

ANTERO RESOURCES CORPORATION

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

Slot: Slot #05
 Well: Lancaster Unit 2H
 Wellbore: Lancaster Unit 2H PWB

Well reference wellpath is Lancaster Unit 2H PWP Rev-C-0	GM System: NAD83 / 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: 1040 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (at Slot #05): -1014.5 feet	Depths are in feet
Client wellpath IDs are referenced to each well's default MD datum	Created by: dmsl on 2020-04-29 Database: WVA_MPL_EasternUS_Dat

Location Information

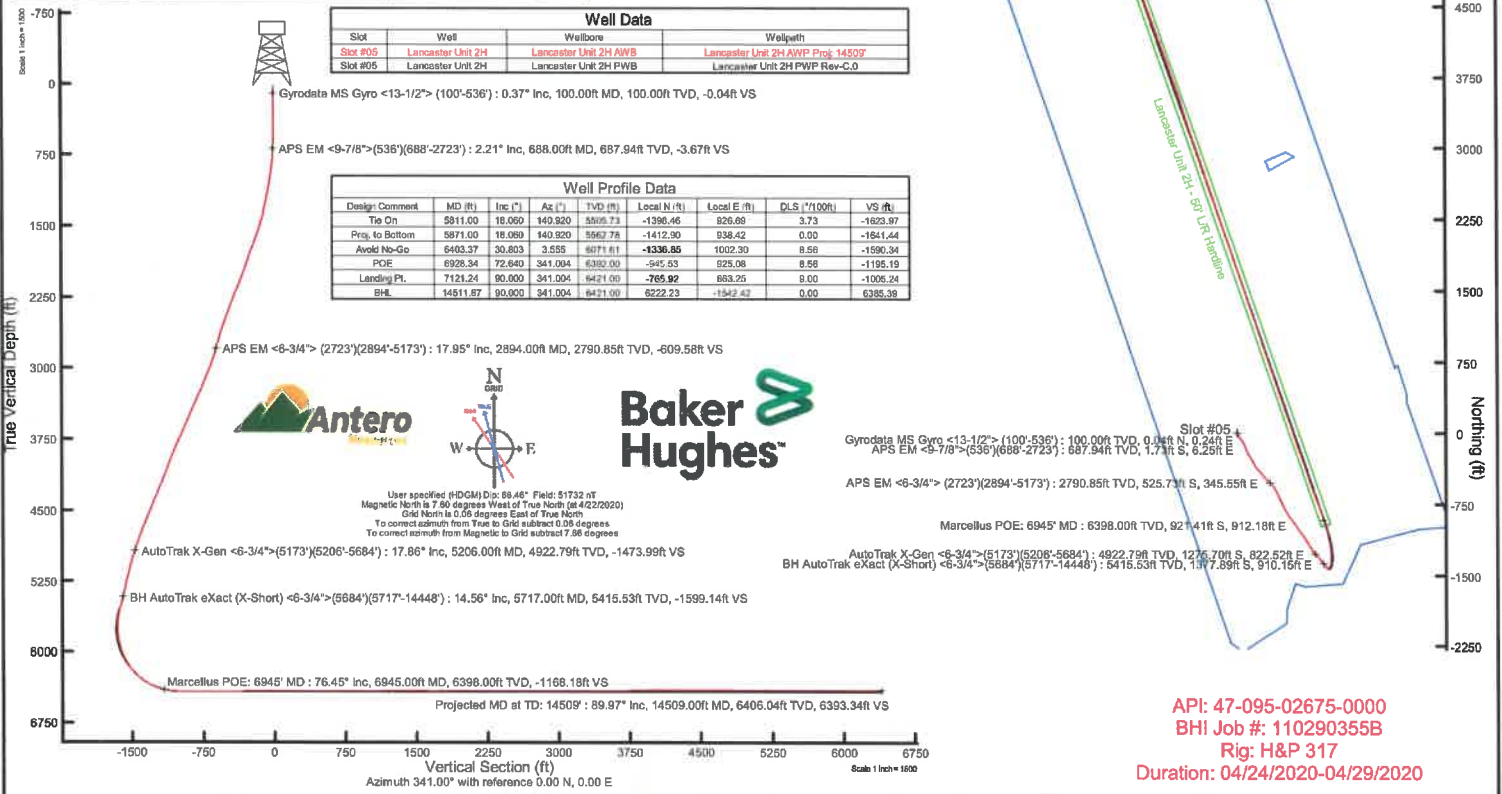
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Hogue Pad	1689140.410	14333604.260	39°29'17.1890"N	80°53'53.5810"W
Slot	Local E (ft)	Local N (ft)	Grid East (US ft)	Grid North (US ft)
Slot #05	-43.75	-40.89	1689161.281	14333647.997
H&P 317 (RKB) to Ground level (at Slot #05)			25.5ft	
Mean Sea Level to Ground level (at Slot #05)			-1014.5ft	
H&P 317 (RKB) to Mean Sea Level			1040ft	

Well Data

Slot	Well	Wellbore	Wellpath
Slot #05	Lancaster Unit 2H	Lancaster Unit 2H AWB	Lancaster Unit 2H AWP Proj: 14509
Slot #05	Lancaster Unit 2H	Lancaster Unit 2H PWB	Lancaster Unit 2H PWP Rev-C-0

Well Profile Data

Design Comment	MD (ft)	Inc. (")	Az. (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (1/100ft)	VS (ft)
Tie On	5811.00	18.060	140.520	5805.73	-1396.46	826.69	3.73	-1623.97
Rig. to Bottom	5871.00	18.069	140.520	5867.78	-1412.30	838.42	0.00	-1541.44
Avoid No-Go	6403.37	30.803	3.555	4871.81	-1336.86	1002.30	8.56	-1590.34
POE	6928.34	72.640	341.004	4382.00	-945.53	825.08	8.56	-1195.19
Landing Pt.	7121.24	90.000	341.004	6421.00	-765.92	683.25	9.00	-1006.24
BHL	14511.87	90.000	341.004	6421.00	6222.23	-1542.42	0.00	6385.38



API: 47-095-02675-0000
 BHI Job #: 110290355B
 Rig: H&P 317
 Duration: 04/24/2020-04/29/2020



