



ANTERO RESOURCES CORPORATION

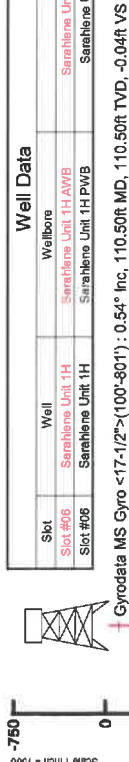
Location: Tyler County, WV
 Field: Tyler
 Facility: Meredith Pad

Slot: Slot #06
 Well: Sarahlene Unit 1H
 Wellbore: Sarahlene Unit 1H PWB

Plot reference wellpath is Sarahlene Unit 1H PWB Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1138.5 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #06): -1111 feet	Created by: dhasest on 2010-03-11
Coordinates are in feet referenced to Slot	Database: WA_MPL_EasternUS_Deafn

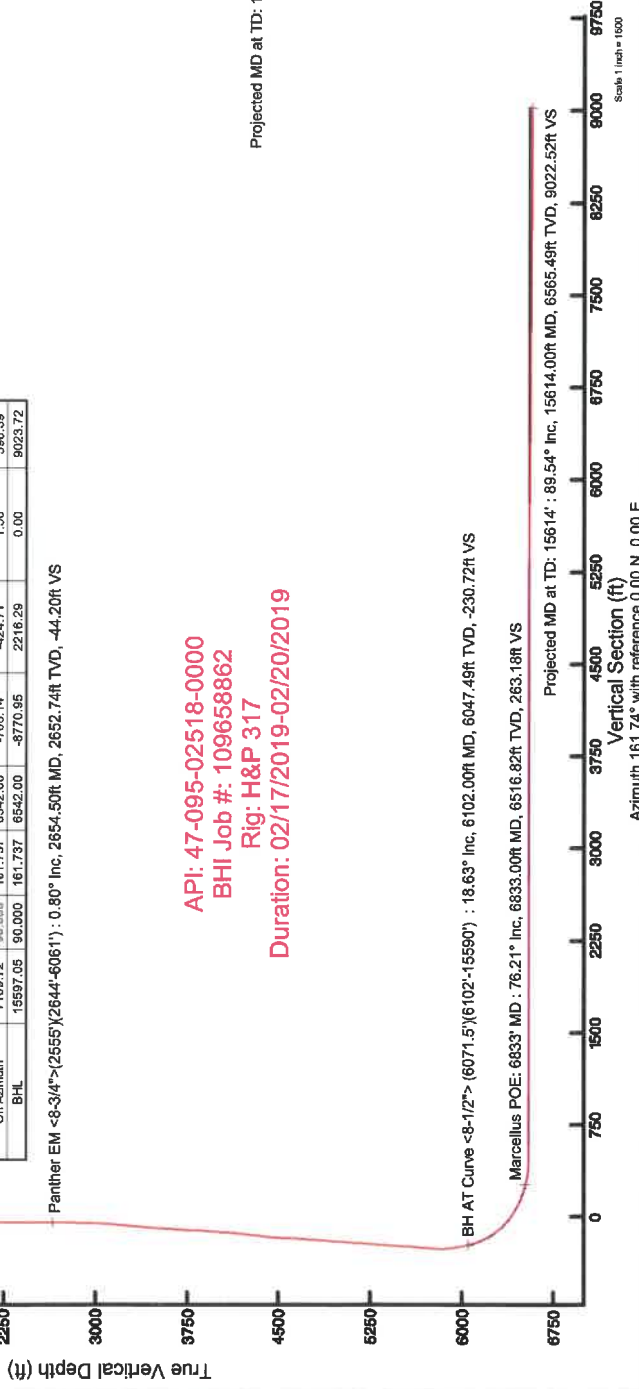
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Meredith Pad	1677162.341	1428874.288	80°52'12.070"W
Slot	Local N (ft)	Grid East (US ft)	Longitude
Slot #06	9.15	1677160.598	80°52'11.710"W
H&P 317 (RKB) to Ground level (At Slot: Slot #06)		25.5ft	
Mean Sea Level to Ground level (At Slot: Slot #06)		-1111ft	
H&P 317 (RKB) to Mean Sea Level		1138.5ft	

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Sarahlene Unit 1H	Sarahlene Unit 1H PWB	Sarahlene Unit 1H AWP Proj: 15614
Slot #06	Sarahlene Unit 1H	Sarahlene Unit 1H PWB	Sarahlene Unit 1H PWB Rev-A.0



Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)
Tie On	6071.50	17.720	208.970	6018.50	66.67	-566.51
Pro. To Bottom	6131.50	17.720	201.000	6075.67	50.15	-564.21
End of 3D Arc	6627.55	55.000	175.000	8390.52	-176.82	-571.98
POE	6837.96	75.940	164.000	8519.00	-451.95	-518.67
Landing PL	7026.36	90.000	163.887	8542.00	-831.19	-467.08
On Azimuth	7189.72	90.000	161.737	8542.00	-768.14	-424.71
BHL	15997.05	90.000	161.737	6542.00	-870.95	2216.29
					0.00	9023.72

Panther EM <8-3/4">(2555)(2644-6061) : 0.80° Inc, 2654.50ft MD, 2652.74ft TVD, -44.20ft VS



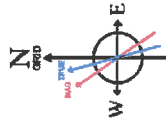
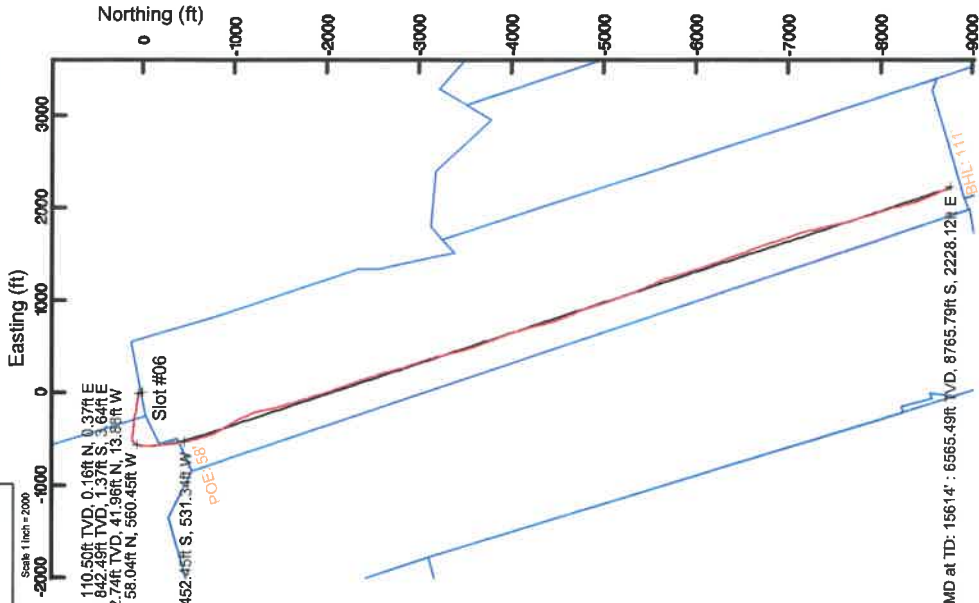
API: 47-095-02518-0000
 BHI Job #: 1096658862
 Rig: H&P 317
 Duration: 02/17/2019-02/20/2019

