3257.64	2969.57	-1397.72	1706450.70	14308277.59	39°24'6.0969"N	80°45'58.4663"W	3282.07	334.794	1.77	-1.77	-0.02	
10527.00	90.090	340.550	6686.65	3351.62	3058.35	-1428.59	1706419.85	14308366.34	39°24'6.9752"N	80°45'58.8566"W	3375.56	334.962	1.55	1.44	-0.60	
10621.00	90.060	341.750	6686.53	3445.61	3147.31	-1458.96	1706389.49	14308455.26	39°24'7.8551"N	80°45'59.2405"W	3469.02	335.130	1.28	-0.03	1.28	
10716.00	90.310	340.920	6686.22	3540.60	3237.31	-1489.36	1706359.10	14308545.23	39°24'8.7455"N	80°45'59.6249"W	3563.48	335.295	0.91	0.26	-0.87	
10810.00	90.550	341.080	6685.52	3634.59	3326.19	-1519.96	1706328.51	14308634.07	39°24'9.6247"N	80°46'0.0118"W	3657.02	335.441	0.31	0.26	0.17	
10904.00	91.110	340.270	6684.15	3728.56	3414.88	-1551.07	1706297.42	14308722.72	39°24'10.5020"N	80°46'0.4051"W	3750.63	335.572	1.05	0.60	-0.86	