Actual Wellpath Report
 Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lancaster Unit 2H
Field	Tyler	API	47-095-02675-0000
Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	4/29/2020 at 3:11:08 PM
Convergence at slot	0.06° 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	43.75	40.89	1669181.28	14333648.00	39°28'17.6300"N	80°53'53.0590"W
Facility Reference Pt			1669140.41	14333604.26	39°28'17.1980"N	80°53'53.5810"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	25.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1040.00ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #05)	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	341.00°



Actual Wellpath Report

Lancaster Unit 2H AWP Proj: 14509'
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Field	Tyler	API	47-095-02675-0000
Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

WELLPATH DATA (167 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)	(°)	(ft/100ft)	(%/100ft)	(%/100ft)	
0.00†	0.000	80.980	0.00	0.00	0.00	0.00	1669181.28	14333648.00	39°28'17.6300"N	80°53'53.0590"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	80.980	25.50	0.00	0.00	0.00	1669181.28	14333648.00	39°28'17.6300"N	80°53'53.0590"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.370	80.980	100.00	-0.04	0.04	0.24	1669181.52	14333648.03	39°28'17.6304"N	80°53'53.0560"W	0.24	80.980	0.50	0.50	0.00	Gyrodatal MS Gyro <13-1/2"> (100'-536')
150.00	0.320	80.200	150.00	-0.09	0.09	0.53	1669181.82	14333648.08	39°28'17.6309"N	80°53'53.0522"W	0.54	80.779	0.10	-0.10	-1.56	
200.00	0.400	86.950	200.00	-0.16	0.12	0.85	1669182.13	14333648.12	39°28'17.6312"N	80°53'53.0482"W	0.85	81.942	0.18	0.16	-13.50	
250.00	0.350	74.950	250.00	-0.22	0.17	1.17	1669182.45	14333648.17	39°28'17.6317"N	80°53'53.0441"W	1.18	81.779	0.19	-0.10	-24.00	
300.00	0.420	85.760	300.00	-0.28	0.22	1.50	1669182.78	14333648.22	39°28'17.6322"N	80°53'53.0399"W	1.51	81.573	0.20	0.14	21.62	
350.00	0.430	78.170	349.99	-0.35	0.27	1.86	1669183.14	14333648.27	39°28'17.6327"N	80°53'53.0352"W	1.88	81.642	0.11	0.02	-15.18	
400.00	0.520	88.800	399.99	-0.44	0.32	2.28	1669183.56	14333648.31	39°28'17.6331"N	80°53'53.0300"W	2.30	82.063	0.25	0.18	21.26	
450.00	0.580	80.270	449.99	-0.55	0.36	2.75	1669184.03	14333648.36	39°28'17.6336"N	80°53'53.0239"W	2.78	82.449	0.20	0.12	-17.06	
500.00	0.610	81.990	499.99	-0.64	0.44	3.26	1669184.54	14333648.44	39°28'17.6344"N	80°53'53.0174"W	3.29	82.245	0.07	0.06	3.44	
536.00	0.550	88.000	535.99	-0.73	0.48	3.63	1669184.91	14333648.47	39°28'17.6347"N	80°53'53.0127"W	3.66	82.503	0.24	-0.17	16.69	
688.00	2.210	139.680	687.94	-3.67	-1.73	6.25	1669187.53	14333646.27	39°28'17.6128"N	80°53'52.9793"W	6.49	105.482	1.26	1.09	34.00	APS EM <9-7/8">(536')(688'-2723')
778.00	5.050	157.550	777.75	-9.25	-6.72	8.89	1669190.17	14333641.28	39°28'17.5635"N	80°53'52.9458"W	11.14	127.077	3.36	3.18	19.66	
869.00	6.780	161.720	868.26	-18.61	-15.52	12.10	1669193.38	14333632.48	39°28'17.4765"N	80°53'52.9049"W	19.68	142.051	1.96	1.90	4.58	
981.00	8.920	157.780	959.40	-31.17	-27.28	16.50	1669197.78	14333620.73	39°28'17.3602"N	80°53'52.8489"W	31.88	148.826	2.40	2.33	-4.28	
1056.00	10.010	149.240	1053.11	-46.61	-41.20	23.51	1669204.78	14333606.82	39°28'17.2226"N	80°53'52.7598"W	47.43	150.283	1.87	1.15	-8.95	
1151.00	11.180	143.790	1146.49	-63.47	-55.71	33.17	1669214.43	14333592.31	39°28'17.0790"N	80°53'52.6369"W	64.83	149.232	1.60	1.21	-5.74	
1246.00	11.600	140.730	1239.63	-81.21	-70.52	44.64	1669225.91	14333577.50	39°28'16.9325"N	80°53'52.4907"W	83.46	147.864	0.79	0.46	-3.22	
1341.00	13.770	143.230	1332.30	-100.94	-86.97	57.46	1669238.72	14333561.06	39°28'16.7698"N	80°53'52.3278"W	104.24	146.549	2.36	2.28	2.63	
1435.00	15.530	152.150	1423.25	-124.04	-107.07	70.04	1669251.29	14333540.97	39°28'16.5710"N	80°53'52.1675"W	127.94	146.809	3.04	1.87	9.45	
1530.00	18.010	159.870	1514.22	-151.29	-132.11	81.04	1669262.28	14333515.94	39°28'16.3234"N	80°53'52.0276"W	154.98	148.474	3.50	2.61	8.13	
1625.00	19.860	159.060	1604.07	-182.11	-160.97	91.86	1669273.10	14333487.09	39°28'16.0380"N	80°53'51.8900"W	185.34	150.288	1.97	1.95	-0.85	
1720.00	20.240	155.800	1693.32	-214.60	-191.03	104.36	1669285.60	14333457.04	39°28'15.7408"N	80°53'51.7310"W	217.68	151.352	1.24	0.40	-3.43	
1815.00	19.950	150.460	1782.54	-246.90	-220.12	119.09	1669300.32	14333427.96	39°28'15.4531"N	80°53'51.5436"W	250.27	151.586	1.95	-0.31	-5.62	
1909.00	18.980	151.520	1871.17	-277.75	-247.51	134.29	1669315.51	14333400.59	39°28'15.1822"N	80°53'51.3502"W	281.59	151.518	1.10	-1.03	1.13	
2004.00	20.260	152.500	1960.65	-309.26	-275.69	149.23	1669330.45	14333372.42	39°28'14.9036"N	80°53'51.1600"W	313.49	151.573	1.40	1.35	1.05	
2099.00	22.110	151.120	2049.23	-343.14	-305.94	165.45	1669346.66	14333342.18	39°28'14.6044"N	80°53'50.9537"W	347.82	151.596	2.02	1.95	-1.52	
2194.00	23.520	147.680	2136.80	-379.20	-337.62	184.22	1669365.43	14333310.51	39°28'14.2911"N	80°53'50.7148"W	384.61	151.361	2.04	1.48	-3.62	
2289.00	23.090	143.210	2224.05	-415.39	-368.56	205.51	1669386.71	14333279.58	39°28'13.9851"N	80°53'50.4437"W	421.99	150.856	1.92	-0.45	-4.71	



