



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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 JAN 23 2023
 WV Department of
 Environmental Protection



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	6/9/2022 at 4:54:04 PM
Convergence at slot	0.03° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-37.25	-26.51	1653136.87	14360166.49	39°32'39.9562"N	80°57'17.5628"W
Facility Reference Pt			1653163.37	14360203.73	39°32'40.3242"N	80°57'17.2242"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	1002.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1002.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #04)	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	161.17°



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WELLPATH DATA (233 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00	0.000	241.070	0.00	0.00	0.00	0.00	1653136.87	14360166.49	39°32'39.9562"N	80°57'17.5628"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	241.070	30.00	0.00	0.00	0.00	1653136.87	14360166.49	39°32'39.9562"N	80°57'17.5628"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.200	241.070	100.00	0.02	-0.06	-0.11	1653136.76	14360166.43	39°32'39.9556"N	80°57'17.5642"W	0.12	241.070	0.29	0.29	0.00	Gyrodata MS Gyro <17-1/2"> (100'-300')
200.00	0.180	265.110	200.00	0.01	-0.16	-0.42	1653136.45	14360166.33	39°32'39.9546"N	80°57'17.5682"W	0.44	249.342	0.08	-0.02	24.04	
300.00	0.410	269.850	300.00	-0.14	-0.17	-0.93	1653135.94	14360166.32	39°32'39.9545"N	80°57'17.5747"W	0.95	259.572	0.23	0.23	4.74	
419.00	0.270	298.090	419.00	-0.48	-0.04	-1.60	1653135.27	14360166.45	39°32'39.9558"N	80°57'17.5833"W	1.60	268.559	0.18	-0.12	23.73	APS EM <12-1/4"> (300')(419'-2531')
510.00	0.720	276.670	509.99	-0.88	0.13	-2.36	1653134.51	14360166.62	39°32'39.9574"N	80°57'17.5930"W	2.36	273.080	0.53	0.49	-23.54	
689.00	0.640	289.810	688.98	-1.99	0.60	-4.42	1653132.45	14360167.09	39°32'39.9621"N	80°57'17.6192"W	4.46	277.688	0.10	-0.04	7.34	
779.00	0.600	286.150	778.97	-2.57	0.90	-5.34	1653131.53	14360167.39	39°32'39.9651"N	80°57'17.6311"W	5.42	279.538	0.06	-0.04	-4.07	
869.00	0.340	283.450	868.97	-2.99	1.09	-6.06	1653130.82	14360167.58	39°32'39.9670"N	80°57'17.6401"W	6.15	280.213	0.29	-0.29	-3.00	
961.00	1.360	283.580	960.96	-3.72	1.41	-7.38	1653129.49	14360167.90	39°32'39.9701"N	80°57'17.6571"W	7.52	280.819	1.11	1.11	0.14	
1051.00	2.640	281.410	1050.90	-5.33	2.07	-10.45	1653126.42	14360168.56	39°32'39.9767"N	80°57'17.6963"W	10.66	281.211	1.42	1.42	-2.41	
1146.00	4.410	280.310	1145.72	-8.22	3.16	-16.19	1653120.69	14360169.65	39°32'39.9874"N	80°57'17.7695"W	16.50	281.038	1.86	1.86	-1.16	
1241.00	5.820	281.680	1240.34	-12.44	4.79	-24.50	1653112.38	14360171.28	39°32'40.0036"N	80°57'17.8756"W	24.97	281.055	1.49	1.48	1.44	
1335.00	7.850	282.120	1333.67	-18.16	7.10	-35.45	1653101.44	14360173.59	39°32'40.0265"N	80°57'18.0153"W	36.15	281.327	2.16	2.16	0.47	
1429.00	10.380	282.210	1426.47	-25.83	10.24	-50.00	1653086.89	14360176.73	39°32'40.0576"N	80°57'18.2011"W	51.04	281.573	2.69	2.69	0.10	
1524.00	13.040	281.760	1519.49	-35.70	14.23	-68.86	1653068.03	14360180.72	39°32'40.0972"N	80°57'18.4418"W	70.32	281.679	2.80	2.80	-0.47	
1619.00	14.880	279.930	1611.68	-47.02	18.52	-91.37	1653045.53	14360185.01	39°32'40.1397"N	80°57'18.7291"W	93.23	281.460	1.99	1.94	-1.93	
1713.00	16.990	278.010	1702.06	-59.03	22.52	-116.86	1653020.05	14360189.00	39°32'40.1793"N	80°57'19.0545"W	119.01	280.907	2.31	2.24	-2.04	
1808.00	17.200	276.120	1792.86	-71.22	25.95	-144.57	1652992.35	14360192.43	39°32'40.2133"N	80°57'19.4082"W	146.88	280.176	0.63	0.22	-1.99	
1902.00	17.560	275.140	1882.57	-82.85	28.70	-172.52	1652964.42	14360195.18	39°32'40.2407"N	80°57'19.7648"W	174.89	279.446	0.49	0.38	-1.04	
1997.00	18.170	272.490	1972.99	-94.06	30.63	-201.59	1652935.36	14360197.11	39°32'40.2599"N	80°57'20.1359"W	203.90	278.639	1.07	0.64	-2.79	
2092.00	18.530	271.490	2063.16	-104.68	31.67	-231.48	1652905.49	14360198.14	39°32'40.2702"N	80°57'20.5174"W	233.63	277.790	0.50	0.38	-1.05	
2186.00	17.860	272.900	2152.46	-115.21	32.78	-260.81	1652876.17	14360199.26	39°32'40.2814"N	80°57'20.8918"W	262.86	277.164	0.85	-0.71	1.50	
2281.00	17.680	273.060	2242.93	-125.98	34.29	-289.76	1652847.23	14360200.77	39°32'40.2965"N	80°57'21.2614"W	291.78	276.749	0.20	-0.19	0.17	
2375.00	16.810	272.080	2332.70	-136.15	35.55	-317.60	1652819.40	14360202.02	39°32'40.3090"N	80°57'21.6167"W	319.58	276.386	0.98	-0.93	-1.04	
2470.00	17.100	272.180	2423.57	-146.06	36.58	-345.28	1652791.73	14360203.05	39°32'40.3193"N	80°57'21.9701"W	347.21	276.047	0.31	0.31	0.11	
2531.00	16.960	271.770	2481.90	-152.41	37.19	-363.14	1652773.88	14360203.67	39°32'40.3255"N	80°57'22.1980"W	365.04	275.848	0.30	-0.23	-0.67	
2655.00	16.730	268.240	2600.58	-164.01	37.20	-399.05	1652737.98	14360203.68	39°32'40.3258"N	80°57'22.6565"W	400.78	275.326	0.85	-0.19	-2.85	APS EM <8-3/4"> (2531')(2655'-5367')
2750.00	15.310	276.100	2691.90	-173.31	38.11	-425.20	1652711.84	14360204.59	39°32'40.3349"N	80°57'22.9902"W	426.90	275.122	2.73	-1.49	8.27	



