



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
 Field: Tyler
 Facility: Dry Run Pad

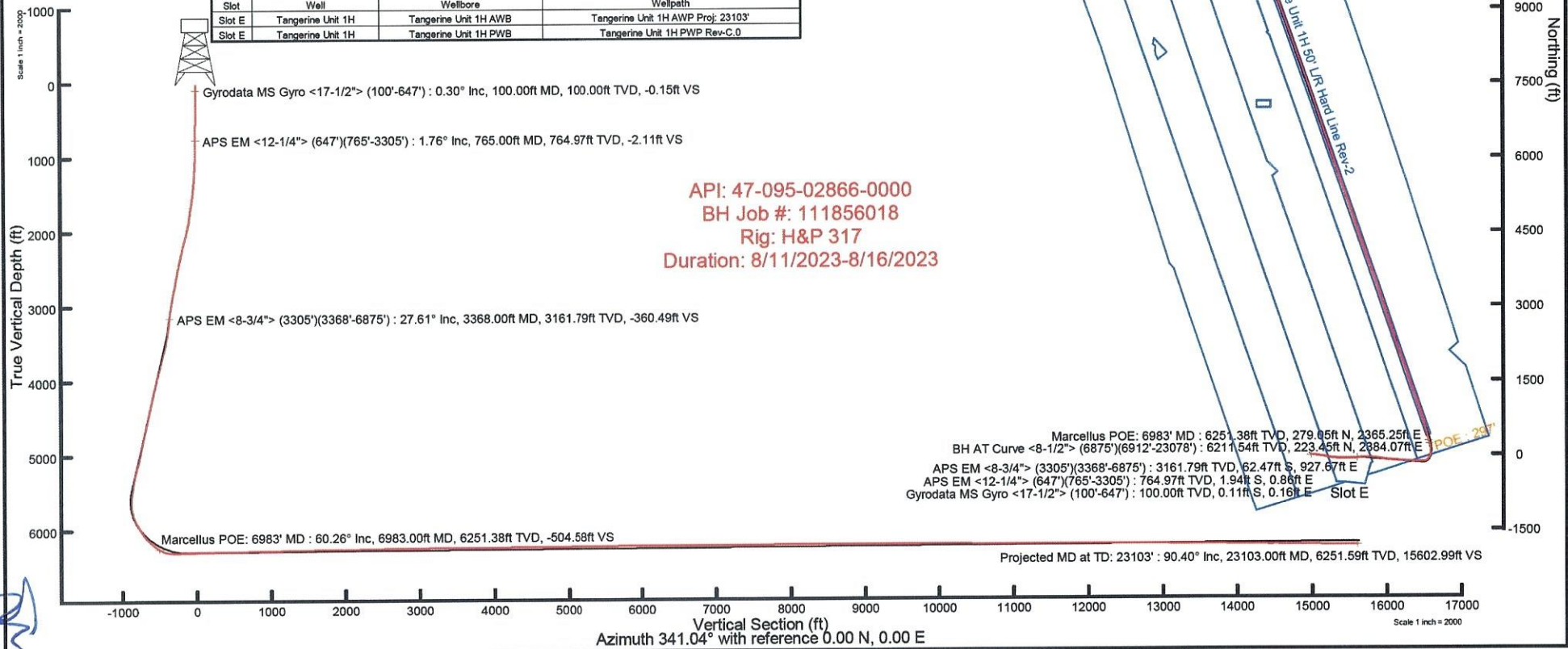
Slot: Slot E
 Well: Tangerine Unit 1H
 Wellbore: Tangerine Unit 1H PWB

Plot reference wellpath is Tangerine Unit 1H PWP Rev-C.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1032.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot E): -1007 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-09-05; Database: WA_MPL_EASTERNUS_Deth

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Dry Run Pad	1665236.690	14382894.350	39°33'6.8388"N	80°54'43.0140"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot E	-42.80	42.26	1665278.930	14382851.770	39°33'6.4172"N
Slot E	-42.80	42.26	1665278.930	14382851.770	39°33'6.4172"N
Comment	Tangerine Unit 1H				25.5ft
H&P 317 (RKB) to Ground level (At Slot: Slot E)					-1007ft
Mean Sea Level to Ground level (At Slot: Slot E)					1032.5ft
H&P 317 (RKB) to Mean Sea Level					1032.5ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3305.00	28.460	85.910	3106.18	-65.19	898.19	1.37	-353.48
Proj. to Bottom	3379.00	28.460	85.910	3171.24	-62.68	933.37	0.00	-362.63
Drill Out	3459.00	28.460	85.910	3241.57	-59.96	971.39	0.00	-372.32
End of 3D Arc	3681.52	29.769	94.661	3436.06	-60.66	1079.39	2.00	-408.08
Curve KOP	6031.44	29.769	94.661	5475.88	-155.47	2242.27	0.00	-875.57
POE	7078.01	70.043	341.041	6252.00	389.14	2363.87	8.00	-400.02
Landing Pt.	7331.22	90.300	341.041	6295.00	623.87	2283.23	8.00	-151.81
BHL	23101.00	90.300	341.041	6212.43	15537.98	-2840.11	0.00	15817.75

Well Data			
Slot	Well	Wellbore	Wellpath
Slot E	Tangerine Unit 1H	Tangerine Unit 1H AWB	Tangerine Unit 1H AWP Proj: 23103'
Slot E	Tangerine Unit 1H	Tangerine Unit 1H PWB	Tangerine Unit 1H PWP Rev-C.0



API: 47-095-02866-0000
 BH Job #: 111856018
 Rig: H&P 317
 Duration: 8/11/2023-8/16/2023

Marcellus POE: 6983' MD : 6251.38ft TVD, 279.05ft N, 2365.25ft E
 BH AT Curve <8-1/2"> (6875')(6912'-23078') : 6211.54ft TVD, 223.45ft N, 2884.07ft E
 APS EM <8-3/4"> (3305')(3368'-6875') : 3161.79ft TVD, 62.47ft S, 927.67ft E
 APS EM <12-1/4"> (647')(765'-3305') : 764.97ft TVD, 1.94ft S, 0.86ft E
 Gyrodata MS Gyro <17-1/2"> (100'-647') : 100.00ft TVD, 0.11ft S, 0.16ft E Slot E

Projected MD at TD: 23103' : 90.40° Inc, 23103.00ft MD, 6251.59ft TVD, 15602.99ft VS

Vertical Section (ft)
 Azimuth 341.04° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999601	Report Generated	9/5/2023 at 3:11:07 PM
Convergence at slot	0.06° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-42.60	42.26	1665278.93	14362851.77	39°33'6.4172"N	80°54'42.4751"W
Facility Reference Pt			1665236.69	14362894.35	39°33'6.8386"N	80°54'43.0140"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1032.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1032.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot E)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.04°



