



ANTERO RESOURCES CORPORATION

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

Slot: Slot F
Well: Tangerine Unit 2H ST01
Wellbore: Tangerine Unit 2H ST01 PWB

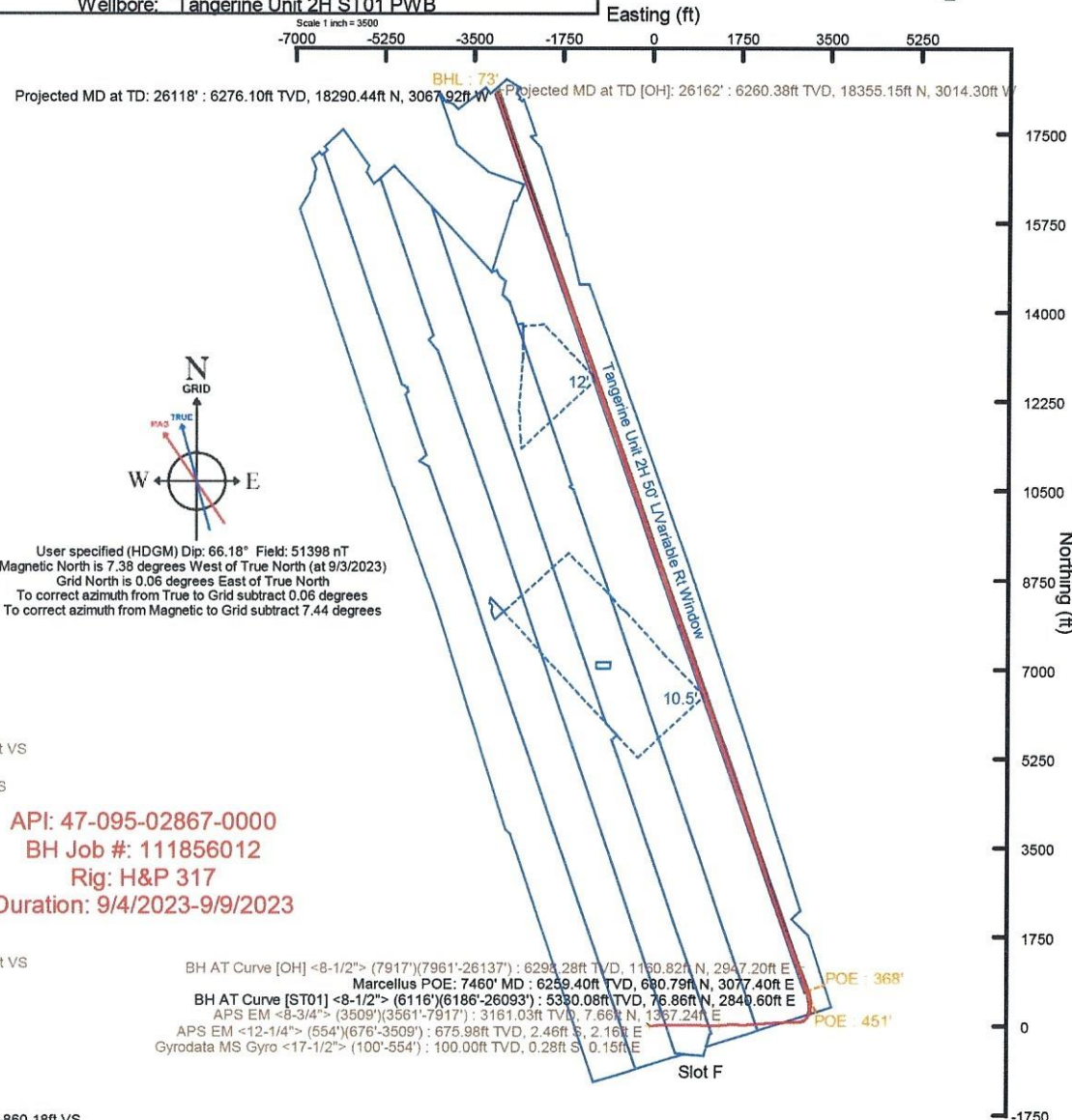
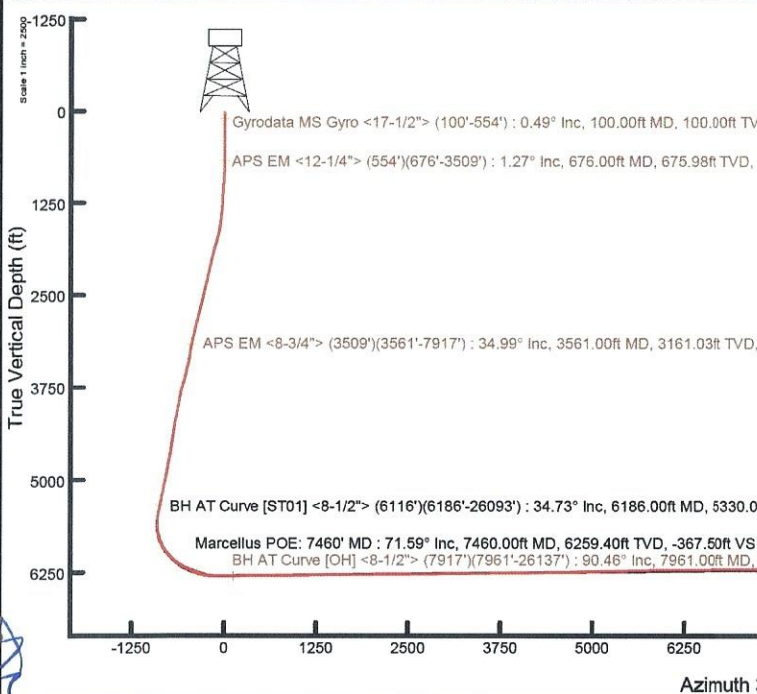


Plot reference wellpath is Tangerine Unit 2H ST01 PWP Rev-D.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1032.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot F): -1007 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-09-12; Database: WA_MPL_EASTERNUS_Oeth

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Dry Run Pad	1665236.690	14362894.350	39°33'6.8386"N	80°54'43.0140"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot F	-53.24	52.83	1665289.500	14362841.130	39°33'6.3119"N	80°54'42.3402"W
Comment	Tangerine Unit 2H					
H&P 317 (RKB) to Ground level (At Slot: Slot F)						25.5ft
Mean Sea Level to Ground level (At Slot: Slot F)						-1007ft
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	6116.00	35.900	88.330	5272.96	75.29	2800.17	1.36	-848.38
Next Survey	6213.00	34.130	88.870	5352.40	76.66	2855.81	1.85	-865.36
Sidetrack Point	6222.00	34.084	88.923	5359.85	76.76	2860.86	0.61	-866.92
End of Drop	6316.00	28.444	88.923	5440.17	77.67	2909.61	6.00	-882.07
Hold / Gain Separation	6409.00	28.444	88.923	5521.94	78.51	2953.90	0.00	-895.83
Turn	7329.21	65.382	347.778	6216.35	559.42	3105.96	8.00	-491.61
POE	7428.40	70.036	340.833	6254.00	647.56	3081.07	8.00	-399.99
Landing Pt.	7685.45	90.600	340.833	6297.00	885.72	2998.32	8.00	-147.96
BHL	26126.57	90.600	340.833	6103.90	18302.63	-3055.80	0.00	18291.15

Well Data			
Slot	Well	Wellbore	Wellpath
Slot F	Tangerine Unit 2H	Tangerine Unit 2H AWB	Tangerine Unit 2H AWP Proj: 26162'
Slot F	Tangerine Unit 2H ST01	Tangerine Unit 2H ST01 AWB	Tangerine Unit 2H ST01 AWP Proj: 26118'
Slot F	Tangerine Unit 2H ST01	Tangerine Unit 2H ST01 PWB	Tangerine Unit 2H ST01 PWP Rev-D.0



User specified (HDGM) Dip: 66.18° Field: 51398 nT
Magnetic North is 7.38 degrees West of True North (at 9/3/2023)
Grid North is 0.06 degrees East of True North
To correct azimuth from True to Grid subtract 0.06 degrees
To correct azimuth from Magnetic to Grid subtract 7.44 degrees

API: 47-095-02867-0000
BH Job #: 111856012
Rig: H&P 317
Duration: 9/4/2023-9/9/2023

BH AT Curve [OH] <8-1/2"> (7917°)(7961°-26137') : 6298.28ft TVD, 1160.82ft N, 2947.20ft E
Marcellus POE: 7460' MD : 6259.40ft TVD, 680.79ft N, 3077.40ft E
BH AT Curve [ST01] <8-1/2"> (6116°)(6186°-26093') : 5330.08ft TVD, 76.86ft N, 2840.60ft E
APS EM <8-3/4"> (3509°)(3561°-7917') : 3161.03ft TVD, 7.66ft N, 1367.24ft E
APS EM <12-1/4"> (554°)(676°-3509') : 675.98ft TVD, 2.46ft N, 2.16ft E
Gyrodatta MS Gyro <17-1/2"> (100°-554') : 100.00ft TVD, 0.28ft S, 0.15ft E

Projected MD at TD [OH]: 26162' : 90.55° Inc, 26162.00ft MD, 6260.38ft TVD, 18327.14ft VS
Projected MD at TD: 26118' : 90.06° Inc, 26118.00ft MD, 6276.10ft TVD, 18283.63ft VS