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Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH DATA (233 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
2844.00	14.540	281.620	2782.73	-184.52	41.81	-449.10	1652687.95	14360208.28	39°32'40.3716"N	80°57'23.2952"W	451.04	275.319	1.72	-0.82	5.87	
2938.00	16.360	277.790	2873.34	-196.44	45.98	-473.77	1652663.29	14360212.45	39°32'40.4129"N	80°57'23.6102"W	476.00	275.543	2.22	1.94	-4.07	
3033.00	17.660	275.660	2964.18	-208.41	49.22	-501.37	1652635.70	14360215.69	39°32'40.4450"N	80°57'23.9625"W	503.78	275.606	1.52	1.37	-2.24	
3127.00	17.530	281.170	3053.79	-221.40	53.37	-529.45	1652607.63	14360219.83	39°32'40.4862"N	80°57'24.3209"W	532.13	275.756	1.78	-0.14	5.86	
3224.00	16.980	281.740	3146.42	-235.90	59.08	-557.65	1652579.45	14360225.54	39°32'40.5427"N	80°57'24.6808"W	560.77	276.047	0.59	-0.57	0.59	
3318.00	16.280	277.910	3236.49	-248.81	63.68	-584.14	1652552.97	14360230.15	39°32'40.5884"N	80°57'25.0189"W	587.60	276.222	1.38	-0.74	-4.07	
3413.00	15.490	274.720	3327.86	-259.87	66.56	-609.97	1652527.14	14360233.02	39°32'40.6169"N	80°57'25.3486"W	613.59	276.228	1.24	-0.83	-3.36	
3507.00	16.240	280.510	3418.29	-271.33	69.99	-635.41	1652501.72	14360236.45	39°32'40.6510"N	80°57'25.6733"W	639.25	276.286	1.86	0.80	6.16	
3602.00	16.130	280.940	3509.52	-284.39	74.92	-661.42	1652475.71	14360241.38	39°32'40.6998"N	80°57'26.0054"W	665.65	276.462	0.17	-0.12	0.45	
3696.00	15.380	276.250	3600.00	-296.16	78.75	-686.64	1652450.51	14360245.21	39°32'40.7378"N	80°57'26.3272"W	691.14	276.543	1.57	-0.80	-4.99	
3790.00	15.560	281.680	3690.59	-307.84	82.66	-711.38	1652425.78	14360249.12	39°32'40.7766"N	80°57'26.6430"W	716.16	276.628	1.55	0.19	5.78	
3885.00	17.250	293.740	3781.75	-323.85	90.92	-736.76	1652400.41	14360257.37	39°32'40.8583"N	80°57'26.9669"W	742.35	277.035	3.99	1.78	12.69	
3980.00	18.170	295.380	3872.25	-343.71	102.94	-763.03	1652374.14	14360269.39	39°32'40.9772"N	80°57'27.3023"W	769.95	277.683	1.10	0.97	1.73	
4074.00	16.370	289.640	3962.01	-362.17	113.67	-788.76	1652348.43	14360280.12	39°32'41.0834"N	80°57'27.6305"W	796.90	278.201	2.63	-1.91	-6.11	
4168.00	15.480	286.190	4052.41	-377.61	121.62	-813.28	1652323.92	14360288.06	39°32'41.1621"N	80°57'27.9435"W	822.32	278.505	1.38	-0.95	-3.67	
4263.00	14.000	280.060	4144.28	-390.44	127.17	-836.77	1652300.43	14360293.60	39°32'41.2170"N	80°57'28.2434"W	846.38	278.641	2.26	-1.56	-6.45	
4357.00	15.020	281.240	4235.28	-402.03	131.53	-859.92	1652277.30	14360297.96	39°32'41.2602"N	80°57'28.5388"W	869.92	278.696	1.13	1.09	1.26	
4452.00	15.570	281.800	4326.92	-414.70	136.53	-884.47	1652252.76	14360302.97	39°32'41.3098"N	80°57'28.8522"W	894.95	278.775	0.60	0.58	0.59	
4546.00	14.330	275.640	4417.74	-425.95	140.26	-908.40	1652228.84	14360306.69	39°32'41.3467"N	80°57'29.1576"W	919.16	278.777	2.14	-1.32	-6.55	
4641.00	15.330	276.260	4509.58	-436.14	142.78	-932.58	1652204.66	14360309.21	39°32'41.3718"N	80°57'29.4663"W	943.45	278.705	1.07	1.05	0.65	
4736.00	14.900	272.000	4601.29	-445.81	144.58	-957.27	1652179.98	14360311.01	39°32'41.3896"N	80°57'29.7814"W	968.13	278.588	1.25	-0.45	-4.48	
4831.00	15.070	273.520	4693.06	-454.85	145.76	-981.80	1652155.46	14360312.19	39°32'41.4014"N	80°57'30.0946"W	992.57	278.445	0.45	0.18	1.60	
4925.00	15.800	274.250	4783.67	-464.51	147.46	-1006.76	1652130.51	14360313.89	39°32'41.4183"N	80°57'30.4132"W	1017.51	278.333	0.80	0.78	0.78	
5020.00	14.210	268.460	4875.43	-473.05	148.11	-1031.32	1652105.96	14360314.54	39°32'41.4248"N	80°57'30.7266"W	1041.90	278.172	2.30	-1.67	-6.09	
5114.00	14.630	270.950	4966.47	-480.50	147.99	-1054.72	1652082.57	14360314.42	39°32'41.4238"N	80°57'31.0254"W	1065.06	277.987	0.80	0.45	2.65	
5208.00	15.000	274.270	5057.35	-489.29	149.09	-1078.72	1652058.58	14360315.52	39°32'41.4348"N	80°57'31.3317"W	1088.98	277.869	0.98	0.39	3.53	
5303.00	13.130	267.670	5149.50	-497.17	149.57	-1101.77	1652035.54	14360316.00	39°32'41.4396"N	80°57'31.6259"W	1111.87	277.731	2.59	-1.97	-6.95	
5367.00	12.110	265.070	5211.96	-500.85	148.70	-1115.72	1652021.60	14360315.13	39°32'41.4311"N	80°57'31.8040"W	1125.59	277.591	1.82	-1.59	-4.06	
5458.00	13.610	273.950	5300.68	-507.29	148.62	-1135.91	1652001.41	14360315.05	39°32'41.4303"N	80°57'32.0618"W	1145.60	277.454	2.72	1.65	9.76	BH AT Curve <8-1/2"> (5367')(5458'-21358')
5516.00	14.930	264.200	5356.90	-511.62	148.33	-1150.16	1651987.17	14360314.76	39°32'41.4276"N	80°57'32.2436"W	1159.68	277.349	4.72	2.28	-16.81	