Actual Wellpath Report

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Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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	122.910	0.00	0.00	0.00	0.00	1665278.93	14362851.77	39°33'6.4172"N	80°54'42.4751"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	122.910	25.50	0.00	0.00	0.00	1665278.93	14362851.77	39°33'6.4172"N	80°54'42.4751"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.300	122.910	100.00	-0.15	-0.11	0.16	1665279.09	14362851.66	39°33'6.4162"N	80°54'42.4730"W	0.20	122.910	0.40	0.40	0.00	Gyrodatta MS Gyro <17-1/2"> (100'-647')
200.00	0.330	146.950	200.00	-0.64	-0.49	0.54	1665279.47	14362851.28	39°33'6.4124"N	80°54'42.4682"W	0.73	132.166	0.13	0.03	24.04	
300.00	0.340	212.040	300.00	-1.10	-0.98	0.54	1665279.47	14362850.79	39°33'6.4075"N	80°54'42.4682"W	1.12	151.195	0.36	0.01	65.09	
400.00	0.380	230.410	399.99	-1.41	-1.45	0.13	1665279.06	14362850.33	39°33'6.4030"N	80°54'42.4735"W	1.45	174.967	0.12	0.04	18.37	
500.00	0.450	226.650	499.99	-1.69	-1.93	-0.41	1665278.52	14362849.84	39°33'6.3982"N	80°54'42.4804"W	1.97	192.125	0.08	0.07	-3.76	
600.00	0.080	255.760	599.99	-1.84	-2.21	-0.77	1665278.16	14362849.56	39°33'6.3954"N	80°54'42.4849"W	2.34	199.117	0.38	-0.37	29.11	
647.00	0.090	249.470	646.99	-1.84	-2.23	-0.83	1665278.10	14362849.54	39°33'6.3952"N	80°54'42.4858"W	2.38	200.459	0.03	0.02	-13.38	
765.00	1.760	79.500	764.97	-2.11	-1.94	0.86	1665279.79	14362849.83	39°33'6.3981"N	80°54'42.4641"W	2.12	156.010	1.57	1.42	-144.04	APS EM <12-1/4"> (647')(765'-3305')
855.00	4.410	80.610	854.83	-2.89	-1.12	5.64	1665284.56	14362850.65	39°33'6.4061"N	80°54'42.4032"W	5.75	101.238	2.95	2.94	1.23	
944.00	6.200	84.350	943.45	-4.57	-0.09	13.79	1665292.72	14362851.68	39°33'6.4162"N	80°54'42.2990"W	13.79	90.366	2.05	2.01	4.20	
1033.00	8.290	87.130	1031.74	-7.45	0.71	24.99	1665303.91	14362852.48	39°33'6.4240"N	80°54'42.1561"W	25.00	88.381	2.38	2.35	3.12	
1127.00	9.810	92.320	1124.56	-12.24	0.72	39.76	1665318.67	14362852.49	39°33'6.4240"N	80°54'41.9675"W	39.76	88.960	1.83	1.62	5.52	
1222.00	10.910	91.380	1218.01	-18.30	0.18	56.83	1665335.74	14362851.95	39°33'6.4184"N	80°54'41.7496"W	56.83	89.821	1.17	1.16	-0.99	
1317.00	12.100	94.200	1311.10	-25.34	-0.77	75.75	1665354.65	14362851.00	39°33'6.4089"N	80°54'41.5081"W	75.75	90.581	1.39	1.25	2.97	
1411.00	13.240	94.180	1402.81	-33.44	-2.27	96.31	1665375.20	14362849.50	39°33'6.3938"N	80°54'41.2456"W	96.34	91.353	1.21	1.21	-0.02	
1506.00	14.600	96.700	1495.02	-42.90	-4.46	119.06	1665397.94	14362847.31	39°33'6.3720"N	80°54'40.9553"W	119.14	92.148	1.57	1.43	2.65	
1601.00	16.400	99.970	1586.57	-54.58	-8.18	144.16	1665423.03	14362843.59	39°33'6.3350"N	80°54'40.6349"W	144.39	93.249	2.11	1.89	3.44	
1695.00	18.300	101.370	1676.28	-68.45	-13.39	171.70	1665450.56	14362838.38	39°33'6.2832"N	80°54'40.2833"W	172.22	94.460	2.07	2.02	1.49	
1790.00	18.200	93.360	1766.52	-81.62	-17.20	201.14	1665479.98	14362834.58	39°33'6.2453"N	80°54'39.9076"W	201.87	94.888	2.64	-0.11	-8.43	
1885.00	18.970	98.450	1856.57	-94.36	-20.34	231.22	1665510.06	14362831.44	39°33'6.2140"N	80°54'39.5235"W	232.11	95.027	1.89	0.81	5.36	
1980.00	22.520	103.670	1945.41	-111.29	-26.91	264.19	1665543.01	14362824.87	39°33'6.1487"N	80°54'39.1028"W	265.55	95.816	4.21	3.74	5.49	
2074.00	25.060	104.390	2031.41	-131.94	-36.11	300.97	1665579.78	14362815.67	39°33'6.0574"N	80°54'38.6334"W	303.13	96.843	2.72	2.70	0.77	
2169.00	27.010	101.990	2116.77	-154.10	-45.60	341.56	1665620.35	14362806.19	39°33'5.9633"N	80°54'38.1152"W	344.59	97.604	2.33	2.05	-2.53	
2264.00	28.380	96.750	2200.90	-174.99	-52.73	385.09	1665663.87	14362799.06	39°33'5.8923"N	80°54'37.5596"W	388.69	97.798	2.94	1.44	-5.52	
2358.00	29.030	95.590	2283.34	-194.16	-57.58	429.98	1665708.73	14362794.21	39°33'5.8439"N	80°54'36.9867"W	433.82	97.628	0.91	0.69	-1.23	
2453.00	29.330	94.220	2366.29	-212.90	-61.54	476.12	1665754.86	14362790.26	39°33'5.8044"N	80°54'36.3976"W	480.08	97.365	0.77	0.32	-1.44	
2548.00	29.400	93.930	2449.08	-231.12	-64.85	522.59	1665801.31	14362786.95	39°33'5.7712"N	80°54'35.8044"W	526.60	97.074	0.17	0.07	-0.31	
2643.00	29.040	91.990	2532.00	-248.44	-67.25	568.90	1665847.60	14362784.55	39°33'5.7470"N	80°54'35.2133"W	572.86	96.742	1.07	-0.38	-2.04	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
2737.00	30.420	90.240	2613.62	-264.42	-68.14	615.50	1665894.18	14362783.66	39°33'5.7378"N	80°54'34.6184"W	619.26	96.317	1.73	1.47	-1.86	
2832.00	30.260	88.070	2695.61	-279.34	-67.43	663.47	1665942.14	14362784.36	39°33'5.7442"N	80°54'34.0059"W	666.89	95.804	1.17	-0.17	-2.28	
2927.00	30.470	91.570	2777.59	-294.80	-67.29	711.48	1665990.12	14362784.51	39°33'5.7452"N	80°54'33.3931"W	714.65	95.403	1.88	0.22	3.68	
3021.00	30.310	90.960	2858.67	-311.24	-68.34	759.02	1666037.64	14362783.46	39°33'5.7344"N	80°54'32.7862"W	762.09	95.145	0.37	-0.17	-0.65	
3116.00	29.610	89.330	2940.98	-326.78	-68.47	806.46	1666085.06	14362783.33	39°33'5.7326"N	80°54'32.1806"W	809.36	94.853	1.13	-0.74	-1.72	
3211.00	29.090	88.250	3023.79	-340.97	-67.49	853.01	1666131.60	14362784.31	39°33'5.7418"N	80°54'31.5863"W	855.67	94.524	0.78	-0.55	-1.14	
3305.00	28.460	85.910	3106.18	-353.48	-65.19	898.19	1666176.76	14362786.61	39°33'5.7641"N	80°54'31.0094"W	900.55	94.151	1.37	-0.67	-2.49	
3368.00	27.610	83.520	3161.79	-360.49	-62.47	927.67	1666206.23	14362789.32	39°33'5.7906"N	80°54'30.6331"W	929.77	93.853	2.24	-1.35	-3.79	APS EM <8-3/4"> (3305')(3368'-6875')
3462.00	28.210	82.530	3244.86	-369.62	-57.13	971.34	1666249.88	14362794.67	39°33'5.8431"N	80°54'30.0755"W	973.02	93.366	0.81	0.64	-1.05	
3557.00	30.110	83.160	3327.81	-379.10	-51.37	1017.27	1666295.79	14362800.42	39°33'5.8995"N	80°54'29.4891"W	1018.57	92.891	2.03	2.00	0.66	
3652.00	31.560	87.210	3409.39	-391.03	-47.32	1065.77	1666344.27	14362804.47	39°33'5.9390"N	80°54'28.8699"W	1066.82	92.542	2.66	1.53	4.26	
3746.00	32.040	90.140	3489.29	-406.04	-46.18	1115.28	1666393.76	14362805.61	39°33'5.9498"N	80°54'28.2378"W	1116.23	92.371	1.72	0.51	3.12	
3844.00	32.490	94.420	3572.16	-424.99	-48.28	1167.52	1666445.98	14362803.51	39°33'5.9285"N	80°54'27.5709"W	1168.52	92.368	2.38	0.46	4.37	
3938.00	32.720	95.600	3651.35	-445.57	-52.70	1217.98	1666496.42	14362799.09	39°33'5.8843"N	80°54'26.9268"W	1219.12	92.478	0.72	0.24	1.26	
4033.00	31.270	95.250	3731.92	-466.36	-57.46	1268.08	1666546.51	14362794.33	39°33'5.8367"N	80°54'26.2872"W	1269.39	92.595	1.54	-1.53	-0.37	
4128.00	30.040	97.040	3813.64	-486.89	-62.63	1316.24	1666594.64	14362789.16	39°33'5.7851"N	80°54'25.6725"W	1317.73	92.724	1.61	-1.29	1.88	
4222.00	29.600	99.710	3895.20	-508.34	-69.43	1362.47	1666640.86	14362782.37	39°33'5.7175"N	80°54'25.0824"W	1364.24	92.917	1.49	-0.47	2.84	
4317.00	29.160	100.440	3977.98	-530.96	-77.58	1408.36	1666686.73	14362774.22	39°33'5.6364"N	80°54'24.4967"W	1410.50	93.153	0.60	-0.46	0.77	
4412.00	28.400	96.360	4061.25	-551.99	-84.28	1453.58	1666731.93	14362767.52	39°33'5.5698"N	80°54'23.9195"W	1456.02	93.318	2.22	-0.80	-4.29	
4506.00	27.080	96.800	4144.45	-570.85	-89.29	1497.05	1666775.38	14362762.52	39°33'5.5198"N	80°54'23.3647"W	1499.71	93.413	1.42	-1.40	0.47	
4601.00	27.620	97.770	4228.83	-590.15	-94.83	1540.34	1666818.65	14362756.98	39°33'5.4646"N	80°54'22.8121"W	1543.25	93.523	0.74	0.57	1.02	
4695.00	28.040	96.270	4311.96	-609.37	-100.19	1583.89	1666862.18	14362751.62	39°33'5.4112"N	80°54'22.2562"W	1587.05	93.619	0.87	0.45	-1.60	
4790.00	27.730	94.540	4395.93	-627.70	-104.38	1628.12	1666906.40	14362747.44	39°33'5.3694"N	80°54'21.6916"W	1631.46	93.668	0.91	-0.33	-1.82	
4885.00	28.530	94.190	4479.71	-645.43	-107.78	1672.78	1666951.04	14362744.03	39°33'5.3352"N	80°54'21.1215"W	1676.25	93.687	0.86	0.84	-0.37	
4980.00	29.610	93.730	4562.74	-663.41	-110.97	1718.83	1666997.07	14362740.85	39°33'5.3033"N	80°54'20.5337"W	1722.40	93.694	1.16	1.14	-0.48	
5074.00	29.240	95.690	4644.61	-681.94	-114.75	1764.85	1667043.07	14362737.06	39°33'5.2654"N	80°54'19.9462"W	1768.57	93.720	1.10	-0.39	2.09	
5169.00	28.500	94.840	4727.81	-700.76	-118.97	1810.52	1667088.72	14362732.85	39°33'5.2233"N	80°54'19.3632"W	1814.42	93.759	0.89	-0.78	-0.89	
5265.00	29.150	92.760	4811.91	-718.66	-122.03	1856.70	1667134.88	14362729.79	39°33'5.1926"N	80°54'18.7738"W	1860.70	93.760	1.24	0.68	-2.17	
5360.00	29.340	91.800	4894.80	-735.47	-123.87	1903.07	1667181.24	14362727.95	39°33'5.1739"N	80°54'18.1818"W	1907.10	93.724	0.53	0.20	-1.01	
5455.00	30.840	93.780	4977.00	-753.14	-126.21	1950.63	1667228.78	14362725.61	39°33'5.1503"N	80°54'17.5746"W	1954.71	93.702	1.89	1.58	2.08	



