



ANTERO RESOURCES CORPORATION



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

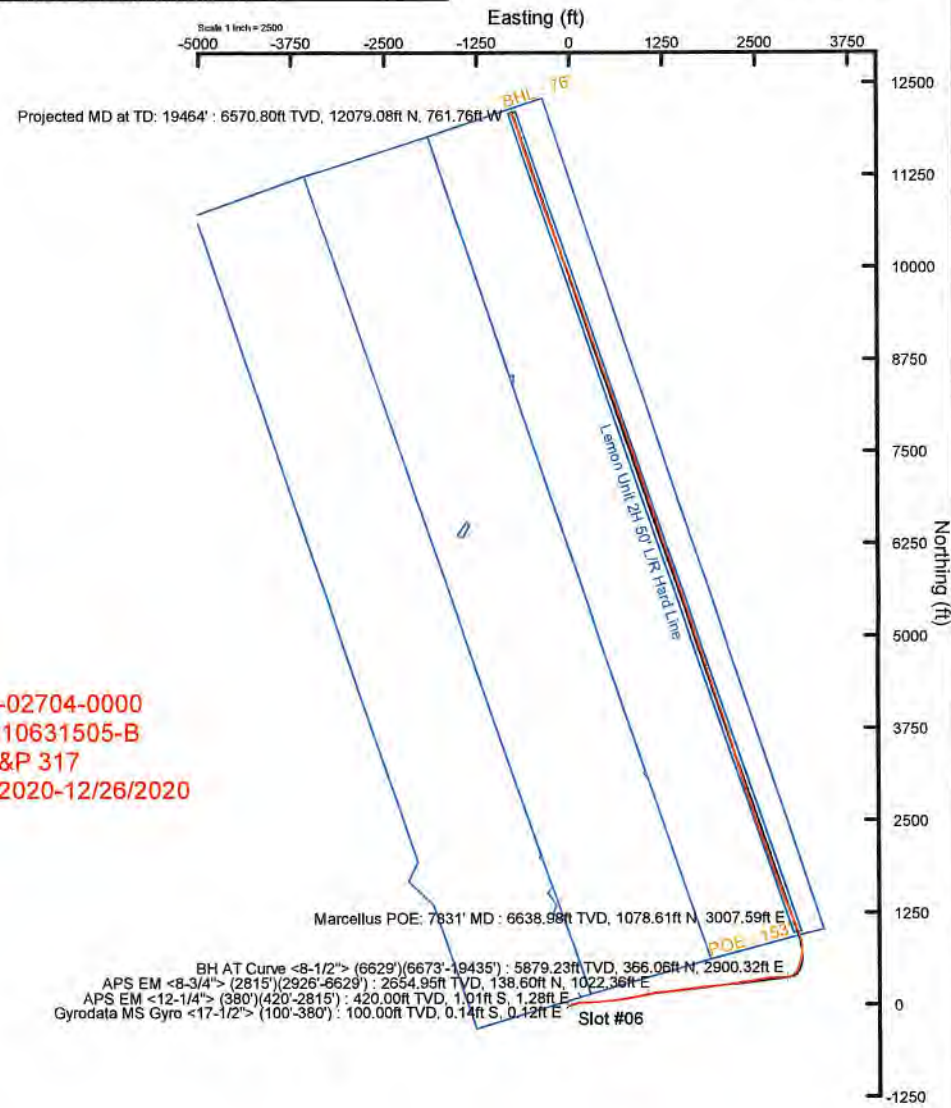
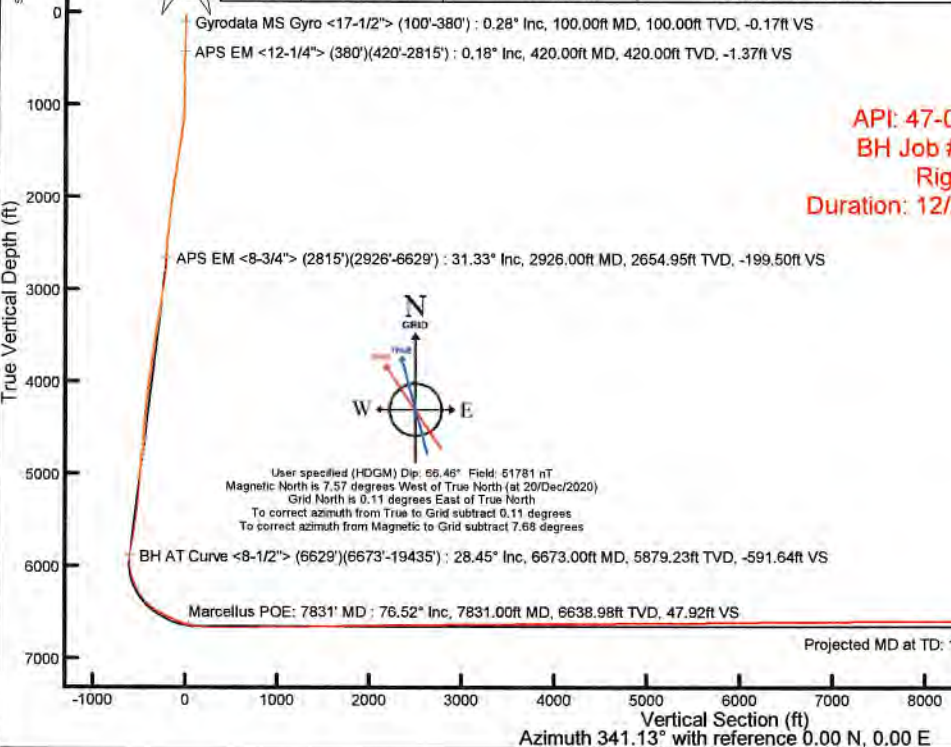
Slot: Slot #06
 Well: Lemon Unit 2H
 Wellbore: Lemon Unit 2H PWB

Plot reference wellpath is Lemon Unit 2H 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: 1096.5 feet	Coordinates are in feet referenced to 2811
Mean Sea Level to Ground level (At Slot: Slot #06): -1041 feet	Depths are in feet
Offset wellbore MDs are referenced to each path's default MD datum	Created by: edstaryan on 2020-12-30; Database: WA_MPL_EASTERNUS_Dein

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Margery Pad	1688470.750	14350316.150	39°31'2.1450"N	80°49'46.5880"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #06	0.00	0.00	1688470.750	14350316.150	39°31'2.1450"N
Comment	Lemon Unit 2H				
H&P 317 (RKB) to Ground level (At Slot: Slot #06)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot #06)	-1041ft				
H&P 317 (RKB) to Mean Sea Level	1096.5ft				

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	2815.00	32.430	77.970	2560.89	125.23	965.29	0.64	-193.70
Proj. to Bottom	2889.00	32.430	77.970	2623.15	133.50	1004.11	0.00	-198.43
Drill Out	2969.00	32.430	77.970	2690.67	142.44	1046.06	0.00	-203.53
End of 3D Arc	3066.24	30.263	83.300	2790.81	152.44	1109.17	3.00	-213.51
Curve KOP	6795.79	30.263	83.300	5917.09	365.27	2917.86	0.00	-598.06
POE	7741.97	74.817	341.133	6629.00	980.05	3037.05	8.00	-54.88
Landing PL	7931.76	90.000	341.133	6654.00	1157.54	2976.39	8.00	132.70
BHL	19500.76	90.000	341.133	6654.00	12104.98	-764.66	0.00	11701.70

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Lemon Unit 2H	Lemon Unit 2H AWP	Lemon Unit 2H AWP Proj: 19464'
Slot #06	Lemon Unit 2H	Lemon Unit 2H PWB	Lemon Unit 2H PWP Rev-B.0