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5611.00	16.930	239.200	5448.35	-511.51	140.00	-1174.25	1651963.10	14360306.43	39°32'41.3454"N	80°57'32.5511"W	1182.56	276.799	7.46	2.11	-26.32	
5706.00	16.080	217.890	5539.52	-501.41	122.52	-1194.23	1651943.12	14360288.96	39°32'41.1727"N	80°57'32.8063"W	1200.49	275.858	6.40	-0.89	-22.43	
5800.00	19.960	203.680	5628.94	-482.42	97.53	-1208.68	1651928.68	14360263.98	39°32'40.9258"N	80°57'32.9909"W	1212.61	274.613	6.21	4.13	-15.12	
5894.00	25.340	194.660	5715.68	-453.79	63.34	-1220.22	1651917.14	14360229.81	39°32'40.5879"N	80°57'33.1385"W	1221.87	272.972	6.80	5.72	-9.60	
5989.00	31.820	182.070	5799.14	-413.36	18.56	-1226.29	1651911.08	14360185.04	39°32'40.1453"N	80°57'33.2161"W	1226.43	270.867	9.28	6.82	-13.25	
6084.00	38.360	170.020	5876.92	-360.72	-35.63	-1222.07	1651915.29	14360130.88	39°32'39.6098"N	80°57'33.1626"W	1222.59	268.330	10.00	6.88	-12.68	
6106.00†	40.369	168.620	5893.93	-346.90	-49.34	-1219.48	1651917.88	14360117.17	39°32'39.4743"N	80°57'33.1297"W	1220.48	267.683	9.98	9.13	-6.37	Sycamore: 6106' MD
6178.00	47.040	164.740	5945.96	-297.42	-97.68	-1207.93	1651929.42	14360068.85	39°32'38.9965"N	80°57'32.9825"W	1211.87	265.377	9.98	9.27	-5.39	
6247.00†	53.031	163.872	5990.26	-244.64	-148.56	-1193.62	1651943.73	14360017.99	39°32'38.4935"N	80°57'32.8001"W	1202.83	262.905	8.74	8.68	-1.26	Middlesex: 6247' MD
6273.00	55.290	163.580	6005.48	-223.59	-168.79	-1187.71	1651949.64	14359997.77	39°32'38.2935"N	80°57'32.7248"W	1199.64	261.912	8.74	8.69	-1.12	
6367.00	64.320	164.460	6052.71	-142.53	-246.82	-1165.39	1651971.94	14359919.76	39°32'37.5222"N	80°57'32.4404"W	1191.24	258.042	9.64	9.61	0.94	
6406.00†	67.661	164.053	6068.58	-106.96	-281.11	-1155.73	1651981.61	14359885.49	39°32'37.1833"N	80°57'32.3172"W	1189.42	256.329	8.62	8.57	-1.04	Burkett: 6406' MD
6462.00	72.460	163.500	6087.67	-54.39	-331.64	-1141.02	1651996.31	14359834.98	39°32'36.6839"N	80°57'32.1298"W	1188.24	253.793	8.62	8.57	-0.99	
6494.00†	74.210	163.676	6096.85	-23.76	-361.04	-1132.36	1652004.97	14359805.59	39°32'36.3932"N	80°57'32.0194"W	1188.52	252.315	5.49	5.47	0.55	Marcellus POE: 6494' MD
6556.00	77.600	164.010	6111.94	36.30	-418.79	-1115.63	1652021.69	14359747.86	39°32'35.8224"N	80°57'31.8062"W	1191.64	249.424	5.49	5.47	0.54	
6651.00	80.790	164.190	6129.75	129.48	-508.53	-1090.07	1652047.24	14359658.17	39°32'34.9354"N	80°57'31.4804"W	1202.85	244.990	3.36	3.36	0.19	
6746.00	87.970	162.630	6139.05	223.89	-599.07	-1063.09	1652074.21	14359567.66	39°32'34.0404"N	80°57'31.1365"W	1220.26	240.598	7.73	7.56	-1.64	
6841.00	88.800	159.950	6141.73	318.84	-689.01	-1032.63	1652104.66	14359477.76	39°32'33.1514"N	80°57'30.7482"W	1241.39	236.287	2.95	0.87	-2.82	
6936.00	88.710	159.730	6143.79	413.79	-778.17	-999.89	1652137.38	14359388.64	39°32'32.2701"N	80°57'30.3309"W	1267.02	232.108	0.25	-0.09	-0.23	
7030.00	89.050	159.490	6145.63	507.74	-866.26	-967.15	1652170.11	14359300.58	39°32'31.3993"N	80°57'29.9135"W	1298.38	228.150	0.44	0.36	-0.26	
7125.00	89.450	159.940	6146.87	602.70	-955.36	-934.22	1652203.03	14359211.52	39°32'30.5185"N	80°57'29.4937"W	1336.21	224.359	0.63	0.42	0.47	
7219.00	88.800	159.950	6148.31	696.67	-1043.65	-901.99	1652235.25	14359123.26	39°32'29.6458"N	80°57'29.0828"W	1379.41	220.836	0.69	-0.69	0.01	
7314.00	88.550	160.590	6150.50	791.63	-1133.05	-869.92	1652267.30	14359033.90	39°32'28.7621"N	80°57'28.6741"W	1428.48	217.516	0.72	-0.26	0.67	
7408.00	88.520	159.150	6152.91	885.57	-1221.27	-837.58	1652299.62	14358945.71	39°32'27.8900"N	80°57'28.2618"W	1480.90	214.443	1.53	-0.03	-1.53	
7503.00	89.350	156.660	6154.67	980.39	-1309.27	-801.86	1652335.33	14358857.74	39°32'27.0201"N	80°57'27.8063"W	1535.31	211.485	2.76	0.87	-2.62	
7598.00	89.720	153.170	6155.44	1074.81	-1395.30	-761.59	1652375.58	14358771.75	39°32'26.1697"N	80°57'27.2929"W	1589.61	208.627	3.69	0.39	-3.67	
7692.00	89.230	155.040	6156.31	1168.09	-1479.85	-720.54	1652416.62	14358687.23	39°32'25.3338"N	80°57'26.7694"W	1645.95	205.962	2.06	-0.52	1.99	
7787.00	89.080	162.670	6157.71	1262.93	-1568.38	-686.30	1652450.84	14358598.74	39°32'24.4587"N	80°57'26.3329"W	1711.97	203.634	8.03	-0.16	8.03	
7881.00	89.600	162.630	6158.79	1356.89	-1658.10	-658.27	1652478.86	14358509.06	39°32'23.5719"N	80°57'25.9757"W	1783.99	201.653	0.55	0.55	-0.04	
7976.00	89.320	162.700	6159.69	1451.85	-1748.78	-629.97	1652507.16	14358418.42	39°32'22.6755"N	80°57'25.6149"W	1858.79	199.811	0.30	-0.29	0.07	