Actual Wellpath Report

Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lancaster Unit 2H
Field	Tyler	API	47-095-02675-0000
Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

WELLPATH DATA (167 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
2384.00	21.780	139.390	2311.87	-449.52	-396.86	228.14	1669409.33	14333251.29	39°28'13.7051"N	80°53'50.1556"W	457.77	150.107	2.06	-1.38	-4.02	
2479.00	22.500	138.860	2399.86	-482.74	-423.93	251.58	1669432.76	14333224.23	39°28'13.4373"N	80°53'49.6572"W	492.96	149.314	0.79	0.76	-0.56	
2573.00	21.240	139.110	2487.09	-515.20	-450.35	274.56	1669455.73	14333197.83	39°28'13.1759"N	80°53'49.5646"W	527.44	148.632	1.34	-1.34	0.27	
2668.00	19.220	137.840	2576.23	-545.55	-474.95	296.32	1669477.48	14333173.23	39°28'12.9325"N	80°53'49.2874"W	559.81	148.040	2.18	-2.13	-1.34	
2723.00	18.290	138.960	2628.31	-561.87	-488.18	308.06	1669489.22	14333160.02	39°28'12.8017"N	80°53'49.1379"W	577.25	147.746	1.82	-1.65	2.07	
2894.00	17.950	131.040	2790.85	-609.58	-525.73	345.55	1669526.69	14333122.48	39°28'12.4301"N	80°53'48.6604"W	629.12	146.684	1.46	-0.20	-4.64	APS EM <6-3/4"> (2723)(2894-5173)
2988.00	19.330	137.360	2879.93	-636.39	-546.68	367.02	1669548.15	14333101.53	39°28'12.2228"N	80°53'48.3870"W	658.46	146.125	2.60	1.47	6.72	
3090.00	22.150	147.530	2975.34	-670.57	-575.34	388.79	1669569.91	14333072.89	39°28'11.9393"N	80°53'48.1098"W	694.39	145.951	4.48	2.76	9.97	
3185.00	23.090	149.470	3063.03	-706.24	-606.50	407.86	1669588.98	14333041.74	39°28'11.6311"N	80°53'47.8670"W	730.88	146.079	1.26	0.93	2.04	
3278.00	22.490	157.590	3148.79	-741.88	-638.68	423.91	1669605.02	14333009.80	39°28'11.3131"N	80°53'47.6628"W	768.54	146.425	3.44	-0.63	8.73	
3373.00	22.980	154.180	3236.42	-778.43	-672.15	438.92	1669620.02	14332976.12	39°28'10.9819"N	80°53'47.4720"W	802.77	146.855	1.48	0.52	-3.59	
3468.00	23.960	156.220	3323.56	-816.07	-706.50	454.77	1669635.87	14332941.78	39°28'10.6423"N	80°53'47.2703"W	840.21	147.230	1.34	1.03	2.15	
3562.00	25.240	153.050	3409.03	-854.94	-741.83	471.55	1669652.65	14332906.46	39°28'10.2929"N	80°53'47.0568"W	879.02	147.557	1.98	1.35	-3.37	
3657.00	23.470	150.460	3495.57	-893.60	-776.35	490.06	1669671.15	14332871.96	39°28'9.9515"N	80°53'46.8213"W	918.08	147.738	2.18	-1.88	-2.73	
3752.00	24.060	152.050	3582.52	-931.33	-809.91	508.47	1669689.54	14332838.41	39°28'9.6198"N	80°53'46.5871"W	956.29	147.879	0.92	0.62	1.67	
3847.00	24.100	148.390	3669.26	-969.39	-843.54	527.71	1669708.78	14332804.79	39°28'9.2870"N	80°53'46.3423"W	995.01	147.970	1.57	0.04	-3.85	
3941.00	25.870	147.670	3754.46	-1008.08	-877.22	548.74	1669729.80	14332771.13	39°28'8.9539"N	80°53'46.0746"W	1034.71	147.972	1.91	1.88	-0.77	
4036.00	23.930	142.790	3840.63	-1046.55	-910.08	571.48	1669752.53	14332738.28	39°28'8.6289"N	80°53'45.7851"W	1074.63	147.874	2.97	-2.04	-5.14	
4131.00	22.620	140.860	3927.90	-1082.01	-939.60	594.66	1669775.71	14332708.78	39°28'8.3369"N	80°53'45.4899"W	1111.97	147.671	1.60	-1.38	-2.03	
4225.00	21.260	146.150	4015.10	-1115.46	-967.77	615.57	1669796.80	14332680.61	39°28'8.0581"N	80°53'45.2238"W	1149.96	147.541	2.55	-1.45	5.63	
4320.00	21.840	147.740	4103.46	-1149.31	-997.02	634.60	1669815.62	14332651.37	39°28'7.7689"N	80°53'44.9816"W	1181.85	147.524	0.87	0.81	1.67	
4415.00	22.930	146.340	4191.30	-1184.41	-1027.37	654.29	1669835.30	14332621.04	39°28'7.4687"N	80°53'44.7310"W	1218.02	147.509	1.28	1.15	-1.47	
4509.00	23.680	142.220	4277.63	-1220.00	-1057.53	676.00	1669857.01	14332590.89	39°28'7.1703"N	80°53'44.4545"W	1255.13	147.412	1.91	0.80	-4.38	
4604.00	24.690	144.670	4364.30	-1257.11	-1088.80	699.16	1669880.16	14332559.63	39°28'6.8610"N	80°53'44.1597"W	1293.95	147.294	1.50	1.05	2.58	
4699.00	22.400	147.940	4451.38	-1293.79	-1120.33	720.25	1669901.24	14332528.11	39°28'6.5491"N	80°53'43.8913"W	1331.88	147.263	2.77	-2.41	3.44	
4794.00	22.200	149.710	4539.28	-1329.02	-1151.17	738.91	1669919.89	14332497.29	39°28'6.2441"N	80°53'43.6538"W	1367.91	147.305	0.74	-0.21	1.85	
4889.00	22.580	149.510	4627.12	-1364.48	-1182.37	757.21	1669938.19	14332466.10	39°28'5.9356"N	80°53'43.4209"W	1404.05	147.384	0.39	0.35	-0.21	
4983.00	20.500	147.890	4714.56	-1398.18	-1211.86	775.11	1669956.08	14332436.63	39°28'5.6440"N	80°53'43.1931"W	1438.54	147.397	2.28	-2.19	-1.72	
5078.00	22.120	146.030	4803.06	-1431.67	-1240.78	793.95	1669974.91	14332407.71	39°28'5.3579"N	80°53'42.9533"W	1473.05	147.386	1.85	1.71	-1.96	
5173.00	20.400	138.180	4891.61	-1464.22	-1267.96	814.99	1669995.94	14332380.54	39°28'5.0890"N	80°53'42.6658"W	1507.29	147.268	3.50	-1.81	-8.26	