Vertical Section (ft)
Azimuth 340.83° with reference 0.00 N, 0.00 E

Scale 1 inch = 2500



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

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	9/12/2023 at 11:35:38 AM
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	-53.24	52.83	1665289.50	14362841.13	39°33'6.3119"N	80°54'42.3402"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 F)	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	340.83°



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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	152.750	0.00	0.00	0.00	0.00	1665289.50	14362841.13	39°33'6.3119"N	80°54'42.3402"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	152.750	25.50	0.00	0.00	0.00	1665289.50	14362841.13	39°33'6.3119"N	80°54'42.3402"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.490	152.750	100.00	-0.32	-0.28	0.15	1665289.65	14362840.85	39°33'6.3091"N	80°54'42.3384"W	0.32	152.750	0.66	0.66	0.00	Gyrodata MS Gyro <17-1/2"> (100'-554')
200.00	0.400	144.700	200.00	-1.07	-0.95	0.54	1665290.04	14362840.18	39°33'6.3026"N	80°54'42.3333"W	1.09	150.186	0.11	-0.09	-8.05	
300.00	0.330	166.870	299.99	-1.70	-1.51	0.81	1665290.31	14362839.62	39°33'6.2970"N	80°54'42.3299"W	1.72	151.832	0.16	-0.07	22.17	
400.00	0.340	199.290	399.99	-2.21	-2.07	0.78	1665290.28	14362839.06	39°33'6.2914"N	80°54'42.3303"W	2.22	159.441	0.19	0.01	32.42	
500.00	0.090	259.790	499.99	-2.43	-2.37	0.60	1665290.10	14362838.76	39°33'6.2885"N	80°54'42.3326"W	2.44	165.723	0.31	-0.25	60.50	
554.00	0.160	96.770	553.99	-2.46	-2.38	0.64	1665290.14	14362838.75	39°33'6.2884"N	80°54'42.3322"W	2.47	165.072	0.46	0.13	-301.89	
676.00	1.270	92.240	675.98	-3.03	-2.46	2.16	1665291.66	14362838.67	39°33'6.2876"N	80°54'42.3128"W	3.27	138.739	0.91	0.91	-3.71	APS EM <12-1/4"> (554')(676'-3509')
764.00	3.880	96.950	763.88	-4.70	-2.86	6.09	1665295.58	14362838.28	39°33'6.2837"N	80°54'42.2626"W	6.72	115.136	2.97	2.97	5.35	
855.00	6.040	97.990	854.54	-8.24	-3.89	13.88	1665303.38	14362837.24	39°33'6.2733"N	80°54'42.1630"W	14.42	105.666	2.38	2.37	1.14	
944.00	8.750	91.350	942.79	-12.75	-4.70	25.29	1665314.78	14362836.43	39°33'6.2652"N	80°54'42.0174"W	25.73	100.537	3.19	3.04	-7.46	
1033.00	11.100	87.570	1030.45	-17.59	-4.50	40.62	1665330.10	14362836.63	39°33'6.2671"N	80°54'41.8217"W	40.87	96.322	2.74	2.64	-4.25	
1127.00	13.490	85.120	1122.29	-22.90	-3.18	60.59	1665350.06	14362837.95	39°33'6.2799"N	80°54'41.5668"W	60.67	93.008	2.60	2.54	-2.61	
1222.00	17.220	81.590	1213.89	-28.27	-0.18	85.55	1665375.02	14362840.95	39°33'6.3093"N	80°54'41.2481"W	85.55	90.123	4.05	3.93	-3.72	
1316.00	21.230	80.840	1302.63	-33.82	4.56	116.13	1665405.58	14362845.69	39°33'6.3559"N	80°54'40.8577"W	116.22	87.750	4.27	4.27	-0.80	
1411.00	25.230	80.120	1389.91	-40.08	10.78	153.07	1665442.51	14362851.90	39°33'6.4170"N	80°54'40.3860"W	153.45	85.973	4.22	4.21	-0.76	
1506.00	28.360	83.170	1474.70	-48.18	16.94	195.43	1665484.86	14362858.06	39°33'6.4774"N	80°54'39.8451"W	196.17	85.047	3.60	3.29	3.21	
1601.00	30.750	87.090	1557.34	-59.80	20.85	242.10	1665531.51	14362861.98	39°33'6.5157"N	80°54'39.2492"W	243.00	85.077	3.23	2.52	4.13	
1695.00	33.600	90.430	1636.90	-75.26	21.88	292.13	1665581.51	14362863.00	39°33'6.5253"N	80°54'38.6106"W	292.94	85.717	3.57	3.03	3.55	
1790.00	36.090	93.020	1714.87	-94.65	20.21	346.36	1665635.72	14362861.33	39°33'6.5083"N	80°54'37.9182"W	346.95	86.661	3.05	2.62	2.73	
1885.00	36.220	91.640	1791.57	-115.19	17.93	402.36	1665691.70	14362859.05	39°33'6.4852"N	80°54'37.2034"W	402.76	87.449	0.87	0.14	-1.45	
1979.00	36.570	91.580	1867.24	-134.98	16.36	458.11	1665747.43	14362857.49	39°33'6.4692"N	80°54'36.4917"W	458.41	87.954	0.37	0.37	-0.06	
2074.00	37.240	91.050	1943.20	-154.94	15.06	515.14	1665804.44	14362856.18	39°33'6.4557"N	80°54'35.7636"W	515.36	88.326	0.78	0.71	-0.56	
2169.00	37.830	89.780	2018.54	-174.33	14.64	573.02	1665862.29	14362855.76	39°33'6.4510"N	80°54'35.0248"W	573.21	88.536	1.02	0.62	-1.34	
2264.00	37.440	88.180	2093.77	-192.41	15.67	631.02	1665920.26	14362856.79	39°33'6.4606"N	80°54'34.2844"W	631.21	88.578	1.11	-0.41	-1.68	
2358.00	35.340	87.960	2169.44	-208.94	17.55	686.75	1665975.97	14362856.67	39°33'6.4786"N	80°54'33.5728"W	686.97	88.537	2.24	-2.23	-0.23	
2453.00	34.020	90.030	2247.56	-225.77	18.51	740.79	1666029.99	14362859.63	39°33'6.4876"N	80°54'32.8830"W	741.02	88.569	1.86	-1.39	2.18	
2548.00	33.900	92.110	2326.36	-244.13	17.52	793.84	1666083.02	14362858.64	39°33'6.4773"N	80°54'32.2057"W	794.03	88.736	1.23	-0.13	2.19	
2643.00	33.560	91.860	2405.37	-263.16	15.69	846.56	1666135.72	14362856.82	39°33'6.4587"N	80°54'31.5327"W	846.70	88.938	0.39	-0.36	-0.26	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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	33.000	90.170	2483.95	-280.97	14.77	898.13	1666187.27	14362855.90	39°33'6.4491"N	80°54'30.8744"W	898.25	89.058	1.15	-0.60	-1.80	
2832.00	32.880	91.410	2563.68	-298.60	14.06	949.78	1666238.89	14362855.19	39°33'6.4415"N	80°54'30.2150"W	949.88	89.152	0.72	-0.13	1.31	
2927.00	33.270	94.040	2643.29	-317.93	11.59	1001.55	1666290.65	14362852.72	39°33'6.4166"N	80°54'29.5541"W	1001.62	89.337	1.57	0.41	2.77	
3021.00	34.170	91.420	2721.48	-337.38	9.12	1053.66	1666342.74	14362850.25	39°33'6.3916"N	80°54'28.8888"W	1053.70	89.504	1.82	0.96	-2.79	
3116.00	35.360	90.770	2799.52	-356.14	8.09	1107.82	1666396.88	14362849.22	39°33'6.3809"N	80°54'28.1974"W	1107.85	89.582	1.31	1.25	-0.68	
3210.00	35.400	91.060	2876.16	-374.83	7.22	1162.24	1666451.27	14362848.35	39°33'6.3718"N	80°54'27.5027"W	1162.26	89.644	0.18	0.04	0.31	
3305.00	36.360	90.990	2953.13	-394.05	6.22	1217.91	1666506.92	14362847.35	39°33'6.3614"N	80°54'26.7921"W	1217.93	89.707	1.01	1.01	-0.07	
3400.00	35.910	90.430	3029.86	-413.10	5.53	1273.93	1666562.91	14362846.66	39°33'6.3539"N	80°54'26.0770"W	1273.94	89.751	0.59	-0.47	-0.59	
3494.00	35.460	88.300	3106.21	-430.53	6.13	1328.75	1666617.71	14362847.26	39°33'6.3593"N	80°54'25.3771"W	1328.76	89.736	1.41	-0.48	-2.27	
3509.00	35.100	87.690	3118.46	-433.09	6.43	1337.41	1666626.37	14362847.56	39°33'6.3622"N	80°54'25.2666"W	1337.42	89.724	3.36	-2.40	-4.07	
3561.00	34.990	87.600	3161.03	-441.73	7.66	1367.24	1666656.19	14362848.79	39°33'6.3740"N	80°54'24.8857"W	1367.26	89.679	0.23	-0.21	-0.17	APS EM <8-3/4"> (3509')(3561'-7917')
3655.00	34.010	83.570	3238.51	-455.30	11.73	1420.30	1666709.23	14362852.86	39°33'6.4138"N	80°54'24.2082"W	1420.35	89.527	2.64	-1.04	-4.29	
3750.00	35.710	83.340	3316.46	-467.17	17.93	1474.24	1666763.15	14362859.05	39°33'6.4744"N	80°54'23.5195"W	1474.35	89.303	1.79	1.79	-0.24	
3845.00	37.380	87.210	3392.79	-481.31	22.55	1530.59	1666819.48	14362863.67	39°33'6.5195"N	80°54'22.8000"W	1530.76	89.156	3.00	1.76	4.07	
