ANTERO RESOURCES CORPORATION

Area: Tyler County, WV
Field: Tyler
Facility: Shinn Pad
Slot: Slot J

Well: Hillee Unit 1H
UWI: 47-095-02948-0000
Wellbore: Hillee Unit 1H PWB
Wellpath: Hillee Unit 1H PWP Rev-C.0

Plot reference wellpath is Hillee Unit 1H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1066 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot J): -1036 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2025-12-30, Database: WA_MPL_EASTERNUS_Deth

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Shinn Pad			1655203.580	14363830.010	39°33'16.1672N	80°56'51.1437W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot J	-246.67	-262.49	1654941.200	14363583.440	39°33'13.7308N	80°56'54.4965W
Comment	Hillee Unit 1H					
H&P 519 (RKB) to Ground level (At Slot: Slot J)					30ft	
Mean Sea Level to Ground level (At Slot: Slot J)					-1036ft	
H&P 519 (RKB) to Mean Sea Level					1066ft	

Gyrodata MS Gyro <17-1/2"> (100'-468') : 0.21° Inc, 100.00ft MD, 100.00ft TVD, -0.13ft VS

APS EM <12-1/4"> (468')(502'-3037') : 0.47° Inc, 502.00ft MD, 501.99ft TVD, -1.70ft VS

User specified (HDGM) Dip: 65.95° Field: 51051.8 nT
Magnetic North is 7.46 degrees West of True North (at 2025-11-13)
Grid North is 0.03 degrees East of True North
To correct azimuth from True to Grid subtract 0.03 degrees
To correct azimuth from Magnetic to Grid subtract 7.49 degrees

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API: 47-095-02948-0000
BH Job #: 112868253
Rig: H&P 519
Duration: 11/10/2025-11/17/2025

APS EM <8-3/4"> (3037')(3128'-5356') : 9.82° Inc, 3128.00ft MD, 3093.64ft TVD, -293.55ft VS

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5356.00	0.380	279.310	5314.04	-448.82	-192.78	0.71	-362.23
PtB	5430.00	0.380	279.310	5388.04	-448.74	-193.27	0.00	-362.00
Drop	6156.34	52.633	327.600	6015.97	-186.09	-362.24	7.21	-58.80
POE	6453.79	76.415	328.532	6143.00	40.28	-503.07	8.00	200.98
Landing Pt.	6629.76	90.500	328.532	6163.00	189.02	-594.11	8.00	371.18
On Azi	7188.72	90.501	341.109	6158.10	693.83	-831.43	2.25	925.64
BHL	19093.10	90.501	341.109	6053.98	11956.56	-4685.53	0.00	12829.56

Well Data

Slot	Well	Wellbore	Wellpath
Slot J	Hillee Unit 1H	Hillee Unit 1H AWB	Hillee Unit 1H AWP Proj: 19081'
Slot J	Hillee Unit 1H	Hillee Unit 1H PWB	Hillee Unit 1H PWP Rev-C.0

BH Lucida (x-Short) <8-1/2"> (5356')(5423'-19056') : 0.65° Inc, 5423.00ft MD, 5381.04ft TVD, -361.84ft VS

Marcellus POE: 6483' MD : 76.67° Inc, 6483.00ft MD, 6145.89ft TVD, 231.53ft VS

Projected MD at TD: 19081' : 89.85° Inc, 19081.00ft MD, 6042.22ft TVD, 12817.18ft VS

Vertical Section (ft)
Azimuth 341.110° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500

Easting (ft)
Scale 1 inch = 2500

BHL : 58'

Projected MD at TD: 19081' : 6042.22ft TVD, 11940.80ft N, 4693.38ft W

Hillee Unit 1H 50' UR Hard Line

Marcellus POE: 6483' MD : 6145.89ft TVD, 65.21ft N, 524.58ft W

POE : 439'

Slot J

BH Lucida (x-Short) <8-1/2"> (5356')(5423'-19056') : 5381.04ft TVD, 448.59ft S, 193.33ft W
APS EM <8-3/4"> (3037')(3128'-5356') : 3093.64ft TVD, 368.27ft S, 169.54ft W
APS EM <12-1/4"> (468')(502'-3037') : 501.99ft TVD, 1.24ft S, 1.61ft E
Gyrodata MS Gyro <17-1/2"> (100'-468') : 100.00ft TVD, 0.12ft S, 0.05ft E

True Vertical Depth (ft)

Northing (ft)

Actual Wellpath Report

Hillee Unit 1H AWP Proj: 19081'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

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 2025-12-30 at 5:51:24 PM
Scale	0.999600	Last Updated	2025-12-30
Convergence at slot	0.03° 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	-246.67	-262.49	1654941.20	14363583.44	39°33'13.7308"N	80°56'54.4965"W
Facility Reference Pt			1655203.58	14363830.01	39°33'16.1672"N	80°56'51.1437"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 519 (RKB) to Facility Vertical Datum	1066.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1066.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot J)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.110°

