



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
 Field: Tyler
 Facility: Ed Yost Pad

Slot: Slot A
 Well: Cider Run Unit 1H
 Wellbore: Cider Run Unit 1H PWB

Easting (ft)

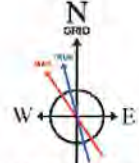
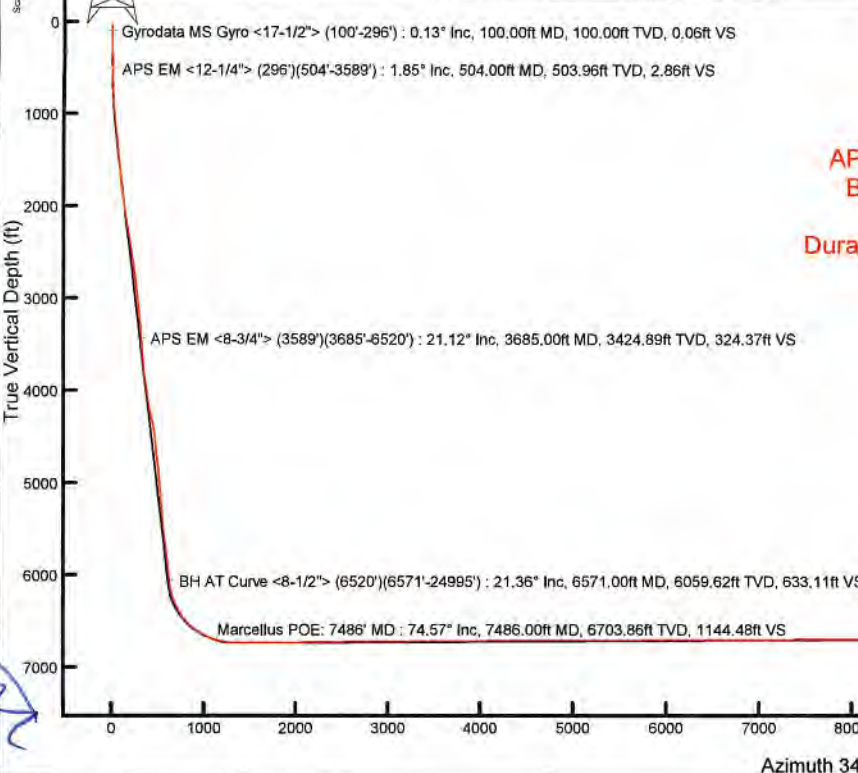
Scale 1 inch = 3000
 1500

Plot reference wellpath is Cider Run Unit 1H PWB Rev-A.1	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: 1233 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot A): -1233 feet	Depths are in feet
Offset wellbore MDs are referenced to each path's default MD datum	Created by: welluser on 2023-03-14, Database: WA_MPL_EASTERNUS_Data

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Ed Yost Pad	1886484.970	14361457.860	39°32'52.4411"N	80°50'11.6780"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot A	-20.59	-21.89	1886463.090	14361447.280
Comment: Cider Run Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot A)				30ft
Mean Sea Level to Ground level (At Slot: Slot A)				-1233ft
H&P 519 (RKB) to Mean Sea Level				1263ft

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	30.00	0.000	266.100	30.00	0.00	0.00	0.00	0.00
KOP 1	390.00	0.000	266.100	390.00	0.00	0.00	0.00	0.00
End of Build	1186.64	24.199	269.100	1172.87	-11.41	-167.44	3.00	43.49
Curve KOP	6819.51	24.199	266.100	6119.20	-162.60	-2385.19	0.00	519.58
POE	7478.41	73.355	341.079	6706.00	287.48	-2737.51	8.00	1140.68
Landing Pt.	7590.22	90.300	341.079	6738.00	485.09	-2805.25	8.00	1349.55
BHL	25012.71	90.300	341.079	6645.30	19851.34	-8422.30	0.00	18671.81

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	Cider Run Unit 1H	Cider Run Unit 1H AWB	Cider Run Unit 1H AWP Proj: 25020'
Slot A	Cider Run Unit 1H	Cider Run Unit 1H PWB	Cider Run Unit 1H PWP Rev-A.1

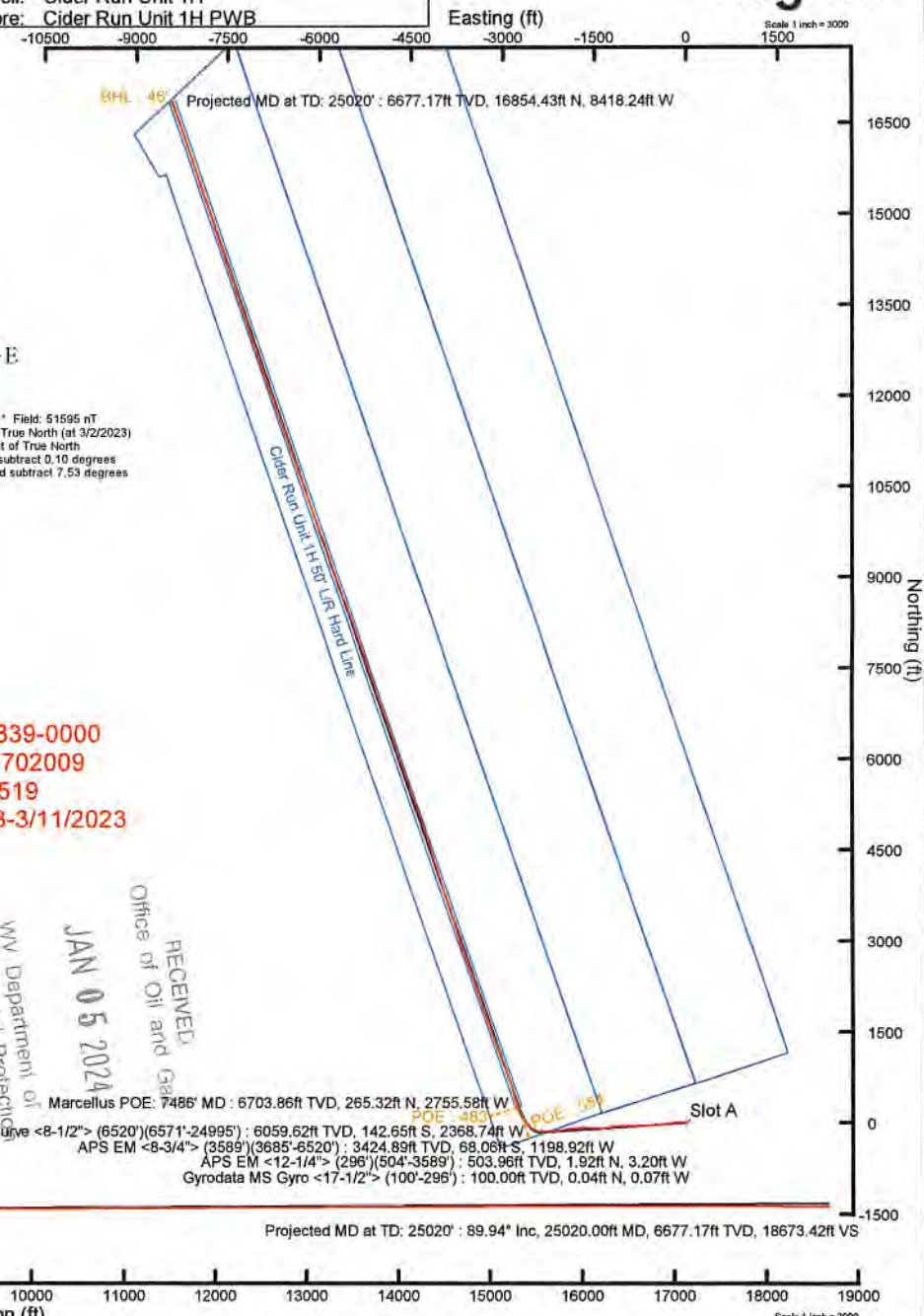


User specified (HDGM) Dip: 65.31° Field: 51595 nT
 Magnetic North is 7.43 degrees West of True North (at 3/2/2023)
 Grid North is 0.10 degrees East of True North
 To correct azimuth from True to Grid subtract 0.10 degrees
 To correct azimuth from Magnetic to Grid subtract 7.53 degrees

API: 47-095-02839-0000
 BH Job #: 111702009
 Rig: H&P 519
 Duration: 3/3/2023-3/11/2023

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 Office of Oil and Gas
 JAN 05 2024
 WV Department of Environmental Protection

Marcellus POE: 7486' MD : 6703.86ft TVD, 265.32ft N, 2755.58ft W
 BH AT Curve <8-1/2"> (6520')(6571'-24995') : 6059.62ft TVD, 142.65ft S, 2368.74ft W
 APS EM <8-3/4"> (3589')(3685'-6520') : 3424.89ft TVD, 68.06ft S, 1198.92ft W
 APS EM <12-1/4"> (296')(504'-3589') : 503.96ft TVD, 1.92ft N, 3.20ft W
 Gyrodata MS Gyro <17-1/2"> (100'-296') : 100.00ft TVD, 0.04ft N, 0.07ft W





Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999602	Report Generated	3/14/2023 at 12:56:41 AM
Convergence at slot	0.10° 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	-20.59	-21.89	1686463.09	14361447.28	39°32'52.2380"N	80°50'11.9579"W
Facility Reference Pt			1686484.97	14361467.86	39°32'52.4411"N	80°50'11.6780"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	1263.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1263.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot A)	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	341.08°



Actual Wellpath Report

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Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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	0.00	300.390	0.00	0.00	0.00	0.00	1686463.09	14361447.28	39°32'52.2380"N	80°50'11.9579"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	300.390	30.00	0.00	0.00	0.00	1686463.09	14361447.28	39°32'52.2380"N	80°50'11.9579"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.13	300.390	100.00	0.06	0.04	-0.07	1686463.02	14361447.32	39°32'52.2384"N	80°50'11.9588"W	0.08	300.390	0.19	0.19	0.00	Gyrodata MS Gyro <17-1/2"> (100'-296')
200.00	0.04	270.900	200.00	0.16	0.10	-0.20	1686462.89	14361447.38	39°32'52.2389"N	80°50'11.9605"W	0.22	295.988	0.10	-0.09	-29.49	
296.00	0.21	13.930	296.00	0.32	0.27	-0.19	1686462.90	14361447.55	39°32'52.2406"N	80°50'11.9604"W	0.33	324.463	0.23	0.18	107.32	
504.00	1.85	292.460	503.96	2.86	1.92	-3.20	1686459.89	14361449.20	39°32'52.2570"N	80°50'11.9988"W	3.74	300.963	0.88	0.79	-39.17	APS EM <12-1/4"> (296')(504'-3589')
593.00	3.51	286.250	592.86	5.38	3.23	-7.15	1686455.95	14361450.51	39°32'52.2701"N	80°50'12.0491"W	7.84	294.343	1.89	1.87	-6.98	
682.00	5.56	277.470	681.58	8.88	4.56	-14.04	1686449.06	14361451.83	39°32'52.2833"N	80°50'12.1370"W	14.76	287.982	2.43	2.30	-9.87	
771.00	8.16	273.840	769.94	13.22	5.54	-24.62	1686438.48	14361452.82	39°32'52.2932"N	80°50'12.2721"W	25.23	282.683	2.96	2.92	-4.08	
860.00	11.42	273.090	857.63	18.97	6.44	-39.72	1686423.38	14361453.72	39°32'52.3023"N	80°50'12.4649"W	40.24	279.207	3.67	3.66	-0.84	
948.00	14.21	272.470	943.43	26.18	7.37	-59.22	1686403.90	14361454.65	39°32'52.3119"N	80°50'12.7137"W	59.67	277.098	3.17	3.17	-0.70	
1038.00	16.69	271.560	1030.17	34.73	8.20	-83.17	1686379.95	14361455.48	39°32'52.3205"N	80°50'13.0195"W	83.58	275.632	2.77	2.76	-1.01	
1133.00	19.97	269.890	1120.34	44.73	8.54	-113.04	1686350.09	14361455.82	39°32'52.3244"N	80°50'13.4008"W	113.36	274.321	3.50	3.45	-1.76	
1227.00	22.19	267.230	1208.04	54.85	7.65	-146.83	1686316.32	14361454.93	39°32'52.3162"N	80°50'13.8321"W	147.03	272.984	2.57	2.36	-2.83	
1322.00	24.60	264.880	1295.23	64.56	5.02	-184.45	1686278.71	14361452.30	39°32'52.2909"N	80°50'14.3124"W	184.52	271.559	2.72	2.54	-2.47	
1416.00	26.08	263.380	1380.18	73.63	0.89	-224.46	1686238.72	14361448.17	39°32'52.2508"N	80°50'14.8233"W	224.46	270.228	1.72	1.57	-1.60	
1511.00	27.16	261.700	1465.11	82.07	-4.64	-266.66	1686196.53	14361442.64	39°32'52.1968"N	80°50'15.3621"W	266.70	269.002	1.39	1.14	-1.77	
1605.00	27.86	260.640	1548.48	89.67	-11.31	-309.57	1686153.65	14361435.97	39°32'52.1317"N	80°50'15.9100"W	309.77	267.907	0.91	0.74	-1.13	
1700.00	27.75	258.290	1632.52	96.14	-19.41	-353.12	1686110.11	14361427.87	39°32'52.0524"N	80°50'16.4662"W	353.66	266.853	1.16	-0.12	-2.47	
1794.00	27.79	260.720	1715.69	102.55	-27.39	-396.18	1686067.07	14361419.90	39°32'51.9744"N	80°50'17.0160"W	397.13	266.045	1.21	0.04	2.59	
1888.00	27.62	263.660	1798.92	110.97	-33.33	-439.47	1686023.80	14361413.96	39°32'51.9164"N	80°50'17.5687"W	440.73	265.663	1.47	-0.18	3.13	
1983.00	27.71	267.840	1883.07	122.13	-36.59	-483.43	1685979.86	14361410.70	39°32'51.8849"N	80°50'18.1300"W	484.81	265.671	2.04	0.09	4.40	
2077.00	28.00	268.390	1966.18	135.00	-38.04	-527.32	1685935.98	14361409.26	39°32'51.8714"N	80°50'18.6904"W	528.69	265.874	0.41	0.31	0.59	
2172.00	28.08	267.000	2050.03	147.77	-39.83	-571.94	1685891.38	14361407.46	39°32'51.8545"N	80°50'19.2600"W	573.33	266.016	0.69	0.08	-1.46	
2266.00	28.13	267.170	2132.94	159.98	-42.09	-616.17	1685847.17	14361405.21	39°32'51.8330"N	80°50'19.8246"W	617.60	266.093	0.10	0.05	0.18	
2361.00	28.41	267.330	2216.61	172.51	-44.24	-661.11	1685802.24	14361403.05	39°32'51.8125"N	80°50'20.3984"W	662.59	266.171	0.31	0.29	0.17	
2455.00	27.95	269.120	2299.47	185.59	-45.62	-705.48	1685757.90	14361401.67	39°32'51.7996"N	80°50'20.9647"W	706.95	266.300	1.02	-0.49	1.90	
2550.00	28.05	269.840	2383.35	199.67	-46.03	-750.07	1685713.32	14361401.27	39°32'51.7964"N	80°50'21.5340"W	751.48	266.488	0.37	0.11	0.76	
2644.00	26.40	269.750	2466.93	213.47	-46.18	-793.07	1685670.33	14361401.12	39°32'51.7956"N	80°50'22.0830"W	794.42	266.667	1.76	-1.76	-0.10	
2739.00	24.70	270.590	2552.64	226.86	-46.07	-834.05	1685629.38	14361401.23	39°32'51.7975"N	80°50'22.6060"W	835.32	266.838	1.83	-1.79	0.88	



Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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
2833.00	23.960	269.400	2638.29	239.42	-46.07	-872.77	1685590.67	14361401.23	39°32'51.7982"N	80°50'23.1003"W	873.99	266.979	0.94	-0.79	-1.27	
2927.00	23.540	269.690	2724.33	251.41	-46.37	-910.63	1685552.83	14361400.93	39°32'51.7959"N	80°50'23.5836"W	911.81	267.085	0.46	-0.45	0.31	
3022.00	23.110	267.670	2811.57	262.78	-47.23	-948.23	1685515.24	14361400.07	39°32'51.7880"N	80°50'24.0636"W	949.40	267.149	0.96	-0.45	-2.13	
3116.00	22.750	267.410	2898.14	273.16	-48.80	-984.82	1685478.67	14361398.50	39°32'51.7731"N	80°50'24.5307"W	986.02	267.163	0.40	-0.38	-0.28	
3211.00	22.140	266.160	2985.94	282.98	-50.83	-1021.03	1685442.47	14361396.47	39°32'51.7537"N	80°50'24.9930"W	1022.29	267.150	0.82	-0.64	-1.32	
3305.00	22.670	266.310	3072.85	292.35	-53.18	-1056.78	1685406.73	14361394.12	39°32'51.7311"N	80°50'25.4494"W	1058.12	267.119	0.57	0.56	0.16	
3400.00	23.030	266.110	3160.39	301.98	-55.62	-1093.59	1685369.94	14361391.68	39°32'51.7076"N	80°50'25.9194"W	1095.00	267.088	0.39	0.38	-0.21	
3495.00	22.070	264.620	3248.13	310.98	-58.55	-1129.90	1685333.64	14361388.75	39°32'51.6793"N	80°50'26.3830"W	1131.41	267.033	1.18	-1.01	-1.57	
3589.00	21.450	261.750	3335.43	318.29	-62.68	-1164.49	1685299.06	14361384.63	39°32'51.6391"N	80°50'26.8247"W	1166.18	266.919	1.31	-0.66	-3.05	
3685.00	21.120	260.480	3424.89	324.37	-68.06	-1198.92	1685264.65	14361379.25	39°32'51.5866"N	80°50'27.2643"W	1200.85	266.751	0.59	-0.34	-1.32	APS EM <8-3/4"> (3589')(3685'-6520')
3779.00	22.260	260.240	3512.23	329.97	-73.88	-1233.17	1685230.41	14361373.43	39°32'51.5297"N	80°50'27.7016"W	1235.38	266.572	1.22	1.21	-0.26	
3874.00	24.370	263.170	3599.47	336.94	-79.26	-1270.37	1685193.23	14361368.05	39°32'51.4771"N	80°50'28.1766"W	1272.84	266.430	2.53	2.22	3.08	
3968.00	24.110	260.460	3685.18	344.13	-84.75	-1308.56	1685155.05	14361362.57	39°32'51.4235"N	80°50'28.6642"W	1311.30	266.295	1.22	-0.28	-2.88	
4063.00	23.730	262.270	3772.03	351.00	-90.53	-1346.64	1685116.99	14361356.78	39°32'51.3670"N	80°50'29.1504"W	1349.68	266.154	0.87	-0.40	1.91	
4157.00	23.810	268.390	3858.07	360.32	-93.61	-1384.35	1685079.29	14361353.71	39°32'51.3373"N	80°50'29.6320"W	1387.51	266.132	2.62	0.09	6.51	
4251.00	24.610	273.040	3943.81	373.29	-93.11	-1422.87	1685040.79	14361354.21	39°32'51.3429"N	80°50'30.1236"W	1425.91	266.256	2.20	0.85	4.95	
4346.00	24.160	268.610	4030.34	386.54	-92.53	-1462.06	1685001.62	14361354.79	39°32'51.3493"N	80°50'30.6239"W	1464.98	266.379	1.98	-0.47	-4.66	
4441.00	24.050	269.030	4117.05	398.36	-93.33	-1500.85	1684962.84	14361353.99	39°32'51.3421"N	80°50'31.1191"W	1503.75	266.442	0.21	-0.12	0.44	
4535.00	25.950	276.840	4202.27	413.21	-91.20	-1540.44	1684923.27	14361356.12	39°32'51.3638"N	80°50'31.6244"W	1543.13	266.612	4.05	2.02	8.31	
4630.00	26.940	281.470	4287.33	433.13	-84.45	-1582.17	1684881.55	14361362.87	39°32'51.4313"N	80°50'32.1570"W	1584.42	266.945	2.41	1.04	4.87	
4724.00	25.820	275.580	4371.56	452.40	-78.22	-1623.42	1684840.32	14361369.09	39°32'51.4935"N	80°50'32.6834"W	1625.30	267.242	3.03	-1.19	-6.27	
4818.00	24.240	266.970	4456.76	466.17	-77.25	-1663.08	1684800.68	14361370.06	39°32'51.5038"N	80°50'33.1897"W	1664.87	267.341	4.22	-1.68	-9.16	
4913.00	23.480	262.980	4543.64	475.42	-80.59	-1701.34	1684762.43	14361366.72	39°32'51.4714"N	80°50'33.6782"W	1703.25	267.288	1.88	-0.80	-4.20	
5007.00	23.370	264.860	4629.90	483.72	-84.55	-1738.49	1684725.29	14361362.76	39°32'51.4329"N	80°50'34.1525"W	1740.55	267.216	0.80	-0.12	2.00	
5102.00	24.310	268.510	4716.79	494.07	-86.75	-1776.81	1684686.99	14361360.57	39°32'51.4119"N	80°50'34.6417"W	1778.93	267.205	1.84	0.99	3.84	
5196.00	23.800	265.480	4802.63	504.58	-88.75	-1815.06	1684648.75	14361358.57	39°32'51.3928"N	80°50'35.1301"W	1817.23	267.201	1.42	-0.54	-3.22	
5291.00	23.220	262.660	4889.75	513.11	-92.65	-1852.75	1684611.08	14361354.67	39°32'51.3549"N	80°50'35.6112"W	1855.06	267.137	1.33	-0.61	-2.97	
5388.00	24.360	262.850	4978.51	521.02	-97.58	-1891.56	1684572.28	14361349.74	39°32'51.3068"N	80°50'36.1068"W	1894.08	267.047	1.18	1.18	0.20	
5482.00	25.690	263.160	5063.68	529.24	-102.42	-1931.03	1684532.83	14361344.90	39°32'51.2596"N	80°50'36.6107"W	1933.74	266.964	1.42	1.41	0.33	
5577.00	24.820	259.250	5149.61	536.39	-108.59	-1971.07	1684492.81	14361338.73	39°32'51.1993"N	80°50'37.1220"W	1974.06	266.847	1.98	-0.92	-4.12	



Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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
5671.00	24.530	260.520	5235.02	542.39	-115.49	-2009.70	1684454.20	14361331.84	39°32'51.1318"N	80°50'37.6152"W	2013.01	266.711	0.64	-0.31	1.35	
5766.00	24.490	264.160	5321.47	550.08	-120.74	-2048.74	1684415.17	14361326.59	39°32'51.0806"N	80°50'38.1137"W	2052.29	266.627	1.59	-0.04	3.83	
5860.00	23.670	262.110	5407.29	558.10	-125.31	-2086.81	1684377.11	14361322.02	39°32'51.0361"N	80°50'38.5999"W	2090.57	266.564	1.25	-0.87	-2.18	
5955.00	23.780	263.810	5494.26	565.97	-130.00	-2124.74	1684339.20	14361317.34	39°32'50.9904"N	80°50'39.0842"W	2128.72	266.499	0.73	0.12	1.79	
6049.00	24.580	269.760	5580.03	576.41	-132.12	-2163.14	1684300.81	14361315.21	39°32'50.9701"N	80°50'39.5744"W	2167.17	266.505	2.73	0.85	6.33	
6143.00	24.220	267.240	5665.63	588.04	-133.13	-2201.95	1684262.02	14361314.20	39°32'50.9608"N	80°50'40.0698"W	2205.97	266.540	1.17	-0.38	-2.68	
6238.00	23.420	263.950	5752.54	597.67	-136.06	-2240.19	1684223.79	14361311.27	39°32'50.9325"N	80°50'40.5581"W	2244.32	266.524	1.63	-0.84	-3.46	
6332.00	22.360	266.170	5839.14	606.48	-139.22	-2276.61	1684187.39	14361308.11	39°32'50.9018"N	80°50'41.0230"W	2280.86	266.501	1.45	-1.13	2.36	
6427.00	23.700	269.820	5926.57	617.32	-140.49	-2313.74	1684150.28	14361306.85	39°32'50.8899"N	80°50'41.4970"W	2318.00	266.525	2.06	1.41	3.84	
6520.00	22.100	267.050	6012.24	628.14	-141.45	-2349.90	1684114.13	14361305.89	39°32'50.8811"N	80°50'41.9587"W	2354.15	266.555	2.07	-1.72	-2.98	
6571.00	21.360	265.610	6059.62	633.11	-142.65	-2368.74	1684095.29	14361304.68	39°32'50.8695"N	80°50'42.1992"W	2373.03	266.554	1.79	-1.45	-2.82	BH AT Curve <8-1/2"> (6520)-(6571'-24995')
6640.00	21.890	271.900	6123.77	640.84	-143.19	-2394.13	1684069.92	14361304.15	39°32'50.8646"N	80°50'42.5233"W	2398.41	266.577	3.44	0.77	9.12	
6734.00	26.210	288.950	6209.69	659.84	-135.86	-2431.34	1684032.72	14361311.48	39°32'50.9377"N	80°50'42.9982"W	2435.13	266.802	8.66	4.60	18.14	
6829.00	31.640	292.320	6292.82	689.17	-119.57	-2474.27	1683989.81	14361327.76	39°32'51.0995"N	80°50'43.5458"W	2477.15	267.233	5.97	5.72	3.55	
6923.00	35.170	297.640	6371.29	725.10	-97.63	-2521.08	1683943.01	14361349.69	39°32'51.3170"N	80°50'44.1429"W	2522.97	267.782	4.88	3.76	5.66	
6998.00†	37.585	311.652	6431.78	760.77	-72.36	-2557.38	1683906.73	14361374.95	39°32'51.5674"N	80°50'44.6057"W	2558.40	268.379	11.52	3.22	18.68	Sycamore: 6998' MD
7018.00	38.490	315.090	6447.53	771.68	-63.90	-2566.33	1683897.79	14361383.41	39°32'51.6512"N	80°50'44.7198"W	2567.13	268.574	11.52	4.53	17.19	
7112.00	45.390	323.610	6517.47	830.01	-16.15	-2606.91	1683857.22	14361431.14	39°32'52.1238"N	80°50'45.2368"W	2606.96	269.645	9.50	7.34	9.06	
7145.00†	48.021	324.732	6540.10	852.99	3.32	-2620.97	1683843.17	14361450.60	39°32'52.3165"N	80°50'45.4158"W	2620.97	270.073	8.35	7.97	3.40	Middlesex: 7145' MD
7207.00	52.990	326.610	6579.52	899.10	42.83	-2647.92	1683816.23	14361490.10	39°32'52.7074"N	80°50'45.7589"W	2648.26	270.927	8.35	8.01	3.03	
7293.00†	59.646	330.349	6627.20	968.90	103.83	-2685.22	1683778.94	14361551.07	39°32'53.3110"N	80°50'46.2338"W	2687.23	272.214	8.54	7.74	4.35	Burkett: 7293' MD
7301.00	60.270	330.670	6631.20	975.71	109.86	-2688.63	1683775.54	14361557.10	39°32'53.3706"N	80°50'46.2772"W	2690.87	272.340	8.54	7.81	4.01	
7335.00†	62.448	332.725	6647.50	1005.15	136.13	-2702.77	1683761.40	14361583.36	39°32'53.6305"N	80°50'46.4572"W	2706.20	272.883	8.32	6.41	6.04	Tully: 7335' MD
7395.00	66.360	336.160	6673.42	1058.88	184.94	-2726.08	1683738.10	14361632.15	39°32'54.1133"N	80°50'46.7537"W	2732.35	273.881	8.32	6.52	5.73	
7486.00†	74.573	343.349	6703.86	1144.48	265.32	-2755.58	1683708.61	14361712.49	39°32'54.9082"N	80°50'47.1285"W	2768.33	275.500	11.69	9.03	7.90	Marcellus POE: 7486' MD
7490.00	74.940	343.650	6704.91	1148.33	269.02	-2756.68	1683707.51	14361716.19	39°32'54.9447"N	80°50'47.1424"W	2769.77	275.574	11.69	9.17	7.52	
7584.00	80.380	343.570	6724.99	1240.04	357.08	-2782.58	1683681.62	14361804.22	39°32'55.8155"N	80°50'47.4712"W	2805.40	277.313	5.79	5.79	-0.09	
7678.00	89.910	343.900	6732.94	1333.49	446.89	-2808.78	1683655.43	14361894.00	39°32'56.7036"N	80°50'47.8037"W	2844.11	279.040	10.14	10.14	0.35	
7773.00	89.110	341.720	6733.75	1428.44	537.64	-2836.85	1683627.37	14361984.71	39°32'57.6009"N	80°50'48.1601"W	2887.35	280.731	2.44	-0.84	-2.29	
7867.00	90.400	342.100	6734.15	1522.42	626.99	-2866.04	1683598.19	14362074.02	39°32'58.4845"N	80°50'48.5307"W	2933.82	282.340	1.43	1.37	0.40	