BH AT Curve <8-1/2">(6071.5)(6102-15590) : 18.63° Inc, 8102.00ft MD, 6047.49ft TVD, -230.72ft VS

Marcellus POE: 6633° MD : 76.21° Inc, 6633.00ft MD, 6516.82ft TVD, 263.18ft VS

Projected MD at TD: 15614° : 89.54° Inc, 15614.00ft MD, 6565.49ft TVD, 9022.52ft VS

Vertical Section (ft)
 Azimuth 161.74° with reference 0.00 N, 0.00 E



User specified (HDGM) Dip: 00.45° Field: 51892.NT
 Magnetic North is 7.64 degrees West of True North (6/21/5/2019)
 Grid North is 0.08 degrees East of True North
 To correct azimuth from Magnetic to Grid subtract 7.72 degrees



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Meredith Pad
Slot	Slot #06
Well	Sarahlene Unit 1H
Wellbore	Sarahlene Unit 1H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999602
Convergence at slot	0.08° East
Software System	WellArchitect® 5.1
User	Delaset
Report Generated	3/11/2019 at 4:57:43 PM
Database/Source file	WA_MPL_EasternUS_Defn/Sarahlene_Unit_1H_AWP_Proj_15614_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	9.15	28.27	1677190.60	39°20'54.920"N	80°52'11.710"W	
Facility Reference Pt			1677162.34	39°20'54.830"N	80°52'12.070"W	
Field Reference Pt			0.00	0°00'00.000"	85°29'19.301"W	

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	H&P 317 (RKB)
MD Reference Pt	H&P 317 (RKB)
Field Vertical Reference	Mean Sea Level
	H&P 317 (RKB) to Facility Vertical Datum
	H&P 317 (RKB) to Mean Sea Level
	H&P 317 (RKB) to Ground Level at Slot (Slot #06)
	Section Origin
	Section Azimuth
	25.50ft
	1136.50ft
	25.50ft
	N 0.00, E 0.00 ft
	161.74°



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

WELLPATH DATA (204 stations) † = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
0.00†	0.000	66.710	0.00	0.00	0.00	0.00	1677190.60	14288883.44	39°20'54.920"N	80°52'11.710"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	66.710	25.50	0.00	0.00	0.00	1677190.60	14288883.44	39°20'54.920"N	80°52'11.710"W	0.00	0.000	0.00	0.00	0.00	
110.50	0.540	66.710	110.50	-0.04	0.16	0.37	1677190.97	14288883.60	39°20'54.922"N	80°52'11.705"W	0.40	66.710	0.64	0.64	78.48	Gyrodata MS Gyro <17-1/2">(100'-801')
135.50	0.370	96.630	135.50	-0.01	0.20	0.56	1677191.15	14288883.64	39°20'54.922"N	80°52'11.703"W	0.59	70.625	1.15	-0.68	119.68	
160.50	0.420	83.060	160.50	0.04	0.20	0.73	1677191.33	14288883.64	39°20'54.922"N	80°52'11.701"W	0.75	74.819	0.42	0.20	-54.28	
185.50	0.530	83.160	185.50	0.08	0.22	0.93	1677191.53	14288883.66	39°20'54.922"N	80°52'11.696"W	0.96	76.605	0.44	0.44	0.40	
210.50	0.620	89.830	210.50	0.15	0.24	1.18	1677191.78	14288883.68	39°20'54.922"N	80°52'11.695"W	1.21	78.702	0.45	0.36	26.68	
235.50	0.750	83.890	235.49	0.22	0.25	1.48	1677192.08	14288883.70	39°20'54.922"N	80°52'11.691"W	1.50	80.261	0.59	0.52	-23.78	
260.50	0.330	96.130	260.49	0.29	0.26	1.72	1677192.31	14288883.71	39°20'54.923"N	80°52'11.688"W	1.74	81.253	1.73	-1.68	48.96	
285.50	0.260	119.900	285.49	0.36	0.23	1.84	1677192.43	14288883.67	39°20'54.922"N	80°52'11.687"W	1.85	82.923	0.56	-0.28	95.08	
310.50	0.230	145.720	310.49	0.45	0.16	1.91	1677192.51	14288883.60	39°20'54.922"N	80°52'11.686"W	1.92	85.273	0.45	-0.12	103.28	
335.50	0.320	150.260	335.49	0.57	0.06	1.98	1677192.57	14288883.50	39°20'54.921"N	80°52'11.685"W	1.98	88.372	0.37	0.36	18.16	
360.50	0.270	108.440	360.49	0.67	-0.02	2.07	1677192.66	14288883.42	39°20'54.920"N	80°52'11.684"W	2.07	90.640	0.86	-0.20	-167.28	
385.50	0.250	108.630	385.49	0.74	-0.06	2.17	1677192.77	14288883.38	39°20'54.919"N	80°52'11.682"W	2.18	91.558	0.08	-0.08	0.76	
410.50	0.250	108.830	410.49	0.80	-0.09	2.28	1677192.88	14288883.35	39°20'54.919"N	80°52'11.681"W	2.28	92.367	0.00	0.00	0.80	
435.50	0.230	149.750	435.49	0.89	-0.16	2.35	1677192.95	14288883.29	39°20'54.918"N	80°52'11.680"W	2.36	93.769	0.68	-0.08	163.68	
460.50	0.230	147.400	460.49	0.98	-0.24	2.41	1677193.00	14288883.20	39°20'54.918"N	80°52'11.679"W	2.42	95.711	0.04	0.00	-9.40	
485.50	0.300	133.290	485.49	1.09	-0.33	2.48	1677193.08	14288883.11	39°20'54.917"N	80°52'11.678"W	2.50	97.526	0.38	0.28	-56.44	
510.50	0.400	139.470	510.49	1.23	-0.44	2.59	1677193.18	14288883.00	39°20'54.916"N	80°52'11.677"W	2.62	99.636	0.43	0.40	24.72	
535.50	0.460	133.940	535.49	1.40	-0.58	2.72	1677193.31	14288882.87	39°20'54.914"N	80°52'11.675"W	2.78	101.958	0.29	0.24	-22.12	
560.50	0.280	124.170	560.49	1.53	-0.68	2.84	1677193.43	14288882.76	39°20'54.913"N	80°52'11.674"W	2.92	103.456	0.76	-0.72	-39.08	
585.50	0.310	112.220	585.49	1.63	-0.74	2.95	1677193.55	14288882.70	39°20'54.913"N	80°52'11.672"W	3.04	104.057	0.27	0.12	-47.80	
610.50	0.180	103.600	610.49	1.69	-0.77	3.05	1677193.65	14288882.67	39°20'54.912"N	80°52'11.671"W	3.15	104.226	0.54	-0.52	-34.48	
635.50	0.250	117.400	635.49	1.75	-0.81	3.14	1677193.74	14288882.63	39°20'54.912"N	80°52'11.670"W	3.24	104.438	0.35	0.28	55.20	
660.50	0.150	112.640	660.49	1.81	-0.85	3.22	1677193.81	14288882.60	39°20'54.912"N	80°52'11.669"W	3.33	104.729	0.41	-0.40	-19.04	
685.50	0.160	159.000	685.49	1.87	-0.89	3.26	1677193.86	14288882.55	39°20'54.911"N	80°52'11.669"W	3.38	105.286	0.49	0.04	185.44	
710.50	0.210	125.360	710.49	1.94	-0.95	3.31	1677193.91	14288882.49	39°20'54.911"N	80°52'11.668"W	3.44	106.016	0.47	0.20	-134.56	
735.50	0.270	146.090	735.49	2.03	-1.03	3.38	1677193.98	14288882.42	39°20'54.910"N	80°52'11.667"W	3.53	106.877	0.42	0.24	82.92	
760.50	0.180	153.590	760.49	2.13	-1.11	3.43	1677194.03	14288882.33	39°20'54.909"N	80°52'11.666"W	3.61	107.923	0.38	-0.36	30.00	
785.50	0.240	136.880	785.49	2.21	-1.18	3.48	1677194.08	14288882.26	39°20'54.908"N	80°52'11.666"W	3.68	108.756	0.34	0.24	-66.84	