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH DATA (233 stations)																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
8071.00	88.710	162.500	6161.32	1546.81	-1839.42	-601.56	1652535.55	14358327.81	39°32'21.7796"N	80°57'25.2529"W	1935.29	198.110	0.68	-0.64	-0.21	
8165.00	89.380	162.900	6162.89	1640.76	-1929.15	-573.61	1652563.49	14358238.11	39°32'20.8926"N	80°57'24.8968"W	2012.62	196.559	0.83	0.71	0.43	
8260.00	88.740	161.850	6164.44	1735.73	-2019.68	-544.85	1652592.23	14358147.62	39°32'19.9977"N	80°57'24.5302"W	2091.88	195.097	1.29	-0.67	-1.11	
8354.00	89.600	162.970	6165.81	1829.69	-2109.27	-516.45	1652620.63	14358058.07	39°32'19.1121"N	80°57'24.1682"W	2171.58	193.758	1.50	0.91	1.19	
8449.00	88.890	161.710	6167.06	1924.66	-2199.78	-487.63	1652649.43	14357967.59	39°32'18.2174"N	80°57'23.8010"W	2253.18	192.499	1.52	-0.75	-1.33	
8544.00	89.380	162.250	6168.49	2019.64	-2290.11	-458.25	1652678.80	14357877.30	39°32'17.3245"N	80°57'23.4265"W	2335.51	191.315	0.77	0.52	0.57	
8638.00	89.910	163.130	6169.07	2113.61	-2379.85	-430.28	1652706.76	14357787.59	39°32'16.4375"N	80°57'23.0701"W	2418.44	190.248	1.09	0.56	0.94	
8733.00	89.510	161.720	6169.56	2208.58	-2470.41	-401.60	1652735.43	14357697.07	39°32'15.5423"N	80°57'22.7045"W	2502.84	189.233	1.54	-0.42	-1.48	
8827.00	89.850	161.320	6170.08	2302.58	-2559.57	-371.80	1652765.22	14357607.95	39°32'14.6610"N	80°57'22.3248"W	2586.43	188.265	0.56	0.36	-0.43	
8922.00	89.570	161.100	6170.56	2397.57	-2649.50	-341.20	1652795.80	14357518.05	39°32'13.7720"N	80°57'21.9348"W	2671.38	187.338	0.37	-0.29	-0.23	
9017.00	89.570	161.440	6171.27	2492.57	-2739.47	-310.70	1652826.30	14357428.12	39°32'12.8827"N	80°57'21.5460"W	2757.03	186.471	0.36	0.00	0.36	
9111.00	88.980	160.100	6172.46	2586.56	-2828.21	-279.74	1652857.24	14357339.41	39°32'12.0055"N	80°57'21.1514"W	2842.01	185.649	1.56	-0.63	-1.43	
9206.00	89.260	161.810	6173.92	2681.54	-2918.00	-248.75	1652888.22	14357249.66	39°32'11.1179"N	80°57'20.7564"W	2928.58	184.872	1.82	0.29	1.80	
9301.00	89.230	161.050	6175.18	2776.53	-3008.04	-218.50	1652918.46	14357159.65	39°32'10.2278"N	80°57'20.3708"W	3015.97	184.155	0.80	-0.03	-0.80	
9395.00	89.450	160.970	6176.26	2870.53	-3096.92	-187.91	1652949.03	14357070.81	39°32'9.3493"N	80°57'19.9810"W	3102.62	183.472	0.25	0.23	-0.09	
9490.00	89.910	162.340	6176.79	2965.52	-3187.09	-158.01	1652978.92	14356980.68	39°32'8.4580"N	80°57'19.6000"W	3191.01	182.838	1.52	0.48	1.44	
9585.00	89.450	161.080	6177.32	3060.51	-3277.29	-128.20	1653008.72	14356890.52	39°32'7.5664"N	80°57'19.2201"W	3279.79	182.240	1.41	-0.48	-1.33	
9679.00	89.290	162.210	6178.35	3154.50	-3366.50	-98.60	1653038.31	14356801.34	39°32'6.6846"N	80°57'18.8428"W	3367.94	181.678	1.21	-0.17	1.20	
9774.00	89.570	161.840	6179.30	3249.49	-3456.86	-69.29	1653067.61	14356711.02	39°32'5.7914"N	80°57'18.4693"W	3457.55	181.148	0.49	0.29	-0.39	
9868.00	89.540	161.760	6180.03	3343.48	-3546.15	-39.93	1653096.96	14356621.76	39°32'4.9087"N	80°57'18.0951"W	3546.38	180.645	0.09	-0.03	-0.09	
9963.00	89.600	161.600	6180.74	3438.47	-3636.33	-10.07	1653126.81	14356531.62	39°32'4.0172"N	80°57'17.7146"W	3636.35	180.159	0.18	0.06	-0.17	
10058.00	88.180	159.480	6182.58	3533.44	-3725.88	21.57	1653158.43	14356442.10	39°32'3.1321"N	80°57'17.3113"W	3725.95	179.668	2.69	-1.49	-2.23	
10152.00	90.030	159.840	6184.05	3627.39	-3814.01	54.24	1653191.09	14356354.01	39°32'2.2609"N	80°57'16.8950"W	3814.39	179.185	2.00	1.97	0.38	
10247.00	90.650	162.190	6183.49	3722.38	-3903.83	85.14	1653221.98	14356264.23	39°32'1.3730"N	80°57'16.5011"W	3904.76	178.751	2.56	0.65	2.47	
10341.00	89.940	160.840	6183.00	3816.38	-3992.98	114.95	1653251.77	14356175.12	39°32'0.4918"N	80°57'16.1213"W	3994.63	178.351	1.62	-0.76	-1.44	
10436.00	90.370	161.780	6182.74	3911.37	-4082.97	145.39	1653282.20	14356085.16	39°31'59.6023"N	80°57'15.7334"W	4085.55	177.961	1.09	0.45	0.99	
10530.00	90.460	161.990	6182.06	4005.36	-4172.31	174.61	1653311.41	14355995.86	39°31'58.7192"N	80°57'15.3610"W	4175.96	177.604	0.24	0.10	0.22	
10625.00	89.260	161.140	6182.30	4100.36	-4262.43	204.66	1653341.44	14355905.78	39°31'57.8283"N	80°57'14.9782"W	4267.34	177.251	1.55	-1.26	-0.89	
10719.00	90.000	161.780	6182.90	4194.35	-4351.55	234.54	1653371.32	14355816.69	39°31'56.9474"N	80°57'14.5973"W	4357.86	176.915	1.04	0.79	0.68	
10814.00	89.660	161.560	6183.18	4289.35	-4441.73	264.42	1653401.18	14355726.55	39°31'56.0560"N	80°57'14.2166"W	4449.59	176.593	0.43	-0.36	-0.23	