Actual Wellpath Report

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Slot	Slot E		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5550.00	30.430	95.680	5058.74	-772.58	-130.19	1998.87	1667277.00	14362721.63	39°33'5.1104"N	80°54'16.9588"W	2003.11	93.727	1.11	-0.43	2.00	
5644.00	30.430	96.360	5139.80	-792.68	-135.19	2046.22	1667324.33	14362716.64	39°33'5.0605"N	80°54'16.3545"W	2050.68	93.780	0.37	0.00	0.72	
5739.00	30.370	94.910	5221.74	-812.69	-139.91	2094.06	1667372.15	14362711.92	39°33'5.0134"N	80°54'15.7438"W	2098.72	93.822	0.77	-0.06	-1.53	
5834.00	28.760	91.180	5304.37	-830.28	-142.43	2140.84	1667418.91	14362709.39	39°33'4.9879"N	80°54'15.1466"W	2145.57	93.806	2.57	-1.69	-3.93	
5928.00	27.610	90.280	5387.22	-845.25	-143.01	2185.23	1667463.29	14362708.82	39°33'4.9818"N	80°54'14.5799"W	2189.91	93.744	1.30	-1.22	-0.96	
6023.00	25.520	89.900	5472.19	-859.12	-143.08	2227.71	1667505.75	14362708.75	39°33'4.9806"N	80°54'14.0376"W	2232.30	93.675	2.21	-2.20	-0.40	
6118.00	25.110	82.780	5558.09	-869.84	-140.51	2268.19	1667546.21	14362711.32	39°33'5.0056"N	80°54'13.5209"W	2272.53	93.545	3.23	-0.43	-7.49	
6212.00	26.120	67.960	5642.94	-872.79	-130.23	2307.19	1667585.20	14362721.60	39°33'5.1068"N	80°54'13.0227"W	2310.87	93.231	6.88	1.07	-15.77	
6307.00	28.440	52.280	5727.47	-864.38	-108.51	2344.53	1667622.51	14362743.31	39°33'5.3210"N	80°54'12.5459"W	2347.03	92.650	7.93	2.44	-16.51	
6401.00	28.550	35.730	5810.22	-844.16	-76.53	2375.40	1667653.37	14362775.27	39°33'5.6368"N	80°54'12.1513"W	2376.63	91.845	8.38	0.12	-17.61	
6496.00	29.960	19.480	5893.23	-812.41	-35.67	2396.60	1667674.57	14362816.11	39°33'6.0404"N	80°54'11.8801"W	2396.86	90.853	8.47	1.48	-17.11	
6591.00	33.370	7.390	5974.16	-770.36	12.67	2407.88	1667685.85	14362864.43	39°33'6.5180"N	80°54'11.7354"W	2407.92	89.699	7.57	3.59	-12.73	
6649.00†	35.858	2.039	6021.90	-740.20	45.48	2410.54	1667688.50	14362897.23	39°33'6.8422"N	80°54'11.7010"W	2410.97	88.919	6.77	4.29	-9.23	Sycamore: 6649' MD
6685.00	37.510	359.040	6050.77	-719.93	66.97	2410.73	1667688.70	14362918.72	39°33'7.0547"N	80°54'11.6982"W	2411.66	88.409	6.77	4.59	-8.33	
6780.00	43.310	352.560	6123.11	-660.41	128.28	2406.02	1667683.99	14362980.00	39°33'7.6606"N	80°54'11.7575"W	2409.44	86.948	7.53	6.11	-6.82	
6783.00†	43.508	352.289	6125.29	-658.39	130.33	2405.75	1667683.72	14362982.04	39°33'7.6808"N	80°54'11.7610"W	2409.28	86.899	9.05	6.60	-9.02	Middlesex: 6783' MD
6875.00	49.850	344.850	6188.42	-592.13	195.76	2392.29	1667670.26	14363047.45	39°33'8.3277"N	80°54'11.9319"W	2400.29	85.322	9.05	6.89	-8.09	
6910.00†	52.667	342.281	6210.33	-564.87	221.94	2384.56	1667662.53	14363073.62	39°33'8.5865"N	80°54'12.0303"W	2394.86	84.683	9.88	8.05	-7.34	Burkett: 6910' MD
6912.00	52.830	342.140	6211.54	-563.28	223.45	2384.07	1667662.04	14363075.13	39°33'8.6015"N	80°54'12.0365"W	2394.52	84.645	9.88	8.13	-7.04	BH AT Curve <8-1/2"> (6875')(6912'-23078')
6942.00	54.550	340.290	6229.30	-539.10	246.33	2376.28	1667654.26	14363098.01	39°33'8.8277"N	80°54'12.1356"W	2389.02	84.082	7.59	5.73	-6.17	
6983.00†	60.263	342.381	6251.38	-504.58	279.05	2365.25	1667643.23	14363130.71	39°33'9.1512"N	80°54'12.2760"W	2381.66	83.271	14.58	13.93	5.10	Marcellus POE: 6983' MD
7037.00	67.830	344.800	6275.00	-456.11	325.60	2351.58	1667629.56	14363177.24	39°33'9.6113"N	80°54'12.4499"W	2374.01	82.117	14.58	14.01	4.48	
7132.00	82.970	348.410	6298.88	-364.91	414.78	2330.44	1667608.44	14363266.38	39°33'10.4929"N	80°54'12.7185"W	2367.07	79.908	16.35	15.94	3.80	
7227.00	90.860	345.900	6303.99	-270.67	507.18	2309.37	1667587.37	14363358.75	39°33'11.4064"N	80°54'12.9863"W	2364.40	77.613	8.71	8.31	-2.64	
7322.00	91.820	343.770	6301.77	-175.91	598.84	2284.52	1667562.54	14363450.37	39°33'12.3126"N	80°54'13.3022"W	2361.71	75.312	2.46	1.01	-2.24	
7416.00	91.940	343.990	6298.69	-82.07	689.10	2258.44	1667536.46	14363540.59	39°33'13.2049"N	80°54'13.6340"W	2361.23	73.032	0.27	0.13	0.23	
7511.00	91.350	341.620	6295.96	12.84	779.81	2230.37	1667508.40	14363631.26	39°33'14.1017"N	80°54'13.9911"W	2362.76	70.729	2.57	-0.62	-2.49	
7606.00	91.600	341.610	6293.51	107.80	869.93	2200.41	1667478.46	14363721.35	39°33'14.9927"N	80°54'14.3723"W	2366.14	68.429	0.26	0.26	-0.01	
7700.00	91.940	341.850	6290.61	201.75	959.15	2170.96	1667449.02	14363810.53	39°33'15.8748"N	80°54'14.7471"W	2373.40	66.164	0.44	0.36	0.26	
7795.00	90.400	340.250	6288.67	296.72	1048.97	2140.12	1667418.19	14363900.32	39°33'16.7629"N	80°54'15.1397"W	2383.37	63.888	2.34	-1.62	-1.68	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
7890.00	90.250	340.360	6288.13	391.71	1138.41	2108.10	1667386.19	14363989.73	39°33'17.6472"N	80°54'15.5472"W	2395.85	61.630	0.20	-0.16	0.12	
7985.00	90.520	341.530	6287.49	486.71	1228.21	2077.09	1667355.18	14364079.48	39°33'18.5350"N	80°54'15.9419"W	2413.04	59.404	1.26	0.28	1.23	
8079.00	91.020	342.300	6286.23	580.69	1317.55	2047.91	1667326.02	14364168.79	39°33'19.4183"N	80°54'16.3132"W	2435.13	57.244	0.98	0.53	0.82	
8174.00	91.820	340.880	6283.87	675.65	1407.66	2017.92	1667296.04	14364258.87	39°33'20.3092"N	80°54'16.6949"W	2460.39	55.101	1.72	0.84	-1.49	
8268.00	91.050	339.930	6281.52	769.61	1496.19	1986.40	1667264.54	14364347.36	39°33'21.1844"N	80°54'17.0960"W	2486.84	53.012	1.30	-0.82	-1.01	