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

WELLPATH DATA (204 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
810.50	0.260	143.070	810.49	2.32	-1.27	3.55	1677194.15	14288882.18	39°20'54.907"N	80°52'11.665"W	3.77	109.615	0.13	0.08	24.52	
811.50	0.260	143.260	811.49	2.32	-1.27	3.56	1677194.15	14288882.17	39°20'54.907"N	80°52'11.665"W	3.78	109.653	0.11	0.00	25.00	
842.50	0.220	135.690	842.49	2.44	-1.37	3.64	1677194.24	14288882.07	39°20'54.906"N	80°52'11.664"W	3.89	110.612	0.16	-0.13	-24.42	Panther EM <1.2-1/4">(801')(832'-2555')
932.50	1.100	324.690	932.48	1.77	-0.79	3.26	1677193.86	14288882.65	39°20'54.912"N	80°52'11.669"W	3.35	103.578	1.46	0.98	-190.00	
1026.50	3.490	339.890	1026.40	-1.95	2.64	1.76	1677192.35	14288886.08	39°20'54.946"N	80°52'11.688"W	3.17	33.667	2.60	2.54	16.17	
1120.50	4.990	349.190	1120.14	-8.87	9.34	0.01	1677190.60	14288892.78	39°20'55.012"N	80°52'11.710"W	9.34	0.031	1.75	1.60	9.89	
1214.50	5.210	347.610	1213.77	-17.17	17.52	-1.68	1677188.92	14288900.96	39°20'55.093"N	80°52'11.731"W	17.60	354.532	0.28	0.23	-1.68	
1308.50	5.210	334.300	1307.38	-25.64	25.54	-4.44	1677186.16	14288908.97	39°20'55.172"N	80°52'11.766"W	25.92	350.128	1.28	0.00	-14.16	
1402.50	3.890	312.310	1401.09	-32.65	31.53	-8.65	1677181.95	14288914.96	39°20'55.232"N	80°52'11.820"W	32.70	344.653	2.30	-1.40	-23.39	
1497.50	2.210	288.290	1495.96	-36.55	34.27	-12.78	1677177.83	14288917.70	39°20'55.259"N	80°52'11.872"W	36.58	339.557	2.19	-1.77	-25.28	
1592.50	1.900	283.090	1590.90	-38.46	35.21	-16.05	1677174.56	14288918.63	39°20'55.268"N	80°52'11.914"W	38.89	335.493	0.38	-0.33	-5.47	
1686.50	1.020	277.100	1684.87	-39.63	35.66	-18.40	1677172.21	14288919.09	39°20'55.273"N	80°52'11.944"W	40.13	332.712	0.95	-0.94	-6.37	
1780.50	0.800	279.300	1778.85	-40.29	35.87	-19.88	1677170.73	14288919.30	39°20'55.275"N	80°52'11.962"W	41.01	331.011	0.24	-0.23	2.34	
1874.50	0.710	298.910	1872.85	-41.02	36.26	-21.03	1677169.57	14288919.69	39°20'55.279"N	80°52'11.977"W	41.92	329.884	0.29	-0.10	20.86	
1968.50	0.490	285.470	1966.84	-41.67	36.65	-21.93	1677168.68	14288920.07	39°20'55.283"N	80°52'11.988"W	42.71	329.104	0.28	-0.23	-14.30	
2062.50	0.400	46.490	2060.84	-42.04	36.98	-22.08	1677168.53	14288920.41	39°20'55.286"N	80°52'11.990"W	43.07	329.161	0.83	-0.10	128.74	
2157.50	1.100	62.890	2155.83	-42.32	37.62	-21.03	1677169.58	14288921.05	39°20'55.292"N	80°52'11.977"W	43.10	330.801	0.76	0.74	17.25	
2251.50	1.190	52.710	2249.81	-42.78	38.63	-19.45	1677171.16	14288922.05	39°20'55.302"N	80°52'11.957"W	43.25	333.277	0.24	0.10	-10.83	
2345.50	1.100	61.780	2343.79	-43.25	39.65	-17.88	1677172.73	14288923.07	39°20'55.312"N	80°52'11.937"W	43.49	335.730	0.21	-0.10	9.65	
2440.50	1.280	59.670	2438.77	-43.63	40.61	-16.16	1677174.45	14288924.04	39°20'55.322"N	80°52'11.915"W	43.71	338.307	0.19	0.19	-2.22	
2534.50	1.190	60.900	2532.75	-44.03	41.62	-14.40	1677176.21	14288925.04	39°20'55.332"N	80°52'11.893"W	44.04	340.917	0.10	-0.10	1.31	
2565.50	0.880	56.890	2563.75	-44.15	41.90	-13.92	1677176.69	14288925.33	39°20'55.334"N	80°52'11.886"W	44.15	341.628	1.03	-1.00	-12.94	
2654.50	0.800	239.680	2652.74	-44.20	41.96	-13.88	1677176.72	14288925.39	39°20'55.335"N	80°52'11.886"W	44.20	341.697	1.89	-0.09	-199.11	Panther EM <8-3/4">(2555')(2644'-6061')
2749.50	2.920	259.600	2747.69	-44.39	41.19	-16.83	1677173.77	14288924.62	39°20'55.327"N	80°52'11.924"W	44.60	337.773	2.30	2.23	20.97	
2843.50	5.390	272.070	2841.44	-46.25	40.92	-23.60	1677167.01	14288924.30	39°20'55.325"N	80°52'12.010"W	47.24	330.025	2.78	2.63	13.27	
2937.50	6.190	270.000	2934.95	-49.38	41.08	-33.08	1677157.53	14288924.50	39°20'55.326"N	80°52'12.130"W	52.74	321.155	0.88	0.85	-2.20	
3031.50	7.600	281.770	3028.28	-54.07	42.35	-44.24	1677146.38	14288925.77	39°20'55.339"N	80°52'12.272"W	61.24	313.750	2.12	1.50	12.52	
3126.50	7.910	280.070	3122.41	-60.31	44.76	-56.82	1677133.80	14288928.19	39°20'55.363"N	80°52'12.432"W	72.34	308.231	0.41	0.33	-1.85	
3220.50	9.100	284.590	3215.37	-67.41	47.76	-70.39	1677120.24	14288931.18	39°20'55.393"N	80°52'12.605"W	85.06	304.159	1.46	1.27	4.87	
3320.50	9.590	283.710	3314.05	-76.11	51.73	-86.13	1677104.50	14288935.15	39°20'55.432"N	80°52'12.805"W	100.47	300.987	0.51	0.49	-0.88	