Actual Wellpath Report

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Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

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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 [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [°/100ft]	Comments
5208.00	17.860	133.014	4922.79	1473.99	1275.70	822.52	1670003.48	14332372.81	39°28'5.0124"N	80°53'42.5895"W	1517.88	147.188	9.25	-7.70	-15.87	AutoTrak X-Gen <6-3/4">(5173')(5206'-5684')
5305.00	17.330	137.380	5017.16	1500.90	1296.91	843.61	1670024.55	14332351.61	39°28'4.8026"N	80°53'42.3209"W	1547.14	146.957	1.44	-0.54	4.41	
5400.00	15.540	140.760	5108.28	1525.81	1317.18	861.24	1670042.18	14332331.35	39°28'4.6020"N	80°53'42.0964"W	1573.75	146.821	2.14	-1.88	3.58	
5495.00	14.230	143.190	5200.09	1548.87	1336.38	876.29	1670057.22	14332312.15	39°28'4.4120"N	80°53'41.9048"W	1598.06	146.746	1.53	-1.38	2.58	
5590.00	13.970	139.970	5292.23	1570.69	1354.57	890.66	1670071.59	14332294.03	39°28'4.2327"N	80°53'41.7218"W	1621.11	146.673	0.87	-0.27	-3.39	
5684.00	13.610	139.960	5383.52	1591.60	1371.67	905.07	1670085.99	14332276.88	39°28'4.0630"N	80°53'41.5383"W	1643.36	146.582	0.38	-0.38	-0.01	
5717.00	14.560	141.550	5415.53	1599.14	1377.89	910.15	1670091.07	14332270.66	39°28'4.0014"N	80°53'41.4737"W	1651.35	146.554	3.11	2.85	4.82	BH AutoTrak eXact (X-Short) <6-3/4">(5684')(5717'-14488')
5811.00	18.060	140.920	5505.73	1623.97	1398.46	926.69	1670107.60	14332250.10	39°28'3.7979"N	80°53'41.2631"W	1677.63	146.470	3.73	3.72	-0.67	
5906.00	12.030	127.380	5597.46	1646.07	1415.92	943.86	1670124.76	14332232.64	39°28'3.6251"N	80°53'41.0444"W	1701.68	146.312	7.31	-6.35	-14.25	
6001.00	8.280	98.460	5691.01	1657.48	1422.95	958.51	1670139.40	14332225.82	39°28'3.5556"N	80°53'40.8577"W	1715.67	146.035	6.56	-3.95	-30.44	
6096.00	9.720	45.600	5784.99	1657.20	1418.33	971.02	1670151.92	14332220.23	39°28'3.6010"N	80°53'40.6981"W	1718.88	145.604	8.51	1.52	-55.64	
6190.00	13.420	16.480	5877.14	1644.89	1402.30	979.80	1670160.69	14332246.26	39°28'3.7593"N	80°53'40.5860"W	1710.69	145.058	7.24	3.94	-30.98	
6285.00	19.870	8.430	5968.13	1621.66	1375.73	985.30	1670166.19	14332272.82	39°28'4.0219"N	80°53'40.5154"W	1692.17	144.390	7.19	6.75	-8.47	
6380.00	26.570	5.230	6055.39	1587.82	1338.56	989.61	1670170.49	14332309.98	39°28'4.3892"N	80°53'40.4599"W	1664.65	143.524	7.17	7.05	-3.37	
6475.00	34.800	357.540	6137.35	1542.83	1290.71	990.40	1670171.29	14332357.81	39°28'4.8822"N	80°53'40.4491"W	1626.91	142.600	8.90	7.93	-6.09	
6570.00	42.730	353.290	6211.73	1485.69	1231.97	985.48	1670166.37	14332416.52	39°28'5.4427"N	80°53'40.5109"W	1577.63	141.343	9.50	9.08	-4.47	
6624.00	47.743	350.642	6249.75	1448.06	1194.03	980.09	1670160.98	14332454.45	39°28'5.8178"N	80°53'40.5791"W	1544.76	140.620	9.91	9.28	-4.90	Middlesex: 6624' MD
6664.00	51.490	348.940	6275.66	1417.96	1164.05	974.68	1670155.57	14332484.41	39°28'6.1141"N	80°53'40.6477"W	1518.23	140.060	9.91	9.37	-4.25	
6711.00	56.460	348.210	6303.29	1380.29	1126.81	967.14	1670148.04	14332521.64	39°28'6.4823"N	80°53'40.7432"W	1484.95	139.360	10.65	10.57	-1.55	
6759.00	60.250	346.130	6328.47	1339.67	1086.98	958.06	1670138.95	14332561.45	39°28'6.8761"N	80°53'40.8585"W	1448.93	138.607	8.71	7.90	-4.33	
6785.00	62.316	346.113	6340.97	1316.96	1064.84	952.59	1670133.49	14332583.58	39°28'7.0949"N	80°53'40.9279"W	1428.75	138.185	7.96	7.96	-0.06	Burkett: 6785' MD
6806.00	63.990	346.100	6350.45	1298.30	1046.66	948.09	1670128.99	14332601.76	39°28'7.2747"N	80°53'40.9850"W	1412.22	137.829	7.96	7.96	-0.06	
6834.00	66.187	345.014	6362.24	1272.99	1022.07	941.75	1670122.66	14332626.34	39°28'7.5178"N	80°53'41.0654"W	1389.79	137.342	8.60	7.84	-3.88	Tully: 6834' MD
6854.00	67.760	344.260	6370.06	1254.62	1004.32	936.88	1670117.78	14332644.08	39°28'7.6933"N	80°53'41.1273"W	1373.46	136.990	8.60	7.87	-3.77	
6945.00	76.448	342.600	6398.00	1168.18	921.41	912.18	1670093.09	14332726.96	39°28'8.5130"N	80°53'41.4411"W	1296.56	135.289	9.70	9.55	-1.82	Marcellus POE: 6945' MD
6949.00	76.830	342.530	6398.93	1164.29	917.70	911.01	1670091.93	14332730.67	39°28'8.5497"N	80°53'41.4559"W	1293.10	135.210	9.70	9.55	-1.74	
7044.00	84.570	341.620	6414.27	1070.63	828.57	882.17	1670063.10	14332819.76	39°28'9.4309"N	80°53'41.8223"W	1210.27	133.205	8.20	8.15	-0.96	
7139.00	89.910	339.000	6418.84	975.79	739.27	850.21	1670031.15	14332909.03	39°28'10.3139"N	80°53'42.2285"W	1126.66	131.007	6.26	5.62	-2.76	
7233.00	89.980	339.070	6419.01	881.85	651.49	816.58	1669997.53	14332996.77	39°28'11.1818"N	80°53'42.6561"W	1044.62	128.584	0.08	-0.03	0.07	
7328.00	89.950	340.540	6419.24	6786.87	562.33	783.78	1669964.75	14333085.89	39°28'12.0634"N	80°53'43.0729"W	964.64	125.658	1.55	-0.03	1.55	