8363.00	90.920	341.240	6279.89	864.59	1585.77	1954.83	1667232.98	14364436.90	39°33'22.0701"N	80°54'17.4979"W	2517.15	50.951	1.39	-0.14	1.38	
8458.00	90.280	340.520	6278.89	959.59	1675.52	1923.72	1667201.87	14364526.62	39°33'22.9575"N	80°54'17.8939"W	2551.09	48.945	1.01	-0.67	-0.76	
8552.00	90.490	341.110	6278.26	1053.58	1764.30	1892.83	1667171.00	14364615.36	39°33'23.8352"N	80°54'18.2871"W	2587.57	47.013	0.67	0.22	0.63	
8647.00	91.350	340.790	6276.74	1148.57	1854.08	1861.82	1667140.01	14364705.11	39°33'24.7229"N	80°54'18.6817"W	2627.55	45.119	0.97	0.91	-0.34	
8742.00	91.110	339.460	6274.70	1243.54	1943.40	1829.53	1667107.73	14364794.39	39°33'25.6060"N	80°54'19.0928"W	2669.08	43.271	1.42	-0.25	-1.40	
8837.00	91.390	339.060	6272.62	1338.47	2032.23	1795.90	1667074.11	14364883.18	39°33'26.4842"N	80°54'19.5210"W	2712.05	41.467	0.51	0.29	-0.42	
8932.00	90.520	340.080	6271.04	1433.42	2121.24	1762.74	1667040.97	14364972.15	39°33'27.3643"N	80°54'19.9431"W	2758.06	39.727	1.41	-0.92	1.07	
9026.00	90.460	340.800	6270.24	1527.41	2209.81	1731.28	1667009.51	14365060.69	39°33'28.2400"N	80°54'20.3437"W	2807.23	38.077	0.77	-0.06	0.77	
9121.00	91.170	341.150	6268.89	1622.40	2299.61	1700.31	1666978.56	14365150.46	39°33'29.1278"N	80°54'20.7378"W	2859.94	36.479	0.83	0.75	0.37	
9216.00	90.710	340.850	6267.33	1717.39	2389.42	1669.39	1666947.65	14365240.23	39°33'30.0158"N	80°54'21.1315"W	2914.82	34.940	0.58	-0.48	-0.32	
9310.00	89.880	341.140	6266.84	1811.38	2478.29	1638.78	1666917.05	14365329.07	39°33'30.8945"N	80°54'21.5211"W	2971.12	33.475	0.94	-0.88	0.31	
9405.00	89.850	341.590	6267.07	1906.38	2568.31	1608.42	1666886.70	14365419.05	39°33'31.7845"N	80°54'21.9075"W	3030.39	32.057	0.47	-0.03	0.47	
9500.00	90.950	341.650	6266.40	2001.37	2658.46	1578.47	1666856.76	14365509.17	39°33'32.6757"N	80°54'22.2887"W	3091.76	30.700	1.16	1.16	0.06	
9595.00	90.430	341.150	6265.26	2096.36	2748.49	1548.17	1666826.48	14365599.16	39°33'33.5659"N	80°54'22.6743"W	3154.53	29.392	0.76	-0.55	-0.53	
9689.00	92.090	342.530	6263.19	2190.33	2837.78	1518.88	1666797.20	14365688.42	39°33'34.4486"N	80°54'23.0471"W	3218.70	28.157	2.30	1.77	1.47	
9784.00	91.690	340.850	6260.06	2285.27	2927.92	1489.05	1666767.38	14365778.52	39°33'35.3398"N	80°54'23.4267"W	3284.81	26.956	1.82	-0.42	-1.77	
9878.00	90.340	340.640	6258.39	2379.25	3016.65	1458.06	1666736.40	14365867.21	39°33'36.2170"N	80°54'23.8213"W	3350.54	25.796	1.45	-1.44	-0.22	
9973.00	91.110	341.670	6257.19	2474.24	3106.55	1427.37	1666705.73	14365957.07	39°33'37.1058"N	80°54'24.2118"W	3418.78	24.677	1.35	0.81	1.08	
10068.00	90.490	341.600	6255.87	2569.22	3196.70	1397.45	1666675.81	14366047.19	39°33'37.9971"N	80°54'24.5928"W	3488.80	23.613	0.66	-0.65	-0.07	
10163.00	90.740	341.620	6254.85	2664.21	3286.84	1367.48	1666645.86	14366137.29	39°33'38.8883"N	80°54'24.9742"W	3559.96	22.590	0.26	0.26	0.02	
10257.00	90.370	341.350	6253.94	2758.21	3375.97	1337.63	1666616.02	14366226.39	39°33'39.7695"N	80°54'25.3541"W	3631.31	21.614	0.49	-0.39	-0.29	
10447.00	90.550	341.390	6252.41	2948.20	3556.01	1276.93	1666555.35	14366315.49	39°33'40.6507"N	80°54'25.7355"W	3702.66	20.543	0.10	0.09	0.02	
10541.00	91.200	342.570	6250.97	3042.17	3645.39	1247.86	1666526.29	14366406.35	39°33'41.5495"N	80°54'26.1169"W	3778.33	19.753	0.10	0.09	0.02	
10636.00	90.250	341.260	6249.77	3137.15	3735.68	1218.37	1666496.81	14366496.81	39°33'42.4331"N	80°54'26.4968"W	3853.05	18.897	1.43	0.69	1.26	
10731.00	89.970	340.760	6249.59	3232.15	3825.51	1187.46	1666465.91	14366585.95	39°33'43.3259"N	80°54'26.8721"W	3929.35	18.063	1.70	-1.00	-1.38	
									39°33'44.2140"N	80°54'27.2656"W	4005.57	17.245	0.60	-0.29	-0.53	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
10826.00	90.710	340.890	6249.03	3327.14	3915.24	1156.26	1666434.72	14366765.44	39°33'45.1011"N	80°54'27.6628"W	4082.41	16.453	0.79	0.78	0.14	
10921.00	90.250	339.870	6248.23	3422.13	4004.72	1124.36	1666402.84	14366854.88	39°33'45.9858"N	80°54'28.0689"W	4159.56	15.683	1.18	-0.48	-1.07	
11015.00	90.220	339.530	6247.84	3516.11	4092.88	1091.75	1666370.24	14366943.01	39°33'46.8574"N	80°54'28.4842"W	4235.99	14.935	0.36	-0.03	-0.36	
11205.00	90.310	339.690	6246.97	3706.05	4270.97	1025.55	1666304.07	14367121.03	39°33'48.6182"N	80°54'29.3270"W	4392.38	13.502	0.10	0.05	0.08	
11299.00	90.430	341.640	6246.36	3800.04	4359.67	994.43	1666272.96	14367209.69	39°33'49.4951"N	80°54'29.7233"W	4471.64	12.849	2.08	0.13	2.07	
11393.00	90.650	341.770	6245.47	3894.03	4448.91	964.92	1666243.47	14367298.90	39°33'50.3774"N	80°54'30.0988"W	4552.35	12.237	0.27	0.23	0.14	
11488.00	90.340	341.350	6244.65	3989.02	4539.03	934.87	1666213.43	14367388.98	39°33'51.2684"N	80°54'30.4813"W	4634.30	11.638	0.55	-0.33	-0.44	
11583.00	90.490	341.830	6243.96	4084.01	4629.16	904.87	1666183.44	14367479.08	39°33'52.1595"N	80°54'30.8632"W	4716.77	11.060	0.53	0.16	0.51	
11678.00	90.250	340.870	6243.35	4179.01	4719.17	874.49	1666153.07	14367569.05	39°33'53.0494"N	80°54'31.2500"W	4799.51	10.498	1.04	-0.25	-1.01	
11772.00	90.980	342.230	6242.34	4272.99	4808.33	844.75	1666123.34	14367658.17	39°33'53.9309"N	80°54'31.6286"W	4881.97	9.964	1.64	0.78	1.45	
11867.00	90.220	342.000	6241.35	4367.97	4898.74	815.57	1666094.18	14367748.54	39°33'54.8247"N	80°54'32.0000"W	4966.16	9.452	0.84	-0.80	-0.24	
11962.00	90.980	342.120	6240.35	4462.95	4989.11	786.31	1666064.93	14367838.88	39°33'55.7182"N	80°54'32.3724"W	5050.70	8.956	0.81	0.80	0.13	
