



ANTERO RESOURCES CORPORATION



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

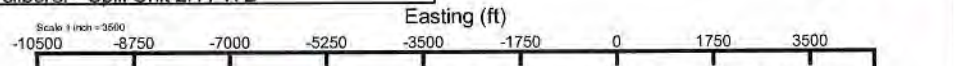
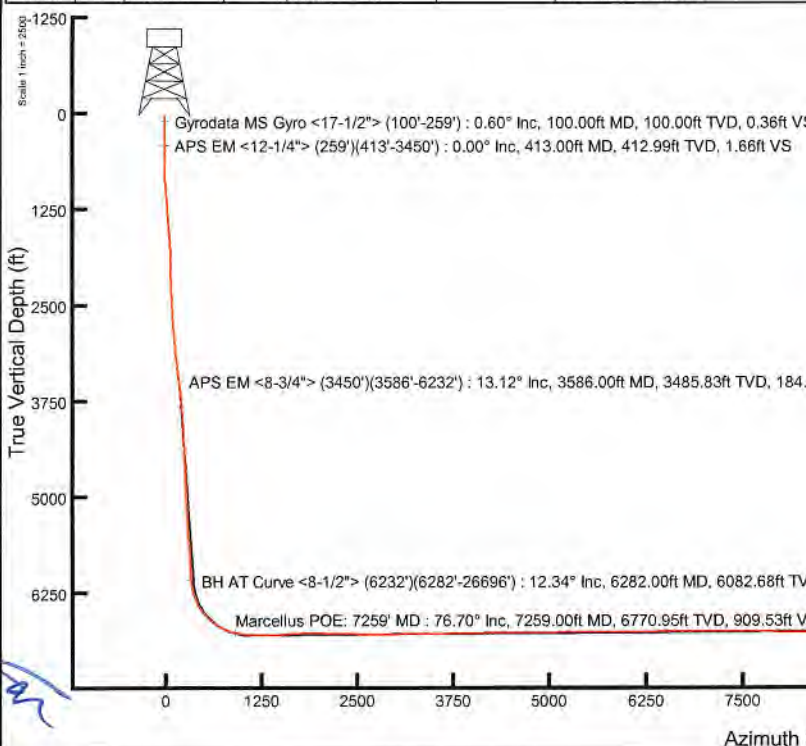
Slot: Slot F
 Well: Spili Unit 2H
 Wellbore: Spili Unit 2H PWB

Plot reference wellpath in Spili Unit 2H 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: 1263 feet	Coordinates are in feet referenced to Slat
Mean Sea Level to Ground level (At Slot: Slot F) -1233 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edyost on 2023-04-28; Database: WA_MPL_EASTERHUS_Dat

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Ed Yost Pad	1686484.970	14361467.860	39°32'52.4411"N	80°50'11.6780"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot F	30.81	32.77	1686517.730	14361498.660
Comment: Spili Unit 2H				
H&P 519 (RKB) to Ground level (At Slot: Slot F)				30ft
Mean Sea Level to Ground level (At Slot: Slot F)				-1233ft
H&P 519 (RKB) to Mean Sea Level				1263ft

Well Profile Data								
Design Comment	MD (ft)	Inc. (")	Az. (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3450.00	14.080	41.540	3363.64	384.12	606.81	0.75	167.71
Proj. to Bottom	3524.00	14.080	41.540	3425.42	397.60	618.75	0.00	176.61
Drill Out	3604.00	14.080	41.540	3503.01	412.16	631.86	0.00	186.23
End of 3D Arc	3812.97	15.534	56.934	3705.12	446.47	671.98	2.00	205.69
Curve KOP	6342.79	15.534	56.934	6142.53	816.12	1239.76	0.00	372.30
POE	7226.85	73.921	341.165	6773.00	1352.62	1196.16	8.00	894.16
Landing Pt.	7432.84	90.400	341.165	6801.00	1545.09	1130.50	8.00	1097.52
BHL	26711.00	90.400	341.165	6666.41	19790.47	-5093.31	0.00	20375.21

Well Data			
Slot	Well	Wellbore	Wellpath
Slot F	Spili Unit 2H	Spili Unit 2H AWB	Spili Unit 2H AWP Proj: 26721'
Slot F	Spili Unit 2H	Spili Unit 2H PWB	Spili Unit 2H PWP Rev-B.0



User specified (HDGM) Dip: 66.30° Field: 51582 nT
 Magnetic North is 7.43 degrees West of True North (at 4/18/2023)
 Grid North is 0.10 degrees East of True North
 To correct azimuth from True to Grid subtract 0.10 degrees
 To correct azimuth from Magnetic to Grid subtract 7.53 degrees

API: 47-095-02844-0000
 BH Job #: 111701972
 Rig: H&P 519
 Duration: 4/21/2023-4/26/2023

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Marcellus POE: 7259' MD : 6770.95ft TVD, 1371.17ft N, 1202.94ft E
 BH AT Curve <8-1/2"> (6232')(6282'-26696') : 6082.68ft TVD, 784.20ft N, 1241.81ft E
 APS EM <8-3/4"> (3450')(3586'-6232') : 3485.83ft TVD, 408.65ft N, 627.30ft E
 APS EM <12-1/4"> (259')(413'-3450') : 412.99ft TVD, 1.55ft N, 0.61ft W
 Gyrodatta MS Gyro <17-1/2"> (100'-259') : 100.00ft TVD, 0.36ft N, 0.04ft W
 Slot F

Projected MD at TD: 26721' : 89.66° Inc, 26721.00ft MD, 6718.82ft TVD, 20364.35ft VS

Vertical Section (ft)
 Azimuth 341.17° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999602	Report Generated	4/28/2023 at 7:05:26 PM
Convergence at slot	0.10° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	30.81	32.77	1686517.73	14361498.66	39°32'52.7450"N	80°50'11.2590"W
Facility Reference Pt			1686484.97	14361467.86	39°32'52.4411"N	80°50'11.6780"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1263.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1263.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot F)	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	341.17°

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Slot	Slot F		

WELLPATH DATA (288 stations) † = interpolated, ‡ = extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.00	353.760	0.00	0.00	0.00	0.00	1686517.73	14361498.66	39°32'52.7450"N	80°50'11.2590"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	353.760	30.00	0.00	0.00	0.00	1686517.73	14361498.66	39°32'52.7450"N	80°50'11.2590"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.60	353.760	100.00	0.36	0.36	-0.04	1686517.69	14361499.02	39°32'52.7486"N	80°50'11.2595"W	0.37	353.760	0.86	0.86	0.00	Gyrodata MS Gyro <17-1/2"> (100'-259')
200.00	0.28	334.140	200.00	1.11	1.10	-0.20	1686517.53	14361499.76	39°32'52.7559"N	80°50'11.2615"W	1.12	349.571	0.35	-0.32	-19.62	
259.00	0.25	312.550	259.00	1.37	1.32	-0.36	1686517.37	14361499.98	39°32'52.7581"N	80°50'11.2635"W	1.37	344.720	0.18	-0.05	-36.59	
413.00	0.00	352.470	412.99	1.66	1.55	-0.61	1686517.12	14361500.21	39°32'52.7603"N	80°50'11.2667"W	1.66	338.548	0.16	-0.16	0.00	APS EM <12-1/4"> (259')(413'-3450')
503.00	1.24	77.580	502.99	1.55	1.76	0.34	1686518.07	14361500.42	39°32'52.7624"N	80°50'11.2546"W	1.79	11.024	1.38	1.38	0.00	
591.00	3.31	75.930	590.91	1.24	2.58	3.74	1686521.47	14361501.24	39°32'52.7704"N	80°50'11.2112"W	4.54	55.373	2.35	2.35	-1.87	
680.00	5.43	68.830	679.65	1.20	4.73	10.16	1686527.88	14361503.38	39°32'52.7915"N	80°50'11.1292"W	11.20	65.046	2.45	2.38	-7.98	
769.00	7.21	60.160	768.11	2.43	9.03	18.93	1686536.65	14361507.68	39°32'52.8339"N	80°50'11.0171"W	20.97	64.506	2.26	2.00	-9.74	
859.00	9.72	54.820	857.12	5.65	16.22	30.04	1686547.76	14361514.87	39°32'52.9047"N	80°50'10.8751"W	34.14	61.640	2.92	2.79	-5.93	
946.00	12.03	50.770	942.55	10.88	26.18	43.07	1686560.78	14361524.83	39°32'53.0030"N	80°50'10.7086"W	50.40	58.703	2.80	2.66	-4.66	
1036.00	15.00	50.650	1030.05	18.23	39.50	59.34	1686577.05	14361538.15	39°32'53.1343"N	80°50'10.5005"W	71.29	56.350	3.30	3.30	-0.13	
1131.00	17.37	54.590	1121.28	26.59	55.52	80.41	1686598.11	14361554.15	39°32'53.2922"N	80°50'10.2312"W	97.71	55.379	2.75	2.49	4.15	
1225.00	19.12	59.720	1210.56	33.65	71.41	105.14	1686622.83	14361570.04	39°32'53.4489"N	80°50'9.9151"W	127.10	55.817	2.53	1.86	5.46	
1320.00	18.93	60.430	1300.37	39.61	86.86	131.98	1686649.66	14361585.49	39°32'53.6011"N	80°50'9.5721"W	158.00	56.651	0.32	-0.20	0.75	
1414.00	17.96	58.090	1389.54	45.73	102.05	157.55	1686675.22	14361600.66	39°32'53.7507"N	80°50'9.2454"W	187.71	57.068	1.30	-1.03	-2.49	
1509.00	17.04	56.180	1480.15	52.65	117.54	181.55	1686699.20	14361616.15	39°32'53.9034"N	80°50'8.9387"W	216.27	57.080	1.14	-0.97	-2.01	
1603.00	16.85	56.800	1570.06	59.59	132.66	204.39	1686722.04	14361631.27	39°32'54.0524"N	80°50'8.6468"W	243.67	57.014	0.28	-0.20	0.66	
1698.00	16.92	54.790	1660.97	66.91	148.17	227.21	1686744.84	14361646.77	39°32'54.2053"N	80°50'8.3551"W	271.25	56.890	0.62	0.07	-2.12	
1792.00	16.96	59.680	1750.90	73.50	162.98	250.22	1686767.85	14361661.57	39°32'54.3513"N	80°50'8.0610"W	298.62	56.922	1.52	0.04	5.20	
1886.00	15.78	68.700	1841.10	76.78	174.55	273.96	1686791.59	14361673.14	39°32'54.4651"N	80°50'7.7576"W	324.84	57.498	2.98	-1.26	9.60	
1981.00	15.46	70.450	1932.59	77.50	183.48	297.93	1686815.54	14361682.06	39°32'54.5530"N	80°50'7.4514"W	349.90	58.374	0.60	-0.34	1.84	
2075.00	15.48	67.660	2023.19	78.42	192.44	321.34	1686838.94	14361691.02	39°32'54.6411"N	80°50'7.1524"W	374.56	59.085	0.79	0.02	-2.97	
2170.00	15.61	64.950	2114.71	80.58	202.67	344.65	1686862.24	14361701.25	39°32'54.7418"N	80°50'6.8546"W	399.82	59.543	0.78	0.14	-2.85	
2264.00	16.09	63.590	2205.14	83.67	213.82	367.77	1686885.35	14361712.39	39°32'54.8516"N	80°50'6.5592"W	425.41	59.827	0.65	0.51	-1.45	
2359.00	16.59	61.990	2296.30	87.57	226.04	391.54	1686909.11	14361724.61	39°32'54.9719"N	80°50'6.2555"W	452.10	60.001	0.71	0.53	-1.68	
2453.00	15.34	62.520	2386.67	91.58	238.08	414.42	1686931.98	14361736.65	39°32'55.0905"N	80°50'5.9632"W	477.94	60.123	1.34	-1.33	0.56	
2548.00	13.93	60.640	2478.59	95.56	249.49	435.53	1686953.09	14361748.05	39°32'55.2029"N	80°50'5.6933"W	501.93	60.194	1.57	-1.48	-1.98	
2642.00	14.12	58.860	2569.79	100.07	260.96	455.21	1686972.75	14361759.52	39°32'55.3159"N	80°50'5.4419"W	524.70	60.175	0.50	0.20	-1.89	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

