



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
Field: Tyler
Facility: Roma Lou Pad

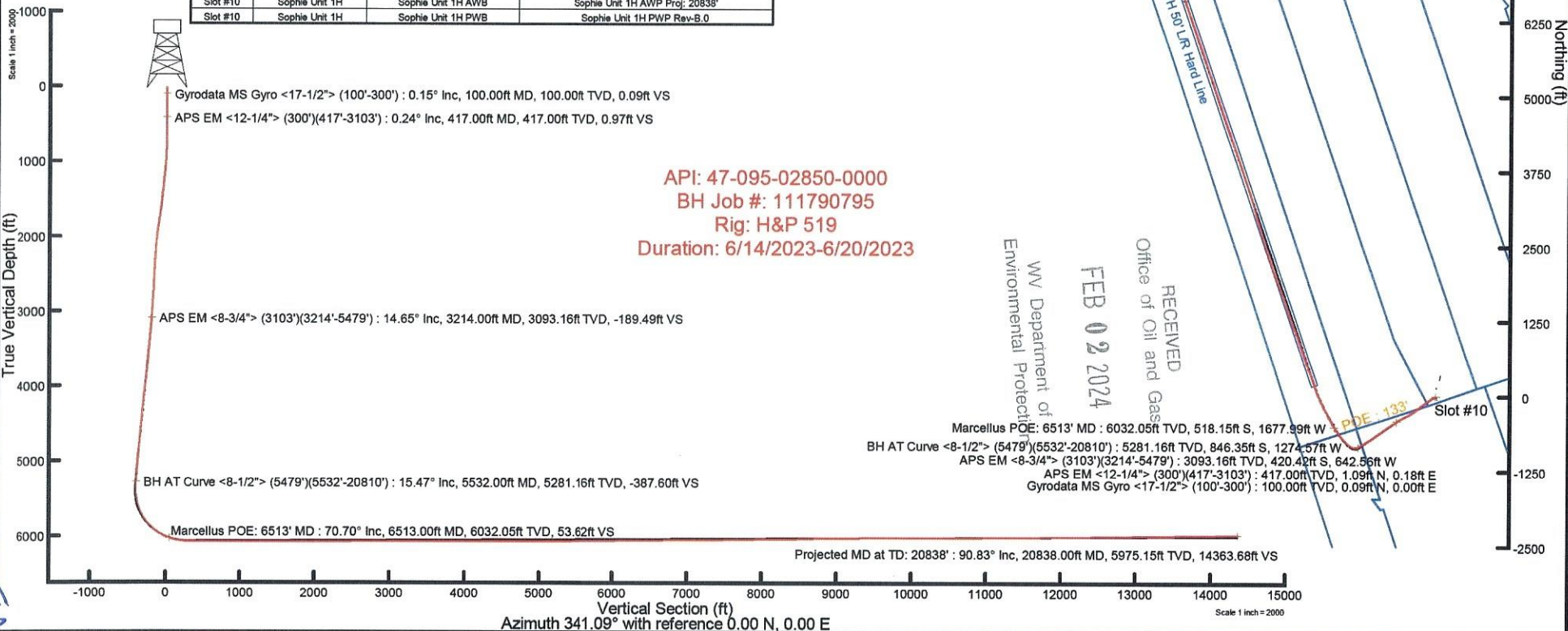
Slot: Slot #10
Well: Sophie Unit 1H
Wellbore: Sophie Unit 1H PWB

Pit reference wellpath is Sophie Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 913 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #10): -863 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-06-29; Database: WA, MPL, EASTERNUS, Dem

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Roma Lou Pad	1647741.529	14338818.190	39°29'8.9000"N	80°58'26.5400"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #10	-280.72	-57.24	1647684.310	14338537.580
Comment: Sophie Unit 1H - Plat SHL				
H&P 519 (RKB) to Ground level (At Slot: Slot #10)				30ft
Mean Sea Level to Ground level (At Slot: Slot #10)				-863ft
H&P 519 (RKB) to Mean Sea Level				913ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3103.00	15.100	237.020	2985.88	-404.37	-619.02	0.83	-181.93
Proj. to Bottom	3160.00	15.100	237.020	3060.22	-415.29	-635.85	0.00	-186.81
Drill Out	3260.00	15.100	237.020	3137.46	-426.64	-653.33	0.00	-191.88
End of 3D Arc	3396.04	19.135	234.924	3267.45	-449.10	-686.46	3.00	-202.40
Curve KOP	5592.96	19.135	234.924	5342.98	-862.94	-1275.81	0.00	-402.90
POE	6498.87	69.579	330.244	6022.00	-534.77	-1660.75	8.00	32.31
Landing Pt.	6757.68	90.300	330.244	6067.00	-314.58	-1786.63	8.00	281.42
On AZI	7300.07	90.300	341.088	6064.15	178.70	-2009.71	2.00	820.37
BHL	20844.41	90.300	341.088	5993.23	12991.70	-6399.59	0.00	14364.52

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #10	Sophie Unit 1H	Sophie Unit 1H AWB	Sophie Unit 1H AWP Proj: 20838'
Slot #10	Sophie Unit 1H	Sophie Unit 1H PWB	Sophie Unit 1H PWP Rev-B.0





Actual Wellpath Report

Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	6/29/2023 at 3:37:42 AM
Convergence at slot	0.02° 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	-280.72	-57.24	1647684.31	14338537.58	39°29'6.1257"N	80°58'27.2711"W
Facility Reference Pt			1647741.53	14338818.19	39°29'8.9000"N	80°58'26.5400"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	913.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	913.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #10)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.09°

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Field	Tyler		API	47-095-02850-0000
Facility	Roma Lou Pad		Wellbore	Sophie Unit 1H AWB
Slot	Slot #10			