12056.00	90.120	340.830	6239.45	4556.94	5078.23	756.45	1666035.08	14367927.97	39°33'56.5993"N	80°54'32.7526"W	5134.27	8.472	1.65	-0.91	-1.37	
12151.00	90.060	341.550	6239.30	4651.94	5168.16	725.82	1666004.46	14368017.86	39°33'57.4883"N	80°54'33.1425"W	5218.88	7.994	0.76	-0.06	0.76	
12246.00	90.550	340.960	6238.79	4746.94	5258.12	695.29	1665973.94	14368107.78	39°33'58.3777"N	80°54'33.5312"W	5303.89	7.533	0.81	0.52	-0.62	
12340.00	90.340	341.410	6238.06	4840.93	5347.09	664.98	1665943.64	14368196.72	39°33'59.2574"N	80°54'33.9171"W	5388.28	7.089	0.53	-0.22	0.48	
12435.00	90.280	340.890	6237.55	4935.93	5437.00	634.28	1665912.96	14368286.59	39°34'0.1462"N	80°54'34.3079"W	5473.87	6.654	0.55	-0.06	-0.55	
12530.00	90.860	341.980	6236.61	5030.92	5527.05	604.04	1665882.73	14368376.60	39°34'1.0365"N	80°54'34.6929"W	5559.96	6.237	1.30	0.61	1.15	
12625.00	91.140	342.330	6234.95	5125.89	5617.46	574.93	1665853.63	14368466.98	39°34'1.9304"N	80°54'35.0634"W	5646.81	5.844	0.47	0.29	0.37	
12719.00	90.580	341.990	6233.54	5219.86	5706.93	546.14	1665824.85	14368556.41	39°34'2.8149"N	80°54'35.4300"W	5733.00	5.466	0.70	-0.60	-0.36	
12814.00	90.340	340.970	6232.77	5314.85	5797.01	515.96	1665794.69	14368646.45	39°34'3.7055"N	80°54'35.8141"W	5819.92	5.086	1.10	-0.25	-1.07	
12909.00	90.710	341.800	6231.90	5409.85	5887.03	485.64	1665764.38	14368736.44	39°34'4.5955"N	80°54'36.2002"W	5907.03	4.716	0.96	0.39	0.87	
13004.00	90.460	341.780	6230.93	5504.83	5977.27	455.95	1665734.70	14368826.64	39°34'5.4877"N	80°54'36.5781"W	5994.64	4.362	0.26	-0.26	-0.02	
13099.00	90.180	341.170	6230.40	5599.83	6067.35	425.77	1665704.53	14368916.68	39°34'6.3782"N	80°54'36.9623"W	6082.27	4.014	0.71	-0.29	-0.64	
13193.00	90.830	342.220	6229.57	5693.82	6156.58	396.25	1665675.02	14369005.88	39°34'7.2604"N	80°54'37.3382"W	6169.32	3.683	1.31	0.69	1.12	
13288.00	90.460	341.610	6228.51	5788.80	6246.89	366.76	1665645.54	14369096.15	39°34'8.1532"N	80°54'37.7136"W	6257.64	3.360	0.75	-0.39	-0.64	
13382.00	90.090	341.650	6228.05	5882.79	6336.09	337.14	1665615.93	14369185.32	39°34'9.0352"N	80°54'38.0907"W	6345.06	3.046	0.40	-0.39	0.04	
13477.00	90.120	341.050	6227.88	5977.79	6426.10	306.76	1665585.57	14369275.30	39°34'9.9251"N	80°54'38.4775"W	6433.42	2.733	0.63	0.03	-0.63	
13572.00	89.850	340.980	6227.90	6072.79	6515.94	275.85	1665554.67	14369365.09	39°34'10.8132"N	80°54'38.8710"W	6521.77	2.424	0.29	-0.28	-0.07	
13666.00	90.770	342.310	6227.40	6166.78	6605.15	246.25	1665525.08	14369454.27	39°34'11.6952"N	80°54'39.2479"W	6609.74	2.135	1.72	0.98	1.41	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
13855.00	89.970	341.420	6226.18	6355.76	6784.76	187.43	1665466.28	14369633.80	39°34'13.4709"N	80°54'39.9968"W	6787.34	1.582	0.63	-0.42	-0.47	
13950.00	89.940	341.650	6226.25	6450.75	6874.86	157.34	1665436.21	14369723.88	39°34'14.3617"N	80°54'40.3799"W	6876.66	1.311	0.24	-0.03	0.24	
14044.00	90.220	341.880	6226.12	6544.74	6964.14	127.93	1665406.80	14369813.12	39°34'15.2444"N	80°54'40.7543"W	6965.32	1.052	0.39	0.30	0.24	
14139.00	90.370	342.090	6225.63	6639.73	7054.48	98.55	1665377.44	14369903.42	39°34'16.1375"N	80°54'41.1284"W	7055.17	0.800	0.27	0.16	0.22	
14234.00	89.850	341.220	6225.45	6734.72	7144.66	68.65	1665347.55	14369993.56	39°34'17.0290"N	80°54'41.5091"W	7144.99	0.550	1.07	-0.55	-0.92	
14329.00	89.600	340.660	6225.90	6829.72	7234.45	37.62	1665316.54	14370083.31	39°34'17.9167"N	80°54'41.9041"W	7234.54	0.298	0.65	-0.26	-0.59	
14423.00	90.340	342.020	6225.95	6923.72	7323.50	7.55	1665286.48	14370172.33	39°34'18.7972"N	80°54'42.2870"W	7323.51	0.059	1.65	0.79	1.45	
14518.00	90.520	341.660	6225.24	7018.71	7413.77	-22.06	1665256.88	14370262.56	39°34'19.6896"N	80°54'42.6640"W	7413.80	359.830	0.42	0.19	-0.38	
14612.00	90.000	340.220	6224.81	7112.70	7502.61	-52.75	1665226.20	14370351.37	39°34'20.5679"N	80°54'43.0548"W	7502.80	359.597	1.63	-0.55	-1.53	
14707.00	90.310	341.240	6224.56	7207.70	7592.29	-84.11	1665194.86	14370441.01	39°34'21.4545"N	80°54'43.4541"W	7592.75	359.365	1.12	0.33	1.07	
14802.00	90.060	340.570	6224.25	7302.70	7682.06	-115.18	1665163.79	14370530.75	39°34'22.3420"N	80°54'43.8498"W	7682.92	359.141	0.75	-0.26	-0.71	
14896.00	89.910	339.840	6224.27	7396.69	7770.50	-147.02	1665131.97	14370619.15	39°34'23.2165"N	80°54'44.2552"W	7771.89	358.916	0.79	-0.16	-0.78	
14991.00	90.000	340.320	6224.35	7491.67	7859.82	-179.38	1665099.62	14370708.43	39°34'24.0995"N	80°54'44.6675"W	7861.87	358.693	0.51	0.09	0.51	
15085.00	89.940	341.030	6224.40	7585.67	7948.52	-210.49	1665068.52	14370797.10	39°34'24.9765"N	80°54'45.0636"W	7951.31	358.483	0.76	-0.06	0.76	
15180.00	90.400	340.940	6224.12	7680.67	8038.34	-241.44	1665037.58	14370886.88	39°34'25.8644"N	80°54'45.4577"W	8041.96	358.280	0.49	0.48	-0.09	
15274.00	90.710	341.380	6223.21	7774.66	8127.30	-271.80	1665007.24	14370975.81	39°34'26.7439"N	80°54'45.8443"W	8131.84	358.085	0.57	0.33	0.47	
15369.00	89.910	340.190	6222.69	7869.66	8217.00	-303.06	1664975.99	14371065.47	39°34'27.6308"N	80°54'46.2424"W	8222.59	357.888	1.51	-0.84	-1.25	
15464.00	90.650	341.540	6222.23	7964.65	8306.75	-334.20	1664944.86	14371155.18	39°34'28.5181"N	80°54'46.6390"W	8313.47	357.696	1.62	0.78	1.42	
15558.00	89.630	340.380	6222.00	8058.65	8395.60	-364.86	1664914.21	14371244.00	39°34'29.3966"N	80°54'47.0295"W	8403.53	357.512	1.64	-1.09	-1.23	