WELLPATH DATA (288 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	14.360	57.420	2661.87	105.34	273.30	475.05	1686992.59	14361771.85	39°32'55.4375"N	80°50'5.1883"W	548.06	60.088	0.45	0.25	-1.52	
2831.00	14.170	54.910	2752.97	111.34	286.19	494.29	1687011.82	14361784.74	39°32'55.5646"N	80°50'4.9424"W	571.16	59.929	0.69	-0.20	-2.67	
2925.00	13.860	53.210	2844.17	118.03	299.55	512.72	1687030.24	14361798.09	39°32'55.6962"N	80°50'4.7068"W	593.81	59.705	0.55	-0.33	-1.81	
3020.00	13.590	51.640	2936.46	125.27	313.29	530.58	1687048.10	14361811.82	39°32'55.8317"N	80°50'4.4784"W	616.17	59.440	0.48	-0.28	-1.65	
3114.00	13.390	49.640	3027.87	132.96	327.19	547.54	1687065.05	14361825.72	39°32'55.9688"N	80°50'4.2617"W	637.85	59.139	0.54	-0.21	-2.13	
3209.00	14.240	48.070	3120.12	141.58	342.12	564.61	1687082.12	14361840.65	39°32'56.1161"N	80°50'4.0434"W	660.18	58.787	0.98	0.89	-1.65	
3303.00	14.510	46.240	3211.18	151.08	357.99	581.72	1687099.22	14361856.51	39°32'56.2726"N	80°50'3.8246"W	683.05	58.392	0.56	0.29	-1.95	
3398.00	14.190	43.070	3303.21	161.58	374.73	598.27	1687115.76	14361873.24	39°32'56.4377"N	80°50'3.6130"W	705.94	57.939	0.89	-0.34	-3.34	
3450.00	14.080	41.540	3353.64	167.71	384.12	606.81	1687124.30	14361882.63	39°32'56.5304"N	80°50'3.5037"W	718.17	57.666	0.75	-0.21	-2.94	
3586.00	13.120	38.080	3485.83	184.31	408.65	627.30	1687144.78	14361907.15	39°32'56.7725"N	80°50'3.2415"W	748.67	56.918	0.92	-0.71	-2.54	APS EM <8-3/4"> (3450')(3586'-6232')
3680.00	14.370	43.490	3577.14	195.56	425.52	641.91	1687159.39	14361924.01	39°32'56.9389"N	80°50'3.0546"W	770.14	56.460	1.91	1.33	5.76	
3775.00	16.300	52.930	3668.77	205.21	442.11	660.67	1687178.13	14361940.59	39°32'57.1025"N	80°50'2.8148"W	794.95	56.210	3.32	2.03	9.94	
3869.00	16.250	56.520	3759.00	212.66	457.32	682.16	1687199.62	14361955.79	39°32'57.2524"N	80°50'2.5400"W	821.27	56.162	1.07	-0.05	3.82	
3962.00	15.430	53.510	3848.47	219.71	471.85	702.96	1687220.41	14361970.32	39°32'57.3957"N	80°50'2.2742"W	846.64	56.129	1.25	-0.88	-3.24	
4057.00	15.520	56.580	3940.03	226.74	486.37	723.73	1687241.17	14361984.83	39°32'57.5388"N	80°50'2.0087"W	871.98	56.098	0.87	0.09	3.23	
4153.00	15.270	57.010	4032.58	233.07	500.33	745.06	1687262.49	14361998.79	39°32'57.6763"N	80°50'1.7362"W	897.46	56.118	0.29	-0.26	0.45	
4247.00	16.120	60.560	4123.08	238.50	513.48	766.80	1687284.23	14362011.93	39°32'57.8060"N	80°50'1.4582"W	922.85	56.192	1.36	0.90	3.78	
4342.00	16.180	60.640	4214.33	243.35	526.45	789.83	1687307.24	14362024.90	39°32'57.9337"N	80°50'1.1640"W	949.20	56.315	0.07	0.06	0.08	
4436.00	15.480	59.060	4304.77	248.38	539.32	812.00	1687329.41	14362037.77	39°32'58.0605"N	80°50'0.8806"W	974.79	56.408	0.87	-0.74	-1.68	
4533.00	16.460	62.870	4398.02	253.08	552.25	835.33	1687352.73	14362050.68	39°32'58.1878"N	80°50'0.5825"W	1001.38	56.531	1.48	1.01	3.93	
4627.00	17.680	65.350	4487.88	256.45	564.27	860.16	1687377.55	14362062.71	39°32'58.3062"N	80°50'0.2652"W	1028.73	56.735	1.51	1.30	2.64	
4722.00	16.360	61.580	4578.72	260.14	576.66	885.04	1687402.42	14362075.09	39°32'58.4282"N	80°49'59.9473"W	1056.33	56.913	1.81	-1.39	-3.97	
4816.00	14.770	57.790	4669.27	265.12	589.35	906.82	1687424.19	14362087.77	39°32'58.5532"N	80°49'59.6690"W	1081.51	56.980	2.01	-1.69	-4.03	
4910.00	15.070	62.040	4760.11	269.83	601.46	927.76	1687445.12	14362099.88	39°32'58.6726"N	80°49'59.4015"W	1105.66	57.045	1.21	0.32	4.52	
5005.00	15.810	64.960	4851.68	273.19	612.73	950.39	1687467.74	14362111.15	39°32'58.7835"N	80°49'59.1122"W	1130.79	57.190	1.13	0.78	3.07	
5099.00	14.940	62.370	4942.32	276.43	623.77	972.73	1687490.07	14362122.18	39°32'58.8922"N	80°49'58.8268"W	1155.55	57.330	1.18	-0.93	-2.76	
5193.00	16.350	63.390	5032.83	280.07	635.32	995.29	1687512.63	14362133.72	39°32'59.0059"N	80°49'58.5385"W	1180.78	57.449	1.53	1.50	1.09	
5288.00	17.800	64.640	5123.64	283.53	647.53	1020.37	1687537.69	14362145.93	39°32'59.1261"N	80°49'58.2181"W	1208.49	57.601	1.67	1.53	1.32	
5382.00	16.290	61.350	5213.51	287.42	660.00	1044.93	1687562.24	14362158.40	39°32'59.2490"N	80°49'57.9043"W	1235.91	57.722	1.91	-1.61	-3.50	
5477.00	15.390	59.260	5304.90	292.29	672.83	1067.45	1687584.76	14362171.22	39°32'59.3754"N	80°49'57.6164"W	1261.81	57.776	1.12	-0.95	-2.20	