WELLPATH DATA (226 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	1.440	0.00	0.00	0.00	0.00	1647684.31	14338537.58	39°29'6.1257"N	80°58'27.2711"W	0.00	0.000	0.00	0.00	0.00		
30.00	0.000	1.440	30.00	0.00	0.00	0.00	1647684.31	14338537.58	39°29'6.1257"N	80°58'27.2711"W	0.00	0.000	0.00	0.00	0.00		
100.00	0.150	1.440	100.00	0.09	0.09	0.00	1647684.31	14338537.67	39°29'6.1266"N	80°58'27.2711"W	0.09	1.440	0.21	0.21	0.00		Gyrodata MS Gyro <17-1/2"> (100'-300')
200.00	0.210	334.320	200.00	0.39	0.39	-0.07	1647684.24	14338537.97	39°29'6.1295"N	80°58'27.2720"W	0.39	349.217	0.10	0.06	-27.12		
300.00	0.210	23.510	300.00	0.71	0.72	-0.08	1647684.23	14338538.30	39°29'6.1328"N	80°58'27.2721"W	0.73	353.657	0.17	0.00	49.19		
417.00	0.240	46.810	417.00	0.97	1.09	0.18	1647684.49	14338538.66	39°29'6.1364"N	80°58'27.2687"W	1.10	9.627	0.08	0.03	19.91		APS EM <12-1/4"> (300')(417'-3103')
506.00	1.550	254.430	505.99	1.11	0.89	-0.84	1647683.47	14338538.47	39°29'6.1345"N	80°58'27.2818"W	1.22	316.655	1.98	1.47	-171.21		
596.00	4.580	247.420	595.85	0.95	-0.82	-5.33	1647678.98	14338536.76	39°29'6.1176"N	80°58'27.3391"W	5.39	261.285	3.39	3.37	-7.79		
687.00	7.500	249.800	686.33	0.59	-4.26	-14.26	1647670.05	14338533.32	39°29'6.0836"N	80°58'27.4530"W	14.89	253.355	3.22	3.21	2.62		
777.00	10.240	250.190	775.25	0.33	-9.00	-27.30	1647657.02	14338528.58	39°29'6.0368"N	80°58'27.6194"W	28.75	251.748	3.05	3.04	0.43		
866.00	11.620	243.770	862.64	-0.94	-15.65	-42.79	1647641.54	14338521.94	39°29'5.9711"N	80°58'27.8169"W	45.56	249.913	2.07	1.55	-7.21		
956.00	13.080	237.480	950.56	-4.49	-25.13	-59.51	1647624.83	14338512.46	39°29'5.8775"N	80°58'28.0301"W	64.59	247.106	2.20	1.62	-6.99		
1047.00	14.540	231.110	1038.93	-10.81	-37.84	-77.08	1647607.26	14338499.76	39°29'5.7519"N	80°58'28.2543"W	85.87	243.855	2.31	1.60	-7.00		
1141.00	16.280	230.060	1129.54	-19.58	-53.71	-96.37	1647587.98	14338483.90	39°29'5.5952"N	80°58'28.5004"W	110.32	240.870	1.87	1.85	-1.12		
1236.00	18.300	234.780	1220.25	-28.54	-70.86	-118.77	1647565.59	14338466.75	39°29'5.4257"N	80°58'28.7861"W	138.30	239.179	2.59	2.13	4.97		
1330.00	19.080	236.120	1309.29	-36.66	-87.93	-143.58	1647540.79	14338449.68	39°29'5.2570"N	80°58'29.1026"W	168.37	238.515	0.95	0.83	1.43		
1425.00	19.480	234.780	1398.97	-45.12	-105.73	-169.41	1647514.97	14338431.90	39°29'5.0812"N	80°58'29.4321"W	199.69	238.033	0.63	0.42	-1.41		
1519.00	20.180	233.900	1487.39	-54.31	-124.32	-195.32	1647489.07	14338413.31	39°29'4.8975"N	80°58'29.7626"W	231.52	237.523	0.81	0.74	-0.94		
1614.00	20.660	232.860	1576.42	-64.40	-144.09	-221.92	1647462.48	14338393.55	39°29'4.7022"N	80°58'30.1019"W	264.59	237.004	0.63	0.51	-1.09		
1708.00	20.810	230.470	1664.34	-75.46	-164.73	-248.01	1647436.40	14338372.91	39°29'4.4983"N	80°58'30.4348"W	297.74	236.408	0.91	0.16	-2.54		
1803.00	21.370	229.640	1752.97	-87.74	-186.68	-274.22	1647410.20	14338350.97	39°29'4.2814"N	80°58'30.7691"W	331.73	235.754	0.67	0.59	-0.87		
1897.00	21.990	228.740	1840.32	-100.69	-209.38	-300.50	1647383.93	14338328.29	39°29'4.0571"N	80°58'31.1044"W	366.25	235.132	0.75	0.66	-0.96		
1992.00	21.390	231.640	1928.60	-113.22	-231.86	-327.45	1647356.99	14338305.81	39°29'3.8350"N	80°58'31.4483"W	401.23	234.699	1.29	-0.63	3.05		
2086.00	21.020	234.550	2016.24	-123.73	-252.28	-354.63	1647329.82	14338285.40	39°29'3.6333"N	80°58'31.7949"W	435.21	234.573	1.19	-0.39	3.10		
2180.00	20.280	237.340	2104.20	-132.40	-270.85	-382.08	1647302.38	14338266.84	39°29'3.4498"N	80°58'32.1451"W	468.34	234.668	1.31	-0.79	2.97		
2275.00	18.980	240.390	2193.68	-139.19	-287.37	-409.37	1647275.10	14338250.33	39°29'3.2867"N	80°58'32.4932"W	500.16	234.932	1.74	-1.37	3.21		
2369.00	19.150	239.660	2282.52	-145.08	-302.71	-435.97	1647248.52	14338235.00	39°29'3.1351"N	80°58'32.8325"W	530.75	235.227	0.31	0.18	-0.78		
2463.00	18.070	242.680	2371.61	-150.27	-317.19	-462.23	1647222.27	14338220.52	39°29'2.9921"N	80°58'33.1675"W	560.59	235.542	1.54	-1.15	3.21		
2558.00	16.750	243.330	2462.25	-154.27	-330.09	-487.55	1647196.95	14338207.62	39°29'2.8646"N	80°58'33.4905"W	588.79	235.900	1.40	-1.39	0.68		
2652.00	16.580	242.340	2552.31	-158.14	-342.40	-511.54	1647172.98	14338195.32	39°29'2.7430"N	80°58'33.7964"W	615.55	236.203	0.35	-0.18	-1.05		

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Sophie Unit 1H AWP Proj: 20838'

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Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

