



ANTERO RESOURCES CORPORATION

Area: Tyler County, WV
Field: Tyler
Facility: Starkey Pad
Slot: Slot K

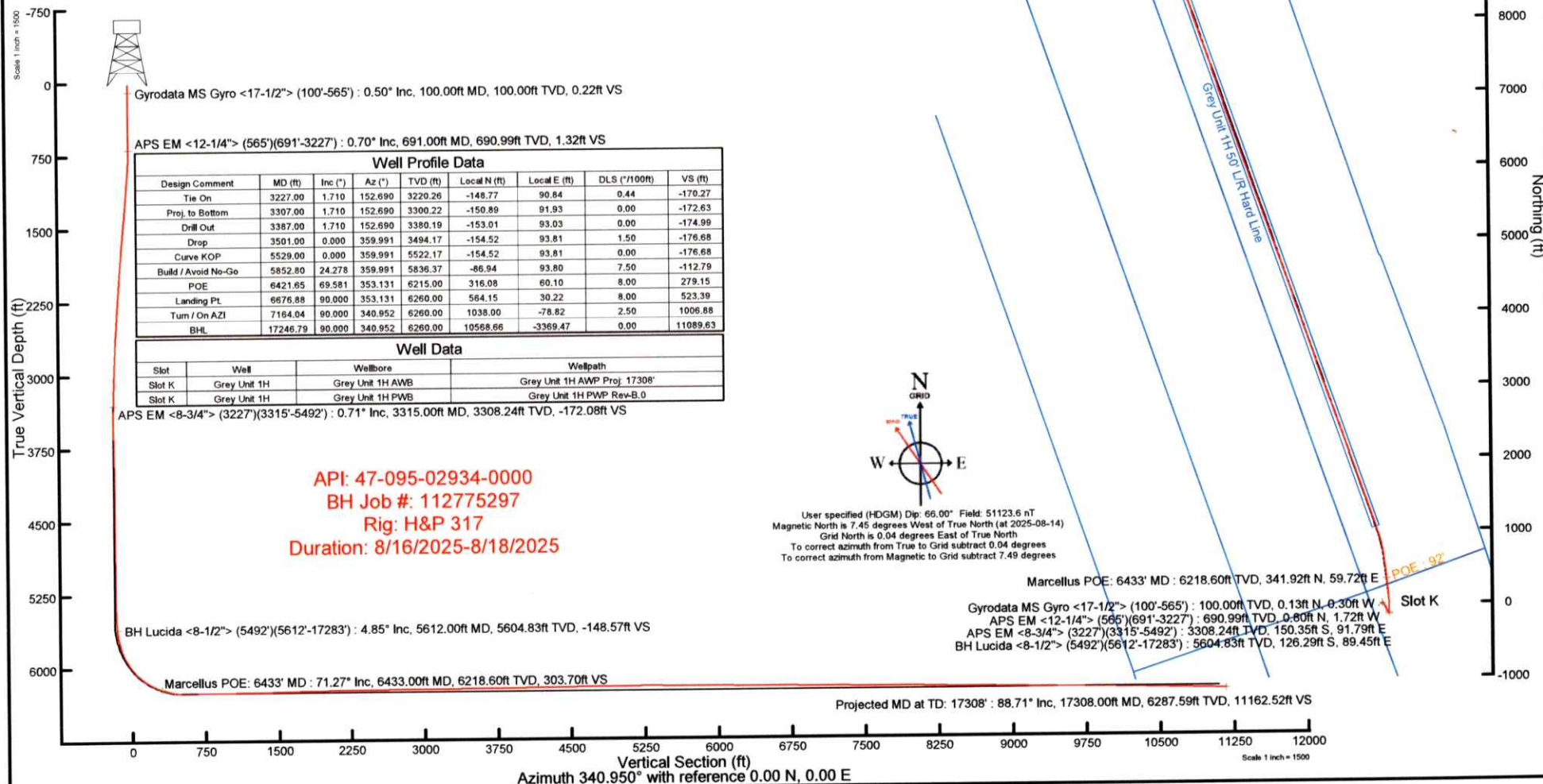
Well: Grey Unit 1H
UWI: 47-095-02934-0000
Wellbore: Grey Unit 1H PWB
Wellpath: Grey Unit 1H PWP Rev-B.0



Plot reference wellpath is Grey Unit 1H PWP Rev-B.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: 1116.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot K): -1091 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edisway on 2025-09-17; Database: WA_MPL_EASTERNUS_Data

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Starkey Pad			1659950.330	14368974.560	39°34'7.0007N	80°55'50.4683W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot K	-315.33	277.04	1660227.260	14368659.360	39°34'3.8822N	80°55'46.9338W
Comment	Gray Unit 1H				25.5ft	
H&P 317 (RKB) to Ground level (At Slot: Slot K)					-1091ft	
Mean Sea Level to Ground level (At Slot: Slot K)					1116.5ft	
H&P 317 (RKB) to Mean Sea Level						





Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet [32067]	Software System	WellArchitect® 7.0
North Reference	Grid	Report Generated By	Edsaryar on 2025-09-17 at 5:17:13 PM
Scale	0.999600	Last Updated	2025-09-17
Convergence at slot	0.04° 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	-315.33	277.04	1660227.26	14368659.36	39°34'3.8822"N	80°55'46.9338"W
Facility Reference Pt			1659950.33	14368974.56	39°34'7.0007"N	80°55'50.4683"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	1116.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1116.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot K)	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	340.950°