API: 47-095-02704-0000
 BH Job #: 110631505-B
 Rig: H&P 317
 Duration: 12/22/2020-12/26/2020

Projected MD at TD: 19464' : 90.34" Inc, 19464.00ft MD, 6570.80ft TVD, 11676.26ft VS

Vertical Section (ft)
 Azimuth 341.13° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	30/Dec/2020 at 23:18
Convergence at slot	0.11° 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	0.00	0.00	1688470.75	14350316.15	39°31'2.1450"N	80°49'46.5880"W
Facility Reference Pt			1688470.75	14350316.15	39°31'2.1450"N	80°49'46.5880"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	1066.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1066.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #06)	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	341.13°



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (217 stations) † = interpolated, ‡ = extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
0.00†	0.000	139.190	0.00	0.00	0.00	0.00	1688470.75	14350316.15	39°31'2.1450"N	80°49'46.5880"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	139.190	25.50	0.00	0.00	0.00	1688470.75	14350316.15	39°31'2.1450"N	80°49'46.5880"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.280	139.190	100.00	-0.17	-0.14	0.12	1688470.87	14350316.01	39°31'2.1437"N	80°49'46.5865"W	0.18	139.190	0.38	0.38	0.00	Gyrodata MS Gyro <17-1/2"> (100'-380')
200.00	0.290	130.230	200.00	-0.61	-0.49	0.47	1688471.22	14350315.66	39°31'2.1402"N	80°49'46.5820"W	0.68	135.855	0.05	0.01	-8.96	
300.00	0.280	112.110	300.00	-0.99	-0.74	0.89	1688471.64	14350315.41	39°31'2.1377"N	80°49'46.5767"W	1.16	129.756	0.09	-0.01	-18.12	
380.00	0.220	138.780	380.00	-1.26	-0.93	1.17	1688471.92	14350315.22	39°31'2.1358"N	80°49'46.5731"W	1.50	128.411	0.16	-0.08	33.34	
420.00	0.180	113.160	420.00	-1.37	-1.01	1.28	1688472.03	14350315.14	39°31'2.1350"N	80°49'46.5717"W	1.63	128.316	0.24	-0.10	-64.05	APS EM <12-1/4"> (380')(420'-2815')
511.00	1.710	86.460	510.98	-1.83	-0.99	2.77	1688473.52	14350315.16	39°31'2.1353"N	80°49'46.5527"W	2.94	109.593	1.70	1.68	-29.34	
602.00	4.150	79.570	601.86	-2.67	-0.31	7.36	1688478.11	14350315.84	39°31'2.1419"N	80°49'46.4941"W	7.37	92.376	2.70	2.68	-7.57	
691.00	6.970	74.190	690.43	-3.43	1.75	15.73	1688486.47	14350317.90	39°31'2.1620"N	80°49'46.3873"W	15.82	83.654	3.22	3.17	-6.04	
781.00	9.900	72.360	779.45	-3.89	5.58	28.36	1688499.10	14350321.73	39°31'2.1997"N	80°49'46.2261"W	28.90	78.864	3.27	3.26	-2.03	
872.00	12.110	71.130	868.77	-4.06	11.04	44.85	1688515.58	14350327.19	39°31'2.2533"N	80°49'46.0155"W	46.19	76.170	2.44	2.43	-1.35	
962.00	14.430	74.350	956.36	-4.69	17.12	64.58	1688535.31	14350333.26	39°31'2.3130"N	80°49'45.7636"W	66.81	75.153	2.70	2.58	3.58	
1052.00	16.610	78.210	1043.07	-6.90	22.77	87.97	1688558.69	14350338.92	39°31'2.3685"N	80°49'45.4649"W	90.87	75.486	2.68	2.42	4.29	
1147.00	19.270	84.330	1133.46	-12.16	27.10	116.87	1688587.58	14350343.24	39°31'2.4107"N	80°49'45.0961"W	119.97	76.946	3.43	2.80	6.44	
1242.00	21.710	89.010	1222.44	-21.13	28.95	150.05	1688620.74	14350345.09	39°31'2.4284"N	80°49'44.6727"W	152.82	79.079	3.09	2.57	4.93	
1337.00	23.710	88.020	1310.07	-32.08	29.91	186.71	1688657.38	14350346.05	39°31'2.4372"N	80°49'44.2049"W	189.09	80.897	2.14	2.11	-1.04	
1432.00	26.180	87.190	1396.21	-43.43	31.60	226.74	1688697.39	14350347.74	39°31'2.4531"N	80°49'43.6942"W	228.93	82.065	2.63	2.60	-0.87	
1527.00	30.060	86.550	1479.98	-55.56	34.06	271.43	1688742.08	14350350.20	39°31'2.4766"N	80°49'43.1237"W	273.56	82.847	4.10	4.08	-0.67	
1621.00	32.150	86.470	1560.46	-68.43	37.02	319.90	1688790.52	14350353.15	39°31'2.5049"N	80°49'42.5052"W	322.04	83.399	2.22	2.22	-0.09	
1716.00	32.650	85.540	1640.67	-81.50	40.57	370.68	1688841.28	14350356.70	39°31'2.5390"N	80°49'41.8572"W	372.89	83.754	0.74	0.53	-0.98	
1811.00	33.050	84.830	1720.48	-94.01	44.90	422.03	1688892.61	14350361.03	39°31'2.5808"N	80°49'41.2019"W	424.41	83.928	0.58	0.42	-0.75	
1906.00	33.240	84.150	1800.02	-106.01	49.88	473.73	1688944.29	14350366.01	39°31'2.6292"N	80°49'40.5421"W	476.35	83.989	0.44	0.20	-0.72	
2001.00	33.280	84.030	1879.46	-117.70	55.25	525.56	1688996.10	14350371.38	39°31'2.6812"N	80°49'39.8807"W	528.45	83.999	0.08	0.04	-0.13	
2096.00	33.440	82.840	1958.81	-128.83	61.22	577.45	1689047.97	14350377.35	39°31'2.7393"N	80°49'39.2183"W	580.69	83.948	0.71	0.17	-1.25	
2190.00	33.550	82.430	2037.20	-139.17	67.87	628.90	1689099.40	14350384.00	39°31'2.8040"N	80°49'38.5617"W	632.55	83.840	0.27	0.12	-0.44	
2285.00	33.850	82.250	2116.23	-149.42	74.90	681.14	1689151.62	14350391.02	39°31'2.8725"N	80°49'37.8950"W	685.24	83.725	0.33	0.32	-0.19	
2380.00	34.350	80.820	2194.90	-159.04	82.74	733.81	1689204.27	14350398.86	39°31'2.9490"N	80°49'37.2226"W	738.46	83.567	0.99	0.53	-1.51	
2475.00	32.780	81.000	2274.06	-167.96	91.04	785.68	1689256.11	14350407.16	39°31'3.0300"N	80°49'36.5607"W	790.93	83.390	1.66	-1.65	0.19	
2570.00	32.460	79.970	2354.07	-176.28	99.51	836.18	1689306.60	14350415.62	39°31'3.1127"N	80°49'35.9160"W	842.08	83.214	0.67	-0.34	-1.08	



