

ANTERO RESOURCES CORPORATION

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

Slot: Slot #07
 Well: Sarahlene Unit 2H
 Wellbore: Sarahlene Unit 2H PWB

Plot reference wellbore is Sarahlene Unit 2H PWB Rev-A-0
Grid System: NAD83 / UTM, Zone 17 North, US feet
North Reference: Grid north
Scale: True distance
Measured depths are referenced to H&P 317 (RKB)
Scale: True distance
Mean Sea Level to Mean Sea Level: 1136.5 feet
H&P 317 (RKB) to Ground level (At Slot #07): -1111 feet
Coordinates are in feet referenced to Slot

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Meredith Pad	1877162.341	14288974.286	39°20'54.630"N	80°52'12.070"W
Slot #07	1877204.727	14288887.507	39°20'54.860"N	80°52'11.530"W
H&P 317 (RKB) to Ground level (At Slot #07)		25.5ft		
Mean Sea Level to Ground level (At Slot #07)		-1111ft		
H&P 317 (RKB) to Mean Sea Level		1136.5ft		

Well Data

Slot	Well	Wellbore	Wellbore
Slot #07	Sarahlene Unit 2H	Sarahlene Unit 2H AWB	Sarahlene Unit 2H AWP Prod. 15804
Slot #07	Sarahlene Unit 2H	Sarahlene Unit 2H PWB	Sarahlene Unit 2H PWP Rev-A-0

Gyrodata SS Gyro <17-1/2">(100'-803') : 0.26° Inc, 110.50ft MD, 110.50ft TVD, -0.12ft VS

Panther EM <12-1/4">(803'x830'-2527') : 0.22° Inc, 840.50ft MD, 840.50ft TVD, 0.71ft VS

Panther EM <8-3/4">(2645'-5813') : 3.40° Inc, 2655.50ft MD, 2654.86ft TVD, 1.73ft VS

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	5923.50	6.270	332.450	5779.31	486.85	-159.10	5.61	-512.18
Proj. To Bottom	5883.50	6.270	332.450	5638.96	492.66	-162.14	0.00	-518.65
End of 3D Arc	6373.59	42.789	160.095	6290.22	351.13	-114.93	10.00	-389.46
POE	6838.68	76.197	161.739	6523.00	-22.52	13.28	7.19	25.54
Landing Pl.	7030.55	90.000	161.739	6546.00	-202.97	72.82	7.19	215.56
BHL	15902.20	90.000	161.739	6546.00	-8532.92	2821.40	0.00	8987.27

True Vertical Depth (ft)



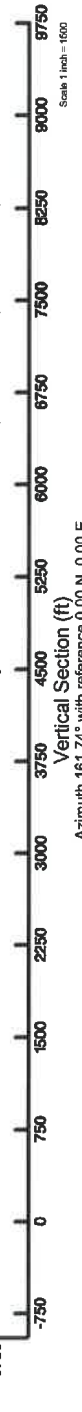
API: 47-095-02519-0000
 BHI Job #: 1096666933
 Rig: H&P 317
 Duration: 02/22/2019-02/26/2019



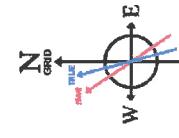
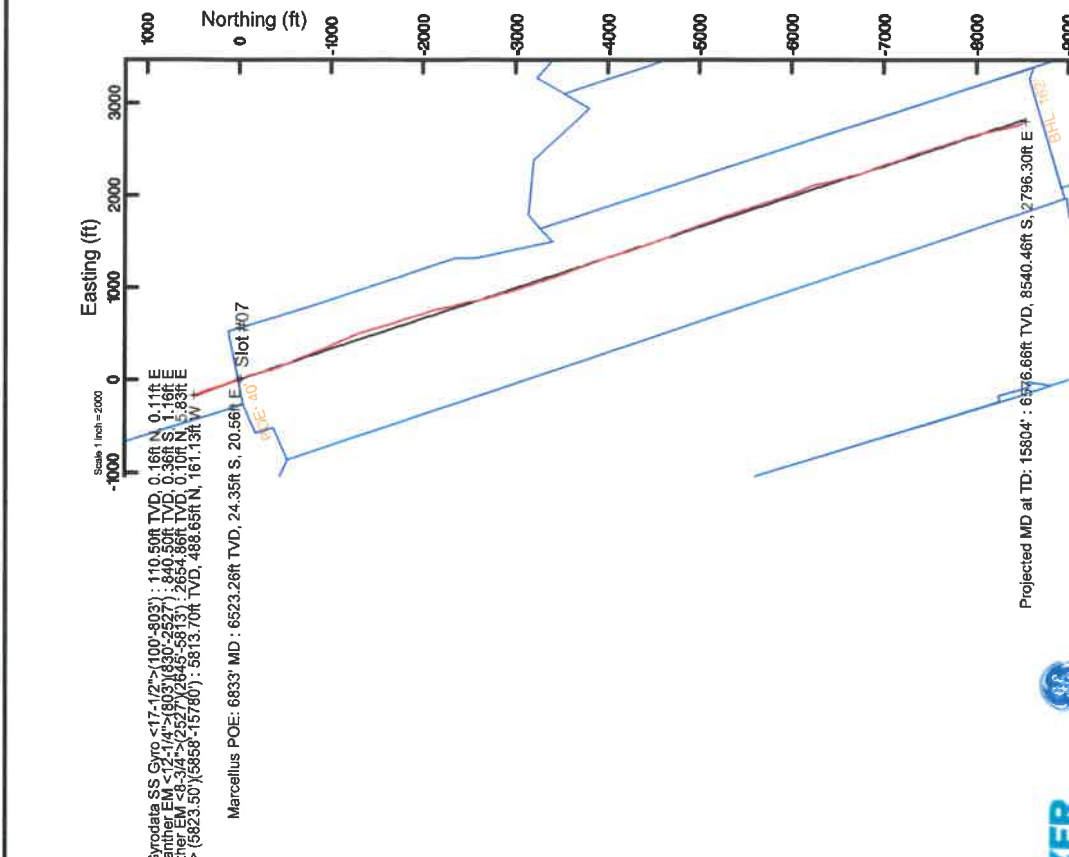
BH AT Curve <8-1/2">(5823.50'x5658'-15780') : 3.86° Inc, 5658.00ft MD, 5813.70ft TVD, -514.53ft VS

Marcellus POE: 6833 MD : 76.45° Inc, 6833.00ft MD, 6523.26ft TVD, 29.57ft VS

Projected MD at TD: 15804 : 89.60° Inc, 15804.00ft MD, 6576.66ft TVD, 8986.56ft VS



Azimuth 161.74° with reference 0.00 N, 0.00 E



User specified (HDGM) Dip: 66.45° Field: 51800 nT
 Magnetic North is 7.64 degrees West of True North (at 22/2019)
 Grid North is 0.06 degrees East of True North
 To correct azimuth from True to Grid subtract 0.06 degrees
 To correct azimuth from Magnetic to Grid subtract 7.72 degrees