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gatrell Unit 1H
Field	Tyler		API	47-095-02737-0000
Facility	Shepherd Pad		Wellbore	Gatrell Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (207 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
10999.00	90.590	341.360	6682.75	3823.54	3504.59	-1582.28	1706266.22	14308812.40	39°24'11.3895"N	80°46'0.7998"W	3845.23	335.701	1.27	-0.55	1.15	
11093.00	91.140	341.770	6681.33	3917.53	3593.76	-1612.00	1706236.51	14308901.53	39°24'12.2715"N	80°46'1.1755"W	3938.74	335.841	0.73	0.59	0.44	
11187.00	90.740	342.480	6679.78	4011.51	3683.21	-1640.85	1706207.67	14308990.95	39°24'13.1564"N	80°46'1.5400"W	4032.17	335.987	0.87	-0.43	0.76	
11282.00	90.980	342.860	6678.36	4106.49	3773.88	-1669.15	1706179.39	14309081.59	39°24'14.0533"N	80°46'1.8975"W	4126.53	336.141	0.47	0.25	0.40	
11376.00	90.310	340.950	6677.30	4200.48	3863.22	-1698.34	1706150.20	14309170.89	39°24'14.9370"N	80°46'2.2665"W	4220.05	336.269	2.15	-0.71	-2.03	
11470.00	91.690	343.320	6675.66	4294.45	3952.67	-1727.17	1706121.39	14309260.30	39°24'15.8218"N	80°46'2.6308"W	4313.55	336.396	2.92	1.47	2.52	
11564.00	90.220	342.100	6674.09	4388.42	4042.41	-1755.10	1706093.46	14309350.00	39°24'16.7094"N	80°46'2.9837"W	4406.97	336.531	2.03	-1.56	-1.30	
11659.00	89.940	342.000	6673.96	4483.42	4132.78	-1784.38	1706064.20	14309440.34	39°24'17.6034"N	80°46'3.3537"W	4501.54	336.647	0.31	-0.29	-0.11	
11753.00	91.720	342.010	6672.60	4577.41	4222.17	-1813.42	1706035.17	14309529.69	39°24'18.4876"N	80°46'3.7207"W	4595.13	336.757	1.89	1.89	0.01	
11847.00	90.550	342.190	6670.74	4671.39	4311.60	-1842.30	1706006.30	14309619.09	39°24'19.3722"N	80°46'4.0857"W	4688.71	336.864	1.26	-1.24	0.19	
11942.00	89.570	340.150	6670.64	4766.37	4401.51	-1872.96	1705975.65	14309708.96	39°24'20.2616"N	80°46'4.4734"W	4783.44	336.949	2.38	-1.03	-2.15	
12037.00	90.890	340.830	6670.26	4861.35	4491.05	-1904.69	1705943.94	14309798.47	39°24'21.1474"N	80°46'4.8746"W	4878.26	337.018	1.56	1.39	0.72	
12131.00	90.400	337.580	6669.20	4955.23	4578.91	-1938.05	1705910.59	14309886.29	39°24'22.0166"N	80°46'5.2968"W	4972.17	337.059	3.50	-0.52	-3.46	
12226.00	89.780	338.650	6669.05	5050.03	4667.06	-1973.46	1705875.19	14309974.41	39°24'22.8888"N	80°46'5.7450"W	5067.15	337.079	1.30	-0.65	1.13	