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WELLPATH DATA (288 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
5571.00	16.340	58.240	5395.32	297.82	686.17	1089.42	1687606.71	14362184.55	39°32'59.5068"N	80°49'57.3357"W	1287.50	57.795	1.05	1.01	-1.09	
5666.00	16.240	55.800	5486.51	304.33	700.67	1111.77	1687629.05	14362199.05	39°32'59.6497"N	80°49'57.0501"W	1314.14	57.780	0.73	-0.11	-2.57	
5760.00	15.140	52.540	5577.01	311.74	715.52	1132.38	1687649.66	14362213.90	39°32'59.7961"N	80°49'56.7865"W	1339.50	57.712	1.50	-1.17	-3.47	
5854.00	15.640	56.680	5667.64	318.83	729.95	1152.72	1687669.99	14362228.32	39°32'59.9383"N	80°49'56.5266"W	1364.40	57.656	1.28	0.53	4.40	
5949.00	14.360	56.820	5759.40	324.96	743.43	1173.28	1687690.54	14362241.80	39°33'0.0712"N	80°49'56.2638"W	1388.98	57.640	1.35	-1.35	0.16	
6043.00	12.650	60.440	5850.80	329.76	754.89	1191.99	1687709.24	14362253.25	39°33'0.1841"N	80°49'56.0247"W	1410.92	57.654	2.03	-1.82	3.85	
6138.00	14.780	61.950	5943.09	333.64	765.72	1211.73	1687728.98	14362264.08	39°33'0.2908"N	80°49'55.7724"W	1433.40	57.710	2.27	2.24	1.59	
6232.00	14.480	57.340	6034.04	338.37	777.70	1232.21	1687749.45	14362276.05	39°33'0.4088"N	80°49'55.5107"W	1457.11	57.742	1.28	-0.32	-4.90	
6282.00	12.340	54.220	6082.68	341.42	784.20	1241.81	1687759.04	14362282.55	39°33'0.4729"N	80°49'55.3880"W	1468.69	57.728	4.52	-4.28	-6.24	BH AT Curve <8-1/2"> (6232')(6282'-26696')
6354.00	14.130	43.960	6152.77	347.69	795.03	1254.15	1687771.38	14362293.37	39°33'0.5796"N	80°49'55.2301"W	1484.91	57.629	4.09	2.49	-14.25	
6449.00	21.890	28.390	6243.10	365.05	819.00	1270.66	1687787.88	14362317.34	39°33'0.8163"N	80°49'55.0189"W	1511.73	57.196	9.55	8.17	-16.39	
6543.00	26.650	21.240	6328.78	393.11	854.10	1286.64	1687803.85	14362352.42	39°33'1.1628"N	80°49'54.8140"W	1544.32	56.423	5.94	5.06	-7.61	
6637.00	32.220	10.790	6410.67	431.08	898.43	1298.98	1687816.20	14362396.73	39°33'1.6007"N	80°49'54.6553"W	1579.41	55.331	8.04	5.93	-11.12	
6722.00†	35.945	0.058	6481.12	474.44	945.69	1303.26	1687820.47	14362443.98	39°33'2.0678"N	80°49'54.5997"W	1610.22	54.034	8.31	4.38	-12.63	Sycamore: 6722' MD
6731.00	36.390	359.040	6488.39	479.48	951.00	1303.22	1687820.42	14362449.28	39°33'2.1203"N	80°49'54.6001"W	1613.31	53.880	8.31	4.95	-11.31	
6826.00	43.990	349.350	6560.98	539.10	1011.75	1296.63	1687813.84	14362510.01	39°33'2.7208"N	80°49'54.6827"W	1644.66	52.035	10.34	8.00	-10.20	
6872.00†	47.478	347.718	6593.08	571.77	1044.03	1290.07	1687807.28	14362542.27	39°33'3.0399"N	80°49'54.7657"W	1659.60	51.017	8.00	7.58	-3.55	Middlesex: 6872' MD
6920.00	51.140	346.200	6624.37	607.97	1079.47	1281.85	1687799.06	14362577.70	39°33'3.3903"N	80°49'54.8698"W	1675.82	49.899	8.00	7.63	-3.16	
7015.00	58.190	346.220	6679.28	685.12	1154.69	1263.39	1687780.61	14362652.89	39°33'4.1341"N	80°49'55.1037"W	1711.56	47.574	7.42	7.42	0.02	
7028.00†	59.198	346.217	6686.04	696.18	1165.48	1260.74	1687777.97	14362663.67	39°33'4.2407"N	80°49'55.1372"W	1716.92	47.248	7.76	7.76	-0.02	Burkett: 7028' MD
7065.00†	62.068	346.209	6704.18	728.30	1196.79	1253.06	1687770.29	14362694.97	39°33'4.5504"N	80°49'55.2346"W	1732.76	46.316	7.76	7.76	-0.02	Tully: 7065' MD
7109.00	65.480	346.200	6723.62	767.61	1235.12	1243.65	1687760.88	14362733.28	39°33'4.9293"N	80°49'55.3538"W	1752.76	45.197	7.76	7.76	-0.02	
7204.00	73.570	342.690	6756.83	856.38	1320.75	1219.73	1687736.98	14362818.88	39°33'5.7761"N	80°49'55.6570"W	1797.81	42.723	9.19	8.52	-3.69	
7259.00†	76.695	340.475	6770.95	909.53	1371.17	1202.94	1687720.18	14362869.28	39°33'6.2747"N	80°49'55.8702"W	1824.05	41.261	6.89	5.68	-4.03	Marcellus POE: 7259' MD
7299.00	78.980	338.900	6779.37	948.61	1407.84	1189.36	1687706.62	14362905.94	39°33'6.6374"N	80°49'56.0427"W	1842.98	40.192	6.89	5.71	-3.94	
7393.00	84.270	339.900	6793.06	1041.53	1494.86	1156.66	1687673.93	14362992.92	39°33'7.4980"N	80°49'56.4581"W	1890.10	37.731	5.73	5.63	1.06	
7488.00	90.890	338.280	6797.07	1136.33	1583.47	1122.80	1687640.08	14363081.50	39°33'8.3744"N	80°49'56.8882"W	1941.15	35.339	7.17	6.97	-1.71	
7582.00	89.690	340.820	6796.59	1230.28	1671.54	1089.96	1687607.25	14363169.53	39°33'9.2454"N	80°49'57.3054"W	1995.51	33.107	2.99	-1.28	2.70	
7677.00	89.600	339.580	6797.18	1325.26	1760.92	1057.78	1687575.09	14363258.87	39°33'10.1294"N	80°49'57.7141"W	2054.20	30.993	1.31	-0.09	-1.31	
7773.00	89.780	340.930	6797.70	1421.25	1851.27	1025.35	1687542.67	14363349.19	39°33'11.0229"N	80°49'58.1259"W	2116.26	28.980	1.42	0.19	1.41	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