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Sarahlene Unit 2H
Field	Tyler	Wellbore	Sarahlene Unit 2H AWB
Facility	Meredith Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 5.1
North Reference	Grid	User	Delaset
Scale	0.999602	Report Generated	3/12/2019 at 10:06:10 AM
Convergence at slot	0.08° East	Database/Source file	WA_MPL_EasternUS_Defm/Sarahlene_Unit_2H_AWP_Proj_15804_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	13.21	42.40	1677204.73	1428887.51	39°20'54.960"N	80°52'11.530"W
Facility Reference Pt			1677162.34	14288874.30	39°20'54.830"N	80°52'12.070"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	25.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1136.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #07)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.74°



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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Operator	ANTERO RESOURCES CORPORATION	Well	Sarahlene Unit 2H
Area	Tyler County, WV	Wellbore	Sarahlene Unit 2H AWB
Field	Tyler		
Facility	Meredith Pad		

WELLPATH DATA (196 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	33.350	0.00	0.00	0.00	0.00	1677204.73	14288887.51	39°20'54.960"N	80°52'11.530"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	33.350	25.50	0.00	0.00	0.00	1677204.73	14288887.51	39°20'54.960"N	80°52'11.530"W	0.00	0.000	0.00	0.00	0.00	
110.50	0.260	33.350	110.50	-0.12	0.16	0.11	1677204.83	14288887.67	39°20'54.962"N	80°52'11.529"W	0.19	33.350	0.31	0.31	39.24	Gyrodata SS Gyro <17-1/2">(100-80.3')
160.50	0.200	31.000	160.50	-0.25	0.33	0.21	1677204.94	14288887.84	39°20'54.963"N	80°52'11.527"W	0.39	32.829	0.12	-0.12	-4.70	
210.50	0.270	359.070	210.50	-0.42	0.52	0.26	1677204.98	14288888.03	39°20'54.965"N	80°52'11.527"W	0.58	26.102	0.29	0.14	-63.86	
260.50	0.130	28.020	260.50	-0.57	0.69	0.28	1677205.01	14288888.20	39°20'54.967"N	80°52'11.526"W	0.75	22.133	0.34	-0.28	57.90	
310.50	0.060	331.110	310.50	-0.63	0.76	0.30	1677205.02	14288888.27	39°20'54.968"N	80°52'11.526"W	0.82	21.116	0.22	-0.14	-113.82	
360.50	0.120	120.650	360.50	-0.62	0.76	0.33	1677205.05	14288888.27	39°20'54.968"N	80°52'11.526"W	0.83	23.303	0.35	0.12	299.08	
410.50	0.110	104.260	410.50	-0.55	0.72	0.42	1677205.15	14288888.23	39°20'54.967"N	80°52'11.525"W	0.83	30.137	0.07	-0.02	-32.78	
460.50	0.190	167.160	460.50	-0.45	0.63	0.48	1677205.21	14288888.14	39°20'54.966"N	80°52'11.524"W	0.79	37.569	0.34	0.16	125.80	
510.50	0.180	167.410	510.50	-0.29	0.47	0.52	1677205.25	14288887.98	39°20'54.965"N	80°52'11.523"W	0.70	47.763	0.02	-0.02	0.50	
560.50	0.180	132.480	560.50	-0.14	0.34	0.59	1677205.32	14288887.85	39°20'54.963"N	80°52'11.522"W	0.69	60.092	0.22	0.00	-69.86	
610.50	0.120	144.420	610.50	-0.02	0.25	0.68	1677205.41	14288887.75	39°20'54.962"N	80°52'11.521"W	0.73	70.163	0.13	-0.12	23.88	
660.50	0.180	141.930	660.50	0.10	0.14	0.76	1677205.49	14288887.65	39°20'54.961"N	80°52'11.520"W	0.77	79.444	0.12	0.12	-4.98	
710.50	0.160	119.110	710.50	0.23	0.05	0.87	1677205.60	14288887.55	39°20'54.960"N	80°52'11.519"W	0.87	86.966	0.14	-0.04	-45.64	
760.50	0.280	159.550	760.50	0.40	-0.10	0.97	1677205.70	14288887.40	39°20'54.959"N	80°52'11.518"W	0.98	95.987	0.38	0.24	80.88	
810.50	0.250	151.510	810.50	0.63	-0.31	1.07	1677205.80	14288887.19	39°20'54.957"N	80°52'11.516"W	1.11	106.290	0.10	-0.06	-16.08	
813.50	0.240	148.730	813.50	0.64	-0.32	1.08	1677205.80	14288887.18	39°20'54.957"N	80°52'11.516"W	1.12	106.743	0.52	-0.33	-92.67	
840.50	0.220	81.570	840.50	0.71	-0.36	1.16	1677205.88	14288887.14	39°20'54.956"N	80°52'11.515"W	1.21	107.489	0.94	-0.07	-248.74	anther EM <12-1/4">(80.3)(830-252.7)
936.50	0.400	32.080	936.49	0.53	-0.05	1.52	1677206.24	14288887.45	39°20'54.959"N	80°52'11.511"W	1.52	92.020	0.32	0.19	-51.55	
1030.50	0.310	12.870	1030.49	0.10	0.47	1.75	1677206.47	14288887.98	39°20'54.965"N	80°52'11.508"W	1.81	74.876	0.16	-0.10	-20.44	
1125.50	0.310	62.180	1125.49	-0.16	0.84	2.03	1677206.76	14288888.35	39°20'54.968"N	80°52'11.504"W	2.20	67.475	0.27	0.00	51.91	
1219.50	0.310	109.290	1219.49	-0.05	0.88	2.50	1677207.22	14288888.38	39°20'54.969"N	80°52'11.498"W	2.65	70.639	0.26	0.00	50.12	
1314.50	0.400	42.090	1314.49	-0.06	1.04	2.96	1677207.69	14288888.55	39°20'54.970"N	80°52'11.492"W	3.14	70.676	0.42	0.09	-70.74	
1407.50	0.310	98.180	1407.49	-0.11	1.24	3.43	1677208.15	14288888.75	39°20'54.972"N	80°52'11.486"W	3.65	70.061	0.37	-0.10	60.31	
1502.50	0.620	64.470	1502.48	-0.06	1.43	4.15	1677208.87	14288888.94	39°20'54.974"N	80°52'11.477"W	4.39	70.989	0.42	0.33	-35.48	
1596.50	0.490	67.380	1596.48	-0.15	1.80	4.98	1677209.70	14288889.31	39°20'54.978"N	80°52'11.467"W	5.29	70.090	0.14	-0.14	3.10	
1690.50	0.490	107.000	1690.48	0.05	1.84	5.73	1677210.46	14288889.35	39°20'54.978"N	80°52'11.457"W	6.02	72.207	0.35	0.00	42.15	
1784.50	0.710	91.570	1784.47	0.48	1.71	6.70	1677211.42	14288889.21	39°20'54.977"N	80°52'11.445"W	6.91	75.711	0.29	0.23	-16.41	
1878.50	1.500	223.690	1878.46	1.25	0.80	6.43	1677211.16	14288888.31	39°20'54.968"N	80°52'11.448"W	6.48	82.905	2.18	0.84	140.55	