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Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (190 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	293.300	0.00	0.00	0.00	0.00	1660227.26	14368659.36	39°34'3.8822"N	80°55'46.9338"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	293.300	25.50	0.00	0.00	0.00	1660227.26	14368659.36	39°34'3.8822"N	80°55'46.9338"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.500	293.300	100.00	0.22	0.13	-0.30	1660226.96	14368659.49	39°34'3.8834"N	80°55'46.9376"W	0.33	293.300	0.67	0.67	0.00	Gyrodatta MS Gyro <17-1/2"> (100'-565')
200.00	0.380	294.580	200.00	0.74	0.44	-1.00	1660226.26	14368659.80	39°34'3.8865"N	80°55'46.9466"W	1.09	293.688	0.12	-0.12	1.28	
300.00	0.140	307.190	299.99	1.07	0.65	-1.40	1660225.86	14368660.01	39°34'3.8886"N	80°55'46.9517"W	1.54	294.939	0.25	-0.24	12.61	
400.00	0.150	338.870	399.99	1.30	0.85	-1.54	1660225.72	14368660.21	39°34'3.8906"N	80°55'46.9535"W	1.76	298.739	0.08	0.01	31.68	
500.00	0.250	302.330	499.99	1.61	1.09	-1.78	1660225.48	14368660.45	39°34'3.8929"N	80°55'46.9565"W	2.08	301.439	0.16	0.10	-36.54	
565.00	0.230	310.730	564.99	1.83	1.25	-1.99	1660225.27	14368660.61	39°34'3.8945"N	80°55'46.9592"W	2.35	302.006	0.06	-0.03	12.92	
691.00	0.700	142.930	690.99	1.32	0.80	-1.72	1660225.54	14368660.16	39°34'3.8901"N	80°55'46.9558"W	1.90	294.847	0.73	0.37	-133.17	APS EM <12-1/4"> (565')(691'-3227')
782.00	2.220	137.750	781.96	-0.83	-0.95	-0.20	1660227.06	14368658.41	39°34'3.8728"N	80°55'46.9364"W	0.97	191.991	1.67	1.67	-5.69	
872.00	4.240	133.020	871.81	-5.38	-4.51	3.40	1660230.66	14368654.85	39°34'3.8376"N	80°55'46.8904"W	5.65	142.973	2.26	2.24	-5.26	
961.00	5.180	133.860	960.51	-11.86	-9.54	8.71	1660235.96	14368649.82	39°34'3.7878"N	80°55'46.8227"W	12.91	137.619	1.06	1.06	0.94	
1051.00	5.360	138.280	1050.13	-19.35	-15.49	14.43	1660241.69	14368643.87	39°34'3.7289"N	80°55'46.7497"W	21.17	137.030	0.49	0.20	4.91	
1145.00	5.300	142.230	1143.72	-27.52	-22.20	20.01	1660247.27	14368637.17	39°34'3.6626"N	80°55'46.6785"W	29.89	137.968	0.40	-0.06	4.20	
1240.00	5.000	138.960	1238.34	-35.51	-28.79	25.42	1660252.67	14368630.58	39°34'3.5974"N	80°55'46.6095"W	38.41	138.561	0.44	-0.32	-3.44	
1335.00	5.050	150.670	1332.98	-43.47	-35.56	30.19	1660257.43	14368623.81	39°34'3.5305"N	80°55'46.5487"W	46.64	139.674	1.08	0.05	12.33	
1429.00	5.220	153.500	1426.60	-51.78	-42.99	34.12	1660261.37	14368616.38	39°34'3.4570"N	80°55'46.4985"W	54.89	141.565	0.32	0.18	3.01	
1524.00	5.340	150.950	1521.20	-60.41	-50.73	38.19	1660265.44	14368608.65	39°34'3.3805"N	80°55'46.4466"W	63.50	143.022	0.28	0.13	-2.68	
1618.00	5.120	152.660	1614.81	-68.87	-58.28	42.24	1660269.49	14368601.11	39°34'3.3059"N	80°55'46.3949"W	71.98	144.061	0.29	-0.23	1.82	
1713.00	5.160	156.230	1709.42	-77.32	-65.95	45.91	1660273.16	14368593.44	39°34'3.2300"N	80°55'46.3482"W	80.36	145.155	0.34	0.04	3.76	
1807.00	4.910	160.510	1803.06	-85.56	-73.61	48.96	1660276.20	14368585.78	39°34'3.1543"N	80°55'46.3094"W	88.41	146.372	0.48	-0.27	4.55	
1902.00	4.560	159.860	1897.74	-93.40	-80.99	51.62	1660278.86	14368578.40	39°34'3.0813"N	80°55'46.2755"W	96.04	147.490	0.37	-0.37	-0.68	
1997.00	4.540	159.540	1992.44	-100.94	-88.06	54.23	1660281.47	14368571.34	39°34'3.0115"N	80°55'46.2422"W	103.42	148.373	0.03	-0.02	-0.34	
2091.00	4.390	158.340	2086.15	-108.25	-94.89	56.86	1660284.10	14368564.51	39°34'2.9439"N	80°55'46.2087"W	110.62	149.069	0.19	-0.16	-1.28	
2186.00	4.120	154.880	2180.89	-115.27	-101.36	59.65	1660286.89	14368558.04	39°34'2.8800"N	80°55'46.1731"W	117.61	149.522	0.39	-0.28	-3.64	
2281.00	3.960	150.870	2275.66	-121.90	-107.31	62.70	1660289.93	14368552.09	39°34'2.8211"N	80°55'46.1343"W	124.28	149.705	0.34	-0.17	-4.22	
2375.00	3.910	149.030	2369.43	-128.23	-112.89	65.92	1660293.16	14368546.51	39°34'2.7659"N	80°55'46.0931"W	130.73	149.717	0.14	-0.05	-1.96	
2470.00	3.660	145.540	2464.23	-134.32	-118.17	69.31	1660296.54	14368541.24	39°34'2.7137"N	80°55'46.0500"W	137.00	149.609	0.36	-0.26	-3.67	
2564.00	3.530	143.810	2558.04	-139.98	-122.98	72.71	1660299.94	14368536.43	39°34'2.6662"N	80°55'46.0065"W	142.87	149.406	0.18	-0.14	-1.84	
2659.00	3.260	143.110	2652.87	-145.35	-127.50	76.06	1660303.29	14368531.91	39°34'2.6215"N	80°55'45.9638"W	148.47	149.182	0.29	-0.28	-0.74	



Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (190 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
2754.00	3.140	143.580	2747.73	-150.40	-131.76	79.23	1660306.46	14368527.66	39°34'2.5794"N	80°55'45.9234"W	153.74	148.981	0.13	-0.13	0.49	
2848.00	2.930	139.660	2841.59	-155.10	-135.66	82.31	1660309.54	14368523.76	39°34'2.5408"N	80°55'45.8841"W	158.68	148.753	0.31	-0.22	-4.17	
2943.00	2.920	139.120	2936.47	-159.60	-139.34	85.47	1660312.69	14368520.08	39°34'2.5044"N	80°55'45.8438"W	163.46	148.476	0.03	-0.01	-0.57	
3038.00	2.210	149.720	3031.38	-163.65	-142.75	87.97	1660315.20	14368516.67	39°34'2.4707"N	80°55'45.8119"W	167.68	148.355	0.90	-0.75	11.16	
3132.00	2.090	157.880	3125.31	-167.14	-145.90	89.53	1660316.76	14368513.51	39°34'2.4395"N	80°55'45.7920"W	171.18	148.465	0.35	-0.13	8.68	
3227.00	1.710	152.690	3220.26	-170.27	-148.77	90.84	1660318.06	14368510.65	39°34'2.4112"N	80°55'45.7754"W	174.31	148.592	0.44	-0.40	-5.46	
3315.00	0.710	140.000	3308.24	-172.08	-150.35	91.79	1660319.01	14368509.07	39°34'2.3955"N	80°55'45.7632"W	176.16	148.596	1.17	-1.14	-14.42	APS EM <8-3/4"> (3227')(3315'-5492')
3410.00	0.650	148.330	3403.23	-173.15	-151.26	92.45	1660319.67	14368508.16	39°34'2.3865"N	80°55'45.7548"W	177.28	148.567	0.12	-0.06	8.77	
3505.00	0.600	149.890	3498.22	-174.17	-152.15	92.98	1660320.21	14368507.27	39°34'2.3777"N	80°55'45.7480"W	178.31	148.570	0.06	-0.05	1.64	
3599.00	1.200	19.630	3592.22	-173.88	-151.65	93.56	1660320.78	14368507.77	39°34'2.3827"N	80°55'45.7406"W	178.19	148.327	1.76	0.64	-138.57	
3694.00	1.300	18.140	3687.20	-172.25	-149.69	94.23	1660321.45	14368509.73	39°34'2.4020"N	80°55'45.7321"W	176.88	147.809	0.11	0.11	-1.57	
3788.00	1.190	7.360	3781.17	-170.52	-147.71	94.69	1660321.91	14368511.71	39°34'2.4216"N	80°55'45.7262"W	175.45	147.338	0.27	-0.12	-11.47	
3883.00	1.170	6.610	3876.15	-168.77	-145.77	94.93	1660322.15	14368513.65	39°34'2.4408"N	80°55'45.7231"W	173.95	146.927	0.03	-0.02	-0.79	
3978.00	1.040	6.930	3971.14	-167.12	-143.95	95.14	1660322.36	14368515.47	39°34'2.4588"N	80°55'45.7204"W	172.55	146.537	0.14	-0.14	0.34	
4072.00	0.100	297.050	4065.13	-166.29	-143.06	95.17	1660322.39	14368516.36	39°34'2.4675"N	80°55'45.7200"W	171.83	146.366	1.07	-1.00	-74.34	
4167.00	0.230	260.890	4160.13	-166.20	-143.05	94.91	1660322.13	14368516.36	39°34'2.4676"N	80°55'45.7233"W	171.67	146.438	0.17	0.14	-38.06	
4262.00	0.170	300.620	4255.13	-166.06	-143.01	94.60	1660321.82	14368516.40	39°34'2.4680"N	80°55'45.7273"W	171.47	146.516	0.15	-0.06	41.82	
4356.00	0.170	329.260	4349.13	-165.81	-142.82	94.41	1660321.63	14368516.60	39°34'2.4699"N	80°55'45.7297"W	171.20	146.535	0.09	0.00	30.47	
4451.00	0.240	319.440	4444.13	-165.49	-142.55	94.21	1660321.43	14368516.87	39°34'2.4726"N	80°55'45.7323"W	170.87	146.541	0.08	0.07	-10.34	
4545.00	0.210	305.310	4538.13	-165.17	-142.30	93.94	1660321.16	14368517.12	39°34'2.4751"N	80°55'45.7357"W	170.51	146.570	0.07	-0.03	-15.03	
4640.00	0.330	327.280	4633.13	-164.76	-141.97	93.65	1660320.87	14368517.45	39°34'2.4783"N	80°55'45.7394"W	170.07	146.590	0.16	0.13	23.13	
4735.00	0.500	324.390	4728.12	-164.10	-141.40	93.26	1660320.48	14368518.01	39°34'2.4839"N	80°55'45.7444"W	169.39	146.594	0.18	0.18	-3.04	
4829.00	0.370	330.600	4822.12	-163.41	-140.80	92.87	1660320.09	14368518.61	39°34'2.4899"N	80°55'45.7493"W	168.67	146.592	0.15	-0.14	6.61	
4924.00	0.570	342.990	4917.12	-162.63	-140.09	92.58	1660319.80	14368519.33	39°34'2.4970"N	80°55'45.7530"W	167.91	146.539	0.23	0.21	13.04	
5019.00	0.410	328.320	5012.11	-161.83	-139.34	92.27	1660319.49	14368520.07	39°34'2.5043"N	80°55'45.7570"W	167.12	146.490	0.21	-0.17	-15.44	
5113.00	0.600	335.680	5106.11	-161.01	-138.61	91.89	1660319.11	14368520.81	39°34'2.5116"N	80°55'45.7619"W	166.30	146.459	0.21	0.20	7.83	
5208.00	0.540	347.030	5201.11	-160.07	-137.72	91.58	1660318.80	14368521.70	39°34'2.5203"N	80°55'45.7658"W	165.39	146.377	0.13	-0.06	11.95	
5303.00	0.680	331.850	5296.10	-159.07	-136.79	91.21	1660318.44	14368522.63	39°34'2.5296"N	80°55'45.7704"W	164.41	146.303	0.22	0.15	-15.98	
5397.00	0.700	325.790	5390.09	-157.96	-135.82	90.63	1660317.85	14368523.59	39°34'2.5391"N	80°55'45.7779"W	163.28	146.286	0.08	0.02	-6.45	
5492.00	2.160	348.910	5485.06	-155.63	-133.58	89.96	1660317.18	14368525.83	39°34'2.5612"N	80°55'45.7864"W	161.05	146.043	1.62	1.54	24.34	