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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	157.930	0.00	0.00	0.00	0.00	1654941.20	14363583.44	39°33'13.7308"N	80°56'54.4965"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	157.930	30.00	0.00	0.00	0.00	1654941.20	14363583.44	39°33'13.7308"N	80°56'54.4965"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.210	157.930	100.00	-0.13	-0.12	0.05	1654941.25	14363583.32	39°33'13.7296"N	80°56'54.4959"W	0.13	157.930	0.30	0.30	0.00	Gyrodata MS Gyro <17-1/2"> (100'-468')
200.00	0.210	143.660	200.00	-0.49	-0.44	0.23	1654941.43	14363583.00	39°33'13.7265"N	80°56'54.4937"W	0.49	152.654	0.05	0.00	-14.27	
300.00	0.270	109.360	300.00	-0.81	-0.66	0.56	1654941.76	14363582.78	39°33'13.7243"N	80°56'54.4894"W	0.86	139.949	0.15	0.06	-34.30	
400.00	0.340	128.140	400.00	-1.20	-0.92	1.01	1654942.21	14363582.52	39°33'13.7217"N	80°56'54.4836"W	1.37	132.373	0.12	0.07	18.78	
468.00	0.380	114.140	468.00	-1.52	-1.14	1.38	1654942.58	14363582.30	39°33'13.7195"N	80°56'54.4790"W	1.79	129.634	0.14	0.06	-20.59	
502.00	0.470	114.180	501.99	-1.70	-1.24	1.61	1654942.81	14363582.20	39°33'13.7185"N	80°56'54.4760"W	2.03	127.736	0.26	0.26	0.12	APS EM <12-1/4"> (468')(502'-3037')
591.00	1.250	158.630	590.98	-2.92	-2.30	2.29	1654943.49	14363581.14	39°33'13.7081"N	80°56'54.4673"W	3.25	135.044	1.09	0.88	49.94	
681.00	2.980	176.240	680.92	-6.16	-5.55	2.80	1654944.00	14363577.90	39°33'13.6760"N	80°56'54.4608"W	6.21	153.173	2.03	1.92	19.57	
771.00	4.710	186.400	770.72	-11.75	-11.55	2.55	1654943.75	14363571.89	39°33'13.6166"N	80°56'54.4641"W	11.83	167.571	2.06	1.92	11.29	
861.00	6.170	200.140	860.31	-18.85	-19.77	0.47	1654941.67	14363563.68	39°33'13.5354"N	80°56'54.4907"W	19.77	178.641	2.16	1.62	15.27	
951.00	7.830	207.020	949.64	-26.88	-29.77	-3.98	1654937.22	14363553.68	39°33'13.4366"N	80°56'54.5476"W	30.03	187.619	2.06	1.84	7.64	
1041.00	9.610	209.830	1038.60	-36.10	-41.75	-10.50	1654930.70	14363541.71	39°33'13.3182"N	80°56'54.6310"W	43.05	194.123	2.03	1.98	3.12	
1136.00	10.000	207.610	1132.21	-47.01	-55.94	-18.27	1654922.94	14363527.53	39°33'13.1781"N	80°56'54.7302"W	58.85	198.089	0.57	0.41	-2.34	
1230.00	9.660	208.640	1224.83	-57.95	-70.09	-25.83	1654915.38	14363513.38	39°33'13.0382"N	80°56'54.8269"W	74.70	200.233	0.41	-0.36	1.10	
1324.00	9.410	205.890	1317.53	-68.73	-83.93	-32.97	1654908.24	14363499.55	39°33'12.9015"N	80°56'54.9181"W	90.17	201.447	0.55	-0.27	-2.93	
1419.00	10.510	209.200	1411.10	-80.03	-98.48	-40.59	1654900.63	14363485.00	39°33'12.7578"N	80°56'55.0154"W	106.51	202.400	1.30	1.16	3.48	
1513.00	10.670	210.230	1503.50	-91.45	-113.48	-49.15	1654892.07	14363470.01	39°33'12.6095"N	80°56'55.1249"W	123.67	203.419	0.26	0.17	1.10	
1608.00	10.410	209.590	1596.89	-102.90	-128.54	-57.82	1654883.41	14363454.95	39°33'12.4607"N	80°56'55.2356"W	140.95	204.218	0.30	-0.27	-0.67	
1703.00	10.150	208.060	1690.37	-114.30	-143.39	-65.99	1654875.23	14363440.11	39°33'12.3140"N	80°56'55.3401"W	157.85	204.714	0.40	-0.27	-1.61	
1797.00	9.930	207.130	1782.93	-125.59	-157.91	-73.59	1654867.64	14363425.59	39°33'12.1705"N	80°56'55.4371"W	174.22	204.985	0.29	-0.23	-0.99	
1892.00	9.950	205.520	1876.50	-137.14	-172.61	-80.86	1654860.38	14363410.90	39°33'12.0253"N	80°56'55.5301"W	190.61	205.100	0.29	0.02	-1.69	
1986.00	10.020	204.710	1969.08	-148.86	-187.37	-87.77	1654853.46	14363396.15	39°33'11.8795"N	80°56'55.6185"W	206.91	205.101	0.17	0.07	-0.86	
2080.00	9.770	203.330	2061.68	-160.69	-202.12	-94.35	1654846.89	14363381.40	39°33'11.7337"N	80°56'55.7026"W	223.06	205.024	0.37	-0.27	-1.47	
2175.00	9.640	202.200	2155.32	-172.65	-216.89	-100.55	1654840.69	14363366.64	39°33'11.5878"N	80°56'55.7818"W	239.06	204.873	0.24	-0.14	-1.19	
2269.00	9.430	199.090	2248.02	-184.65	-231.45	-106.04	1654835.20	14363352.08	39°33'11.4439"N	80°56'55.8520"W	254.59	204.615	0.59	-0.22	-3.31	
2364.00	10.380	206.210	2341.61	-196.83	-246.48	-112.37	1654828.88	14363337.05	39°33'11.2954"N	80°56'55.9329"W	270.89	204.507	1.63	1.00	7.49	
2458.00	10.850	207.450	2434.00	-208.92	-261.93	-120.19	1654821.06	14363321.61	39°33'11.1427"N	80°56'56.0328"W	288.19	204.648	0.56	0.50	1.32	
2553.00	10.550	206.040	2527.35	-221.25	-277.68	-128.12	1654813.13	14363305.87	39°33'10.9871"N	80°56'56.1343"W	305.82	204.769	0.42	-0.32	-1.48	