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'

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REFERENCE WELLPATH IDENTIFICATION		Slot #07
Operator	ANTERO RESOURCES CORPORATION	Sarahlene Unit 2H
Area	Tyler County, WV	Sarahlene Unit 2H AWB
Field	Tyler	
Facility	Meredith Pad	

WELLPATH DATA (196 stations)																
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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
1973.50	2.700	230.083	1973.40	2.67	-1.53	3.86	1677208.58	14288885.97	39°20'54.945"N	80°52'11.481"W	4.15	111.699	1.29	1.26	6.72	
2067.50	2.920	223.290	2067.28	4.62	-4.70	0.52	1677205.24	14288882.81	39°20'54.914"N	80°52'11.524"W	4.73	173.727	0.42	0.23	-7.22	
2161.50	1.100	178.470	2161.23	6.63	-7.34	-1.10	1677203.63	14288880.17	39°20'54.887"N	80°52'11.544"W	7.43	188.530	2.42	-1.94	-47.68	
2255.50	1.990	94.790	2255.20	8.13	-8.38	0.55	1677205.28	14288879.13	39°20'54.877"N	80°52'11.523"W	8.40	176.250	2.30	0.95	-89.02	
2349.50	3.000	77.870	2349.11	9.03	-8.00	4.58	1677209.31	14288879.51	39°20'54.881"N	80°52'11.472"W	9.22	150.208	1.32	1.07	-18.00	
2443.50	1.990	56.280	2443.02	8.86	-6.58	8.34	1677213.07	14288880.93	39°20'54.895"N	80°52'11.424"W	10.62	128.253	1.45	-1.07	-22.97	
2537.50	1.900	333.680	2536.98	6.88	-4.27	9.01	1677213.73	14288883.23	39°20'54.918"N	80°52'11.415"W	9.97	115.382	2.73	-0.10	-87.87	
2655.50	3.400	318.610	2654.86	1.73	0.10	5.83	1677210.55	14288887.61	39°20'54.961"N	80°52'11.456"W	5.83	88.978	1.39	1.27	-12.77	Panther EM -8-3/4"-(2527'-(2645'-5813'))
2749.50	5.790	332.090	2748.55	-5.51	6.39	1.77	1677206.49	14288893.89	39°20'55.023"N	80°52'11.507"W	6.63	15.456	2.77	2.54	14.34	
2843.50	6.410	331.700	2842.02	-15.36	15.20	-2.94	1677201.79	14288902.70	39°20'55.110"N	80°52'11.567"W	15.48	349.046	0.66	0.66	-0.41	
2937.50	6.410	349.370	2935.44	-25.72	24.97	-6.40	1677198.33	14288912.47	39°20'55.207"N	80°52'11.611"W	25.78	345.633	2.09	0.00	18.80	
3031.50	6.500	347.080	3028.84	-36.22	35.32	-8.55	1677196.18	14288922.81	39°20'55.309"N	80°52'11.638"W	36.34	346.384	0.29	0.10	-2.44	
3125.50	6.500	345.970	3122.23	-46.89	45.73	-1.05	1677193.68	14288933.22	39°20'55.412"N	80°52'11.670"W	47.04	346.415	0.16	0.09	-1.18	
3219.50	7.200	345.890	3213.51	-58.13	56.67	-13.79	1677190.94	14288944.15	39°20'55.520"N	80°52'11.705"W	58.32	346.321	0.66	0.66	-0.09	
3318.50	9.410	346.200	3313.51	-72.39	70.54	-17.24	1677187.50	14288958.02	39°20'55.657"N	80°52'11.748"W	72.62	346.271	2.23	2.23	0.31	
3413.50	10.520	341.570	3407.07	-88.81	86.32	-21.83	1677182.91	14288973.79	39°20'55.813"N	80°52'11.806"W	89.03	345.807	1.44	1.17	-4.87	
3508.50	9.990	338.880	3500.56	-105.71	102.23	-27.54	1677177.20	14288989.70	39°20'55.971"N	80°52'11.879"W	105.87	344.922	0.75	-0.56	-2.83	
3603.50	9.410	335.310	3594.20	-121.66	116.97	-33.75	1677170.99	14289004.43	39°20'56.117"N	80°52'11.958"W	121.75	343.904	0.88	-0.61	-3.76	
3698.50	11.000	343.370	3687.70	-138.44	132.71	-39.59	1677165.15	14289020.17	39°20'56.272"N	80°52'12.032"W	138.49	343.389	2.25	1.67	8.48	
3794.50	10.690	342.100	3781.98	-156.50	149.96	-44.95	1677159.80	14289037.41	39°20'56.443"N	80°52'12.099"W	156.56	343.314	0.41	-0.32	-1.32	
3889.50	9.990	339.280	3875.44	-173.54	166.06	-50.57	1677154.17	14289053.50	39°20'56.602"N	80°52'12.171"W	173.59	343.061	0.91	-0.74	-2.97	
3983.50	11.050	347.080	3967.86	-190.69	182.49	-55.48	1677149.27	14289069.93	39°20'56.764"N	80°52'12.233"W	190.74	343.090	1.91	1.17	8.30	
4077.50	10.690	344.480	4060.17	-208.40	199.71	-59.83	1677144.92	14289087.13	39°20'56.935"N	80°52'12.288"W	208.48	343.321	0.67	-0.43	-2.77	
4172.50	10.780	342.100	4153.50	-226.08	216.65	-64.92	1677139.83	14289104.07	39°20'57.102"N	80°52'12.352"W	226.17	343.318	0.48	0.03	-2.51	
4266.50	10.380	340.200	4245.91	-243.34	232.98	-70.49	1677134.26	14289120.40	39°20'57.264"N	80°52'12.423"W	243.41	343.166	0.56	-0.43	-2.02	
4361.50	10.120	338.570	4339.39	-260.23	248.81	-76.44	1677128.32	14289136.21	39°20'57.420"N	80°52'12.498"W	260.28	342.921	0.41	-0.27	-1.72	
4456.50	9.810	339.590	4432.96	-276.65	264.16	-82.31	1677122.45	14289151.56	39°20'57.572"N	80°52'12.573"W	276.69	342.693	0.38	-0.33	1.07	
4551.50	10.690	348.000	4526.45	-293.50	280.36	-86.97	1677117.79	14289167.76	39°20'57.732"N	80°52'12.632"W	293.54	342.766	1.83	0.93	8.85	
4647.50	10.910	347.380	4620.74	-311.39	297.94	-90.80	1677113.96	14289185.33	39°20'57.906"N	80°52'12.680"W	311.47	343.050	0.26	0.23	-0.65	
4742.50	10.610	344.300	4714.08	-329.07	315.13	-95.14	1677109.63	14289202.51	39°20'58.076"N	80°52'12.735"W	329.18	343.201	0.68	-0.32	-3.24	