3939.00	36.940	89.080	3467.70	-498.20	24.39	1587.34	1666876.20	14362865.51	39°33'6.5371"N	80°54'22.0756"W	1587.53	89.120	1.29	-0.47	1.99	
4034.00	35.590	90.270	3544.30	-516.34	24.72	1643.53	1666932.37	14362865.84	39°33'6.5398"N	80°54'21.3583"W	1643.71	89.138	1.60	-1.42	1.25	
4129.00	35.410	90.810	3621.64	-534.95	24.20	1698.69	1666987.51	14362865.32	39°33'6.5341"N	80°54'20.6540"W	1698.87	89.184	0.38	-0.19	0.57	
4223.00	35.200	93.980	3698.36	-554.91	21.93	1752.95	1667041.75	14362863.05	39°33'6.5111"N	80°54'19.9614"W	1753.09	89.283	1.96	-0.22	3.37	
4318.00	34.500	93.010	3776.32	-575.83	18.62	1807.14	1667095.91	14362859.74	39°33'6.4778"N	80°54'19.2697"W	1807.23	89.410	0.94	-0.74	-1.02	
4413.00	34.610	87.050	3854.58	-593.53	18.59	1860.96	1667149.72	14362859.72	39°33'6.4770"N	80°54'18.5825"W	1861.06	89.428	3.56	0.12	-6.27	
4507.00	33.920	85.790	3932.27	-607.75	21.89	1913.78	1667202.51	14362863.01	39°33'6.5091"N	80°54'17.9082"W	1913.91	89.345	1.05	-0.73	-1.34	
4602.00	34.760	89.430	4010.72	-623.24	24.11	1967.30	1667256.01	14362865.23	39°33'6.5304"N	80°54'17.2249"W	1967.45	89.298	2.33	0.88	3.83	
4696.00	35.460	87.860	4087.62	-639.77	25.39	2021.35	1667310.04	14362866.51	39°33'6.5425"N	80°54'16.5349"W	2021.51	89.280	1.22	0.74	-1.67	
4791.00	35.440	85.620	4165.01	-654.87	28.53	2076.35	1667365.02	14362869.64	39°33'6.5729"N	80°54'15.8327"W	2076.55	89.213	1.37	-0.02	-2.36	
4886.00	35.020	84.590	4242.61	-668.39	33.20	2130.95	1667419.60	14362874.32	39°33'6.6185"N	80°54'15.1356"W	2131.21	89.107	0.77	-0.44	-1.08	
4981.00	33.640	83.850	4321.06	-680.80	38.59	2184.25	1667472.88	14362879.70	39°33'6.6712"N	80°54'14.4551"W	2184.59	88.988	1.52	-1.45	-0.78	
5076.00	31.960	84.990	4400.91	-692.88	43.60	2235.47	1667524.07	14362884.72	39°33'6.7202"N	80°54'13.8012"W	2235.89	88.883	1.88	-1.77	1.20	
5170.00	29.690	85.560	4481.63	-704.89	47.58	2283.47	1667572.05	14362888.69	39°33'6.7590"N	80°54'13.1884"W	2283.96	88.806	2.43	-2.41	0.61	
5265.00	30.380	84.870	4563.87	-716.70	51.55	2330.85	1667619.41	14362892.66	39°33'6.7978"N	80°54'12.5834"W	2331.42	88.733	0.81	0.73	-0.73	
5359.00	31.140	86.850	4644.65	-729.17	55.01	2378.79	1667667.34	14362896.12	39°33'6.8315"N	80°54'11.9713"W	2379.43	88.675	1.35	0.81	2.11	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
5454.00	33.560	87.380	4724.90	-743.43	57.56	2429.56	1667718.08	14362898.67	39°33'6.8561"N	80°54'11.3232"W	2430.24	88.643	2.56	2.55	0.56	
5549.00	32.410	86.850	4804.58	-757.94	60.16	2481.21	1667769.72	14362901.27	39°33'6.8813"N	80°54'10.6637"W	2481.94	88.611	1.25	-1.21	-0.56	
5643.00	32.260	85.930	4884.01	-771.42	63.32	2531.39	1667819.87	14362904.43	39°33'6.9120"N	80°54'10.0231"W	2532.18	88.567	0.55	-0.16	-0.98	
5737.00	34.820	88.120	4962.35	-785.94	65.99	2583.25	1667871.71	14362907.09	39°33'6.9378"N	80°54'9.3611"W	2584.09	88.537	3.01	2.72	2.33	
5832.00	35.830	86.740	5039.86	-801.62	68.46	2638.12	1667926.56	14362909.56	39°33'6.9616"N	80°54'8.6605"W	2639.00	88.514	1.35	1.06	-1.45	
5927.00	34.010	86.430	5117.76	-816.39	71.69	2692.40	1667980.82	14362912.79	39°33'6.9930"N	80°54'7.9675"W	2693.35	88.475	1.92	-1.92	-0.33	
6021.00	34.630	88.770	5195.39	-831.69	73.90	2745.34	1668033.74	14362915.00	39°33'7.0143"N	80°54'7.2916"W	2746.34	88.458	1.55	0.66	2.49	
6116.00	35.900	88.330	5272.96	-848.38	75.29	2800.17	1668088.55	14362916.39	39°33'7.0274"N	80°54'6.5916"W	2801.18	88.460	1.36	1.34	-0.46	
6186.00	34.730	87.220	5330.08	-860.18	76.86	2840.60	1668128.96	14362917.96	39°33'7.0425"N	80°54'6.0754"W	2841.64	88.450	1.91	-1.67	-1.59	BH AT Curve [ST01] <-8-1/2"> (6116')(6186'-26093')
6281.00	33.480	87.470	5408.74	-875.32	79.33	2893.81	1668182.15	14362920.43	39°33'7.0663"N	80°54'5.3961"W	2894.90	88.430	1.32	-1.32	0.26	
6376.00	31.240	84.250	5488.98	-888.54	82.95	2944.51	1668232.83	14362924.05	39°33'7.1016"N	80°54'4.7488"W	2945.68	88.386	2.97	-2.36	-3.39	
6470.00	25.910	77.390	5571.53	-896.55	89.89	2988.85	1668277.15	14362930.98	39°33'7.1696"N	80°54'4.1827"W	2990.20	88.277	6.65	-5.67	-7.30	
6565.00	24.890	64.290	5657.41	-896.65	103.10	3027.15	1668315.43	14362944.19	39°33'7.2998"N	80°54'3.6936"W	3028.90	88.049	6.00	-1.07	-13.79	
6660.00	26.170	48.650	5743.23	-886.45	125.64	3060.93	1668349.20	14362966.72	39°33'7.5222"N	80°54'3.2620"W	3063.51	87.650	7.20	1.35	-16.46	
6754.00	31.970	34.050	5825.46	-863.68	160.03	3090.49	1668378.75	14363001.09	39°33'7.8617"N	80°54'2.8842"W	3094.63	87.036	9.71	6.17	-15.53	
6849.00	36.210	21.130	5904.22	-827.15	207.12	3114.73	1668402.98	14363048.17	39°33'8.3269"N	80°54'2.5741"W	3121.61	86.196	8.81	4.46	-13.60	
6944.00	40.820	11.570	5978.60	-778.99	263.80	3131.09	1668419.34	14363104.82	39°33'8.8869"N	80°54'2.3643"W	3142.19	85.184	7.91	4.85	-10.06	
7013.00†	44.543	5.311	6029.34	-737.55	310.03	3137.86	1668426.10	14363151.03	39°33'9.3437"N	80°54'2.2773"W	3153.14	84.357	8.18	5.40	-9.07	Sycamore: 7013' MD
7038.00	45.970	3.250	6046.94	-721.26	327.73	3139.18	1668427.42	14363168.73	39°33'9.5186"N	80°54'2.2602"W	3156.24	84.040	8.18	5.71	-8.24	
7133.00	52.080	356.430	6109.24	-653.49	399.34	3138.78	1668427.03	14363240.31	39°33'10.2264"N	80°54'2.2642"W	3164.09	82.749	8.40	6.43	-7.18	
7174.00†	55.308	353.921	6133.52	-621.49	432.25	3135.99	1668424.23	14363273.21	39°33'10.5517"N	80°54'2.2994"W	3165.64	82.152	9.29	7.87	-6.12	Middlesex: 7174' MD
7228.00	59.630	350.900	6162.56	-576.90	477.36	3129.95	1668418.20	14363318.30	39°33'10.9976"N	80°54'2.3759"W	3166.14	81.328	9.29	8.00	-5.59	
7322.00	64.180	346.640	6206.83	-494.81	558.64	3113.75	1668402.00	14363399.54	39°33'11.8010"N	80°54'2.5816"W	3163.46	79.829	6.28	4.84	-4.53	
7355.00†	65.736	344.906	6220.80	-465.03	587.61	3106.40	1668394.65	14363428.51	39°33'12.0875"N	80°54'2.6750"W	3161.49	79.288	6.70	4.72	-5.25	Burkett: 7355' MD
7417.00	68.710	341.760	6244.80	-407.93	642.36	3089.99	1668378.25	14363483.23	39°33'12.6287"N	80°54'2.8837"W	3156.05	78.256	6.70	4.80	-5.07	
7460.00†	71.589	341.968	6259.40	-367.50	680.79	3077.40	1668365.67	14363521.65	39°33'13.0087"N	80°54'3.0439"W	3151.81	77.526	6.71	6.69	0.48	Marcellus POE: 7460' MD
7512.00	75.070	342.210	6274.32	-317.70	728.18	3062.09	1668350.36	14363569.02	39°33'13.4772"N	80°54'3.2388"W	3147.48	76.623	6.71	6.69	0.47	
7607.00	81.970	341.280	6293.21	-224.67	816.54	3032.93	1668321.22	14363657.34	39°33'14.3508"N	80°54'3.6097"W	3140.93	74.932	7.33	7.26	-0.98	
7701.00	90.860	341.420	6299.08	-130.95	905.34	3002.96	1668291.26	14363746.11	39°33'15.2288"N	80°54'3.9911"W	3136.47	73.223	9.46	9.46	0.15	