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Hillee Unit 1H AWP Proj: 19081'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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
2648.00	10.090	204.690	2620.81	-233.43	-293.06	-135.42	1654805.84	14363290.50	39°33'10.8352"N	80°56'56.2275"W	322.83	204.801	0.55	-0.48	-1.42	
2742.00	9.830	203.150	2713.40	-245.36	-307.92	-142.01	1654799.24	14363275.65	39°33'10.6884"N	80°56'56.3118"W	339.09	204.759	0.40	-0.28	-1.64	
2837.00	9.350	201.660	2807.07	-257.24	-322.55	-148.05	1654793.21	14363261.02	39°33'10.5438"N	80°56'56.3890"W	354.90	204.655	0.57	-0.51	-1.57	
2931.00	10.010	205.110	2899.73	-268.92	-337.04	-154.33	1654786.93	14363246.54	39°33'10.4006"N	80°56'56.4693"W	370.70	204.604	0.93	0.70	3.67	
3026.00	10.440	207.250	2993.22	-280.82	-352.17	-161.78	1654779.49	14363231.41	39°33'10.2511"N	80°56'56.5645"W	387.55	204.673	0.60	0.45	2.25	
3037.00	10.310	207.220	3004.04	-282.20	-353.93	-162.69	1654778.58	14363229.65	39°33'10.2337"N	80°56'56.5761"W	389.53	204.686	1.18	-1.18	-0.27	
3128.00	9.820	203.770	3093.64	-293.55	-368.27	-169.54	1654771.73	14363215.31	39°33'10.0920"N	80°56'56.6636"W	405.42	204.720	0.85	-0.54	-3.79	APS EM <8-3/4"> (3037')(3128'-5356')
3222.00	9.210	197.950	3186.35	-305.47	-382.77	-175.09	1654766.18	14363200.83	39°33'9.9488"N	80°56'56.7346"W	420.91	204.581	1.21	-0.65	-6.19	
3317.00	9.040	193.660	3280.15	-317.84	-397.25	-179.19	1654762.08	14363186.35	39°33'9.8057"N	80°56'56.7871"W	435.80	204.279	0.74	-0.18	-4.52	
3412.00	8.680	198.840	3374.02	-329.80	-411.29	-183.27	1654758.00	14363172.32	39°33'9.6670"N	80°56'56.8393"W	450.27	204.018	0.92	-0.38	5.45	
3507.00	8.560	199.670	3467.94	-341.00	-424.73	-187.97	1654753.31	14363158.88	39°33'9.5341"N	80°56'56.8993"W	464.46	203.872	0.18	-0.13	0.87	
3601.00	7.590	192.500	3561.01	-351.77	-437.38	-191.67	1654749.61	14363146.24	39°33'9.4091"N	80°56'56.9466"W	477.53	203.664	1.49	-1.03	-7.63	
3696.00	6.890	202.040	3655.26	-361.43	-448.79	-195.16	1654746.12	14363134.83	39°33'9.2964"N	80°56'56.9913"W	489.38	203.503	1.46	-0.74	10.04	
3790.00	5.440	213.140	3748.72	-368.43	-457.74	-199.71	1654741.57	14363125.88	39°33'9.2079"N	80°56'57.0495"W	499.42	203.572	1.99	-1.54	11.81	
3885.00	2.860	243.430	3843.47	-371.52	-462.58	-204.30	1654736.99	14363121.05	39°33'9.1602"N	80°56'57.1081"W	505.68	203.829	3.47	-2.72	31.88	
3980.00	2.160	336.240	3938.41	-370.05	-462.00	-207.14	1654734.14	14363121.63	39°33'9.1659"N	80°56'57.1443"W	506.31	204.149	3.86	-0.74	97.69	
4074.00	1.850	36.180	4032.36	-367.42	-459.15	-206.96	1654734.33	14363124.47	39°33'9.1940"N	80°56'57.1420"W	503.64	204.263	2.15	-0.33	63.77	
4169.00	2.020	45.260	4127.31	-365.81	-456.74	-204.86	1654736.42	14363126.89	39°33'9.2179"N	80°56'57.1152"W	500.58	204.158	0.37	0.18	9.56	
4263.00	1.420	93.790	4221.27	-365.54	-455.65	-202.52	1654738.76	14363127.98	39°33'9.2287"N	80°56'57.0854"W	498.63	203.964	1.61	-0.64	51.63	
4358.00	1.160	94.960	4316.24	-366.38	-455.81	-200.39	1654740.89	14363127.82	39°33'9.2271"N	80°56'57.0581"W	497.91	203.732	0.28	-0.27	1.23	
4452.00	1.460	93.030	4410.22	-367.21	-455.95	-198.25	1654743.03	14363127.67	39°33'9.2256"N	80°56'57.0308"W	497.19	203.499	0.32	0.32	-2.05	
4547.00	1.090	81.210	4505.20	-367.82	-455.88	-196.14	1654745.13	14363127.74	39°33'9.2263"N	80°56'57.0039"W	496.28	203.280	0.48	-0.39	-12.44	
4641.00	1.400	75.230	4599.17	-368.06	-455.45	-194.15	1654747.13	14363128.17	39°33'9.2306"N	80°56'56.9785"W	495.10	203.088	0.36	0.33	-6.36	
4736.00	1.300	70.570	4694.15	-368.14	-454.79	-192.01	1654749.26	14363128.83	39°33'9.2370"N	80°56'56.9512"W	493.67	202.889	0.16	-0.11	-4.91	
4830.00	1.440	47.420	4788.12	-367.65	-453.64	-190.14	1654751.14	14363129.98	39°33'9.2484"N	80°56'56.9272"W	491.88	202.740	0.60	0.15	-24.63	
4924.00	1.420	42.990	4882.09	-366.63	-451.99	-188.47	1654752.80	14363131.63	39°33'9.2647"N	80°56'56.9060"W	489.71	202.635	0.12	-0.02	-4.71	
5018.00	0.850	303.100	4976.08	-365.53	-450.76	-188.26	1654753.01	14363132.86	39°33'9.2769"N	80°56'56.9033"W	488.49	202.668	1.89	-0.61	-106.27	
5113.00	1.060	294.470	5071.07	-364.37	-450.01	-189.65	1654751.62	14363133.61	39°33'9.2843"N	80°56'56.9210"W	488.34	202.853	0.27	0.22	-9.08	
5207.00	0.810	296.690	5165.05	-363.30	-449.35	-191.04	1654750.24	14363134.27	39°33'9.2908"N	80°56'56.9387"W	488.27	203.032	0.27	-0.27	2.36	
5302.00	0.760	281.780	5260.05	-362.50	-448.92	-192.26	1654749.02	14363134.70	39°33'9.2951"N	80°56'56.9542"W	488.36	203.184	0.22	-0.05	-15.69	

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Actual Wellpath Report

Hillee Unit 1H AWP Proj: 19081'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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
5356.00	0.380	279.310	5314.04	-362.23	-448.82	-192.78	1654748.50	14363134.80	39°33'9.2961"N	80°56'56.9610"W	488.47	203.245	0.71	-0.70	-4.57	
5423.00	0.650	300.130	5381.04	-361.84	-448.59	-193.33	1654747.95	14363135.03	39°33'9.2983"N	80°56'56.9680"W	488.48	203.315	0.48	0.40	31.07	BH Lucida (x-Short) <8-1/2"> (5356')(5423'-19056')
5517.00	7.400	332.540	5474.76	-355.44	-442.94	-196.59	1654744.69	14363140.67	39°33'9.3542"N	80°56'57.0095"W	484.61	203.932	7.30	7.18	34.48	
5612.00	12.920	327.520	5568.23	-339.06	-428.55	-205.12	1654736.16	14363155.07	39°33'9.4965"N	80°56'57.1183"W	475.10	205.578	5.88	5.81	-5.28	
5706.00	19.090	326.210	5658.55	-313.96	-406.88	-219.32	1654721.96	14363176.72	39°33'9.7107"N	80°56'57.2995"W	462.23	208.326	6.57	6.56	-1.39	
5801.00	27.760	327.430	5745.63	-277.38	-375.27	-239.91	1654701.38	14363208.32	39°33'10.0233"N	80°56'57.5621"W	445.40	212.591	9.14	9.13	1.28	
5896.00	35.030	326.400	5826.67	-229.45	-333.86	-266.95	1654674.36	14363249.72	39°33'10.4327"N	80°56'57.9070"W	427.46	218.645	7.67	7.65	-1.08	
5990.00	40.810	324.280	5900.80	-173.91	-286.41	-299.84	1654641.48	14363297.15	39°33'10.9018"N	80°56'58.3265"W	414.65	226.313	6.30	6.15	-2.26	
6052.00†	44.914	323.561	5946.23	-133.63	-252.33	-324.68	1654616.65	14363331.21	39°33'11.2387"N	80°56'58.6434"W	411.21	232.146	6.67	6.62	-1.16	Sycamore: 6052' MD
6085.00	47.100	323.220	5969.15	-111.02	-233.28	-338.84	1654602.50	14363350.25	39°33'11.4271"N	80°56'58.8240"W	411.38	235.454	6.67	6.62	-1.03	
6180.00	55.530	326.230	6028.49	-39.92	-172.74	-381.52	1654559.83	14363410.77	39°33'12.0257"N	80°56'59.3685"W	418.81	245.641	9.21	8.87	3.17	
6202.00†	57.679	326.635	6040.59	-22.15	-157.44	-391.68	1654549.68	14363426.07	39°33'12.1770"N	80°56'59.4980"W	422.13	248.102	9.89	9.77	1.84	Middlesex: 6202' MD
6274.00	64.720	327.840	6075.26	39.07	-104.40	-425.78	1654515.59	14363479.08	39°33'12.7013"N	80°56'59.9330"W	438.39	256.223	9.89	9.78	1.67	
6368.00	69.280	330.180	6111.98	123.65	-30.24	-470.29	1654471.10	14363553.22	39°33'13.4346"N	80°57'0.5008"W	471.26	266.321	5.36	4.85	2.49	
6384.00†	70.264	330.232	6117.52	138.39	-17.21	-477.75	1654463.64	14363566.24	39°33'13.5634"N	80°57'0.5959"W	478.06	267.937	6.15	6.15	0.32	Burkett: 6384' MD
6463.00	75.120	330.480	6141.01	212.47	48.32	-515.04	1654426.37	14363631.75	39°33'14.2113"N	80°57'1.0715"W	517.30	275.360	6.15	6.15	0.31	
6483.00†	76.667	330.585	6145.89	231.53	65.21	-524.58	1654416.83	14363648.63	39°33'14.3782"N	80°57'1.1932"W	528.62	277.086	7.75	7.74	0.53	Marcellus POE: 6483' MD
6558.00	82.470	330.970	6159.46	304.07	129.56	-560.57	1654380.85	14363712.95	39°33'15.0144"N	80°57'1.6523"W	575.35	283.014	7.75	7.74	0.51	
6652.00	90.400	331.450	6165.30	396.42	211.71	-605.72	1654335.72	14363795.07	39°33'15.8266"N	80°57'2.2280"W	641.65	289.266	8.45	8.44	0.51	
6747.00	90.550	331.260	6164.51	490.04	295.08	-651.26	1654290.20	14363878.41	39°33'16.6508"N	80°57'2.8089"W	714.99	294.375	0.25	0.16	-0.20	
6841.00	90.520	333.410	6163.64	582.93	378.33	-694.90	1654246.58	14363961.62	39°33'17.4738"N	80°57'3.3654"W	791.21	298.566	2.29	-0.03	2.29	
6936.00	90.650	335.470	6162.67	677.28	464.02	-735.88	1654205.61	14364047.28	39°33'18.3209"N	80°57'3.8881"W	869.97	302.234	2.17	0.14	2.17	
7030.00	90.580	338.020	6161.66	770.99	550.37	-772.99	1654168.52	14364133.59	39°33'19.1746"N	80°57'4.3612"W	948.91	305.451	2.71	-0.07	2.71	
7125.00	90.550	339.860	6160.72	865.91	639.02	-807.13	1654134.40	14364222.20	39°33'20.0509"N	80°57'4.7964"W	1029.47	308.369	1.94	-0.03	1.94	
7219.00	90.580	341.140	6159.79	959.90	727.62	-838.50	1654103.03	14364310.77	39°33'20.9267"N	80°57'5.1964"W	1110.19	310.950	1.36	0.03	1.36	
7314.00	91.020	340.930	6158.47	1054.89	817.46	-869.37	1654072.18	14364400.57	39°33'21.8147"N	80°57'5.5899"W	1193.33	313.237	0.51	0.46	-0.22	
7408.00	91.020	340.550	6156.79	1148.87	906.18	-900.37	1654041.19	14364489.26	39°33'22.6918"N	80°57'5.9851"W	1277.43	315.184	0.40	0.00	-0.40	
7503.00	91.110	341.070	6155.03	1243.86	995.89	-931.60	1654009.98	14364578.93	39°33'23.5785"N	80°57'6.3830"W	1363.69	316.910	0.56	0.09	0.55	
7598.00	90.460	340.420	6153.73	1338.84	1085.56	-962.92	1653978.67	14364668.57	39°33'24.4650"N	80°57'6.7824"W	1451.09	318.426	0.97	-0.68	-0.68	
7692.00	90.740	339.940	6152.74	1432.83	1173.99	-994.79	1653946.81	14364756.96	39°33'25.3391"N	80°57'7.1887"W	1538.79	319.723	0.59	0.30	-0.51	