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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Area	Tyler County, WV	Sarahlene Unit 2H AWB
Field	Tyler	
Facility	Meredith Pad	

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4838.50	10.383	343.200	4808.47	-346.55	331.92	-100.03	1677104.74	14289219.29	39°20'58.242"N	80°52'12.797"W	346.66	343.229	0.32	-0.24	-1.15	
4933.50	9.903	341.880	4901.99	-363.27	347.87	-105.04	1677099.73	14289235.24	39°20'58.400"N	80°52'12.861"W	363.39	343.198	0.56	-0.51	-1.38	
5028.50	9.410	339.890	4995.64	-379.20	362.93	-110.25	1677094.52	14289250.29	39°20'58.549"N	80°52'12.927"W	379.30	343.102	0.62	-0.52	-2.09	
5123.50	9.410	337.210	5089.36	-394.70	377.38	-115.93	1677088.85	14289264.74	39°20'58.692"N	80°52'12.999"W	394.79	342.923	0.46	0.00	-2.82	
5219.50	8.790	334.780	5184.15	-409.81	391.25	-122.09	1677082.68	14289278.60	39°20'58.829"N	80°52'13.077"W	409.86	342.669	0.76	-0.65	-2.53	
5314.50	10.383	341.880	5277.83	-425.57	405.95	-127.85	1677076.93	14289293.30	39°20'58.974"N	80°52'13.150"W	425.61	342.519	2.08	1.67	7.47	
5408.50	9.991	341.170	5370.35	-442.19	421.72	-133.11	1677071.67	14289309.06	39°20'59.130"N	80°52'13.217"W	442.23	342.482	0.44	-0.41	-0.76	
5502.50	9.720	338.090	5462.96	-458.26	436.80	-138.71	1677066.08	14289324.13	39°20'59.279"N	80°52'13.288"W	458.29	342.383	0.63	-0.29	-3.28	
5596.50	9.720	336.590	5555.61	-474.09	451.44	-144.92	1677059.96	14289338.77	39°20'59.424"N	80°52'13.365"W	474.10	342.214	0.27	0.00	-1.60	
5691.50	11.310	340.510	5649.01	-491.39	467.59	-151.12	1677053.67	14289354.91	39°20'59.584"N	80°52'13.445"W	491.40	342.090	1.83	1.67	4.13	
5786.50	8.310	335.570	5742.61	-507.53	482.62	-157.06	1677047.73	14289369.94	39°20'59.732"N	80°52'13.520"W	507.54	341.973	3.28	-3.16	-5.20	
5823.50	6.270	332.450	5779.31	-512.18	486.85	-159.10	1677045.69	14289374.16	39°20'59.774"N	80°52'13.546"W	512.19	341.902	5.61	-5.51	-8.43	
5858.00	3.860	276.250	5813.70	-514.53	488.65	-161.13	1677043.66	14289375.96	39°20'59.792"N	80°52'13.572"W	514.53	341.750	15.13	-8.99	-162.90	BHAT Curve <8-1/2"> (5823.50)\(5858'-15780')
5914.00	5.740	228.610	5869.52	-514.21	487.00	-165.11	1677039.68	14289374.31	39°20'59.776"N	80°52'13.623"W	514.23	341.272	7.57	3.36	-85.07	
5961.00	7.610	205.250	5916.20	-511.03	482.63	-168.20	1677036.59	14289369.94	39°20'59.733"N	80°52'13.662"W	511.10	340.786	6.94	3.98	-49.70	
6008.00	8.850	177.590	5962.74	-505.29	476.20	-169.38	1677035.42	14289363.52	39°20'59.669"N	80°52'13.677"W	505.42	340.420	8.73	2.64	-58.85	
6055.00	11.750	165.010	6008.98	-497.03	467.96	-167.99	1677036.81	14289355.28	39°20'59.588"N	80°52'13.660"W	497.20	340.253	7.77	6.17	-26.77	
6103.00	15.620	164.160	6055.61	-485.69	457.02	-164.96	1677039.84	14289344.34	39°20'59.479"N	80°52'13.621"W	485.88	340.153	8.07	8.06	-1.77	
6150.00	20.260	157.060	6100.32	-471.25	443.43	-160.05	1677044.74	14289330.76	39°20'59.345"N	80°52'13.559"W	471.43	340.153	10.90	9.87	-15.11	
6198.00	24.530	154.160	6144.69	-453.08	426.80	-152.47	1677052.32	14289314.14	39°20'59.180"N	80°52'13.463"W	453.22	340.341	9.19	8.90	-6.04	
6245.00	29.210	155.900	6186.60	-431.99	407.54	-143.53	1677061.26	14289294.88	39°20'58.990"N	80°52'13.350"W	432.07	340.599	10.10	9.96	3.70	
6293.00	33.770	158.500	6227.53	-407.00	384.42	-133.85	1677070.93	14289271.77	39°20'58.761"N	80°52'13.227"W	407.06	340.803	9.91	9.50	5.44	
6340.00	37.800	159.520	6265.65	-379.56	358.76	-124.02	1677080.76	14289246.13	39°20'58.508"N	80°52'13.102"W	379.60	340.930	8.67	8.57	2.17	
6387.00	41.910	159.820	6301.72	-349.46	330.53	-113.56	1677091.21	14289217.90	39°20'58.228"N	80°52'12.969"W	349.49	341.039	8.75	8.74	0.64	
6434.00	46.180	160.760	6335.49	-316.81	299.77	-102.55	1677102.22	14289187.16	39°20'57.924"N	80°52'12.830"W	316.83	341.114	9.19	9.09	2.00	
6447.00†	47.163	160.715	6344.41	-307.35	290.84	-99.43	1677105.33	14289178.23	39°20'57.836"N	80°52'12.790"W	307.37	341.125	7.61	7.60	-0.35	Middlesex: 6447' MD
6482.00	49.830	160.600	6367.60	-281.15	266.11	-90.75	1677114.01	14289153.51	39°20'57.591"N	80°52'12.680"W	281.16	341.169	7.61	7.60	-0.33	
6529.00	53.860	159.100	6396.63	-244.22	231.43	-78.01	1677126.75	14289118.84	39°20'57.248"N	80°52'12.519"W	244.22	341.372	8.93	8.57	-3.18	
6577.00	57.220	157.810	6423.79	-204.71	194.63	-63.47	1677141.28	14289082.05	39°20'56.885"N	80°52'12.334"W	204.71	341.938	7.34	7.00	-2.63	
6624.00	61.120	157.430	6447.87	-164.47	157.32	-48.11	1677156.64	14289044.76	39°20'56.516"N	80°52'12.139"W	164.51	342.997	8.33	8.30	-0.81	



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Sarahlene Unit 2H
Field	Tyler	Wellbore	Sarahlene Unit 2H AWB
Facility	Meredith Pad		