15653.00	89.880	340.560	6222.40	8153.65	8485.14	-396.62	1664882.47	14371333.50	39°34'30.2817"N	80°54'47.4339"W	8494.40	357.324	0.32	0.26	0.19	
15747.00	89.880	340.470	6222.60	8247.64	8573.75	-427.98	1664851.12	14371422.08	39°34'31.1579"N	80°54'47.8333"W	8584.43	357.142	0.10	0.00	-0.10	
15842.00	89.970	340.620	6222.72	8342.64	8663.33	-459.62	1664819.50	14371511.62	39°34'32.0435"N	80°54'48.2362"W	8675.51	356.963	0.18	0.09	0.16	
15937.00	90.220	340.370	6222.57	8437.63	8752.88	-491.34	1664787.79	14371601.13	39°34'32.9288"N	80°54'48.6402"W	8766.66	356.787	0.37	0.26	-0.26	
16031.00	90.340	340.830	6222.11	8531.63	8841.54	-522.56	1664756.58	14371689.76	39°34'33.8053"N	80°54'49.0378"W	8856.97	356.618	0.51	0.13	0.49	
16126.00	90.090	340.460	6221.75	8626.63	8931.17	-554.05	1664725.11	14371779.35	39°34'34.6915"N	80°54'49.4388"W	8948.34	356.450	0.47	-0.26	-0.39	
16221.00	90.220	340.140	6221.49	8721.62	9020.61	-586.07	1664693.10	14371868.76	39°34'35.5757"N	80°54'49.8467"W	9039.62	356.283	0.36	0.14	-0.34	
16315.00	89.910	339.980	6221.39	8815.60	9108.97	-618.13	1664661.05	14371957.09	39°34'36.4494"N	80°54'50.2550"W	9129.92	356.118	0.37	-0.33	-0.17	
16410.00	90.740	340.650	6220.85	8910.59	9198.42	-650.13	1664629.06	14372046.50	39°34'37.3337"N	80°54'50.6626"W	9221.36	355.957	1.12	0.87	0.71	
16505.00	89.970	340.390	6220.26	9005.59	9287.98	-681.81	1664597.40	14372136.02	39°34'38.2191"N	80°54'51.0661"W	9312.97	355.802	0.86	-0.81	-0.27	
16599.00	90.460	340.520	6219.91	9099.58	9376.56	-713.25	1664565.96	14372224.57	39°34'39.0949"N	80°54'51.4666"W	9403.65	355.650	0.54	0.52	0.14	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
16694.00	89.880	340.670	6219.63	9194.58	9466.16	-744.82	1664534.41	14372314.13	39°34'39.9807"N	80°54'51.8686"W	9495.42	355.501	0.63	-0.61	0.16	
16788.00	89.850	340.570	6219.85	9288.57	9554.83	-776.01	1664503.23	14372402.77	39°34'40.8574"N	80°54'52.2659"W	9586.30	355.357	0.11	-0.03	-0.11	
16883.00	89.880	340.780	6220.07	9383.57	9644.48	-807.45	1664471.81	14372492.38	39°34'41.7437"N	80°54'52.6663"W	9678.22	355.214	0.22	0.03	0.22	
16978.00	89.850	340.720	6220.29	9478.57	9734.17	-838.77	1664440.50	14372582.03	39°34'42.6304"N	80°54'53.0652"W	9770.24	355.075	0.07	-0.03	-0.06	
17072.00	90.060	340.520	6220.37	9572.57	9822.84	-869.96	1664409.32	14372670.67	39°34'43.5071"N	80°54'53.4625"W	9861.29	354.939	0.31	0.22	-0.21	
17167.00	90.030	340.670	6220.29	9667.57	9912.45	-901.52	1664377.77	14372760.24	39°34'44.3929"N	80°54'53.8645"W	9953.36	354.803	0.16	-0.03	0.16	
17261.00	89.820	340.540	6220.42	9761.56	10001.11	-932.74	1664346.57	14372848.87	39°34'45.2695"N	80°54'54.2621"W	10044.51	354.672	0.26	-0.22	-0.14	
17356.00	89.820	340.050	6220.72	9856.55	10090.55	-964.77	1664314.55	14372938.27	39°34'46.1538"N	80°54'54.6701"W	10136.57	354.538	0.52	0.00	-0.52	
17450.00	89.260	340.360	6221.47	9950.54	10178.99	-996.60	1664282.73	14373026.68	39°34'47.0281"N	80°54'55.0756"W	10227.66	354.408	0.68	-0.60	0.33	
17545.00	89.850	340.340	6222.21	10045.53	10268.46	-1028.55	1664250.80	14373116.10	39°34'47.9126"N	80°54'55.4825"W	10319.84	354.280	0.62	0.62	-0.02	
17640.00	89.780	338.940	6222.51	10140.50	10357.52	-1061.60	1664217.76	14373205.13	39°34'48.7932"N	80°54'55.9035"W	10411.78	354.148	1.48	-0.07	-1.47	
17734.00	90.060	340.070	6222.65	10234.46	10445.57	-1094.51	1664184.86	14373293.14	39°34'49.6637"N	80°54'56.3228"W	10502.75	354.018	1.24	0.30	1.20	
17829.00	89.720	340.320	6222.83	10329.45	10534.95	-1126.70	1664152.69	14373382.49	39°34'50.5473"N	80°54'56.7328"W	10595.02	353.896	0.44	-0.36	0.26	
17924.00	89.940	340.550	6223.11	10424.45	10624.46	-1158.51	1664120.89	14373471.97	39°34'51.4323"N	80°54'57.1380"W	10687.44	353.777	0.34	0.23	0.24	
18018.00	89.880	340.370	6223.26	10518.44	10713.05	-1189.95	1664089.46	14373560.52	39°34'52.3081"N	80°54'57.5385"W	10778.93	353.662	0.20	-0.06	-0.19	
18113.00	90.150	340.520	6223.23	10613.44	10802.57	-1221.75	1664057.67	14373650.00	39°34'53.1932"N	80°54'57.9435"W	10871.44	353.547	0.33	0.28	0.16	
18208.00	89.600	340.000	6223.44	10708.43	10891.98	-1253.83	1664025.60	14373739.38	39°34'54.0772"N	80°54'58.3523"W	10963.91	353.433	0.80	-0.58	-0.55	
18302.00	89.940	340.690	6223.82	10802.42	10980.51	-1285.45	1663994.00	14373827.87	39°34'54.9524"N	80°54'58.7550"W	11055.49	353.323	0.82	0.36	0.73	
18396.00	89.940	340.110	6223.92	10896.41	11069.06	-1316.98	1663962.48	14373916.39	39°34'55.8278"N	80°54'59.1567"W	11147.13	353.215	0.62	0.00	-0.62	
18491.00	89.750	340.010	6224.17	10991.40	11158.36	-1349.38	1663930.09	14374005.66	39°34'56.7108"N	80°54'59.5694"W	11239.66	353.105	0.23	-0.20	-0.11	
18586.00	89.720	340.580	6224.61	11086.39	11247.80	-1381.41	1663898.07	14374095.06	39°34'57.5950"N	80°54'59.9775"W	11332.31	352.998	0.60	-0.03	0.60	
18680.00	89.820	340.350	6224.99	11180.38	11336.39	-1412.84	1663866.65	14374183.61	39°34'58.4708"N	80°55'0.3779"W	11424.09	352.896	0.27	0.11	-0.24	
18775.00	89.850	340.410	6225.26	11275.38	11425.87	-1444.74	1663834.77	14374273.06	39°34'59.3555"N	80°55'0.7842"W	11516.85	352.793	0.07	0.03	0.06	
18870.00	89.750	340.360	6225.60	11370.37	11515.36	-1476.63	1663802.89	14374362.51	39°35'0.2402"N	80°55'1.1905"W	11609.65	352.693	0.12	-0.11	-0.05	