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Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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
7787.00	90.620	338.780	6151.61	1527.77	1262.88	-1028.28	1653913.34	14364845.82	39°33'26.2178"N	80°57'7.6155"W	1628.57	320.847	1.23	-0.13	-1.22	
7881.00	90.990	340.630	6150.29	1621.73	1351.04	-1060.88	1653880.75	14364933.93	39°33'27.0892"N	80°57'8.0312"W	1717.78	321.860	2.01	0.39	1.97	
7976.00	90.830	340.010	6148.78	1716.71	1440.48	-1092.86	1653848.78	14365023.34	39°33'27.9733"N	80°57'8.4390"W	1808.13	322.813	0.67	-0.17	-0.65	
8071.00	90.680	340.990	6147.53	1811.70	1530.02	-1124.57	1653817.08	14365112.84	39°33'28.8585"N	80°57'8.8432"W	1898.85	323.684	1.04	-0.16	1.03	
8166.00	90.120	338.820	6146.87	1906.67	1619.23	-1157.21	1653784.46	14365202.02	39°33'29.7403"N	80°57'9.2593"W	1990.23	324.448	2.36	-0.59	-2.28	
8260.00	90.950	337.780	6145.99	2000.55	1706.56	-1191.96	1653749.72	14365289.31	39°33'30.6036"N	80°57'9.7024"W	2081.61	325.067	1.42	0.88	-1.11	
8355.00	90.680	340.220	6144.64	2095.47	1795.23	-1226.00	1653715.69	14365377.95	39°33'31.4802"N	80°57'10.1364"W	2173.92	325.670	2.58	-0.28	2.57	
8450.00	90.860	341.850	6143.36	2190.45	1885.07	-1256.87	1653684.83	14365467.75	39°33'32.3682"N	80°57'10.5299"W	2265.66	326.307	1.73	0.19	1.72	
8544.00	90.770	342.230	6142.03	2284.43	1974.48	-1285.85	1653655.86	14365557.12	39°33'33.2520"N	80°57'10.8994"W	2356.26	326.926	0.42	-0.10	0.40	
8639.00	90.770	341.800	6140.75	2379.41	2064.83	-1315.18	1653626.54	14365647.44	39°33'34.1451"N	80°57'11.2732"W	2448.10	327.505	0.45	0.00	-0.45	
8733.00	90.860	339.640	6139.41	2473.39	2153.54	-1346.22	1653595.52	14365736.11	39°33'35.0221"N	80°57'11.6689"W	2539.69	327.990	2.30	0.10	-2.30	
8828.00	90.770	339.350	6138.06	2568.35	2242.51	-1379.49	1653562.26	14365825.05	39°33'35.9016"N	80°57'12.0931"W	2632.84	328.402	0.32	-0.09	-0.31	
8923.00	90.890	341.680	6136.68	2663.33	2332.05	-1411.17	1653530.59	14365914.56	39°33'36.7867"N	80°57'12.4970"W	2725.78	328.821	2.46	0.13	2.45	
9018.00	90.520	342.310	6135.52	2758.31	2422.40	-1440.54	1653501.24	14366004.86	39°33'37.6797"N	80°57'12.8713"W	2818.36	329.261	0.77	-0.39	0.66	
9113.00	90.740	341.280	6134.47	2853.29	2512.63	-1470.21	1653471.58	14366095.06	39°33'38.5717"N	80°57'13.2497"W	2911.16	329.667	1.11	0.23	-1.08	
9207.00	90.990	342.040	6133.05	2947.28	2601.85	-1499.79	1653442.02	14366184.24	39°33'39.4536"N	80°57'13.6267"W	3003.16	330.039	0.85	0.27	0.81	
9302.00	90.680	342.280	6131.67	3042.25	2692.27	-1528.89	1653412.93	14366274.63	39°33'40.3474"N	80°57'13.9976"W	3096.10	330.409	0.41	-0.33	0.25	
9397.00	90.620	342.490	6130.59	3137.22	2782.81	-1557.64	1653384.19	14366365.13	39°33'41.2424"N	80°57'14.3641"W	3189.08	330.763	0.23	-0.06	0.22	
9491.00	91.050	338.940	6129.22	3231.19	2871.51	-1588.67	1653353.17	14366453.80	39°33'42.1192"N	80°57'14.7598"W	3281.68	331.046	3.80	0.46	-3.78	
9586.00	90.800	339.350	6127.69	3326.12	2960.28	-1622.49	1653319.36	14366542.53	39°33'42.9966"N	80°57'15.1910"W	3375.75	331.273	0.51	-0.26	0.43	
9680.00	90.800	341.060	6126.37	3420.10	3048.71	-1654.32	1653287.55	14366630.92	39°33'43.8708"N	80°57'15.5968"W	3468.63	331.514	1.82	0.00	1.82	
9775.00	90.680	340.930	6125.15	3515.09	3138.52	-1685.25	1653256.63	14366720.70	39°33'44.7586"N	80°57'15.9912"W	3562.36	331.766	0.19	-0.13	-0.14	
9869.00	90.860	339.980	6123.88	3609.08	3227.10	-1716.70	1653225.19	14366809.24	39°33'45.6342"N	80°57'16.3921"W	3655.30	331.989	1.03	0.19	-1.01	
9964.00	90.650	338.450	6122.63	3704.01	3315.90	-1750.40	1653191.50	14366898.01	39°33'46.5121"N	80°57'16.8219"W	3749.55	332.171	1.63	-0.22	-1.61	
10058.00	90.860	342.470	6121.39	3797.98	3404.46	-1781.83	1653160.08	14366986.54	39°33'47.3875"N	80°57'17.2227"W	3842.57	332.373	4.28	0.22	4.28	
10153.00	90.860	342.870	6119.97	3892.93	3495.14	-1810.13	1653131.80	14367077.18	39°33'48.2838"N	80°57'17.5834"W	3936.06	332.620	0.42	0.00	0.42	
10248.00	90.860	344.910	6118.54	3987.81	3586.40	-1836.49	1653105.45	14367168.40	39°33'49.1858"N	80°57'17.9193"W	4029.26	332.884	2.15	0.00	2.15	
10342.00	90.680	341.040	6117.28	4081.73	3676.25	-1864.00	1653077.95	14367258.21	39°33'50.0740"N	80°57'18.2700"W	4121.81	333.113	4.12	-0.19	-4.12	
10437.00	90.860	345.590	6116.00	4176.63	3767.22	-1891.27	1653050.69	14367349.15	39°33'50.9732"N	80°57'18.6176"W	4215.31	333.342	4.79	0.19	4.79	
10532.00	90.770	345.910	6114.65	4271.30	3859.29	-1914.65	1653027.32	14367441.18	39°33'51.8833"N	80°57'18.9156"W	4308.13	333.613	0.35	-0.09	0.34	

