

# ANTERO RESOURCES CORPORATION

Location: Tyler County, WV  
 Field: Tyler  
 Facility: Meredith Pad  
 Location: Slot #03  
 Well: Sterling Unit 3H  
 Wellbore: Sterling Unit 3H PWB

Grid System: NAD83 / UTM Zone 17 North, US feet  
 True vertical depth is Sterling Unit 3H PWB Rev-A.0  
 North Reference: Grid north  
 Scale: True distance  
 Measured depths are referenced to H&P 317 (RXB)  
 H&P 317 (RXB) to Mean Sea Level: 1152.6 feet  
 Mean Sea Level to Ground level (At Slot #03): -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	1977462.341	14288624.268	38°20'54.930"N	80°52'12.070"W
Slot #03	-33.84	-105.22	38°20'54.930"N	80°52'13.410"W
H&P 317 (RXB) to Ground level (At Slot #03)			25.8ft	
Mean Sea Level to Ground level (At Slot #03)			-1111ft	
H&P 317 (RXB) to Mean Sea Level			1156.5ft	

Slot	Well	Wellbore	Wellpath
Slot #03	Sterling Unit 3H	Sterling Unit 3H AWB	Sterling Unit 3H AWB Prog. 19821
Slot #03	Sterling Unit 3H	Sterling Unit 3H PWB	Sterling Unit 3H PWB Rev-A.0



Gyrodota MS Gyro <17-1/4">(100-770) : 0.34° Inc, 110.50ft TVD, 0.09ft VS

Panther EM <12-1/4">(770)(832-2551) : 0.29° Inc, 842.50ft MD, 842.50ft TVD, 0.61ft VS

Panther EM <8-3/4">(2551)(2655-5912) : 1.87° Inc, 2665.50ft MD, 2665.26ft TVD, -4.44ft VS

Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	VS (ft)
Tile On	5922.50	17.610	280.480	5848.54	-585.56	-483.07
Prob. To Bottom	5993.50	20.330	283.110	5915.79	-594.53	-455.01
End of 3D Arc	6410.26	38.484	344.665	6294.70	-439.03	-427.23
POE	6840.86	74.960	341.741	6517.00	-100.81	-531.37
Landing Pt.	7017.45	90.000	341.741	6540.00	84.98	-586.07
BHL	16809.50	90.000	341.741	6540.00	9384.01	-3854.03
						10037.38