7796.00	91.200	341.070	6297.38	-35.97	995.28	2972.42	1668260.73	14363836.01	39°33'16.1180"N	80°54'4.3797"W	3134.63	71.488	0.51	0.36	-0.37	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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	90.860	339.300	6295.69	58.00	1083.70	2940.56	1668228.88	14363924.39	39°33'16.9922"N	80°54'4.7852"W	3133.90	69.769	1.92	-0.36	-1.88	
7985.00	90.620	338.700	6294.46	152.95	1172.38	2906.52	1668194.86	14364013.04	39°33'17.8690"N	80°54'5.2186"W	3134.06	68.033	0.68	-0.25	-0.63	
8080.00	90.490	338.660	6293.54	247.88	1260.87	2871.98	1668160.33	14364101.50	39°33'18.7440"N	80°54'5.6583"W	3136.57	66.297	0.14	-0.14	-0.04	
8175.00	90.430	339.700	6292.78	342.83	1349.67	2838.22	1668126.58	14364190.25	39°33'19.6220"N	80°54'6.0881"W	3142.78	64.567	1.10	-0.06	1.09	
8270.00	90.400	339.690	6292.09	437.81	1438.76	2805.25	1668093.63	14364279.31	39°33'20.5029"N	80°54'6.5077"W	3152.69	62.848	0.03	-0.03	-0.01	
8364.00	90.220	339.850	6291.58	531.79	1526.96	2772.75	1668061.14	14364367.48	39°33'21.3749"N	80°54'6.9215"W	3165.40	61.158	0.26	-0.19	0.17	
8459.00	90.460	340.170	6291.02	626.78	1616.23	2740.28	1668028.68	14364456.72	39°33'22.2576"N	80°54'7.3348"W	3181.40	59.468	0.42	0.25	0.34	
8554.00	90.400	339.750	6290.30	721.77	1705.48	2707.72	1667996.14	14364545.93	39°33'23.1400"N	80°54'7.7492"W	3200.07	57.795	0.45	-0.06	-0.44	
8649.00	90.370	339.450	6289.67	816.74	1794.52	2674.61	1667963.03	14364634.93	39°33'24.0203"N	80°54'8.1707"W	3220.84	56.140	0.32	-0.03	-0.32	
8744.00	90.650	339.650	6288.82	911.72	1883.53	2641.42	1667929.86	14364723.90	39°33'24.9004"N	80°54'8.5933"W	3244.19	54.508	0.36	0.29	0.21	
8838.00	90.520	339.670	6287.86	1005.69	1971.66	2608.75	1667897.20	14364812.00	39°33'25.7718"N	80°54'9.0092"W	3270.02	52.918	0.14	-0.14	0.02	
8933.00	90.890	339.950	6286.69	1100.67	2060.82	2575.96	1667864.43	14364901.12	39°33'26.6533"N	80°54'9.4265"W	3298.87	51.340	0.49	0.39	0.29	
9028.00	90.620	341.530	6285.44	1195.66	2150.49	2544.63	1667833.11	14364990.76	39°33'27.5399"N	80°54'9.8253"W	3331.63	49.799	1.69	-0.28	1.66	
9122.00	90.890	342.030	6284.20	1289.64	2239.77	2515.24	1667803.73	14365080.00	39°33'28.4226"N	80°54'10.1993"W	3367.94	48.316	0.60	0.29	0.53	
9217.00	90.490	340.930	6283.06	1384.62	2329.84	2485.07	1667773.57	14365170.04	39°33'29.3131"N	80°54'10.5833"W	3406.42	46.846	1.23	-0.42	-1.16	
9311.00	90.340	340.740	6282.38	1478.62	2418.63	2454.21	1667742.72	14365258.79	39°33'30.1909"N	80°54'10.9760"W	3445.71	45.418	0.26	-0.16	-0.20	
9406.00	90.430	340.470	6281.74	1573.62	2508.24	2422.66	1667711.19	14365348.36	39°33'31.0769"N	80°54'11.3776"W	3487.20	44.006	0.30	0.09	-0.28	
9501.00	90.950	341.840	6280.59	1668.60	2598.14	2391.98	1667680.52	14365438.22	39°33'31.9657"N	80°54'11.7681"W	3531.55	42.634	1.54	0.55	1.44	
9596.00	90.280	340.710	6279.57	1763.59	2688.10	2361.48	1667650.04	14365528.15	39°33'32.8551"N	80°54'12.1562"W	3578.06	41.299	1.38	-0.71	-1.19	
9691.00	90.280	340.320	6279.11	1858.59	2777.66	2329.80	1667618.36	14365617.67	39°33'33.7406"N	80°54'12.5595"W	3625.37	39.989	0.41	0.00	-0.41	
9785.00	90.980	342.970	6278.08	1952.57	2866.86	2300.20	1667588.78	14365706.84	39°33'34.6225"N	80°54'12.9362"W	3675.57	38.741	2.92	0.74	2.82	
9880.00	90.180	339.880	6277.11	2047.55	2956.90	2269.94	1667558.53	14365796.84	39°33'35.5127"N	80°54'13.3213"W	3727.72	37.513	3.36	-0.84	-3.25	
9975.00	90.860	341.780	6276.25	2142.54	3046.62	2238.75	1667527.35	14365886.53	39°33'36.3998"N	80°54'13.7183"W	3780.73	36.310	2.12	0.72	2.00	
10070.00	90.430	341.290	6275.18	2237.52	3136.72	2208.66	1667497.28	14365976.59	39°33'37.2906"N	80°54'14.1012"W	3836.30	35.151	0.69	-0.45	-0.52	
10164.00	90.770	341.380	6274.20	2331.51	3225.77	2178.58	1667467.21	14366065.61	39°33'38.1711"N	80°54'14.4841"W	3892.54	34.034	0.37	0.36	0.10	
10259.00	90.340	340.110	6273.28	2426.51	3315.45	2147.26	1667435.89	14366155.25	39°33'39.0577"N	80°54'14.8828"W	3950.06	32.929	1.41	-0.45	-1.34	
10354.00	90.710	341.310	6272.41	2521.50	3405.11	2115.87	1667404.53	14366244.88	39°33'39.9442"N	80°54'15.2823"W	4008.96	31.856	1.32	0.39	1.26	
10448.00	90.490	341.290	6271.42	2615.49	3494.15	2085.74	1667374.40	14366333.88	39°33'40.8244"N	80°54'15.6658"W	4069.32	30.834	0.24	-0.23	-0.02	
10543.00	90.220	341.230	6270.83	2710.49	3584.11	2055.22	1667343.89	14366423.80	39°33'41.7139"N	80°54'16.0543"W	4131.56	29.831	0.29	-0.28	-0.06	
10638.00	90.650	341.480	6270.11	2805.48	3674.12	2024.85	1667313.54	14366513.78	39°33'42.6038"N	80°54'16.4409"W	4195.14	28.860	0.52	0.45	0.26	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
10733.00	90.680	341.040	6269.01	2900.47	3764.08	1994.33	1667283.03	14366603.70	39°33'43.4932"N	80°54'16.8293"W	4259.77	27.916	0.46	0.03	-0.46	
10827.00	90.580	341.240	6267.98	2994.46	3853.03	1963.94	1667252.66	14366692.61	39°33'44.3726"N	80°54'17.2161"W	4324.68	27.009	0.24	-0.11	0.21	
10922.00	90.770	341.350	6266.86	3089.45	3943.00	1933.48	1667222.20	14366782.55	39°33'45.2622"N	80°54'17.6038"W	4391.54	26.121	0.23	0.20	0.12	
11017.00	90.460	340.820	6265.84	3184.45	4032.87	1902.69	1667191.42	14366872.38	39°33'46.1506"N	80°54'17.9958"W	4459.17	25.258	0.65	-0.33	-0.56	
11111.00	90.830	341.240	6264.78	3278.44	4121.75	1872.13	1667160.88	14366961.23	39°33'47.0295"N	80°54'18.3847"W	4527.00	24.428	0.60	0.39	0.45	
11206.00	90.770	340.940	6263.45	3373.43	4211.62	1841.35	1667130.11	14367051.06	39°33'47.9179"N	80°54'18.7766"W	4596.55	23.615	0.32	-0.06	-0.32	
11301.00	90.950	342.050	6262.03	3468.41	4301.70	1811.20	1667099.97	14367141.10	39°33'48.8085"N	80°54'19.1603"W	4667.44	22.833	1.18	0.19	1.17	
11396.00	90.370	341.340	6260.93	3563.39	4391.88	1781.36	1667070.15	14367231.25	39°33'49.7001"N	80°54'19.5400"W	4739.40	22.078	0.96	-0.61	-0.75	
11490.00	90.710	340.350	6260.05	3657.39	4480.67	1750.52	1667039.32	14367320.00	39°33'50.5780"N	80°54'19.9326"W	4810.48	21.340	1.11	0.36	-1.05	
11680.00	90.430	342.890	6258.16	3847.35	4660.96	1690.62	1666979.44	14367500.21	39°33'52.3604"N	80°54'20.6951"W	4958.09	19.937	1.34	-0.15	1.34	
11774.00	90.740	340.980	6257.20	3941.32	4750.31	1661.47	1666950.31	14367589.54	39°33'53.2438"N	80°54'21.0661"W	5032.49	19.278	2.06	0.33	-2.03	
11869.00	90.620	340.860	6256.07	4036.31	4840.09	1630.42	1666919.27	14367679.27	39°33'54.1314"N	80°54'21.4613"W	5107.32	18.617	0.18	-0.13	-0.13	
11964.00	90.650	340.710	6255.02	4131.31	4929.79	1599.16	1666888.02	14367768.94	39°33'55.0183"N	80°54'21.8593"W	5182.68	17.972	0.16	0.03	-0.16	
12059.00	90.520	340.620	6254.05	4226.30	5019.43	1567.71	1666856.58	14367858.54	39°33'55.9045"N	80°54'22.2598"W	5258.55	17.345	0.17	-0.14	-0.09	
12153.00	90.890	340.220	6252.89	4320.29	5107.98	1536.21	1666825.09	14367947.06	39°33'56.7801"N	80°54'22.6608"W	5333.99	16.738	0.58	0.39	-0.43	
12248.00	90.890	340.420	6251.41	4415.28	5197.42	1504.22	1666793.11	14368036.47	39°33'57.6644"N	80°54'23.0681"W	5410.72	16.141	0.21	0.00	0.21	