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Cider Run Unit 1H
Field	Tyler		API	47-095-02839-0000
Facility	Ed Yost Pad		Wellbore	Cider Run Unit 1H AWB
Slot	Slot A			

WELLPATH DATA (272 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
7956.00	90.280	341.090	6733.63	1611.42	711.44	-2894.14	1683570.11	14362158.43	39°32'59.3196"N	80°50'48.8876"W	2980.30	283.811	1.14	-0.13	-1.13	
8050.00	90.430	340.390	6733.04	1705.41	800.17	-2925.15	1683539.11	14362247.13	39°33'0.1971"N	80°50'49.2815"W	3032.62	285.299	0.76	0.16	-0.74	
8144.00	90.580	340.710	6732.21	1799.41	888.81	-2956.45	1683507.83	14362335.73	39°33'1.0736"N	80°50'49.6791"W	3087.16	286.733	0.38	0.16	0.34	
8239.00	89.970	340.400	6731.76	1894.40	978.39	-2988.07	1683476.21	14362425.27	39°33'1.9595"N	80°50'50.0809"W	3144.17	288.130	0.72	-0.64	-0.33	
8333.00	91.200	340.590	6730.80	1988.39	1066.98	-3019.45	1683444.84	14362513.84	39°33'2.8357"N	80°50'50.4796"W	3202.43	289.462	1.32	1.31	0.20	
8427.00	90.580	340.260	6729.34	2082.37	1155.54	-3050.94	1683413.37	14362602.36	39°33'3.7114"N	80°50'50.8797"W	3262.44	290.744	0.75	-0.66	-0.35	
8521.00	90.370	338.330	6728.56	2176.32	1243.46	-3084.18	1683380.15	14362690.25	39°33'4.5809"N	80°50'51.3021"W	3325.41	291.958	2.07	-0.22	-2.05	
8616.00	91.110	338.810	6727.33	2271.22	1331.89	-3118.88	1683345.45	14362778.63	39°33'5.4554"N	80°50'51.7432"W	3391.36	293.124	0.93	0.78	0.51	
8710.00	90.980	340.620	6725.62	2365.17	1420.04	-3151.46	1683312.89	14362866.75	39°33'6.3272"N	80°50'52.1573"W	3456.62	294.256	1.93	-0.14	1.93	
8804.00	91.080	341.230	6723.93	2459.16	1508.86	-3182.18	1683282.18	14362955.54	39°33'7.2058"N	80°50'52.5475"W	3521.78	295.368	0.66	0.11	0.65	
8898.00	90.580	341.070	6722.57	2553.15	1597.81	-3212.55	1683251.83	14363044.45	39°33'8.0852"N	80°50'52.9332"W	3587.96	296.444	0.56	-0.53	-0.17	
8993.00	90.740	340.870	6721.47	2648.14	1687.61	-3243.52	1683220.87	14363134.22	39°33'8.9732"N	80°50'53.3267"W	3656.29	297.488	0.27	0.17	-0.21	
9087.00	89.420	339.820	6721.34	2742.13	1776.13	-3275.14	1683189.26	14363222.70	39°33'9.8486"N	80°50'53.7284"W	3725.74	298.471	1.79	-1.40	-1.12	
9181.00	91.320	342.770	6720.73	2836.11	1865.15	-3305.28	1683159.13	14363311.69	39°33'10.7289"N	80°50'54.1113"W	3795.21	299.436	3.73	2.02	3.14	
9276.00	90.400	340.950	6719.31	2931.09	1955.42	-3334.85	1683129.57	14363401.91	39°33'11.6215"N	80°50'54.4869"W	3865.86	300.386	2.15	-0.97	-1.92	
9371.00	89.720	340.880	6719.21	3026.08	2045.19	-3365.91	1683098.52	14363491.66	39°33'12.5093"N	80°50'54.8815"W	3938.55	301.284	0.72	-0.72	-0.07	
9465.00	91.350	342.910	6718.33	3120.06	2134.53	-3395.12	1683069.33	14363580.95	39°33'13.3927"N	80°50'55.2525"W	4010.37	302.158	2.77	1.73	2.16	
9559.00	90.920	340.990	6716.47	3214.03	2223.88	-3424.24	1683040.22	14363670.27	39°33'14.2763"N	80°50'55.6223"W	4083.02	303.002	2.09	-0.46	-2.04	
9654.00	90.340	340.520	6715.42	3309.02	2313.56	-3455.55	1683008.92	14363759.92	39°33'15.1632"N	80°50'56.0201"W	4158.53	303.803	0.79	-0.61	-0.49	
9748.00	90.180	341.000	6715.00	3403.02	2402.31	-3486.52	1682977.96	14363848.63	39°33'16.0408"N	80°50'56.4137"W	4234.02	304.568	0.54	-0.17	0.51	
9843.00	90.340	339.930	6714.57	3498.01	2491.84	-3518.29	1682946.21	14363938.13	39°33'16.9262"N	80°50'56.8173"W	4311.34	305.308	1.14	0.17	-1.13	
9937.00	90.800	339.230	6713.63	3591.97	2579.93	-3551.08	1682913.43	14364026.18	39°33'17.7973"N	80°50'57.2341"W	4389.33	305.999	0.89	0.49	-0.74	
10127.00	90.520	341.360	6711.44	3781.93	2758.78	-3615.14	1682849.40	14364204.96	39°33'19.5660"N	80°50'58.0480"W	4547.54	307.348	1.13	-0.15	1.12	
10221.00	90.060	341.280	6710.97	3875.93	2847.83	-3645.24	1682819.30	14364293.97	39°33'20.4466"N	80°50'58.4305"W	4625.79	307.999	0.50	-0.49	-0.09	
10315.00	90.000	341.840	6710.92	3969.93	2937.00	-3674.98	1682789.58	14364383.11	39°33'21.3284"N	80°50'58.8082"W	4704.41	308.631	0.60	-0.06	0.60	
10410.00	91.320	343.640	6709.82	4064.87	3027.71	-3703.16	1682761.41	14364473.78	39°33'22.2254"N	80°50'59.1661"W	4783.35	309.269	2.35	1.39	1.89	
10504.00	89.690	342.220	6708.99	4158.81	3117.56	-3730.75	1682733.83	14364563.60	39°33'23.1139"N	80°50'59.5164"W	4861.86	309.883	2.30	-1.73	-1.51	
10599.00	90.740	342.660	6708.64	4253.79	3208.13	-3759.41	1682705.18	14364654.13	39°33'24.0095"N	80°50'59.8804"W	4942.20	310.476	1.20	1.11	0.46	
10694.00	90.490	343.460	6707.62	4348.72	3299.01	-3787.09	1682677.51	14364744.97	39°33'24.9080"N	80°51'0.2318"W	5022.50	311.060	0.88	-0.26	0.84	
10788.00	90.250	342.270	6707.01	4442.67	3388.83	-3814.79	1682649.83	14364834.76	39°33'25.7963"N	80°51'0.5835"W	5102.62	311.616	1.29	-0.26	-1.27	

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Cider Run Unit 1H
Field	Tyler		API	47-095-02839-0000
Facility	Ed Yost Pad		Wellbore	Cider Run Unit 1H AWB
Slot	Slot A			