API: 47-095-02530-0000

BHI Job #: 109633625

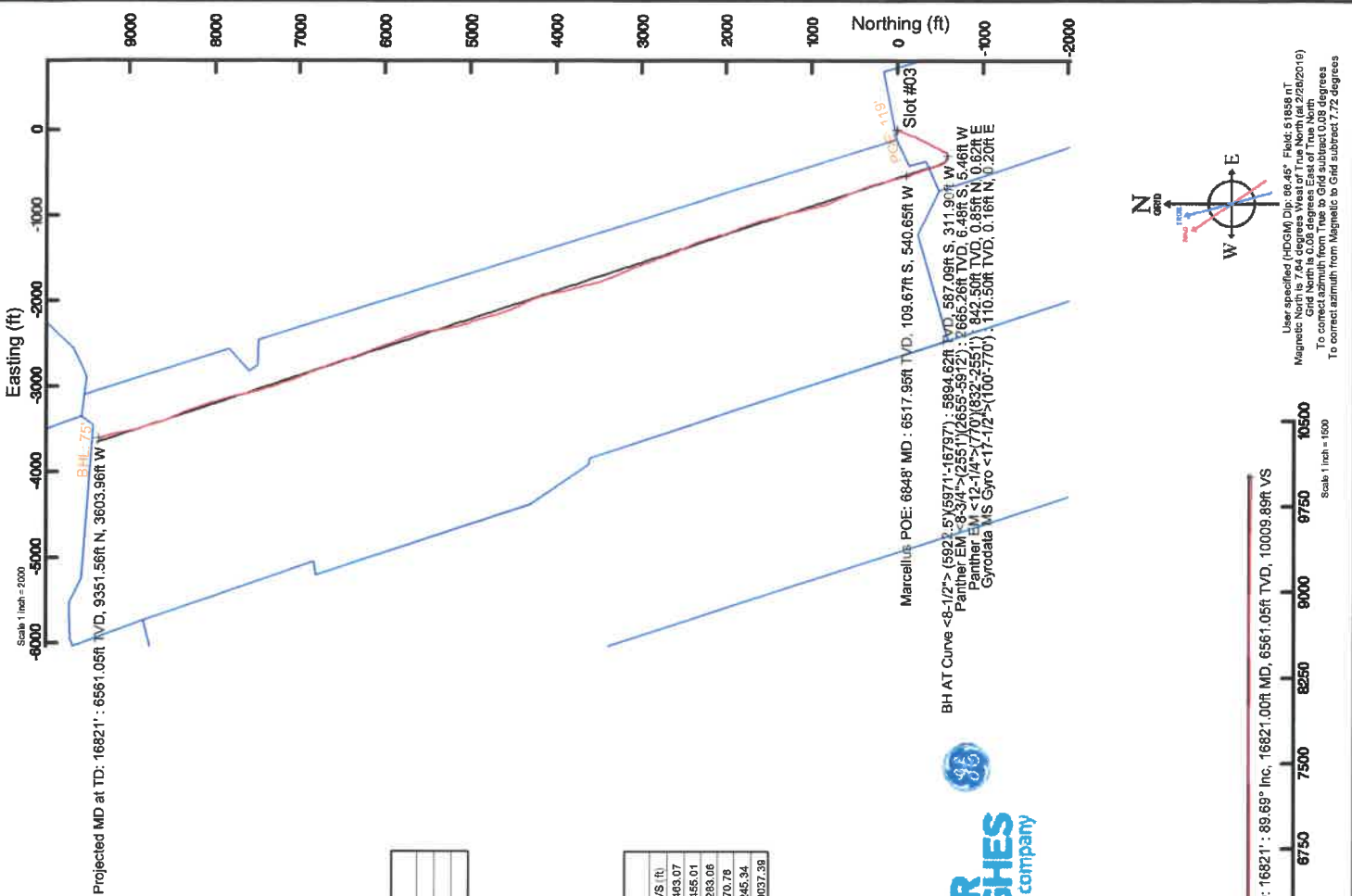
Rig: H&P 317

Duration: 03/01/2019-03/03/2019

BH AT Curve <8-1/2"> (6922.5)(5971-16797) : 18.93° Inc, 5971.00ft MD, 5894.62ft TVD, -459.80ft VS

Marcellus POE: 6848' MD : 75.44° Inc, 6848.00ft MD, 6517.95ft TVD, 65.26ft VS

Projected MD at TD: 16821' : 89.69° Inc, 16821.00ft MD, 6561.05ft TVD, 10009.89ft VS



User specified (HDCM) Dip: 89.69° Field: 6189 n.r.t.  
 Magnetic Declination: 10.00 degrees East of True North  
 Grid North is 0.08 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.08 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.72 degrees

Scale 1 inch = 1000

Vertical Section (ft)  
 Azimuth 341.74° with reference 0.00 N, 0.00 E



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Meredith Pad
	Slot #03
	Well
	Sterling Unit 3H
	Wellbore
	Sterling Unit 3H 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	3/13/2019 at 7:15:27 AM
Database/Source file	WA_MPL_EasternUS_Defn/Sterling_Unit_3H_AWP_Proj_16821_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-33.54	-105.22	1677057.16	14288840.77	39°20'54.500"N	80°52'13.410"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
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 #03)
	Section Origin
	Section Azimuth
	25.50ft
	1136.50ft
	25.50ft
	N 0.00, E 0.00 ft
	341.74°



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Sterling Unit 3H
Area	Tyler County, WV	Wellbore	Sterling Unit 3H AWB
Field	Tyler		
Facility	Meredith Pad		