WELLPATH DATA (288 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
7867.00	92.310	340.680	6795.99	1515.22	1940.02	994.45	1687511.78	14363437.91	39°33'11.9007"N	80°49'58.5183"W	2180.05	27.140	2.70	2.69	-0.27	
7962.00	95.270	340.510	6789.71	1610.00	2029.42	962.96	1687480.31	14363527.27	39°33'12.7848"N	80°49'58.9182"W	2246.29	25.384	3.12	3.12	-0.18	
8151.00	91.110	337.680	6779.19	1798.52	2205.64	895.64	1687413.01	14363703.42	39°33'14.5277"N	80°49'59.7735"W	2380.55	22.100	2.66	-2.20	-1.50	
8245.00	90.830	335.480	6777.60	1892.20	2291.88	858.29	1687375.67	14363789.63	39°33'15.3807"N	80°50'0.2483"W	2447.32	20.530	2.36	-0.30	-2.34	
8340.00	89.140	334.530	6777.63	1986.65	2377.98	818.15	1687335.55	14363875.69	39°33'16.2323"N	80°50'0.7588"W	2514.79	18.986	2.04	-1.78	-1.00	
8434.00	88.550	336.350	6779.52	2080.15	2463.45	779.09	1687296.50	14363961.13	39°33'17.0778"N	80°50'1.2554"W	2583.71	17.550	2.03	-0.63	1.94	
8529.00	88.680	339.490	6781.82	2174.96	2551.45	743.39	1687260.82	14364049.09	39°33'17.9482"N	80°50'1.7091"W	2657.54	16.244	3.31	0.14	3.31	
8623.00	88.710	340.050	6783.96	2268.91	2639.63	710.89	1687228.34	14364137.23	39°33'18.8202"N	80°50'2.1218"W	2733.68	15.073	0.60	0.03	0.60	
8717.00	89.140	341.180	6785.72	2362.88	2728.28	679.70	1687197.16	14364225.85	39°33'19.6970"N	80°50'2.5180"W	2811.67	13.989	1.29	0.46	1.20	
8812.00	89.230	340.990	6787.07	2457.87	2818.14	648.91	1687166.38	14364315.68	39°33'20.5857"N	80°50'2.9090"W	2891.89	12.967	0.22	0.09	-0.20	
8906.00	88.400	342.680	6789.02	2551.84	2907.43	619.61	1687137.09	14364404.93	39°33'21.4687"N	80°50'3.2810"W	2972.73	12.030	2.00	-0.88	1.80	
9001.00	88.860	344.560	6791.29	2646.73	2998.55	592.83	1687110.32	14364496.01	39°33'22.3697"N	80°50'3.6207"W	3056.59	11.183	2.04	0.48	1.98	
9095.00	91.720	345.980	6790.81	2740.47	3089.45	568.93	1687086.43	14364586.87	39°33'23.2685"N	80°50'3.9237"W	3141.39	10.434	3.40	3.04	1.51	
9189.00	90.030	342.560	6789.38	2834.31	3179.90	543.45	1687060.97	14364677.29	39°33'24.1629"N	80°50'4.2468"W	3226.00	9.698	4.06	-1.80	-3.64	
9284.00	89.940	344.050	6789.40	2929.24	3270.89	516.16	1687033.69	14364768.24	39°33'25.0627"N	80°50'4.5931"W	3311.37	8.968	1.57	-0.09	1.57	
9379.00	90.860	344.290	6788.74	3024.10	3362.29	490.25	1687007.78	14364859.60	39°33'25.9665"N	80°50'4.9218"W	3397.84	8.296	1.00	0.97	0.25	
9474.00	90.990	344.420	6787.20	3118.94	3453.75	464.63	1686982.18	14364951.03	39°33'26.8709"N	80°50'5.2467"W	3484.87	7.662	0.19	0.14	0.14	
9568.00	90.180	343.070	6786.24	3212.84	3543.99	438.32	1686955.88	14365041.23	39°33'27.7632"N	80°50'5.5805"W	3570.99	7.051	1.67	-0.86	-1.44	
9663.00	90.430	343.120	6785.74	3307.79	3634.88	410.70	1686928.27	14365132.09	39°33'28.6620"N	80°50'5.9311"W	3658.01	6.446	0.27	0.26	0.05	
9757.00	90.800	344.490	6784.73	3401.68	3725.14	384.49	1686902.06	14365222.32	39°33'29.5546"N	80°50'6.2637"W	3744.93	5.893	1.51	0.39	1.46	
9851.00	89.510	344.370	6784.48	3495.52	3815.69	359.26	1686876.84	14365312.83	39°33'30.4500"N	80°50'6.5837"W	3832.57	5.379	1.38	-1.37	-0.13	
9945.00	91.730	344.870	6783.46	3589.34	3906.32	334.33	1686851.92	14365403.41	39°33'31.3461"N	80°50'6.8998"W	3920.60	4.892	2.42	2.36	0.53	
10040.00	91.750	342.450	6780.57	3684.20	3997.43	307.61	1686825.22	14365494.49	39°33'32.2470"N	80°50'7.2387"W	4009.25	4.400	2.55	0.02	-2.55	
10135.00	91.260	341.850	6778.08	3779.15	4087.82	278.51	1686796.12	14365584.85	39°33'33.1410"N	80°50'7.6083"W	4097.30	3.898	0.82	-0.52	-0.63	
10229.00	90.990	342.080	6776.23	3873.13	4177.19	249.41	1686767.04	14365674.18	39°33'34.0247"N	80°50'7.9777"W	4184.63	3.417	0.38	-0.29	0.24	
10324.00	91.630	340.460	6774.06	3968.10	4267.13	218.91	1686736.55	14365764.09	39°33'34.9142"N	80°50'8.3649"W	4272.74	2.937	1.83	0.67	-1.71	
10418.00	90.220	341.710	6772.54	4062.08	4356.04	188.45	1686706.10	14365852.96	39°33'35.7934"N	80°50'8.7519"W	4360.11	2.477	2.00	-1.50	1.33	
10513.00	91.020	341.860	6771.52	4157.07	4446.27	158.75	1686676.42	14365943.16	39°33'36.6858"N	80°50'9.1289"W	4449.11	2.045	0.86	0.84	0.16	
10607.00	90.280	342.450	6770.45	4251.05	4535.74	129.95	1686647.63	14366032.59	39°33'37.5705"N	80°50'9.4945"W	4537.60	1.641	1.01	-0.79	0.63	
10702.00	89.970	342.290	6770.24	4346.03	4626.28	101.18	1686618.87	14366123.09	39°33'38.4659"N	80°50'9.8598"W	4627.39	1.253	0.37	-0.33	-0.17	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

WELLPATH DATA (288 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
10796.00	91.050	342.310	6769.41	4440.00	4715.83	72.60	1686590.30	14366212.60	39°33'39.3514"N	80°50'10.2226"W	4716.39	0.882	1.15	1.15	0.02	
10891.00	90.430	341.400	6768.18	4534.99	4806.09	43.02	1686560.73	14366302.83	39°33'40.2440"N	80°50'10.5982"W	4806.29	0.513	1.16	-0.65	-0.96	
10985.00	90.150	342.330	6767.70	4628.98	4895.42	13.76	1686531.48	14366392.13	39°33'41.1274"N	80°50'10.9697"W	4895.44	0.161	1.03	-0.30	0.99	
11080.00	91.290	341.550	6766.51	4723.96	4985.73	-15.69	1686502.05	14366482.40	39°33'42.0205"N	80°50'11.3436"W	4985.76	359.820	1.45	1.20	-0.82	
11174.00	90.000	341.760	6765.45	4817.95	5074.95	-45.27	1686472.48	14366571.58	39°33'42.9028"N	80°50'11.7192"W	5075.15	359.489	1.39	-1.37	0.22	
11269.00	90.310	341.780	6765.19	4912.94	5165.18	-74.99	1686442.77	14366661.77	39°33'43.7951"N	80°50'12.0966"W	5165.72	359.168	0.33	0.33	0.02	
11363.00	90.650	340.270	6764.41	5006.94	5254.06	-105.55	1686412.22	14366750.63	39°33'44.6741"N	80°50'12.4847"W	5255.12	358.849	1.65	0.36	-1.61	
11458.00	90.800	341.280	6763.20	5101.93	5343.76	-136.83	1686380.95	14366840.28	39°33'45.5611"N	80°50'12.8820"W	5345.51	358.533	1.07	0.16	1.06	
11553.00	89.940	340.380	6762.59	5196.92	5433.49	-168.03	1686349.77	14366929.98	39°33'46.4486"N	80°50'13.2783"W	5436.08	358.229	1.31	-0.91	-0.95	
11647.00	89.540	341.650	6763.02	5290.92	5522.37	-198.60	1686319.20	14367018.82	39°33'47.3275"N	80°50'13.6666"W	5525.94	357.940	1.42	-0.43	1.35	
11742.00	91.970	340.560	6761.77	5385.90	5612.24	-229.36	1686288.46	14367108.65	39°33'48.2162"N	80°50'14.0573"W	5616.92	357.660	2.80	2.56	-1.15	
11837.00	89.940	340.170	6760.18	5480.87	5701.69	-261.28	1686256.55	14367198.08	39°33'49.1009"N	80°50'14.4628"W	5707.68	357.376	2.18	-2.14	-0.41	
11931.00	90.520	340.040	6759.80	5574.86	5790.08	-293.27	1686224.58	14367286.43	39°33'49.9751"N	80°50'14.8691"W	5797.51	357.100	0.63	0.62	-0.14	
12025.00	90.710	341.030	6758.80	5668.84	5878.70	-324.59	1686193.27	14367375.02	39°33'50.8515"N	80°50'15.2670"W	5887.66	356.840	1.07	0.20	1.05	
12120.00	90.590	340.830	6757.72	5763.84	5968.48	-355.63	1686162.25	14367464.76	39°33'51.7394"N	80°50'15.6612"W	5979.07	356.590	0.25	-0.13	-0.21	
12214.00	89.820	341.630	6757.38	5857.83	6057.48	-385.87	1686132.01	14367553.72	39°33'52.6195"N	80°50'16.0454"W	6069.76	356.355	1.18	-0.82	0.85	
12309.00	90.950	340.470	6756.74	5952.83	6147.33	-416.72	1686101.18	14367643.53	39°33'53.5080"N	80°50'16.4372"W	6161.44	356.122	1.70	1.19	-1.22	
12403.00	89.940	340.330	6756.01	6046.82	6235.88	-448.25	1686069.66	14367732.05	39°33'54.3837"N	80°50'16.8378"W	6251.97	355.889	1.08	-1.07	-0.15	
12497.00	90.550	341.330	6755.61	6140.81	6324.66	-479.12	1686038.80	14367820.80	39°33'55.2618"N	80°50'17.2299"W	6342.79	355.668	1.25	0.65	1.06	
12592.00	90.060	340.670	6755.11	6235.81	6414.49	-510.05	1686007.89	14367910.58	39°33'56.1501"N	80°50'17.6227"W	6434.73	355.454	0.87	-0.52	-0.69	
12687.00	90.120	340.940	6754.96	6330.81	6504.21	-541.28	1685976.67	14368000.27	39°33'57.0373"N	80°50'18.0195"W	6526.69	355.243	0.29	0.06	0.28	
12781.00	90.280	341.570	6754.63	6424.81	6593.22	-571.49	1685946.47	14368089.24	39°33'57.9176"N	80°50'18.4032"W	6617.94	355.046	0.69	0.17	0.67	
12875.00	90.150	341.300	6754.28	6518.80	6682.33	-601.41	1685916.56	14368178.32	39°33'58.7988"N	80°50'18.7833"W	6709.34	354.857	0.32	-0.14	-0.29	
12970.00	90.340	341.490	6753.87	6613.80	6772.36	-631.72	1685886.26	14368268.31	39°33'59.6892"N	80°50'19.1682"W	6801.76	354.671	0.28	0.20	0.20	
13064.00	90.180	341.610	6753.44	6707.80	6861.53	-661.47	1685856.52	14368357.45	39°34'0.5710"N	80°50'19.5460"W	6893.34	354.494	0.21	-0.17	0.13	
13159.00	89.690	341.080	6753.55	6802.80	6951.54	-691.86	1685826.15	14368447.42	39°34'1.4611"N	80°50'19.9320"W	6985.88	354.316	0.76	-0.52	-0.56	
13253.00	89.910	341.130	6753.88	6896.80	7040.47	-722.30	1685795.72	14368536.32	39°34'2.3406"N	80°50'20.3186"W	7077.42	354.142	0.24	0.23	0.05	
13348.00	89.970	340.410	6753.98	6991.79	7130.17	-753.59	1685764.44	14368625.98	39°34'3.2276"N	80°50'20.7161"W	7169.88	353.967	0.76	0.06	-0.76	
13442.00	90.280	341.500	6753.77	7085.79	7219.02	-784.26	1685733.78	14368714.80	39°34'4.1063"N	80°50'21.1057"W	7261.50	353.800	1.21	0.33	1.16	
13537.00	89.660	340.550	6753.82	7180.79	7308.86	-815.15	1685702.91	14368804.60	39°34'4.9947"N	80°50'21.4981"W	7354.17	353.636	1.19	-0.65	-1.00	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Spili Unit 2H
Field	Tyler		API	47-095-02844-0000
Facility	Ed Yost Pad		Wellbore	Spili Unit 2H AWB
Slot	Slot F			