12343.00	90.950	340.920	6249.89	4510.26	5287.06	1472.78	1666761.69	14368126.06	39°33'58.5506"N	80°54'23.4683"W	5488.35	15.566	0.53	0.06	0.53	
12437.00	91.140	340.390	6248.17	4604.25	5375.73	1441.64	1666730.57	14368214.71	39°33'59.4273"N	80°54'23.8647"W	5565.69	15.012	0.60	0.20	-0.56	
12532.00	90.460	340.480	6246.85	4699.23	5465.24	1409.83	1666698.77	14368304.18	39°34'0.3122"N	80°54'24.2697"W	5644.15	14.465	0.72	-0.72	0.09	
12626.00	91.790	340.680	6245.00	4793.21	5553.87	1378.59	1666667.53	14368392.77	39°34'1.1885"N	80°54'24.6675"W	5722.41	13.940	1.43	1.41	0.21	
12721.00	91.660	340.500	6242.14	4888.17	5643.43	1347.03	1666635.99	14368482.30	39°34'2.0740"N	80°54'25.0693"W	5801.97	13.425	0.23	-0.14	-0.19	
12816.00	92.000	340.350	6239.11	4983.12	5732.90	1315.22	1666604.19	14368571.73	39°34'2.9585"N	80°54'25.4743"W	5881.83	12.921	0.39	0.36	-0.16	
12911.00	91.570	340.350	6236.15	5078.07	5822.32	1283.29	1666572.27	14368661.11	39°34'3.8426"N	80°54'25.8809"W	5962.07	12.430	0.45	-0.45	0.00	
13005.00	90.340	339.400	6234.58	5172.04	5910.57	1250.95	1666539.95	14368749.32	39°34'4.7151"N	80°54'26.2926"W	6041.50	11.950	1.65	-1.31	-1.01	
13100.00	91.540	341.060	6233.02	5267.02	5999.95	1218.82	1666507.83	14368838.67	39°34'5.5988"N	80°54'26.7017"W	6122.49	11.483	2.16	1.26	1.75	
13195.00	91.450	341.310	6230.55	5361.98	6089.84	1188.19	1666477.22	14368928.53	39°34'6.4876"N	80°54'27.0916"W	6204.67	11.040	0.28	-0.09	0.26	
13289.00	91.600	341.470	6228.04	5455.94	6178.90	1158.21	1666447.24	14369017.55	39°34'7.3680"N	80°54'27.4733"W	6286.51	10.617	0.23	0.16	0.17	
13384.00	91.750	341.660	6225.27	5550.90	6268.98	1128.18	1666417.23	14369107.60	39°34'8.2587"N	80°54'27.8556"W	6369.69	10.202	0.25	0.16	0.20	
13479.00	91.480	341.420	6222.59	5645.85	6359.06	1098.11	1666387.17	14369197.64	39°34'9.1492"N	80°54'28.2384"W	6453.17	9.797	0.38	-0.28	-0.25	
13573.00	91.600	340.960	6220.06	5739.81	6448.01	1067.81	1666356.88	14369286.55	39°34'10.0286"N	80°54'28.6241"W	6535.82	9.403	0.51	0.13	-0.49	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
13668.00	91.660	341.450	6217.36	5834.77	6537.90	1037.22	1666326.30	14369376.41	39°34'10.9174"N	80°54'29.0136"W	6619.67	9.015	0.52	0.06	0.52	
13763.00	90.090	340.840	6215.91	5929.76	6627.79	1006.52	1666295.62	14369466.26	39°34'11.8061"N	80°54'29.4044"W	6703.78	8.635	1.77	-1.65	-0.64	
13858.00	90.150	340.550	6215.71	6024.76	6717.45	975.11	1666264.22	14369555.88	39°34'12.6925"N	80°54'29.8043"W	6787.86	8.259	0.31	0.06	-0.31	
13953.00	90.800	342.120	6214.92	6119.75	6807.45	944.71	1666233.83	14369645.85	39°34'13.5823"N	80°54'30.1914"W	6872.69	7.901	1.79	0.68	1.65	
14047.00	90.150	340.550	6214.15	6213.74	6896.50	914.63	1666203.76	14369734.86	39°34'14.4627"N	80°54'30.5743"W	6956.88	7.555	1.81	-0.69	-1.67	
14142.00	90.980	342.200	6213.21	6308.72	6986.51	884.29	1666173.44	14369824.84	39°34'15.3527"N	80°54'30.9606"W	7042.25	7.214	1.94	0.87	1.74	
14237.00	90.460	341.440	6212.01	6403.70	7076.76	854.66	1666143.81	14369915.05	39°34'16.2449"N	80°54'31.3379"W	7128.18	6.886	0.97	-0.55	-0.80	
14332.00	90.150	341.090	6211.51	6498.70	7166.73	824.14	1666113.31	14370004.98	39°34'17.1344"N	80°54'31.7263"W	7213.96	6.560	0.49	-0.33	-0.37	
14427.00	90.770	341.530	6210.75	6593.69	7256.71	793.70	1666082.88	14370094.93	39°34'18.0240"N	80°54'32.1139"W	7299.99	6.242	0.80	0.65	0.46	
14616.00	90.680	340.590	6208.35	6782.67	7435.47	732.36	1666021.57	14370273.61	39°34'19.7913"N	80°54'32.8949"W	7471.45	5.625	0.50	-0.05	-0.50	
14710.00	90.430	340.880	6207.44	6876.67	7524.20	701.35	1665990.57	14370362.31	39°34'20.6686"N	80°54'33.2898"W	7556.81	5.325	0.41	-0.27	0.31	
14805.00	90.460	340.770	6206.71	6971.66	7613.92	670.15	1665959.38	14370452.00	39°34'21.5557"N	80°54'33.6871"W	7643.36	5.030	0.12	0.03	-0.12	
14900.00	90.090	340.080	6206.25	7066.66	7703.43	638.32	1665927.56	14370541.47	39°34'22.4406"N	80°54'34.0924"W	7729.83	4.737	0.82	-0.39	-0.73	
14994.00	90.520	340.720	6205.75	7160.65	7791.98	606.79	1665896.04	14370629.99	39°34'23.3161"N	80°54'34.4939"W	7815.57	4.453	0.82	0.46	0.68	
15089.00	90.490	340.400	6204.91	7255.65	7881.56	575.17	1665864.44	14370719.53	39°34'24.2017"N	80°54'34.8965"W	7902.52	4.174	0.34	-0.03	-0.34	
15183.00	90.340	340.140	6204.23	7349.64	7970.04	543.44	1665832.72	14370807.97	39°34'25.0765"N	80°54'35.3006"W	7988.55	3.901	0.32	-0.16	-0.28	
15278.00	90.220	340.280	6203.77	7444.63	8059.43	511.27	1665800.57	14370897.33	39°34'25.9603"N	80°54'35.7102"W	8075.63	3.630	0.19	-0.13	0.15	
15372.00	90.400	340.240	6203.26	7538.63	8147.91	479.53	1665768.83	14370985.77	39°34'26.8350"N	80°54'36.1145"W	8162.00	3.368	0.20	0.19	-0.04	
15467.00	89.780	340.570	6203.11	7633.63	8237.40	447.67	1665736.99	14371075.23	39°34'27.7198"N	80°54'36.5202"W	8249.56	3.111	0.74	-0.65	0.35	
15562.00	89.510	339.090	6203.70	7728.61	8326.57	414.91	1665704.24	14371164.36	39°34'28.6015"N	80°54'36.9374"W	8336.90	2.853	1.58	-0.28	-1.56	
15656.00	89.750	340.350	6204.31	7822.58	8414.74	382.33	1665671.68	14371252.50	39°34'29.4732"N	80°54'37.3523"W	8423.42	2.601	1.36	0.26	1.34	
15751.00	89.850	340.360	6204.64	7917.58	8504.21	350.39	1665639.75	14371341.93	39°34'30.3577"N	80°54'37.7590"W	8511.43	2.359	0.11	0.11	0.01	
15845.00	89.630	340.380	6205.06	8011.58	8592.75	318.81	1665608.19	14371430.43	39°34'31.2331"N	80°54'38.1612"W	8598.66	2.125	0.24	-0.23	0.02	
15940.00	89.720	340.830	6205.60	8106.57	8682.36	287.27	1665576.65	14371520.00	39°34'32.1190"N	80°54'38.5629"W	8687.11	1.895	0.48	0.09	0.47	
16035.00	89.480	340.900	6206.27	8201.57	8772.10	256.13	1665545.52	14371609.71	39°34'33.0063"N	80°54'38.9594"W	8775.84	1.672	0.26	-0.25	0.07	
16129.00	89.080	340.710	6207.45	8295.56	8860.87	225.22	1665514.63	14371698.45	39°34'33.8839"N	80°54'39.3530"W	8863.73	1.456	0.47	-0.43	-0.20	
16224.00	89.720	340.780	6208.44	8390.56	8950.55	193.90	1665483.32	14371788.09	39°34'34.7705"N	80°54'39.7519"W	8952.65	1.241	0.68	0.67	0.07	
16318.00	88.800	339.940	6209.66	8484.55	9039.07	162.31	1665451.74	14371876.58	39°34'35.6457"N	80°54'40.1542"W	9040.53	1.029	1.33	-0.98	-0.89	
16413.00	89.170	340.250	6211.34	8579.52	9128.38	129.97	1665419.42	14371965.85	39°34'36.5287"N	80°54'40.5661"W	9129.31	0.816	0.51	0.39	0.33	
16508.00	89.050	340.200	6212.81	8674.51	9217.77	97.83	1665387.29	14372055.20	39°34'37.4125"N	80°54'40.9754"W	9218.29	0.608	0.14	-0.13	-0.05	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
16602.00	88.650	340.450	6214.70	8768.48	9306.26	66.19	1665355.66	14372143.66	39°34'38.2874"N	80°54'41.3784"W	9306.50	0.407	0.50	-0.43	0.27	
16697.00	88.950	340.580	6216.69	8863.46	9395.80	34.51	1665323.99	14372233.16	39°34'39.1726"N	80°54'41.7818"W	9395.87	0.210	0.34	0.32	0.14	