WELLPATH DATA (198 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
0.00†	0.00	51.16	0.00	0.00	0.00	0.00	1677057.16	14288840.77	39°20'54.500"N	80°52'13.410"W	0.00	0.00	0.00	0.00	0.00	
25.50	0.00	51.16	25.50	0.00	0.00	0.00	1677057.16	14288840.77	39°20'54.500"N	80°52'13.410"W	0.00	0.00	0.00	0.00	0.00	
110.50	0.34	51.16	110.50	0.09	0.16	0.20	1677057.36	14288840.93	39°20'54.502"N	80°52'13.407"W	0.25	51.16	0.40	0.40	60.19	Gyrodatta MS Gyro <17-1/2">(100'-770')
210.50	0.27	64.46	210.50	0.22	0.45	0.64	1677057.80	14288841.22	39°20'54.504"N	80°52'13.402"W	0.78	55.144	0.10	-0.07	13.30	
310.50	0.02	212.12	310.50	0.24	0.53	0.84	1677058.00	14288841.30	39°20'54.505"N	80°52'13.399"W	1.00	57.728	0.29	-0.25	147.66	
410.50	0.11	248.08	410.50	0.22	0.48	0.75	1677057.91	14288841.25	39°20'54.505"N	80°52'13.401"W	0.89	57.101	0.09	0.09	35.96	
510.50	0.20	230.99	510.50	0.16	0.34	0.52	1677057.68	14288841.11	39°20'54.503"N	80°52'13.403"W	0.62	57.129	0.10	0.09	-17.09	
610.50	0.15	54.08	610.50	0.13	0.30	0.49	1677057.65	14288841.08	39°20'54.503"N	80°52'13.404"W	0.58	58.291	0.35	-0.05	-176.91	
710.50	0.09	15.15	710.50	0.24	0.46	0.62	1677057.78	14288841.23	39°20'54.504"N	80°52'13.402"W	0.77	53.559	0.10	-0.06	-38.93	
780.50	0.18	340.88	780.50	0.40	0.61	0.60	1677057.76	14288841.38	39°20'54.506"N	80°52'13.402"W	0.85	44.189	0.17	0.13	-48.99	
842.50	0.29	22.61	842.50	0.61	0.85	0.62	1677057.78	14288841.62	39°20'54.508"N	80°52'13.402"W	1.05	36.298	0.32	0.18	67.34	Panther EM <2-1/4">(770')(832'-2551')
929.50	0.70	6.22	929.49	1.26	1.58	0.77	1677057.93	14288842.35	39°20'54.516"N	80°52'13.400"W	1.76	25.856	0.49	0.47	-18.84	
1025.50	1.02	345.54	1025.48	2.65	2.99	0.62	1677057.78	14288843.76	39°20'54.530"N	80°52'13.402"W	3.05	11.644	0.46	0.33	-21.54	
1119.50	0.52	22.58	1119.47	3.81	4.20	0.57	1677057.73	14288844.97	39°20'54.541"N	80°52'13.403"W	4.23	7.755	0.72	-0.53	39.40	
1212.50	0.52	99.30	1212.47	3.93	4.52	1.15	1677058.31	14288845.29	39°20'54.545"N	80°52'13.395"W	4.66	14.282	0.69	0.00	82.48	
1306.50	0.79	121.15	1306.46	3.24	4.11	2.13	1677059.29	14288844.88	39°20'54.541"N	80°52'13.383"W	4.63	27.328	0.39	0.29	23.24	
1401.50	1.03	126.94	1401.45	2.04	3.26	3.37	1677060.53	14288844.03	39°20'54.532"N	80°52'13.367"W	4.69	45.927	0.27	0.25	6.09	
1495.50	1.08	132.91	1495.44	0.57	2.15	4.69	1677061.85	14288842.92	39°20'54.521"N	80°52'13.350"W	5.16	65.382	0.13	0.05	6.35	
1589.50	1.50	160.26	1589.41	-1.43	0.39	5.76	1677062.92	14288841.16	39°20'54.504"N	80°52'13.337"W	5.77	86.135	0.78	0.45	29.10	
1683.50	0.96	172.33	1683.39	-3.44	-1.55	6.28	1677063.44	14288839.22	39°20'54.485"N	80°52'13.330"W	6.47	103.855	0.63	-0.57	12.84	
1777.50	0.58	181.38	1777.38	-4.66	-2.81	6.37	1677063.53	14288837.97	39°20'54.472"N	80°52'13.329"W	6.96	113.767	0.42	-0.40	9.63	
1871.50	0.76	201.11	1871.38	-5.59	-3.86	6.14	1677063.29	14288836.91	39°20'54.462"N	80°52'13.332"W	7.25	122.195	0.31	0.19	20.99	
1965.50	1.05	202.63	1965.37	-6.72	-5.24	5.58	1677062.74	14288835.53	39°20'54.448"N	80°52'13.339"W	7.65	133.200	0.31	0.31	1.62	
2059.50	0.52	247.79	2059.36	-7.40	-6.20	4.85	1677062.01	14288834.58	39°20'54.439"N	80°52'13.348"W	7.87	141.929	0.83	-0.56	48.04	
2153.50	0.70	273.05	2153.35	-7.22	-6.33	3.88	1677061.04	14288834.45	39°20'54.437"N	80°52'13.361"W	7.42	148.448	0.34	0.19	26.87	
2248.50	0.71	276.68	2248.34	-6.77	-6.23	2.72	1677059.88	14288834.55	39°20'54.438"N	80°52'13.375"W	6.80	156.399	0.05	0.01	3.82	
2342.50	0.89	268.51	2342.34	-6.31	-6.18	1.41	1677058.57	14288834.60	39°20'54.439"N	80°52'13.392"W	6.34	167.124	0.23	0.19	-8.69	
2436.50	0.96	272.56	2436.32	-5.82	-6.16	-0.10	1677057.06	14288834.61	39°20'54.439"N	80°52'13.411"W	6.16	180.969	0.10	0.07	4.31	
2530.50	1.23	267.51	2530.31	-5.26	-6.17	-1.90	1677055.26	14288834.60	39°20'54.439"N	80°52'13.434"W	6.46	197.104	0.30	0.29	-5.37	
2561.50	1.31	264.67	2561.30	-5.10	-6.22	-2.58	1677054.58	14288834.56	39°20'54.439"N	80°52'13.443"W	6.73	202.567	0.33	0.26	-9.16	



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #03
ANTERO RESOURCES CORPORATION	Sterling Unit 3H
Area	Well
Tyler County, WV	Sterling Unit 3H AWB
Field	Wellbore
Tyler	
Facility	Meredith Pad