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Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
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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
10626.00	90.680	341.780	6113.46	4365.17	3949.55	-1940.79	1653001.19	14367531.40	39°33'52.7755"N	80°57'19.2489"W	4400.64	333.831	4.39	-0.10	-4.39	
10721.00	90.490	341.970	6112.49	4460.16	4039.83	-1970.35	1652971.64	14367621.65	39°33'53.6679"N	80°57'19.6256"W	4494.72	334.000	0.28	-0.20	0.20	
10815.00	90.430	342.180	6111.73	4554.14	4129.26	-1999.28	1652942.73	14367711.05	39°33'54.5519"N	80°57'19.9945"W	4587.80	334.165	0.23	-0.06	0.22	
10910.00	90.400	341.810	6111.04	4649.13	4219.61	-2028.64	1652913.38	14367801.35	39°33'55.4450"N	80°57'20.3688"W	4681.93	334.323	0.39	-0.03	-0.39	
11005.00	90.400	342.220	6110.38	4744.11	4309.97	-2057.97	1652884.05	14367891.67	39°33'56.3381"N	80°57'20.7428"W	4776.09	334.476	0.43	0.00	0.43	
11100.00	90.370	342.280	6109.74	4839.09	4400.44	-2086.93	1652855.10	14367982.11	39°33'57.2325"N	80°57'21.1120"W	4870.23	334.627	0.07	-0.03	0.06	
11194.00	90.800	342.070	6108.78	4933.07	4489.92	-2115.71	1652826.34	14368071.56	39°33'58.1170"N	80°57'21.4789"W	4963.43	334.770	0.51	0.46	-0.22	
11289.00	90.890	342.500	6107.38	5028.04	4580.41	-2144.61	1652797.45	14368162.01	39°33'59.0114"N	80°57'21.8474"W	5057.62	334.910	0.46	0.09	0.45	
11383.00	90.770	340.880	6106.02	5122.02	4669.64	-2174.14	1652767.94	14368251.20	39°33'59.8934"N	80°57'22.2238"W	5150.96	335.034	1.73	-0.13	-1.72	
11478.00	90.890	341.170	6104.64	5217.01	4759.47	-2205.02	1652737.06	14368340.99	39°34'0.7813"N	80°57'22.6177"W	5245.44	335.142	0.33	0.13	0.31	
11573.00	90.770	341.280	6103.27	5312.00	4849.40	-2235.60	1652706.50	14368430.89	39°34'1.6704"N	80°57'23.0075"W	5339.90	335.250	0.17	-0.13	0.12	
11668.00	90.860	342.310	6101.92	5406.98	4939.64	-2265.27	1652676.84	14368521.09	39°34'2.5623"N	80°57'23.3859"W	5434.29	335.364	1.09	0.09	1.08	
11762.00	90.800	342.660	6100.56	5500.95	5029.27	-2293.56	1652648.56	14368610.69	39°34'3.4483"N	80°57'23.7465"W	5527.56	335.485	0.38	-0.06	0.37	
11856.00	90.800	341.550	6099.24	5594.92	5118.71	-2322.44	1652619.69	14368700.09	39°34'4.3324"N	80°57'24.1147"W	5620.94	335.595	1.18	0.00	-1.18	
11951.00	90.770	341.340	6097.94	5689.91	5208.76	-2352.67	1652589.48	14368790.11	39°34'5.2226"N	80°57'24.5002"W	5715.44	335.693	0.22	-0.03	-0.22	
12045.00	90.800	341.510	6096.65	5783.90	5297.86	-2382.61	1652559.55	14368879.17	39°34'6.1033"N	80°57'24.8819"W	5808.97	335.785	0.18	0.03	0.18	
12140.00	90.520	339.590	6095.56	5878.88	5387.43	-2414.24	1652527.93	14368968.70	39°34'6.9886"N	80°57'25.2853"W	5903.64	335.862	2.04	-0.29	-2.02	
12235.00	90.770	340.230	6094.49	5973.86	5476.64	-2446.87	1652495.32	14369057.88	39°34'7.8705"N	80°57'25.7014"W	5998.40	335.926	0.72	0.26	0.67	
12329.00	90.620	339.860	6093.35	6067.83	5564.99	-2478.95	1652463.25	14369146.19	39°34'8.7438"N	80°57'26.1105"W	6092.15	335.989	0.42	-0.16	-0.39	
12423.00	90.580	339.860	6092.37	6161.81	5653.24	-2511.31	1652430.90	14369234.41	39°34'9.6162"N	80°57'26.5232"W	6185.93	336.048	0.04	-0.04	0.00	
12518.00	90.550	340.050	6091.43	6256.78	5742.48	-2543.87	1652398.35	14369323.61	39°34'10.4983"N	80°57'26.9385"W	6280.71	336.107	0.20	-0.03	0.20	
12612.00	90.650	340.120	6090.44	6350.76	5830.85	-2575.89	1652366.35	14369411.95	39°34'11.3719"N	80°57'27.3468"W	6374.48	336.166	0.13	0.11	0.07	
12706.00	90.650	340.110	6089.38	6444.74	5919.24	-2607.86	1652334.39	14369500.30	39°34'12.2456"N	80°57'27.7545"W	6468.26	336.223	0.01	0.00	-0.01	
12801.00	90.620	339.510	6088.32	6539.71	6008.40	-2640.64	1652301.62	14369589.42	39°34'13.1269"N	80°57'28.1726"W	6563.07	336.275	0.63	-0.03	-0.63	
12895.00	90.710	340.570	6087.23	6633.69	6096.74	-2672.73	1652269.55	14369677.74	39°34'14.0002"N	80°57'28.5818"W	6656.86	336.328	1.13	0.10	1.13	
12990.00	90.740	340.500	6086.03	6728.67	6186.31	-2704.38	1652237.90	14369767.26	39°34'14.8855"N	80°57'28.9855"W	6751.60	336.387	0.08	0.03	-0.07	
13084.00	90.680	340.670	6084.87	6822.66	6274.96	-2735.63	1652206.67	14369855.87	39°34'15.7618"N	80°57'29.3839"W	6845.34	336.445	0.19	-0.06	0.18	
13179.00	90.620	340.100	6083.79	6917.65	6364.44	-2767.52	1652174.80	14369945.32	39°34'16.6463"N	80°57'29.7906"W	6940.12	336.499	0.60	-0.06	-0.60	
13273.00	90.590	339.630	6082.80	7011.62	6452.69	-2799.87	1652142.45	14370033.53	39°34'17.5187"N	80°57'30.2033"W	7033.95	336.544	0.50	-0.03	-0.50	
13368.00	90.620	340.130	6081.79	7106.59	6541.88	-2832.55	1652109.79	14370122.70	39°34'18.4004"N	80°57'30.6200"W	7128.79	336.588	0.53	0.03	0.53	