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH DATA (233 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
10909.00	89.690	161.980	6183.72	4384.34	-4531.96	294.14	1653430.89	14355636.36	39°31'55.1640"N	80°57'13.8379"W	4541.49	176.287	0.44	0.03	0.44	
11003.00	89.320	160.650	6184.54	4478.34	-4621.00	324.25	1653460.99	14355547.35	39°31'54.2839"N	80°57'13.4541"W	4632.36	175.986	1.47	-0.39	-1.41	
11098.00	89.820	161.760	6185.25	4573.33	-4710.93	354.86	1653491.58	14355457.46	39°31'53.3949"N	80°57'13.0641"W	4724.27	175.692	1.28	0.53	1.17	
11192.00	89.630	161.770	6185.70	4667.33	-4800.20	384.27	1653520.99	14355368.21	39°31'52.5124"N	80°57'12.6893"W	4815.56	175.423	0.20	-0.20	0.01	
11287.00	89.630	161.450	6186.31	4762.32	-4890.35	414.24	1653550.94	14355278.10	39°31'51.6213"N	80°57'12.3074"W	4907.86	175.158	0.34	0.00	-0.34	
11382.00	89.540	161.190	6187.00	4857.32	-4980.34	444.67	1653581.36	14355188.15	39°31'50.7317"N	80°57'11.9197"W	5000.16	174.898	0.29	-0.09	-0.27	
11476.00	89.910	162.060	6187.45	4951.31	-5069.55	474.30	1653610.98	14355098.98	39°31'49.8499"N	80°57'11.5421"W	5091.69	174.655	1.01	0.39	0.93	
11571.00	89.820	161.970	6187.68	5046.30	-5159.91	503.63	1653640.30	14355008.66	39°31'48.9567"N	80°57'11.1684"W	5184.43	174.425	0.13	-0.09	-0.09	
11666.00	90.150	162.300	6187.70	5141.29	-5250.33	532.77	1653669.43	14354918.27	39°31'48.0629"N	80°57'10.7970"W	5277.29	174.206	0.49	0.35	0.35	
11760.00	90.150	162.620	6187.46	5235.26	-5339.95	561.10	1653697.75	14354828.68	39°31'47.1770"N	80°57'10.4361"W	5369.35	174.002	0.34	0.00	0.34	
11855.00	89.880	161.940	6187.43	5330.25	-5430.45	590.02	1653726.65	14354738.22	39°31'46.2824"N	80°57'10.0677"W	5462.41	173.799	0.77	-0.28	-0.72	
11949.00	89.320	160.880	6188.09	5424.24	-5519.54	619.98	1653756.60	14354649.17	39°31'45.4018"N	80°57'9.6859"W	5554.25	173.591	1.28	-0.60	-1.13	
12044.00	89.780	161.410	6188.83	5519.24	-5609.44	650.68	1653787.29	14354559.31	39°31'44.5131"N	80°57'9.2947"W	5647.05	173.383	0.74	0.48	0.56	
12139.00	89.850	161.590	6189.14	5614.24	-5699.53	680.83	1653817.42	14354469.25	39°31'43.6226"N	80°57'8.9106"W	5740.05	173.188	0.20	0.07	0.19	
12233.00	90.860	161.730	6188.56	5708.23	-5788.75	710.40	1653846.99	14354380.07	39°31'42.7406"N	80°57'8.5337"W	5832.18	173.004	1.08	1.07	0.15	
12328.00	90.250	162.370	6187.64	5803.21	-5879.12	739.68	1653876.25	14354289.73	39°31'41.8473"N	80°57'8.1607"W	5925.47	172.829	0.93	-0.64	0.67	
12423.00	89.780	161.590	6187.61	5898.20	-5969.46	769.07	1653905.63	14354199.43	39°31'40.9543"N	80°57'7.7863"W	6018.80	172.659	0.96	-0.49	-0.82	
12517.00	89.940	162.060	6187.84	5992.20	-6058.77	798.39	1653934.94	14354110.15	39°31'40.0714"N	80°57'7.4127"W	6111.15	172.493	0.53	0.17	0.50	
12612.00	89.690	161.060	6188.15	6087.19	-6148.89	828.44	1653964.97	14354020.07	39°31'39.1806"N	80°57'7.0298"W	6204.45	172.327	1.09	-0.26	-1.05	
12706.00	89.820	161.390	6188.55	6181.19	-6237.89	858.69	1653995.22	14353931.11	39°31'38.3009"N	80°57'6.6444"W	6296.71	172.162	0.38	0.14	0.35	
12801.00	89.880	161.610	6188.80	6276.19	-6327.98	888.83	1654025.35	14353841.05	39°31'37.4103"N	80°57'6.2603"W	6390.10	172.004	0.24	0.06	0.23	
12895.00	90.150	161.840	6188.77	6370.18	-6417.24	918.31	1654054.81	14353751.83	39°31'36.5280"N	80°57'5.8847"W	6482.61	171.856	0.38	0.29	0.24	
12990.00	89.570	160.750	6189.01	6465.18	-6507.22	948.78	1654085.26	14353661.89	39°31'35.6385"N	80°57'5.4966"W	6576.02	171.705	1.30	-0.61	-1.15	
13084.00	90.030	162.000	6189.33	6559.18	-6596.29	978.80	1654115.27	14353572.85	39°31'34.7580"N	80°57'5.1141"W	6668.52	171.560	1.42	0.49	1.33	
13178.00	89.260	161.670	6189.92	6653.17	-6685.60	1008.10	1654144.57	14353483.57	39°31'33.8751"N	80°57'4.7407"W	6761.18	171.425	0.89	-0.82	-0.35	
13273.00	89.850	162.060	6190.66	6748.16	-6775.88	1037.67	1654174.12	14353393.33	39°31'32.9827"N	80°57'4.3640"W	6854.88	171.293	0.74	0.62	0.41	
13367.00	89.940	162.960	6190.83	6842.13	-6865.54	1065.92	1654202.36	14353303.71	39°31'32.0965"N	80°57'4.0041"W	6947.79	171.175	0.96	0.10	0.96	
13462.00	89.690	162.450	6191.13	6937.10	-6956.24	1094.16	1654230.59	14353213.05	39°31'31.1999"N	80°57'3.6443"W	7041.77	171.061	0.60	-0.26	-0.54	
13556.00	89.630	162.050	6191.69	7031.08	-7045.76	1122.82	1654259.24	14353123.56	39°31'30.3150"N	80°57'3.2793"W	7134.67	170.945	0.43	-0.06	-0.43	
13650.00	89.480	161.330	6192.42	7125.07	-7135.00	1152.35	1654288.75	14353034.36	39°31'29.4328"N	80°57'2.9030"W	7227.46	170.826	0.78	-0.16	-0.77	