16791.00	89.020	340.590	6218.36	8957.45	9484.45	3.27	1665292.77	14372321.77	39°34'40.0490"N	80°54'42.1797"W	9484.45	0.020	0.08	0.07	0.01	
16886.00	89.110	340.150	6219.91	9052.43	9573.91	-28.64	1665260.87	14372411.20	39°34'40.9335"N	80°54'42.5861"W	9573.95	359.829	0.47	0.09	-0.46	
16980.00	88.980	340.230	6221.47	9146.41	9662.34	-60.50	1665229.03	14372499.59	39°34'41.8078"N	80°54'42.9918"W	9662.53	359.641	0.16	-0.14	0.09	
17075.00	88.860	341.250	6223.26	9241.39	9752.00	-91.83	1665197.71	14372589.22	39°34'42.6942"N	80°54'43.3908"W	9752.43	359.461	1.08	-0.13	1.07	
17170.00	88.950	341.060	6225.08	9336.37	9841.89	-122.51	1665167.04	14372679.07	39°34'43.5830"N	80°54'43.7815"W	9842.66	359.287	0.22	0.09	-0.20	
17264.00	88.950	341.070	6226.80	9430.36	9930.79	-153.00	1665136.56	14372767.94	39°34'44.4619"N	80°54'44.1699"W	9931.97	359.117	0.01	0.00	0.01	
17359.00	89.290	341.570	6228.26	9525.34	10020.78	-183.43	1665106.15	14372857.89	39°34'45.3515"N	80°54'44.5573"W	10022.46	358.951	0.64	0.36	0.53	
17454.00	89.350	342.110	6229.39	9620.32	10111.04	-213.03	1665076.55	14372948.11	39°34'46.2438"N	80°54'44.9343"W	10113.28	358.793	0.57	0.06	0.57	
17548.00	88.980	341.410	6230.76	9714.30	10200.30	-242.45	1665047.14	14373037.34	39°34'47.1264"N	80°54'45.3089"W	10203.19	358.638	0.84	-0.39	-0.74	
17643.00	89.570	341.460	6231.96	9809.28	10290.35	-272.70	1665016.91	14373127.35	39°34'48.0166"N	80°54'45.6940"W	10293.97	358.482	0.62	0.62	0.05	
17738.00	89.480	341.400	6232.75	9904.27	10380.40	-302.95	1664986.67	14373217.37	39°34'48.9069"N	80°54'46.0793"W	10384.82	358.328	0.11	-0.09	-0.06	
17833.00	89.540	341.690	6233.56	9999.26	10470.52	-333.02	1664956.61	14373307.44	39°34'49.7978"N	80°54'46.4622"W	10475.81	358.178	0.31	0.06	0.31	
17927.00	89.420	341.350	6234.41	10093.25	10559.66	-362.82	1664926.83	14373396.56	39°34'50.6791"N	80°54'46.8417"W	10565.90	358.032	0.38	-0.13	-0.36	
18021.00	89.510	341.540	6235.29	10187.24	10648.77	-392.73	1664896.93	14373485.63	39°34'51.5601"N	80°54'47.2226"W	10656.01	357.888	0.22	0.10	0.20	
18116.00	89.350	341.400	6236.24	10282.23	10738.84	-422.92	1664866.75	14373575.67	39°34'52.4506"N	80°54'47.6070"W	10747.17	357.745	0.22	-0.17	-0.15	
18211.00	89.420	341.410	6237.25	10377.22	10828.88	-453.21	1664836.47	14373665.66	39°34'53.3407"N	80°54'47.9928"W	10838.36	357.603	0.07	0.07	0.01	
18306.00	89.570	341.300	6238.09	10472.21	10918.89	-483.58	1664806.12	14373755.64	39°34'54.2306"N	80°54'48.3796"W	10929.59	357.464	0.20	0.16	-0.12	
18400.00	89.350	341.760	6238.98	10566.20	11008.04	-513.36	1664776.35	14373844.76	39°34'55.1120"N	80°54'48.7588"W	11020.01	357.330	0.54	-0.23	0.49	
18494.00	89.350	341.400	6240.04	10660.19	11097.22	-543.06	1664746.66	14373933.90	39°34'55.9937"N	80°54'49.1370"W	11110.50	357.198	0.38	0.00	-0.38	
18589.00	89.110	340.260	6241.32	10755.18	11186.94	-574.25	1664715.48	14374023.59	39°34'56.8807"N	80°54'49.5343"W	11201.67	357.061	1.23	-0.25	-1.20	
18684.00	89.540	340.490	6242.44	10850.17	11276.42	-606.15	1664683.59	14374113.02	39°34'57.7653"N	80°54'49.9407"W	11292.70	356.923	0.51	0.45	0.24	
18778.00	89.910	340.550	6242.89	10944.17	11365.04	-637.50	1664652.26	14374201.61	39°34'58.6414"N	80°54'50.3400"W	11382.90	356.789	0.40	0.39	0.06	
18968.00	89.820	340.300	6243.34	11134.16	11544.06	-701.16	1664588.62	14374380.55	39°35'0.4113"N	80°54'51.1508"W	11565.33	356.524	0.14	-0.05	-0.13	
19062.00	89.820	340.350	6243.63	11228.16	11632.57	-732.81	1664556.99	14374469.03	39°35'1.2864"N	80°54'51.5539"W	11655.63	356.395	0.05	0.00	0.05	
19157.00	89.540	340.110	6244.17	11323.15	11721.97	-764.94	1664524.87	14374558.39	39°35'2.1702"N	80°54'51.9633"W	11746.90	356.266	0.39	-0.29	-0.25	
19252.00	89.690	340.450	6244.80	11418.14	11811.39	-796.99	1664492.83	14374647.78	39°35'3.0544"N	80°54'52.3716"W	11838.25	356.140	0.39	0.16	0.36	
19346.00	89.880	340.540	6245.16	11512.14	11900.00	-828.38	1664461.45	14374736.35	39°35'3.9304"N	80°54'52.7714"W	11928.80	356.018	0.22	0.20	0.10	
19441.00	89.820	341.320	6245.40	11607.14	11989.78	-859.42	1664430.43	14374826.10	39°35'4.8180"N	80°54'53.1667"W	12020.54	355.900	0.82	-0.06	0.82	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Well: Tangerine Unit 2H ST01
Field	Tyler		API: 47-095-02867-0000
Facility	Dry Run Pad		Wellbore: Tangerine Unit 2H ST01 AWB
Slot	Slot F		Sidetrack from: Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
19535.00	89.910	341.570	6245.63	11701.13	12078.90	-889.33	1664400.53	14374915.18	39°35'5.6990"N	80°54'53.5477"W	12111.59	355.789	0.28	0.10	0.27	
19630.00	89.690	341.370	6245.96	11796.13	12168.97	-919.52	1664370.35	14375005.22	39°35'6.5895"N	80°54'53.9322"W	12203.66	355.679	0.31	-0.23	-0.21	
19725.00	89.380	341.540	6246.73	11891.12	12259.03	-949.73	1664340.15	14375095.25	39°35'7.4799"N	80°54'54.3170"W	12295.77	355.570	0.37	-0.33	0.18	
19819.00	89.320	341.510	6247.80	11985.11	12348.18	-979.52	1664310.37	14375184.36	39°35'8.3613"N	80°54'54.6964"W	12386.97	355.465	0.07	-0.06	-0.03	
19914.00	89.480	341.310	6248.79	12080.10	12438.22	-1009.80	1664280.10	14375274.36	39°35'9.2514"N	80°54'55.0821"W	12479.15	355.359	0.27	0.17	-0.21	
20008.00	89.350	341.600	6249.75	12174.08	12527.34	-1039.70	1664250.22	14375363.44	39°35'10.1325"N	80°54'55.4628"W	12570.41	355.256	0.34	-0.14	0.31	
20103.00	89.450	341.440	6250.74	12269.07	12617.43	-1069.81	1664220.12	14375453.50	39°35'11.0232"N	80°54'55.8463"W	12662.71	355.154	0.20	0.11	-0.17	
20198.00	89.420	341.140	6251.68	12364.06	12707.41	-1100.28	1664189.66	14375543.44	39°35'11.9127"N	80°54'56.2345"W	12754.95	355.051	0.32	-0.03	-0.32	
20387.00	89.290	340.480	6253.81	12553.05	12885.89	-1162.40	1664127.57	14375721.85	39°35'13.6773"N	80°54'57.0258"W	12938.22	354.845	0.36	-0.07	-0.35	
20482.00	89.170	340.240	6255.09	12648.04	12975.36	-1194.33	1664095.65	14375811.28	39°35'14.5618"N	80°54'57.4325"W	13030.21	354.741	0.28	-0.13	-0.25	
20577.00	89.230	340.120	6256.41	12743.02	13064.72	-1226.54	1664063.46	14375900.61	39°35'15.4453"N	80°54'57.8428"W	13122.17	354.637	0.14	0.06	-0.13	
20671.00	89.660	341.300	6257.32	12837.02	13153.44	-1257.59	1664032.42	14375989.29	39°35'16.3224"N	80°54'58.2384"W	13213.42	354.539	1.34	0.46	1.26	
20766.00	89.230	340.440	6258.24	12932.01	13243.19	-1288.72	1664001.30	14376079.00	39°35'17.2097"N	80°54'58.6349"W	13305.74	354.442	1.01	-0.45	-0.91	
20861.00	89.380	340.300	6259.40	13027.00	13332.66	-1320.63	1663969.40	14376168.44	39°35'18.0942"N	80°54'59.0415"W	13397.91	354.343	0.22	0.16	-0.15	
20956.00	89.510	339.250	6260.32	13121.98	13421.80	-1353.47	1663936.57	14376257.54	39°35'18.9755"N	80°54'59.4599"W	13489.87	354.242	1.11	0.14	-1.11	