WELLPATH DATA (226 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
2747.00	16.360	241.700	2643.41	-162.38	-355.03	-535.32	1647149.20	14338182.69	39°29'2.6182"N	80°58'34.0998"W	642.35	236.447	0.30	-0.23	-0.67	
2841.00	16.090	240.520	2733.66	-166.93	-367.72	-558.32	1647126.22	14338170.01	39°29'2.4929"N	80°58'34.3931"W	668.53	236.630	0.45	-0.29	-1.26	
2936.00	15.820	239.350	2825.00	-171.98	-380.80	-580.92	1647103.63	14338156.93	39°29'2.3636"N	80°58'34.6814"W	694.60	236.755	0.44	-0.28	-1.23	
3031.00	15.620	238.150	2916.45	-177.48	-394.15	-602.92	1647081.63	14338143.59	39°29'2.2318"N	80°58'34.9621"W	720.33	236.826	0.40	-0.21	-1.26	
3103.00	15.100	237.020	2985.88	-181.93	-404.37	-619.02	1647065.54	14338133.37	39°29'2.1308"N	80°58'35.1675"W	739.40	236.846	0.83	-0.72	-1.57	
3214.00	14.650	234.360	3093.16	-189.49	-420.42	-642.56	1647042.01	14338117.33	39°29'1.9722"N	80°58'35.4677"W	767.88	236.804	0.74	-0.41	-2.40	APS EM <8-3/4"> (3103')(3214'-5479')
3309.00	16.730	235.280	3184.62	-196.67	-435.21	-663.56	1647021.01	14338102.54	39°29'1.8261"N	80°58'35.7356"W	793.55	236.740	2.21	2.19	0.97	
3403.00	19.270	240.330	3274.01	-203.26	-450.60	-688.17	1646996.42	14338087.16	39°29'1.6741"N	80°58'36.0495"W	822.56	236.784	3.17	2.70	5.37	
3498.00	19.570	238.150	3363.61	-209.75	-466.75	-715.30	1646969.29	14338071.01	39°29'1.5145"N	80°58'36.3956"W	854.12	236.874	0.83	0.32	-2.29	
3592.00	18.970	234.190	3452.35	-217.71	-484.00	-741.07	1646943.54	14338053.77	39°29'1.3441"N	80°58'36.7243"W	885.12	236.851	1.53	-0.64	-4.21	
3687.00	19.000	237.730	3542.18	-225.78	-501.29	-766.67	1646917.95	14338036.49	39°29'1.1732"N	80°58'37.0508"W	916.01	236.821	1.21	0.03	3.73	
3781.00	18.630	237.520	3631.16	-232.83	-517.53	-792.27	1646892.36	14338020.26	39°29'1.0129"N	80°58'37.3774"W	946.32	236.847	0.40	-0.39	-0.22	
3876.00	17.690	232.630	3721.43	-240.97	-534.44	-816.54	1646868.09	14338003.36	39°29'0.8458"N	80°58'37.6870"W	975.89	236.795	1.88	-0.99	-5.15	
3970.00	18.870	233.230	3810.69	-250.15	-552.21	-840.07	1646844.58	14337985.60	39°29'0.6703"N	80°58'37.9872"W	1005.31	236.682	1.27	1.26	0.64	
4064.00	20.500	233.870	3899.19	-259.69	-571.01	-865.54	1646819.11	14337966.80	39°29'0.4845"N	80°58'38.3121"W	1036.93	236.587	1.75	1.73	0.68	
4159.00	19.380	229.260	3988.50	-270.47	-591.11	-890.92	1646793.74	14337946.71	39°29'0.2859"N	80°58'38.6359"W	1069.18	236.437	2.03	-1.18	-4.85	
4253.00	19.180	232.410	4077.23	-281.22	-610.71	-914.98	1646769.70	14337927.12	39°29'0.0923"N	80°58'38.9427"W	1100.07	236.279	1.13	-0.21	3.35	
4348.00	20.420	235.440	4166.61	-290.69	-629.63	-940.99	1646743.70	14337908.21	39°28'59.9053"N	80°58'39.2745"W	1132.21	236.213	1.69	1.31	3.19	
4442.00	19.430	231.320	4254.99	-300.40	-648.70	-966.70	1646717.99	14337889.14	39°28'59.7168"N	80°58'39.6025"W	1164.19	236.137	1.83	-1.05	-4.38	
4537.00	19.150	234.450	4344.66	-310.21	-667.64	-991.72	1646692.99	14337870.21	39°28'59.5298"N	80°58'39.9216"W	1195.51	236.051	1.13	-0.29	3.29	
4631.00	18.450	236.730	4433.64	-318.31	-684.76	-1016.70	1646668.02	14337853.09	39°28'59.3606"N	80°58'40.2402"W	1225.80	236.039	1.08	-0.74	2.43	
4726.00	18.950	234.480	4523.63	-326.45	-701.97	-1041.82	1646642.91	14337835.89	39°28'59.1905"N	80°58'40.5607"W	1256.25	236.028	0.92	0.53	-2.37	
4821.00	20.910	237.230	4612.94	-334.92	-720.11	-1068.64	1646616.10	14337817.76	39°28'59.0113"N	80°58'40.9027"W	1288.62	236.026	2.29	2.06	2.89	
4915.00	22.950	241.430	4700.14	-342.01	-737.96	-1098.84	1646585.91	14337799.92	39°28'58.8350"N	80°58'41.2880"W	1323.64	236.116	2.74	2.17	4.47	
5010.00	21.790	237.610	4787.99	-349.23	-756.26	-1130.00	1646554.76	14337781.62	39°28'58.6542"N	80°58'41.6855"W	1359.72	236.207	1.96	-1.22	-4.02	
5104.00	19.520	233.350	4875.95	-358.09	-774.99	-1157.34	1646527.44	14337762.90	39°28'58.4692"N	80°58'42.0342"W	1392.85	236.193	2.89	-2.41	-4.53	
5198.00	17.820	237.280	4965.00	-366.31	-792.14	-1182.04	1646502.75	14337745.76	39°28'58.2997"N	80°58'42.3493"W	1422.92	236.172	2.25	-1.81	4.18	
5293.00	20.380	243.520	5054.77	-371.96	-807.37	-1209.08	1646475.71	14337730.53	39°28'58.1492"N	80°58'42.6942"W	1453.87	236.267	3.44	2.69	6.57	
5387.00	20.000	241.250	5143.00	-376.86	-822.40	-1237.83	1646446.98	14337715.51	39°28'58.0007"N	80°58'43.0609"W	1486.12	236.400	0.93	-0.40	-2.41	
5479.00	16.930	235.020	5230.26	-383.26	-837.66	-1262.60	1646422.21	14337700.26	39°28'57.8500"N	80°58'43.3769"W	1515.20	236.438	3.96	-3.34	-6.77	

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Field	Tyler		API	47-095-02850-0000
Facility	Roma Lou Pad		Wellbore	Sophie Unit 1H AWB
Slot	Slot #10			

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5532.00	15.470	232.890	5281.16	-387.60	-846.35	-1274.57	1646410.26	14337691.57	39°28'57.7642"N	80°58'43.5295"W	1529.97	236.415	2.97	-2.75	-4.02	BH AT Curve <8-1/2"> (5479')(5532'-20810')
5609.00	15.260	245.980	5355.43	-391.71	-856.67	-1292.02	1646392.81	14337681.25	39°28'57.6622"N	80°58'43.7521"W	1550.22	236.454	4.50	-0.27	17.00	
5704.00	17.200	268.590	5446.73	-388.60	-862.11	-1317.50	1646367.33	14337675.82	39°28'57.6085"N	80°58'44.0771"W	1574.50	236.801	6.91	2.04	23.80	
5798.00	21.080	286.890	5535.59	-374.52	-857.54	-1347.61	1646337.24	14337680.39	39°28'57.6538"N	80°58'44.4611"W	1597.32	237.530	7.55	4.13	19.47	
5893.00	26.140	297.050	5622.65	-349.45	-843.04	-1382.64	1646302.23	14337694.88	39°28'57.7971"N	80°58'44.9077"W	1619.38	238.628	6.82	5.33	10.69	
5987.00	31.300	301.900	5705.07	-315.61	-820.70	-1421.84	1646263.04	14337717.21	39°28'58.0180"N	80°58'45.4077"W	1641.70	240.006	6.02	5.49	5.16	
6082.00	38.000	313.240	5783.26	-270.53	-787.55	-1464.18	1646220.71	14337750.34	39°28'58.3457"N	80°58'45.9476"W	1662.55	241.725	9.76	7.05	11.94	
6158.00†	43.993	317.165	5840.60	-225.67	-752.13	-1499.21	1646185.70	14337785.75	39°28'58.6958"N	80°58'46.3942"W	1677.30	243.358	8.58	7.89	5.17	Sycamore: 6158' MD
6176.00	45.430	317.970	5853.39	-214.06	-742.79	-1507.75	1646177.16	14337795.09	39°28'58.7882"N	80°58'46.5032"W	1680.79	243.773	8.58	7.98	4.47	
6271.00	51.850	319.140	5916.14	-148.22	-689.34	-1554.90	1646130.04	14337848.51	39°28'59.3165"N	80°58'47.1043"W	1700.85	246.090	6.82	6.76	1.23	
6304.00†	54.243	320.625	5935.97	-123.64	-669.18	-1571.88	1646113.06	14337868.67	39°28'59.5159"N	80°58'47.3208"W	1708.40	246.940	8.09	7.25	4.50	Middlesex: 6304' MD
6365.00	58.710	323.150	5969.66	-75.63	-629.16	-1603.24	1646081.72	14337908.67	39°28'59.9114"N	80°58'47.7206"W	1722.27	248.573	8.09	7.32	4.14	
6449.00†	66.079	326.184	6008.56	-4.27	-568.45	-1646.19	1646038.78	14337969.36	39°29'0.5116"N	80°58'48.2683"W	1741.58	250.950	9.34	8.77	3.61	Burkett: 6449' MD
6459.00	66.960	326.520	6012.55	4.60	-560.82	-1651.28	1646033.70	14337976.99	39°29'0.5871"N	80°58'48.3331"W	1743.91	251.241	9.34	8.81	3.36	
6513.00†	70.696	329.348	6032.05	53.62	-518.15	-1677.99	1646007.00	14338019.64	39°29'1.0088"N	80°58'48.6736"W	1756.17	252.840	8.47	6.92	5.24	Marcellus POE: 6513' MD
6553.00	73.490	331.360	6044.35	91.02	-485.07	-1696.81	1645988.19	14338052.71	39°29'1.3358"N	80°58'48.9136"W	1764.78	254.046	8.47	6.99	5.03	
6648.00	81.100	330.830	6065.23	182.21	-404.00	-1741.57	1645943.44	14338133.74	39°29'2.1371"N	80°58'49.4843"W	1787.82	256.940	8.03	8.01	-0.56	
6742.00	88.400	331.480	6073.82	274.35	-322.07	-1786.70	1645898.33	14338215.64	39°29'2.9470"N	80°58'50.0596"W	1815.50	259.782	7.80	7.77	0.69	
6837.00	90.060	332.250	6075.10	368.11	-238.30	-1831.49	1645853.56	14338299.37	39°29'3.7750"N	80°58'50.6306"W	1846.93	262.587	1.93	1.75	0.81	
6931.00	89.720	332.920	6075.28	461.08	-154.86	-1874.77	1645810.29	14338382.78	39°29'4.5997"N	80°58'51.1824"W	1881.16	265.278	0.80	-0.36	0.71	
7026.00	89.450	333.910	6075.97	555.22	-69.91	-1917.28	1645767.80	14338467.70	39°29'5.4394"N	80°58'51.7244"W	1918.56	267.912	1.08	-0.28	1.04	
7120.00	89.780	337.740	6076.60	648.81	15.83	-1955.77	1645729.32	14338553.40	39°29'6.2869"N	80°58'52.2150"W	1955.84	270.464	4.09	0.35	4.07	
7215.00	89.720	342.280	6077.02	743.76	105.08	-1988.24	1645696.87	14338642.62	39°29'7.1691"N	80°58'52.6289"W	1991.01	273.025	4.78	-0.06	4.78	
7309.00	89.780	340.630	6077.43	837.76	194.20	-2018.13	1645666.99	14338731.70	39°29'8.0499"N	80°58'53.0099"W	2027.46	275.496	1.76	0.06	-1.76	
7404.00	89.880	340.630	6077.71	932.76	283.82	-2049.64	1645635.49	14338821.29	39°29'8.9357"N	80°58'53.4115"W	2069.20	277.884	0.11	0.11	0.00	
7498.00	91.820	339.510	6076.31	1026.72	372.17	-2081.68	1645603.47	14338909.61	39°29'9.8091"N	80°58'53.8199"W	2114.69	280.137	2.38	2.06	-1.19	
7592.00	89.720	339.800	6075.05	1120.68	460.30	-2114.36	1645570.80	14338997.69	39°29'10.6801"N	80°58'54.2364"W	2163.88	282.282	2.26	-2.23	0.31	
7687.00	90.120	341.000	6075.18	1215.67	549.79	-2146.22	1645538.95	14339087.15	39°29'11.5646"N	80°58'54.6426"W	2215.52	284.368	1.33	0.42	1.26	
7781.00	89.750	341.010	6075.29	1309.67	638.67	-2176.82	1645508.37	14339176.00	39°29'12.4431"N	80°58'55.0326"W	2268.58	286.352	0.39	-0.39	0.01	
7876.00	91.260	339.680	6074.45	1404.65	728.13	-2208.77	1645476.43	14339265.42	39°29'13.3273"N	80°58'55.4399"W	2325.69	288.245	2.12	1.59	-1.40	