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH DATA (233 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
13745.00	89.170	161.200	6193.54	7220.06	-7224.96	1182.86	1654319.25	14352944.43	39°31'28.5436"N	80°57'2.5143"W	7321.15	170.702	0.35	-0.33	-0.14	
13839.00	89.260	161.380	6194.83	7314.06	-7313.98	1213.01	1654349.39	14352855.44	39°31'27.6636"N	80°57'2.1302"W	7413.89	170.583	0.21	0.10	0.19	
13934.00	89.660	161.800	6195.72	7409.05	-7404.12	1243.01	1654379.38	14352765.35	39°31'26.7726"N	80°57'1.7480"W	7507.73	170.470	0.61	0.42	0.44	
14028.00	89.570	161.870	6196.36	7503.04	-7493.43	1272.31	1654408.67	14352676.07	39°31'25.8897"N	80°57'1.3746"W	7600.68	170.364	0.12	-0.10	0.07	
14123.00	89.380	161.610	6197.23	7598.03	-7583.64	1302.08	1654438.43	14352585.89	39°31'24.9979"N	80°57'0.9954"W	7694.61	170.258	0.34	-0.20	-0.27	
14217.00	89.110	160.920	6198.47	7692.02	-7672.65	1332.27	1654468.60	14352496.92	39°31'24.1181"N	80°57'0.6108"W	7787.46	170.149	0.79	-0.29	-0.73	
14312.00	89.510	161.660	6199.61	7787.01	-7762.63	1362.74	1654499.06	14352406.98	39°31'23.2287"N	80°57'0.2226"W	7881.33	170.043	0.89	0.42	0.78	
14406.00	89.230	161.960	6200.64	7881.00	-7851.92	1392.08	1654528.39	14352317.72	39°31'22.3460"N	80°56'59.8488"W	7974.37	169.946	0.44	-0.30	0.32	
14501.00	89.720	161.950	6201.51	7975.99	-7942.25	1421.51	1654557.81	14352227.43	39°31'21.4531"N	80°56'59.4739"W	8068.46	169.853	0.52	0.52	-0.01	
14595.00	89.290	160.510	6202.33	8069.98	-8031.24	1451.75	1654588.04	14352138.47	39°31'20.5734"N	80°56'59.0886"W	8161.40	169.754	1.60	-0.46	-1.53	
14690.00	89.450	160.750	6203.37	8164.97	-8120.86	1483.26	1654619.53	14352048.89	39°31'19.6875"N	80°56'58.6872"W	8255.21	169.649	0.30	0.17	0.25	
14784.00	89.200	160.110	6204.48	8258.96	-8209.42	1514.74	1654651.00	14351960.37	39°31'18.8120"N	80°56'58.2861"W	8348.00	169.546	0.73	-0.27	-0.68	
14879.00	89.110	160.250	6205.88	8353.93	-8298.79	1546.95	1654683.20	14351871.04	39°31'17.9286"N	80°56'57.8757"W	8441.74	169.441	0.18	-0.09	0.15	
14974.00	88.920	159.770	6207.51	8448.90	-8388.05	1579.42	1654715.66	14351781.81	39°31'17.0462"N	80°56'57.4620"W	8535.45	169.336	0.54	-0.20	-0.51	
15069.00	89.230	160.640	6209.05	8543.87	-8477.42	1611.59	1654747.81	14351692.47	39°31'16.1627"N	80°56'57.0522"W	8629.25	169.236	0.97	0.33	0.92	
15163.00	89.480	160.480	6210.10	8637.86	-8566.06	1642.87	1654779.08	14351603.87	39°31'15.2866"N	80°56'56.6536"W	8722.18	169.143	0.32	0.27	-0.17	
15257.00	89.420	160.220	6211.01	8731.85	-8654.58	1674.48	1654810.68	14351515.39	39°31'14.4115"N	80°56'56.2509"W	8815.08	169.050	0.28	-0.06	-0.28	
15352.00	89.420	160.340	6211.97	8826.83	-8744.00	1706.53	1654842.72	14351426.00	39°31'13.5275"N	80°56'55.8426"W	8908.98	168.957	0.13	0.00	0.13	
15446.00	89.720	161.140	6212.67	8920.82	-8832.74	1737.54	1654873.71	14351337.30	39°31'12.6503"N	80°56'55.4476"W	9002.02	168.871	0.91	0.32	0.85	
15540.00	89.750	161.000	6213.11	9014.82	-8921.65	1768.03	1654904.19	14351248.42	39°31'11.7714"N	80°56'55.0591"W	9095.16	168.791	0.15	0.03	-0.15	
15635.00	89.350	160.350	6213.85	9109.82	-9011.30	1799.47	1654935.62	14351158.81	39°31'10.8852"N	80°56'54.6586"W	9189.21	168.707	0.80	-0.42	-0.68	
15729.00	89.260	160.300	6214.99	9203.80	-9099.80	1831.12	1654967.25	14351070.34	39°31'10.0103"N	80°56'54.2554"W	9282.21	168.623	0.11	-0.10	-0.05	
15824.00	89.630	160.570	6215.91	9298.79	-9189.31	1862.93	1654999.05	14350980.87	39°31'9.1255"N	80°56'53.8502"W	9376.25	168.540	0.48	0.39	0.28	
15918.00	89.420	160.520	6216.69	9392.78	-9277.94	1894.24	1655030.34	14350892.27	39°31'8.2493"N	80°56'53.4513"W	9469.34	168.461	0.23	-0.22	-0.05	
16013.00	89.630	160.490	6217.48	9487.77	-9367.49	1925.94	1655062.03	14350802.76	39°31'7.3641"N	80°56'53.0475"W	9563.43	168.382	0.22	0.22	-0.03	
16108.00	89.660	161.080	6218.07	9582.76	-9457.20	1957.20	1655093.29	14350713.09	39°31'6.4773"N	80°56'52.6492"W	9657.60	168.307	0.62	0.03	0.62	
16203.00	89.290	160.330	6218.94	9677.76	-9546.86	1988.59	1655124.66	14350623.47	39°31'5.5910"N	80°56'52.2493"W	9751.77	168.234	0.88	-0.39	-0.79	
16297.00	88.980	159.550	6220.36	9771.72	-9635.15	2020.83	1655156.89	14350535.22	39°31'4.7183"N	80°56'51.8386"W	9844.78	168.155	0.89	-0.33	-0.83	
16392.00	89.320	160.670	6221.77	9866.69	-9724.47	2053.15	1655189.19	14350445.93	39°31'3.8353"N	80°56'51.4269"W	9938.85	168.078	1.23	0.36	1.18	
16487.00	89.690	160.970	6222.59	9961.69	-9814.19	2084.36	1655220.39	14350356.24	39°31'2.9483"N	80°56'51.0293"W	10033.09	168.010	0.50	0.39	0.32	