WELLPATH DATA (196 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
6641.00†	62.324	157.726	6455.93	-149.54	143.48	-42.40	1677162.35	142889030.93	39°20'56.379"N	80°52'12.067"W	149.61	343.538	7.24	7.08	1.74	Burkett: 6641' MD
6672.00	64.520	158.250	6469.80	-121.87	117.77	-32.01	1677172.73	142889009.23	39°20'56.124"N	80°52'11.935"W	122.06	344.797	7.24	7.09	1.63	
6719.00	68.010	159.420	6488.71	-78.91	77.66	-16.48	1677188.25	142889665.13	39°20'55.728"N	80°52'11.736"W	79.39	348.019	7.77	7.43	2.43	
6725.00†	68.475	159.507	6490.94	-73.34	72.44	-14.53	1677190.21	14288959.92	39°20'55.676"N	80°52'11.714"W	73.88	348.662	7.86	7.74	1.46	Tully: 6725' MD
6766.00	71.650	160.090	6504.92	-34.83	36.27	-1.22	1677203.51	14288923.76	39°20'55.319"N	80°52'11.545"W	36.29	358.075	7.86	7.75	1.42	
6813.00	75.120	160.300	6518.35	10.19	-6.10	14.04	1677218.76	14288881.41	39°20'54.900"N	80°52'11.351"W	15.30	113.475	7.40	7.38	0.45	
6833.00†	76.453	160.401	6523.26	29.57	-24.35	20.56	1677225.28	14288863.16	39°20'54.719"N	80°52'11.269"W	31.87	139.834	6.68	6.67	0.50	Marcellus POE: 6833' MD
6861.00	78.320	160.540	6529.38	56.89	-50.11	29.69	1677234.41	14288867.42	39°20'54.464"N	80°52'11.153"W	58.24	149.351	6.68	6.67	0.50	
6908.00	81.790	162.540	6537.49	103.17	-94.01	44.34	1677249.05	14288793.53	39°20'54.030"N	80°52'10.967"W	103.94	154.748	8.49	7.38	4.28	
6956.00	84.820	164.530	6543.09	150.81	-139.72	57.85	1677262.55	14288747.84	39°20'53.578"N	80°52'10.796"W	151.22	157.509	7.54	6.31	4.15	
7003.00	88.950	166.460	6545.64	197.63	-185.14	69.60	1677274.30	14288702.44	39°20'53.129"N	80°52'10.647"W	197.79	159.398	9.70	8.79	4.11	
7051.00	89.940	166.410	6546.11	245.46	-231.80	80.86	1677285.55	14288656.80	39°20'52.668"N	80°52'10.505"W	245.50	160.770	2.07	2.06	-0.10	
7146.00	90.150	163.010	6546.03	340.32	-323.43	105.90	1677310.59	14288564.21	39°20'51.762"N	80°52'10.188"W	340.32	161.869	3.59	0.22	-3.56	
7241.00	90.000	160.330	6545.91	435.31	-413.60	135.78	1677340.45	14288474.08	39°20'50.870"N	80°52'09.809"W	435.31	161.826	2.83	-0.16	-2.82	
7335.00	90.090	157.470	6545.84	529.19	-501.29	169.61	1677374.27	14288386.42	39°20'50.003"N	80°52'09.380"W	529.20	161.306	3.04	0.10	-3.04	
7430.00	90.090	157.230	6545.69	623.91	-588.96	206.20	1677410.84	14288298.78	39°20'49.136"N	80°52'08.916"W	624.01	160.704	0.25	0.00	-0.25	
7525.00	89.910	158.590	6545.69	718.70	-676.98	241.92	1677446.55	14288210.80	39°20'48.266"N	80°52'08.463"W	718.91	160.335	1.44	-0.19	1.43	
7620.00	90.520	158.780	6544.49	808.38	-765.48	276.46	1677481.07	14288122.33	39°20'47.390"N	80°52'08.025"W	813.88	160.143	0.67	0.64	0.20	
7715.00	90.490	157.780	6544.49	908.38	-853.73	311.61	1677516.21	14288034.11	39°20'46.518"N	80°52'07.579"W	908.83	159.948	1.05	-0.03	-1.05	
7810.00	92.400	157.800	6542.10	1003.12	-941.65	347.51	1677552.10	14287946.23	39°20'45.648"N	80°52'07.124"W	1003.73	159.744	2.01	2.01	0.02	
7905.00	91.360	155.120	6538.98	1097.66	-1028.69	385.43	1677590.00	14287859.23	39°20'44.787"N	80°52'06.643"W	1098.53	159.460	3.02	-1.09	-2.82	
7999.00	89.720	156.140	6538.09	1191.11	-1114.31	424.21	1677628.77	14287773.64	39°20'43.941"N	80°52'06.151"W	1192.32	159.159	2.05	-1.74	1.08	
8094.00	89.850	158.580	6538.45	1285.83	-1201.98	460.78	1677665.32	14287686.01	39°20'43.073"N	80°52'05.687"W	1287.27	159.026	2.57	0.14	2.57	
8189.00	90.740	159.480	6537.96	1380.72	-1290.69	494.77	1677699.30	14287597.34	39°20'42.196"N	80°52'05.256"W	1382.27	159.026	1.33	0.94	0.95	
8284.00	88.710	160.680	6538.42	1475.67	-1379.99	527.14	1677731.65	14287508.07	39°20'41.313"N	80°52'04.846"W	1477.25	159.094	2.48	-2.14	1.26	
8379.00	88.740	163.350	6540.53	1570.64	-1470.32	556.46	1677760.97	14287417.77	39°20'40.420"N	80°52'04.474"W	1572.10	159.270	2.81	0.03	2.81	
8474.00	90.860	164.670	6540.86	1665.56	-1561.64	582.63	1677787.12	14287326.49	39°20'39.517"N	80°52'04.143"W	1666.78	159.540	2.63	2.23	1.33	
8568.00	91.290	161.790	6539.10	1759.50	-1651.62	609.74	1677814.23	14287236.55	39°20'38.627"N	80°52'03.799"W	1760.57	159.737	3.10	0.46	-3.08	
8663.00	89.570	159.160	6538.39	1854.46	-1741.14	641.49	1677845.96	14287147.07	39°20'37.742"N	80°52'03.397"W	1855.55	159.775	3.31	-1.81	-2.77	
8758.00	89.420	164.880	6539.22	1949.42	-1831.46	670.80	1677875.26	14287056.78	39°20'36.849"N	80°52'03.025"W	1950.44	159.884	6.02	-0.16	6.02	



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #07
ANTERO RESOURCES CORPORATION	Well	Sarahlene Unit 2H
Tyler County, WV	Wellbore	Sarahlene Unit 2H AWB
Tyler		
Facility		
		Meredith Pad