21050.00	89.380	340.290	6261.23	13215.96	13509.99	-1385.97	1663904.08	14376345.70	39°35'19.8475"N	80°54'59.8740"W	13580.90	354.143	1.11	-0.14	1.11	
21145.00	89.510	340.550	6262.15	13310.95	13599.50	-1417.81	1663872.26	14376435.17	39°35'20.7323"N	80°55'0.2796"W	13673.20	354.048	0.31	0.14	0.27	
21240.00	89.380	340.450	6263.07	13405.95	13689.04	-1449.52	1663840.56	14376524.68	39°35'21.6176"N	80°55'0.6836"W	13765.57	353.956	0.17	-0.14	-0.11	
21334.00	89.380	340.510	6264.08	13499.94	13777.63	-1480.93	1663809.17	14376613.24	39°35'22.4935"N	80°55'1.0837"W	13857.00	353.865	0.06	0.00	0.06	
21429.00	89.230	340.300	6265.24	13594.93	13867.13	-1512.78	1663777.32	14376702.69	39°35'23.3782"N	80°55'1.4896"W	13949.40	353.774	0.27	-0.16	-0.22	
21523.00	89.230	340.510	6266.50	13688.92	13955.67	-1544.31	1663745.81	14376791.20	39°35'24.2537"N	80°55'1.8911"W	14040.86	353.685	0.22	0.00	0.22	
21618.00	89.020	340.080	6267.95	13783.90	14045.10	-1576.33	1663713.80	14376880.59	39°35'25.1378"N	80°55'2.2992"W	14133.28	353.596	0.50	-0.22	-0.45	
21712.00	89.260	340.040	6269.36	13877.88	14133.46	-1608.39	1663681.76	14376968.91	39°35'26.0113"N	80°55'2.7076"W	14224.68	353.508	0.26	0.26	-0.04	
21807.00	89.350	340.370	6270.51	13972.87	14222.84	-1640.56	1663649.60	14377058.26	39°35'26.8949"N	80°55'3.1175"W	14317.14	353.420	0.36	0.09	0.35	
21902.00	89.450	340.600	6271.51	14067.86	14312.37	-1672.29	1663617.88	14377147.76	39°35'27.7801"N	80°55'3.5218"W	14409.74	353.336	0.26	0.11	0.24	
21996.00	89.630	340.290	6272.26	14161.86	14400.95	-1703.75	1663586.43	14377236.30	39°35'28.6558"N	80°55'3.9226"W	14501.38	353.253	0.38	0.19	-0.33	
22091.00	89.630	340.170	6272.88	14256.85	14490.35	-1735.88	1663554.31	14377325.66	39°35'29.5397"N	80°55'4.3320"W	14593.95	353.169	0.13	0.00	-0.13	
22186.00	89.570	339.970	6273.54	14351.84	14579.65	-1768.27	1663521.94	14377414.93	39°35'30.4226"N	80°55'4.7446"W	14686.49	353.085	0.22	-0.06	-0.21	
22280.00	89.660	340.190	6274.17	14445.83	14668.03	-1800.29	1663489.93	14377503.27	39°35'31.2963"N	80°55'5.1526"W	14778.10	353.003	0.25	0.10	0.23	
22375.00	89.690	340.430	6274.71	14540.82	14757.47	-1832.30	1663457.94	14377592.68	39°35'32.1806"N	80°55'5.5605"W	14870.79	352.922	0.25	0.03	0.25	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
22470.00	89.690	340.260	6275.22	14635.82	14846.94	-1864.25	1663425.99	14377682.11	39°35'33.0651"N	80°55'5.9676"W	14963.52	352.843	0.18	0.00	-0.18	
22659.00	89.630	340.270	6276.35	14824.81	15024.83	-1928.07	1663362.20	14377859.93	39°35'34.8238"N	80°55'6.7807"W	15148.04	352.687	0.03	-0.03	0.01	
22754.00	89.690	339.760	6276.91	14919.79	15114.11	-1960.54	1663329.75	14377949.17	39°35'35.7064"N	80°55'7.1944"W	15240.74	352.609	0.54	0.06	-0.54	
22848.00	89.780	340.220	6277.34	15013.78	15202.43	-1992.70	1663297.59	14378037.46	39°35'36.5797"N	80°55'7.6043"W	15332.48	352.532	0.50	0.10	0.49	
22942.00	89.690	340.360	6277.78	15107.78	15290.93	-2024.41	1663265.91	14378125.92	39°35'37.4545"N	80°55'8.0082"W	15424.35	352.458	0.18	-0.10	0.15	
23036.00	89.630	340.420	6278.34	15201.77	15379.47	-2055.95	1663234.37	14378214.43	39°35'38.3299"N	80°55'8.4102"W	15516.28	352.386	0.09	-0.06	0.06	
23130.00	89.540	340.130	6279.02	15295.77	15467.95	-2087.68	1663202.66	14378302.88	39°35'39.2047"N	80°55'8.8144"W	15608.20	352.313	0.32	-0.10	-0.31	
23224.00	89.660	340.350	6279.67	15389.76	15556.42	-2119.46	1663170.89	14378391.30	39°35'40.0793"N	80°55'9.2193"W	15700.13	352.242	0.27	0.13	0.23	
23319.00	89.720	340.270	6280.19	15484.75	15645.86	-2151.47	1663138.90	14378480.71	39°35'40.9635"N	80°55'9.6272"W	15793.09	352.170	0.11	0.06	-0.08	
23413.00	89.630	340.230	6280.72	15578.75	15734.33	-2183.23	1663107.15	14378569.15	39°35'41.8382"N	80°55'10.0319"W	15885.08	352.100	0.10	-0.10	-0.04	
23508.00	89.660	340.420	6281.31	15673.74	15823.78	-2215.21	1663075.18	14378658.56	39°35'42.7225"N	80°55'10.4395"W	15978.09	352.031	0.20	0.03	0.20	
23602.00	89.720	340.190	6281.82	15767.74	15912.28	-2246.89	1663043.51	14378747.03	39°35'43.5975"N	80°55'10.8431"W	16070.13	351.963	0.25	0.06	-0.24	
23696.00	89.660	340.280	6282.33	15861.73	16000.74	-2278.68	1663011.74	14378835.45	39°35'44.4720"N	80°55'11.2482"W	16162.18	351.895	0.12	-0.06	0.10	
23790.00	89.690	340.340	6282.86	15955.72	16089.24	-2310.35	1662980.08	14378923.92	39°35'45.3470"N	80°55'11.6518"W	16254.28	351.828	0.07	0.03	0.06	
23884.00	89.660	340.250	6283.39	16049.72	16177.74	-2342.04	1662948.40	14379012.38	39°35'46.2219"N	80°55'12.0556"W	16346.39	351.763	0.10	-0.03	-0.10	
23979.00	89.690	340.380	6283.93	16144.71	16267.18	-2374.04	1662916.41	14379101.79	39°35'47.1062"N	80°55'12.4634"W	16439.51	351.697	0.14	0.03	0.14	
24074.00	89.600	340.100	6284.52	16239.71	16356.59	-2406.16	1662884.30	14379191.16	39°35'47.9901"N	80°55'12.8726"W	16532.62	351.631	0.31	-0.09	-0.29	
24168.00	90.060	340.270	6284.80	16333.70	16445.02	-2438.03	1662852.45	14379279.55	39°35'48.8644"N	80°55'13.2787"W	16624.76	351.567	0.52	0.49	0.18	
24263.00	90.030	340.360	6284.72	16428.70	16534.47	-2470.03	1662820.46	14379368.97	39°35'49.7487"N	80°55'13.6865"W	16717.95	351.504	0.10	-0.03	0.09	
24358.00	90.150	341.200	6284.58	16523.70	16624.17	-2501.30	1662789.20	14379458.63	39°35'50.6355"N	80°55'14.0850"W	16811.30	351.443	0.89	0.13	0.88	
24452.00	90.060	341.190	6284.40	16617.69	16713.16	-2531.60	1662758.92	14379547.58	39°35'51.5152"N	80°55'14.4710"W	16903.80	351.387	0.10	-0.10	-0.01	
24546.00	90.030	341.280	6284.33	16711.69	16802.16	-2561.84	1662728.69	14379636.55	39°35'52.3951"N	80°55'14.8563"W	16996.34	351.331	0.10	-0.03	0.10	
24641.00	90.060	341.220	6284.25	16806.69	16892.12	-2592.38	1662698.16	14379726.47	39°35'53.2844"N	80°55'15.2454"W	17089.88	351.275	0.07	0.03	-0.06	
24735.00	90.000	341.260	6284.21	16900.69	16981.12	-2622.61	1662667.95	14379815.44	39°35'54.1644"N	80°55'15.6306"W	17182.45	351.220	0.08	-0.06	0.04	
24829.00	90.460	341.330	6283.83	16994.68	17070.16	-2652.75	1662637.81	14379904.44	39°35'55.0446"N	80°55'16.0147"W	17275.05	351.167	0.49	0.49	0.07	
24924.00	90.400	341.220	6283.12	17089.68	17160.13	-2683.25	1662607.33	14379994.37	39°35'55.9340"N	80°55'16.4033"W	17368.64	351.113	0.13	-0.06	-0.12	
25018.00	90.400	341.200	6282.46	17183.67	17249.12	-2713.53	1662577.06	14380083.32	39°35'56.8138"N	80°55'16.7891"W	17461.25	351.060	0.02	0.00	-0.02	
25113.00	90.430	341.220	6281.77	17278.67	17339.05	-2744.12	1662546.48	14380173.22	39°35'57.7029"N	80°55'17.1790"W	17554.85	351.007	0.04	0.03	0.02	
25207.00	90.430	341.320	6281.07	17372.66	17428.07	-2774.31	1662516.31	14380262.21	39°35'58.5829"N	80°55'17.5636"W	17647.50	350.955	0.11	0.00	0.11	
25301.00	90.490	341.200	6280.31	17466.66	17517.08	-2804.51	1662486.12	14380351.18	39°35'59.4629"N	80°55'17.9484"W	17740.17	350.904	0.14	0.06	-0.13	