Actual Wellpath Report

Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Lancaster Unit 2H
Field	Tyler		API	47-095-02675-0000
Facility	Hogue Pad		Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05			

WELLPATH DATA (167 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
7423.00	89.910	340.990	6419.44	-891.87	-472.64	752.48	1669933.46	14333175.55	39°28'12.9502"N	80°53'43.4707"W	888.60	122.133	0.48	0.06	0.47	
7518.00	90.890	341.400	6418.77	-598.88	-382.71	721.86	1669902.85	14333265.44	39°28'13.8383"N	80°53'43.8598"W	817.04	117.931	1.12	1.03	0.43	
7613.00	90.520	341.140	6417.61	-501.88	-292.75	691.36	1669872.36	14333355.37	39°28'14.7288"N	80°53'44.2474"W	750.79	112.950	0.48	-0.39	-0.27	
7708.00	90.120	340.790	6417.07	-406.89	-202.85	660.38	1669841.39	14333445.13	39°28'15.6167"N	80°53'44.6412"W	690.86	107.083	0.56	-0.42	-0.37	
7803.00	90.430	340.950	6416.82	-311.89	-113.19	629.24	1669810.27	14333534.85	39°28'16.5042"N	80°53'45.0368"W	639.34	100.198	0.37	0.33	0.17	
7898.00	90.550	341.610	6415.81	-216.89	-23.22	598.76	1669779.80	14333624.78	39°28'17.3937"N	80°53'45.4243"W	599.21	92.221	0.71	0.13	0.69	
7992.00	90.460	341.260	6414.98	-122.90	65.88	568.83	1669749.88	14333713.85	39°28'18.2747"N	80°53'45.8046"W	572.63	83.393	0.38	-0.10	-0.37	
8087.00	89.940	340.340	6414.65	-27.90	155.60	537.59	1669718.65	14333803.53	39°28'19.1618"N	80°53'46.2016"W	559.65	73.858	1.11	-0.55	-0.97	
8182.00	90.400	341.230	6414.38	67.10	245.30	506.32	1669687.40	14333893.20	39°28'20.0487"N	80°53'46.5990"W	562.61	64.151	1.05	0.48	0.94	
8277.00	90.340	341.260	6413.75	162.09	335.28	475.78	1669656.87	14333983.12	39°28'20.9381"N	80°53'46.9872"W	582.03	54.830	0.07	-0.08	0.03	
8372.00	90.000	341.250	6413.47	257.09	425.22	445.25	1669626.35	14334073.04	39°28'21.8276"N	80°53'47.3752"W	615.68	46.318	0.36	-0.36	-0.01	
8466.00	90.090	341.170	6413.40	351.09	514.21	414.97	1669596.09	14334162.00	39°28'22.7074"N	80°53'47.7599"W	660.76	38.904	0.13	0.10	-0.09	
8561.00	90.150	341.350	6413.20	448.09	604.17	384.45	1669565.58	14334251.93	39°28'23.5969"N	80°53'48.1478"W	716.12	32.470	0.20	0.06	0.19	
8656.00	90.120	341.320	6412.97	541.09	694.17	354.05	1669535.19	14334341.89	39°28'24.4868"N	80°53'48.5342"W	779.25	27.023	0.04	-0.03	-0.03	
8750.00	90.150	341.340	6412.75	635.09	783.23	323.96	1669505.11	14334430.91	39°28'25.3673"N	80°53'48.9166"W	847.58	22.471	0.04	0.03	0.02	
8845.00	90.150	341.390	6412.50	730.08	873.25	293.60	1669474.76	14334520.89	39°28'26.2573"N	80°53'49.3024"W	921.28	18.584	0.05	0.00	0.09	
8940.00	90.060	341.340	6412.33	825.08	963.27	263.24	1669444.42	14334610.88	39°28'27.1474"N	80°53'49.6882"W	998.59	15.285	0.11	-0.09	-0.09	
9035.00	90.060	341.370	6412.23	920.08	1053.28	232.87	1669414.06	14334700.85	39°28'28.0374"N	80°53'50.0742"W	1078.72	12.467	0.03	0.00	0.03	
9129.00	90.180	341.310	6412.03	1014.08	1142.34	202.80	1669384.00	14334789.88	39°28'28.9179"N	80°53'50.4564"W	1160.20	10.067	0.14	0.13	-0.06	
9224.00	90.090	341.150	6411.81	1109.08	1232.29	172.23	1669353.44	14334879.79	39°28'29.8072"N	80°53'50.8449"W	1244.26	7.956	0.19	-0.00	-0.17	
9319.00	90.000	341.220	6411.73	1204.08	1322.21	141.59	1669322.81	14334969.68	39°28'30.6963"N	80°53'51.2343"W	1329.77	6.112	0.12	-0.09	0.07	
9414.00	90.180	341.280	6411.58	1299.07	1412.17	111.05	1669292.29	14335059.60	39°28'31.5858"N	80°53'51.6224"W	1416.53	4.497	0.20	0.19	0.06	
9508.00	90.250	341.300	6411.23	1393.07	1501.20	80.90	1669262.15	14335148.59	39°28'32.4660"N	80°53'52.0057"W	1503.38	3.085	0.08	0.07	0.02	
9603.00	90.180	341.210	6410.87	1488.07	1591.16	50.37	1669231.63	14335238.52	39°28'33.3555"N	80°53'52.3937"W	1591.96	1.813	0.12	-0.07	-0.09	
9698.00	89.260	341.350	6411.34	1583.07	1681.33	19.88	1669201.16	14335328.45	39°28'34.2451"N	80°53'52.7812"W	1681.25	0.678	0.98	-0.97	0.19	
9793.00	90.960	341.460	6411.90	1678.06	1771.17	-10.41	1669170.88	14335418.46	39°28'35.1353"N	80°53'53.1662"W	1771.20	359.563	0.85	0.84	0.12	
9888.00	90.220	341.180	6411.67	1773.06	1861.17	-40.84	1669140.46	14335508.42	39°28'36.0251"N	80°53'53.5529"W	1861.61	358.743	0.34	0.17	-0.29	
9982.00	90.460	340.740	6411.11	1867.06	1950.02	-71.50	1669109.81	14335597.24	39°28'36.9036"N	80°53'53.9427"W	1951.33	357.900	0.53	0.26	-0.47	
10077.00	89.910	341.350	6410.81	1962.06	2039.87	-102.36	1669078.96	14335687.05	39°28'37.7920"N	80°53'54.3349"W	2042.43	357.127	0.86	-0.58	0.64	
10172.00	90.060	341.260	6410.83	2057.06	2129.86	-132.81	1669048.52	14335777.00	39°28'38.6817"N	80°53'54.7219"W	2133.99	356.432	0.18	0.16	-0.09	