WELLPATH DATA (196 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 (P/100ft)	Build Rate (P/100ft)	Turn Rate (P/100ft)	Comments
8853.00	89.540	164.160	6540.09	2044.30	-1923.01	696.15	167900.60	14286665.27	39°20'35.944"N	80°52'02.704"W	2045.14	160.099	0.77	0.13	-0.78	
8948.00	89.880	162.070	6540.57	2139.27	-2013.91	723.75	167928.18	142866874.41	39°20'35.045"N	80°52'02.355"W	2140.01	160.233	2.23	0.36	-2.20	
9043.00	89.080	163.240	6541.43	2234.25	-2104.58	752.07	167956.49	14286783.77	39°20'34.148"N	80°52'01.996"W	2234.92	160.336	1.49	-0.84	1.23	
9138.00	88.680	167.100	6543.29	2329.04	-2196.38	776.37	167980.79	14286692.01	39°20'33.241"N	80°52'01.689"W	2329.56	160.533	4.08	-0.42	4.06	
9233.00	90.490	167.910	6543.98	2423.55	-2289.12	796.92	167800.33	14286699.30	39°20'32.324"N	80°52'01.429"W	2423.88	160.805	2.09	1.91	0.85	
9328.00	89.660	164.330	6543.85	2518.26	-2381.33	819.71	167802.41	142866507.13	39°20'31.412"N	80°52'01.140"W	2518.47	161.005	3.87	-0.87	-3.77	
9423.00	89.820	168.480	6544.28	2612.92	-2473.65	842.03	167804.42	142866414.85	39°20'30.499"N	80°52'00.858"W	2613.04	161.201	4.37	0.17	4.37	
9517.00	90.680	169.840	6543.87	2706.13	-2565.97	859.71	167806.40	142866322.57	39°20'29.587"N	80°52'00.635"W	2706.16	161.477	1.71	0.91	1.45	
9612.00	90.220	165.390	6543.13	2800.61	-2658.73	880.08	167808.46	142866229.84	39°20'28.669"N	80°52'00.377"W	2800.61	161.685	4.71	-0.48	-4.68	
9707.00	89.820	163.430	6543.09	2895.50	-2750.23	905.61	1678109.98	142866138.38	39°20'27.765"N	80°52'00.064"W	2895.50	161.774	2.11	-0.42	-2.06	
9802.00	89.910	164.690	6543.32	2990.42	-2841.58	931.70	1678136.06	142866047.07	39°20'26.862"N	80°51'59.724"W	2990.42	161.847	1.33	0.09	1.33	
9897.00	90.280	164.210	6543.16	3085.31	-2933.10	957.17	1678161.51	14285955.58	39°20'25.957"N	80°51'59.401"W	3085.33	161.927	0.64	0.39	-0.51	
9992.00	89.940	161.960	6542.98	3180.28	-3023.98	984.81	1678189.14	14285864.74	39°20'25.058"N	80°51'59.051"W	3180.30	161.961	2.40	-0.36	-2.37	
10087.00	89.940	161.360	6543.08	3275.28	-3114.16	1014.70	1678219.02	14285774.60	39°20'24.166"N	80°51'58.672"W	3275.30	161.953	0.63	0.00	-0.63	
10182.00	89.970	161.810	6543.15	3370.28	-3204.29	1044.71	1678249.02	14285684.50	39°20'23.275"N	80°51'58.292"W	3370.30	161.942	0.47	0.03	0.47	
10276.00	89.850	162.440	6543.30	3464.27	-3293.75	1073.56	1678277.86	14285595.07	39°20'22.390"N	80°51'57.927"W	3464.30	161.947	0.68	-0.13	0.67	
10371.00	89.720	160.770	6543.65	3559.27	-3383.90	1103.54	1678307.83	14285504.97	39°20'21.499"N	80°51'57.547"W	3559.29	161.938	1.76	-0.14	-1.76	
10466.00	89.690	159.910	6544.14	3654.24	-3473.36	1135.50	1678339.77	14285415.54	39°20'20.614"N	80°51'57.142"W	3654.25	161.897	0.91	-0.03	-0.91	
10561.00	89.750	160.180	6544.61	3749.20	-3562.65	1167.92	1678372.18	14285326.28	39°20'19.731"N	80°51'56.731"W	3749.20	161.850	0.29	0.06	0.28	
10656.00	90.090	157.360	6544.74	3844.06	-3651.19	1202.32	1678406.56	14285237.77	39°20'18.956"N	80°51'56.295"W	3844.06	161.774	2.99	0.36	-2.97	
10751.00	89.570	155.990	6545.02	3938.69	-3738.43	1239.93	1678444.16	14285150.58	39°20'17.993"N	80°51'55.818"W	3938.69	161.651	1.54	-0.55	-1.44	
10846.00	89.660	161.030	6545.66	4033.50	-3826.79	1274.72	1678478.94	14285062.25	39°20'17.119"N	80°51'55.376"W	4033.52	161.577	5.31	0.09	5.31	
10940.00	89.630	163.610	6546.24	4127.49	-3916.34	1303.27	1678507.47	14284972.73	39°20'16.233"N	80°51'55.015"W	4127.50	161.594	2.74	-0.03	2.74	
11035.00	89.660	163.960	6546.83	4222.42	-4007.56	1329.80	1678533.99	14284881.55	39°20'15.332"N	80°51'54.679"W	4222.43	161.643	0.37	0.03	0.37	
11130.00	89.720	163.720	6547.35	4317.36	-4098.81	1356.24	1678560.42	14284790.34	39°20'14.429"N	80°51'54.344"W	4317.36	161.691	0.26	0.06	-0.25	
11224.00	89.570	162.620	6547.88	4411.33	-4188.78	1383.45	1678587.62	14284700.41	39°20'13.540"N	80°51'53.999"W	4411.33	161.723	1.17	-0.10	-1.17	
11319.00	89.570	162.060	6548.54	4506.32	-4279.30	1412.27	1678616.43	14284609.92	39°20'12.645"N	80°51'53.634"W	4506.32	161.736	0.59	-0.06	-0.59	
11414.00	89.660	161.100	6549.18	4601.32	-4369.43	1442.29	1678646.44	14284519.83	39°20'11.753"N	80°51'53.254"W	4601.32	161.733	1.01	0.09	-1.01	
11509.00	89.540	160.150	6549.84	4696.29	-4459.05	1473.80	1678677.94	14284430.25	39°20'10.867"N	80°51'52.855"W	4696.29	161.710	1.01	-0.13	-1.00	
11603.00	89.570	158.870	6550.57	4790.22	-4547.09	1506.70	1678710.83	14284342.23	39°20'09.996"N	80°51'52.438"W	4790.22	161.667	1.36	0.03	-1.36	



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #07
Operator	ANTERO RESOURCES CORPORATION		
Area	Tyler County, WV		
Field	Tyler		
Well	Sarahlene Unit 2H		
Wellbore	Sarahlene Unit 2H AWB		
Facility	Meredith Pad		