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (217 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
2665.00	32.410	79.290	2434.25	-183.81	108.68	886.30	1689356.70	14350424.78	39°31'3.2024"N	80°49'35.2763"W	892.94	83.009	0.39	-0.05	-0.72	
2760.00	32.690	77.530	2514.33	-190.29	118.95	936.37	1689406.74	14350435.05	39°31'3.3030"N	80°49'34.6372"W	943.89	82.760	1.04	0.29	-1.85	
2815.00	32.430	77.970	2560.69	-193.70	125.23	965.29	1689435.66	14350441.33	39°31'3.3645"N	80°49'34.2679"W	973.38	82.608	0.64	-0.47	0.80	
2926.00	31.330	75.620	2654.95	-199.50	138.60	1022.36	1689492.70	14350454.69	39°31'3.4955"N	80°49'33.5394"W	1031.71	82.280	1.49	-0.99	-2.12	APS EM <8-3/4"> (2815')(2926'-6629')
3024.00	32.510	77.940	2738.13	-204.62	150.43	1072.80	1689543.12	14350466.52	39°31'3.6115"N	80°49'32.8956"W	1083.29	82.018	1.74	1.20	2.37	
3119.00	31.640	80.020	2818.63	-211.50	160.08	1122.31	1689592.61	14350476.17	39°31'3.7060"N	80°49'32.2636"W	1133.67	81.882	1.48	-0.92	2.19	
3213.00	32.140	83.510	2898.45	-220.67	167.18	1171.44	1689641.72	14350483.27	39°31'3.7752"N	80°49'31.6365"W	1183.31	81.878	2.03	0.53	3.71	
3308.00	32.780	87.440	2978.61	-233.31	171.19	1222.24	1689692.50	14350487.27	39°31'3.8138"N	80°49'30.9882"W	1234.17	82.027	2.32	0.67	4.14	
3403.00	34.350	84.780	3057.78	-246.86	174.78	1274.63	1689744.87	14350490.86	39°31'3.8483"N	80°49'30.3196"W	1286.56	82.192	2.26	1.65	-2.80	
3498.00	35.730	81.700	3135.56	-258.28	181.22	1328.77	1689798.99	14350497.30	39°31'3.9109"N	80°49'29.6285"W	1341.08	82.234	2.36	1.45	-3.24	
3593.00	35.860	82.680	3212.62	-268.94	188.77	1383.82	1689854.02	14350504.84	39°31'3.9845"N	80°49'28.9259"W	1396.64	82.232	0.62	0.14	1.03	
3688.00	37.100	82.110	3289.00	-279.96	196.25	1439.80	1689909.98	14350512.32	39°31'4.0573"N	80°49'28.2114"W	1453.12	82.238	1.35	1.31	-0.60	
3782.00	37.400	84.700	3363.83	-292.06	202.78	1496.32	1689966.47	14350518.85	39°31'4.1207"N	80°49'27.4902"W	1509.99	82.282	1.70	0.32	2.76	
3877.00	36.780	85.050	3439.61	-305.67	207.90	1553.38	1690023.51	14350523.96	39°31'4.1702"N	80°49'26.7620"W	1567.23	82.377	0.69	-0.65	0.37	
3972.00	37.410	81.490	3515.40	-317.71	214.62	1610.26	1690080.36	14350530.69	39°31'4.2356"N	80°49'26.0360"W	1624.50	82.408	2.36	0.66	-3.75	
4067.00	35.930	81.300	3591.59	-327.82	223.11	1666.35	1690136.44	14350539.17	39°31'4.3184"N	80°49'25.3200"W	1681.22	82.374	1.56	-1.56	-0.20	
4161.00	35.390	81.920	3667.97	-337.78	231.11	1720.56	1690190.63	14350547.16	39°31'4.3964"N	80°49'24.6281"W	1736.02	82.350	0.69	-0.57	0.66	
4256.00	33.050	84.120	3746.52	-348.76	237.63	1773.58	1690243.62	14350553.68	39°31'4.4598"N	80°49'23.9514"W	1789.43	82.369	2.79	-2.46	2.32	
4351.00	31.740	85.270	3826.73	-360.69	242.34	1824.25	1690294.27	14350558.39	39°31'4.5054"N	80°49'23.3047"W	1840.28	82.433	1.52	-1.38	1.21	
4446.00	30.020	85.170	3908.26	-372.56	246.40	1872.84	1690342.84	14350562.45	39°31'4.5446"N	80°49'22.6847"W	1888.98	82.505	1.81	-1.81	-0.11	
4541.00	27.350	86.640	3991.60	-384.16	249.68	1918.31	1690388.30	14350565.73	39°31'4.5762"N	80°49'22.1043"W	1934.49	82.584	2.91	-2.81	1.55	
4636.00	27.680	84.330	4075.85	-395.03	253.14	1962.06	1690432.02	14350569.19	39°31'4.6095"N	80°49'21.5461"W	1978.32	82.648	1.18	0.35	-2.43	
4731.00	27.330	84.180	4160.12	-405.00	257.53	2005.71	1690475.66	14350573.58	39°31'4.6520"N	80°49'20.9889"W	2022.18	82.683	0.38	-0.37	-0.16	
4826.00	26.490	82.670	4244.83	-414.16	262.45	2048.42	1690518.35	14350578.49	39°31'4.6998"N	80°49'20.4438"W	2065.17	82.699	1.14	-0.88	-1.59	
4920.00	27.220	82.630	4328.69	-422.64	267.88	2090.54	1690560.45	14350583.92	39°31'4.7527"N	80°49'19.9063"W	2107.63	82.698	0.78	0.78	-0.04	
5015.00	26.870	81.070	4413.30	-430.68	274.00	2133.29	1690603.19	14350590.04	39°31'4.8123"N	80°49'19.3606"W	2150.82	82.681	0.83	-0.37	-1.64	
5110.00	27.940	78.080	4497.64	-437.08	281.93	2176.28	1690646.16	14350597.97	39°31'4.8898"N	80°49'18.8119"W	2194.46	82.619	1.83	1.13	-3.15	
5205.00	26.730	77.800	4582.03	-442.25	291.04	2218.94	1690688.80	14350607.08	39°31'4.9791"N	80°49'18.2673"W	2237.94	82.528	1.28	-1.27	-0.29	
5300.00	25.070	81.940	4667.50	-448.51	298.38	2259.76	1690729.60	14350614.41	39°31'5.0508"N	80°49'17.7463"W	2279.37	82.478	2.58	-1.75	4.36	
5395.00	26.900	84.260	4752.89	-457.17	303.35	2301.07	1690770.90	14350619.38	39°31'5.0991"N	80°49'17.2190"W	2320.98	82.490	2.20	1.93	2.44	



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REFERENCE WELLPATH IDENTIFICATION			
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Facility	Margery Pad	Wellbore	Lemon Unit 2H AWP
Slot	Slot #06		