Actual Wellpath Report
Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Lancaster Unit 2H
Field	Tyler		API	47-095-02675-0000
Facility	Hogus Pad		Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05			

WELLPATH DATA (167 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
10266.00	90.030	341.330	6410.78	2151.06	2218.89	-162.95	1669018.39	14335866.00	39°28'39.5620"N	80°53'55.1051"W	2224.87	355.800	0.08	-0.03	0.07	
10361.00	90.280	341.280	6410.50	2246.05	2308.88	-193.40	1668987.95	14335955.95	39°28'40.4517"N	80°53'55.4921"W	2316.96	355.212	0.27	0.26	-0.05	
10456.00	90.180	341.310	6410.12	2341.05	2398.86	-223.87	1668957.50	14336045.89	39°28'41.3414"N	80°53'55.8794"W	2409.28	354.668	0.11	-0.11	0.03	
10551.00	90.120	341.200	6409.87	2436.05	2488.82	-254.40	1668926.98	14336135.82	39°28'42.2308"N	80°53'56.2674"W	2501.79	354.164	0.13	-0.06	-0.12	
10646.00	90.990	341.540	6408.95	2531.04	2578.84	-284.75	1668896.65	14336225.80	39°28'43.1208"N	80°53'56.6511"W	2594.51	353.699	0.98	0.92	0.36	
10741.00	89.750	340.880	6408.34	2626.04	2668.77	-315.34	1668866.06	14336315.70	39°28'44.0100"N	80°53'57.0421"W	2687.34	353.261	1.48	-1.31	-0.69	
10836.00	90.400	341.680	6408.21	2721.04	2758.74	-345.83	1668835.59	14336405.63	39°28'44.8996"N	80°53'57.4296"W	2780.34	352.855	1.09	0.68	0.84	
10931.00	90.340	341.570	6407.60	2816.03	2848.90	-375.78	1668805.65	14336495.75	39°28'45.7910"N	80°53'57.8102"W	2873.57	352.486	1.13	-0.06	-0.12	
11025.00	89.780	340.800	6407.50	2910.03	2937.87	-406.10	1668775.35	14336584.69	39°28'46.6707"N	80°53'58.1956"W	2966.81	352.130	1.01	-0.60	-0.82	
11110.00	90.150	341.110	6407.56	3005.03	3027.67	-437.10	1668744.36	14336674.46	39°28'47.5585"N	80°53'58.5896"W	3059.06	351.785	0.51	0.39	0.33	
11214.00	89.970	341.370	6407.46	3099.02	3116.68	-467.33	1668714.14	14336763.43	39°28'48.4386"N	80°53'58.9739"W	3151.52	351.472	0.34	-0.19	0.28	
11309.00	90.120	341.700	6407.39	3194.02	3206.79	-497.42	1668684.07	14336853.50	39°28'49.3295"N	80°53'59.3564"W	3245.14	351.183	0.38	0.16	0.35	
11404.00	89.850	342.190	6407.41	3289.01	3297.11	-526.86	1668654.63	14336943.78	39°28'50.2225"N	80°53'59.7306"W	3338.94	350.921	0.59	-0.28	0.52	
11498.00	89.110	344.080	6408.26	3382.93	3387.06	-554.13	1668627.38	14337033.70	39°28'51.1118"N	80°54'0.0771"W	3432.09	350.709	2.16	-0.79	2.01	
11593.00	90.250	343.550	6408.79	3477.81	3478.29	-580.61	1668600.91	14337124.89	39°28'52.0137"N	80°54'0.4135"W	3526.42	350.523	1.32	1.20	-0.56	
11688.00	90.090	340.260	6408.51	3572.79	3568.58	-610.11	1668571.42	14337215.15	39°28'52.9064"N	80°54'0.7884"W	3620.36	350.298	3.47	-0.17	-3.46	
11783.00	90.280	340.300	6408.21	3667.78	3658.01	-642.16	1668539.37	14337304.54	39°28'53.7906"N	80°54'1.1960"W	3713.95	350.043	0.20	0.20	0.04	
11878.00	93.230	341.920	6405.30	3762.72	3747.84	-672.90	1668508.65	14337394.33	39°28'54.6788"N	80°54'1.5867"W	3807.76	349.821	3.54	3.11	1.71	
11972.00	90.370	340.420	6402.34	3856.86	3836.75	-703.22	1668478.34	14337483.21	39°28'55.5579"N	80°54'1.9722"W	3900.66	349.614	3.44	-3.04	-1.60	
12066.00	90.400	341.040	6401.71	3950.88	3925.48	-734.24	1668447.33	14337571.90	39°28'56.4352"N	80°54'2.3666"W	3993.56	349.405	0.66	0.03	0.66	
12161.00	90.460	340.490	6401.00	4045.66	4015.17	-765.54	1668416.05	14337661.56	39°28'57.3220"N	80°54'2.7645"W	4087.50	349.205	0.58	0.06	-0.58	
12255.00	89.380	340.130	6401.13	4139.65	4103.68	-797.21	1668384.39	14337750.03	39°28'58.1970"N	80°54'3.1671"W	4180.39	349.006	1.21	-1.15	-0.38	
12350.00	90.180	339.910	6401.49	4234.63	4192.96	-829.67	1668351.94	14337839.27	39°28'59.0798"N	80°54'3.5799"W	4274.25	348.807	0.87	0.84	-0.23	
12445.00	91.110	340.060	6400.43	4329.61	4282.21	-862.18	1668319.44	14337928.49	39°28'59.9623"N	80°54'3.9933"W	4368.15	348.616	0.99	0.98	0.16	