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

WELLPATH DATA (204 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
3414.50	9.410	280.580	3406.76	-83.96	54.99	-101.29	1677089.35	14288938.41	39°20'55.465"N	80°52'12.998"W	115.26	298.498	0.58	-0.19	-3.33	
3609.50	8.880	278.510	3500.55	-91.01	57.51	-116.18	1677074.47	14288940.92	39°20'55.490"N	80°52'13.188"W	129.63	296.334	0.66	-0.56	-2.18	
3605.50	8.790	277.580	3595.41	-97.55	59.57	-130.78	1677059.87	14288942.99	39°20'55.511"N	80°52'13.374"W	143.71	294.489	0.18	-0.09	-0.97	
3700.50	8.710	275.910	3689.31	-103.66	61.27	-145.13	1677045.53	14288944.68	39°20'55.528"N	80°52'13.556"W	157.53	292.888	0.28	-0.08	-1.76	
3795.50	8.790	272.690	3783.20	-109.20	62.35	-159.53	1677031.13	14288945.77	39°20'55.538"N	80°52'13.740"W	171.28	291.346	0.52	0.08	-3.39	
3890.50	9.190	279.300	3877.04	-115.30	63.92	-174.27	1677016.40	14288947.33	39°20'55.554"N	80°52'13.927"W	185.62	290.141	1.17	0.42	6.96	
3985.50	9.010	277.410	3970.84	-122.03	66.10	-189.13	1677001.54	14288949.52	39°20'55.576"N	80°52'14.116"W	200.35	289.264	0.37	-0.19	-1.99	
4080.50	8.790	274.410	4064.70	-128.05	67.62	-203.75	1676986.93	14288951.03	39°20'55.591"N	80°52'14.302"W	214.68	288.360	0.54	-0.23	-3.16	
4175.50	8.790	285.690	4158.59	-134.91	70.14	-217.97	1676972.71	14288953.55	39°20'55.616"N	80°52'14.483"W	228.98	287.837	1.81	0.00	11.87	
4269.50	9.900	291.200	4251.34	-144.05	75.00	-232.42	1676958.27	14288958.42	39°20'55.665"N	80°52'14.667"W	244.23	287.885	1.52	1.18	5.86	
4363.50	9.990	290.670	4343.93	-154.31	80.80	-247.59	1676943.11	14288964.21	39°20'55.722"N	80°52'14.860"W	260.44	288.075	0.14	0.10	-0.56	
4458.50	10.210	281.280	4437.46	-163.64	85.36	-263.55	1676927.15	14288968.77	39°20'55.767"N	80°52'15.063"W	277.03	287.946	1.75	0.23	-9.88	
4553.50	10.610	274.890	4530.90	-171.23	87.75	-280.53	1676910.18	14288971.16	39°20'55.791"N	80°52'15.279"W	293.93	287.371	1.29	0.42	-6.73	
4649.50	10.380	273.570	4625.30	-177.92	89.04	-297.96	1676892.75	14288972.45	39°20'55.804"N	80°52'15.501"W	310.98	286.639	0.35	-0.24	-1.38	
4744.50	10.300	273.480	4718.75	-184.25	90.09	-314.98	1676875.74	14288973.50	39°20'55.815"N	80°52'15.718"W	327.61	285.962	0.09	-0.08	-0.09	
4839.50	10.380	270.400	4812.21	-190.13	90.67	-332.02	1676858.71	14288974.07	39°20'55.821"N	80°52'15.935"W	344.18	285.274	0.59	0.08	-3.24	
4935.50	10.390	272.380	4906.64	-195.95	91.09	-349.31	1676841.43	14288974.49	39°20'55.825"N	80°52'16.155"W	360.99	284.615	0.37	0.00	2.06	
5030.50	10.210	277.490	5000.11	-202.62	92.54	-366.21	1676824.54	14288975.95	39°20'55.840"N	80°52'16.370"W	377.72	284.182	0.98	-0.18	5.36	
5125.50	9.810	274.500	5093.67	-209.41	94.27	-382.62	1676808.13	14288977.68	39°20'55.857"N	80°52'16.579"W	394.07	283.841	0.69	-0.42	-3.15	
5220.50	9.720	278.770	5187.29	-216.19	96.13	-398.62	1676792.14	14288979.53	39°20'55.876"N	80°52'16.782"W	410.04	283.559	0.77	-0.03	4.49	
5314.50	10.520	276.790	5279.83	-223.43	98.36	-414.98	1676775.78	14288981.76	39°20'55.898"N	80°52'16.991"W	426.48	283.334	0.93	0.85	-2.11	
5409.50	9.280	276.300	5373.41	-230.28	100.22	-431.21	1676759.56	14288983.62	39°20'55.917"N	80°52'17.197"W	442.70	283.084	1.31	-1.31	-0.52	
5505.50	8.710	276.700	5468.23	-236.57	101.92	-446.12	1676744.66	14288985.32	39°20'55.934"N	80°52'17.387"W	457.61	282.869	0.60	-0.59	0.42	
5599.50	8.400	278.900	5561.19	-242.71	103.81	-459.97	1676730.81	14288987.21	39°20'55.953"N	80°52'17.563"W	471.54	282.718	0.48	-0.33	2.34	
5693.50	10.520	279.390	5653.90	-249.82	106.27	-475.22	1676715.57	14288989.67	39°20'55.977"N	80°52'17.757"W	486.96	282.606	2.26	2.26	0.52	
5788.50	13.390	271.680	5746.84	-257.60	108.01	-494.78	1676696.02	14288991.41	39°20'55.995"N	80°52'18.006"W	506.43	282.315	3.45	3.02	-8.12	
5882.50	13.300	251.670	5838.35	-261.30	104.93	-515.93	1676674.87	14288998.33	39°20'55.964"N	80°52'18.276"W	526.50	281.496	4.89	-0.10	-21.29	
5977.50	19.890	226.200	5929.46	-254.31	90.27	-538.02	1676652.79	14288973.68	39°20'55.820"N	80°52'18.557"W	545.54	279.525	10.18	6.94	-26.81	
6071.50	17.720	208.970	6018.50	-237.68	66.67	-566.51	1676634.31	14288950.08	39°20'55.587"N	80°52'18.793"W	560.49	276.831	6.32	-2.31	-18.33	
6102.00	18.630	200.320	6047.49	-230.72	58.04	-560.45	1676630.37	14288941.46	39°20'55.502"N	80°52'18.843"W	563.45	275.912	9.33	2.98	-28.36	BH AT Curve <8-1/2"> (6071.5)(6102.-15590')



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #06
Area	Tyler County, WV	Sarahlene Unit 1H
Field	Tyler	Sarahlene Unit 1H AWB
Facility	Meredith Pad	