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MD	Inclination	Azimuth	TVD	Vert	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Closure	DLS	Build	Turn	Comments
[ft]	[°]	[°]	[ft]	Sect	[ft]	[ft]	[US ft]	[US ft]			Dist	Dir	[°/100ft]	Rate	Rate	
				[ft]							[ft]	[°]		[ft/100ft]	[ft/100ft]	
5492.00	28.410	85.590	4838.81	-467.91	307.32	2345.91	1690815.73	14350623.35	39°31'5.1375"N	80°49'16.6467"W	2365.96	82.537	1.68	1.56	1.37	
5587.00	28.420	80.860	4922.37	-477.38	312.65	2390.77	1690860.57	14350628.68	39°31'5.1893"N	80°49'16.0742"W	2411.13	82.549	2.37	0.01	-4.98	
5681.00	27.010	79.830	5005.59	-484.39	319.97	2433.87	1690903.65	14350636.00	39°31'5.2608"N	80°49'15.5241"W	2454.81	82.510	1.58	-1.50	-1.10	
5776.00	25.960	80.940	5090.62	-491.20	327.06	2475.64	1690945.40	14350643.08	39°31'5.3300"N	80°49'14.9909"W	2497.15	82.474	1.22	-1.11	1.17	
5871.00	28.090	80.760	5175.24	-498.48	333.92	2518.25	1690988.00	14350649.94	39°31'5.3970"N	80°49'14.4470"W	2540.29	82.447	2.24	2.24	-0.19	
5966.00	28.690	80.020	5258.81	-505.75	341.47	2562.79	1691032.51	14350657.48	39°31'5.4707"N	80°49'13.8785"W	2585.43	82.411	0.73	0.63	-0.78	
6060.00	28.880	81.060	5341.20	-513.15	348.91	2607.43	1691077.14	14350664.92	39°31'5.5433"N	80°49'13.3087"W	2630.67	82.378	0.57	0.20	1.11	
6155.00	30.200	84.040	5423.85	-522.44	354.95	2653.86	1691123.55	14350670.96	39°31'5.6021"N	80°49'12.7160"W	2677.50	82.382	2.08	1.39	3.14	
6250.00	28.920	86.530	5506.49	-533.88	358.82	2700.56	1691170.23	14350674.83	39°31'5.6395"N	80°49'12.1201"W	2724.29	82.431	1.87	-1.35	2.62	
6345.00	28.220	86.840	5589.92	-546.06	361.45	2745.92	1691215.57	14350677.46	39°31'5.6646"N	80°49'11.5413"W	2769.60	82.501	0.75	-0.74	0.33	
6440.00	26.890	89.390	5674.15	-558.88	362.92	2789.83	1691259.46	14350678.92	39°31'5.6782"N	80°49'10.9809"W	2813.33	82.588	1.87	-1.40	2.68	
6535.00	28.660	88.820	5758.20	-572.53	363.62	2834.09	1691303.71	14350679.62	39°31'5.6842"N	80°49'10.4161"W	2857.32	82.689	1.88	1.86	-0.60	
6629.00	28.830	88.350	5840.61	-586.09	364.73	2879.28	1691348.88	14350680.74	39°31'5.6944"N	80°49'9.8394"W	2902.29	82.780	0.30	0.18	-0.50	
6673.00	28.450	84.390	5879.23	-591.64	366.06	2900.32	1691369.91	14350682.07	39°31'5.7071"N	80°49'9.5710"W	2923.33	82.806	4.40	-0.86	-9.00	BH AT Curve <8-1/2"> (6629')(6673'-19435')
6738.00	28.380	74.370	5936.44	-596.06	371.74	2930.62	1691400.20	14350687.74	39°31'5.7626"N	80°49'9.1842"W	2954.10	82.771	7.33	-0.11	-15.42	
6832.00	25.910	53.720	6020.26	-591.17	389.96	2968.78	1691438.35	14350705.95	39°31'5.9419"N	80°49'8.6968"W	2994.28	82.517	10.31	-2.63	-21.97	
6927.00	27.880	41.070	6105.05	-573.82	419.01	3000.13	1691469.69	14350734.99	39°31'6.2284"N	80°49'8.2959"W	3029.25	82.049	6.36	2.07	-13.32	
7022.00	32.010	30.590	6187.41	-546.30	457.48	3027.57	1691497.11	14350773.44	39°31'6.6080"N	80°49'7.9449"W	3061.94	81.407	7.00	4.35	-11.03	
7117.00	36.190	19.260	6266.14	-507.81	505.70	3049.67	1691519.20	14350821.65	39°31'7.0842"N	80°49'7.6617"W	3091.31	80.585	7.99	4.40	-11.93	
7212.00	42.530	15.580	6339.56	-459.22	563.17	3067.56	1691537.09	14350879.10	39°31'7.6518"N	80°49'7.4318"W	3118.83	79.597	7.11	6.67	-3.87	
7225.00†	43.366	15.183	6349.08	-451.89	571.71	3069.91	1691539.44	14350887.63	39°31'7.7362"N	80°49'7.4016"W	3122.69	79.451	6.76	6.43	-3.06	Sycamore: 7225' MD
7307.00	48.670	12.930	6406.01	-402.36	628.93	3084.19	1691553.71	14350944.83	39°31'8.3014"N	80°49'7.2180"W	3147.66	78.474	6.76	6.47	-2.75	
7392.00†	55.991	5.607	6457.96	-343.05	695.25	3094.79	1691564.31	14351011.12	39°31'8.9566"N	80°49'7.0810"W	3171.93	77.339	10.98	8.61	-8.62	Middlesex: 7392' MD
7401.00	56.790	4.910	6462.94	-336.20	702.71	3095.48	1691564.99	14351018.58	39°31'9.0304"N	80°49'7.0720"W	3174.24	77.210	10.98	8.88	-7.75	
7496.00	61.180	355.520	6511.96	-259.36	783.97	3095.63	1691565.15	14351099.80	39°31'9.8335"N	80°49'7.0680"W	3193.36	75.789	9.64	4.62	-9.88	
7591.00	65.580	347.400	6554.57	-175.91	867.82	3082.92	1691552.44	14351183.62	39°31'10.6625"N	80°49'7.2280"W	3202.74	74.278	8.93	4.63	-8.55	
7595.00†	65.666	347.127	6556.22	-172.28	871.37	3082.12	1691551.64	14351187.18	39°31'10.6976"N	80°49'7.2382"W	3202.93	74.213	6.59	2.15	-6.84	Burkett: 7595' MD
7638.00	66.620	344.210	6573.62	-133.09	909.47	3072.38	1691541.91	14351225.26	39°31'11.0743"N	80°49'7.3615"W	3204.16	73.511	6.59	2.22	-6.78	
7659.00†	66.608	342.228	6581.95	-113.83	927.92	3066.82	1691536.34	14351243.70	39°31'11.2568"N	80°49'7.4320"W	3204.12	73.166	8.66	-0.06	-9.44	Tully: 7659' MD
7686.00	66.630	339.680	6592.67	-89.05	951.35	3058.73	1691528.26	14351267.12	39°31'11.4885"N	80°49'7.5346"W	3203.26	72.723	8.66	0.08	-9.44	