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Actual Wellpath Report

Hillee Unit 1H AWP Proj: 19081'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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
13462.00	90.770	341.360	6080.65	7200.58	6630.62	-2863.54	1652078.81	14370211.39	39°34'19.2775"N	80°57'31.0153"W	7222.53	336.642	1.32	0.16	1.31	
13557.00	90.800	341.900	6079.35	7295.57	6720.77	-2893.48	1652048.88	14370301.51	39°34'20.1686"N	80°57'31.3971"W	7317.17	336.707	0.57	0.03	0.57	
13747.00	90.950	347.690	6076.45	7485.07	6904.02	-2943.29	1651999.10	14370484.68	39°34'21.9799"N	80°57'32.0320"W	7505.22	336.911	3.05	0.08	3.05	
13841.00	91.320	346.430	6074.59	7578.55	6995.61	-2964.33	1651978.06	14370576.24	39°34'22.8852"N	80°57'32.3002"W	7597.75	337.036	1.40	0.39	-1.34	
13936.00	90.770	342.900	6072.85	7673.33	7087.20	-2989.45	1651952.95	14370667.79	39°34'23.7905"N	80°57'32.6204"W	7691.89	337.130	3.76	-0.58	-3.72	
14031.00	89.540	340.500	6072.60	7768.32	7177.38	-3019.27	1651923.14	14370757.94	39°34'24.6820"N	80°57'33.0008"W	7786.58	337.185	2.84	-1.29	-2.53	
14125.00	89.540	339.600	6073.35	7862.30	7265.74	-3051.34	1651891.08	14370846.26	39°34'25.5554"N	80°57'33.4099"W	7880.46	337.219	0.96	0.00	-0.96	
14220.00	90.860	340.080	6073.02	7957.27	7354.92	-3084.09	1651858.35	14370935.40	39°34'26.4369"N	80°57'33.8274"W	7975.36	337.251	1.48	1.39	0.51	
14314.00	90.890	340.220	6071.58	8051.25	7443.32	-3116.00	1651826.45	14371023.77	39°34'27.3107"N	80°57'34.2345"W	8069.23	337.284	0.15	0.03	0.15	
14409.00	91.320	340.290	6069.75	8146.22	7532.72	-3148.09	1651794.38	14371113.13	39°34'28.1944"N	80°57'34.6438"W	8164.09	337.319	0.46	0.45	0.07	
14503.00	91.080	339.210	6067.78	8240.17	7620.89	-3180.62	1651761.86	14371201.27	39°34'29.0660"N	80°57'35.0586"W	8257.98	337.347	1.18	-0.26	-1.15	
14598.00	90.890	340.060	6066.15	8335.13	7709.94	-3213.67	1651728.82	14371290.28	39°34'29.9462"N	80°57'35.4803"W	8352.89	337.373	0.92	-0.20	0.89	
14692.00	90.250	339.120	6065.21	8429.09	7798.03	-3246.45	1651696.06	14371378.34	39°34'30.8170"N	80°57'35.8984"W	8446.81	337.397	1.21	-0.68	-1.00	
14787.00	90.550	339.560	6064.55	8524.04	7886.92	-3279.97	1651662.55	14371467.19	39°34'31.6956"N	80°57'36.3259"W	8541.76	337.419	0.56	0.32	0.46	
14881.00	90.220	339.620	6063.92	8618.00	7975.01	-3312.75	1651629.78	14371555.25	39°34'32.5665"N	80°57'36.7440"W	8635.69	337.442	0.36	-0.35	0.06	
14976.00	90.120	338.260	6063.64	8712.93	8063.67	-3346.88	1651595.66	14371643.87	39°34'33.4428"N	80°57'37.1795"W	8730.65	337.459	1.44	-0.11	-1.43	
15071.00	91.050	341.200	6062.67	8807.89	8152.77	-3379.79	1651562.77	14371732.93	39°34'34.3235"N	80°57'37.5992"W	8825.56	337.483	3.25	0.98	3.09	
15165.00	91.140	342.050	6060.87	8901.87	8241.96	-3409.42	1651533.15	14371822.09	39°34'35.2051"N	80°57'37.9771"W	8919.30	337.527	0.91	0.10	0.90	
15260.00	91.630	341.750	6058.57	8996.83	8332.23	-3438.92	1651503.66	14371912.32	39°34'36.0974"N	80°57'38.3534"W	9014.00	337.573	0.60	0.52	-0.32	
15354.00	91.510	341.300	6056.00	9090.79	8421.35	-3468.70	1651473.89	14372001.41	39°34'36.9784"N	80°57'38.7331"W	9107.74	337.614	0.50	-0.13	-0.48	
15449.00	91.450	341.050	6053.55	9185.76	8511.24	-3499.34	1651443.26	14372091.26	39°34'37.8669"N	80°57'39.1240"W	9202.53	337.650	0.27	-0.06	-0.26	
15544.00	91.540	341.830	6051.07	9280.73	8601.27	-3529.57	1651413.05	14372181.25	39°34'38.7568"N	80°57'39.5095"W	9297.29	337.689	0.83	0.09	0.82	
15638.00	90.920	341.420	6049.05	9374.70	8690.45	-3559.20	1651383.43	14372270.40	39°34'39.6384"N	80°57'39.8874"W	9391.05	337.728	0.79	-0.66	-0.44	
15733.00	90.680	341.090	6047.72	9469.69	8780.40	-3589.72	1651352.92	14372360.32	39°34'40.5275"N	80°57'40.2767"W	9485.86	337.764	0.43	-0.25	-0.35	
15828.00	90.740	341.210	6046.55	9564.68	8870.30	-3620.41	1651322.24	14372450.18	39°34'41.4161"N	80°57'40.6682"W	9580.69	337.797	0.14	0.06	0.13	
15922.00	90.830	341.410	6045.26	9658.67	8959.34	-3650.53	1651292.13	14372539.18	39°34'42.2962"N	80°57'41.0523"W	9674.51	337.831	0.23	0.10	0.21	
16017.00	90.740	341.320	6043.96	9753.66	9049.35	-3680.89	1651261.79	14372629.15	39°34'43.1859"N	80°57'41.4395"W	9769.32	337.866	0.13	-0.09	-0.09	
16112.00	90.740	341.040	6042.73	9848.65	9139.26	-3711.53	1651231.16	14372719.03	39°34'44.0747"N	80°57'41.8304"W	9864.16	337.898	0.29	0.00	-0.29	
16206.00	90.770	341.400	6041.49	9942.65	9228.25	-3741.79	1651200.91	14372807.98	39°34'44.9543"N	80°57'42.2163"W	9957.99	337.929	0.38	0.03	0.38	
16301.00	90.680	340.940	6040.29	10037.64	9318.16	-3772.45	1651170.27	14372897.85	39°34'45.8430"N	80°57'42.6074"W	10052.83	337.959	0.49	-0.09	-0.48	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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