WELLPATH DATA (288 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
13632.00	90.060	341.080	6754.05	7275.79	7398.58	-846.37	1685671.70	14368894.29	39°34'5.8821"N	80°50'21.8947"W	7446.83	353.474	0.70	0.42	0.56	
13727.00	89.850	341.140	6754.13	7370.79	7488.47	-877.13	1685640.96	14368984.13	39°34'6.7709"N	80°50'22.2854"W	7539.66	353.319	0.23	-0.22	0.06	
13821.00	90.400	341.550	6753.92	7464.79	7577.53	-907.19	1685610.90	14369073.16	39°34'7.6517"N	80°50'22.6673"W	7631.64	353.173	0.73	0.59	0.44	
13915.00	89.660	339.930	6753.88	7558.78	7666.26	-938.20	1685579.91	14369161.86	39°34'8.5292"N	80°50'23.0612"W	7723.46	353.023	1.89	-0.79	-1.72	
14009.00	89.660	341.190	6754.43	7652.77	7754.90	-969.48	1685548.64	14369250.46	39°34'9.4058"N	80°50'23.4587"W	7815.26	352.874	1.34	0.00	1.34	
14104.00	90.150	341.950	6754.59	7747.77	7845.03	-999.52	1685518.61	14369340.55	39°34'10.2971"N	80°50'23.8401"W	7908.44	352.739	0.95	0.52	0.80	
14198.00	89.880	341.720	6754.57	7841.76	7934.34	-1028.82	1685489.32	14369429.83	39°34'11.1803"N	80°50'24.2123"W	8000.76	352.612	0.38	-0.29	-0.24	
14293.00	89.690	341.400	6754.92	7936.76	8024.46	-1058.87	1685459.28	14369519.92	39°34'12.0715"N	80°50'24.5940"W	8094.02	352.483	0.39	-0.20	-0.34	
14387.00	89.540	340.700	6755.55	8030.75	8113.36	-1089.39	1685428.77	14369608.78	39°34'12.9507"N	80°50'24.9818"W	8186.18	352.353	0.76	-0.16	-0.74	
14481.00	89.750	340.680	6756.14	8124.75	8202.07	-1120.48	1685397.70	14369697.46	39°34'13.8280"N	80°50'25.3767"W	8278.26	352.221	0.22	0.22	-0.02	
14576.00	90.220	341.450	6756.16	8219.75	8291.93	-1151.30	1685366.89	14369787.28	39°34'14.7166"N	80°50'25.7683"W	8371.48	352.095	0.95	0.49	0.81	
14670.00	90.000	341.510	6755.98	8313.75	8381.06	-1181.16	1685337.04	14369876.38	39°34'15.5980"N	80°50'26.1475"W	8463.89	351.978	0.24	-0.23	0.06	
14764.00	89.690	340.490	6756.23	8407.74	8469.94	-1211.76	1685306.45	14369965.22	39°34'16.4770"N	80°50'26.5363"W	8556.18	351.858	1.13	-0.33	-1.09	
14859.00	89.630	340.510	6756.80	8502.74	8559.49	-1243.48	1685274.75	14370054.73	39°34'17.3626"N	80°50'26.9392"W	8649.34	351.734	0.07	-0.06	0.02	
14953.00	89.510	340.870	6757.50	8596.73	8648.20	-1274.56	1685243.68	14370143.41	39°34'18.2398"N	80°50'27.3342"W	8741.62	351.616	0.40	-0.13	0.38	
15047.00	90.030	341.220	6757.88	8690.73	8737.10	-1305.09	1685213.16	14370232.27	39°34'19.1190"N	80°50'27.7221"W	8834.04	351.504	0.67	0.55	0.37	
15142.00	89.570	341.690	6758.21	8785.73	8827.17	-1335.31	1685182.96	14370322.30	39°34'20.0097"N	80°50'28.1059"W	8927.59	351.398	0.69	-0.48	0.49	
15236.00	89.630	341.370	6758.87	8879.72	8916.32	-1365.09	1685153.19	14370411.42	39°34'20.8913"N	80°50'28.4841"W	9020.22	351.296	0.35	0.06	-0.34	
15425.00	89.820	341.450	6759.78	9068.72	9095.46	-1425.34	1685092.96	14370500.49	39°34'22.6628"N	80°50'29.2495"W	9206.46	351.094	0.11	0.10	0.04	
15519.00	89.750	340.880	6760.13	9162.72	9184.43	-1455.68	1685062.63	14370679.42	39°34'23.5426"N	80°50'29.6350"W	9299.07	350.994	0.61	-0.07	-0.61	
15614.00	89.850	341.350	6760.46	9257.72	9274.31	-1486.43	1685031.89	14370769.27	39°34'24.4315"N	80°50'30.0257"W	9392.67	350.894	0.51	0.11	0.49	
15709.00	89.780	341.260	6760.77	9352.72	9364.30	-1516.88	1685001.45	14370859.22	39°34'25.3214"N	80°50'30.4125"W	9486.36	350.799	0.12	-0.07	-0.09	
15803.00	89.750	341.010	6761.15	9446.72	9453.25	-1547.28	1684971.07	14370948.13	39°34'26.2011"N	80°50'30.7986"W	9579.04	350.704	0.27	-0.03	-0.27	
15898.00	89.720	341.290	6761.59	9541.71	9543.15	-1577.97	1684940.39	14371038.00	39°34'27.0901"N	80°50'31.1886"W	9672.73	350.611	0.30	-0.03	0.29	
15992.00	90.000	341.890	6761.82	9635.71	9632.34	-1607.66	1684910.72	14371127.15	39°34'27.9721"N	80°50'31.5657"W	9765.58	350.525	0.70	0.30	0.64	
16181.00	90.090	341.350	6761.87	9824.70	9811.70	-1667.25	1684851.15	14371306.44	39°34'29.7458"N	80°50'32.3227"W	9952.34	350.356	0.29	0.05	-0.29	
16276.00	90.120	341.250	6761.50	9919.70	9901.68	-1697.71	1684820.70	14371396.39	39°34'30.6356"N	80°50'32.7097"W	10046.17	350.271	0.11	0.03	-0.11	
16370.00	90.000	340.960	6761.40	10013.70	9990.62	-1728.15	1684790.27	14371485.29	39°34'31.5151"N	80°50'33.0964"W	10138.98	350.186	0.33	-0.13	-0.31	
16464.00	90.000	341.340	6761.40	10107.70	10079.58	-1758.52	1684759.91	14371574.21	39°34'32.3949"N	80°50'33.4823"W	10231.83	350.104	0.40	0.00	0.40	
16558.00	89.880	340.920	6761.50	10201.70	10168.52	-1788.92	1684729.52	14371663.12	39°34'33.2745"N	80°50'33.8685"W	10324.68	350.022	0.46	-0.13	-0.45	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