12540.00	90.400	340.420	6399.17	4424.59	4371.61	-894.30	1668287.34	14338017.85	39°29'0.8482"N	80°54'4.4016"W	4462.15	348.439	0.84	-0.75	0.38	
12635.00	89.880	340.390	6398.94	4519.59	4461.11	-926.16	1668255.49	14338107.32	39°29'1.7311"N	80°54'4.8067"W	4556.23	348.272	0.55	-0.55	-0.03	
12729.00	90.060	340.160	6398.99	4613.58	4549.59	-957.88	1668223.78	14338195.76	39°29'2.6059"N	80°54'5.2101"W	4649.34	348.110	0.31	0.19	-0.24	
12824.00	88.950	340.250	6399.81	4708.57	4638.97	-990.06	1668191.62	14338285.11	39°29'3.4897"N	80°54'5.6191"W	4743.45	347.953	1.17	-1.17	0.09	
12919.00	88.950	340.260	6401.55	4803.54	4728.38	-1022.13	1668159.56	14338374.48	39°29'4.3736"N	80°54'6.0269"W	4837.59	347.802	0.03	0.00	0.03	
13013.00	89.080	340.220	6403.17	4897.52	4816.84	-1053.89	1668127.82	14338462.80	39°29'5.2482"N	80°54'6.4306"W	4930.78	347.659	0.15	0.14	-0.06	



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Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Lancaster Unit 2H
Field	Tyler		API	47-095-02675-0000
Facility	Hogue Pad		Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05			

WELLPATH DATA (167 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
13108.00	88.610	341.100	6405.08	4992.50	4908.46	-1085.34	1668096.37	14338552.48	39°29'6.1343"N	80°54'8.8307"W	5025.06	347.527	1.05	-0.45	0.93	
13203.00	90.280	340.280	6406.00	5087.49	4996.10	-1116.75	1668064.97	14338642.10	39°29'7.0207"N	80°54'7.2301"W	5119.39	347.400	1.96	1.76	-0.86	
13298.00	90.280	340.270	6405.54	5182.48	5085.53	-1148.82	1668032.92	14338731.49	39°29'7.9048"N	80°54'7.6378"W	5213.67	347.271	0.01	0.00	-0.01	
13392.00	90.400	340.010	6404.98	5276.47	5173.94	-1180.75	1668001.00	14338819.86	39°29'8.7790"N	80°54'8.0438"W	5306.96	347.145	0.30	0.13	-0.28	
13487.00	89.940	340.330	6404.70	5371.46	5263.30	-1212.95	1667968.79	14338909.19	39°29'9.6625"N	80°54'8.4536"W	5401.26	347.022	0.59	-0.48	0.34	
13582.00	90.340	341.430	6404.47	5466.45	5353.06	-1244.09	1667937.69	14338998.91	39°29'10.5500"N	80°54'8.8492"W	5495.73	346.916	1.23	0.42	1.16	
13677.00	90.220	340.480	6404.00	5561.45	5442.86	-1275.09	1667906.70	14339088.67	39°29'11.4378"N	80°54'9.2434"W	5590.22	346.815	1.01	-0.13	-1.00	
13771.00	89.720	340.300	6404.05	5655.45	5531.40	-1306.64	1667875.16	14339177.18	39°29'12.3133"N	80°54'9.6445"W	5683.64	346.709	0.57	-0.53	-0.19	
13866.00	89.970	340.240	6404.31	5750.44	5620.83	-1338.71	1667843.11	14339266.57	39°29'13.1974"N	80°54'10.0523"W	5778.05	346.603	0.27	0.26	-0.06	
13960.00	89.380	339.160	6404.84	5844.41	5708.99	-1371.32	1667810.51	14339354.69	39°29'14.0691"N	80°54'10.4670"W	5871.37	346.493	1.31	-0.83	-1.15	
14055.00	89.970	340.000	6405.38	5939.38	5798.01	-1404.47	1667777.38	14339443.68	39°29'14.9493"N	80°54'10.8886"W	5965.69	346.383	1.08	0.62	0.88	
14150.00	89.970	340.290	6405.43	6034.37	5887.37	-1436.73	1667745.12	14339533.00	39°29'15.8328"N	80°54'11.2989"W	6060.14	346.286	0.31	0.00	0.31	
14244.00	89.880	340.300	6405.55	6128.38	5975.88	-1468.43	1667713.44	14339621.46	39°29'16.7078"N	80°54'11.7019"W	6153.63	346.194	0.10	-0.10	0.01	
14339.00	89.820	340.240	6405.80	6223.35	6065.28	-1500.50	1667681.39	14339710.85	39°29'17.5919"N	80°54'12.1097"W	6248.13	346.105	0.09	-0.06	-0.06	
14434.00	89.940	340.200	6406.00	6318.34	6154.68	-1532.65	1667649.25	14339800.21	39°29'18.4758"N	80°54'12.5185"W	6342.64	346.017	0.13	0.13	-0.04	
14448.00	89.970	340.340	6406.01	6332.34	6167.86	-1537.37	1667644.52	14339813.38	39°29'18.6061"N	80°54'12.5787"W	6356.57	346.004	1.02	0.21	1.00	
14509.00†	89.970	340.340	6406.04	6393.34	6225.30	-1557.90	1667624.01	14339870.80	39°29'19.1740"N	80°54'12.8396"W	6417.27	345.950	0.00	0.00	0.00	Projected MD at TD: 14509'