## WELLPATH DATA (198 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US II)	Grid North (US II)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
2665.50	1.870	264.950	2665.26	-4.44	-6.48	-5.46	1677051.71	14288834.30	39°20'54.436"N	80°52'13.480"W	8.47	220.117	0.54	0.54	0.27	Panther EM <-8.3/4>(2551)(2655)(5912)
2760.50	5.350	228.410	2760.06	-5.84	-9.56	-10.32	1677046.85	14288831.22	39°20'54.406"N	80°52'13.541"W	14.06	227.193	4.22	3.66	-38.46	
2854.50	7.320	216.770	2853.49	-11.01	-17.26	-17.18	1677039.99	14288823.52	39°20'54.330"N	80°52'13.629"W	24.35	224.862	2.49	2.10	-12.38	
2948.50	6.630	185.200	2946.83	-19.42	-27.47	-21.26	1677035.91	14288813.32	39°20'54.229"N	80°52'13.681"W	34.73	217.737	4.09	-0.73	-33.53	
3043.50	5.940	187.640	3041.26	-28.88	-37.80	-22.41	1677034.76	14288802.99	39°20'54.127"N	80°52'13.696"W	43.94	210.659	0.78	-0.73	2.57	
3137.50	7.960	199.100	3134.56	-38.43	-48.77	-25.18	1677031.99	14288792.02	39°20'54.018"N	80°52'13.731"W	54.89	207.310	2.60	2.15	12.19	
3231.50	7.390	194.810	3227.72	-48.67	-60.77	-28.86	1677028.31	14288786.03	39°20'53.900"N	80°52'13.778"W	67.27	206.404	0.86	-0.61	-4.56	
3331.50	8.550	200.880	3326.76	-59.82	-73.93	-33.15	1677024.02	14288766.87	39°20'53.770"N	80°52'13.833"W	81.03	204.153	1.43	1.16	6.07	
3425.50	10.890	204.060	3419.40	-71.81	-88.57	-39.26	1677017.91	14288752.24	39°20'53.625"N	80°52'13.911"W	96.88	203.908	2.55	2.49	3.38	
3519.50	13.070	207.880	3511.35	-85.74	-106.08	-47.86	1677009.32	14288734.74	39°20'53.452"N	80°52'14.021"W	116.37	204.283	2.47	2.32	4.06	
3614.50	13.930	205.250	3603.73	-101.48	-125.91	-57.76	1676999.43	14288714.91	39°20'53.256"N	80°52'14.147"W	138.53	204.641	1.11	0.91	-2.77	
3709.50	14.950	202.110	3695.72	-119.11	-147.61	-67.25	1676989.94	14288693.22	39°20'53.042"N	80°52'14.269"W	162.21	204.493	1.35	1.07	-3.31	
3804.50	13.570	195.520	3787.80	-137.71	-169.70	-74.84	1676982.35	14288671.14	39°20'52.824"N	80°52'14.366"W	185.48	203.798	2.24	-1.45	-6.94	
3899.50	9.460	175.920	3880.90	-154.55	-188.25	-77.27	1676979.92	14288652.60	39°20'52.641"N	80°52'14.397"W	203.49	202.317	5.92	-4.33	-20.63	
3993.50	8.260	190.560	3973.79	-167.96	-202.59	-77.96	1676979.23	14288638.26	39°20'52.499"N	80°52'14.406"W	217.07	201.047	2.71	-1.28	15.57	
4088.50	9.530	219.090	4067.69	-178.19	-215.41	-84.17	1676973.02	14288625.45	39°20'52.372"N	80°52'14.485"W	231.27	201.343	4.78	1.34	30.03	
4182.50	14.070	214.610	4159.68	-189.29	-230.86	-95.57	1676961.62	14288610.00	39°20'52.220"N	80°52'14.631"W	249.86	202.489	4.92	4.83	-4.77	
4277.50	15.230	208.530	4251.60	-204.81	-251.33	-108.09	1676949.11	14288589.54	39°20'52.017"N	80°52'14.791"W	273.59	203.272	2.03	1.22	-6.40	
4371.50	17.120	204.430	4341.88	-223.43	-274.78	-119.72	1676937.49	14288566.10	39°20'51.786"N	80°52'14.939"W	299.72	203.542	2.35	2.01	-4.36	
4467.50	17.150	210.230	4433.82	-243.20	-299.87	-132.69	1676924.53	14288541.02	39°20'51.538"N	80°52'15.104"W	327.92	203.868	1.78	0.03	6.04	
4561.50	15.440	205.200	4523.85	-261.47	-323.17	-144.99	1676912.23	14288517.73	39°20'51.308"N	80°52'15.262"W	354.21	204.164	2.36	-1.82	-6.35	
4657.50	15.680	201.780	4616.33	-280.68	-346.78	-155.25	1676901.98	14288494.13	39°20'51.075"N	80°52'15.392"W	379.95	204.117	0.99	0.25	-3.56	
4752.50	15.160	205.940	4707.92	-299.41	-369.88	-165.45	1676891.78	14288471.04	39°20'50.847"N	80°52'15.523"W	405.19	204.099	1.29	-0.55	4.38	
4848.50	14.610	208.840	4800.69	-316.65	-391.77	-176.78	1676880.46	14288449.16	39°20'50.630"N	80°52'15.667"W	429.81	204.286	0.96	-0.57	3.02	
4943.50	14.280	210.460	4892.69	-332.54	-412.36	-188.50	1676868.74	14288428.57	39°20'50.427"N	80°52'15.817"W	453.40	204.566	0.55	-0.35	1.71	
5037.50	13.450	205.340	4983.96	-348.10	-432.24	-199.05	1676858.19	14288408.71	39°20'50.231"N	80°52'15.952"W	475.87	204.727	1.58	-0.88	-5.45	
5132.50	14.060	210.790	5076.23	-363.67	-452.14	-209.69	1676847.56	14288388.81	39°20'50.034"N	80°52'16.087"W	498.40	204.880	1.51	0.64	5.74	
5227.50	13.300	201.860	5168.55	-379.59	-472.20	-219.66	1676837.58	14288368.77	39°20'49.836"N	80°52'16.215"W	520.79	204.948	2.36	-0.80	-9.40	
5322.50	12.620	213.100	5261.14	-394.43	-491.03	-229.40	1676827.85	14288349.93	39°20'49.650"N	80°52'16.339"W	541.98	205.041	2.74	-0.72	11.83	
5417.50	12.000	209.880	5353.96	-407.50	-508.29	-239.99	1676817.27	14288332.68	39°20'49.480"N	80°52'16.474"W	562.10	205.274	0.97	-0.65	-3.33	



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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REFERENCE WELLPATH IDENTIFICATION		Slot #03
Operator	ANTERO RESOURCES CORPORATION	Sterling Unit 3H
Area	Tyler County, WV	Sterling Unit 3H AWB
Field	Tyler	
Facility	Meredith Pad	