16395.00	90.740	340.570	6039.12	10131.63	9406.90	-3803.43	1651139.30	14372986.56	39°34'46.7202"N	80°57'43.0026"W	10146.71	337.985	0.40	0.06	-0.39	
16490.00	90.740	340.540	6037.90	10226.62	9496.47	-3835.05	1651107.69	14373076.10	39°34'47.6056"N	80°57'43.4060"W	10241.61	338.009	0.03	0.00	-0.03	
16584.00	90.400	341.010	6036.96	10320.61	9585.22	-3866.00	1651076.75	14373164.81	39°34'48.4829"N	80°57'43.8008"W	10335.50	338.034	0.62	-0.36	0.50	
16679.00	90.460	341.000	6036.25	10415.61	9675.05	-3896.92	1651045.84	14373254.60	39°34'49.3708"N	80°57'44.1952"W	10430.37	338.061	0.06	0.06	-0.01	
16773.00	90.400	341.190	6035.54	10509.60	9763.98	-3927.38	1651015.40	14373343.49	39°34'50.2498"N	80°57'44.5837"W	10524.24	338.088	0.21	-0.06	0.20	
16868.00	90.370	341.200	6034.90	10604.60	9853.90	-3958.00	1650984.79	14373433.38	39°34'51.1387"N	80°57'44.9743"W	10619.09	338.116	0.03	-0.03	0.01	
16962.00	89.880	340.630	6034.70	10698.60	9942.74	-3988.74	1650954.07	14373522.18	39°34'52.0168"N	80°57'45.3664"W	10712.98	338.141	0.80	-0.52	-0.61	
17057.00	90.000	340.500	6034.80	10793.60	10032.32	-4020.35	1650922.47	14373611.73	39°34'52.9023"N	80°57'45.7696"W	10807.90	338.162	0.19	0.13	-0.14	
17151.00	90.030	340.960	6034.77	10887.59	10121.06	-4051.37	1650891.46	14373700.43	39°34'53.7794"N	80°57'46.1653"W	10901.80	338.184	0.49	0.03	0.49	
17246.00	89.780	340.500	6034.93	10982.59	10210.73	-4082.72	1650860.12	14373790.07	39°34'54.6658"N	80°57'46.5653"W	10996.71	338.206	0.55	-0.26	-0.48	
17341.00	89.630	339.010	6035.42	11077.56	10299.86	-4115.59	1650827.26	14373879.16	39°34'55.5468"N	80°57'46.9846"W	11091.67	338.219	1.58	-0.16	-1.57	
17435.00	89.850	339.000	6035.85	11171.50	10387.62	-4149.27	1650793.60	14373966.89	39°34'56.4143"N	80°57'47.4143"W	11185.66	338.226	0.23	0.23	-0.01	
17530.00	89.570	339.670	6036.33	11266.45	10476.50	-4182.79	1650760.09	14374055.74	39°34'57.2929"N	80°57'47.8420"W	11280.64	338.235	0.76	-0.29	0.71	
17624.00	89.850	340.700	6036.80	11360.43	10564.94	-4214.66	1650728.23	14374144.13	39°34'58.1670"N	80°57'48.2485"W	11374.59	338.252	1.14	0.30	1.10	
17719.00	89.230	336.360	6037.57	11455.31	10653.32	-4249.42	1650693.49	14374232.48	39°34'59.0407"N	80°57'48.6920"W	11469.56	338.254	4.61	-0.65	-4.57	
17813.00	89.510	341.330	6038.60	11549.20	10740.95	-4283.33	1650659.59	14374320.08	39°34'59.9069"N	80°57'49.1247"W	11563.52	338.259	5.30	0.30	5.29	
17908.00	89.350	340.850	6039.55	11644.20	10830.82	-4314.12	1650628.82	14374409.91	39°35'0.7952"N	80°57'49.5174"W	11658.40	338.282	0.53	-0.17	-0.51	
18003.00	90.000	341.100	6040.09	11739.20	10920.63	-4345.08	1650597.86	14374499.68	39°35'1.6829"N	80°57'49.9125"W	11753.29	338.303	0.73	0.68	0.26	
18097.00	89.880	341.280	6040.18	11833.20	11009.61	-4375.39	1650567.56	14374588.63	39°35'2.5625"N	80°57'50.2991"W	11847.17	338.326	0.23	-0.13	0.19	
18192.00	89.880	341.170	6040.38	11928.20	11099.55	-4405.97	1650537.00	14374678.53	39°35'3.4515"N	80°57'50.6892"W	11942.05	338.349	0.12	0.00	-0.12	
18287.00	89.940	341.220	6040.53	12023.19	11189.48	-4436.59	1650506.39	14374768.43	39°35'4.3404"N	80°57'51.0799"W	12036.94	338.372	0.08	0.06	0.05	
18381.00	89.780	341.060	6040.76	12117.19	11278.44	-4466.98	1650476.02	14374857.34	39°35'5.2197"N	80°57'51.4675"W	12130.83	338.393	0.24	-0.17	-0.17	
18476.00	89.910	340.690	6041.02	12212.19	11368.19	-4498.10	1650444.90	14374947.06	39°35'6.1069"N	80°57'51.8646"W	12225.74	338.413	0.41	0.14	-0.39	
18571.00	90.000	341.280	6041.09	12307.19	11458.01	-4529.06	1650413.96	14375036.84	39°35'6.9947"N	80°57'52.2595"W	12320.64	338.432	0.63	0.09	0.62	
18665.00	89.850	340.950	6041.22	12401.19	11546.95	-4559.48	1650383.55	14375125.75	39°35'7.8738"N	80°57'52.6476"W	12414.54	338.453	0.39	-0.16	-0.35	
18760.00	89.660	340.760	6041.62	12496.19	11636.69	-4590.64	1650352.41	14375215.46	39°35'8.7609"N	80°57'53.0451"W	12509.46	338.471	0.28	-0.20	-0.20	
18855.00	89.880	341.190	6042.00	12591.19	11726.50	-4621.60	1650321.45	14375305.23	39°35'9.6486"N	80°57'53.4402"W	12604.37	338.490	0.51	0.23	0.45	
18949.00	90.030	341.330	6042.08	12685.19	11815.52	-4651.80	1650291.27	14375394.21	39°35'10.5285"N	80°57'53.8255"W	12698.26	338.510	0.22	0.16	0.15	
19043.00	89.910	342.000	6042.13	12779.18	11904.75	-4681.37	1650261.71	14375483.40	39°35'11.4105"N	80°57'54.2027"W	12792.12	338.533	0.72	-0.13	0.71	
19056.00	89.850	341.500	6042.15	12792.18	11917.09	-4685.44	1650257.64	14375495.74	39°35'11.5325"N	80°57'54.2547"W	12805.10	338.537	3.87	-0.46	-3.85	