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH DATA (233 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
16581.00	89.570	160.610	6223.20	10055.68	-9902.95	2115.29	1655251.31	14350267.52	39°31'2.0709"N	80°56'50.6353"W	10126.35	167.943	0.40	-0.13	-0.38	
16676.00	89.260	160.660	6224.17	10150.68	-9992.57	2146.78	1655282.79	14350177.93	39°31'1.1849"N	80°56'50.2341"W	10220.58	167.875	0.33	-0.33	0.05	
16771.00	89.350	160.650	6225.32	10245.66	-10082.20	2178.25	1655314.25	14350088.34	39°31'0.2989"N	80°56'49.8333"W	10314.83	167.809	0.10	0.09	-0.01	
16865.00	89.880	160.760	6225.95	10339.66	-10170.92	2209.31	1655345.29	14349999.65	39°30'59.4219"N	80°56'49.4376"W	10408.11	167.745	0.58	0.56	0.12	
16960.00	89.200	160.460	6226.71	10434.65	-10260.53	2240.85	1655376.82	14349910.08	39°30'58.5361"N	80°56'49.0359"W	10502.38	167.680	0.78	-0.72	-0.32	
17055.00	89.600	160.590	6227.71	10529.64	-10350.09	2272.52	1655408.48	14349820.56	39°30'57.6508"N	80°56'48.6324"W	10596.64	167.616	0.44	0.42	0.14	
17149.00	89.320	161.740	6228.59	10623.63	-10439.05	2302.87	1655438.81	14349731.63	39°30'56.7714"N	80°56'48.2459"W	10690.04	167.560	1.26	-0.30	1.22	
17244.00	89.480	161.690	6229.59	10718.62	-10529.25	2332.67	1655468.60	14349641.47	39°30'55.8797"N	80°56'47.8663"W	10784.55	167.508	0.18	0.17	-0.05	
17338.00	89.820	162.700	6230.16	10812.61	-10618.74	2361.41	1655497.33	14349552.01	39°30'54.9951"N	80°56'47.5002"W	10878.14	167.462	1.13	0.36	1.07	
17433.00	89.450	161.900	6230.77	10907.58	-10709.24	2390.29	1655526.20	14349461.55	39°30'54.1004"N	80°56'47.1324"W	10972.76	167.418	0.93	-0.39	-0.84	
17528.00	89.540	162.120	6231.60	11002.57	-10799.60	2419.63	1655555.53	14349371.23	39°30'53.2073"N	80°56'46.7587"W	11067.33	167.372	0.25	0.09	0.23	
17622.00	89.820	161.540	6232.13	11096.56	-10888.91	2448.95	1655584.83	14349281.96	39°30'52.3244"N	80°56'46.3854"W	11160.90	167.325	0.69	0.30	-0.62	
17717.00	89.540	161.980	6232.66	11191.56	-10979.13	2478.68	1655614.55	14349191.77	39°30'51.4325"N	80°56'46.0067"W	11255.45	167.278	0.55	-0.29	0.46	
17812.00	89.510	161.400	6233.45	11286.55	-11069.32	2508.52	1655644.39	14349101.62	39°30'50.5410"N	80°56'45.6266"W	11350.00	167.231	0.61	-0.03	-0.61	
17906.00	89.200	161.390	6234.51	11380.54	-11158.40	2538.51	1655674.36	14349012.57	39°30'49.6604"N	80°56'45.2446"W	11443.51	167.183	0.33	-0.33	-0.01	
18001.00	89.880	161.590	6235.27	11475.54	-11248.48	2568.67	1655704.51	14348922.53	39°30'48.7699"N	80°56'44.8605"W	11538.04	167.137	0.75	0.72	0.21	
18096.00	89.850	161.900	6235.49	11570.53	-11338.70	2598.43	1655734.26	14348832.35	39°30'47.8781"N	80°56'44.4815"W	11632.63	167.093	0.33	-0.03	0.33	
18190.00	90.370	162.000	6235.31	11664.52	-11428.07	2627.55	1655763.37	14348743.01	39°30'46.9946"N	80°56'44.1106"W	11726.25	167.052	0.56	0.55	0.11	
18285.00	90.120	162.120	6234.91	11759.51	-11518.45	2656.82	1655792.62	14348652.66	39°30'46.1012"N	80°56'43.7380"W	11820.89	167.011	0.29	-0.26	0.13	
18380.00	89.630	161.410	6235.11	11854.50	-11608.68	2686.54	1655822.33	14348562.47	39°30'45.2092"N	80°56'43.3594"W	11915.50	166.970	0.91	-0.52	-0.75	
18474.00	89.050	161.830	6236.20	11948.49	-11697.88	2716.18	1655851.96	14348473.31	39°30'44.3275"N	80°56'42.9819"W	12009.08	166.928	0.76	-0.62	0.45	
18569.00	89.200	161.740	6237.65	12043.48	-11788.11	2745.87	1655881.64	14348383.12	39°30'43.4355"N	80°56'42.6038"W	12103.69	166.888	0.18	0.16	-0.09	
18663.00	89.080	162.150	6239.06	12137.46	-11877.47	2775.00	1655910.76	14348293.79	39°30'42.5522"N	80°56'42.2328"W	12197.33	166.850	0.45	-0.13	0.44	
18758.00	88.980	161.960	6240.67	12232.43	-11967.84	2804.27	1655940.01	14348203.46	39°30'41.6589"N	80°56'41.8601"W	12291.99	166.813	0.23	-0.11	-0.20	
18853.00	89.380	162.110	6242.03	12327.41	-12058.20	2833.57	1655969.30	14348113.14	39°30'40.7657"N	80°56'41.4870"W	12386.65	166.776	0.45	0.42	0.16	
18947.00	89.110	162.190	6243.26	12421.39	-12147.66	2862.38	1655998.10	14348023.71	39°30'39.8813"N	80°56'41.1201"W	12480.34	166.741	0.30	-0.29	0.09	
19041.00	89.110	161.480	6244.72	12515.37	-12236.97	2891.68	1656027.39	14347934.44	39°30'38.9985"N	80°56'40.7470"W	12573.99	166.705	0.76	0.00	-0.76	
19136.00	89.600	162.180	6245.79	12610.36	-12327.22	2921.30	1656057.00	14347844.22	39°30'38.1062"N	80°56'40.3697"W	12668.64	166.668	0.90	0.52	0.74	
19231.00	89.050	162.130	6246.91	12705.34	-12417.65	2950.41	1656086.10	14347753.83	39°30'37.2124"N	80°56'39.9990"W	12763.34	166.634	0.58	-0.58	-0.05	
19325.00	89.200	161.510	6248.35	12799.32	-12506.94	2979.74	1656115.41	14347664.57	39°30'36.3297"N	80°56'39.6256"W	12857.00	166.599	0.68	0.16	-0.66	