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (217 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
7733.00	68.650	338.020	6610.55	-45.62	991.88	3043.05	1691512.58	14351307.63	39°31'11.8894"N	80°49'7.7337"W	3200.62	71.947	5.40	4.30	-3.53	
7781.00	73.580	337.690	6626.08	-0.29	1033.93	3025.93	1691495.47	14351349.67	39°31'12.3053"N	80°49'7.9510"W	3197.70	71.135	10.29	10.27	-0.69	
7831.00†	76.522	337.674	6638.98	47.92	1078.61	3007.59	1691477.14	14351394.33	39°31'12.7473"N	80°49'8.1839"W	3195.15	70.271	5.88	5.88	-0.03	Marcellus POE: 7831' MD
7876.00	79.170	337.660	6648.45	91.83	1119.30	2990.87	1691460.43	14351435.01	39°31'13.1498"N	80°49'8.3962"W	3193.45	69.482	5.88	5.88	-0.03	
7971.00	86.030	338.150	6660.68	185.88	1206.54	2955.46	1691425.03	14351522.21	39°31'14.0127"N	80°49'8.8458"W	3192.25	67.793	7.24	7.22	0.52	
8065.00	88.980	340.000	6664.77	279.67	1294.25	2921.93	1691391.51	14351609.88	39°31'14.8802"N	80°49'9.2715"W	3195.74	66.109	3.70	3.14	1.97	
8160.00	90.280	340.120	6665.38	374.65	1383.55	2889.53	1691359.13	14351699.14	39°31'15.7634"N	80°49'9.6826"W	3203.68	64.414	1.37	1.37	0.13	
8255.00	90.000	339.620	6665.15	469.63	1472.74	2856.84	1691326.45	14351788.30	39°31'16.6456"N	80°49'10.0975"W	3214.11	62.728	0.60	-0.29	-0.53	
8350.00	90.400	339.570	6664.82	564.59	1561.78	2823.71	1691293.34	14351877.31	39°31'17.5262"N	80°49'10.5179"W	3226.84	61.053	0.42	0.42	-0.05	
8445.00	89.850	338.510	6664.61	659.53	1650.49	2789.73	1691259.37	14351965.98	39°31'18.4037"N	80°49'10.9492"W	3241.41	59.390	1.26	-0.58	-1.12	
8540.00	91.020	340.010	6663.89	754.47	1739.33	2756.09	1691225.74	14352054.79	39°31'19.2823"N	80°49'11.3762"W	3259.04	57.745	2.00	1.23	1.58	
8634.00	91.170	341.840	6662.10	848.45	1828.15	2725.38	1691195.04	14352143.57	39°31'20.1608"N	80°49'11.7659"W	3281.74	56.147	1.95	0.16	1.95	
8729.00	90.860	341.310	6660.41	943.43	1918.26	2695.36	1691165.03	14352233.65	39°31'21.0520"N	80°49'12.1467"W	3308.28	54.561	0.65	-0.33	-0.56	
8824.00	90.520	340.880	6659.27	1038.42	2008.13	2664.58	1691134.27	14352323.48	39°31'21.9408"N	80°49'12.5371"W	3336.55	52.997	0.58	-0.36	-0.45	
8919.00	90.680	341.130	6658.27	1133.42	2097.95	2633.66	1691103.36	14352413.27	39°31'22.8292"N	80°49'12.9294"W	3367.13	51.459	0.31	0.17	0.26	
9014.00	90.090	339.050	6657.64	1228.39	2187.27	2601.31	1691071.02	14352502.55	39°31'23.7125"N	80°49'13.3399"W	3398.67	49.942	2.28	-0.62	-2.19	
9109.00	90.890	340.010	6656.82	1323.35	2276.27	2568.09	1691037.82	14352591.51	39°31'24.5928"N	80°49'13.7616"W	3431.69	48.447	1.32	0.84	1.01	
9204.00	90.710	337.450	6655.50	1418.25	2364.78	2533.63	1691003.37	14352679.98	39°31'25.4682"N	80°49'14.1991"W	3465.76	46.974	2.70	-0.19	-2.69	
9298.00	90.550	338.860	6654.46	1512.11	2452.02	2498.66	1690968.41	14352767.19	39°31'26.3312"N	80°49'14.6431"W	3500.82	45.540	1.51	-0.17	1.50	
9393.00	91.050	342.410	6653.14	1607.09	2541.62	2467.17	1690936.93	14352856.76	39°31'27.2173"N	80°49'15.0428"W	3542.14	44.148	3.77	0.53	3.74	
9488.00	91.790	343.070	6650.78	1702.02	2632.32	2438.99	1690908.77	14352947.41	39°31'28.1142"N	80°49'15.4000"W	3588.56	42.817	1.04	0.78	0.69	
9583.00	91.820	343.170	6647.79	1796.91	2723.18	2411.42	1690881.21	14353038.24	39°31'29.0128"N	80°49'15.7496"W	3637.39	41.525	0.11	0.03	0.11	
9678.00	90.370	343.160	6645.97	1891.83	2814.09	2383.91	1690853.71	14353129.11	39°31'29.9118"N	80°49'16.0983"W	3688.10	40.269	1.53	-1.53	-0.01	
9773.00	90.710	343.540	6645.08	1986.76	2905.10	2356.69	1690826.50	14353220.09	39°31'30.8119"N	80°49'16.4433"W	3740.80	39.050	0.54	0.36	0.40	
9867.00	90.650	343.310	6643.96	2080.68	2995.19	2329.88	1690799.70	14353310.14	39°31'31.7028"N	80°49'16.7832"W	3794.66	37.878	0.25	-0.06	-0.24	
9962.00	90.590	343.010	6642.94	2175.61	3086.11	2302.36	1690772.19	14353401.03	39°31'32.6019"N	80°49'17.1321"W	3850.31	36.724	0.32	-0.06	-0.32	
10057.00	90.400	342.960	6642.11	2270.56	3176.95	2274.56	1690744.40	14353491.83	39°31'33.5002"N	80°49'17.4846"W	3907.25	35.601	0.21	-0.20	-0.05	
10152.00	90.800	344.340	6641.12	2365.46	3268.10	2247.82	1690717.67	14353582.94	39°31'34.4016"N	80°49'17.8235"W	3966.50	34.520	1.51	0.42	1.45	
10247.00	91.020	344.370	6639.61	2460.30	3359.57	2222.20	1690692.07	14353674.37	39°31'35.3061"N	80°49'18.1481"W	4028.01	33.483	0.23	0.23	0.03	
10342.00	90.120	344.150	6638.67	2555.15	3451.00	2196.43	1690666.31	14353765.77	39°31'36.2103"N	80°49'18.4747"W	4090.69	32.475	0.98	-0.95	-0.23	