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Actual Wellpath Report

Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

WELLPATH DATA (226 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
7970.00	89.350	340.340	6073.95	1498.63	816.46	-2240.90	1645444.31	14339353.71	39°29'14.2004"N	80°58'55.8495"W	2385.00	290.019	2.15	-2.03	0.70	
8065.00	89.940	341.050	6074.54	1593.63	906.12	-2272.31	1645412.92	14339443.33	39°29'15.0866"N	80°58'56.2499"W	2446.31	291.740	0.97	0.62	0.75	
8159.00	89.420	340.430	6075.07	1687.62	994.85	-2303.31	1645381.92	14339532.03	39°29'15.9637"N	80°58'56.6451"W	2508.98	293.361	0.86	-0.55	-0.66	
8253.00	90.830	339.190	6074.86	1781.59	1083.07	-2335.75	1645349.50	14339620.22	39°29'16.8356"N	80°58'57.0587"W	2574.64	294.877	2.00	1.50	-1.32	
8348.00	89.350	338.830	6074.71	1876.53	1171.77	-2369.78	1645315.48	14339708.87	39°29'17.7123"N	80°58'57.4925"W	2643.65	296.311	1.60	-1.56	-0.38	
8537.00	89.690	340.240	6076.29	2065.45	1348.83	-2435.86	1645249.43	14339885.86	39°29'19.4624"N	80°58'58.3348"W	2784.37	298.975	0.77	0.18	0.75	
8631.00	89.850	343.450	6076.67	2159.43	1438.13	-2465.14	1645220.16	14339975.14	39°29'20.3451"N	80°58'58.7081"W	2853.97	300.259	3.42	0.17	3.41	
8726.00	90.620	341.560	6076.28	2254.39	1528.73	-2493.70	1645191.61	14340065.70	39°29'21.2406"N	80°58'59.0721"W	2924.99	301.510	2.15	0.81	-1.99	
8820.00	90.550	340.650	6075.32	2348.39	1617.66	-2524.14	1645161.18	14340154.59	39°29'22.1196"N	80°58'59.4602"W	2998.02	302.655	0.97	-0.07	-0.97	
8915.00	91.050	338.740	6074.00	2443.34	1706.75	-2557.10	1645128.24	14340243.64	39°29'23.0001"N	80°58'59.8804"W	3074.37	303.721	2.08	0.53	-2.01	
9009.00	91.350	337.430	6072.03	2537.19	1793.93	-2592.18	1645093.17	14340330.79	39°29'23.8618"N	80°59'0.3276"W	3152.39	304.685	1.43	0.32	-1.39	
9104.00	90.120	337.700	6070.81	2632.00	1881.73	-2628.43	1645056.94	14340418.56	39°29'24.7297"N	80°59'0.7897"W	3232.58	305.599	1.33	-1.29	0.28	
9198.00	90.150	339.360	6070.59	2725.91	1969.21	-2662.83	1645022.55	14340506.00	39°29'25.5943"N	80°59'1.2284"W	3311.87	306.484	1.77	0.03	1.77	
9292.00	90.180	339.420	6070.32	2819.86	2057.19	-2695.92	1644989.47	14340593.94	39°29'26.4639"N	80°59'1.6502"W	3391.17	307.346	0.07	0.03	0.06	
9387.00	90.340	340.860	6069.89	2914.85	2146.54	-2728.19	1644957.21	14340683.26	39°29'27.3470"N	80°59'2.0616"W	3471.41	308.196	1.53	0.17	1.52	
9481.00	90.030	341.920	6069.58	3008.84	2235.62	-2758.19	1644927.23	14340772.30	39°29'28.2275"N	80°59'2.4440"W	3550.44	309.026	1.17	-0.33	1.13	
9576.00	90.090	343.170	6069.48	3103.81	2326.25	-2786.69	1644898.74	14340862.89	39°29'29.1232"N	80°59'2.8073"W	3630.02	309.854	1.32	0.06	1.32	
9670.00	89.910	343.020	6069.48	3197.75	2416.18	-2814.02	1644871.42	14340952.79	39°29'30.0121"N	80°59'3.1557"W	3709.00	310.650	0.25	-0.19	-0.16	
9764.00	90.400	343.500	6069.23	3291.69	2506.20	-2841.09	1644844.36	14341042.77	39°29'30.9018"N	80°59'3.5009"W	3788.52	311.416	0.73	0.52	0.51	
9858.00	89.880	343.300	6069.00	3385.61	2596.28	-2867.95	1644817.51	14341132.82	39°29'31.7922"N	80°59'3.8432"W	3868.57	312.154	0.59	-0.55	-0.21	
9953.00	89.720	343.050	6069.33	3480.54	2687.21	-2895.45	1644790.03	14341223.71	39°29'32.6910"N	80°59'4.1938"W	3950.28	312.864	0.31	-0.17	-0.26	
10048.00	89.940	343.340	6069.61	3575.48	2778.16	-2922.91	1644762.57	14341314.62	39°29'33.5898"N	80°59'4.5439"W	4032.56	313.546	0.38	0.23	0.31	
10142.00	89.910	342.910	6069.73	3669.42	2868.11	-2950.20	1644735.30	14341404.53	39°29'34.4789"N	80°59'4.8918"W	4114.57	314.192	0.46	-0.03	-0.46	
10237.00	90.310	342.900	6069.55	3764.37	2958.91	-2978.12	1644707.38	14341495.30	39°29'35.3764"N	80°59'5.2478"W	4198.14	314.815	0.42	0.42	-0.01	
10331.00	89.720	343.470	6069.53	3858.31	3048.89	-3005.32	1644680.20	14341585.24	39°29'36.2657"N	80°59'5.5944"W	4281.08	315.412	0.87	-0.63	0.61	
10426.00	89.080	342.830	6070.52	3953.24	3139.81	-3032.85	1644652.68	14341676.12	39°29'37.1643"N	80°59'5.9455"W	4365.38	315.993	0.95	-0.67	-0.67	
10520.00	90.180	342.710	6071.13	4047.20	3229.58	-3060.69	1644624.85	14341765.87	39°29'38.0517"N	80°59'6.3004"W	4449.50	316.538	1.18	1.17	-0.13	
10614.00	90.250	343.100	6070.78	4141.15	3319.43	-3088.33	1644597.22	14341855.68	39°29'38.9397"N	80°59'6.6527"W	4533.91	317.066	0.42	0.07	0.41	
10709.00	90.460	341.960	6070.19	4236.12	3410.04	-3116.85	1644568.72	14341946.25	39°29'39.8354"N	80°59'7.0163"W	4619.86	317.572	1.22	0.22	-1.20	
10803.00	90.310	340.880	6069.56	4330.11	3499.14	-3146.79	1644538.78	14342035.32	39°29'40.7160"N	80°59'7.3981"W	4705.99	318.035	1.16	-0.16	-1.15	