12320.00	90.800	342.110	6668.57	5143.99	4755.59	-2005.02	1705843.65	14310062.90	39°24'23.7645"N	80°46'6.1442"W	5160.98	337.139	3.84	1.09	3.68	
12415.00	90.920	341.600	6667.15	5238.98	4845.86	-2034.60	1705814.08	14310153.13	39°24'24.6574"N	80°46'6.5181"W	5255.66	337.224	0.55	0.13	-0.54	
12509.00	90.400	344.210	6666.06	5332.95	4935.69	-2062.23	1705786.46	14310242.93	39°24'25.5460"N	80°46'6.8671"W	5349.19	337.324	2.83	-0.55	2.78	
12604.00	90.460	343.990	6665.35	5427.87	5027.05	-2088.26	1705760.44	14310334.26	39°24'26.4496"N	80°46'7.1957"W	5443.53	337.442	0.24	0.06	-0.23	
12698.00	90.400	344.290	6664.64	5521.78	5117.47	-2113.94	1705734.77	14310424.64	39°24'27.3439"N	80°46'7.5200"W	5536.90	337.555	0.33	-0.06	0.32	
12793.00	90.460	344.040	6663.93	5616.70	5208.86	-2139.87	1705708.85	14310516.00	39°24'28.2478"N	80°46'7.8473"W	5631.28	337.667	0.27	0.06	-0.26	
12887.00	90.740	343.710	6662.95	5710.63	5299.16	-2165.97	1705682.76	14310606.26	39°24'29.1409"N	80°46'8.1769"W	5724.73	337.768	0.46	0.30	-0.35	
12981.00	90.830	344.310	6661.66	5804.55	5389.51	-2191.86	1705656.88	14310696.57	39°24'30.0346"N	80°46'8.5038"W	5818.17	337.869	0.65	0.10	0.64	
13076.00	90.830	344.710	6660.28	5899.43	5481.05	-2217.23	1705631.52	14310788.08	39°24'30.9400"N	80°46'8.8240"W	5912.53	337.975	0.42	0.00	0.42	
13170.00	90.770	343.640	6658.97	5993.34	5571.48	-2242.86	1705605.90	14310878.47	39°24'31.8344"N	80°46'9.1476"W	6005.98	338.072	1.14	-0.06	-1.14	
13264.00	90.710	343.610	6657.76	6087.29	5661.66	-2269.36	1705579.41	14310968.61	39°24'32.7263"N	80°46'9.4823"W	6099.54	338.158	0.07	-0.06	-0.03	
13358.00	89.940	342.980	6657.22	6181.25	5751.69	-2296.38	1705552.40	14311058.61	39°24'33.6168"N	80°46'9.8236"W	6193.17	338.235	1.06	-0.82	-0.67	
13453.00	90.220	341.590	6657.09	6276.25	5842.18	-2325.29	1705523.51	14311149.06	39°24'34.5119"N	80°46'10.1889"W	6287.93	338.297	1.49	0.29	-1.46	
13547.00	90.650	339.760	6656.38	6370.22	5930.88	-2356.39	1705492.41	14311237.73	39°24'35.3894"N	80°46'10.5823"W	6381.84	338.332	2.00	0.46	-1.95	
13641.00	89.970	342.940	6655.87	6464.20	6019.93	-2386.45	1705462.37	14311326.74	39°24'36.2703"N	80°46'10.9623"W	6475.70	338.375	3.46	-0.72	3.38	
13735.00	89.780	341.700	6656.07	6558.20	6109.49	-2414.99	1705433.84	14311416.26	39°24'37.1561"N	80°46'11.3231"W	6569.48	338.432	1.33	-0.20	-1.32	