WELLPATH DATA (288 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
16653.00	90.090	341.290	6761.52	10296.70	10258.40	-1819.69	1684698.77	14371752.97	39°34'34.1633"N	80°50'34.2594"W	10418.55	349.941	0.45	0.22	0.39	
16747.00	90.340	341.610	6761.17	10390.70	10347.52	-1849.59	1684668.88	14371842.05	39°34'35.0446"N	80°50'34.6393"W	10511.52	349.866	0.43	0.27	0.34	
16842.00	89.910	341.170	6760.96	10485.70	10437.55	-1879.91	1684638.57	14371932.04	39°34'35.9349"N	80°50'35.0245"W	10605.50	349.790	0.65	-0.45	-0.46	
16936.00	90.090	341.320	6760.96	10579.70	10526.56	-1910.13	1684608.36	14372021.01	39°34'36.8151"N	80°50'35.4085"W	10698.46	349.715	0.25	0.19	0.16	
17031.00	89.910	340.780	6760.96	10674.70	10616.41	-1940.98	1684577.53	14372110.83	39°34'37.7037"N	80°50'35.8005"W	10792.39	349.639	0.60	-0.19	-0.57	
17125.00	90.220	341.060	6760.86	10768.70	10705.25	-1971.71	1684546.81	14372199.63	39°34'38.5822"N	80°50'36.1909"W	10885.31	349.564	0.44	0.33	0.30	
17220.00	90.090	341.340	6760.60	10863.70	10795.18	-2002.32	1684516.21	14372289.53	39°34'39.4715"N	80°50'36.5799"W	10979.31	349.492	0.32	-0.14	0.29	
17314.00	90.060	341.270	6760.48	10957.70	10884.22	-2032.45	1684486.09	14372378.53	39°34'40.3520"N	80°50'36.9627"W	11072.36	349.423	0.08	-0.03	-0.07	
17408.00	90.490	340.770	6760.03	11051.69	10973.11	-2063.02	1684455.53	14372467.38	39°34'41.2311"N	80°50'37.3512"W	11165.35	349.352	0.70	0.46	-0.53	
17503.00	89.690	340.950	6759.88	11146.69	11062.85	-2094.17	1684424.39	14372557.09	39°34'42.1186"N	80°50'37.7470"W	11259.32	349.281	0.86	-0.84	0.19	
17597.00	90.340	340.970	6759.85	11240.69	11151.71	-2124.84	1684393.74	14372645.92	39°34'42.9973"N	80°50'38.1366"W	11352.34	349.212	0.69	0.69	0.02	
17692.00	91.230	341.660	6758.55	11335.68	11241.69	-2155.27	1684363.32	14372735.86	39°34'43.8871"N	80°50'38.5233"W	11446.43	349.147	1.19	0.94	0.73	
17786.00	89.910	340.440	6757.62	11429.67	11330.59	-2185.79	1684332.81	14372824.72	39°34'44.7663"N	80°50'38.9111"W	11539.50	349.081	1.91	-1.40	-1.30	
17881.00	91.410	341.130	6756.52	11524.66	11420.29	-2217.05	1684301.56	14372914.39	39°34'45.6533"N	80°50'39.3084"W	11633.50	349.014	1.74	1.58	0.73	
17975.00	90.920	341.780	6754.61	11618.64	11509.39	-2246.94	1684271.68	14373003.45	39°34'46.5344"N	80°50'39.6882"W	11726.67	348.953	0.87	-0.52	0.69	
18070.00	89.690	341.040	6754.11	11713.63	11599.43	-2277.23	1684241.41	14373093.45	39°34'47.4248"N	80°50'40.0729"W	11820.85	348.893	1.51	-1.29	-0.78	
18164.00	90.590	341.050	6753.88	11807.63	11688.33	-2307.76	1684210.89	14373182.32	39°34'48.3040"N	80°50'40.4609"W	11913.98	348.831	0.96	0.96	0.01	
18259.00	90.650	341.720	6752.85	11902.63	11778.36	-2338.08	1684180.58	14373272.31	39°34'49.1942"N	80°50'40.8462"W	12008.18	348.772	0.71	0.06	0.71	
18353.00	90.000	340.780	6752.31	11996.62	11867.36	-2368.30	1684150.38	14373361.28	39°34'50.0744"N	80°50'41.2301"W	12101.37	348.714	1.22	-0.69	-1.00	
18448.00	90.680	340.860	6751.75	12091.62	11957.09	-2399.51	1684119.18	14373450.97	39°34'50.9617"N	80°50'41.6268"W	12195.47	348.653	0.72	0.72	0.08	
18542.00	90.370	340.870	6750.89	12185.61	12045.89	-2430.32	1684088.38	14373539.74	39°34'51.8399"N	80°50'42.0183"W	12288.61	348.593	0.33	-0.33	0.01	
18636.00	90.620	341.310	6750.08	12279.61	12134.81	-2460.78	1684057.93	14373628.63	39°34'52.7193"N	80°50'42.4054"W	12381.81	348.537	0.54	0.27	0.47	
18731.00	90.250	340.800	6749.36	12374.61	12224.66	-2491.63	1684027.10	14373718.44	39°34'53.6078"N	80°50'42.7973"W	12476.00	348.480	0.66	-0.39	-0.54	
18826.00	90.180	341.220	6749.00	12469.60	12314.49	-2522.54	1683996.20	14373808.23	39°34'54.4961"N	80°50'43.1902"W	12570.20	348.424	0.45	-0.07	0.44	
18920.00	90.250	341.040	6748.65	12563.60	12403.44	-2552.94	1683965.81	14373897.14	39°34'55.3757"N	80°50'43.5765"W	12663.45	348.370	0.21	0.07	-0.19	
19014.00	90.000	342.110	6748.44	12657.60	12492.62	-2582.65	1683936.11	14373986.29	39°34'56.2576"N	80°50'43.9540"W	12756.79	348.320	1.17	-0.27	1.14	
19109.00	89.940	340.990	6748.49	12752.60	12582.74	-2612.71	1683906.06	14374076.37	39°34'57.1487"N	80°50'44.3360"W	12851.13	348.270	1.18	-0.06	-1.18	
19203.00	90.310	341.040	6748.29	12846.60	12671.62	-2643.29	1683875.49	14374165.22	39°34'58.0277"N	80°50'44.7246"W	12944.38	348.217	0.40	0.39	0.05	
19298.00	90.060	340.940	6747.98	12941.59	12761.44	-2674.24	1683844.56	14374255.00	39°34'58.9160"N	80°50'45.1179"W	13038.63	348.165	0.28	-0.26	-0.11	
19393.00	90.250	341.030	6747.72	13036.59	12851.26	-2705.19	1683813.62	14374344.78	39°34'59.8042"N	80°50'45.5112"W	13132.89	348.113	0.22	0.20	0.09	

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Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Spili Unit 2H
Field	Tyler		API	47-095-02844-0000
Facility	Ed Yost Pad		Wellbore	Spili Unit 2H AWB
Slot	Slot F			