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Lemon Unit 2H
Field	Tyler		API	47-095-02704-0000
Facility	Margery Pad		Wellbore	Lemon Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (217 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
10436.00	90.250	344.360	6638.36	2649.01	3541.47	2170.93	1690640.81	14353856.21	39°31'37.1049"N	80°49'18.7979"W	4153.91	31.508	0.26	0.14	0.22	
10531.00	90.830	341.240	6637.47	2743.95	3632.21	2142.84	1690612.73	14353946.91	39°31'38.0023"N	80°49'19.1540"W	4217.19	30.539	3.34	0.61	-3.28	
10626.00	90.740	341.900	6636.17	2838.94	3722.32	2112.81	1690582.71	14354036.99	39°31'38.8935"N	80°49'19.5350"W	4280.15	29.579	0.70	-0.09	0.69	
10721.00	90.950	341.110	6634.76	2933.93	3812.41	2082.68	1690552.59	14354127.04	39°31'39.7844"N	80°49'19.9173"W	4344.19	28.647	0.86	0.22	-0.83	
10815.00	90.340	341.220	6633.71	3027.92	3901.37	2052.33	1690522.26	14354215.96	39°31'40.6642"N	80°49'20.3023"W	4408.26	27.747	0.66	-0.65	0.12	
10910.00	90.400	341.240	6633.09	3122.92	3991.31	2021.76	1690491.71	14354305.87	39°31'41.5538"N	80°49'20.6901"W	4474.16	26.864	0.07	0.06	0.02	
11005.00	90.590	341.300	6632.27	3217.91	4081.28	1991.26	1690461.21	14354395.80	39°31'42.4435"N	80°49'21.0772"W	4541.14	26.008	0.21	0.20	0.06	
11110.00	90.220	341.690	6631.53	3322.91	4180.85	1957.93	1690427.90	14354495.33	39°31'43.4283"N	80°49'21.4999"W	4616.60	25.094	0.51	-0.35	0.37	
11195.00	90.220	341.620	6631.20	3407.90	4261.53	1931.18	1690401.16	14354575.98	39°31'44.2262"N	80°49'21.8393"W	4678.68	24.378	0.08	0.00	-0.08	
11290.00	90.490	341.980	6630.61	3502.90	4351.77	1901.51	1690371.50	14354666.18	39°31'45.1186"N	80°49'22.2157"W	4749.07	23.603	0.47	0.28	0.38	
11384.00	90.620	341.130	6629.70	3596.89	4440.94	1871.77	1690341.77	14354755.32	39°31'46.0005"N	80°49'22.5930"W	4819.28	22.855	0.91	0.14	-0.90	
11479.00	90.400	341.670	6628.86	3691.88	4530.97	1841.47	1690311.49	14354845.31	39°31'46.8909"N	80°49'22.9775"W	4890.88	22.118	0.61	-0.23	0.57	
11574.00	90.250	341.440	6628.32	3786.88	4621.09	1811.41	1690281.44	14354935.40	39°31'47.7821"N	80°49'23.3588"W	4963.44	21.405	0.29	-0.16	-0.24	
11668.00	90.650	341.600	6627.58	3880.87	4710.24	1781.62	1690251.66	14355024.51	39°31'48.6638"N	80°49'23.7368"W	5035.92	20.719	0.46	0.43	0.17	
11763.00	90.460	341.720	6626.66	3975.86	4800.41	1751.73	1690221.78	14355114.64	39°31'49.5556"N	80°49'24.1160"W	5110.04	20.048	0.24	-0.20	0.13	
11858.00	89.940	341.690	6626.33	4070.86	4890.61	1721.91	1690191.97	14355204.80	39°31'50.4476"N	80°49'24.4943"W	5184.88	19.396	0.55	-0.55	-0.03	
11953.00	90.310	341.650	6626.12	4165.85	4980.79	1692.03	1690162.11	14355294.95	39°31'51.3395"N	80°49'24.8734"W	5260.34	18.763	0.39	0.39	-0.04	
12048.00	90.460	340.870	6625.48	4260.85	5070.75	1661.51	1690131.60	14355384.87	39°31'52.2292"N	80°49'25.2606"W	5336.02	18.142	0.84	0.16	-0.82	
12143.00	90.370	341.530	6624.80	4355.85	5160.68	1630.90	1690101.00	14355474.77	39°31'53.1185"N	80°49'25.6491"W	5412.25	17.538	0.70	-0.09	0.69	
12238.00	90.400	340.710	6624.16	4450.84	5250.56	1600.16	1690070.27	14355564.62	39°31'54.0075"N	80°49'26.0392"W	5488.98	16.949	0.86	0.03	-0.86	
12332.00	90.030	341.620	6623.80	4544.84	5339.53	1569.81	1690039.93	14355653.55	39°31'54.8874"N	80°49'26.4243"W	5565.51	16.383	1.05	-0.39	0.97	
12427.00	90.460	341.270	6623.40	4639.84	5429.59	1539.58	1690009.72	14355743.57	39°31'55.7780"N	80°49'26.8078"W	5643.65	15.831	0.58	0.45	-0.37	
12522.00	90.280	341.480	6622.79	4734.84	5519.61	1509.24	1689979.39	14355833.56	39°31'56.6683"N	80°49'27.1928"W	5722.23	15.293	0.29	-0.19	0.22	
12617.00	90.740	341.560	6621.94	4829.83	5609.71	1479.13	1689949.29	14355923.62	39°31'57.5594"N	80°49'27.5748"W	5801.44	14.771	0.49	0.48	0.08	
12712.00	90.650	341.070	6620.79	4924.82	5699.69	1448.70	1689918.87	14356013.57	39°31'58.4493"N	80°49'27.9610"W	5880.92	14.261	0.52	-0.09	-0.52	
12807.00	90.430	341.040	6619.89	5019.82	5789.54	1417.86	1689888.04	14356103.38	39°31'59.3379"N	80°49'28.3524"W	5960.63	13.761	0.23	-0.23	-0.03	
12902.00	90.620	341.000	6619.02	5114.81	5879.38	1386.96	1689857.16	14356193.18	39°32'0.2263"N	80°49'28.7445"W	6040.75	13.274	0.20	0.20	-0.04	
12996.00	90.090	341.440	6618.44	5208.81	5968.37	1356.70	1689826.91	14356282.14	39°32'1.1065"N	80°49'29.1285"W	6120.63	12.807	0.73	-0.56	0.47	
13091.00	90.120	341.170	6618.26	5303.81	6058.36	1326.25	1689796.47	14356372.09	39°32'1.9964"N	80°49'29.5149"W	6201.82	12.348	0.29	0.03	-0.28	
13186.00	90.180	341.730	6618.02	5398.81	6148.42	1296.03	1689766.26	14356462.12	39°32'2.8871"N	80°49'29.8984"W	6283.53	11.903	0.59	0.06	0.59	