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (207 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
13830.00	89.630	342.130	6656.56	6653.20	6199.79	-2444.48	1705404.36	14311506.53	39°24'38.0494"N	80°46'11.6959"W	6664.30	338.481	0.48	-0.16	0.45	
13924.00	89.940	341.070	6656.92	6747.19	6288.99	-2474.15	1705374.70	14311595.69	39°24'38.9317"N	80°46'12.0710"W	6758.16	338.525	1.17	0.33	-1.13	
14018.00	89.910	341.110	6657.04	6841.19	6377.91	-2504.62	1705344.25	14311684.58	39°24'39.8113"N	80°46'12.4562"W	6852.07	338.560	0.05	-0.03	0.04	
14113.00	89.820	342.120	6657.26	6936.18	6468.06	-2534.58	1705314.30	14311774.70	39°24'40.7031"N	80°46'12.8350"W	6946.94	338.602	1.07	-0.09	1.06	
14207.00	90.890	341.130	6656.68	7030.18	6557.27	-2564.21	1705284.68	14311863.86	39°24'41.5855"N	80°46'13.2097"W	7040.80	338.642	1.55	1.14	-1.05	
14301.00	89.570	341.810	6656.30	7124.17	6646.39	-2594.08	1705254.82	14311952.95	39°24'42.4671"N	80°46'13.5874"W	7134.69	338.679	1.58	-1.40	0.72	
14396.00	92.340	341.840	6654.72	7219.15	6736.63	-2623.71	1705225.20	14312043.16	39°24'43.3597"N	80°46'13.9619"W	7229.52	338.721	2.92	2.92	0.03	
14490.00	90.090	341.910	6652.73	7313.13	6825.94	-2652.94	1705195.98	14312132.43	39°24'44.2431"N	80°46'14.3315"W	7323.36	338.761	2.39	-2.39	0.07	
14584.00	89.780	342.620	6652.83	7407.12	6915.47	-2681.58	1705167.36	14312221.93	39°24'45.1287"N	80°46'14.6934"W	7417.18	338.805	0.82	-0.33	0.76	
14679.00	89.880	342.040	6653.12	7502.12	7005.99	-2710.41	1705138.53	14312312.41	39°24'46.0241"N	80°46'15.0578"W	7512.00	338.850	0.62	0.11	-0.61	
14773.00	90.030	341.930	6653.19	7596.12	7095.38	-2739.48	1705109.47	14312401.76	39°24'46.9083"N	80°46'15.4253"W	7605.86	338.889	0.20	0.16	-0.12	
14867.00	90.000	341.540	6653.16	7690.12	7184.64	-2768.94	1705080.03	14312490.99	39°24'47.7913"N	80°46'15.7978"W	7699.75	338.923	0.42	-0.03	-0.41	
14962.00	90.310	342.290	6652.91	7785.11	7274.95	-2798.43	1705050.55	14312581.26	39°24'48.6846"N	80°46'16.1706"W	7794.62	338.960	0.85	0.33	0.79	
15056.00	90.430	341.900	6652.30	7879.11	7364.39	-2827.33	1705021.66	14312670.67	39°24'49.5693"N	80°46'16.5359"W	7888.48	338.997	0.43	0.13	-0.41	
15151.00	89.880	341.150	6652.04	7974.11	7454.50	-2857.44	1704991.57	14312760.74	39°24'50.4606"N	80°46'16.9166"W	7983.39	339.027	0.98	-0.58	-0.79	
15245.00	90.180	341.900	6651.99	8068.11	7543.65	-2887.22	1704961.79	14312849.86	39°24'51.3425"N	80°46'17.2932"W	8077.30	339.056	0.86	0.32	0.80	
15340.00	89.880	342.060	6651.94	8163.11	7633.99	-2916.61	1704932.42	14312940.16	39°24'52.2361"N	80°46'17.6647"W	8172.18	339.090	0.36	-0.32	0.17	
15434.00	89.820	342.200	6652.19	8257.10	7723.46	-2945.46	1704903.58	14313029.59	39°24'53.1211"N	80°46'18.0294"W	8266.04	339.125	0.16	-0.06	0.15	
15529.00	89.910	341.840	6652.41	8352.10	7813.82	-2974.78	1704874.27	14313119.92	39°24'54.0149"N	80°46'18.4001"W	8360.92	339.158	0.39	0.09	-0.38	
15623.00	89.820	341.960	6652.64	8446.10	7903.16	-3003.98	1704845.08	14313209.23	39°24'54.8987"N	80°46'18.7693"W	8454.82	339.188	0.16	-0.10	0.13	
15718.00	89.780	341.580	6652.97	8541.10	7993.40	-3033.70	1704815.37	14313299.42	39°24'55.7912"N	80°46'19.1450"W	8549.72	339.217	0.40	-0.04	-0.40	
15812.00	90.120	342.190	6653.05	8635.10	8082.74	-3062.93	1704786.15	14313388.73	39°24'56.6749"N	80°46'19.5146"W	8643.62	339.246	0.74	0.36	0.65	
15907.00	89.940	341.900	6653.00	8730.10	8173.11	-3092.22	1704756.88	14313479.07	39°24'57.5689"N	80°46'19.8848"W	8738.51	339.276	0.36	-0.19	-0.31	
16001.00	90.250	342.390	6652.84	8824.10	8262.58	-3121.04	1704728.07	14313568.50	39°24'58.4539"N	80°46'20.2491"W	8832.39	339.307	0.62	0.33	0.52	
16095.00	90.370	342.140	6652.34	8918.09	8352.11	-3149.67	1704699.45	14313658.00	39°24'59.3395"N	80°46'20.6111"W	8926.26	339.338	0.30	0.13	-0.27	
16190.00	89.780	342.080	6652.21	9013.09	8442.52	-3178.85	1704670.28	14313748.37	39°25'0.2337"N	80°46'20.9800"W	9021.15	339.367	0.62	-0.62	-0.06	
16284.00	89.850	342.170	6652.51	9107.09	8531.98	-3207.71	1704641.44	14313837.79	39°25'1.1186"N	80°46'21.3448"W	9115.05	339.396	0.12	0.07	0.10	
16379.00	90.150	342.250	6652.51	9202.09	8622.44	-3236.73	1704612.42	14313928.22	39°25'2.0134"N	80°46'21.7117"W	9209.93	339.425	0.33	0.32	0.08	
16473.00	89.910	342.060	6652.47	9296.08	8711.92	-3265.54	1704583.63	14314017.66	39°25'2.8985"N	80°46'22.0758"W	9303.83	339.452	0.33	-0.26	-0.20	
16567.00	89.970	341.870	6652.56	9390.08	8801.30	-3294.64	1704554.54	14314107.00	39°25'3.7826"N	80°46'22.4438"W	9397.74	339.477	0.21	0.06	-0.20	