WELLPATH DATA (288 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
19487.00	90.030	341.240	6747.49	13130.59	12940.21	-2735.58	1683783.24	14374433.70	39°35'0.6838"N	80°50'45.8975"W	13226.20	348.063	0.32	-0.23	0.22	
19582.00	89.970	340.960	6747.49	13225.59	13030.09	-2766.36	1683752.48	14374523.54	39°35'1.5726"N	80°50'46.2885"W	13320.50	348.014	0.30	-0.06	-0.29	
19677.00	90.460	341.230	6747.14	13320.59	13119.96	-2797.14	1683721.71	14374613.38	39°35'2.4614"N	80°50'46.6797"W	13414.82	347.965	0.59	0.52	0.28	
19771.00	90.250	341.180	6746.55	13414.59	13208.95	-2827.42	1683691.44	14374702.33	39°35'3.3413"N	80°50'47.0645"W	13508.17	347.918	0.23	-0.22	-0.05	
19866.00	90.310	340.900	6746.09	13509.59	13298.79	-2858.29	1683660.59	14374792.14	39°35'4.2298"N	80°50'47.4568"W	13602.49	347.870	0.30	0.06	-0.29	
19961.00	90.220	341.600	6745.65	13604.59	13388.75	-2888.82	1683630.06	14374882.06	39°35'5.1194"N	80°50'47.8448"W	13696.86	347.824	0.74	-0.09	0.74	
20055.00	89.820	340.840	6745.62	13698.59	13477.74	-2919.08	1683599.81	14374971.02	39°35'5.9994"N	80°50'48.2294"W	13790.23	347.779	0.91	-0.43	-0.81	
20149.00	90.090	340.550	6745.69	13792.58	13566.46	-2950.16	1683568.75	14375059.70	39°35'6.8768"N	80°50'48.6244"W	13883.52	347.731	0.42	0.29	-0.31	
20244.00	90.520	341.660	6745.19	13887.58	13656.33	-2980.92	1683538.00	14375149.54	39°35'7.7656"N	80°50'49.0154"W	13977.89	347.687	1.25	0.45	1.17	
20338.00	90.030	341.380	6744.73	13981.58	13745.49	-3010.72	1683508.21	14375238.65	39°35'8.6472"N	80°50'49.3940"W	14071.35	347.645	0.60	-0.52	-0.30	
20433.00	90.520	341.140	6744.28	14076.57	13835.45	-3041.24	1683477.71	14375328.58	39°35'9.5368"N	80°50'49.7819"W	14165.76	347.603	0.57	0.52	-0.25	
20527.00	90.120	340.980	6743.75	14170.57	13924.38	-3071.75	1683447.21	14375417.45	39°35'10.4160"N	80°50'50.1696"W	14259.15	347.560	0.46	-0.43	-0.17	
20622.00	89.970	341.440	6743.68	14265.57	14014.29	-3102.35	1683416.62	14375507.35	39°35'11.3054"N	80°50'50.5585"W	14353.57	347.518	0.51	-0.16	0.48	
20716.00	89.940	341.370	6743.75	14359.57	14103.39	-3132.32	1683386.66	14375596.41	39°35'12.1864"N	80°50'50.9394"W	14447.04	347.478	0.08	-0.03	-0.07	
20811.00	90.180	341.240	6743.65	14454.57	14193.37	-3162.77	1683356.22	14375686.36	39°35'13.0763"N	80°50'51.3264"W	14541.49	347.438	0.29	0.25	-0.14	
20905.00	89.910	341.120	6743.58	14548.57	14282.35	-3193.10	1683325.91	14375775.30	39°35'13.9561"N	80°50'51.7118"W	14634.94	347.398	0.31	-0.29	-0.13	
20999.00	89.910	340.780	6743.73	14642.57	14371.20	-3223.78	1683295.24	14375864.12	39°35'14.8348"N	80°50'52.1017"W	14728.34	347.357	0.36	0.00	-0.36	
21094.00	91.020	341.470	6742.96	14737.56	14461.09	-3254.51	1683264.52	14375953.97	39°35'15.7237"N	80°50'52.4923"W	14822.78	347.317	1.38	1.17	0.73	
21188.00	89.850	341.500	6742.24	14831.56	14550.22	-3284.36	1683234.68	14376043.06	39°35'16.6051"N	80°50'52.8717"W	14916.29	347.280	1.25	-1.24	0.03	
21283.00	89.850	341.090	6742.49	14926.56	14640.20	-3314.82	1683204.23	14376133.01	39°35'17.4949"N	80°50'53.2588"W	15010.78	347.242	0.43	0.00	-0.43	
21378.00	90.120	341.180	6742.52	15021.56	14730.10	-3345.54	1683173.53	14376222.87	39°35'18.3839"N	80°50'53.6493"W	15105.24	347.204	0.30	0.28	0.09	
21472.00	89.820	340.440	6742.57	15115.56	14818.87	-3376.44	1683142.64	14376311.61	39°35'19.2618"N	80°50'54.0420"W	15198.66	347.164	0.85	-0.32	-0.79	
21567.00	90.580	341.110	6742.23	15210.55	14908.57	-3407.72	1683111.37	14376401.28	39°35'20.1488"N	80°50'54.4396"W	15293.07	347.125	1.07	0.80	0.71	
21661.00	89.570	341.320	6742.11	15304.55	14997.56	-3437.99	1683081.11	14376490.23	39°35'21.0288"N	80°50'54.8243"W	15386.58	347.089	1.10	-1.07	0.22	
21755.00	90.550	340.680	6742.01	15398.55	15086.44	-3468.59	1683050.52	14376579.07	39°35'21.9077"N	80°50'55.2133"W	15480.05	347.052	1.25	1.04	-0.68	
21850.00	90.860	341.810	6740.84	15493.54	15176.39	-3499.13	1683019.99	14376668.98	39°35'22.7972"N	80°50'55.6015"W	15574.55	347.017	1.23	0.33	1.19	
21944.00	90.310	341.120	6739.88	15587.53	15265.51	-3529.01	1682990.13	14376758.07	39°35'23.6785"N	80°50'55.9812"W	15668.11	346.983	0.94	-0.59	-0.73	
22038.00	90.000	340.370	6739.63	15681.53	15354.25	-3560.01	1682959.14	14376846.77	39°35'24.5580"N	80°50'56.3753"W	15761.55	346.946	0.86	-0.33	-0.80	
22133.00	91.020	341.410	6738.78	15776.52	15444.01	-3591.11	1682928.05	14376936.50	39°35'25.4437"N	80°50'56.7706"W	15856.02	346.910	1.53	1.07	1.09	
22227.00	89.970	341.030	6737.97	15870.52	15533.00	-3621.37	1682897.81	14377025.45	39°35'26.3237"N	80°50'57.1552"W	15949.56	346.876	1.19	-1.12	-0.40	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

WELLPATH DATA (288 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
22322.00	90.620	341.310	6737.48	15965.51	15622.91	-3652.03	1682867.16	14377115.33	39°35'27.2128"N	80°50'57.5449"W	16044.09	346.843	0.74	0.68	0.29	
22416.00	90.800	341.930	6736.32	16059.50	15712.11	-3681.67	1682837.53	14377204.49	39°35'28.0949"N	80°50'57.9216"W	16137.69	346.812	0.69	0.19	0.66	
22510.00	90.180	341.020	6735.51	16153.50	15801.23	-3711.53	1682807.68	14377293.58	39°35'28.9762"N	80°50'58.3012"W	16231.28	346.781	1.17	-0.66	-0.97	
22605.00	90.490	341.430	6734.96	16248.50	15891.18	-3742.11	1682777.12	14377383.49	39°35'29.8656"N	80°50'58.6898"W	16325.83	346.749	0.54	0.33	0.43	
22700.00	90.060	340.560	6734.50	16343.49	15981.00	-3773.05	1682746.19	14377473.27	39°35'30.7538"N	80°50'59.0830"W	16420.36	346.716	1.02	-0.45	-0.92	
22794.00	90.550	341.210	6734.00	16437.49	16069.81	-3803.83	1682715.42	14377562.05	39°35'31.6321"N	80°50'59.4743"W	16513.87	346.683	0.87	0.52	0.69	
22889.00	90.340	341.430	6733.26	16532.49	16159.80	-3834.25	1682685.01	14377652.01	39°35'32.5221"N	80°50'59.8611"W	16608.45	346.652	0.32	-0.22	0.23	
22983.00	90.370	341.210	6732.68	16626.48	16248.85	-3864.36	1682654.92	14377741.02	39°35'33.4026"N	80°51'0.2437"W	16702.05	346.622	0.24	0.03	-0.23	
23078.00	90.180	341.060	6732.23	16721.48	16338.75	-3895.08	1682624.21	14377830.88	39°35'34.2916"N	80°51'0.6342"W	16796.61	346.591	0.25	-0.20	-0.16	
23172.00	90.550	341.390	6731.63	16815.48	16427.74	-3925.33	1682593.97	14377919.84	39°35'35.1716"N	80°51'1.0187"W	16890.20	346.561	0.53	0.39	0.35	
23266.00	90.400	341.070	6730.85	16909.48	16516.74	-3955.57	1682563.74	14378008.80	39°35'36.0517"N	80°51'1.4032"W	16983.79	346.532	0.38	-0.16	-0.34	
23361.00	90.090	341.140	6730.44	17004.48	16606.62	-3986.34	1682532.98	14378098.64	39°35'36.9405"N	80°51'1.7943"W	17078.37	346.502	0.33	-0.33	0.07	
23455.00	90.580	341.000	6729.89	17098.47	16695.53	-4016.83	1682502.50	14378187.52	39°35'37.8198"N	80°51'2.1819"W	17171.95	346.472	0.54	0.52	-0.15	
23549.00	90.920	340.620	6728.66	17192.46	16784.30	-4047.73	1682471.62	14378276.26	39°35'38.6976"N	80°51'2.5747"W	17265.48	346.441	0.54	0.36	-0.40	
23738.00	90.310	340.970	6726.63	17381.45	16962.77	-4109.90	1682409.48	14378454.66	39°35'40.4625"N	80°51'3.3650"W	17453.56	346.380	0.37	-0.32	0.19	
23833.00	89.970	340.820	6726.40	17476.45	17052.54	-4140.99	1682378.40	14378544.39	39°35'41.3502"N	80°51'3.7603"W	17548.13	346.351	0.39	-0.36	-0.16	
23927.00	90.650	341.010	6725.89	17570.44	17141.37	-4171.72	1682347.67	14378633.18	39°35'42.2286"N	80°51'4.1510"W	17641.71	346.322	0.75	0.72	0.20	
24022.00	90.250	341.200	6725.15	17665.44	17231.25	-4202.49	1682316.92	14378723.02	39°35'43.1174"N	80°51'4.5421"W	17736.31	346.294	0.47	-0.42	0.20	
24116.00	90.370	341.240	6724.64	17759.44	17320.24	-4232.75	1682286.67	14378811.98	39°35'43.9974"N	80°51'4.9268"W	17829.95	346.267	0.13	0.13	0.04	
24211.00	90.150	340.790	6724.21	17854.44	17410.07	-4263.65	1682255.78	14378901.78	39°35'44.8858"N	80°51'5.3197"W	17924.55	346.239	0.53	-0.23	-0.47	
24305.00	90.800	340.980	6723.43	17948.43	17498.89	-4294.43	1682225.01	14378990.56	39°35'45.7640"N	80°51'5.7110"W	18018.14	346.211	0.72	0.69	0.20	
24400.00	90.490	340.980	6722.36	18043.42	17588.70	-4325.39	1682194.07	14379080.33	39°35'46.6521"N	80°51'6.1046"W	18112.74	346.184	0.33	-0.33	0.00	
24494.00	90.830	341.370	6721.27	18137.42	17677.66	-4355.72	1682163.75	14379169.26	39°35'47.5319"N	80°51'6.4902"W	18206.37	346.158	0.55	0.36	0.41	
24589.00	90.030	341.530	6720.56	18232.41	17767.72	-4385.94	1682133.54	14379259.28	39°35'48.4225"N	80°51'6.8743"W	18301.05	346.134	0.86	-0.84	0.17	
24683.00	89.630	340.580	6720.84	18326.41	17856.63	-4416.46	1682103.03	14379348.15	39°35'49.3016"N	80°51'7.2623"W	18394.68	346.108	1.10	-0.43	-1.01	
24778.00	90.370	341.250	6720.84	18421.41	17946.41	-4447.52	1682071.98	14379437.90	39°35'50.1894"N	80°51'7.6572"W	18489.29	346.081	1.05	0.78	0.71	
24872.00	90.030	341.230	6720.51	18515.41	18035.41	-4477.75	1682041.77	14379526.87	39°35'51.0696"N	80°51'8.0415"W	18582.96	346.057	0.36	-0.36	-0.02	
24967.00	90.250	341.410	6720.28	18610.41	18125.41	-4508.18	1682011.35	14379616.82	39°35'51.9595"N	80°51'8.4283"W	18677.64	346.033	0.30	0.23	0.19	
25061.00	90.280	341.560	6719.85	18704.41	18214.54	-4538.03	1681981.51	14379705.92	39°35'52.8409"N	80°51'8.8078"W	18771.34	346.010	0.16	0.03	0.16	
25156.00	90.370	340.870	6719.31	18799.40	18304.48	-4568.62	1681950.94	14379795.82	39°35'53.7303"N	80°51'9.1967"W	18866.01	345.986	0.73	0.09	-0.73	