WELLPATH DATA (204 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 (1/1000ft)	Build Rate (1/1000ft)	Turn Rate (1/1000ft)	Comments
6153.00	21.590	193.410	6095.38	-216.36	41.27	-565.46	1676625.37	14288924.69	39°20'55.336"N	80°52'18.907"W	566.96	274.174	7.43	5.80	-13.55	
6201.00	24.570	189.230	6139.54	-199.99	22.82	-569.11	1676621.72	14288906.25	39°20'55.154"N	80°52'18.954"W	569.56	272.296	7.08	6.21	-8.71	
6248.00	28.190	186.400	6181.64	-181.22	2.13	-571.91	1676618.91	14288885.58	39°20'54.949"N	80°52'18.990"W	571.92	270.214	8.15	7.70	-6.02	
6296.00	32.390	183.270	6223.08	-158.95	-21.98	-573.91	1676616.92	14288861.47	39°20'54.711"N	80°52'19.016"W	574.33	267.807	9.33	8.73	-6.52	
6343.00	36.690	180.860	6261.79	-133.97	-48.59	-574.84	1676615.99	14288834.87	39°20'54.448"N	80°52'19.028"W	576.89	265.168	9.62	9.17	-5.13	
6390.00	40.850	179.540	6298.43	-106.05	-78.02	-574.93	1676615.90	14288805.46	39°20'54.157"N	80°52'19.030"W	580.20	262.272	9.02	8.85	-2.81	
6437.00	45.340	177.280	6332.74	-75.30	-110.10	-574.01	1676616.82	14288773.38	39°20'53.840"N	80°52'19.013"W	584.47	259.142	10.10	9.55	-4.81	
6485.00	50.240	176.040	6364.98	-40.95	-145.58	-571.92	1676618.90	14288737.92	39°20'53.489"N	80°52'18.993"W	590.16	255.719	10.39	10.21	-2.53	Middlesex: 6449' MD
6532.00	54.590	176.100	6393.64	-4.87	-182.73	-569.37	1676621.45	14288700.78	39°20'53.122"N	80°52'18.961"W	597.98	252.207	9.26	9.26	0.13	
6580.00	58.350	175.740	6420.15	33.91	-222.63	-566.52	1676624.30	14288660.90	39°20'52.728"N	80°52'18.925"W	608.70	248.546	7.86	7.83	-0.75	
6627.00	62.420	174.280	6443.37	73.68	-263.33	-562.96	1676627.86	14288620.22	39°20'52.325"N	80°52'18.881"W	621.50	244.932	9.07	8.65	-3.11	
6643.00	63.502	173.832	6450.65	87.60	-271.50	-561.48	1676629.34	14288606.05	39°20'52.185"N	80°52'18.862"W	626.32	243.700	7.21	6.76	-2.80	Burkett: 6643' MD
6675.00	65.670	172.960	6464.38	115.90	-306.21	-558.16	1676632.66	14288577.35	39°20'51.901"N	80°52'18.820"W	636.64	241.250	7.21	6.76	-2.72	
6722.00	68.320	171.560	6482.74	158.44	-349.07	-552.33	1676638.49	14288534.51	39°20'51.478"N	80°52'18.747"W	653.39	237.707	6.27	5.64	-2.98	
6728.00	68.665	171.231	6484.94	163.94	-354.59	-551.49	1676639.33	14288528.99	39°20'51.423"N	80°52'18.736"W	655.65	237.260	7.63	5.76	-3.38	Tully: 6728' MD
6770.00	71.100	169.020	6499.39	202.95	-393.44	-544.73	1676646.09	14288490.16	39°20'51.039"N	80°52'18.651"W	671.95	234.161	7.63	5.80	-5.28	
6817.00	75.470	166.200	6512.91	247.71	-437.39	-535.06	1676655.75	14288446.23	39°20'50.605"N	80°52'18.529"W	691.08	230.736	10.93	9.30	-6.00	
6833.00	76.210	166.042	6516.82	263.18	-452.45	-531.34	1676659.47	14288431.17	39°20'50.456"N	80°52'18.482"W	697.88	229.585	4.72	4.62	-0.99	Marcellus POE: 6833' MD
6865.00	77.690	165.730	6524.05	294.27	-482.88	-523.74	1676667.07	14288400.95	39°20'50.157"N	80°52'18.385"W	712.24	227.336	4.72	4.63	-0.98	
6912.00	80.510	166.430	6532.93	340.29	-527.47	-512.64	1676678.17	14288356.18	39°20'49.714"N	80°52'18.245"W	735.54	224.183	6.18	6.00	1.48	
6960.00	84.580	166.940	6539.16	387.69	-573.78	-501.68	1676689.12	14288309.89	39°20'49.256"N	80°52'18.106"W	762.17	221.165	8.54	8.48	1.06	
7055.00	90.770	164.870	6543.06	482.31	-665.79	-478.57	1676712.22	14288217.92	39°20'48.346"N	80°52'17.814"W	819.94	215.709	6.81	6.45	-2.18	
7149.00	91.290	157.570	6541.42	576.23	-754.71	-448.34	1676742.44	14288129.03	39°20'47.467"N	80°52'17.431"W	877.83	210.712	7.79	0.62	-7.77	
7244.00	90.890	152.080	6539.61	670.48	-840.83	-407.92	1676782.84	14288043.15	39°20'46.617"N	80°52'16.918"W	934.37	205.886	5.82	-0.42	-5.81	
7339.00	89.940	150.210	6538.92	763.85	-923.81	-362.06	1676828.68	14287980.00	39°20'45.795"N	80°52'16.335"W	992.23	201.401	2.18	-1.00	-1.94	
7434.00	89.850	151.090	6539.10	857.08	-1006.82	-315.50	1676875.23	14287877.23	39°20'44.975"N	80°52'15.744"W	1054.90	197.402	0.93	-0.09	0.93	
7529.00	88.860	153.490	6540.17	950.77	-1090.71	-271.33	1676919.38	14287793.17	39°20'44.144"N	80°52'15.184"W	1123.95	193.969	2.73	-1.04	2.53	
7624.00	87.320	158.150	6543.33	1045.18	-1177.90	-232.45	1676958.24	14287706.61	39°20'43.287"N	80°52'14.690"W	1200.03	191.169	5.16	-1.62	4.91	
7719.00	89.880	166.580	6545.66	1140.06	-1267.72	-203.71	1676986.97	14287616.23	39°20'42.393"N	80°52'14.326"W	1283.98	189.129	9.27	2.69	8.87	