WELLPATH DATA (198 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert. Sect (ft)	North (ft)	East (ft)	Grid East (US ITL)	Grid North (US ITL)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
5512.50	11.581	204.280	5446.96	-421.12	-525.55	-248.83	1676808.43	14288315.44	39°20'49.309"N	80°52'16.587"W	581.48	205.336	1.28	-0.44	-5.83	
5607.50	10.981	199.220	5540.13	-435.32	-542.78	-255.73	1676801.53	14288298.21	39°20'49.139"N	80°52'16.675"W	600.01	205.227	1.22	-0.63	-6.33	
5702.50	10.960	206.140	5633.39	-448.95	-559.43	-262.69	1676794.58	14288281.56	39°20'48.974"N	80°52'16.764"W	618.04	205.153	1.39	-0.02	-7.28	
5796.50	10.321	219.070	5725.79	-459.89	-573.99	-271.93	1676785.34	14288267.01	39°20'48.831"N	80°52'16.882"W	635.15	205.350	2.62	-0.68	-13.76	
5890.50	14.161	254.120	5817.76	-463.96	-583.69	-288.33	1676768.95	14288257.31	39°20'48.735"N	80°52'17.091"W	651.02	206.288	8.71	4.09	-37.23	
5922.50	17.511	260.460	5848.54	-463.07	-585.56	-296.84	1676760.44	14288255.44	39°20'48.717"N	80°52'17.199"W	656.50	206.882	11.77	10.47	-19.81	
6009.00	18.931	267.660	5894.62	-459.80	-587.09	-311.90	1676745.39	14288253.91	39°20'48.702"N	80°52'17.391"W	664.80	207.980	5.48	2.93	14.85	BH AT Curve <-8-1/2"> (5922.5)-(5971'-16797')
6056.00	18.210	289.780	5975.24	-448.22	-583.65	-338.43	1676718.86	14288257.35	39°20'48.736"N	80°52'17.729"W	674.68	210.107	9.84	-0.68	31.21	
6104.00	19.491	300.620	6020.68	-437.57	-577.04	-352.39	1676704.92	14288263.97	39°20'48.802"N	80°52'17.906"W	676.13	211.412	7.76	2.67	22.58	
6151.00	21.581	311.010	6064.70	-424.22	-567.37	-365.66	1676689.165	14288273.63	39°20'48.898"N	80°52'18.075"W	674.99	212.801	8.92	4.45	22.11	
6198.00	24.340	319.050	6107.98	-407.85	-554.37	-378.54	1676678.78	14288286.62	39°20'49.026"N	80°52'18.238"W	671.28	214.326	8.88	5.87	17.11	
6245.00	27.411	326.000	6150.28	-388.49	-538.08	-390.94	1676666.38	14288302.91	39°20'49.187"N	80°52'18.396"W	665.11	216.000	9.17	6.53	14.79	
6293.00	30.761	332.820	6192.23	-365.72	-517.99	-402.73	1676654.59	14288322.99	39°20'49.386"N	80°52'18.546"W	656.13	217.865	9.81	6.98	14.21	
6340.00	33.931	338.791	6231.94	-340.73	-495.06	-412.97	1676644.35	14288345.91	39°20'49.613"N	80°52'18.676"W	644.69	219.834	9.57	6.74	12.70	
6388.00	37.881	342.380	6270.82	-312.61	-468.51	-422.28	1676635.05	14288372.45	39°20'49.875"N	80°52'18.794"W	630.74	222.029	9.32	8.23	7.48	
6435.00	41.710	343.300	6306.93	-282.54	-439.77	-431.15	1676626.18	14288401.18	39°20'50.160"N	80°52'18.906"W	615.86	224.433	8.24	8.15	1.96	
6481.00†	45.263	342.032	6340.29	-250.89	-409.56	-440.59	1676616.75	14288431.37	39°20'50.458"N	80°52'19.026"W	601.55	227.090	7.96	7.73	-2.76	Middlesex: 6481' MD
6483.00	45.420	341.980	6341.70	-249.47	-408.21	-441.03	1676616.31	14288432.73	39°20'50.472"N	80°52'19.031"W	600.95	227.213	7.96	7.74	-2.58	
6530.00	49.453	340.661	6373.49	-214.86	-375.43	-452.13	1676605.22	14288465.49	39°20'50.796"N	80°52'19.172"W	587.68	230.295	8.82	8.57	-2.81	
6577.00	53.110	340.830	6402.88	-178.20	-340.82	-464.22	1676593.13	14288500.09	39°20'51.138"N	80°52'19.325"W	575.89	233.715	7.79	7.79	0.36	
6624.00	57.351	341.570	6429.68	-139.61	-304.27	-476.65	1676580.70	14288536.62	39°20'51.499"N	80°52'19.483"W	565.49	237.447	9.11	9.02	1.57	
6664.00†	60.758	341.587	6450.24	-105.30	-271.73	-487.49	1676569.87	14288569.15	39°20'51.821"N	80°52'19.620"W	558.11	240.864	8.52	8.52	0.04	Burkett: 6664' MD
6719.00	65.781	341.230	6475.00	-66.21	-225.19	-503.12	1676554.24	14288615.67	39°20'52.287"N	80°52'19.818"W	551.22	245.887	9.26	9.23	-0.77	
6742.00†	67.393	341.444	6484.13	-35.10	-205.20	-509.87	1676547.49	14288635.66	39°20'52.479"N	80°52'19.904"W	549.62	248.078	7.07	7.02	0.91	Tully: 6742' MD
6767.00	69.151	341.670	6493.39	-11.88	-183.17	-517.22	1676540.15	14288657.68	39°20'52.697"N	80°52'19.997"W	548.70	250.499	7.07	7.02	0.91	
6814.00	72.890	342.430	6508.67	32.55	-140.89	-530.91	1676526.46	14288689.94	39°20'53.115"N	80°52'20.171"W	549.29	255.138	8.10	7.96	1.62	
6848.00†	75.440	342.914	6517.95	65.26	-109.67	-540.65	1676516.72	14288731.15	39°20'53.424"N	80°52'20.294"W	551.66	258.533	7.62	7.50	1.42	Marcellus POE: 6848' MD
6862.00	76.490	343.110	6521.35	78.84	-96.68	-544.62	1676512.76	14288744.13	39°20'53.552"N	80°52'20.344"W	553.14	259.934	7.62	7.50	1.40	