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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gatrell Unit 1H
Field	Tyler		API	47-095-02737-0000
Facility	Shepherd Pad		Wellbore	Gatrell Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (207 stations) † = interpolated, ‡ = extrapolated station																
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]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
16662.00	89.940	342.060	6652.64	9485.08	8891.63	-3324.05	1704525.14	14314197.30	39°25'4.6761"N	80°46'22.8156"W	9492.65	339.502	0.20	-0.03	0.20	
16756.00	89.850	341.570	6652.81	9579.08	8980.93	-3353.39	1704495.81	14314286.57	39°25'5.5595"N	80°46'23.1866"W	9586.57	339.525	0.53	-0.10	-0.52	
16850.00	89.880	341.730	6653.03	9673.08	9070.15	-3382.98	1704466.23	14314375.75	39°25'6.4420"N	80°46'23.5608"W	9680.51	339.546	0.17	0.03	0.17	
16944.00	90.120	341.820	6653.03	9767.08	9159.44	-3412.38	1704436.85	14314465.00	39°25'7.3252"N	80°46'23.9325"W	9774.44	339.567	0.27	0.26	0.10	
17039.00	89.910	342.670	6653.01	9862.08	9249.91	-3441.35	1704407.89	14314555.44	39°25'8.2201"N	80°46'24.2988"W	9869.33	339.593	0.92	-0.22	0.89	
17133.00	90.000	341.540	6653.08	9956.07	9339.36	-3470.23	1704379.02	14314644.86	39°25'9.1049"N	80°46'24.6639"W	9963.24	339.616	1.21	0.10	-1.20	
17227.00	90.000	342.160	6653.08	10050.07	9428.69	-3499.51	1704349.75	14314734.14	39°25'9.9884"N	80°46'25.0342"W	10057.17	339.637	0.66	0.00	0.66	
17322.00	90.000	342.190	6653.08	10145.07	9519.13	-3528.59	1704320.68	14314824.55	39°25'10.8830"N	80°46'25.4018"W	10152.08	339.661	0.03	0.00	0.03	
17416.00	90.060	341.910	6653.03	10239.07	9608.55	-3557.56	1704291.72	14314913.94	39°25'11.7676"N	80°46'25.7681"W	10246.00	339.683	0.30	0.06	-0.30	
17510.00	89.910	342.000	6653.06	10333.07	9697.93	-3586.68	1704262.61	14315003.28	39°25'12.6516"N	80°46'26.1363"W	10339.92	339.704	0.19	-0.16	0.10	
17604.00	89.970	341.970	6653.15	10427.07	9787.32	-3615.75	1704233.55	14315092.63	39°25'13.5359"N	80°46'26.5038"W	10433.85	339.724	0.07	0.06	-0.03	
17698.00	89.970	341.790	6653.20	10521.07	9876.66	-3644.99	1704204.33	14315181.94	39°25'14.4196"N	80°46'26.8735"W	10527.78	339.743	0.19	0.00	-0.19	
17793.00	90.120	342.150	6653.13	10616.07	9966.99	-3674.39	1704174.94	14315272.24	39°25'15.3131"N	80°46'27.2453"W	10622.71	339.763	0.41	0.16	0.38	
17887.00	90.060	341.990	6652.98	10710.07	10056.43	-3703.33	1704146.01	14315361.63	39°25'16.1977"N	80°46'27.6112"W	10716.64	339.784	0.18	-0.06	-0.17	
17982.00	90.120	342.030	6652.83	10805.07	10146.78	-3732.67	1704116.68	14315451.95	39°25'17.0915"N	80°46'27.9822"W	10811.57	339.803	0.08	0.06	0.04	
18076.00	90.120	342.030	6652.64	10899.07	10236.20	-3761.67	1704087.69	14315541.33	39°25'17.9759"N	80°46'28.3489"W	10905.50	339.822	0.00	0.00	0.00	
18170.00	90.060	342.230	6652.49	10993.06	10325.66	-3790.51	1704058.86	14315630.76	39°25'18.8609"N	80°46'28.7136"W	10999.42	339.842	0.22	-0.06	0.21	
18265.00	89.850	342.060	6652.56	11088.06	10416.08	-3819.64	1704029.74	14315721.15	39°25'19.7553"N	80°46'29.0819"W	11094.34	339.862	0.28	-0.22	-0.18	
18359.00	89.970	342.030	6652.71	11182.06	10505.51	-3848.62	1704000.78	14315810.54	39°25'20.6398"N	80°46'29.4483"W	11188.28	339.880	0.13	-0.13	-0.03	
18453.00	90.030	341.800	6652.71	11276.06	10594.86	-3877.80	1703971.61	14315899.86	39°25'21.5237"N	80°46'29.8172"W	11282.22	339.897	0.25	0.06	-0.24	
18548.00	90.000	341.770	6652.69	11371.06	10685.10	-3907.49	1703941.93	14315990.06	39°25'22.4163"N	80°46'30.1928"W	11377.17	339.913	0.04	-0.03	-0.03	
18642.00	89.910	341.930	6652.76	11465.06	10774.42	-3936.78	1703912.66	14316079.35	39°25'23.2998"N	80°46'30.5631"W	11471.11	339.929	0.20	-0.10	0.17	
18737.00	90.060	342.100	6652.78	11560.06	10864.78	-3966.11	1703883.33	14316169.67	39°25'24.1936"N	80°46'30.9340"W	11566.05	339.946	0.24	0.16	0.18	
18832.00	90.030	341.950	6652.71	11655.06	10955.15	-3995.43	1703854.03	14316260.00	39°25'25.0874"N	80°46'31.3047"W	11660.99	339.963	0.16	-0.03	-0.16	
18927.00	89.940	341.880	6652.73	11750.06	11045.45	-4024.92	1703824.55	14316350.27	39°25'25.9807"N	80°46'31.6776"W	11755.93	339.978	0.12	-0.09	-0.07	
18986.00	90.060	342.050	6652.73	11809.06	11101.55	-4043.18	1703806.29	14316406.35	39°25'26.5356"N	80°46'31.9086"W	11814.90	339.988	0.35	0.20	0.29	
19009.00‡	90.060	342.050	6652.71	11832.06	11123.43	-4050.27	1703799.21	14316428.22	39°25'26.7520"N	80°46'31.9982"W	11837.88	339.992	0.00	0.00	0.00	Projected MD at TD: 19009'