18964.00	90.030	340.590	6225.78	11464.36	11603.95	-1508.05	1663771.49	14374451.07	39°35'1.1161"N	80°55'1.5907"W	11701.53	352.595	0.39	0.30	0.24	
19059.00	89.630	340.460	6226.06	11559.36	11693.52	-1539.72	1663739.83	14374540.59	39°35'2.0015"N	80°55'1.9942"W	11794.45	352.499	0.44	-0.42	-0.14	
19154.00	90.030	340.570	6226.34	11654.36	11783.07	-1571.41	1663708.15	14374630.12	39°35'2.8869"N	80°55'2.3978"W	11887.40	352.404	0.44	0.42	0.12	
19248.00	89.600	340.670	6226.64	11748.35	11871.75	-1602.60	1663676.97	14374718.75	39°35'3.7636"N	80°55'2.7952"W	11979.43	352.312	0.47	-0.46	0.11	
19343.00	89.970	340.640	6227.00	11843.35	11961.38	-1634.07	1663645.51	14374808.35	39°35'4.6498"N	80°55'3.1960"W	12072.48	352.221	0.39	0.39	-0.03	
19438.00	89.880	340.310	6227.12	11938.34	12050.92	-1665.82	1663613.78	14374897.85	39°35'5.5350"N	80°55'3.6005"W	12165.51	352.130	0.36	-0.09	-0.35	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
19532.00	89.940	340.240	6227.27	12032.34	12139.40	-1697.55	1663582.06	14374986.30	39°35'6.4098"N	80°55'4.0047"W	12257.52	352.040	0.10	0.06	-0.07	
19627.00	89.850	340.370	6227.45	12127.33	12228.85	-1729.56	1663550.06	14375075.71	39°35'7.2940"N	80°55'4.4126"W	12350.55	351.950	0.17	-0.09	0.14	
19722.00	89.750	341.250	6227.78	12222.33	12318.57	-1760.79	1663518.85	14375165.39	39°35'8.1810"N	80°55'4.8104"W	12443.77	351.865	0.93	-0.11	0.93	
19817.00	89.970	341.560	6228.01	12317.32	12408.61	-1791.08	1663488.57	14375255.40	39°35'9.0712"N	80°55'5.1962"W	12537.20	351.787	0.40	0.23	0.33	
19911.00	89.690	341.270	6228.29	12411.32	12497.70	-1821.04	1663458.62	14375344.46	39°35'9.9520"N	80°55'5.5779"W	12629.68	351.710	0.43	-0.30	-0.31	
20006.00	90.490	341.800	6228.14	12506.32	12587.81	-1851.13	1663428.54	14375434.53	39°35'10.8429"N	80°55'5.9611"W	12723.20	351.634	1.01	0.84	0.56	
20101.00	89.850	341.330	6227.86	12601.31	12677.94	-1881.17	1663398.51	14375524.62	39°35'11.7338"N	80°55'6.3438"W	12816.74	351.560	0.84	-0.67	-0.49	
20195.00	90.150	341.380	6227.86	12695.31	12767.00	-1911.22	1663368.47	14375613.65	39°35'12.6144"N	80°55'6.7266"W	12909.27	351.486	0.32	0.32	0.05	
20290.00	89.350	340.680	6228.27	12790.31	12856.84	-1942.10	1663337.60	14375703.45	39°35'13.5025"N	80°55'7.1200"W	13002.70	351.410	1.12	-0.84	-0.74	
20385.00	89.630	341.220	6229.12	12885.30	12946.63	-1973.11	1663306.61	14375793.21	39°35'14.3903"N	80°55'7.5150"W	13096.13	351.335	0.64	0.29	0.57	
20480.00	89.940	341.820	6229.47	12980.30	13036.73	-2003.22	1663276.51	14375883.27	39°35'15.2810"N	80°55'7.8985"W	13189.74	351.264	0.71	0.33	0.63	
20574.00	89.690	341.430	6229.78	13074.29	13125.94	-2032.85	1663246.89	14375972.44	39°35'16.1629"N	80°55'8.2760"W	13282.43	351.196	0.49	-0.27	-0.41	
20669.00	89.660	341.530	6230.32	13169.29	13216.02	-2063.03	1663216.73	14376062.49	39°35'17.0535"N	80°55'8.6604"W	13376.07	351.128	0.11	-0.03	0.11	
20764.00	89.570	341.230	6230.95	13264.28	13306.05	-2093.36	1663186.41	14376152.48	39°35'17.9435"N	80°55'9.0468"W	13469.71	351.059	0.33	-0.09	-0.32	
20858.00	89.420	341.130	6231.78	13358.28	13395.02	-2123.68	1663156.10	14376241.41	39°35'18.8231"N	80°55'9.4331"W	13562.32	350.991	0.19	-0.16	-0.11	
20953.00	89.660	341.590	6232.55	13453.27	13485.03	-2154.05	1663125.75	14376331.39	39°35'19.7129"N	80°55'9.8199"W	13655.99	350.924	0.55	0.25	0.48	
21047.00	89.380	341.450	6233.33	13547.27	13574.18	-2183.84	1663095.97	14376420.50	39°35'20.5943"N	80°55'10.1994"W	13748.73	350.860	0.33	-0.30	-0.15	
21142.00	89.570	341.560	6234.20	13642.26	13664.27	-2213.98	1663065.84	14376510.56	39°35'21.4849"N	80°55'10.5833"W	13842.47	350.797	0.23	0.20	0.12	
21236.00	89.320	341.030	6235.11	13736.26	13753.30	-2244.12	1663035.71	14376599.55	39°35'22.3651"N	80°55'10.9673"W	13935.18	350.733	0.62	-0.27	-0.56	
21331.00	89.380	341.350	6236.19	13831.25	13843.22	-2274.75	1663005.09	14376689.43	39°35'23.2541"N	80°55'11.3575"W	14028.87	350.668	0.34	0.06	0.34	
21426.00	89.260	341.580	6237.32	13926.24	13933.29	-2304.95	1662974.91	14376779.46	39°35'24.1445"N	80°55'11.7422"W	14122.65	350.607	0.27	-0.13	0.24	
21521.00	89.420	341.740	6238.41	14021.23	14023.45	-2334.84	1662945.03	14376869.60	39°35'25.0359"N	80°55'12.1230"W	14216.49	350.547	0.24	0.17	0.17	
21615.00	89.290	342.080	6239.47	14115.21	14112.80	-2364.02	1662915.86	14376958.91	39°35'25.9192"N	80°55'12.4948"W	14309.43	350.491	0.39	-0.14	0.36	
21710.00	89.230	341.890	6240.70	14210.19	14203.14	-2393.40	1662886.49	14377049.21	39°35'26.8123"N	80°55'12.8690"W	14403.38	350.435	0.21	-0.06	-0.20	
21805.00	89.140	342.120	6242.05	14305.17	14293.48	-2422.75	1662857.16	14377139.51	39°35'27.7054"N	80°55'13.2428"W	14497.35	350.380	0.26	-0.09	0.24	
21899.00	89.630	341.850	6243.06	14399.15	14382.87	-2451.81	1662828.10	14377228.87	39°35'28.5891"N	80°55'13.6131"W	14590.35	350.326	0.60	0.52	-0.29	
21993.00	90.310	341.860	6243.11	14493.14	14472.19	-2481.09	1662798.84	14377318.15	39°35'29.4721"N	80°55'13.9860"W	14683.33	350.272	0.72	0.72	0.01	
22087.00	89.320	341.300	6243.41	14587.13	14561.37	-2510.79	1662769.15	14377407.30	39°35'30.3538"N	80°55'14.3644"W	14776.25	350.217	1.21	-1.05	-0.60	
22181.00	89.080	341.320	6244.72	14681.12	14650.41	-2540.91	1662739.04	14377496.30	39°35'31.2340"N	80°55'14.7481"W	14869.12	350.161	0.26	-0.26	0.02	
22275.00	89.630	341.860	6245.78	14775.11	14739.59	-2570.59	1662709.37	14377585.45	39°35'32.1157"N	80°55'15.1263"W	14962.07	350.107	0.82	0.59	0.57	