WELLPATH DATA (196 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 (P/100ft)	Build Rate (P/100ft)	Turn Rate (T/100ft)	Comments
11698.00	89.570	159.620	6551.29	4885.12	-4635.93	1540.37	1678744.48	14284253.44	39°20'09.118"N	80°51'52.011"W	4885.14	161.620	0.79	0.00	0.79	
11793.00	89.510	159.790	6552.05	4980.06	-4725.03	1573.32	1678777.42	14284164.37	39°20'08.237"N	80°51'51.593"W	4980.08	161.583	0.19	-0.06	0.18	
11888.00	89.720	160.070	6552.69	5075.01	-4814.25	1605.92	1678810.00	14284075.18	39°20'07.354"N	80°51'51.180"W	5075.04	161.553	0.37	0.22	0.29	
11982.00	89.540	159.420	6553.30	5168.95	-4902.44	1638.46	1678842.53	14283987.03	39°20'06.482"N	80°51'50.768"W	5168.99	161.520	0.72	-0.19	-0.69	
12077.00	89.510	159.740	6554.08	5263.88	-4991.47	1671.60	1678875.66	14283898.04	39°20'05.602"N	80°51'50.347"W	5263.93	161.485	0.34	-0.03	0.34	
12171.00	89.510	161.270	6554.89	5357.85	-5080.07	1702.97	1678907.02	14283809.47	39°20'04.726"N	80°51'49.950"W	5357.91	161.467	1.63	0.00	1.63	
12266.00	89.600	160.980	6555.63	5452.84	-5169.96	1733.70	1678937.74	14283719.62	39°20'03.837"N	80°51'49.561"W	5452.91	161.462	0.32	0.09	-0.31	
12361.00	89.660	160.900	6556.24	5547.83	-5259.75	1764.73	1678968.75	14283629.86	39°20'02.949"N	80°51'49.167"W	5547.90	161.463	0.11	0.06	-0.08	
12456.00	89.540	161.040	6556.89	5641.82	-5348.61	1795.38	1678999.38	14283541.04	39°20'02.070"N	80°51'48.779"W	5641.90	161.445	0.20	-0.13	0.15	
12550.00	89.780	161.270	6557.46	5736.82	-5438.52	1826.06	1679030.06	14283451.17	39°20'01.181"N	80°51'48.390"W	5736.89	161.440	0.35	0.25	0.24	
12645.00	89.540	162.620	6558.02	5831.81	-5528.83	1856.50	1679059.49	14283360.89	39°20'00.288"N	80°51'48.017"W	5831.89	161.448	1.44	-0.25	1.42	
12740.00	89.540	161.770	6558.78	5926.80	-5619.28	1884.55	1679088.52	14283270.48	39°19'59.394"N	80°51'47.649"W	5926.88	161.460	0.89	0.00	-0.89	
12834.00	89.450	161.840	6559.61	6020.80	-5708.58	1913.90	1679117.86	14283181.22	39°19'58.511"N	80°51'47.278"W	6020.87	161.465	0.12	-0.10	0.07	
12929.00	89.480	163.300	6560.50	6115.78	-5799.21	1942.36	1679146.31	14283090.62	39°19'57.614"N	80°51'46.917"W	6115.85	161.483	1.54	0.03	1.54	
13023.00	90.280	162.340	6560.70	6209.77	-5889.01	1970.12	1679174.06	14283000.85	39°19'56.726"N	80°51'46.566"W	6209.82	161.503	1.33	0.85	-1.02	
13117.00	89.660	158.670	6560.75	6303.73	-5977.61	2001.49	1679205.41	14282912.29	39°19'55.850"N	80°51'46.168"W	6303.79	161.488	3.96	-0.66	-3.90	
13212.00	89.260	157.510	6561.64	6398.53	-6065.74	2036.93	1679240.84	14282824.20	39°19'54.979"N	80°51'45.719"W	6398.62	161.437	1.29	-0.42	-1.22	
13306.00	88.460	158.490	6563.51	6492.31	-6152.88	2072.14	1679276.04	14282737.09	39°19'54.117"N	80°51'45.273"W	6492.43	161.388	1.35	-0.85	1.04	
13401.00	89.450	163.330	6565.25	6587.25	-6242.61	2103.19	1679307.08	14282647.40	39°19'53.230"N	80°51'44.879"W	6587.38	161.381	5.20	1.04	5.09	
13496.00	90.090	168.220	6565.63	6681.99	-6334.67	2126.53	1679330.41	14282555.38	39°19'52.319"N	80°51'44.584"W	6682.08	161.443	5.19	0.67	5.15	
13591.00	89.850	166.500	6565.68	6776.53	-6427.36	2147.32	1679351.18	14282462.72	39°19'51.403"N	80°51'44.321"W	6776.57	161.526	1.83	-0.25	-1.81	
13686.00	89.630	163.910	6566.11	6871.34	-6519.20	2171.57	1679375.43	14282370.91	39°19'50.495"N	80°51'44.014"W	6871.37	161.577	2.74	-0.23	-2.73	
13780.00	89.850	165.350	6566.53	6965.22	-6609.84	2196.49	1679400.34	14282280.32	39°19'49.599"N	80°51'43.699"W	6965.24	161.618	1.55	0.23	1.53	
13875.00	90.890	165.030	6565.92	7060.05	-6701.68	2220.77	1679424.61	14282188.51	39°19'48.691"N	80°51'43.392"W	7060.05	161.666	1.15	1.09	-0.34	
13970.00	89.660	160.820	6565.47	7155.00	-6792.47	2248.66	1679452.48	14282097.76	39°19'47.793"N	80°51'43.039"W	7155.00	161.683	4.62	-1.29	-4.43	
14065.00	89.780	168.300	6565.93	7249.92	-6881.48	2281.83	1679485.64	14282008.78	39°19'46.913"N	80°51'42.618"W	7249.93	161.655	2.66	0.13	-2.65	
14160.00	89.200	159.960	6566.78	7344.82	-6970.24	2315.67	1679519.47	14281920.06	39°19'46.035"N	80°51'42.189"W	7344.83	161.622	1.85	-0.61	1.75	
14255.00	89.510	162.860	6567.84	7439.80	-7060.27	2345.95	1679549.74	14281830.07	39°19'45.145"N	80°51'41.806"W	7439.82	161.620	3.07	0.33	3.05	
14350.00	89.510	160.180	6568.66	7534.79	-7150.36	2376.06	1679579.84	14281740.01	39°19'44.254"N	80°51'41.424"W	7534.80	161.618	2.82	0.00	-2.82	
14445.00	89.690	159.410	6569.32	7629.73	-7239.51	2408.87	1679612.63	14281650.90	39°19'43.372"N	80°51'41.008"W	7629.75	161.596	0.83	0.19	-0.81	



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #07
ANTERO RESOURCES CORPORATION	Sarahlene Unit 2H
Tyler County, WV	Sarahlene Unit 2H AWB
Tyler	
Meredith Pad	