Actual Wellpath Report

Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

HOLE & CASING SECTIONS - Ref Wellbore: Gatrell Unit 1H AWB Ref Wellpath: Gatrell Unit 1H AWP Proj: 19009'										
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]	
20in Conductor	25.50	126.00	100.50	25.50	126.00	0.00	0.00	0.12	-0.16	
17.5in Open Hole	126.00	404.00	278.00	126.00	403.99	0.12	-0.16	1.13	-1.25	
13.375in Casing Surface	25.50	385.00	359.50	25.50	385.00	0.00	0.00	0.95	-1.10	
12.25in Open Hole	404.00	3135.00	2731.00	403.99	3134.61	1.13	-1.25	26.22	-34.32	
9.625in Casing Intermediate	25.50	3115.00	3089.50	25.50	3114.61	0.00	0.00	26.27	-34.11	
8.75in Open Hole	3135.00	5857.00	2722.00	3134.61	5746.79	26.22	-34.32	-699.47	-61.21	
8.5in Open Hole	5857.00	19009.00	13152.00	5746.79	6652.71	-699.47	-61.21	11123.43	-4050.27	
5.5in Casing Production	25.50	19009.00	18983.50	25.50	6652.71	0.00	0.00	11123.43	-4050.27	

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gatrell Unit 1H POE Rev-2	6661.00	-255.71	-312.75	1707535.24	14305053.59	39°23'34.1918"N	80°45'44.7532"W	point
Gatrell Unit 1H BHL Rev-2	6684.00	11085.11	-4042.83	1703806.64	14316389.91	39°25'26.3731"N	80°46'31.9046"W	point
Gatrell Unit 1H LP Rev-2	6684.00	-84.68	-369.00	1707479.01	14305224.55	39°23'35.8837"N	80°45'45.4640"W	point
Gatrell Unit 1H 50' L/R Hard Line	7000.00	5414.70	-2177.79	1705670.94	14310721.75	39°24'30.2832"N	80°46'8.3237"W	rectangle
2D Rectangle 11938.5 x 100.								



Actual Wellpath Report
 Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

WELLPATH COMPOSITION - Ref Wellbore: Gatrell Unit 1H AWB Ref Wellpath: Gatrell Unit 1H AWP Proj: 19009'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	382.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-382')	Gatrell Unit 1H AWB	30/Jul/2021
382.00	3039.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (382')(595'-3039')	Gatrell Unit 1H AWB	30/Jul/2021
3039.00	5794.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3039')(3137'-5794')	Gatrell Unit 1H AWB	09/Aug/2021
5794.00	19009.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5794')(5835'-18986')	Gatrell Unit 1H AWB	09/Aug/2021



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Gatrell Unit 1H AWP Proj: 19009'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gatrell Unit 1H
Field	Tyler	API	47-095-02737-0000
Facility	Shepherd Pad	Wellbore	Gatrell Unit 1H AWB
Slot	Slot C		

COMMENTS
<p>Wellpath general comments API: 47-095-02737-0000 BH Job #: 110974055 Rig: H&P 317 Duration: 8/11/2021-8/14/2021 Gyrodatta MS Gyro <17-1/2"> (100'-382') APS EM <12-1/4"> (382')(595'-3039') APS EM <8-3/4"> (3039')(3137'-5794') BH AT Curve <8-1/2"> (5794')(5835'-18986') Sycamore: 6411' MD Middlesex: 6609' MD Burkett: 6815' MD Tully: 6879' MD Marcellus POE: 7032' MD Projected MD at TD: 19009'</p>