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (217 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
13281.00	90.250	342.110	6617.66	5493.80	6238.73	1266.54	1689736.79	14356552.39	39°32'3.7803"N	80°49'30.2724"W	6365.99	11.476	0.41	0.07	0.40	
13376.00	90.620	341.530	6616.94	5588.79	6328.98	1236.90	1689707.16	14356642.61	39°32'4.6728"N	80°49'30.6485"W	6448.72	11.058	0.72	0.39	-0.61	
13470.00	90.550	341.630	6615.98	5682.78	6418.16	1207.20	1689677.47	14356731.75	39°32'5.5548"N	80°49'31.0253"W	6530.71	10.652	0.13	-0.07	0.11	
13565.00	90.740	341.680	6614.91	5777.77	6508.33	1177.31	1689647.59	14356821.88	39°32'6.4465"N	80°49'31.4047"W	6613.95	10.253	0.21	0.20	0.05	
13660.00	90.740	341.230	6613.68	5872.76	6598.39	1147.09	1689617.39	14356911.90	39°32'7.3372"N	80°49'31.7881"W	6697.35	9.862	0.47	0.00	-0.47	
13755.00	90.770	341.640	6612.43	5967.75	6688.44	1116.85	1689587.15	14357001.92	39°32'8.2277"N	80°49'32.1718"W	6781.04	9.480	0.43	0.03	0.43	
13850.00	90.580	341.530	6611.31	6062.74	6778.57	1086.84	1689557.16	14357092.01	39°32'9.1191"N	80°49'32.5526"W	6865.14	9.109	0.23	-0.20	-0.12	
13945.00	90.620	340.830	6610.32	6157.74	6868.48	1056.20	1689526.53	14357181.89	39°32'10.0083"N	80°49'32.9415"W	6949.22	8.742	0.74	0.04	-0.74	
14039.00	90.740	341.490	6609.20	6251.73	6957.44	1025.84	1689496.18	14357270.81	39°32'10.8881"N	80°49'33.3267"W	7032.66	8.388	0.71	0.13	0.70	
14134.00	90.400	341.490	6608.26	6346.72	7047.52	995.69	1689466.04	14357360.85	39°32'11.7789"N	80°49'33.7094"W	7117.51	8.042	0.36	-0.36	0.00	
14229.00	90.370	341.270	6607.62	6441.72	7137.54	965.35	1689435.72	14357450.84	39°32'12.6693"N	80°49'34.0943"W	7202.53	7.703	0.23	-0.03	-0.23	
14324.00	90.310	341.540	6607.05	6536.72	7227.58	935.06	1689405.44	14357540.85	39°32'13.5597"N	80°49'34.4788"W	7287.82	7.372	0.29	-0.06	0.28	
14419.00	90.490	341.600	6606.39	6631.71	7317.71	905.03	1689375.42	14357630.94	39°32'14.4510"N	80°49'34.8599"W	7373.46	7.050	0.20	0.19	0.06	
14514.00	90.310	341.290	6605.73	6726.71	7407.77	874.80	1689345.20	14357720.96	39°32'15.3417"N	80°49'35.2435"W	7459.24	6.735	0.38	-0.19	-0.33	
14608.00	90.370	339.450	6605.17	6820.69	7496.30	843.22	1689313.64	14357809.46	39°32'16.2173"N	80°49'35.6444"W	7543.58	6.418	1.96	0.06	-1.96	
14703.00	90.340	340.690	6604.58	6915.67	7585.61	810.84	1689281.27	14357898.73	39°32'17.1005"N	80°49'36.0555"W	7628.82	6.101	1.31	-0.03	1.31	
14798.00	90.180	340.530	6604.15	7010.67	7675.22	779.30	1689249.74	14357988.30	39°32'17.9868"N	80°49'36.4558"W	7714.68	5.798	0.24	-0.17	-0.17	
14893.00	90.490	341.360	6603.59	7105.67	7765.01	748.29	1689218.74	14358078.06	39°32'18.8748"N	80°49'36.8495"W	7800.98	5.504	0.93	0.33	0.87	
14988.00	90.180	340.680	6603.04	7200.66	7854.84	717.39	1689187.85	14358167.86	39°32'19.7632"N	80°49'37.2416"W	7887.53	5.218	0.79	-0.33	-0.72	
15083.00	90.030	340.100	6602.86	7295.65	7944.33	685.51	1689155.98	14358257.31	39°32'20.6483"N	80°49'37.6464"W	7973.85	4.932	0.63	-0.16	-0.61	
15178.00	90.220	340.210	6602.66	7390.64	8033.69	653.26	1689123.75	14358346.63	39°32'21.5321"N	80°49'38.0558"W	8060.21	4.649	0.23	0.20	0.12	
15272.00	90.340	340.710	6602.20	7484.63	8122.27	621.82	1689092.32	14358435.18	39°32'22.4082"N	80°49'38.4550"W	8146.04	4.378	0.55	0.13	0.53	
15367.00	90.740	340.920	6601.30	7579.63	8211.99	590.60	1689061.11	14358524.87	39°32'23.2955"N	80°49'38.8512"W	8233.21	4.114	0.48	0.42	0.22	
15462.00	90.280	340.880	6600.46	7674.62	8301.76	559.52	1689030.04	14358614.60	39°32'24.1833"N	80°49'39.2458"W	8320.59	3.856	0.49	-0.48	-0.04	
15557.00	90.220	340.730	6600.04	7769.62	8391.48	528.28	1688998.82	14358704.28	39°32'25.0705"N	80°49'39.6423"W	8408.09	3.602	0.17	-0.06	-0.16	
15652.00	90.370	340.240	6599.55	7864.61	8481.02	496.55	1688967.10	14358793.78	39°32'25.9561"N	80°49'40.0451"W	8495.54	3.351	0.54	0.16	-0.52	
15747.00	90.340	340.220	6598.96	7959.60	8570.42	464.41	1688934.98	14358883.15	39°32'26.8403"N	80°49'40.4531"W	8582.99	3.102	0.04	-0.03	-0.02	
15841.00	90.430	339.990	6598.33	8053.58	8658.81	432.43	1688903.00	14358971.50	39°32'27.7144"N	80°49'40.8592"W	8669.60	2.859	0.26	0.10	-0.24	
15936.00	90.430	340.330	6597.62	8148.56	8748.16	400.19	1688870.78	14359060.82	39°32'28.5982"N	80°49'41.2686"W	8757.31	2.619	0.36	0.00	0.36	
16031.00	90.310	340.170	6597.01	8243.55	8837.57	368.08	1688838.69	14359150.20	39°32'29.4825"N	80°49'41.6762"W	8845.24	2.385	0.21	-0.13	-0.17	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (217 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
16126.00	90.460	340.470	6596.37	8338.54	8927.02	336.09	1688806.71	14359239.61	39°32'30.3671"N	80°49'42.0824"W	8933.35	2.156	0.35	0.16	0.32	
16221.00	90.340	340.960	6595.71	8433.53	9016.69	304.72	1688775.35	14359329.24	39°32'31.2539"N	80°49'42.4807"W	9021.84	1.936	0.53	-0.13	0.52	
16316.00	90.490	340.920	6595.02	8528.53	9106.48	273.70	1688744.34	14359418.99	39°32'32.1419"N	80°49'42.8745"W	9110.59	1.722	0.16	0.16	-0.04	
16411.00	90.370	341.050	6594.30	8623.53	9196.29	242.74	1688713.40	14359508.77	39°32'33.0301"N	80°49'43.2673"W	9199.50	1.512	0.19	-0.13	0.14	
16505.00	91.080	340.330	6593.11	8717.52	9285.00	211.66	1688682.33	14359597.44	39°32'33.9074"N	80°49'43.6619"W	9287.41	1.306	1.08	0.76	-0.77	
16600.00	90.770	341.170	6591.58	8812.50	9374.67	180.35	1688651.02	14359687.08	39°32'34.7943"N	80°49'44.0595"W	9376.41	1.102	0.94	-0.33	0.88	
16695.00	90.800	340.820	6590.28	8907.49	9464.49	149.41	1688620.10	14359776.86	39°32'35.6825"N	80°49'44.4522"W	9465.67	0.904	0.37	0.03	-0.37	
16790.00	90.890	340.240	6588.88	9002.48	9554.04	117.75	1688588.45	14359866.38	39°32'36.5682"N	80°49'44.8541"W	9554.77	0.706	0.62	0.09	-0.61	
16884.00	90.800	340.490	6587.49	9096.46	9642.57	86.17	1688556.88	14359954.87	39°32'37.4437"N	80°49'45.2551"W	9642.95	0.512	0.28	-0.10	0.27	
16979.00	90.890	340.550	6586.09	9191.44	9732.12	54.49	1688525.22	14360044.38	39°32'38.3294"N	80°49'45.6573"W	9732.27	0.321	0.11	0.09	0.06	
17074.00	90.400	340.810	6585.02	9286.43	9821.76	23.06	1688493.80	14360133.99	39°32'39.2160"N	80°49'46.0563"W	9821.79	0.135	0.58	-0.52	0.27	
17169.00	90.250	340.070	6584.48	9381.42	9911.28	-8.74	1688462.01	14360223.47	39°32'40.1013"N	80°49'46.4601"W	9911.28	359.949	0.79	-0.16	-0.78	
17263.00	90.250	340.460	6584.07	9475.41	9999.76	-40.48	1688430.28	14360311.91	39°32'40.9763"N	80°49'46.8632"W	9999.84	359.768	0.41	0.00	0.41	
17358.00	90.460	340.170	6583.48	9570.40	10089.20	-72.48	1688398.30	14360401.32	39°32'41.8609"N	80°49'47.2695"W	10089.46	359.588	0.38	0.22	-0.31	
17453.00	90.460	340.410	6582.72	9665.39	10178.63	-104.52	1688366.27	14360490.72	39°32'42.7454"N	80°49'47.6763"W	10179.17	359.412	0.25	0.00	0.25	
17548.00	90.400	340.470	6582.01	9760.38	10268.15	-136.33	1688334.48	14360580.20	39°32'43.6307"N	80°49'48.0801"W	10269.05	359.239	0.09	-0.06	0.06	
17642.00	90.280	340.270	6581.45	9854.37	10356.69	-167.90	1688302.91	14360668.70	39°32'44.5063"N	80°49'48.4811"W	10358.05	359.071	0.25	-0.13	-0.21	
17737.00	90.340	340.100	6580.94	9949.35	10446.06	-200.11	1688270.72	14360758.04	39°32'45.3902"N	80°49'48.8900"W	10447.98	358.903	0.19	0.06	-0.18	
17832.00	90.280	340.300	6580.42	10044.34	10535.44	-232.29	1688238.56	14360847.38	39°32'46.2742"N	80°49'49.2986"W	10538.00	358.737	0.22	-0.06	0.21	
17927.00	90.430	340.090	6579.83	10139.32	10624.82	-264.47	1688206.38	14360936.73	39°32'47.1581"N	80°49'49.7074"W	10628.11	358.574	0.27	0.16	-0.22	
18021.00	90.280	340.110	6579.25	10233.31	10713.21	-296.47	1688174.40	14361025.08	39°32'48.0323"N	80°49'50.1137"W	10717.31	358.415	0.16	-0.16	0.02	
18116.00	90.340	340.580	6578.74	10328.30	10802.67	-328.42	1688142.46	14361114.51	39°32'48.9171"N	80°49'50.5194"W	10807.66	358.259	0.50	0.06	0.49	
18211.00	90.460	340.700	6578.07	10423.29	10892.30	-359.91	1688110.98	14361204.10	39°32'49.8034"N	80°49'50.9193"W	10898.24	358.107	0.18	0.13	0.13	
18306.00	90.280	341.370	6577.46	10518.29	10982.14	-390.79	1688080.12	14361293.90	39°32'50.6919"N	80°49'51.3112"W	10989.09	357.962	0.73	-0.19	0.71	
18401.00	90.220	341.680	6577.05	10613.28	11072.24	-420.89	1688050.03	14361383.97	39°32'51.5830"N	80°49'51.6934"W	11080.24	357.823	0.33	-0.06	0.33	
18495.00	90.340	341.220	6576.59	10707.28	11161.35	-450.79	1688020.14	14361473.05	39°32'52.4643"N	80°49'52.0730"W	11170.45	357.687	0.51	0.13	-0.49	
18590.00	90.430	341.110	6575.95	10802.28	11251.26	-481.46	1687989.48	14361562.92	39°32'53.3535"N	80°49'52.4623"W	11261.56	357.550	0.15	0.09	-0.12	
18684.00	90.340	341.100	6575.32	10896.28	11340.20	-511.90	1687959.05	14361651.82	39°32'54.2330"N	80°49'52.8488"W	11351.75	357.415	0.10	-0.10	-0.01	
18778.00	90.150	341.190	6574.92	10990.28	11429.15	-542.28	1687928.68	14361740.74	39°32'55.1127"N	80°49'53.2344"W	11442.01	357.284	0.22	-0.20	0.10	
18872.00	90.280	341.040	6574.56	11084.28	11518.09	-572.71	1687898.27	14361829.64	39°32'55.9923"N	80°49'53.6207"W	11532.32	357.153	0.21	0.14	-0.16	