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Meredith Pad
Slot	Slot #03
Well	Sterling Unit 3H
Wellbore	Sterling Unit 3H AWB

WELLPATH DATA (198 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
6909.00	80.790	343.850	6530.60	124.88	-82.51	-557.72	1676499.67	14288788.28	39°20'53.989"N	80°52'20.510"W	560.19	264.621	9.28	9.15	1.57	
6957.00	83.900	345.340	6536.99	172.39	-6.65	-570.35	1676487.04	14288834.12	39°20'54.442"N	80°52'20.670"W	570.39	289.331	7.17	6.48	3.10	
7004.00	89.660	346.290	6539.63	219.17	38.82	-581.84	1676475.55	14288879.58	39°20'54.892"N	80°52'20.816"W	583.14	273.817	12.42	12.26	2.02	
7052.00	89.880	345.500	6539.83	267.05	85.37	-593.54	1676463.86	14288926.11	39°20'55.352"N	80°52'20.964"W	599.65	278.185	17.71	0.46	-1.65	
7146.00	89.880	343.950	6540.02	360.92	176.05	-618.31	1676439.10	14289016.75	39°20'56.249"N	80°52'21.277"W	642.88	285.893	1.65	0.00	-1.65	
7241.00	90.340	343.870	6539.84	455.85	267.33	-644.63	1676412.78	14289107.99	39°20'57.151"N	80°52'21.611"W	697.87	292.524	0.49	0.48	-0.08	
7336.00	90.340	341.310	6539.13	550.83	357.96	-673.06	1676384.37	14289198.59	39°20'58.047"N	80°52'21.971"W	762.33	296.006	2.70	0.19	-2.69	
7431.00	90.520	338.130	6538.41	645.75	447.06	-705.98	1676351.46	14289287.65	39°20'58.928"N	80°52'22.388"W	835.63	302.344	3.35	-0.19	-3.35	
7526.00	90.370	337.330	6537.83	740.52	534.97	-741.98	1676315.48	14289375.53	39°20'59.798"N	80°52'22.845"W	914.73	305.792	0.84	0.03	-0.84	
7620.00	90.340	335.800	6537.24	834.13	621.22	-779.36	1676278.11	14289461.74	39°21'00.651"N	80°52'23.320"W	996.65	308.558	1.63	-0.03	-1.63	
7715.00	89.720	333.660	6537.19	928.41	707.12	-819.91	1676237.58	14289547.61	39°21'01.500"N	80°52'23.834"W	1082.72	310.775	2.36	-0.65	-2.25	
7810.00	88.770	336.810	6538.45	1022.78	793.36	-859.70	1676197.80	14289633.82	39°21'02.353"N	80°52'24.339"W	1169.83	312.702	3.46	-1.00	3.32	
7905.00	89.350	344.730	6540.01	1117.68	892.98	-890.96	1676166.56	14289723.40	39°21'03.239"N	80°52'24.735"W	1254.38	314.742	8.36	0.61	8.34	
7999.00	89.970	347.940	6540.56	1211.36	974.30	-913.16	1676144.36	14289814.69	39°21'04.142"N	80°52'25.016"W	1335.34	316.855	3.48	0.66	3.41	
8094.00	89.970	345.140	6540.61	1306.02	1066.68	-935.27	1676122.26	14289907.03	39°21'05.056"N	80°52'25.296"W	1418.65	318.766	2.95	0.00	-2.95	
8189.00	89.880	346.410	6540.74	1400.78	1158.77	-958.62	1676098.93	14289999.08	39°21'05.966"N	80°52'25.592"W	1503.89	320.400	1.34	-0.09	1.34	
8284.00	89.970	345.900	6540.86	1495.50	1251.01	-981.35	1676076.20	14290091.28	39°21'06.878"N	80°52'25.880"W	1589.99	321.888	0.55	0.09	-0.54	
8379.00	89.850	347.000	6541.01	1590.18	1343.36	-1003.61	1676053.95	14290183.60	39°21'07.791"N	80°52'26.161"W	1676.86	323.237	1.16	-0.13	1.16	
8474.00	90.000	347.030	6541.14	1684.78	1435.93	-1024.96	1676032.82	14290276.13	39°21'08.707"N	80°52'26.431"W	1764.21	324.481	0.16	0.16	0.03	
8569.00	90.030	344.390	6541.11	1779.54	1527.99	-1048.40	1676009.18	14290368.15	39°21'09.617"N	80°52'26.728"W	1853.08	325.545	2.78	0.03	-2.78	
8663.00	90.120	341.660	6540.99	1873.51	1617.88	-1075.84	1675981.75	14290458.01	39°21'10.506"N	80°52'27.076"W	1942.93	326.377	2.91	0.10	-2.90	
8758.00	90.120	340.850	6540.79	1968.50	1707.84	-1108.37	1675951.23	14290547.93	39°21'11.395"N	80°52'27.463"W	2034.89	327.064	0.85	0.00	-0.85	
8853.00	90.460	339.200	6540.31	2063.46	1797.12	-1138.82	1675918.79	14290637.18	39°21'12.278"N	80°52'27.874"W	2127.57	327.638	1.77	0.36	-1.74	
8948.00	90.680	338.860	6539.36	2158.34	1885.83	-1172.82	1675884.81	14290725.84	39°21'13.155"N	80°52'28.306"W	2220.78	328.122	0.43	0.23	-0.36	
9043.00	91.050	340.360	6537.93	2253.26	1974.86	-1206.91	1675851.73	14290814.84	39°21'14.036"N	80°52'28.725"W	2313.94	328.590	1.63	0.39	1.58	
9138.00	90.890	344.250	6536.32	2348.23	2065.34	-1234.78	1675822.88	14290905.28	39°21'14.930"N	80°52'29.091"W	2406.30	329.127	4.10	-0.17	4.09	
9233.00	91.050	344.020	6534.71	2443.13	2166.70	-1260.75	1675796.92	14290996.61	39°21'15.834"N	80°52'29.420"W	2498.17	329.691	0.29	0.17	-0.24	
9328.00	91.390	344.060	6532.69	2538.03	2248.02	-1286.86	1675770.81	14291087.89	39°21'16.736"N	80°52'29.751"W	2590.29	330.211	0.36	0.36	0.04	
9423.00	91.600	339.440	6530.21	2632.96	2338.19	-1316.59	1675741.09	14291178.02	39°21'17.628"N	80°52'30.128"W	2683.38	330.617	4.87	0.22	-4.86	
9518.00	90.520	336.440	6528.45	2727.67	2426.88	-1353.03	1675704.68	14291265.68	39°21'18.495"N	80°52'30.590"W	2777.70	330.850	4.36	-1.14	-4.21	