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5612.00	4.850	359.160	5604.83	-148.57	-126.29	89.45	1660316.67	14368533.12	39°34'2.6333"N	80°55'45.7929"W	154.76	144.691	2.29	2.24	8.54	BH Lucida <8-1/2"> (5492')(5612'-17283')
5706.00	11.540	359.790	5697.82	-135.88	-112.90	89.36	1660316.58	14368546.51	39°34'2.7657"N	80°55'45.7939"W	143.98	141.640	7.12	7.12	0.67	
5801.00	18.280	3.290	5789.57	-113.08	-88.49	90.18	1660317.40	14368570.90	39°34'3.0069"N	80°55'45.7832"W	126.34	134.460	7.15	7.09	3.68	
5896.00	26.210	359.350	5877.43	-79.34	-52.58	90.79	1660318.02	14368606.80	39°34'3.3618"N	80°55'45.7749"W	104.92	120.077	8.49	8.35	-4.15	
5990.00	34.140	358.180	5958.63	-34.38	-5.39	89.72	1660316.94	14368653.98	39°34'3.8282"N	80°55'45.7882"W	89.88	93.436	8.46	8.44	-1.24	
6054.00†	39.642	357.076	6009.79	2.42	32.98	88.11	1660315.33	14368692.33	39°34'4.2075"N	80°55'45.8084"W	94.08	69.477	8.66	8.60	-1.72	Sycamore: 6054' MD
6085.00	42.310	356.630	6033.20	21.97	53.28	86.99	1660314.21	14368712.62	39°34'4.4081"N	80°55'45.8225"W	102.01	58.514	8.66	8.61	-1.44	
6179.00	50.650	355.230	6097.87	87.77	121.20	82.10	1660309.32	14368780.51	39°34'5.0794"N	80°55'45.8843"W	146.39	34.113	8.94	8.87	-1.49	
6196.00†	52.122	354.983	6108.48	100.65	134.44	80.96	1660308.19	14368793.74	39°34'5.2102"N	80°55'45.8986"W	156.93	31.059	8.73	8.66	-1.45	Middlesex: 6196' MD
6274.00	58.880	353.960	6152.63	163.12	198.38	74.75	1660301.98	14368857.66	39°34'5.8422"N	80°55'45.9773"W	211.99	20.647	8.73	8.66	-1.31	
6361.00†	66.331	354.072	6192.64	238.31	275.15	66.71	1660293.94	14368934.40	39°34'6.6010"N	80°55'46.0792"W	283.12	13.628	8.56	8.56	0.13	Burkett: 6361' MD
6368.00	66.930	354.080	6195.41	244.56	281.54	66.04	1660293.28	14368940.79	39°34'6.6642"N	80°55'46.0876"W	289.18	13.202	8.56	8.56	0.12	
6433.00†	71.268	353.955	6218.60	303.70	341.92	59.72	1660286.95	14369001.14	39°34'7.2610"N	80°55'46.1678"W	347.09	9.907	6.68	6.67	-0.19	Marcellus POE: 6433' MD
6463.00	73.270	353.900	6227.73	331.54	370.33	56.69	1660283.93	14369029.54	39°34'7.5418"N	80°55'46.2062"W	374.64	8.704	6.68	6.67	-0.18	
6557.00	79.200	353.620	6250.09	420.53	461.05	46.77	1660274.01	14369120.22	39°34'8.4385"N	80°55'46.3320"W	463.41	5.793	6.32	6.31	-0.30	
6652.00	87.320	352.750	6261.23	512.66	554.64	35.58	1660262.83	14369213.78	39°34'9.3636"N	80°55'46.4739"W	555.78	3.670	8.60	8.55	-0.92	
6747.00	91.790	354.100	6261.97	605.38	648.99	24.71	1660251.96	14369308.09	39°34'10.2961"N	80°55'46.6118"W	649.46	2.180	4.92	4.71	1.42	
6841.00	90.770	348.160	6259.87	697.84	741.80	10.22	1660237.48	14369400.86	39°34'11.2135"N	80°55'46.7959"W	741.87	0.789	6.41	-1.09	-6.32	
6936.00	90.710	345.180	6258.64	792.35	834.22	-11.68	1660215.59	14369493.25	39°34'12.1271"N	80°55'47.0746"W	834.30	359.198	3.14	-0.06	-3.14	
7030.00	90.620	343.130	6257.55	886.19	924.64	-37.34	1660189.93	14369583.63	39°34'13.0209"N	80°55'47.4014"W	925.39	357.687	2.18	-0.10	-2.18	
7125.00	90.950	341.780	6256.25	981.15	1015.21	-65.98	1660161.31	14369674.16	39°34'13.9162"N	80°55'47.7661"W	1017.35	356.282	1.46	0.35	-1.42	
7220.00	90.740	340.960	6254.84	1076.13	1105.22	-96.32	1660130.98	14369764.14	39°34'14.8061"N	80°55'48.1527"W	1109.41	355.019	0.89	-0.22	-0.86	
7314.00	90.740	340.760	6253.63	1170.12	1194.02	-127.14	1660100.17	14369852.90	39°34'15.6839"N	80°55'48.5454"W	1200.77	353.922	0.21	0.00	-0.21	
7409.00	90.740	340.930	6252.40	1265.12	1283.75	-158.31	1660069.02	14369942.60	39°34'16.5710"N	80°55'48.9425"W	1293.47	352.970	0.18	0.00	0.18	
7504.00	90.800	340.880	6251.13	1360.11	1373.52	-189.38	1660037.95	14370032.32	39°34'17.4584"N	80°55'49.3385"W	1386.51	352.149	0.08	0.06	-0.05	
7598.00	90.800	341.020	6249.81	1454.10	1462.36	-220.06	1660007.29	14370121.13	39°34'18.3367"N	80°55'49.7293"W	1478.82	351.442	0.15	0.00	0.15	
7693.00	90.770	340.790	6248.51	1549.09	1552.12	-251.14	1659976.23	14370210.86	39°34'19.2241"N	80°55'50.1253"W	1572.31	350.809	0.24	-0.03	-0.24	
7788.00	91.510	341.020	6246.62	1644.07	1641.88	-282.21	1659945.17	14370300.58	39°34'20.1114"N	80°55'50.5212"W	1665.95	350.247	0.82	0.78	0.24	
7882.00	90.920	340.870	6244.63	1738.05	1730.71	-312.89	1659914.50	14370389.37	39°34'20.9896"N	80°55'50.9121"W	1758.76	349.752	0.65	-0.63	-0.16	
7977.00	90.950	340.840	6243.08	1833.03	1820.44	-344.04	1659883.36	14370479.07	39°34'21.8767"N	80°55'51.3090"W	1852.66	349.298	0.04	0.03	-0.03	



Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (190 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
8071.00	90.990	340.940	6241.49	1927.02	1909.25	-374.81	1659852.60	14370567.84	39°34'22.7546"N	80°55'51.7011"W	1945.69	348.893	0.11	0.04	0.11	
8166.00	91.020	340.300	6239.82	2022.00	1998.85	-406.33	1659821.09	14370657.41	39°34'23.6404"N	80°55'52.1027"W	2039.73	348.509	0.67	0.03	-0.67	
8261.00	90.490	339.990	6238.57	2116.99	2088.19	-438.59	1659788.84	14370746.72	39°34'24.5236"N	80°55'52.5139"W	2133.76	348.138	0.65	-0.56	-0.33	
8355.00	89.970	339.210	6238.19	2210.96	2176.30	-471.36	1659756.09	14370834.78	39°34'25.3946"N	80°55'52.9314"W	2226.76	347.779	1.00	-0.55	-0.83	
8450.00	90.030	340.550	6238.19	2305.94	2265.50	-504.04	1659723.43	14370923.95	39°34'26.2765"N	80°55'53.3479"W	2320.89	347.457	1.41	0.06	1.41	
8545.00	90.830	340.240	6237.48	2400.93	2354.99	-535.91	1659691.57	14371013.40	39°34'27.1612"N	80°55'53.7540"W	2415.19	347.180	0.90	0.84	-0.33	
8639.00	90.370	339.490	6236.50	2494.91	2443.24	-568.27	1659659.22	14371101.62	39°34'28.0336"N	80°55'54.1664"W	2508.45	346.907	0.94	-0.49	-0.80	
8734.00	90.710	340.840	6235.60	2589.89	2532.59	-600.50	1659627.00	14371190.94	39°34'28.9170"N	80°55'54.5771"W	2602.81	346.661	1.47	0.36	1.42	
8828.00	90.340	341.020	6234.74	2683.89	2621.43	-631.21	1659596.30	14371279.74	39°34'29.7952"N	80°55'54.9685"W	2696.36	346.462	0.44	-0.39	0.19	
8923.00	90.490	341.060	6234.05	2778.89	2711.28	-662.07	1659565.45	14371369.55	39°34'30.6834"N	80°55'55.3618"W	2790.94	346.277	0.16	0.16	0.04	
9018.00	90.490	340.860	6233.24	2873.88	2801.07	-693.06	1659534.47	14371459.31	39°34'31.5711"N	80°55'55.7567"W	2885.54	346.103	0.21	0.00	-0.21	
9112.00	90.430	341.230	6232.48	2967.88	2889.97	-723.60	1659503.95	14371548.17	39°34'32.4500"N	80°55'56.1457"W	2979.19	345.943	0.40	-0.06	0.39	
9207.00	90.340	340.930	6231.84	3062.88	2979.84	-754.40	1659473.16	14371638.00	39°34'33.3383"N	80°55'56.5382"W	3073.85	345.793	0.33	-0.09	-0.32	
9301.00	90.280	341.070	6231.34	3156.88	3068.72	-785.00	1659442.57	14371726.84	39°34'34.2170"N	80°55'56.9282"W	3167.53	345.651	0.16	-0.06	0.15	
9396.00	90.370	341.010	6230.80	3251.87	3158.56	-815.87	1659411.72	14371816.65	39°34'35.1052"N	80°55'57.3215"W	3262.23	345.517	0.11	0.09	-0.06	
9491.00	90.280	340.990	6230.26	3346.87	3248.38	-846.80	1659380.80	14371906.44	39°34'35.9931"N	80°55'57.7156"W	3356.94	345.389	0.10	-0.09	-0.02	
9585.00	90.430	341.000	6229.68	3440.87	3337.26	-877.41	1659350.20	14371995.28	39°34'36.8717"N	80°55'58.1057"W	3450.67	345.270	0.16	0.16	0.01	
9680.00	90.280	341.040	6229.09	3535.87	3427.09	-908.30	1659319.32	14372085.08	39°34'37.7598"N	80°55'58.4994"W	3545.42	345.156	0.16	-0.16	0.04	
9774.00	90.490	340.740	6228.46	3629.87	3515.91	-939.08	1659288.56	14372173.86	39°34'38.6378"N	80°55'58.8916"W	3639.16	345.046	0.39	0.22	-0.32	
9869.00	90.460	341.120	6227.67	3724.86	3605.69	-970.12	1659257.53	14372263.60	39°34'39.5254"N	80°55'59.2871"W	3733.92	344.941	0.40	-0.03	0.40	
9963.00	90.400	340.420	6226.96	3818.86	3694.44	-1001.07	1659226.59	14372352.32	39°34'40.4028"N	80°55'59.6816"W	3827.67	344.839	0.75	-0.06	-0.74	
10058.00	90.430	340.840	6226.27	3913.86	3784.07	-1032.58	1659195.09	14372441.91	39°34'41.2887"N	80°56'00.0832"W	3922.42	344.737	0.44	0.03	0.44	
10153.00	90.580	341.280	6225.44	4008.85	3873.92	-1063.42	1659164.27	14372531.72	39°34'42.1770"N	80°56'00.4761"W	4017.22	344.650	0.49	0.16	0.46	
10247.00	90.490	340.980	6224.56	4102.85	3962.86	-1093.82	1659133.88	14372620.63	39°34'43.0563"N	80°56'00.8635"W	4111.05	344.570	0.33	-0.10	-0.32	
10342.00	90.620	341.290	6223.64	4197.84	4052.75	-1124.53	1659103.18	14372710.49	39°34'43.9449"N	80°56'01.2549"W	4205.88	344.492	0.35	0.14	0.33	
10436.00	90.550	341.000	6222.68	4291.84	4141.71	-1154.91	1659072.82	14372799.40	39°34'44.8243"N	80°56'01.6421"W	4299.71	344.419	0.32	-0.07	-0.31	
10531.00	90.620	341.090	6221.71	4386.83	4231.55	-1185.77	1659041.97	14372889.21	39°34'45.7124"N	80°56'02.0353"W	4394.55	344.346	0.12	0.07	0.09	
10625.00	90.520	340.640	6220.77	4480.83	4320.35	-1216.58	1659011.17	14372977.98	39°34'46.5903"N	80°56'02.4280"W	4488.37	344.273	0.49	-0.11	-0.48	
10720.00	90.650	341.060	6219.80	4575.82	4410.09	-1247.74	1658980.02	14373067.68	39°34'47.4774"N	80°56'02.8251"W	4583.20	344.202	0.46	0.14	0.44	
10815.00	90.400	339.570	6218.93	4670.81	4499.53	-1279.74	1658948.04	14373157.08	39°34'48.3616"N	80°56'03.2329"W	4677.98	344.123	1.59	-0.26	-1.57	