WELLPATH DATA (196 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
14538.00	89.600	160.470	6569.90	7722.88	-7326.86	2440.77	1679644.52	14281563.58	39°19'42.508"N	80°51'40.604"W	7722.71	161.576	1.14	-0.10	1.14	
14632.00	89.630	161.880	6570.53	7816.67	-7415.83	2471.10	1679674.84	14281474.65	39°19'41.628"N	80°51'40.220"W	7816.70	161.571	1.50	0.03	1.50	
14727.00	89.570	162.660	6571.19	7911.66	-7506.31	2500.03	1679703.76	14281384.20	39°19'40.734"N	80°51'39.854"W	7911.69	161.579	0.82	-0.06	0.82	
14822.00	89.540	162.800	6571.93	8006.65	-7597.03	2528.23	1679731.95	14281293.52	39°19'39.837"N	80°51'39.496"W	8006.67	161.593	0.15	-0.03	0.15	
14917.00	89.630	163.000	6572.62	8101.62	-7687.83	2556.16	1679759.87	14281202.76	39°19'38.939"N	80°51'39.143"W	8101.65	161.608	0.23	0.09	0.21	
15012.00	89.780	162.570	6573.11	8196.61	-7778.57	2584.28	1679787.97	14281112.05	39°19'38.041"N	80°51'38.787"W	8196.62	161.622	0.48	0.16	-0.45	
15107.00	89.600	162.180	6573.62	8291.60	-7869.11	2613.04	1679816.73	14281021.55	39°19'37.146"N	80°51'38.423"W	8291.61	161.631	0.45	-0.19	-0.41	
15202.00	89.450	163.520	6574.41	8386.58	-7959.88	2641.06	1679844.73	14280930.82	39°19'36.249"N	80°51'38.068"W	8386.59	161.644	1.42	-0.16	1.41	
15297.00	89.480	166.740	6575.30	8481.39	-8051.68	2665.43	1679869.09	14280839.05	39°19'35.341"N	80°51'37.759"W	8481.40	161.683	3.39	0.03	3.39	
15391.00	89.630	169.170	6576.03	8574.83	-8143.60	2685.04	1679888.70	14280747.17	39°19'34.432"N	80°51'37.512"W	8574.83	161.752	2.59	0.16	2.59	
15486.00	89.600	167.450	6576.66	8669.20	-8236.63	2704.29	1679907.94	14280654.18	39°19'33.512"N	80°51'37.269"W	8669.21	161.824	1.81	-0.03	-1.81	
15580.00	90.030	166.770	6576.97	8762.79	-8328.26	2725.26	1679928.90	14280562.59	39°19'32.606"N	80°51'37.004"W	8762.81	161.880	0.86	0.46	-0.72	
15675.00	90.550	161.360	6576.49	8857.67	-8419.57	2751.33	1679954.96	14280471.31	39°19'31.703"N	80°51'36.674"W	8857.71	161.904	5.72	0.55	-5.69	
15769.00	89.540	158.620	6576.41	8951.62	-8507.89	2783.50	1679987.11	14280383.03	39°19'30.830"N	80°51'36.266"W	8951.65	161.884	3.11	-1.07	-2.91	
15760.00	89.600	158.530	6576.50	8962.60	-8518.13	2787.51	1679991.12	14280372.79	39°19'30.729"N	80°51'36.215"W	8962.63	161.880	0.98	0.55	-0.82	
15804.00	89.600	158.530	6576.66	8986.56	-8540.46	2796.30	1679999.90	14280350.47	39°19'30.508"N	80°51'36.104"W	8986.59	161.871	0.00	0.00	0.00	Projected MD at TD: 15804'



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Sarahlene Unit 2H
Field	Tyler	Wellbore	Sarahlene Unit 2H AWB
Facility	Meredith Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Sarahlene Unit 2H AWB Ref Wellpath: Sarahlene Unit 2H AWP Proj: 15804'										
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]	End E/W [ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.14	0.00	0.09
17.5in Open Hole	105.50	824.40	718.90	105.50	824.40	0.14	0.09	-0.35	0.09	1.10
13.375in Casing Surface	25.50	824.40	798.90	25.50	824.40	0.00	0.00	-0.35	0.00	1.10
12.25in Open Hole	823.50	2617.50	1794.00	823.50	2616.91	-0.35	1.10	-1.50	1.10	7.17
9.625in Casing Intermediate	25.50	2617.50	2592.00	25.50	2616.91	0.00	0.00	-1.50	0.00	7.17
8.75in Open Hole	2617.50	5883.50	3266.00	2616.91	5839.13	-1.50	7.17	488.41	7.17	-162.89
8.5in Open Hole	5883.50	15804.00	9920.50	5839.13	6576.66	488.41	-162.89	-8540.46	-162.89	2796.30
5.5in Casing Production	25.50	15804.00	15778.50	25.50	6576.66	0.00	0.00	-8540.46	0.00	2796.30

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Sarahlene Unit 2H - POE - Rev-1	6523.00	-22.52	13.28	1677218.00	14288865.00	39°20'54.73"N	80°52'11.361"W	point
Sarahlene Unit 2H - BHL - Rev-1	6546.00	-8532.92	2821.40	1680025.00	14280358.00	39°19'30.582"N	80°51'35.784"W	point
Sarahlene Unit 2H - LP - Rev-1	6546.00	-202.97	72.82	1677277.52	14288684.62	39°20'52.953"N	80°52'10.607"W	point



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Sarahlene Unit 2H
Field	Tyler	Wellbore	Sarahlene Unit 2H AWB
Facility	Meredith Pad		

WELLPATH COMPOSITION - Ref Wellbore: Sarahlene Unit 2H AWB Ref Wellpath: Sarahlene Unit 2H AWP Proj: 15804'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.50	813.50	Gyrodata standard - Single-shot	01 Gyrodata SS GYRO <17-1/2'> (100'-803')	Sarahlene Unit 2H AWB
813.50	2537.50	ISWWSA MWD, Rev. 4 (Standard)	02 Panther EM <12-1/4'> (803') (830'-2527')	Sarahlene Unit 2H AWB
2537.50	5823.50	ISWWSA MWD, Rev. 4 (Standard)	03 Panther EM <8-3/4'> (2527') (2645'-5813')	Sarahlene Unit 2H AWB
5823.50	15780.00	BH1 AutoTrak Curve (Extreme Short spacing)	04 BH/AT Curve <8-1/2'> (5823.50') (5859'-15780')	Sarahlene Unit 2H AWB
15780.00	15804.00	Blind Drilling (std)	Projection to bit	Sarahlene Unit 2H AWB



Actual Wellpath Report

Sarahlene Unit 2H AWP Proj: 15804'
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REFERENCE WELLPATH IDENTIFICATION

Operator:	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Sarahlene Unit 2H
Field	Tyler	Wellbore	Sarahlene Unit 2H AWB
Facility	Meredith Pad		

COMMENTS

Wellpath general comments
 API: 47-095-02519-0000
 BH Job #: 109666933
 Rig: H&P 317
 Duration: 02/22/2019-02/26/2019
 Gyrodata SS Gyro <17'-1/2">-(100'-803')
 Panther EM <12-1/4">-(803')(830'-2527')
 Panther EM <8-3/4">-(2527')(2645'-5813')
 BH AT Curve <8-1/2"> (5823.50')(5858'-15780')
 Middlesex: 6447' MD
 Burkett: 6641' MD
 Tully: 6725' MD
 Marcellus POE: 6833' MD
 Projected MD at TD: 15804'