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

WELLPATH DATA (204 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
7814.00	89.910	168.170	6545.83	1234.59	-1360.42	-182.94	1677007.73	14287523.57	39°20'41.477"N	80°52'14.064"W	1372.67	187.659	1.67	0.03	0.03	1.67
7909.00	90.090	166.370	6545.83	1329.15	-1453.08	-162.01	1677028.65	14287430.94	39°20'40.561"N	80°52'13.799"W	1462.09	186.382	1.90	0.19	-1.89	-1.89
8004.00	89.910	164.950	6545.83	1423.92	-1545.12	-138.48	1677052.17	14287338.94	39°20'39.651"N	80°52'13.501"W	1551.31	185.121	1.51	-0.19	-1.49	-1.49
8099.00	90.180	163.160	6545.76	1518.84	-1636.46	-112.39	1677078.26	14287247.64	39°20'38.747"N	80°52'13.170"W	1640.32	183.929	1.91	0.28	-1.88	-1.88
8195.00	90.000	162.170	6545.61	1614.83	-1728.10	-93.78	1677106.35	14287156.03	39°20'37.841"N	80°52'12.808"W	1730.13	182.776	1.05	-0.19	-1.03	-1.03
8290.00	89.940	162.320	6545.66	1709.82	-1818.57	-54.81	1677135.81	14287065.60	39°20'36.947"N	80°52'12.441"W	1819.40	181.726	0.17	-0.06	0.16	0.16
8385.00	90.310	163.320	6545.45	1804.81	-1909.33	-26.75	1677163.86	14286974.87	39°20'36.049"N	80°52'12.085"W	1909.52	180.803	1.12	0.39	1.05	1.05
8480.00	90.150	162.330	6545.07	1899.79	-2000.10	1.30	1677191.90	14286884.15	39°20'35.152"N	80°52'11.730"W	2000.10	179.963	1.06	-0.17	-1.04	-1.04
8575.00	90.400	161.170	6544.61	1994.78	-2090.31	31.05	1677221.64	14286793.96	39°20'34.260"N	80°52'11.353"W	2090.54	179.149	1.25	0.26	-1.22	-1.22
8670.00	90.310	161.120	6544.03	2089.78	-2180.21	61.75	1677252.32	14286704.10	39°20'33.371"N	80°52'10.964"W	2181.09	178.378	0.11	-0.09	-0.05	-0.05
8765.00	90.090	160.660	6543.69	2184.77	-2269.98	92.85	1677283.41	14286614.37	39°20'32.483"N	80°52'10.570"W	2271.88	177.688	0.54	-0.23	-0.48	-0.48
8860.00	90.310	160.370	6543.36	2279.74	-2359.54	124.54	1677315.09	14286524.85	39°20'31.597"N	80°52'10.168"W	2362.82	176.979	0.38	0.23	-0.31	-0.31
8955.00	90.400	161.060	6542.77	2374.73	-2449.20	155.91	1677346.45	14286435.22	39°20'30.711"N	80°52'09.770"W	2454.16	176.358	0.73	0.09	0.73	0.73
9050.00	90.180	162.750	6542.29	2469.72	-2539.50	185.42	1677375.94	14286344.96	39°20'29.818"N	80°52'09.397"W	2546.26	175.824	1.79	-0.23	1.78	1.78
9145.00	90.030	164.670	6542.12	2564.66	-2630.68	212.07	1677402.58	14286253.81	39°20'28.916"N	80°52'09.059"W	2639.22	175.391	2.03	-0.16	2.02	2.02
9239.00	90.400	166.070	6541.77	2658.47	-2721.62	235.85	1677426.36	14286162.91	39°20'28.017"N	80°52'08.758"W	2731.82	175.047	1.48	0.39	1.43	1.43
9334.00	90.430	164.070	6541.08	2753.31	-2813.39	260.38	1677450.87	14286071.17	39°20'27.110"N	80°52'08.448"W	2825.42	174.712	2.04	0.03	-2.04	-2.04
9429.00	90.250	160.300	6540.51	2848.29	-2903.82	289.44	1677479.92	14285980.78	39°20'26.216"N	80°52'08.079"W	2918.21	174.308	3.97	-0.19	-3.97	-3.97
9524.00	89.660	160.480	6540.59	2943.26	-2993.31	321.32	1677511.79	14285891.33	39°20'25.331"N	80°52'07.675"W	3010.51	173.873	0.65	-0.62	0.19	0.19
9619.00	90.060	161.980	6540.82	3038.25	-3083.25	351.89	1677542.34	14285801.42	39°20'24.441"N	80°52'07.288"W	3103.27	173.489	1.63	0.42	1.58	1.58
9714.00	89.720	164.910	6541.00	3133.20	-3174.31	378.95	1677569.40	14285710.41	39°20'23.541"N	80°52'06.945"W	3196.85	173.192	3.10	-0.36	3.08	3.08
9809.00	90.150	166.220	6541.11	3227.98	-3266.30	402.63	1677593.07	14285618.44	39°20'22.631"N	80°52'06.645"W	3291.03	172.973	1.45	0.45	1.38	1.38
9904.00	90.250	166.580	6540.78	3322.67	-3358.64	424.97	1677616.50	14285526.15	39°20'21.718"N	80°52'06.363"W	3385.42	172.789	0.39	0.11	0.38	0.38
9999.00	91.060	166.480	6539.68	3417.33	-3451.02	447.10	1677637.52	14285433.80	39°20'20.805"N	80°52'06.083"W	3479.86	172.618	0.88	0.87	-0.11	-0.11
10093.00	90.920	162.730	6538.04	3511.18	-3541.62	472.04	1677662.45	14285343.24	39°20'19.909"N	80°52'05.767"W	3572.94	172.408	3.99	-0.17	-3.99	-3.99
10188.00	90.250	160.620	6537.06	3606.17	-3631.79	501.91	1677692.31	14285253.11	39°20'19.018"N	80°52'05.389"W	3666.31	172.132	2.33	-0.71	-2.22	-2.22
10283.00	89.970	158.880	6536.88	3701.11	-3720.91	534.79	1677725.17	14285164.02	39°20'18.136"N	80°52'04.972"W	3759.15	171.821	1.86	-0.29	-1.83	-1.83
10378.00	89.820	158.910	6537.06	3795.99	-3809.54	569.00	1677759.37	14285075.43	39°20'17.260"N	80°52'04.638"W	3851.80	171.505	0.16	-0.16	0.03	0.03
10473.00	89.720	160.230	6537.44	3890.92	-3898.56	602.16	1677792.51	14284986.44	39°20'16.379"N	80°52'04.118"W	3944.79	171.220	1.39	-0.11	1.39	1.39
10568.00	89.380	160.490	6538.18	3985.89	-3988.03	634.09	1677824.43	14284897.01	39°20'15.495"N	80°52'03.713"W	4038.13	170.966	0.45	-0.36	0.27	0.27



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #06
ANTERO RESOURCES CORPORATION	Sarahlene Unit 1H
Area	Tyler County, WV
Field	Tyler
Facility	Meredith Pad