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH DATA (233 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
19420.00	89.660	161.900	6249.29	12894.31	-12597.14	3009.56	1656145.22	14347574.42	39°30'35.4381"N	80°56'39.2458"W	12951.65	166.563	0.63	0.48	0.41	
19514.00	88.890	160.840	6250.48	12988.30	-12686.20	3039.58	1656175.23	14347485.39	39°30'34.5576"N	80°56'38.8635"W	13045.26	166.526	1.39	-0.82	-1.13	
19609.00	89.660	160.710	6251.69	13083.29	-12775.89	3070.86	1656206.50	14347395.73	39°30'33.6709"N	80°56'38.4651"W	13139.77	166.485	0.82	0.81	-0.14	
19703.00	90.280	160.760	6251.73	13177.29	-12864.63	3101.87	1656237.50	14347307.03	39°30'32.7938"N	80°56'38.0701"W	13233.30	166.444	0.66	0.66	0.05	
19798.00	90.180	160.570	6251.35	13272.28	-12954.27	3133.33	1656268.94	14347217.42	39°30'31.9076"N	80°56'37.6695"W	13327.82	166.403	0.23	-0.11	-0.20	
19892.00	90.180	160.470	6251.06	13366.27	-13042.89	3164.67	1656300.27	14347128.84	39°30'31.0316"N	80°56'37.2703"W	13421.33	166.362	0.11	0.00	-0.11	
19987.00	90.000	159.990	6250.91	13461.26	-13132.29	3196.81	1656332.39	14347039.48	39°30'30.1478"N	80°56'36.8611"W	13515.79	166.319	0.54	-0.19	-0.51	
20082.00	90.280	160.090	6250.68	13556.24	-13221.58	3229.24	1656364.81	14346950.22	39°30'29.2651"N	80°56'36.4480"W	13610.23	166.275	0.31	0.29	0.11	
20176.00	90.310	160.310	6250.19	13650.23	-13310.03	3261.08	1656396.64	14346861.81	39°30'28.3908"N	80°56'36.0425"W	13703.70	166.233	0.24	0.03	0.23	
20271.00	90.710	161.460	6249.35	13745.22	-13399.78	3292.19	1656427.73	14346772.09	39°30'27.5035"N	80°56'35.6464"W	13798.28	166.196	1.28	0.42	1.21	
20366.00	90.000	160.400	6248.76	13840.22	-13489.57	3323.22	1656458.76	14346682.35	39°30'26.6159"N	80°56'35.2511"W	13892.88	166.160	1.34	-0.75	-1.12	
20460.00	90.310	160.910	6248.50	13934.21	-13578.26	3354.36	1656489.88	14346593.69	39°30'25.7392"N	80°56'34.8546"W	13986.45	166.124	0.63	0.33	0.54	
20555.00	89.780	160.810	6248.43	14029.21	-13668.01	3385.51	1656521.02	14346503.98	39°30'24.8520"N	80°56'34.4579"W	14081.05	166.088	0.57	-0.56	-0.11	
20649.00	89.850	161.020	6248.73	14123.21	-13756.84	3416.24	1656551.74	14346415.18	39°30'23.9738"N	80°56'34.0665"W	14174.67	166.054	0.24	0.07	0.22	
20744.00	90.490	161.080	6248.45	14218.21	-13846.69	3447.09	1656582.58	14346325.37	39°30'23.0856"N	80°56'33.6736"W	14269.31	166.021	0.68	0.67	0.06	
20838.00	89.110	161.120	6248.78	14312.20	-13935.62	3477.54	1656613.01	14346236.47	39°30'22.2065"N	80°56'33.2859"W	14362.96	165.988	1.47	-1.47	0.04	
20933.00	89.230	161.020	6250.15	14407.19	-14025.47	3508.36	1656643.82	14346146.66	39°30'21.3182"N	80°56'32.8935"W	14457.61	165.956	0.16	0.13	-0.11	
21027.00	89.140	160.710	6251.49	14501.18	-14114.27	3539.17	1656674.61	14346057.89	39°30'20.4404"N	80°56'32.5012"W	14551.23	165.923	0.34	-0.10	-0.33	
21122.00	89.510	161.450	6252.61	14596.18	-14204.13	3569.97	1656705.40	14345968.07	39°30'19.5521"N	80°56'32.1089"W	14645.88	165.892	0.87	0.39	0.78	
21217.00	89.720	160.970	6253.25	14691.17	-14294.06	3600.57	1656735.99	14345878.17	39°30'18.6631"N	80°56'31.7193"W	14740.57	165.862	0.55	0.22	-0.51	
21311.00	89.170	160.850	6254.16	14785.17	-14382.89	3631.31	1656766.72	14345789.38	39°30'17.7850"N	80°56'31.3279"W	14834.21	165.830	0.60	-0.59	-0.13	
21358.00	89.420	161.660	6254.74	14832.16	-14427.39	3646.41	1656781.82	14345744.90	39°30'17.3450"N	80°56'31.1355"W	14881.06	165.816	1.80	0.53	1.72	
21383.00	89.420	161.660	6254.99	14857.16	-14451.12	3654.28	1656789.68	14345721.18	39°30'17.1105"N	80°56'31.0354"W	14905.99	165.809	0.00	0.00	0.00	Projected MD at TD: 21383'



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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 Environmental Protection



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

HOLE & CASING SECTIONS - Ref Wellbore: Jed Unit 1H AWB Ref Wellpath: Jed Unit 1H AWP Proj: 21383'									
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	-0.10	-0.20
17.5in Open Hole	130.00	388.00	258.00	130.00	388.00	-0.10	-0.20	-0.10	-1.46
13.375in Casing Surface	30.00	368.00	338.00	30.00	368.00	0.00	0.00	-0.13	-1.36
12.25in Open Hole	388.00	2608.00	2220.00	388.00	2555.58	-0.10	-1.46	37.46	-385.50
9.625in Casing Intermediate	30.00	2578.00	2548.00	30.00	2526.87	0.00	0.00	37.46	-376.81
8.75in Open Hole	2608.00	5474.00	2866.00	2555.58	5316.22	37.46	-385.50	148.78	-1139.72
8.5in Open Hole	5474.00	21383.00	15909.00	5316.22	6254.99	148.78	-1139.72	-14451.12	3654.28
5.5in Casing Production	30.00	21363.00	21333.00	30.00	6254.79	0.00	0.00	-14432.14	3647.98

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Jed Unit 1H POE Rev-2	6090.00	-322.96	-1144.92	1651992.41	14359843.66	39°32'36.7697"N	80°57'32.1795"W	point
Jed Unit 1H BHL Rev-2	6135.00	-14485.44	3684.70	1656820.09	14345686.87	39°30'16.7711"N	80°56'30.6475"W	point
Jed Unit 1H LP Rev-2	6135.00	-559.45	-1064.27	1652073.03	14359607.26	39°32'34.4320"N	80°57'31.1514"W	point
Jed Unit 1H 50' L/R Hard Line	6500.00	-7421.72	1275.87	1654412.23	14352747.75	39°31'26.5984"N	80°57'1.3288"W	rectangle
2D Rectangle 15000.4 x 100.								



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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Operator	ANTERO RESOURCES CORPORATION	Well	Jed Unit 1H
Field	Tyler	API	47-095-02778-0000
Facility	Nalley Pad	Wellbore	Jed Unit 1H AWB
Slot	Slot #04		

WELLPATH COMPOSITION - Ref Wellbore: Jed Unit 1H AWB Ref Wellpath: Jed Unit 1H AWP Proj: 21383'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	300.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-300')	Jed Unit 1H AWB	4/25/2022
300.00	2531.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (300')(419'-2531')	Jed Unit 1H AWB	4/25/2022
2531.00	5367.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (2531')(2655'-5367')	Jed Unit 1H AWB	5/16/2022
5367.00	21383.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (5367')(5458'-21358')	Jed Unit 1H AWB	5/16/2022



Actual Wellpath Report

Jed Unit 1H AWP Proj: 21383'

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Slot	Slot #04		

COMMENTS

Wellpath general comments

API: 47-095-02778-0000
BH Job #: 111286244
Rig: H&P 519
Duration: 5/18/2022-5/22/2022
Gyrodata MS Gyro <17-1/2"> (100'-300')
APS EM <12-1/4"> (300')(419'-2531')
APS EM <8-3/4"> (2531')(2655'-5367')
BH AT Curve <8-1/2"> (5367')(5458'-21358')
Sycamore: 6106' MD
Middlesex: 6247' MD
Burkett: 6406' MD
Marcellus POE: 6494' MD
Projected MD at TD: 21383'

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