WELLPATH DATA (272 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
10883.00	90.030	341.920	6706.78	4537.66	3479.23	-3843.99	1682620.63	14364925.12	39°33'26.6902"N	80°51'0.9545"W	5184.72	312.148	0.44	-0.23	-0.37	
10977.00	90.220	342.350	6706.57	4631.64	3568.69	-3872.83	1682591.81	14365014.55	39°33'27.5749"N	80°51'1.3207"W	5266.34	312.660	0.50	0.20	0.46	
11072.00	90.150	342.630	6706.27	4726.61	3659.29	-3901.41	1682563.24	14365105.11	39°33'28.4707"N	80°51'1.6837"W	5348.97	313.166	0.30	-0.07	0.29	
11166.00	90.030	342.340	6706.12	4820.58	3748.93	-3929.70	1682534.96	14365194.72	39°33'29.3571"N	80°51'2.0430"W	5431.12	313.651	0.33	-0.13	-0.31	
11261.00	90.000	341.890	6706.09	4915.57	3839.34	-3958.88	1682505.80	14365285.09	39°33'30.2512"N	80°51'2.4136"W	5514.82	314.122	0.47	-0.03	-0.47	
11355.00	90.550	342.880	6705.64	5009.54	3928.93	-3987.32	1682477.36	14365374.64	39°33'31.1371"N	80°51'2.7749"W	5597.79	314.577	1.20	0.59	1.05	
11450.00	90.150	342.480	6705.06	5104.50	4019.62	-4015.60	1682449.09	14365465.30	39°33'32.0338"N	80°51'3.1340"W	5681.76	315.029	0.60	-0.42	-0.42	
11544.00	90.490	342.640	6704.54	5198.47	4109.30	-4043.78	1682420.93	14365554.94	39°33'32.9206"N	80°51'3.4918"W	5765.28	315.460	0.40	0.36	0.17	
11639.00	89.820	341.210	6704.28	5293.46	4199.61	-4073.25	1682391.47	14365645.21	39°33'33.8136"N	80°51'3.8662"W	5850.48	315.875	1.66	-0.71	-1.51	
11734.00	90.060	342.700	6704.38	5388.44	4289.93	-4102.68	1682362.05	14365735.50	39°33'34.7068"N	80°51'4.2400"W	5935.95	316.278	1.59	0.25	1.57	
11828.00	90.030	342.760	6704.31	5482.40	4379.70	-4130.58	1682334.16	14365825.23	39°33'35.5944"N	80°51'4.5944"W	6020.25	316.677	0.07	-0.03	0.06	
11923.00	90.310	342.830	6704.02	5577.36	4470.44	-4158.68	1682306.07	14365915.94	39°33'36.4918"N	80°51'4.9513"W	6105.69	317.069	0.30	0.29	0.07	
12018.00	90.400	342.720	6703.44	5672.32	4561.18	-4186.81	1682277.95	14366006.64	39°33'37.3890"N	80°51'5.3086"W	6191.43	317.450	0.15	0.09	-0.12	
12112.00	90.680	342.610	6702.55	5766.28	4650.91	-4214.82	1682249.95	14366096.33	39°33'38.2762"N	80°51'5.6642"W	6276.60	317.816	0.32	0.30	-0.12	
12206.00	90.460	342.250	6701.62	5860.24	4740.52	-4243.19	1682221.59	14366185.90	39°33'39.1623"N	80°51'6.0246"W	6362.17	318.169	0.45	-0.23	-0.38	
12301.00	90.520	342.680	6700.80	5955.21	4831.10	-4271.82	1682192.98	14366276.45	39°33'40.0581"N	80°51'6.3882"W	6448.87	318.516	0.46	0.06	0.45	
12395.00	90.250	341.850	6700.17	6049.19	4920.63	-4300.45	1682164.36	14366365.94	39°33'40.9434"N	80°51'6.7519"W	6535.02	318.848	0.93	-0.29	-0.88	
12490.00	90.150	340.680	6699.84	6144.19	5010.59	-4330.96	1682133.86	14366455.87	39°33'41.8330"N	80°51'7.1396"W	6622.94	319.161	1.24	-0.11	-1.23	
12585.00	90.090	340.660	6699.64	6239.18	5100.24	-4362.41	1682102.43	14366545.48	39°33'42.7195"N	80°51'7.5392"W	6711.41	319.459	0.07	-0.06	-0.02	
12679.00	90.090	340.810	6699.49	6333.18	5188.98	-4393.42	1682071.42	14366634.18	39°33'43.5970"N	80°51'7.9333"W	6799.09	319.746	0.16	0.00	0.16	
12774.00	89.940	340.780	6699.47	6428.18	5278.69	-4424.67	1682040.19	14366723.86	39°33'44.4842"N	80°51'8.3304"W	6887.83	320.030	0.16	-0.16	-0.03	
12869.00	90.030	340.930	6699.49	6523.18	5368.43	-4455.83	1682009.04	14366813.57	39°33'45.3716"N	80°51'8.7264"W	6976.71	320.307	0.18	0.09	0.16	
12963.00	90.120	340.790	6699.37	6617.18	5457.24	-4486.65	1681978.24	14366902.34	39°33'46.2498"N	80°51'9.1180"W	7064.80	320.575	0.18	0.10	-0.15	
13058.00	89.720	340.840	6699.50	6712.18	5546.96	-4517.87	1681947.03	14366992.02	39°33'47.1371"N	80°51'9.5148"W	7154.01	320.838	0.42	-0.42	0.05	
13153.00	89.780	340.100	6699.92	6807.17	5636.49	-4549.62	1681915.28	14367081.52	39°33'48.0225"N	80°51'9.9184"W	7243.56	321.090	0.78	0.06	-0.78	
13247.00	90.460	341.750	6699.72	6901.17	5725.33	-4580.34	1681884.58	14367170.32	39°33'48.9009"N	80°51'10.3087"W	7332.05	321.340	1.90	0.72	1.76	
13342.00	90.060	340.630	6699.29	6996.16	5815.25	-4610.97	1681853.96	14367260.21	39°33'49.7902"N	80°51'10.6980"W	7421.47	321.589	1.25	-0.42	-1.18	
13436.00	90.580	341.580	6698.76	7090.16	5904.18	-4641.41	1681823.53	14367349.11	39°33'50.6696"N	80°51'11.0848"W	7510.13	321.828	1.15	0.55	1.01	
13531.00	90.060	340.160	6698.23	7185.16	5993.93	-4672.54	1681792.41	14367438.82	39°33'51.5571"N	80°51'11.4804"W	7599.99	322.062	1.59	-0.55	-1.49	
13625.00	90.890	341.550	6697.45	7279.15	6082.73	-4703.37	1681761.60	14367527.58	39°33'52.4352"N	80°51'11.8722"W	7689.04	322.288	1.72	0.88	1.48	