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 Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lancaster Unit 2H
Field	Tyler	API	47-095-02675-0000
Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

HOLE & CASING SECTIONS - Ref Wellbore: Lancaster Unit 2H AWB Ref Wellpath: Lancaster Unit 2H AWP Proj: 14509'									
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)
16in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.04	0.27
13.5in Open Hole	105.50	593.60	488.10	105.50	593.58	0.04	0.27	0.17	4.35
10.75in Casing Surface	25.50	593.60	568.10	25.50	593.58	0.00	0.00	0.17	4.35
9.875in Open Hole	593.60	2796.00	2202.40	593.58	2697.66	0.17	4.35	-504.93	323.51
7.625in Casing Intermediate	25.50	2779.80	2754.10	25.50	2682.07	0.00	0.00	-501.26	319.97
6.75in Open Hole	2796.00	14509.00	11713.00	2697.66	6406.04	-504.93	323.51	6225.30	-1557.90
5in Casing Production	25.50	14509.00	14483.50	25.50	6406.04	0.00	0.00	6225.30	-1557.90



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 Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Lancaster Unit 2H
Field	Tyler		API	47-095-02675-0000
Facility	Hogue Pad		Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05			

TARGETS								
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Lancaster Unit 2H - POE - Rev-2	6392.00	-970.26	933.59	1670114.50	14332678.13	39°28'8.0300"N	80°53'41.1667"W	point
Lancaster Unit 2H - POE - Rev-3	6392.00	-945.53	925.08	1670105.99	14332702.85	39°28'8.2745"N	80°53'41.2769"W	point
Lancaster Unit 2H - BHL - Rev-2	6421.00	6882.56	-1769.74	1667412.25	14340527.80	39°29'25.6722"N	80°54'15.5327"W	point
Lancaster Unit 2H - BHL - Rev-3	6421.00	6222.23	-1542.42	1667639.48	14339867.73	39°29'19.1435"N	80°54'12.6423"W	point
Lancaster Unit 2H - LP - Rev-2	6421.00	-779.50	867.93	1670048.86	14332868.81	39°28'9.9160"N	80°53'42.0032"W	point
Lancaster Unit 2H - LP - Rev-3	6421.00	-765.92	863.25	1670044.18	14332882.39	39°28'10.0503"N	80°53'42.0626"W	point
Lancaster Unit 2H - 50' L/R Hardline	6500.00	2625.99	-304.41	1668876.99	14336272.93	39°28'43.5870"N	80°53'56.9033"W	rectangle
	2D Rectangle 7609.51 x 100.							



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Lancaster Unit 2H AWP Proj: 14509'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lancaster Unit 2H
Field	Tyler	API	47-095-02675-0000
Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

WELLPATH COMPOSITION - Ref Wellbore: Lancaster Unit 2H AWB Ref Wellpath: Lancaster Unit 2H AWP Proj: 14509'					
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	536.00	Gyrodata 2015 - 6C+WIR+DPIPE	01 Gyrodatta MS Gyro <13-1/2"> (100'-536')	Lancaster Unit 2H AWB	2/27/2020
536.00	2723.00	BH NavTrak (2019) (Axial)	02 APS EM <9-7/8"> (536' 688'-2723')	Lancaster Unit 2H AWB	2/27/2020
2723.00	5173.00	BH NavTrak (2019) (Axial)	03 APS EM <6-3/4"> (2723' 2894'-5173')	Lancaster Unit 2H AWB	2/27/2020
5173.00	5684.00	BH OnTrak (2019) (Short spacing)	04 AutoTrak X-Gen <6-3/4"> (5173' 5206'-5684')	Lancaster Unit 2H AWB	2/27/2020
5684.00	14509.00	BH AutoTrak G3/GT4/eXact (2019) (X Short spacing)	05 BH AutoTrak eXact (X-Short) <6-3/4"> (5684' 5717'-14448')	Lancaster Unit 2H AWB	4/27/2020



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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lancaster Unit 2H
Field	Tyler	API	47-095-02675-0000
Facility	Hogue Pad	Wellbore	Lancaster Unit 2H AWB
Slot	Slot #05		

COMMENTS

Wellpath general comments
API: 47-095-02675-0000
BHI Job #: 110290355B
Rig: H&P 317
Duration: 04/24/2020-04/29/2020
Gyrodatta MS Gyro <13-1/2"> (100'-536')
APS EM <9-7/8">(536')(688'-2723')
APS EM <6-3/4"> (2723')(2894'-5173')
AutoTrak X-Gen <6-3/4">(5173')(5206'-5684')
BH AutoTrak eXact (X-Short) <6-3/4">(5684')(5717'-14448')
Middlesex: 6624' MD
Burkett: 6785' MD
Tully: 6834' MD
Marcellus POE: 6945' MD
Projected MD at TD: 14509'