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

WELLPATH DATA (280 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
25396.00	90.430	341.260	6279.55	17561.65	17607.03	-2835.07	1662455.56	14380441.09	39°36'0.3521"N	80°55'18.3379"W	17833.82	350.853	0.09	-0.06	0.06	
25490.00	90.430	341.270	6278.84	17655.65	17696.05	-2865.26	1662425.39	14380530.07	39°36'1.2322"N	80°55'18.7226"W	17926.51	350.803	0.01	0.00	0.01	
25585.00	90.430	341.220	6278.13	17750.64	17786.00	-2895.81	1662394.85	14380619.99	39°36'2.1214"N	80°55'19.1118"W	18020.20	350.753	0.05	0.00	-0.05	
25679.00	90.370	341.120	6277.47	17844.64	17874.97	-2926.15	1662364.53	14380708.92	39°36'3.0010"N	80°55'19.4984"W	18112.89	350.703	0.12	-0.06	-0.11	
25773.00	90.120	340.920	6277.07	17938.63	17963.85	-2956.72	1662333.97	14380797.78	39°36'3.8797"N	80°55'19.8879"W	18205.56	350.653	0.34	-0.27	-0.21	
25867.00	90.280	341.250	6276.74	18032.63	18052.78	-2987.19	1662303.51	14380886.66	39°36'4.7588"N	80°55'20.2762"W	18298.25	350.604	0.39	0.17	0.35	
25961.00	90.180	341.210	6276.37	18126.63	18141.78	-3017.44	1662273.27	14380975.63	39°36'5.6387"N	80°55'20.6617"W	18391.00	350.557	0.11	-0.11	-0.04	
26055.00	90.060	341.220	6276.17	18220.63	18230.77	-3047.71	1662243.02	14381064.59	39°36'6.5185"N	80°55'21.0474"W	18483.76	350.509	0.13	-0.13	0.01	
26093.00	90.060	341.310	6276.13	18258.63	18266.76	-3059.91	1662230.82	14381100.56	39°36'6.8743"N	80°55'21.2029"W	18521.27	350.491	0.24	0.00	0.24	
26118.00‡	90.060	341.310	6276.10	18283.63	18290.44	-3067.92	1662222.81	14381124.23	39°36'7.1084"N	80°55'21.3050"W	18545.95	350.478	0.00	0.00	0.00	Projected MD at TD: 26118'

HOLE & CASING SECTIONS - Ref Wellbore: Tangerine Unit 2H ST01 AWB Ref Wellpath: Tangerine Unit 2H ST01 AWP Proj: 26118'

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	-0.47	0.25
17.5in Open Hole	125.50	615.00	489.50	125.50	614.99	-0.47	0.25	-2.41	1.10
13.375in Casing Surface	25.50	595.00	569.50	25.50	594.99	0.00	0.00	-2.40	0.88
12.25in Open Hole	615.00	3580.00	2965.00	614.99	3176.62	-2.41	1.10	8.19	1378.09
9.625in Casing Intermediate	25.50	3550.00	3524.50	25.50	3152.02	0.00	0.00	7.40	1360.94
8.75in Open Hole	3580.00	6116.00	2536.00	3176.62	5272.96	8.19	1378.09	75.29	2800.17
8.5in Open Hole	6116.00	26118.00	20002.00	5272.96	6276.10	75.29	2800.17	18290.44	-3067.92
5.5in Casing Production	25.50	26098.00	26072.50	25.50	6276.12	0.00	0.00	18271.49	-3061.51



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Tangerine Unit 2H BHL Rev-5	6103.90	18302.63	-3055.80	1662234.93	14381136.41	39°36'7.2287"N	80°55'21.1499"W	point
Tangerine Unit 2H BHL Rev-3	6203.43	18319.04	-3008.57	1662282.14	14381152.82	39°36'7.3906"N	80°55'20.5464"W	point
Tangerine Unit 2H POE Rev-5	6254.00	647.66	3081.07	1668369.33	14363488.53	39°33'12.6812"N	80°54'2.9976"W	point
Tangerine Unit 2H POE Rev-3	6257.00	664.08	3128.30	1668416.54	14363504.94	39°33'12.8430"N	80°54'2.3944"W	point
Tangerine Unit 2H LP Rev-5	6297.00	885.72	2998.32	1668286.61	14363726.50	39°33'15.0349"N	80°54'4.0507"W	point
Tangerine Unit 2H 50' L/Variable Rt Window	6650.00	9475.14	12.64	1665302.13	14372312.47	39°34'39.9570"N	80°54'42.0602"W	rectangle
2D Rectangle 18691.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Tangerine Unit 2H ST01 AWB Ref Wellpath: Tangerine Unit 2H ST01 AWP Proj: 26118'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	554.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-554')	Tangerine Unit 2H AWB	6/15/2023
554.00	3509.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (554')(676'-3509')	Tangerine Unit 2H AWB	6/15/2023
3509.00	6116.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3509')(3561'-7917')	Tangerine Unit 2H AWB	8/16/2023
6116.00	26118.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH AT Curve <8-1/2"> (6116')(6186'-26093')	Tangerine Unit 2H ST01 AWB	9/3/2023



Actual Wellpath Report

Tangerine Unit 2H ST01 AWP Proj: 26118'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Tangerine Unit 2H ST01
Field	Tyler	API	47-095-02867-0000
Facility	Dry Run Pad	Wellbore	Tangerine Unit 2H ST01 AWB
Slot	Slot F	Sidetrack from	Tangerine Unit 2H AWP Proj: 26162' at 6116.00 MD

COMMENTS
<p>Wellpath general comments API: 47-095-02867-0000 BH Job #: 111856012 Rig: H&P 317 Duration: 9/4/2023-9/9/2023 Gyrodata MS Gyro <17-1/2"> (100'-554') APS EM <12-1/4"> (554')(676'-3509') APS EM <8-3/4"> (3509')(3561'-6116') BH AT Curve [ST01] <8-1/2"> (6116')(6186'-26093') Sycamore: 7013' MD Middlesex: 7174' MD Burkett: 7355' MD Marcellus POE: 7460' MD Projected MD at TD: 26118'</p>

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