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Tyler County, WV	Well	Sterling Unit 3H
Field	Tyler	Wellbore	Sterling Unit 3H AWP
Facility	Meredith Pad		

## WELLPATH DATA (198 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
9612.00	90.800	333.880	6527.37	2820.95	2510.83	-1393.25	1675664.47	14291350.60	39°21'19.335"N	80°52'31.101"W	2871.49	330.974	1.69	0.30	-1.66	
9707.00	90.400	336.230	6526.37	2915.29	2596.96	-1433.31	1675624.42	14291436.69	39°21'20.187"N	80°52'31.609"W	2966.24	331.105	2.51	-0.42	2.47	
9802.00	90.800	340.280	6525.38	3010.09	2585.18	-1468.50	1675589.25	14291524.87	39°21'21.060"N	80°52'32.056"W	3060.50	331.326	4.28	0.42	4.26	
9897.00	91.720	340.760	6523.29	3105.04	2774.71	-1500.17	1675557.59	14291614.37	39°21'21.945"N	80°52'32.457"W	3154.29	331.602	1.09	0.97	0.51	
9992.00	90.370	338.130	6521.56	3199.94	2863.64	-1533.52	1675524.26	14291703.27	39°21'22.824"N	80°52'32.880"W	3248.40	331.830	3.11	-1.42	-2.77	
10087.00	90.340	340.060	6520.97	3294.83	2952.38	-1567.42	1675490.37	14291791.97	39°21'23.702"N	80°52'33.310"W	3342.66	332.036	2.03	-0.03	2.03	
10182.00	91.020	340.210	6519.84	3389.79	3041.72	-1599.69	1675458.11	14291881.28	39°21'24.585"N	80°52'33.720"W	3436.73	332.259	0.73	0.72	0.16	
10277.00	91.450	338.540	6517.79	3484.68	3130.61	-1633.15	1675424.67	14291970.13	39°21'25.464"N	80°52'34.144"W	3530.99	332.450	1.81	0.45	-1.76	
10372.00	89.720	335.090	6516.82	3579.31	3217.92	-1670.54	1675387.29	14292057.40	39°21'26.328"N	80°52'34.618"W	3625.70	332.564	4.06	-1.82	-3.63	
10467.00	89.350	336.960	6517.59	3673.83	3304.71	-1709.14	1675348.70	14292144.16	39°21'27.186"N	80°52'35.108"W	3720.52	332.653	2.01	-0.39	1.97	
10562.00	88.920	338.520	6519.03	3768.58	3392.02	-1745.12	1675312.74	14292232.03	39°21'28.055"N	80°52'35.565"W	3815.14	332.779	1.70	-0.45	1.64	
10656.00	88.860	341.970	6520.85	3862.52	3481.06	-1776.88	1675280.99	14292320.44	39°21'28.930"N	80°52'35.968"W	3908.33	332.958	3.67	-0.06	3.67	
10751.00	88.860	346.350	6522.74	3957.39	3572.41	-1802.80	1675255.08	14292411.75	39°21'29.833"N	80°52'36.296"W	4001.53	333.222	4.61	0.00	4.61	
10846.00	89.320	346.900	6524.25	4052.03	3664.82	-1824.78	1675233.12	14292504.12	39°21'30.747"N	80°52'36.574"W	4093.99	333.531	0.75	0.48	0.58	
10940.00	89.510	344.430	6525.21	4145.80	3755.88	-1848.05	1675209.86	14292595.15	39°21'31.647"N	80°52'36.869"W	4185.92	333.801	2.64	0.20	-2.63	
11035.00	89.170	345.530	6526.30	4240.64	3847.63	-1872.66	1675185.25	14292686.86	39°21'32.554"N	80°52'37.181"W	4279.15	334.048	1.21	-0.36	1.16	
11130.00	89.480	348.750	6527.42	4335.20	3940.23	-1893.80	1675164.12	14292779.42	39°21'33.470"N	80°52'37.448"W	4371.71	334.330	3.40	0.33	3.39	
11224.00	89.780	347.380	6528.03	4428.62	4032.19	-1913.24	1675144.69	14292871.35	39°21'34.379"N	80°52'37.694"W	4463.08	334.616	1.49	0.32	-1.46	
11319.00	90.310	344.340	6527.96	4523.37	4124.30	-1936.45	1675121.49	14292963.42	39°21'35.290"N	80°52'37.988"W	4556.28	334.849	3.25	0.56	-3.20	
11414.00	90.920	342.050	6526.94	4618.32	4215.23	-1963.91	1675094.04	14293054.32	39°21'36.189"N	80°52'38.336"W	4650.28	335.019	2.49	0.64	-2.41	
11508.00	89.510	336.450	6526.58	4712.19	4303.10	-1997.20	1675060.76	14293142.15	39°21'37.058"N	80°52'38.758"W	4743.99	335.103	6.14	-1.50	-5.96	
11603.00	89.260	332.770	6527.60	4806.44	4388.90	-2037.92	1675020.05	14293227.92	39°21'37.906"N	80°52'39.275"W	4838.97	335.093	3.88	-0.26	-3.87	
11698.00	88.860	336.460	6529.16	4900.58	4474.35	-2079.39	1674978.61	14293313.33	39°21'38.751"N	80°52'39.802"W	4933.93	335.074	2.86	-0.42	2.83	
11792.00	89.020	338.730	6530.90	4994.24	4560.91	-2115.96	1674942.05	14293399.86	39°21'39.607"N	80°52'40.266"W	5027.84	335.112	3.48	0.17	3.48	
11887.00	89.050	341.800	6532.50	5089.18	4650.31	-2148.03	1674909.99	14293489.22	39°21'40.491"N	80°52'40.673"W	5122.44	335.207	3.23	0.03	3.23	
11981.00	88.800	346.340	6534.27	5183.06	4740.66	-2173.82	1674884.21	14293579.53	39°21'41.385"N	80°52'40.999"W	5215.30	335.366	4.84	-0.27	4.83	
12076.00	89.230	345.820	6535.90	5277.78	4832.86	-2196.67	1674861.37	14293671.69	39°21'42.296"N	80°52'41.289"W	5308.66	335.557	0.71	0.45	-0.55	
12171.00	89.320	340.860	6537.70	5372.70	4923.83	-2223.90	1674834.16	14293762.63	39°21'43.196"N	80°52'41.634"W	5402.76	335.693	5.22	0.08	-5.22	
12265.00	88.340	339.180	6539.02	5466.64	5012.15	-2256.01	1674802.06	14293850.92	39°21'44.069"N	80°52'42.041"W	5496.47	335.767	2.07	-1.04	-1.79	
12360.00	88.060	344.730	6542.01	5561.55	5102.40	-2285.41	1674772.67	14293941.13	39°21'44.961"N	80°52'42.414"W	5590.85	335.872	5.85	-0.29	5.84	