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Actual Wellpath Report

Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

WELLPATH DATA (226 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
10898.00	90.220	341.180	6069.12	4425.11	3588.98	-3177.68	1644507.91	14342125.12	39°29'41.6040"N	80°59'7.7919"W	4793.58	318.478	0.33	-0.09	0.32	
10992.00	91.140	342.940	6068.00	4519.08	3678.40	-3206.63	1644478.97	14342214.50	39°29'42.4878"N	80°59'8.1610"W	4879.87	318.920	2.11	0.98	1.87	
11087.00	89.940	341.320	6067.11	4614.06	3768.81	-3235.78	1644449.83	14342304.87	39°29'43.3813"N	80°59'8.5326"W	4967.31	319.352	2.12	-1.26	-1.71	
11181.00	89.940	340.940	6067.20	4708.06	3857.76	-3266.18	1644419.45	14342393.79	39°29'44.2605"N	80°59'8.9202"W	5054.72	319.747	0.40	0.00	-0.40	
11275.00	89.320	339.850	6067.81	4802.05	3946.30	-3297.72	1644387.92	14342482.30	39°29'45.1357"N	80°59'9.3224"W	5142.79	320.116	1.33	-0.66	-1.16	
11370.00	89.940	340.910	6068.42	4897.04	4035.78	-3329.61	1644356.03	14342571.74	39°29'46.0201"N	80°59'9.7291"W	5232.01	320.477	1.29	0.65	1.12	
11464.00	90.310	340.940	6068.22	4991.04	4124.62	-3360.33	1644325.33	14342660.54	39°29'46.8982"N	80°59'10.1208"W	5320.18	320.830	0.39	0.39	0.03	
11559.00	90.120	341.120	6067.86	5086.04	4214.46	-3391.22	1644294.46	14342750.35	39°29'47.7861"N	80°59'10.5145"W	5409.44	321.178	0.28	-0.20	0.19	
11653.00	90.180	341.210	6067.62	5180.04	4303.43	-3421.56	1644264.12	14342839.28	39°29'48.6655"N	80°59'10.9015"W	5497.87	321.513	0.12	0.06	0.10	
11748.00	90.310	341.530	6067.21	5275.03	4393.45	-3451.91	1644233.79	14342929.26	39°29'49.5552"N	80°59'11.2884"W	5587.31	321.843	0.36	0.14	0.34	
11842.00	90.180	341.380	6066.81	5369.03	4482.57	-3481.81	1644203.90	14343018.35	39°29'50.4361"N	80°59'11.6696"W	5675.95	322.162	0.21	-0.14	-0.16	
11936.00	90.550	341.400	6066.21	5463.03	4571.65	-3511.80	1644173.92	14343107.39	39°29'51.3165"N	80°59'12.0521"W	5764.79	322.470	0.39	0.39	0.02	
12031.00	90.890	341.700	6065.02	5558.02	4661.76	-3541.87	1644143.87	14343197.47	39°29'52.2072"N	80°59'12.4354"W	5854.64	322.774	0.48	0.36	0.32	
12126.00	90.680	341.030	6063.71	5653.01	4751.77	-3572.22	1644113.53	14343287.44	39°29'53.0968"N	80°59'12.8224"W	5944.75	323.065	0.74	-0.22	-0.71	
12220.00	90.550	340.870	6062.71	5747.00	4840.62	-3602.90	1644082.86	14343376.25	39°29'53.9750"N	80°59'13.2136"W	6034.27	323.339	0.22	-0.14	-0.17	
12314.00	90.620	341.070	6061.75	5841.00	4929.48	-3633.55	1644052.22	14343465.07	39°29'54.8532"N	80°59'13.6044"W	6123.92	323.606	0.23	0.07	0.21	
12409.00	90.460	341.090	6060.85	5935.99	5019.34	-3664.35	1644021.43	14343554.90	39°29'55.7414"N	80°59'13.9972"W	6214.60	323.869	0.17	-0.17	0.02	
12503.00	90.710	341.820	6059.89	6029.98	5108.45	-3694.24	1643991.55	14343643.98	39°29'56.6222"N	80°59'14.3784"W	6304.26	324.127	0.82	0.27	0.78	
12597.00	90.710	341.450	6058.73	6123.97	5197.66	-3723.86	1643961.95	14343733.15	39°29'57.5039"N	80°59'14.7560"W	6393.96	324.380	0.39	0.00	-0.39	
12692.00	90.340	340.750	6057.86	6218.97	5287.53	-3754.63	1643931.19	14343822.99	39°29'58.3922"N	80°59'15.1484"W	6485.00	324.622	0.83	-0.39	-0.74	
12786.00	90.650	340.940	6057.04	6312.96	5376.32	-3785.47	1643900.36	14343911.74	39°29'59.2698"N	80°59'15.5417"W	6575.31	324.851	0.39	0.33	0.20	
12881.00	90.520	341.260	6056.07	6407.96	5466.20	-3816.24	1643869.60	14344001.58	39°30'0.1581"N	80°59'15.9340"W	6666.56	325.079	0.36	-0.14	0.34	
12975.00	90.950	341.100	6054.87	6501.95	5555.16	-3846.56	1643839.29	14344090.51	39°30'1.0374"N	80°59'16.3207"W	6756.91	325.300	0.49	0.46	-0.17	
13069.00	90.460	341.210	6053.71	6595.94	5644.12	-3876.92	1643808.94	14344179.43	39°30'1.9166"N	80°59'16.7078"W	6847.38	325.515	0.53	-0.52	0.12	
13163.00	90.620	340.860	6052.83	6689.94	5733.01	-3907.47	1643778.41	14344268.29	39°30'2.7952"N	80°59'17.0974"W	6937.99	325.723	0.41	0.17	-0.37	
13258.00	90.490	341.170	6051.91	6784.93	5822.84	-3938.38	1643747.52	14344358.08	39°30'3.6831"N	80°59'17.4915"W	7029.67	325.927	0.35	-0.14	0.33	
13352.00	90.370	340.590	6051.20	6878.93	5911.65	-3969.16	1643716.74	14344446.85	39°30'4.5609"N	80°59'17.8841"W	7120.53	326.122	0.63	-0.13	-0.62	
13447.00	90.030	340.620	6050.87	6973.92	6001.26	-4000.71	1643685.21	14344536.43	39°30'5.4465"N	80°59'18.2864"W	7212.55	326.311	0.36	-0.36	0.03	
13541.00	90.580	340.890	6050.37	7067.92	6090.00	-4031.69	1643654.24	14344625.14	39°30'6.3237"N	80°59'18.6815"W	7303.61	326.495	0.65	0.59	0.29	
13636.00	90.650	339.680	6049.35	7162.90	6179.43	-4063.74	1643622.20	14344714.53	39°30'7.2075"N	80°59'19.0901"W	7395.90	326.670	1.28	0.07	-1.27	