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (217 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
18966.00	90.280	341.130	6574.10	11178.27	11607.01	-603.18	1687867.81	14361918.53	39°32'56.8717"N	80°49'54.0076"W	11622.68	357.025	0.10	0.00	0.10	
19060.00	90.430	341.800	6573.52	11272.27	11696.14	-633.06	1687837.94	14362007.62	39°32'57.7531"N	80°49'54.3869"W	11713.26	356.902	0.73	0.16	0.71	
19154.00	90.370	341.270	6572.86	11366.27	11785.29	-662.83	1687808.18	14362096.74	39°32'58.6348"N	80°49'54.7648"W	11803.92	356.781	0.57	-0.06	-0.56	
19248.00	90.310	341.590	6572.31	11460.26	11874.40	-692.76	1687778.26	14362185.81	39°32'59.5160"N	80°49'55.1448"W	11894.59	356.661	0.35	-0.06	0.34	
19341.00	90.490	341.210	6571.66	11553.26	11962.54	-722.43	1687748.61	14362273.91	39°33'0.3877"N	80°49'55.5214"W	11984.33	356.544	0.45	0.19	-0.41	
19435.00	90.340	341.440	6570.98	11647.26	12051.59	-752.53	1687718.53	14362362.92	39°33'1.2683"N	80°49'55.9035"W	12075.06	356.427	0.29	-0.16	0.24	
19464.00‡	90.340	341.440	6570.80	11676.26	12079.08	-761.76	1687709.30	14362390.41	39°33'1.5402"N	80°49'56.0207"W	12103.07	356.391	0.00	0.00	0.00	Projected MD at TD: 19464'

HOLE & CASING SECTIONS - Ref Wellbore: Lemon Unit 2H AWB Ref Wellpath: Lemon Unit 2H AWP Proj: 19464'									
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	-0.16	0.14
17.5in Open Hole	105.50	392.00	286.50	105.50	392.00	-0.16	0.14	-0.96	1.20
13.375in Casing Surface	25.50	370.00	344.50	25.50	370.00	0.00	0.00	-0.90	1.15
12.25in Open Hole	392.00	2889.00	2497.00	392.00	2623.40	-0.96	1.20	133.93	1003.59
9.625in Casing Intermediate	25.50	2826.00	2800.50	25.50	2569.98	0.00	0.00	126.47	971.05
8.75in Open Hole	2889.00	6698.00	3809.00	2623.40	5901.23	133.93	1003.59	367.62	2912.10
8.5in Open Hole	6698.00	19464.00	12766.00	5901.23	6570.80	367.62	2912.10	12079.08	-761.76
5.5in Casing Production	25.50	19464.00	19438.50	25.50	6570.80	0.00	0.00	12079.08	-761.76



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Lemon Unit 2H POE Rev-2	6629.00	980.05	3037.05	1691506.59	14351295.80	39°31'11.7725"N	80°49'7.8105"W	point
Lemon Unit 2H BHL Rev-2	6654.00	12104.98	-764.66	1687706.40	14362416.29	39°33'1.7962"N	80°49'56.0571"W	point
Lemon Unit 2H LP Rev-2	6654.00	1157.54	2976.39	1691445.96	14351473.23	39°31'13.5280"N	80°49'8.5799"W	point
Lemon Unit 2H 50' L/R Hard Line	7000.00	6542.51	1136.20	1689606.49	14356856.05	39°32'6.7851"N	80°49'31.9285"W	rectangle
2D Rectangle 11756.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Lemon Unit 2H AWB Ref Wellpath: Lemon Unit 2H AWP Proj: 19464'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	380.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-380')	Lemon Unit 2H AWB	27/Oct/2020
380.00	2815.00	BH NaviTrak (2019) (Axial)	02 APS EM <12-1/4"> (380')(420'-2815')	Lemon Unit 2H AWB	27/Oct/2020
2815.00	6629.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2815')(2926'-6629')	Lemon Unit 2H AWB	20/Dec/2020
6629.00	19464.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6629')(6673'-19435')	Lemon Unit 2H AWB	20/Dec/2020



Actual Wellpath Report

Lemon Unit 2H AWP Proj: 19464'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lemon Unit 2H
Field	Tyler	API	47-095-02704-0000
Facility	Margery Pad	Wellbore	Lemon Unit 2H AWB
Slot	Slot #06		

COMMENTS
<p>Wellpath general comments API: 47-095-02704-0000 BH Job #: 110631505-B Rig: H&P 317 Duration: 12/22/2020-12/26/2020 Gyrodata MS Gyro <17-1/2"> (100'-380') APS EM <12-1/4"> (380')(420'-2815') APS EM <8-3/4"> (2815')(2926'-6629') BH AT Curve <8-1/2"> (6629')(6673'-19435') Sycamore: 7225' MD Middlesex: 7392' MD Burkett: 7595' MD Tully: 7659' MD Marcellus POE: 7831' MD Projected MD at TD: 19464'</p>

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MAR 28 2023
WV Department of
Environmental Protection