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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
13719.00	90.740	340.910	6696.12	7373.14	6171.72	-4733.61	1681731.37	14367616.53	39°33'53.3152"N	80°51'12.2565"W	7778.00	322.512	0.70	-0.16	-0.68	
13814.00	90.800	341.440	6694.84	7468.13	6261.63	-4764.26	1681700.73	14367706.41	39°33'54.2043"N	80°51'12.6460"W	7868.05	322.734	0.56	0.06	0.56	
13908.00	90.310	341.460	6693.93	7562.12	6350.74	-4794.17	1681670.84	14367795.48	39°33'55.0855"N	80°51'13.0259"W	7957.13	322.951	0.52	-0.52	0.02	
14003.00	90.220	340.100	6693.49	7657.12	6440.44	-4825.44	1681639.58	14367885.15	39°33'55.9726"N	80°51'13.4234"W	8047.62	323.158	1.43	-0.09	-1.43	
14097.00	90.860	341.540	6692.60	7751.11	6529.22	-4856.32	1681608.71	14367973.89	39°33'56.8504"N	80°51'13.8159"W	8137.23	323.359	1.68	0.68	1.53	
14192.00	90.580	340.410	6691.41	7846.10	6619.02	-4887.29	1681577.76	14368063.66	39°33'57.7385"N	80°51'14.2094"W	8227.82	323.559	1.23	-0.29	-1.19	
14286.00	90.400	340.590	6690.61	7940.09	6707.63	-4918.66	1681546.39	14368152.23	39°33'58.6147"N	80°51'14.6082"W	8317.78	323.748	0.27	-0.19	0.19	
14381.00	90.310	340.370	6690.02	8035.09	6797.16	-4950.40	1681514.66	14368241.73	39°33'59.5001"N	80°51'15.0116"W	8408.80	323.934	0.25	-0.09	-0.23	
14475.00	90.180	340.230	6689.62	8129.08	6885.66	-4982.09	1681482.99	14368330.19	39°34'0.3753"N	80°51'15.4144"W	8499.03	324.113	0.20	-0.14	-0.15	
14569.00	90.280	340.860	6689.24	8223.07	6974.29	-5013.40	1681451.69	14368418.79	39°34'1.2517"N	80°51'15.8124"W	8589.23	324.290	0.68	0.11	0.67	
14664.00	89.080	340.900	6689.77	8318.07	7064.05	-5044.52	1681420.59	14368508.51	39°34'2.1393"N	80°51'16.2078"W	8680.32	324.469	1.26	-1.26	0.04	
14759.00	89.260	341.590	6691.15	8413.06	7154.00	-5075.06	1681390.06	14368598.42	39°34'3.0288"N	80°51'16.5959"W	8771.31	324.648	0.75	0.19	0.73	
14853.00	88.180	340.940	6693.25	8507.03	7242.99	-5105.24	1681359.89	14368687.38	39°34'3.9088"N	80°51'16.9795"W	8861.40	324.822	1.34	-1.15	-0.69	
14948.00	89.600	340.870	6695.09	8602.01	7332.69	-5136.47	1681328.67	14368777.04	39°34'4.7958"N	80°51'17.3764"W	8952.75	324.989	1.52	1.49	-0.28	
15042.00	88.890	340.520	6696.32	8696.00	7421.34	-5167.70	1681297.46	14368865.66	39°34'5.6725"N	80°51'17.7734"W	9043.31	325.149	0.77	-0.76	-0.16	
15137.00	89.350	340.810	6697.78	8790.98	7510.97	-5199.15	1681266.02	14368955.25	39°34'6.5588"N	80°51'18.1731"W	9134.87	325.309	0.57	0.48	0.31	
15231.00	89.260	340.890	6698.92	8884.98	7599.77	-5229.98	1681235.20	14369044.01	39°34'7.4369"N	80°51'18.5650"W	9225.46	325.465	0.13	-0.10	0.09	
15326.00	89.230	341.000	6700.18	8979.97	7689.55	-5260.99	1681204.20	14369133.76	39°34'8.3247"N	80°51'18.9592"W	9317.04	325.621	0.12	-0.03	0.12	
15421.00	89.970	340.910	6700.84	9074.96	7779.35	-5291.99	1681173.21	14369223.52	39°34'9.2127"N	80°51'19.3532"W	9408.69	325.774	0.78	0.78	-0.09	
15515.00	89.970	340.360	6700.89	9168.96	7868.03	-5323.16	1681142.06	14369312.17	39°34'10.0897"N	80°51'19.7494"W	9499.58	325.919	0.59	0.00	-0.59	
15609.00	90.060	340.910	6700.86	9262.96	7956.71	-5354.33	1681110.90	14369400.81	39°34'10.9666"N	80°51'20.1455"W	9590.52	326.062	0.59	0.10	0.59	
15704.00	89.820	339.250	6700.96	9357.94	8046.03	-5386.69	1681078.55	14369490.09	39°34'11.8498"N	80°51'20.5570"W	9682.72	326.198	1.77	-0.25	-1.75	
15798.00	89.910	340.420	6701.18	9451.92	8134.26	-5419.10	1681046.16	14369578.29	39°34'12.7224"N	80°51'20.9690"W	9774.09	326.328	1.25	0.10	1.24	
15893.00	89.910	340.890	6701.33	9546.91	8223.90	-5450.57	1681014.70	14369667.89	39°34'13.6088"N	80°51'21.3690"W	9866.16	326.465	0.49	0.00	0.49	
15987.00	90.120	340.260	6701.31	9640.91	8312.55	-5481.83	1680983.45	14369756.50	39°34'14.4854"N	80°51'21.7664"W	9957.35	326.597	0.71	0.22	-0.67	
16081.00	89.970	340.170	6701.23	9734.90	8401.00	-5513.65	1680951.65	14369844.92	39°34'15.3601"N	80°51'22.1709"W	10048.73	326.723	0.19	-0.16	-0.10	
16176.00	90.310	340.740	6701.00	9829.89	8490.52	-5545.43	1680919.88	14369934.41	39°34'16.2454"N	80°51'22.5749"W	10141.04	326.850	0.70	0.36	0.60	
16270.00	89.820	340.200	6700.90	9923.88	8579.11	-5576.85	1680888.47	14370022.97	39°34'17.1215"N	80°51'22.9744"W	10232.42	326.974	0.78	-0.52	-0.57	
16364.00	90.460	340.070	6700.67	10017.87	8667.52	-5608.79	1680856.54	14370111.34	39°34'17.9957"N	80°51'23.3805"W	10323.98	327.093	0.69	0.68	-0.14	
16459.00	90.400	340.980	6699.95	10112.86	8757.08	-5640.47	1680824.88	14370200.86	39°34'18.8814"N	80°51'23.7831"W	10416.40	327.214	0.96	-0.06	0.96	

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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
16553.00	90.340	341.020	6699.35	10206.86	8845.96	-5671.07	1680794.29	14370289.70	39°34'19.7603"N	80°51'24.1721"W	10507.71	327.336	0.08	-0.06	0.04	
16648.00	90.060	340.390	6699.01	10301.86	8935.62	-5702.46	1680762.91	14370379.33	39°34'20.6469"N	80°51'24.5711"W	10600.16	327.455	0.73	-0.29	-0.66	
16742.00	90.520	341.230	6698.54	10395.85	9024.40	-5733.36	1680732.03	14370468.07	39°34'21.5248"N	80°51'24.9639"W	10691.64	327.571	1.02	0.49	0.89	
16837.00	90.710	341.200	6697.52	10490.85	9114.33	-5763.95	1680701.45	14370557.97	39°34'22.4141"N	80°51'25.3527"W	10783.97	327.691	0.20	0.20	-0.03	
16932.00	90.680	341.630	6696.37	10585.84	9204.37	-5794.22	1680671.18	14370647.97	39°34'23.3045"N	80°51'25.7375"W	10876.28	327.809	0.45	-0.03	0.45	
17026.00	90.680	341.330	6695.25	10679.83	9293.49	-5824.08	1680641.34	14370737.06	39°34'24.1858"N	80°51'26.1169"W	10967.63	327.925	0.32	0.00	-0.32	
17121.00	90.400	341.310	6694.36	10774.83	9383.49	-5854.50	1680610.93	14370827.02	39°34'25.0757"N	80°51'26.5036"W	11060.06	328.039	0.30	-0.29	-0.02	
17215.00	90.580	341.010	6693.55	10868.82	9472.45	-5884.86	1680580.59	14370915.94	39°34'25.9553"N	80°51'26.8894"W	11151.63	328.149	0.37	0.19	-0.32	
17310.00	90.030	340.100	6693.05	10963.82	9562.03	-5916.48	1680548.97	14371005.48	39°34'26.8412"N	80°51'27.2915"W	11244.42	328.253	1.12	-0.58	-0.96	
17404.00	90.060	340.310	6692.97	11057.80	9650.47	-5948.31	1680517.15	14371093.89	39°34'27.7158"N	80°51'27.6962"W	11336.40	328.351	0.23	0.03	0.22	
17498.00	90.490	340.850	6692.52	11151.80	9739.12	-5979.57	1680485.91	14371182.51	39°34'28.5924"N	80°51'28.0936"W	11428.29	328.451	0.73	0.46	0.57	
17593.00	90.430	340.730	6691.76	11246.79	9828.83	-6010.82	1680454.67	14371272.18	39°34'29.4795"N	80°51'28.4909"W	11521.11	328.552	0.14	-0.06	-0.13	
17687.00	89.940	339.940	6691.46	11340.79	9917.34	-6042.46	1680423.05	14371360.66	39°34'30.3548"N	80°51'28.8931"W	11613.14	328.647	0.99	-0.52	-0.84	
17782.00	90.030	339.950	6691.48	11435.77	10006.58	-6075.03	1680390.48	14371449.87	39°34'31.2373"N	80°51'29.3073"W	11706.31	328.738	0.10	0.09	0.01	
17876.00	90.150	340.100	6691.33	11529.75	10094.93	-6107.15	1680358.38	14371538.18	39°34'32.1110"N	80°51'29.7156"W	11798.51	328.827	0.20	0.13	0.16	
17971.00	90.740	341.210	6690.59	11624.74	10184.56	-6138.61	1680326.93	14371627.77	39°34'32.9973"N	80°51'30.1157"W	11891.50	328.921	1.32	0.62	1.17	
18065.00	89.850	340.250	6690.11	11718.74	10273.29	-6169.63	1680295.92	14371716.47	39°34'33.8747"N	80°51'30.5101"W	11983.53	329.013	1.39	-0.95	-1.02	
18160.00	90.250	340.200	6690.03	11813.73	10362.69	-6201.78	1680263.79	14371805.83	39°34'34.7588"N	80°51'30.9187"W	12076.73	329.101	0.42	0.42	-0.05	
18254.00	90.150	340.160	6689.70	11907.72	10451.12	-6233.65	1680231.93	14371894.22	39°34'35.6332"N	80°51'31.3240"W	12168.99	329.186	0.11	-0.11	-0.04	
18349.00	90.620	341.000	6689.06	12002.71	10540.71	-6265.23	1680200.38	14371983.78	39°34'36.5192"N	80°51'31.7256"W	12262.13	329.273	1.01	0.49	0.88	
18444.00	89.850	339.930	6688.67	12097.70	10630.24	-6297.00	1680168.61	14372073.27	39°34'37.4045"N	80°51'32.1294"W	12355.33	329.359	1.39	-0.81	-1.13	
18538.00	90.280	340.050	6688.56	12191.68	10718.57	-6329.16	1680136.45	14372161.56	39°34'38.2779"N	80°51'32.5384"W	12447.73	329.439	0.47	0.46	0.13	
18633.00	90.340	340.340	6688.05	12286.67	10807.95	-6361.35	1680104.28	14372250.91	39°34'39.1618"N	80°51'32.9477"W	12541.07	329.520	0.31	0.06	0.31	
18727.00	90.650	340.830	6687.24	12380.66	10896.60	-6392.60	1680073.05	14372339.52	39°34'40.0384"N	80°51'33.3450"W	12633.33	329.602	0.62	0.33	0.52	
18821.00	90.220	340.500	6686.53	12474.66	10985.29	-6423.72	1680041.94	14372428.18	39°34'40.9155"N	80°51'33.7407"W	12725.60	329.683	0.58	-0.46	-0.35	
18916.00	90.520	340.660	6685.91	12569.65	11074.89	-6455.30	1680010.37	14372517.74	39°34'41.8015"N	80°51'34.1422"W	12818.89	329.763	0.36	0.32	0.17	
19010.00	90.120	340.560	6685.39	12663.65	11163.55	-6486.51	1679979.17	14372606.37	39°34'42.6783"N	80°51'34.5390"W	12911.22	329.842	0.44	-0.43	-0.11	
19105.00	90.030	341.270	6685.26	12758.65	11253.33	-6517.57	1679948.12	14372696.11	39°34'43.5660"N	80°51'34.9339"W	13004.47	329.922	0.75	-0.09	0.75	
19200.00	90.340	340.770	6684.96	12853.64	11343.16	-6548.47	1679917.24	14372785.91	39°34'44.4544"N	80°51'35.3267"W	13097.70	330.002	0.62	0.33	-0.53	
19294.00	90.370	340.820	6684.37	12947.64	11431.93	-6579.39	1679886.33	14372874.64	39°34'45.3322"N	80°51'35.7199"W	13190.05	330.078	0.06	0.03	0.05	