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Actual Wellpath Report

Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Sophie Unit 1H
Field	Tyler		API	47-095-02850-0000
Facility	Roma Lou Pad		Wellbore	Sophie Unit 1H AWB
Slot	Slot #10			

WELLPATH DATA (226 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
13730.00	90.340	340.860	6048.54	7256.89	6267.91	-4095.47	1643590.49	14344802.97	39°30'8.0820"N	80°59'19.4948"W	7487.29	326.839	1.30	-0.33	1.26	
13825.00	90.520	340.960	6047.82	7351.89	6357.68	-4126.54	1643559.43	14344892.70	39°30'8.9693"N	80°59'19.8910"W	7579.47	327.014	0.22	0.19	0.11	
13919.00	90.550	341.500	6046.95	7445.88	6446.68	-4156.79	1643529.20	14344981.66	39°30'9.8489"N	80°59'20.2767"W	7670.62	327.186	0.58	0.03	0.57	
14014.00	91.480	341.730	6045.26	7540.86	6536.81	-4186.74	1643499.25	14345071.76	39°30'10.7398"N	80°59'20.6588"W	7762.65	327.361	1.01	0.98	0.24	
14108.00	91.350	341.130	6042.94	7634.83	6625.89	-4216.67	1643469.34	14345160.81	39°30'11.6203"N	80°59'21.0404"W	7853.83	327.528	0.65	-0.14	-0.64	
14203.00	90.830	340.980	6041.13	7729.81	6715.73	-4247.51	1643438.51	14345250.61	39°30'12.5082"N	80°59'21.4337"W	7946.21	327.688	0.57	-0.55	-0.16	
14297.00	90.280	339.440	6040.22	7823.80	6804.17	-4279.33	1643406.70	14345339.01	39°30'13.3823"N	80°59'21.8395"W	8038.00	327.833	1.74	-0.59	-1.64	
14391.00	90.740	340.830	6039.39	7917.78	6892.57	-4311.27	1643374.77	14345427.38	39°30'14.2561"N	80°59'22.2469"W	8129.86	327.974	1.56	0.49	1.48	
14486.00	90.620	341.210	6038.26	8012.77	6982.40	-4342.16	1643343.89	14345517.17	39°30'15.1439"N	80°59'22.6409"W	8222.42	328.124	0.42	-0.13	0.40	
14580.00	90.950	341.130	6036.97	8106.76	7071.36	-4372.50	1643313.57	14345606.10	39°30'16.0232"N	80°59'23.0278"W	8314.02	328.270	0.36	0.35	-0.09	
14674.00	90.860	341.500	6035.49	8200.75	7160.39	-4402.61	1643283.47	14345695.09	39°30'16.9032"N	80°59'23.4118"W	8405.61	328.414	0.41	-0.10	0.39	
14769.00	90.580	341.100	6034.29	8295.74	7250.37	-4433.07	1643253.02	14345785.04	39°30'17.7925"N	80°59'23.8002"W	8498.23	328.557	0.51	-0.29	-0.42	
14863.00	90.400	341.140	6033.49	8389.74	7339.31	-4463.48	1643222.62	14345873.94	39°30'18.6715"N	80°59'24.1881"W	8590.00	328.694	0.20	-0.19	0.04	
14958.00	90.310	341.390	6032.90	8484.73	7429.27	-4494.00	1643192.12	14345963.87	39°30'19.5607"N	80°59'24.5772"W	8682.75	328.830	0.28	-0.09	0.26	
15052.00	92.560	347.320	6030.54	8578.50	7519.72	-4519.33	1643166.80	14346054.27	39°30'20.4546"N	80°59'24.9003"W	8773.28	328.994	6.75	2.39	6.31	
15146.00	91.450	342.830	6027.25	8672.19	7610.46	-4543.52	1643142.62	14346144.99	39°30'21.3515"N	80°59'25.2088"W	8863.56	329.162	4.92	-1.18	-4.78	
15241.00	90.950	341.320	6025.26	8767.15	7700.83	-4572.75	1643113.40	14346235.31	39°30'22.2447"N	80°59'25.5816"W	8956.16	329.298	1.67	-0.53	-1.59	
15336.00	90.740	341.090	6023.86	8862.14	7790.75	-4603.35	1643082.81	14346325.20	39°30'23.1335"N	80°59'25.9719"W	9049.13	329.422	0.33	-0.22	-0.24	
15430.00	90.620	341.240	6022.75	8956.14	7879.71	-4633.70	1643052.47	14346414.13	39°30'24.0127"N	80°59'26.3589"W	9141.17	329.542	0.20	-0.13	0.16	
15524.00	90.580	340.170	6021.76	9050.13	7968.43	-4664.76	1643021.43	14346502.81	39°30'24.8895"N	80°59'26.7550"W	9233.41	329.655	1.14	-0.04	-1.14	
15619.00	90.280	340.890	6021.05	9145.12	8057.99	-4696.42	1642989.78	14346592.33	39°30'25.7748"N	80°59'27.1589"W	9326.71	329.765	0.82	-0.32	0.76	
15713.00	90.520	340.890	6020.39	9239.12	8146.81	-4727.19	1642959.02	14346681.12	39°30'26.6526"N	80°59'27.5514"W	9418.96	329.876	0.26	0.26	0.00	
15808.00	90.550	341.310	6019.51	9334.11	8236.68	-4757.96	1642928.26	14346770.95	39°30'27.5409"N	80°59'27.9439"W	9512.16	329.987	0.44	0.03	0.44	
15902.00	91.110	341.390	6018.15	9428.10	8325.74	-4788.02	1642898.21	14346859.97	39°30'28.4211"N	80°59'28.3272"W	9604.33	330.097	0.60	0.60	0.09	
15997.00	89.820	341.030	6017.37	9523.10	8415.67	-4818.62	1642867.63	14346949.87	39°30'29.3099"N	80°59'28.7175"W	9697.56	330.206	1.41	-1.36	-0.38	
16091.00	90.090	341.010	6017.45	9617.10	8504.56	-4849.19	1642837.07	14347038.72	39°30'30.1885"N	80°59'29.1074"W	9789.90	330.309	0.29	0.29	-0.02	
16185.00	90.120	341.060	6017.28	9711.10	8593.46	-4879.74	1642806.53	14347127.58	39°30'31.0671"N	80°59'29.4971"W	9882.28	330.410	0.06	0.03	0.05	
16280.00	90.030	341.220	6017.15	9806.10	8683.36	-4910.45	1642775.83	14347217.45	39°30'31.9557"N	80°59'29.8888"W	9975.63	330.512	0.19	-0.09	0.17	
16374.00	89.850	341.600	6017.25	9900.09	8772.45	-4940.42	1642745.88	14347306.51	39°30'32.8362"N	80°59'30.2710"W	10067.95	330.613	0.45	-0.19	0.40	
16468.00	90.030	341.630	6017.35	9994.09	8861.65	-4970.06	1642716.24	14347395.67	39°30'33.7179"N	80°59'30.6491"W	10160.24	330.714	0.19	0.19	0.03	