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Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

WELLPATH DATA (211 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
19081.00‡	89.850	341.500	6042.22	12817.18	11940.80	-4693.38	1650249.71	14375519.44	39°35'11.7669"N	80°57'54.3559"W	12830.06	338.543	0.00	0.00	0.00	Projected MD at TD: 19081'

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = **7.07**

Reference: IADC/SPE 59196

Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity
6.4-6.8	Longer with relatively tortuous well paths
> 6.8	Long tortuous profiles, high degree of difficulty

HOLE & CASING SECTIONS - Ref Wellbore: Hillee Unit 1H AWB Ref Wellpath: Hillee Unit 1H AWP Proj: 19081'

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	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.22	0.09
17 1/2in Open Hole	130.00	456.00	326.00	130.00	456.00	-0.22	0.09	-1.11	1.31
13 3/8in Casing Surface	30.00	437.00	407.00	30.00	437.00	0.00	0.00	-1.05	1.20
12 1/4in Open Hole	456.00	3114.00	2658.00	456.00	3079.85	-1.11	1.31	-366.08	-168.56
9 5/8in Casing Intermediate	30.00	3084.00	3054.00	30.00	3050.30	0.00	0.00	-361.37	-166.37
8 3/4in Open Hole	3114.00	5430.00	2316.00	3079.85	5388.04	-366.08	-168.56	-448.52	-193.41
8 1/2in Open Hole	5430.00	19081.00	13651.00	5388.04	6042.22	-448.52	-193.41	11940.80	-4693.38
5 1/2in Casing Production	30.00	19061.00	19031.00	30.00	6042.17	0.00	0.00	11921.83	-4687.03

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Actual Wellpath Report

Hillee Unit 1H AWP Proj: 19081'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Hillee Unit 1H BHL Rev-4	6053.98	11956.56	-4685.53	1650257.55	14375535.20	39°35'11.9226"N	80°57'54.2556"W	point
Hillee Unit 1H BHL Rev-3	6090.55	11956.56	-4685.53	1650257.55	14375535.20	39°35'11.9226"N	80°57'54.2556"W	point
Hillee Unit 1H BHL Rev-2	6121.13	11956.56	-4685.53	1650257.55	14375535.20	39°35'11.9226"N	80°57'54.2556"W	point
Hillee Unit 1H POE Rev-2	6143.00	40.28	-503.07	1654438.33	14363623.70	39°33'14.1317"N	80°57'0.9188"W	point
Hillee Unit 1H AZI Rev-3	6152.69	727.35	-842.98	1654098.55	14364310.50	39°33'20.9240"N	80°57'5.2536"W	point
Hillee Unit 1H LP Rev-3	6156.00	159.38	-575.97	1654365.46	14363742.75	39°33'15.3092"N	80°57'1.8486"W	point
Hillee Unit 1H POE Rev-1	6156.50	40.28	-503.07	1654438.33	14363623.70	39°33'14.1317"N	80°57'0.9188"W	point
Hillee Unit 1H AZI Rev-4	6157.52	727.35	-842.98	1654098.55	14364310.50	39°33'20.9240"N	80°57'5.2536"W	point

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Actual Wellpath Report

Hillee Unit 1H AWP Proj: 19081'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hillee Unit 1H
Field	Tyler	UWI	47-095-02948-0000
Facility	Shinn Pad	Wellbore	Hillee Unit 1H AWB
Slot	Slot J		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Hillee Unit 1H LP Rev-4	6163.00	159.38	-575.97	**1654365.46**	**14363742.75**	39°33'15.3092"N	80°57'1.8486"W	point
Hillee Unit 1H AZI Rev-2	6183.13	753.09	-851.80	**1654089.75**	**14364336.23**	39°33'21.1785"N	80°57'5.3659"W	point
Hillee Unit 1H LP Rev-2	6186.00	255.59	-626.53	**1654314.92**	**14363838.93**	39°33'16.2604"N	80°57'2.4935"W	point
Hillee Unit 1H BHL Rev-1	6196.50	11956.56	-4685.53	**1650257.55**	**14375535.20**	39°35'11.9226"N	80°57'54.2556"W	point
Hillee Unit 1H 50' L/R Hard Line	6500.00	6354.83	-2768.66	1652173.65	14369935.72	39°34'16.5514"N	80°57'29.8053"W	rectangle
	2D Rectangle: 11841.4 x 100.							

WELLPATH COMPOSITION - Ref Wellbore: Hillee Unit 1H AWB Ref Wellpath: Hillee Unit 1H AWP Proj: 19081'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	468.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-468')	Hillee Unit 1H AWB	2025-11-10
468.00	3037.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (468')(502'-3037')	Hillee Unit 1H AWB	2025-11-10
3037.00	5356.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3037')(3128'-5356')	Hillee Unit 1H AWB	2025-11-10
5356.00	19081.00	BH AutoTrak Curve/eXpress (2019) (HRGM, X Short spacing)	04_BH Lucida (x-Short) <8-1/2"> (5356')(5423'-19056')	Hillee Unit 1H AWB	2025-11-17

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REFERENCE WELLPATH IDENTIFICATION			
Operator	**ANTERO RESOURCES CORPORATION**	Well	**Hillee Unit 1H**
Field	**Tyler**	UWI	**47-095-02948-0000**
Facility	**Shinn Pad**	Wellbore	**Hillee Unit 1H AWB**
Slot	**Slot J**		

COMMENTS

Wellpath general comments

API: 47-095-02948-0000
BH Job #: 112868253
Rig: H&P 519
Duration: 11/10/2025-11/17/2025
Gyrodata MS Gyro <17-1/2"> (100'-468')
APS EM <12-1/4"> (468')(502'-3037')
APS EM <8-3/4"> (3037')(3128'-5356')
BH Lucida (x-Short) <8-1/2"> (5356')(5423'-19056')
Sycamore: 6052' MD
Middlesex: 6202' MD
Burkett: 6384' MD
Marcellus POE: 6483' MD
Projected MD at TD: 19081'

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