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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
19389.00	90.520	340.950	6683.64	13042.64	11521.69	-6610.50	1679855.23	14372964.37	39°34'46.2197"N	80°51'36.1154"W	13283.37	330.155	0.21	0.16	0.14	
19483.00	90.280	340.540	6682.98	13136.63	11610.43	-6641.50	1679824.25	14373053.07	39°34'47.0972"N	80°51'36.5095"W	13375.78	330.229	0.51	-0.26	-0.44	
19578.00	90.340	340.680	6682.47	13231.63	11700.04	-6673.04	1679792.72	14373142.64	39°34'47.9834"N	80°51'36.9105"W	13469.24	330.302	0.16	0.06	0.15	
19672.00	90.370	340.480	6681.88	13325.62	11788.69	-6704.29	1679761.48	14373231.26	39°34'48.8600"N	80°51'37.3079"W	13561.74	330.373	0.22	0.03	-0.21	
19767.00	90.120	340.730	6681.48	13420.62	11878.30	-6735.84	1679729.94	14373320.83	39°34'49.7461"N	80°51'37.7090"W	13655.24	330.444	0.37	-0.26	0.26	
19861.00	90.250	340.460	6681.17	13514.62	11966.96	-6767.07	1679698.73	14373409.46	39°34'50.6228"N	80°51'38.1061"W	13747.77	330.513	0.32	0.14	-0.29	
19955.00	89.750	340.090	6681.17	13608.61	12055.44	-6798.79	1679667.01	14373497.90	39°34'51.4978"N	80°51'38.5096"W	13840.42	330.579	0.66	-0.53	-0.39	
20050.00	90.340	340.660	6681.10	13703.60	12144.92	-6830.70	1679635.12	14373587.35	39°34'52.3827"N	80°51'38.9153"W	13934.04	330.645	0.86	0.62	0.60	
20144.00	90.220	340.650	6680.64	13797.59	12233.61	-6861.84	1679603.99	14373676.01	39°34'53.2597"N	80°51'39.3112"W	14026.62	330.712	0.13	-0.13	-0.01	
20238.00	90.340	340.300	6680.18	13891.59	12322.21	-6893.25	1679572.59	14373764.56	39°34'54.1358"N	80°51'39.7107"W	14119.27	330.777	0.39	0.13	-0.37	
20333.00	90.280	340.860	6679.67	13986.58	12411.80	-6924.84	1679541.02	14373854.12	39°34'55.0217"N	80°51'40.1124"W	14212.89	330.842	0.59	-0.06	0.59	
20427.00	90.430	340.800	6679.08	14080.58	12500.59	-6955.71	1679510.16	14373942.87	39°34'55.8997"N	80°51'40.5048"W	14305.47	330.907	0.17	0.16	-0.06	
20522.00	90.120	340.670	6678.63	14175.58	12590.27	-6987.05	1679478.83	14374032.52	39°34'56.7865"N	80°51'40.9034"W	14399.09	330.972	0.35	-0.33	-0.14	
20617.00	90.310	340.660	6678.27	14270.57	12679.91	-7018.50	1679447.39	14374122.12	39°34'57.6729"N	80°51'41.3033"W	14492.74	331.035	0.20	0.20	-0.01	
20711.00	90.000	342.240	6678.02	14364.57	12769.02	-7048.41	1679417.50	14374211.20	39°34'58.5541"N	80°51'41.6835"W	14585.19	331.102	1.71	-0.33	1.68	
20806.00	90.090	341.770	6677.94	14459.55	12859.37	-7077.75	1679388.16	14374301.51	39°34'59.4475"N	80°51'42.0566"W	14678.49	331.172	0.50	0.09	-0.49	
20900.00	89.880	341.370	6677.97	14553.55	12948.55	-7107.47	1679358.46	14374390.66	39°35'0.3293"N	80°51'42.4344"W	14770.96	331.238	0.48	-0.22	-0.43	
20995.00	90.310	341.760	6677.81	14648.55	13038.68	-7137.51	1679328.43	14374480.75	39°35'1.2205"N	80°51'42.8163"W	14864.43	331.303	0.61	0.45	0.41	
21089.00	90.580	341.790	6677.08	14742.54	13127.96	-7166.91	1679299.04	14374569.99	39°35'2.1033"N	80°51'43.1900"W	14956.87	331.369	0.29	0.29	0.03	
21184.00	90.120	341.990	6676.50	14837.53	13218.25	-7196.44	1679269.52	14374660.25	39°35'2.9961"N	80°51'43.5654"W	15050.28	331.435	0.53	-0.48	0.21	
21278.00	90.340	341.870	6676.12	14931.51	13307.61	-7225.60	1679240.38	14374749.57	39°35'3.8798"N	80°51'43.9360"W	15142.71	331.499	0.27	0.23	-0.13	
21372.00	90.280	341.640	6675.61	15025.51	13396.89	-7255.03	1679210.96	14374838.81	39°35'4.7625"N	80°51'44.3102"W	15235.22	331.562	0.25	-0.06	-0.24	
21467.00	90.000	341.660	6675.38	15120.50	13487.05	-7284.93	1679181.07	14374928.95	39°35'5.6541"N	80°51'44.6904"W	15328.76	331.625	0.30	-0.29	0.02	
21561.00	90.430	341.690	6675.03	15214.50	13576.29	-7314.49	1679151.52	14375018.14	39°35'6.5365"N	80°51'45.0661"W	15421.33	331.686	0.46	0.46	0.03	
21655.00	90.000	341.290	6674.68	15308.49	13665.42	-7344.33	1679121.69	14375107.24	39°35'7.4179"N	80°51'45.4455"W	15513.96	331.745	0.62	-0.46	-0.43	
21750.00	90.120	340.930	6674.58	15403.49	13755.31	-7375.09	1679090.95	14375197.09	39°35'8.3067"N	80°51'45.8366"W	15607.70	331.801	0.40	0.13	-0.38	
21844.00	90.310	341.290	6674.22	15497.49	13844.24	-7405.52	1679060.53	14375285.99	39°35'9.1861"N	80°51'46.2236"W	15700.47	331.857	0.43	0.20	0.38	
21938.00	90.370	341.680	6673.67	15591.49	13933.38	-7435.37	1679030.69	14375375.09	39°35'10.0675"N	80°51'46.6031"W	15793.15	331.914	0.42	0.06	0.41	
22033.00	89.630	341.570	6673.67	15686.48	14023.53	-7465.32	1679000.76	14375465.21	39°35'10.9590"N	80°51'46.9838"W	15886.80	331.972	0.79	-0.78	-0.12	
22128.00	90.030	341.550	6673.95	15781.48	14113.65	-7495.36	1678970.72	14375555.29	39°35'11.8501"N	80°51'47.3659"W	15980.48	332.028	0.42	0.42	-0.02	

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Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Cider Run Unit 1H
Field	Tyler		API	47-095-02839-0000
Facility	Ed Yost Pad		Wellbore	Cider Run Unit 1H AWB
Slot	Slot A			