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Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (190 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
10909.00	90.620	341.060	6218.10	4764.80	4588.03	-1311.40	1658916.39	14373245.55	39°34'49.2365"N	80°56'3.6365"W	4771.77	344.048	1.60	0.23	1.59	
11004.00	90.800	341.060	6216.92	4859.79	4677.88	-1342.23	1658885.57	14373335.36	39°34'50.1248"N	80°56'4.0294"W	4866.64	343.990	0.19	0.19	0.00	
11098.00	90.520	340.910	6215.84	4953.78	4766.75	-1372.86	1658854.96	14373424.19	39°34'51.0033"N	80°56'4.4197"W	4960.50	343.933	0.34	-0.30	-0.16	
11193.00	89.750	340.990	6215.61	5048.78	4856.54	-1403.86	1658823.96	14373513.95	39°34'51.8910"N	80°56'4.8149"W	5055.38	343.877	0.81	-0.81	0.08	
11287.00	90.430	340.970	6215.47	5142.78	4945.41	-1434.50	1658793.34	14373602.78	39°34'52.7695"N	80°56'5.2053"W	5149.26	343.824	0.72	0.72	-0.02	
11382.00	89.940	341.050	6215.16	5237.78	5035.24	-1465.41	1658762.44	14373692.58	39°34'53.6575"N	80°56'5.5993"W	5244.14	343.773	0.52	-0.52	0.08	
11477.00	90.310	341.460	6214.95	5332.78	5125.20	-1495.94	1658731.92	14373782.50	39°34'54.5468"N	80°56'5.9884"W	5339.05	343.729	0.58	0.39	0.43	
11571.00	89.510	340.460	6215.10	5426.77	5214.05	-1526.60	1658701.27	14373871.32	39°34'55.4252"N	80°56'6.3792"W	5432.94	343.681	1.36	-0.85	-1.06	
11666.00	89.720	339.660	6215.74	5521.76	5303.36	-1559.00	1658668.88	14373960.59	39°34'56.3080"N	80°56'6.7921"W	5527.75	343.619	0.87	0.22	-0.84	
11760.00	88.770	340.830	6216.98	5615.74	5391.81	-1590.77	1658637.13	14374049.01	39°34'57.1825"N	80°56'7.1971"W	5621.58	343.562	1.60	-1.01	1.24	
11855.00	89.630	340.150	6218.30	5710.73	5481.35	-1622.49	1658605.42	14374138.51	39°34'58.0676"N	80°56'7.6014"W	5716.44	343.511	1.15	0.91	-0.72	
11949.00	89.630	338.750	6218.91	5804.69	5569.36	-1655.49	1658572.44	14374226.49	39°34'58.9377"N	80°56'8.0220"W	5810.20	343.445	1.49	0.00	-1.49	
12044.00	89.780	340.140	6219.40	5899.66	5658.31	-1688.84	1658539.10	14374315.40	39°34'59.8171"N	80°56'8.4472"W	5904.97	343.381	1.47	0.16	1.46	
12139.00	89.880	340.950	6219.68	5994.65	5747.89	-1720.48	1658507.47	14374404.94	39°35'0.7026"N	80°56'8.8505"W	5999.86	343.336	0.86	0.11	0.85	
12233.00	89.850	340.860	6219.90	6088.65	5836.71	-1751.23	1658476.73	14374493.73	39°35'1.5807"N	80°56'9.2424"W	6093.77	343.299	0.10	-0.03	-0.10	
12328.00	89.630	341.260	6220.33	6183.65	5926.57	-1782.07	1658445.91	14374583.55	39°35'2.4690"N	80°56'9.6354"W	6188.70	343.264	0.48	-0.23	0.42	
12423.00	89.630	340.940	6220.95	6278.65	6016.45	-1812.84	1658415.15	14374673.39	39°35'3.3574"N	80°56'10.0276"W	6283.63	343.232	0.34	0.00	-0.34	
12517.00	89.350	340.740	6221.78	6372.64	6105.24	-1843.69	1658384.31	14374762.14	39°35'4.2352"N	80°56'10.4209"W	6377.55	343.196	0.37	-0.30	-0.21	
12612.00	89.690	340.630	6222.58	6467.64	6194.88	-1875.11	1658352.90	14374851.76	39°35'5.1214"N	80°56'10.8214"W	6472.45	343.160	0.38	0.36	-0.12	
12707.00	89.570	340.590	6223.19	6562.64	6284.49	-1906.65	1658321.38	14374941.33	39°35'6.0073"N	80°56'11.2234"W	6567.36	343.123	0.13	-0.13	-0.04	
12801.00	89.450	339.780	6224.00	6656.62	6372.93	-1938.51	1658289.53	14375029.73	39°35'6.8815"N	80°56'11.6295"W	6661.23	343.081	0.87	-0.13	-0.86	
12896.00	89.660	340.500	6224.74	6751.61	6462.27	-1970.79	1658257.27	14375119.04	39°35'7.7647"N	80°56'12.0409"W	6756.10	343.040	0.79	0.22	0.76	
12991.00	89.320	340.930	6225.58	6846.61	6551.94	-2002.16	1658225.90	14375208.67	39°35'8.6511"N	80°56'12.4409"W	6851.02	343.008	0.58	-0.36	0.45	
13085.00	89.600	340.990	6226.47	6940.60	6640.79	-2032.82	1658195.25	14375297.48	39°35'9.5295"N	80°56'12.8317"W	6944.96	342.980	0.30	0.30	0.06	
13180.00	89.510	341.160	6227.20	7035.60	6730.65	-2063.63	1658164.45	14375387.31	39°35'10.4178"N	80°56'13.2244"W	7039.91	342.954	0.20	-0.09	0.18	
13274.00	89.480	342.290	6228.03	7129.58	6819.91	-2093.11	1658134.99	14375476.53	39°35'11.3002"N	80°56'13.6001"W	7133.88	342.938	1.20	-0.03	1.20	
13369.00	89.450	342.040	6228.92	7224.56	6910.34	-2122.20	1658105.91	14375566.92	39°35'12.1941"N	80°56'13.9709"W	7228.87	342.928	0.27	-0.03	-0.26	
13464.00	89.450	342.270	6229.83	7319.53	7000.76	-2151.31	1658076.81	14375657.31	39°35'13.0880"N	80°56'14.3419"W	7323.85	342.918	0.24	0.00	0.24	
13558.00	89.690	342.100	6230.54	7413.51	7090.25	-2180.07	1658048.06	14375746.76	39°35'13.9726"N	80°56'14.7085"W	7417.84	342.909	0.31	0.26	-0.18	
13652.00	89.750	341.970	6231.00	7507.49	7179.67	-2209.06	1658019.08	14375836.14	39°35'14.8566"N	80°56'15.0780"W	7511.83	342.898	0.15	0.06	-0.14	



Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (190 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
13747.00	89.880	342.360	6231.30	7602.47	7270.10	-2238.16	1657990.00	14375926.54	39°35'15.7505"N	80°56'15.4488"W	7606.82	342.889	0.43	0.14	0.41	
13842.00	89.690	342.020	6231.66	7697.45	7360.55	-2267.22	1657960.95	14376016.95	39°35'16.6446"N	80°56'15.8191"W	7701.81	342.880	0.41	-0.20	-0.36	
13936.00	89.170	341.640	6232.60	7791.43	7449.86	-2296.53	1657931.65	14376106.22	39°35'17.5275"N	80°56'16.1927"W	7795.79	342.867	0.69	-0.55	-0.40	
14031.00	89.480	341.350	6233.71	7886.42	7539.94	-2326.68	1657901.52	14376196.27	39°35'18.4180"N	80°56'16.5770"W	7890.76	342.851	0.45	0.33	-0.31	
14126.00	89.690	340.940	6234.40	7981.41	7629.84	-2357.38	1657870.83	14376286.13	39°35'19.3067"N	80°56'16.9684"W	7985.72	342.831	0.48	0.22	-0.43	
14220.00	89.660	339.570	6234.94	8075.40	7718.31	-2389.13	1657839.09	14376374.57	39°35'20.1813"N	80°56'17.3732"W	8079.62	342.801	1.46	-0.03	-1.46	
14315.00	87.880	338.010	6236.97	8170.31	7806.85	-2423.49	1657804.74	14376463.07	39°35'21.0566"N	80°56'17.8113"W	8174.36	342.754	2.49	-1.87	-1.64	
14409.00	89.660	342.100	6238.99	8264.25	7895.16	-2455.54	1657772.70	14376551.35	39°35'21.9297"N	80°56'18.2199"W	8268.21	342.723	4.74	1.89	4.35	
14504.00	87.810	341.720	6241.09	8359.21	7985.44	-2485.03	1657743.23	14376641.60	39°35'22.8221"N	80°56'18.5958"W	8363.17	342.714	1.99	-1.95	-0.40	
14598.00	89.690	342.310	6243.14	8453.17	8074.82	-2514.05	1657714.22	14376730.94	39°35'23.7057"N	80°56'18.9656"W	8457.14	342.706	2.10	2.00	0.63	
14693.00	89.820	341.900	6243.55	8548.15	8165.23	-2543.24	1657685.04	14376821.31	39°35'24.5993"N	80°56'19.3377"W	8552.13	342.700	0.45	0.14	-0.43	
14788.00	89.970	341.180	6243.72	8643.14	8255.34	-2573.32	1657654.97	14376911.38	39°35'25.4901"N	80°56'19.7212"W	8647.11	342.687	0.77	0.16	-0.76	
14882.00	89.260	342.180	6244.35	8737.13	8344.57	-2602.86	1657625.44	14377000.58	39°35'26.3722"N	80°56'20.0978"W	8741.10	342.676	1.30	-0.76	1.06	
14977.00	89.720	341.640	6245.20	8832.11	8434.87	-2632.36	1657595.96	14377090.84	39°35'27.2649"N	80°56'20.4738"W	8836.08	342.668	0.75	0.48	-0.57	
15072.00	88.770	342.140	6246.45	8927.09	8525.15	-2661.89	1657566.44	14377181.09	39°35'28.1574"N	80°56'20.8501"W	8931.06	342.660	1.13	-1.00	0.53	
15166.00	89.200	342.370	6248.12	9021.05	8614.67	-2690.53	1657537.81	14377270.57	39°35'29.0422"N	80°56'21.2153"W	9025.05	342.655	0.52	0.46	0.24	
15261.00	88.980	340.730	6249.62	9116.03	8704.77	-2720.59	1657507.76	14377360.64	39°35'29.9329"N	80°56'21.5985"W	9120.01	342.644	1.74	-0.23	-1.73	
15356.00	88.890	341.310	6251.39	9211.01	8794.59	-2751.49	1657476.88	14377450.42	39°35'30.8208"N	80°56'21.9923"W	9214.96	342.627	0.62	-0.09	0.61	
15450.00	89.170	341.640	6252.98	9304.99	8883.71	-2781.35	1657447.03	14377539.50	39°35'31.7018"N	80°56'22.3730"W	9308.93	342.615	0.46	0.30	0.35	
15545.00	89.020	339.180	6254.48	9399.97	8973.19	-2813.19	1657415.20	14377628.95	39°35'32.5864"N	80°56'22.7790"W	9403.84	342.593	2.59	-0.16	-2.59	
15639.00	89.080	340.730	6256.04	9493.94	9061.48	-2845.41	1657383.00	14377717.20	39°35'33.4592"N	80°56'23.1897"W	9497.72	342.567	1.65	0.06	1.65	
15734.00	89.020	339.950	6257.62	9588.92	9150.93	-2877.36	1657351.05	14377806.61	39°35'34.3434"N	80°56'23.5972"W	9592.64	342.545	0.82	-0.06	-0.82	
15829.00	88.980	339.730	6259.27	9683.89	9240.10	-2910.10	1657318.33	14377895.75	39°35'35.2249"N	80°56'24.0146"W	9687.52	342.519	0.24	-0.04	-0.23	
15923.00	88.950	340.530	6260.97	9777.86	9328.48	-2942.04	1657286.40	14377984.10	39°35'36.0987"N	80°56'24.4219"W	9781.42	342.496	0.85	-0.03	0.85	
16018.00	89.380	340.590	6262.36	9872.85	9418.06	-2973.66	1657254.80	14378073.64	39°35'36.9842"N	80°56'24.8249"W	9876.36	342.477	0.46	0.45	0.06	
16112.00	89.080	340.550	6263.62	9966.84	9506.70	-3004.92	1657223.54	14378162.24	39°35'37.8604"N	80°56'25.2236"W	9970.30	342.459	0.32	-0.32	-0.04	
16207.00	88.920	339.770	6265.28	10061.82	9596.04	-3037.16	1657191.32	14378251.55	39°35'38.7437"N	80°56'25.6346"W	10065.21	342.437	0.84	-0.17	-0.82	
16302.00	88.920	339.830	6267.07	10156.78	9685.18	-3069.96	1657158.53	14378340.66	39°35'39.6249"N	80°56'26.0528"W	10160.09	342.413	0.06	0.00	0.06	
16396.00	89.080	341.030	6268.71	10250.76	9773.74	-3101.44	1657127.07	14378429.18	39°35'40.5003"N	80°56'26.4542"W	10254.02	342.395	1.29	0.17	1.28	
16491.00	89.140	341.340	6270.18	10345.75	9863.65	-3132.07	1657096.44	14378519.05	39°35'41.3891"N	80°56'26.8448"W	10348.99	342.383	0.33	0.06	0.33	



Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

WELLPATH DATA (190 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
16586.00	88.770	341.080	6271.92	10440.73	9953.57	-3162.67	1657065.86	14378608.94	39°35'42.2780"N	80°56'27.2349"W	10443.95	342.373	0.48	-0.39	-0.27	
16680.00	88.610	338.810	6274.07	10534.69	10041.85	-3194.89	1657033.65	14378697.17	39°35'43.1506"N	80°56'27.6458"W	10537.84	342.351	2.42	-0.17	-2.41	
16775.00	88.830	341.200	6276.19	10629.64	10131.09	-3227.37	1657001.19	14378786.38	39°35'44.0329"N	80°56'28.0598"W	10632.73	342.330	2.53	0.23	2.52	
16870.00	88.830	340.940	6278.13	10724.62	10220.93	-3258.18	1656970.39	14378876.19	39°35'44.9210"N	80°56'28.4527"W	10727.68	342.319	0.27	0.00	-0.27	
16964.00	88.770	341.020	6280.10	10818.60	10309.78	-3288.81	1656939.77	14378965.00	39°35'45.7993"N	80°56'28.8432"W	10821.64	342.307	0.11	-0.06	0.09	
17059.00	88.770	340.880	6282.14	10913.58	10399.56	-3319.81	1656908.79	14379054.74	39°35'46.6868"N	80°56'29.2385"W	10916.59	342.296	0.15	0.00	-0.15	
17153.00	88.710	341.240	6284.20	11007.56	10488.45	-3350.31	1656878.29	14379143.60	39°35'47.5655"N	80°56'29.6274"W	11010.55	342.285	0.39	-0.06	0.38	
17248.00	88.800	340.920	6286.27	11102.53	10578.29	-3381.11	1656847.51	14379233.41	39°35'48.4536"N	80°56'30.0200"W	11105.50	342.275	0.35	0.09	-0.34	
17283.00	88.710	340.940	6287.03	11137.53	10611.37	-3392.54	1656836.08	14379266.46	39°35'48.7806"N	80°56'30.1658"W	11140.48	342.271	0.26	-0.26	0.06	
17308.00†	88.710	340.940	6287.59	11162.52	10634.99	-3400.70	1656827.92	14379290.08	39°35'49.0141"N	80°56'30.2699"W	11165.47	342.268	0.00	0.00	0.00	Projected MD at TD: 17308'

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 6.80				Reference: IADC/SPE 59196			
Values	Wellpath characterized as:			Values	Wellpath characterized as:		
< 6.0	Relatively short or simple profiles with low tortuosity			6.4-6.8	Longer with relatively tortuous well paths		
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity			> 6.8	Long tortuous profiles, high degree of difficulty		



Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

HOLE & CASING SECTIONS - Ref Wellbore: Grey Unit 1H AWB Ref Wellpath: Grey Unit 1H AWP Proj: 17308'

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	125.50	100.00	25.50	125.50	0.00	0.00	0.21	-0.50
17 1/2in Open Hole	125.50	597.00	471.50	125.50	596.99	0.21	-0.50	1.28	-2.05
13 3/8in Casing Surface	25.50	577.00	551.50	25.50	576.99	0.00	0.00	1.27	-2.03
12 1/4in Open Hole	597.00	3307.00	2710.00	596.99	3300.24	1.28	-2.05	-150.27	91.72
9 5/8in Casing Intermediate	25.50	3277.00	3251.50	25.50	3270.24	0.00	0.00	-149.85	91.44
8 3/4in Open Hole	3307.00	5570.00	2263.00	3300.24	5562.95	-150.27	91.72	-129.49	89.54
8 1/2in Open Hole	5570.00	17308.00	11738.00	5562.95	6287.59	-129.49	89.54	10634.99	-3400.70
5 1/2in Casing Production	25.50	17288.00	17262.50	25.50	6287.14	0.00	0.00	10616.09	-3394.17

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Grey Unit 1H POE Rev-1	6201.00	316.08	60.10	1660287.34	14368975.31	39°34'7.0056"N	80°55'46.1631"W	point
Grey Unit 1H POE Rev-3	6215.00	316.08	60.10	1660287.34	14368975.31	39°34'7.0056"N	80°55'46.1631"W	point
Grey Unit 1H POE Rev-2	6222.00	316.08	60.10	1660287.34	14368975.31	39°34'7.0056"N	80°55'46.1631"W	point
Grey Unit 1H BHL Rev-1	6249.00	10568.66	-3369.47	1656859.14	14379223.78	39°35'48.3584"N	80°56'29.8715"W	point
Grey Unit 1H AZI Rev-3	6260.00	1038.00	-78.82	1660148.47	14369696.94	39°34'14.1416"N	80°55'47.9299"W	point
Grey Unit 1H BHL Rev-3	6260.00	10568.66	-3369.47	1656859.14	14379223.78	39°35'48.3584"N	80°56'29.8715"W	point
Grey Unit 1H LP Rev-3	6260.00	564.15	30.22	1660257.47	14369223.28	39°34'9.4576"N	80°55'46.5423"W	point
Grey Unit 1H BHL Rev-2	6267.00	10568.66	-3369.47	1656859.14	14379223.78	39°35'48.3584"N	80°56'29.8715"W	point

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Grey Unit 1H 50' L/R Hard Line	6500.00	5804.63	-1724.60	1658503.36	14374461.66	39°35'1.2634"N	80°56'8.9025"W	rectangle
2D Rectangle: 10080 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Grey Unit 1H AWB Ref Wellpath: Grey Unit 1H AWP Proj: 17308'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	565.00	Gyrodata 2015 - GC+WR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-565')	Grey Unit 1H AWB	2025-08-06
565.00	3227.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (565')(691'-3227')	Grey Unit 1H AWB	2025-08-06
3227.00	5492.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3227')(3315'-5492')	Grey Unit 1H AWB	2025-08-14
5492.00	17308.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (5492')(5612'-17283')	Grey Unit 1H AWB	2025-08-14



Actual Wellpath Report

Grey Unit 1H AWP Proj: 17308'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Grey Unit 1H
Field	Tyler	UWI	47-095-02934-0000
Facility	Starkey Pad	Wellbore	Grey Unit 1H AWB
Slot	Slot K		

COMMENTS

Wellpath general comments

API: 47-095-02934-0000

BH Job #: 112775297

Rig: H&P 317

Duration: 8/16/2025-8/18/2025

Gyrodata MS Gyro <17-1/2"> (100'-565')

APS EM <12-1/4"> (565')(691'-3227')

APS EM <8-3/4"> (3227')(3315'-5492')

BH Lucida <8-1/2"> (5492')(5612'-17283')

Sycamore: 6054' MD

Middlesex: 6196' MD

Burkett: 6361' MD

Marcellus POE: 6433' MD

Projected MD at TD: 17308'