WELLPATH DATA (204 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US IT)	Grid North (US IT)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
10663.00	90.060	162.860	6538.65	4080.88	-4078.21	663.95	1677854.28	14284806.87	39°20'14.603"N	80°52'03.335"W	4131.90	170.753	2.60	0.72	2.49	
10757.00	89.630	163.880	6538.90	4174.84	-4168.27	680.85	1677881.17	14284716.84	39°20'13.712"N	80°52'02.994"W	4225.14	170.589	1.18	-0.46	1.09	
10852.00	89.050	166.160	6540.00	4269.67	-4260.03	715.41	1677905.72	14284625.11	39°20'12.805"N	80°52'02.683"W	4319.69	170.467	2.48	-0.61	2.40	
10947.00	90.400	166.620	6540.45	4364.36	-4352.36	737.76	1677928.06	14284532.82	39°20'11.892"N	80°52'02.400"W	4414.45	170.379	1.50	1.42	0.48	
11042.00	90.800	163.220	6539.46	4459.19	-4444.07	762.47	1677952.76	14284441.15	39°20'10.986"N	80°52'02.087"W	4509.01	170.265	3.60	0.42	-3.58	
11136.00	91.110	160.250	6537.89	4553.17	-4533.31	791.92	1677982.20	14284351.94	39°20'10.103"N	80°52'01.714"W	4601.96	170.091	3.18	0.33	-3.16	
11231.00	89.750	157.590	6537.18	4648.04	-4621.94	826.09	1678016.35	14284263.35	39°20'09.227"N	80°52'01.281"W	4695.19	169.866	3.14	-1.43	-2.80	
11326.00	89.600	155.960	6537.72	4742.68	-4709.24	863.55	1678053.80	14284176.09	39°20'08.363"N	80°52'00.806"W	4787.76	169.609	1.72	-0.16	-1.72	
11420.00	89.420	158.990	6538.52	4836.40	-4796.06	899.55	1678088.79	14284089.31	39°20'07.505"N	80°52'00.349"W	4879.69	169.377	3.23	-0.19	3.22	
11515.00	89.380	163.700	6539.52	4931.37	-4886.03	929.93	1678120.16	14283999.36	39°20'06.615"N	80°51'59.965"W	4973.74	169.224	4.96	-0.04	4.96	
11610.00	90.000	164.030	6540.03	5026.30	-4977.29	956.33	1678146.55	14283908.14	39°20'05.713"N	80°51'59.630"W	5068.33	169.124	0.74	0.65	0.35	
11705.00	90.220	160.740	6539.85	5121.28	-5067.82	985.08	1678175.28	14283817.65	39°20'04.817"N	80°51'59.266"W	5162.67	169.000	3.47	0.23	-3.46	
11800.00	89.570	159.200	6540.02	5216.23	-5157.07	1017.61	1678207.80	14283728.43	39°20'03.935"N	80°51'58.854"W	5256.51	168.838	1.76	-0.68	-1.62	
11894.00	89.350	159.690	6540.91	5310.15	-5245.09	1050.62	1678240.79	14283640.46	39°20'03.064"N	80°51'58.435"W	5349.27	168.673	0.57	-0.23	0.52	
11989.00	89.420	158.610	6541.93	5405.05	-5333.86	1084.43	1678274.59	14283551.72	39°20'02.187"N	80°51'58.007"W	5442.98	168.508	1.14	0.07	-1.14	
12083.00	89.450	157.430	6542.85	5498.85	-5421.02	1119.61	1678309.76	14283464.59	39°20'01.325"N	80°51'57.561"W	5536.43	168.331	1.26	0.03	-1.26	
12178.00	89.450	155.160	6543.77	5593.41	-5507.99	1157.79	1678347.93	14283377.65	39°20'00.464"N	80°51'57.076"W	5628.36	168.129	2.39	0.00	-2.39	
12273.00	89.230	155.080	6544.86	5687.77	-5594.17	1197.76	1678387.88	14283291.51	39°19'59.612"N	80°51'56.569"W	5720.96	167.915	0.25	-0.23	-0.08	
12367.00	89.290	162.570	6546.08	5781.57	-5681.76	1231.69	1678421.79	14283203.96	39°19'58.746"N	80°51'56.139"W	5813.72	167.769	7.97	0.06	7.97	
12462.00	89.570	164.660	6547.02	5876.51	-5772.89	1268.48	1678448.58	14283112.87	39°19'57.845"N	80°51'55.800"W	5908.47	167.702	2.22	0.29	2.20	
12557.00	89.350	162.930	6547.92	5971.44	-5864.11	1284.99	1678475.08	14283021.68	39°19'56.943"N	80°51'55.464"W	6003.24	167.640	1.84	-0.23	-1.82	
12651.00	89.420	161.870	6548.93	6065.43	-5953.70	1313.41	1678503.49	14282932.13	39°19'56.057"N	80°51'55.104"W	6096.85	167.560	1.13	0.07	-1.13	
12746.00	89.380	162.110	6549.92	6160.42	-6044.04	1342.78	1678532.84	14282841.82	39°19'55.164"N	80°51'54.732"W	6191.40	167.474	0.26	-0.04	0.25	
12841.00	89.450	161.110	6550.89	6255.42	-6134.18	1372.75	1678562.80	14282751.72	39°19'54.272"N	80°51'54.353"W	6285.91	167.386	1.06	0.07	-1.05	
12935.00	89.600	161.080	6551.67	6349.41	-6223.11	1403.21	1678593.24	14282662.83	39°19'53.393"N	80°51'53.967"W	6379.35	167.293	0.16	0.16	-0.03	
13030.00	89.720	161.970	6552.23	6444.40	-6313.21	1433.31	1678623.34	14282572.76	39°19'52.502"N	80°51'53.585"W	6473.87	167.209	0.95	0.13	0.94	
13124.00	89.660	160.030	6552.74	6538.39	-6402.08	1463.91	1678653.93	14282483.92	39°19'51.623"N	80°51'53.198"W	6567.32	167.120	2.06	-0.06	-2.06	
13219.00	89.720	158.320	6553.26	6633.29	-6490.87	1497.69	1678687.68	14282395.17	39°19'50.745"N	80°51'52.769"W	6661.42	167.007	1.80	0.06	-1.80	
13314.00	89.660	157.640	6553.77	6728.08	-6578.94	1533.30	1678723.29	14282307.14	39°19'49.874"N	80°51'52.318"W	6755.25	166.881	0.72	-0.06	-0.72	
13409.00	89.480	159.680	6554.48	6822.94	-6667.42	1567.87	1678757.84	14282218.69	39°19'48.999"N	80°51'51.880"W	6849.28	166.767	2.16	-0.19	2.15	



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #06
ANTERO RESOURCES CORPORATION	Sarahlene Unit 1H
Area	Well
Tyler County, WV	Sarahlene Unit 1H AWB
Field	Wellbore
Tyler	
Facility	Meredith Pad