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Actual Wellpath Report

Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

WELLPATH DATA (226 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
16562.00	90.150	341.630	6017.20	10088.09	8950.86	-4999.69	1642686.63	14347484.85	39°30'34.5996"N	80°59'31.0270"W	10252.55	330.814	0.13	0.13	0.00	
16657.00	90.090	341.650	6017.00	10183.08	9041.03	-5029.61	1642656.72	14347574.97	39°30'35.4908"N	80°59'31.4087"W	10345.88	330.912	0.07	-0.06	0.02	
16751.00	90.120	341.260	6016.83	10277.08	9130.15	-5059.51	1642626.84	14347664.06	39°30'36.3716"N	80°59'31.7900"W	10438.30	331.007	0.42	0.03	-0.41	
16845.00	90.000	341.210	6016.73	10371.08	9219.15	-5089.75	1642596.61	14347753.02	39°30'37.2512"N	80°59'32.1757"W	10530.82	331.098	0.14	-0.13	-0.05	
16940.00	90.680	341.780	6016.17	10466.07	9309.24	-5119.90	1642566.47	14347843.07	39°30'38.1416"N	80°59'32.5603"W	10624.27	331.190	0.93	0.72	0.60	
17034.00	90.180	341.200	6015.46	10560.07	9398.37	-5149.74	1642536.64	14347932.17	39°30'39.0226"N	80°59'32.9409"W	10716.77	331.280	0.81	-0.53	-0.62	
17128.00	90.340	341.180	6015.04	10654.07	9487.35	-5180.05	1642506.35	14348021.12	39°30'39.9020"N	80°59'33.3275"W	10809.38	331.366	0.17	0.17	-0.02	
17222.00	90.340	341.570	6014.48	10748.06	9576.42	-5210.07	1642476.34	14348110.15	39°30'40.7824"N	80°59'33.7105"W	10901.96	331.452	0.41	0.00	0.41	
17317.00	90.370	341.470	6013.89	10843.06	9666.52	-5240.18	1642446.24	14348200.22	39°30'41.6729"N	80°59'34.0946"W	10995.51	331.538	0.11	0.03	-0.11	
17411.00	90.460	341.610	6013.21	10937.05	9755.68	-5269.94	1642416.49	14348289.34	39°30'42.5541"N	80°59'34.4742"W	11088.09	331.622	0.18	0.10	0.15	
17505.00	90.430	341.290	6012.48	11031.05	9844.80	-5299.85	1642386.59	14348378.42	39°30'43.4349"N	80°59'34.8557"W	11180.72	331.705	0.34	-0.03	-0.34	
17599.00	90.280	341.350	6011.90	11125.05	9933.84	-5329.95	1642356.50	14348467.43	39°30'44.3150"N	80°59'35.2397"W	11273.40	331.784	0.17	-0.16	0.06	
17694.00	90.550	341.610	6011.21	11220.04	10023.92	-5360.13	1642326.34	14348557.47	39°30'45.2053"N	80°59'35.6246"W	11367.06	331.865	0.39	0.28	0.27	
17788.00	90.770	341.890	6010.13	11314.03	10113.19	-5389.56	1642296.91	14348646.70	39°30'46.0876"N	80°59'36.0001"W	11459.67	331.946	0.38	0.23	0.30	
17882.00	90.340	340.200	6009.21	11408.02	10202.08	-5420.09	1642266.40	14348735.56	39°30'46.9662"N	80°59'36.3896"W	11552.48	332.019	1.86	-0.46	-1.80	
17976.00	90.620	340.450	6008.43	11502.01	10290.59	-5451.74	1642234.76	14348824.04	39°30'47.8409"N	80°59'36.7933"W	11645.50	332.086	0.40	0.30	0.27	
18071.00	90.340	340.600	6007.63	11597.00	10380.15	-5483.41	1642203.10	14348913.56	39°30'48.7261"N	80°59'37.1973"W	11739.48	332.154	0.33	-0.29	0.16	
18165.00	90.710	340.070	6006.77	11690.99	10468.67	-5515.04	1642171.48	14349002.04	39°30'49.6010"N	80°59'37.6008"W	11832.53	332.219	0.69	0.39	-0.56	
18260.00	90.490	340.590	6005.77	11785.98	10558.12	-5547.02	1642139.52	14349091.45	39°30'50.4851"N	80°59'38.0087"W	11926.58	332.283	0.59	-0.23	0.55	
18354.00	90.520	340.200	6004.95	11879.96	10646.66	-5578.56	1642108.00	14349179.97	39°30'51.3602"N	80°59'38.4111"W	12019.64	332.347	0.42	0.03	-0.41	
18449.00	90.490	340.570	6004.11	11974.95	10736.15	-5610.45	1642076.12	14349269.41	39°30'52.2446"N	80°59'38.8179"W	12113.71	332.410	0.39	-0.03	0.39	
18543.00	90.400	340.380	6003.38	12068.94	10824.74	-5641.86	1642044.72	14349357.97	39°30'53.1202"N	80°59'39.2186"W	12206.79	332.471	0.22	-0.10	-0.20	
18637.00	90.650	340.700	6002.52	12162.94	10913.37	-5673.18	1642013.41	14349446.56	39°30'53.9962"N	80°59'39.6181"W	12299.86	332.533	0.43	0.27	0.34	
18732.00	90.680	341.060	6001.42	12257.93	11003.12	-5704.29	1641982.31	14349536.28	39°30'54.8833"N	80°59'40.0151"W	12393.85	332.597	0.38	0.03	0.38	
18826.00	90.680	340.800	6000.30	12351.92	11091.95	-5735.00	1641951.61	14349625.08	39°30'55.7613"N	80°59'40.4068"W	12486.86	332.659	0.28	0.00	-0.28	
19015.00	90.650	340.530	5998.11	12540.90	11270.28	-5797.57	1641889.07	14349803.33	39°30'57.5238"N	80°59'41.2051"W	12674.03	332.778	0.14	-0.02	-0.14	
19110.00	90.830	340.540	5996.88	12635.89	11359.85	-5829.23	1641857.43	14349892.86	39°30'58.4090"N	80°59'41.6089"W	12768.16	332.836	0.19	0.19	0.01	
19205.00	90.890	340.660	5995.45	12730.88	11449.44	-5860.78	1641825.89	14349982.42	39°30'59.2945"N	80°59'42.0115"W	12862.29	332.893	0.14	0.06	0.13	
19299.00	90.550	340.500	5994.27	12824.87	11538.09	-5892.03	1641794.65	14350071.03	39°31'0.1706"N	80°59'42.4102"W	12955.44	332.948	0.40	-0.36	-0.17	
19393.00	90.520	340.640	5993.39	12918.86	11626.73	-5923.30	1641763.39	14350159.64	39°31'1.0467"N	80°59'42.8091"W	13048.61	333.003	0.15	-0.03	0.15	