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

WELLPATH DATA (249 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
22369.00	89.260	341.520	6246.69	14869.10	14828.83	-2600.12	1662679.85	14377674.65	39°35'32.9979"N	80°55'15.5025"W	15055.06	350.055	0.53	-0.39	-0.36	
22463.00	89.480	341.910	6247.73	14963.09	14918.08	-2629.61	1662650.37	14377763.86	39°35'33.8802"N	80°55'15.8782"W	15148.06	350.003	0.48	0.23	0.41	
22557.00	89.080	341.510	6248.91	15057.07	15007.32	-2659.11	1662620.89	14377853.07	39°35'34.7625"N	80°55'16.2540"W	15241.08	349.952	0.60	-0.43	-0.43	
22652.00	89.260	341.620	6250.28	15152.06	15097.43	-2689.15	1662590.86	14377943.15	39°35'35.6534"N	80°55'16.6367"W	15335.06	349.900	0.22	0.19	0.12	
22746.00	89.320	341.710	6251.45	15246.05	15186.66	-2718.72	1662561.30	14378032.33	39°35'36.5354"N	80°55'17.0134"W	15428.09	349.850	0.12	0.06	0.10	
22840.00	89.050	341.470	6252.79	15340.03	15275.84	-2748.40	1662531.63	14378121.48	39°35'37.4170"N	80°55'17.3916"W	15521.11	349.801	0.38	-0.29	-0.26	
23030.00	91.170	341.920	6252.42	15530.01	15456.21	-2808.07	1662471.99	14378301.78	39°35'39.2002"N	80°55'18.1518"W	15709.22	349.703	1.14	1.12	0.24	
23078.00	90.400	342.010	6251.76	15578.00	15501.85	-2822.93	1662457.13	14378347.40	39°35'39.6514"N	80°55'18.3411"W	15756.78	349.679	1.62	-1.60	0.19	
23103.00†	90.400	342.010	6251.59	15602.99	15525.62	-2830.65	1662449.42	14378371.16	39°35'39.8865"N	80°55'18.4395"W	15781.56	349.667	0.00	0.00	0.00	Projected MD at TD: 23103'

HOLE & CASING SECTIONS - Ref Wellbore: Tangerine Unit 1H AWB Ref Wellpath: Tangerine Unit 1H AWP Proj: 23103'

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	25.50	125.50	100.00	25.50	125.50	0.00	0.00	-0.18	0.27
17.5in Open Hole	125.50	653.00	527.50	125.50	652.99	-0.18	0.27	-2.24	-0.84
13.375in Casing Surface	25.50	633.00	607.50	25.50	632.99	0.00	0.00	-2.23	-0.81
12.25in Open Hole	653.00	3379.00	2726.00	652.99	3171.53	-2.24	-0.84	-61.89	932.74
9.625in Casing Intermediate	25.50	3349.00	3323.50	25.50	3144.97	0.00	0.00	-63.41	918.88
8.75in Open Hole	3379.00	6937.00	3558.00	3171.53	6226.39	-61.89	932.74	242.50	2377.64
8.5in Open Hole	6937.00	23103.00	16166.00	6226.39	6251.59	242.50	2377.64	15525.62	-2830.65
5.5in Casing Production	25.50	23083.00	23057.50	25.50	6251.73	0.00	0.00	15506.60	-2824.47



Actual Wellpath Report

Tangerine Unit 1H AWP Proj: 23103'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Tangerine Unit 1H BHL Rev-4	6198.96	17971.76	-3676.18	1661604.23	14380816.32	39°36'4.0692"N	80°55'29.2141"W	point
Tangerine Unit 1H BHL Rev-5	6212.43	15537.98	-2840.11	1662439.96	14378383.51	39°35'40.0086"N	80°55'18.5602"W	point
Tangerine Unit 1H POE Rev-4	6252.00	389.14	2363.87	1667641.85	14363240.75	39°33'10.2392"N	80°54'12.2921"W	point
Tangerine Unit 1H LP Rev-4	6295.00	623.88	2283.23	1667561.24	14363475.39	39°33'12.5600"N	80°54'13.3184"W	point
Tangerine Unit 1H 50' L/R Hard Line Rev-2	6650.00	7963.56	-238.12	1665040.90	14370812.13	39°34'25.1253"N	80°54'45.4163"W	rectangle
2D Rectangle 16017.8 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Tangerine Unit 1H AWB Ref Wellpath: Tangerine Unit 1H AWP Proj: 23103'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	647.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-647')	Tangerine Unit 1H AWB	6/20/2023
647.00	3305.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (647')(765'-3305')	Tangerine Unit 1H AWB	6/20/2023
3305.00	6875.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3305')(3368'-6875')	Tangerine Unit 1H AWB	8/9/2023
6875.00	23103.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6875')(6912'-23078')	Tangerine Unit 1H AWB	8/9/2023



Actual Wellpath Report
 Tangerine Unit 1H AWP Proj: 23103'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 1H
Field	Tyler	API	47-095-02866-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 1H AWB
Slot	Slot E		

COMMENTS
<p>Wellpath general comments API: 47-095-02866-0000 BH Job #: 111856018 Rig: H&P 317 Duration: 8/11/2023-8/16/2023 Gyrodata MS Gyro <17-1/2"> (100'-647') APS EM <12-1/4"> (647')(765'-3305') APS EM <8-3/4"> (3305')(3368'-6875') BH AT Curve <8-1/2"> (6875')(6912'-23078') Sycamore: 6649' MD Middlesex: 6783' MD Burkett: 6910' MD Marcellus POE: 6983' MD Projected MD at TD: 23103'</p>

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