WELLPATH DATA (272 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
22222.00	89.970	341.610	6673.95	15875.47	14202.84	-7525.07	1678941.03	14375644.44	39°35'12.7320"N	80°51'47.7435"W	16073.18	332.084	0.09	-0.06	0.06	
22317.00	90.000	341.470	6673.97	15970.47	14292.95	-7555.15	1678910.96	14375734.52	39°35'13.6230"N	80°51'48.1260"W	16166.90	332.139	0.15	0.03	-0.15	
22412.00	90.120	341.370	6673.87	16065.47	14383.00	-7585.42	1678880.70	14375824.53	39°35'14.5135"N	80°51'48.5109"W	16260.66	332.193	0.16	0.13	-0.11	
22506.00	90.000	341.570	6673.77	16159.47	14472.12	-7615.29	1678850.84	14375913.62	39°35'15.3948"N	80°51'48.8907"W	16353.44	332.246	0.25	-0.13	0.21	
22601.00	90.150	341.740	6673.65	16254.46	14562.30	-7645.19	1678820.95	14376003.76	39°35'16.2864"N	80°51'49.2709"W	16447.17	332.301	0.24	0.16	0.18	
22696.00	89.880	341.430	6673.62	16349.46	14652.43	-7675.20	1678790.96	14376093.86	39°35'17.1777"N	80°51'49.6524"W	16540.93	332.354	0.43	-0.28	-0.33	
22790.00	89.750	340.970	6673.93	16443.46	14741.41	-7705.49	1678760.67	14376182.80	39°35'18.0576"N	80°51'50.0376"W	16633.82	332.403	0.51	-0.14	-0.49	
22884.00	90.340	341.720	6673.85	16537.46	14830.48	-7735.56	1678730.62	14376271.83	39°35'18.9382"N	80°51'50.4200"W	16726.68	332.453	1.02	0.63	0.80	
22979.00	90.030	341.370	6673.55	16632.45	14920.59	-7765.63	1678700.56	14376361.91	39°35'19.8293"N	80°51'50.8024"W	16820.49	332.505	0.49	-0.33	-0.37	
23073.00	90.120	341.470	6673.42	16726.45	15009.69	-7795.59	1678670.62	14376450.97	39°35'20.7103"N	80°51'51.1832"W	16913.37	332.554	0.14	0.10	0.11	
23168.00	89.970	341.440	6673.35	16821.45	15099.76	-7825.80	1678640.42	14376541.00	39°35'21.6009"N	80°51'51.5674"W	17007.23	332.604	0.16	-0.16	-0.03	
23262.00	89.820	341.180	6673.52	16915.45	15188.80	-7855.92	1678610.31	14376630.01	39°35'22.4814"N	80°51'51.9504"W	17100.15	332.651	0.32	-0.16	-0.28	
23357.00	90.030	341.090	6673.65	17010.45	15278.70	-7886.64	1678579.60	14376719.87	39°35'23.3703"N	80°51'52.3411"W	17194.12	332.698	0.24	0.22	-0.09	
23451.00	89.750	341.540	6673.83	17104.45	15367.74	-7916.75	1678549.50	14376808.88	39°35'24.2508"N	80°51'52.7240"W	17287.06	332.745	0.56	-0.30	0.48	
23546.00	89.910	341.140	6674.11	17199.44	15457.75	-7947.15	1678519.12	14376898.85	39°35'25.1408"N	80°51'53.1105"W	17381.00	332.791	0.45	0.17	-0.42	
23640.00	89.970	341.220	6674.21	17293.44	15546.72	-7977.47	1678488.81	14376987.79	39°35'26.0206"N	80°51'53.4961"W	17474.00	332.836	0.11	0.06	0.09	
23735.00	89.910	341.510	6674.31	17388.44	15636.74	-8007.83	1678458.46	14377077.77	39°35'26.9108"N	80°51'53.8822"W	17567.95	332.882	0.31	-0.06	0.31	
23829.00	89.600	341.110	6674.71	17482.44	15725.78	-8037.95	1678428.35	14377166.78	39°35'27.7912"N	80°51'54.2652"W	17660.94	332.927	0.54	-0.33	-0.43	
23924.00	90.000	341.410	6675.04	17577.44	15815.75	-8068.47	1678397.84	14377256.71	39°35'28.6808"N	80°51'54.6534"W	17754.94	332.971	0.53	0.42	0.32	
24018.00	89.820	341.320	6675.19	17671.44	15904.82	-8098.51	1678367.82	14377345.74	39°35'29.5616"N	80°51'55.0353"W	17847.94	333.015	0.21	-0.19	-0.10	
24113.00	89.780	341.310	6675.52	17766.44	15994.81	-8128.94	1678337.40	14377435.70	39°35'30.4514"N	80°51'55.4224"W	17941.95	333.059	0.04	-0.04	-0.01	
24208.00	89.970	341.260	6675.73	17861.43	16084.79	-8159.42	1678306.93	14377525.64	39°35'31.3411"N	80°51'55.8100"W	18035.98	333.102	0.21	0.20	-0.05	
24302.00	90.000	341.530	6675.75	17955.43	16173.87	-8189.41	1678276.95	14377614.69	39°35'32.2220"N	80°51'56.1914"W	18129.00	333.145	0.29	0.03	0.29	
24397.00	89.940	341.440	6675.80	18050.43	16263.96	-8219.58	1678246.79	14377704.74	39°35'33.1128"N	80°51'56.5750"W	18223.00	333.189	0.11	-0.06	-0.09	
24491.00	89.820	341.310	6676.00	18144.43	16353.03	-8249.60	1678216.78	14377793.78	39°35'33.9936"N	80°51'56.9568"W	18316.05	333.230	0.19	-0.13	-0.14	
24585.00	89.850	341.140	6676.27	18238.43	16442.03	-8279.86	1678186.54	14377882.74	39°35'34.8736"N	80°51'57.3415"W	18409.14	333.271	0.18	0.03	-0.18	
24679.00	89.940	341.530	6676.44	18332.43	16531.09	-8309.94	1678156.47	14377971.76	39°35'35.7542"N	80°51'57.7241"W	18502.21	333.312	0.43	0.10	0.41	
24774.00	89.820	341.230	6676.64	18427.43	16621.11	-8340.27	1678126.15	14378061.75	39°35'36.6444"N	80°51'58.1099"W	18596.28	333.353	0.34	-0.13	-0.32	
24868.00	89.940	341.530	6676.84	18521.42	16710.19	-8370.28	1678096.15	14378150.80	39°35'37.5253"N	80°51'58.4916"W	18689.36	333.393	0.34	0.13	0.32	
24963.00	89.780	341.700	6677.07	18616.42	16800.34	-8400.25	1678066.20	14378240.91	39°35'38.4167"N	80°51'58.8726"W	18783.39	333.435	0.25	-0.17	0.18	

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (272 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
24995.00	89.940	341.560	6677.15	18648.42	16830.71	-8410.33	1678056.12	14378271.27	39°35'38.7170"N	80°51'59.0008"W	18815.06	333.449	0.66	0.50	-0.44	
25020.00‡	89.940	341.560	6677.17	18673.42	16854.43	-8418.24	1678048.21	14378294.98	39°35'38.9515"N	80°51'59.1014"W	18839.81	333.459	0.00	0.00	0.00	Projected MD at TD: 25020'

HOLE & CASING SECTIONS - Ref Wellbore: Cider Run Unit 1H AWB Ref Wellpath: Cider Run Unit 1H AWP Proj: 25020'

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	0.07	-0.12
17.5in Open Hole	130.00	381.00	251.00	130.00	381.00	0.07	-0.12	0.72	-0.65
13.375in Casing Surface	30.00	361.00	331.00	30.00	361.00	0.00	0.00	0.59	-0.45
12.25in Open Hole	381.00	3671.00	3290.00	381.00	3411.83	0.72	-0.65	-67.23	-1193.94
9.625in Casing Intermediate	30.00	3641.00	3611.00	30.00	3383.86	0.00	0.00	-65.51	-1183.22
8.75in Open Hole	3671.00	6596.00	2925.00	3411.83	6082.89	-67.23	-1193.94	-143.17	-2377.87
8.5in Open Hole	6596.00	25020.00	18424.00	6082.89	6677.17	-143.17	-2377.87	16854.43	-8418.24
5.5in Casing Production	30.00	25000.00	24970.00	30.00	6677.15	0.00	0.00	16835.46	-8411.91

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Cider Run Unit 1H BHL Rev-2	6645.30	16851.34	-8422.30	1678044.16	14378291.89	39°35'38.9210"N	80°51'59.1533"W	point
Cider Run Unit 1H POE Rev-1	6706.00	267.48	-2737.51	1683726.67	14361714.65	39°32'54.9292"N	80°50'46.8978"W	point
Cider Run Unit 1H LP Rev-2	6736.00	465.09	-2805.25	1683658.96	14361912.18	39°32'56.8833"N	80°50'47.7582"W	point
Cider Run Unit 1H 50' L/R Hard Line	7000.00	8559.41	-5579.91	1680885.41	14370003.27	39°34'16.9268"N	80°51'23.0138"W	rectangle
2D Rectangle 17531.2 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Cider Run Unit 1H AWB Ref Wellpath: Cider Run Unit 1H AWP Proj: 25020'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	296.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-296')	Cider Run Unit 1H AWB	3/2/2023
296.00	3589.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (296')(504'-3589')	Cider Run Unit 1H AWB	3/2/2023
3589.00	6520.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3589')(3685'-6520')	Cider Run Unit 1H AWB	3/2/2023
6520.00	25020.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6520')(6571'-24995')	Cider Run Unit 1H AWB	3/2/2023

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Actual Wellpath Report

Cider Run Unit 1H AWP Proj: 25020'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Cider Run Unit 1H
Field	Tyler	API	47-095-02839-0000
Facility	Ed Yost Pad	Wellbore	Cider Run Unit 1H AWB
Slot	Slot A		

COMMENTS
<p>Wellpath general comments API: 47-095-02839-0000 BH Job #: 111702009 Rig: H&P 519 Duration: 3/3/2023-3/11/2023 Gyrodatta MS Gyro <17-1/2"> (100'-296') APS EM <12-1/4"> (296')(504'-3589') APS EM <8-3/4"> (3589')(3685'-6520') BH AT Curve <8-1/2"> (6520')(6571'-24995') Sycamore: 6998' MD Middlesex: 7145' MD Burkett: 7293' MD Tully: 7335' MD Marcellus POE: 7486' MD Projected MD at TD: 25020'</p>

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