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Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

WELLPATH DATA (226 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
19488.00	90.650	340.690	5992.42	13013.85	11716.37	-5954.75	1641731.95	14350249.24	39°31'1.9327"N	80°59'43.2103"W	13142.77	333.058	0.15	0.14	0.05	
19583.00	90.800	340.290	5991.22	13108.84	11805.90	-5986.48	1641700.24	14350338.74	39°31'2.8176"N	80°59'43.6151"W	13236.97	333.112	0.45	0.16	-0.42	
19677.00	90.920	340.540	5989.81	13202.82	11894.46	-6017.98	1641668.75	14350427.25	39°31'3.6928"N	80°59'44.0170"W	13330.20	333.163	0.29	0.13	0.27	
19771.00	90.680	340.610	5988.50	13296.81	11983.10	-6049.24	1641637.50	14350515.86	39°31'4.5689"N	80°59'44.4159"W	13423.41	333.215	0.27	-0.26	0.07	
19866.00	90.370	340.380	5987.63	13391.80	12072.64	-6080.96	1641605.80	14350605.37	39°31'5.4539"N	80°59'44.8205"W	13517.64	333.266	0.41	-0.33	-0.24	
19960.00	90.710	340.870	5986.74	13485.79	12161.31	-6112.14	1641574.63	14350694.00	39°31'6.3303"N	80°59'45.2184"W	13610.87	333.316	0.63	0.36	0.52	
20054.00	90.620	340.800	5985.65	13579.78	12250.10	-6143.00	1641543.78	14350782.75	39°31'7.2078"N	80°59'45.6121"W	13704.06	333.368	0.12	-0.10	-0.07	
20149.00	90.400	340.790	5984.81	13674.78	12339.81	-6174.25	1641512.54	14350872.43	39°31'8.0944"N	80°59'46.0108"W	13798.27	333.419	0.23	-0.23	-0.01	
20243.00	90.620	340.930	5983.97	13768.77	12428.61	-6205.07	1641481.74	14350961.19	39°31'8.9721"N	80°59'46.4040"W	13891.48	333.469	0.28	0.23	0.15	
20338.00	90.680	340.290	5982.89	13863.76	12518.21	-6236.60	1641450.21	14351050.76	39°31'9.8577"N	80°59'46.8063"W	13985.74	333.517	0.68	0.06	-0.67	
20432.00	90.740	340.220	5981.73	13957.75	12606.68	-6268.36	1641418.47	14351139.19	39°31'10.7321"N	80°59'47.2115"W	14079.09	333.562	0.10	0.06	-0.07	
20527.00	91.080	340.940	5980.22	14052.73	12696.26	-6299.94	1641386.90	14351228.74	39°31'11.6174"N	80°59'47.6144"W	14173.37	333.609	0.84	0.36	0.76	
20622.00	90.710	340.570	5978.73	14147.72	12785.94	-6331.25	1641355.61	14351318.38	39°31'12.5038"N	80°59'48.0139"W	14267.62	333.657	0.55	-0.39	-0.39	
20716.00	91.170	341.020	5977.19	14241.70	12874.70	-6362.17	1641324.70	14351407.10	39°31'13.3810"N	80°59'48.4084"W	14360.88	333.703	0.68	0.49	0.48	
20810.00	90.830	340.470	5975.55	14335.69	12963.43	-6393.16	1641293.72	14351495.79	39°31'14.2579"N	80°59'48.8038"W	14454.17	333.749	0.69	-0.36	-0.59	
20838.00†	90.830	340.470	5975.15	14363.68	12989.81	-6402.52	1641284.36	14351522.17	39°31'14.5187"N	80°59'48.9233"W	14481.97	333.762	0.00	0.00	0.00	Projected MD at TD: 20838'

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Actual Wellpath Report

Sophie Unit 1H AWP Proj: 20838'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

HOLE & CASING SECTIONS - Ref Wellbore: Sophie Unit 1H AWB Ref Wellpath: Sophie Unit 1H AWP Proj: 20838'										
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]	
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	0.17	0.00	
17.5in Open Hole	130.00	375.00	245.00	130.00	375.00	0.17	0.00	0.96	0.07	
13.375in Casing Surface	30.00	355.00	325.00	30.00	355.00	0.00	0.00	0.90	0.02	
12.25in Open Hole	375.00	3180.00	2805.00	375.00	3060.28	0.96	0.07	-415.44	-635.50	
9.625in Casing Intermediate	30.00	3149.00	3119.00	30.00	3030.31	0.00	0.00	-410.95	-628.95	
8.75in Open Hole	3180.00	5555.00	2375.00	3060.28	5303.33	-415.44	-635.50	-849.86	-1279.55	
8.5in Open Hole	5555.00	20838.00	15283.00	5303.33	5975.15	-849.86	-1279.55	12989.81	-6402.52	
5.5in Casing Production	30.00	20818.00	20788.00	30.00	5975.44	0.00	0.00	12970.96	-6395.83	

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Sophie Unit 1H AWP Proj: 20838'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sophie Unit 1H BHL Rev-3	5993.23	12991.70	-6399.59	1641287.29	14351524.06	39°31'14.5374"N	80°59'48.8859"W	point
Sophie Unit 1H POE Rev-3	6022.00	-534.77	-1660.75	1646024.23	14338003.02	39°29'0.8444"N	80°58'48.4538"W	point
Sophie Unit 1H AZI Rev-3	6064.15	178.70	-2009.71	1645675.41	14338716.21	39°29'7.8967"N	80°58'52.9025"W	point
Sophie Unit 1H LP Rev-3	6067.00	-314.58	-1786.63	1645898.40	14338223.13	39°29'3.0210"N	80°58'50.0587"W	point
Sophie Unit 1H 50' L/R Hard Line	6250.00	6583.41	-4204.03	1643481.97	14345118.34	39°30'11.2004"N	80°59'20.8793"W	rectangle
2D Rectangle 13548 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Sophie Unit 1H AWB Ref Wellpath: Sophie Unit 1H AWP Proj: 20838'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	300.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-300')	Sophie Unit 1H AWB	5/8/2023
300.00	3103.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (300')(417'-3103')	Sophie Unit 1H AWB	5/8/2023
3103.00	5479.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3103')(3214'-5479')	Sophie Unit 1H AWB	6/12/2023
5479.00	20838.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5479')(5532'-20810')	Sophie Unit 1H AWB	6/12/2023

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Sophie Unit 1H AWP Proj: 20838'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Sophie Unit 1H
Field	Tyler	API	47-095-02850-0000
Facility	Roma Lou Pad	Wellbore	Sophie Unit 1H AWB
Slot	Slot #10		

COMMENTS
<p>Wellpath general comments API: 47-095-02850-0000 BH Job #: 111790795 Rig: H&P 519 Duration: 6/14/2023-6/20/2023 Gyrodatta MS Gyro <17-1/2"> (100'-300') APS EM <12-1/4"> (300')(417'-3103') APS EM <8-3/4"> (3103')(3214'-5479') BH AT Curve <8-1/2"> (5479')(5532'-20810') Sycamore: 6158' MD Middlesex: 6304' MD Burkett: 6449' MD Marcellus POE: 6513' MD Projected MD at TD: 20838'</p>

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