WELLPATH DATA (204 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
13504.00	89.720	162.920	6555.15	6917.92	-6757.39	1598.32	1678788.28	14282128.76	39°19'48.109"N	80°51'51.494"W	6943.84	166.692	3.42	0.25	3.41	
13598.00	89.820	162.710	6555.52	7011.90	-6847.19	1626.10	1678816.04	14282038.99	39°19'47.221"N	80°51'51.142"W	7037.63	166.641	0.25	0.11	-0.22	
13693.00	89.820	161.140	6555.82	7106.90	-6937.50	1655.57	1678848.51	14281948.72	39°19'46.328"N	80°51'50.769"W	7132.31	166.578	1.65	0.00	-1.65	
13788.00	89.830	160.460	6556.28	7201.88	-7027.22	1686.81	1678876.74	14281859.04	39°19'45.441"N	80°51'50.373"W	7226.83	166.502	0.74	-0.20	-0.72	
13883.00	89.260	161.980	6557.20	7296.87	-7117.15	1717.39	1678907.30	14281769.14	39°19'44.552"N	80°51'49.985"W	7321.43	166.434	1.65	-0.39	1.60	
13978.00	89.660	164.570	6558.09	7391.83	-7208.12	1744.73	1678934.63	14281678.21	39°19'43.652"N	80°51'49.639"W	7416.27	166.393	2.76	0.42	2.73	
14072.00	89.540	167.420	6558.75	7485.56	-7299.31	1767.48	1678957.37	14281587.05	39°19'42.751"N	80°51'49.352"W	7510.26	166.388	3.03	-0.13	3.03	
14167.00	89.720	169.040	6559.36	7579.94	-7392.31	1786.85	1678976.74	14281494.09	39°19'41.831"N	80°51'49.107"W	7605.20	166.411	1.72	0.19	1.71	
14262.00	89.880	166.830	6559.70	7674.38	-7485.21	1806.71	1678996.58	14281401.23	39°19'40.913"N	80°51'48.856"W	7700.16	166.430	2.33	0.17	-2.33	
14357.00	89.660	164.720	6560.08	7769.14	-7577.29	1830.05	1679019.92	14281309.19	39°19'40.002"N	80°51'48.561"W	7795.15	166.422	2.23	-0.23	-2.22	
14452.00	89.750	165.040	6560.57	7863.99	-7669.00	1854.83	1679044.69	14281217.51	39°19'39.095"N	80°51'48.247"W	7890.12	166.403	0.35	0.09	0.34	
14547.00	89.820	163.560	6560.92	7958.90	-7760.45	1880.54	1679070.38	14281126.10	39°19'38.191"N	80°51'47.922"W	7985.05	166.378	1.56	0.07	-1.56	
14641.00	89.480	163.410	6561.50	8052.85	-7850.57	1907.26	1679097.09	14281036.01	39°19'37.300"N	80°51'47.583"W	8078.93	166.345	0.40	-0.36	-0.16	
14737.00	90.250	162.660	6561.72	8148.82	-7942.39	1935.27	1679125.09	14280944.23	39°19'36.392"N	80°51'47.229"W	8174.77	166.306	1.12	0.80	-0.78	
14832.00	89.570	162.440	6561.87	8243.81	-8033.02	1963.76	1679153.57	14280853.64	39°19'35.496"N	80°51'46.868"W	8269.57	166.263	0.75	-0.72	-0.23	
14927.00	89.140	164.350	6562.94	8338.76	-8124.05	1990.90	1679180.70	14280762.65	39°19'34.596"N	80°51'46.524"W	8364.44	166.230	2.06	-0.45	2.01	
15022.00	89.510	166.870	6564.06	8433.53	-8216.05	2014.51	1679204.30	14280670.68	39°19'33.686"N	80°51'46.226"W	8459.42	166.223	2.68	0.39	2.65	
15117.00	90.090	165.880	6564.39	8528.22	-8308.38	2036.89	1679226.67	14280578.39	39°19'32.773"N	80°51'45.943"W	8554.42	166.225	1.21	0.61	-1.04	
15212.00	89.780	161.530	6564.50	8623.14	-8399.54	2063.53	1679253.31	14280487.27	39°19'31.872"N	80°51'45.605"W	8649.30	166.197	4.59	-0.33	-4.58	
15306.00	89.970	159.260	6564.71	8717.08	-8487.80	2095.84	1679285.60	14280399.04	39°19'30.999"N	80°51'45.196"W	8742.73	166.130	3.48	0.20	-3.48	
15402.00	90.280	155.430	6564.50	8812.72	-8576.06	2133.59	1679323.33	14280310.82	39°19'30.126"N	80°51'44.717"W	8837.47	166.029	2.97	0.32	-2.95	
15496.00	89.600	152.440	6564.60	8905.84	-8660.49	2174.88	1679364.61	14280226.42	39°19'29.291"N	80°51'44.194"W	8929.40	165.903	3.26	-0.72	-3.18	
15590.00	89.540	153.670	6565.30	8998.76	-8744.28	2217.48	1679407.19	14280142.67	39°19'28.462"N	80°51'43.653"W	9021.06	165.770	1.31	-0.06	1.31	
15614.00	89.540	153.670	6565.49	9022.52	-8765.79	2228.12	1679417.83	14280121.16	39°19'28.250"N	80°51'43.518"W	9044.53	165.738	0.00	0.00	0.00	Projected MD at TD: 15614'



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Sarahlene Unit 1H AWB Ref Wellpath: Sarahlene Unit 1H AWP Proj: 15614'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.14	0.00	0.33
17.5in Open Hole	105.50	826.50	721.00	105.50	826.49	0.14	-1.32	0.33	3.60
13.375in Casing Surface	25.50	826.50	801.00	25.50	826.49	0.00	-1.32	0.00	3.60
12.25in Open Hole	826.50	2622.50	1796.00	826.49	2620.74	-1.32	42.10	3.60	-13.64
9.625in Casing Intermediate	25.50	2622.50	2597.00	25.50	2620.74	0.00	42.10	0.00	-13.64
8.75in Open Hole	2622.50	6131.50	3509.00	2620.74	6075.30	42.10	48.70	-13.64	-563.51
8.5in Open Hole	6131.50	15614.00	9482.50	6075.30	6565.49	48.70	-8765.79	-563.51	2228.12
5.5in Casing Production	25.50	15614.00	15588.50	25.50	6565.49	0.00	-8765.79	0.00	2228.12

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sarahlene Unit 1H - POE - Rev-1	6519.00	-451.95	-518.67	1676672.14	14288431.67	39°20'50.460"N	80°52'18.320"W	point
Sarahlene Unit 1H - BHL - Rev-1	6542.00	-8770.95	2216.29	1679406.00	14280116.00	39°19'28.199"N	80°51'43.669"W	point
Sarahlene Unit 1H - LP - Rev-1	6542.00	-631.19	-467.08	1676723.71	14288252.50	39°20'48.668"N	80°52'17.667"W	point



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot:#06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

WELLPATH COMPOSITION - Ref Wellbore: Sarahlene Unit 1H AWB Ref Wellpath: Sarahlene Unit 1H AWP Proj: 15614'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.50	811.50	Gyrodala standard - Drop gyro or Multi-shot	01 Gyrodala MS Gyro <17-1/2">(100'-801')	Sarahlene Unit 1H AWB
811.50	2665.50	ISCWSA MWD, Rev. 4 (Standard)	02 Panther EM <12-1/4">(801')\832'-2555'	Sarahlene Unit 1H AWB
2665.50	6071.50	ISCWSA MWD, Rev. 4 (Standard)	03 Panther EM <8-3/4">(2555')\2644'-6061'	Sarahlene Unit 1H AWB
6071.50	15590.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (6071.5')\6102'-15590'	Sarahlene Unit 1H AWB
15590.00	15614.00	Blind Drilling (std)	Projection to bit	Sarahlene Unit 1H AWB



Actual Wellpath Report

Sarahlene Unit 1H AWP Proj: 15614'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Sarahlene Unit 1H
Field	Tyler	Wellbore	Sarahlene Unit 1H AWB
Facility	Meredith Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02518-0000 BHI Job #: 109658862 Rig: H&P 317 Duration: 02/17/2019-02/20/2019 Gyrodatta MS Gyro <17-1/2">(100'-801') Panther EM <12-1/4">(801')(832'-2555') Panther EM <8-3/4">(2555')(2644'-6061') BH AT Curve <8-1/2">(6071.5')(6102'-15590') Middlesex: 6449' MD Burkett: 6643' MD Tully: 6728' MD Marcellus POE: 6833' MD Projected MD at TD: 15614'</p>