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

WELLPATH DATA (288 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
25251.00	90.680	341.840	6718.44	18894.40	18394.49	-4598.99	1681920.58	14379885.80	39°35'54.6204"N	80°51'9.5828"W	18960.69	345.963	1.07	0.33	1.02	
25345.00	89.660	342.200	6718.16	18988.39	18483.90	-4628.01	1681891.57	14379975.17	39°35'55.5045"N	80°51'9.9516"W	19054.47	345.943	1.15	-1.09	0.38	
25439.00	90.090	340.600	6718.36	19082.38	18572.98	-4657.99	1681861.60	14380064.22	39°35'56.3854"N	80°51'10.3327"W	19148.17	345.921	1.76	0.46	-1.70	
25533.00	90.150	340.820	6718.17	19176.38	18661.70	-4689.04	1681830.56	14380152.91	39°35'57.2628"N	80°51'10.7276"W	19241.79	345.896	0.24	0.06	0.23	
25628.00	90.710	341.930	6717.45	19271.37	18751.73	-4719.38	1681800.24	14380242.89	39°35'58.1529"N	80°51'11.1133"W	19336.49	345.873	1.31	0.59	1.17	
25722.00	90.150	341.480	6716.75	19365.37	18840.97	-4748.89	1681770.74	14380332.10	39°35'59.0354"N	80°51'11.4883"W	19430.24	345.853	0.76	-0.60	-0.48	
25817.00	90.180	340.590	6716.47	19460.36	18930.81	-4779.76	1681739.88	14380421.91	39°35'59.9239"N	80°51'11.8809"W	19524.90	345.830	0.94	0.03	-0.94	
25911.00	90.370	341.280	6716.02	19554.36	19019.65	-4810.46	1681709.19	14380510.72	39°36'0.8024"N	80°51'12.2713"W	19618.56	345.806	0.76	0.20	0.73	
26005.00	89.940	341.500	6715.77	19648.36	19108.74	-4840.46	1681679.20	14380599.76	39°36'1.6833"N	80°51'12.6526"W	19712.28	345.785	0.51	-0.46	0.23	
26100.00	89.510	341.030	6716.22	19743.36	19198.70	-4870.97	1681648.70	14380689.69	39°36'2.5730"N	80°51'13.0406"W	19806.98	345.764	0.67	-0.45	-0.49	
26195.00	89.690	341.520	6716.89	19838.36	19288.67	-4901.47	1681618.22	14380779.63	39°36'3.4626"N	80°51'13.4283"W	19901.69	345.742	0.55	0.19	0.52	
26289.00	89.690	341.330	6717.40	19932.35	19377.78	-4931.41	1681588.29	14380868.69	39°36'4.3437"N	80°51'13.8090"W	19995.42	345.722	0.20	0.00	-0.20	
26383.00	89.970	341.060	6717.67	20026.35	19466.76	-4961.71	1681558.00	14380957.64	39°36'5.2236"N	80°51'14.1942"W	20089.13	345.701	0.41	0.30	-0.29	
26477.00	89.450	341.270	6718.15	20120.35	19555.72	-4992.06	1681527.66	14381046.57	39°36'6.1034"N	80°51'14.5801"W	20182.84	345.680	0.60	-0.55	0.22	
26572.00	90.220	340.700	6718.42	20215.35	19645.54	-5023.01	1681496.73	14381136.35	39°36'6.9915"N	80°51'14.9736"W	20277.52	345.658	1.01	0.81	-0.60	
26666.00	89.690	341.180	6718.50	20309.35	19734.38	-5053.71	1681466.04	14381225.16	39°36'7.8701"N	80°51'15.3639"W	20371.20	345.636	0.76	-0.56	0.51	
26696.00	89.660	341.260	6718.67	20339.35	19762.79	-5063.37	1681456.39	14381253.55	39°36'8.1510"N	80°51'15.4867"W	20401.11	345.630	0.28	-0.10	0.27	
26721.00‡	89.660	341.260	6718.82	20364.35	19786.46	-5071.40	1681448.36	14381277.21	39°36'8.3851"N	80°51'15.5889"W	20426.04	345.624	0.00	0.00	0.00	Projected MD at TD: 26721'

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

HOLE & CASING SECTIONS - Ref Wellbore: Spili Unit 2H AWB Ref Wellpath: Spili Unit 2H AWP Proj: 26721'

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	0.65	-0.08
17.5in Open Hole	130.00	378.00	248.00	130.00	377.99	0.65	-0.08	1.54	-0.60
13.375in Casing Surface	30.00	348.00	318.00	30.00	347.99	0.00	0.00	1.51	-0.56
12.25in Open Hole	378.00	3524.00	3146.00	377.99	3425.50	1.54	-0.60	397.53	618.32
9.625in Casing Intermediate	30.00	3494.00	3464.00	30.00	3396.35	0.00	0.00	392.11	613.76
8.75in Open Hole	3524.00	6307.00	2783.00	3425.50	6107.07	397.53	618.32	787.55	1246.13
8.5in Open Hole	6307.00	26721.00	20414.00	6107.07	6718.82	787.55	1246.13	19786.46	-5071.40
5.5in Casing Production	30.00	26701.00	26671.00	30.00	6718.70	0.00	0.00	19767.52	-5064.97

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Spili Unit 2H BHL Rev-3	6665.89	19861.55	-5117.55	1681402.22	14381352.27	39°36'9.1279"N	80°51'16.1770"W	point
Spili Unit 2H BHL Rev-4	6666.41	19790.47	-5093.31	1681426.46	14381281.22	39°36'8.4250"N	80°51'15.8687"W	point
Spili Unit 2H POE Rev-3	6773.00	1352.62	1196.16	1687713.41	14362850.74	39°33'6.0915"N	80°49'55.9572"W	point
Spili Unit 2H LP Rev-3	6801.00	1545.09	1130.50	1687647.78	14363043.13	39°33'7.9950"N	80°49'56.7908"W	point
Spili Unit 2H 50' L/R Hard Line Rev-2	7000.00	10571.54	-1948.58	1684569.93	14372065.98	39°34'37.2603"N	80°50'35.8985"W	rectangle
2D Rectangle 19481 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Spili Unit 2H AWB Ref Wellpath: Spili Unit 2H AWP Proj: 26721'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	259.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-259')	Spili Unit 2H AWB	2/13/2023
259.00	3450.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (259')(413'-3450')	Spili Unit 2H AWB	2/13/2023
3450.00	6232.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3450')(3586'-6232')	Spili Unit 2H AWB	4/18/2023
6232.00	26721.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6232')(6282'-26696')	Spili Unit 2H AWB	4/18/2023

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Actual Wellpath Report

Spili Unit 2H AWP Proj: 26721'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Spili Unit 2H
Field	Tyler	API	47-095-02844-0000
Facility	Ed Yost Pad	Wellbore	Spili Unit 2H AWB
Slot	Slot F		

COMMENTS

Wellpath general comments

API: 47-095-02844-0000

BH Job #: 111701972

Rig: H&P 519

Duration: 4/21/2023-4/26/2023

Gyrodata MS Gyro <17-1/2"> (100'-259')

APS EM <12-1/4"> (259')(413'-3450')

APS EM <8-3/4"> (3450')(3586'-6232')

BH AT Curve <8-1/2"> (6232')(6282'-26696')

Sycamore: 6722' MD

Middlesex: 6872' MD

Burkett: 7028' MD

Tully: 7065' MD

Marcellus POE: 7259' MD

Projected MD at TD: 26721'

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