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Tyler County, WV	Well	Sterling Unit 3H
Field	Tyler	Wellbore	Sterling Unit 3H AWB
Facility	Meredith Pad		

## WELLPATH DATA (198 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
12454.00	88.250	348.760	6545.04	5655.12	5193.83	-2306.94	1674751.14	14294032.52	39°21'45.865"N	80°52'42.687"W	5683.12	336.051	4.29	0.20	4.29	
12549.00	88.120	350.160	6548.04	5749.21	5287.18	-2324.31	1674733.78	14294125.83	39°21'46.788"N	80°52'42.906"W	5775.52	336.269	1.48	-0.14	1.47	
12644.00	88.120	350.360	6551.16	5843.11	5380.76	-2340.38	1674717.72	14294219.37	39°21'47.713"N	80°52'43.109"W	5867.70	336.493	0.21	0.00	0.21	
12739.00	89.140	352.980	6553.43	5936.66	5474.72	-2354.13	1674703.97	14294313.30	39°21'48.642"N	80°52'43.283"W	5959.40	336.732	2.96	1.07	2.76	
12833.00	89.970	349.630	6554.16	6029.33	5567.62	-2368.34	1674689.77	14294406.16	39°21'49.561"N	80°52'43.462"W	6050.41	336.956	3.67	0.88	-3.56	
12928.00	90.220	342.050	6554.00	6124.02	5659.67	-2391.56	1674666.55	14294498.17	39°21'50.471"N	80°52'43.756"W	6144.22	337.093	7.98	0.26	-7.98	
13023.00	90.180	337.880	6553.67	6218.95	5748.90	-2424.10	1674634.03	14294587.37	39°21'51.353"N	80°52'44.160"W	6239.08	337.137	4.39	-0.04	-4.39	
13117.00	90.120	338.730	6553.43	6312.78	5836.24	-2458.85	1674599.29	14294674.67	39°21'52.217"N	80°52'44.610"W	6333.06	337.154	0.91	-0.06	0.90	
13212.00	90.150	337.950	6553.20	6407.61	5924.53	-2493.92	1674564.24	14294762.93	39°21'53.090"N	80°52'45.055"W	6428.04	337.171	0.82	0.03	-0.82	
13307.00	90.250	340.480	6552.87	6502.51	6013.34	-2527.62	1674530.55	14294851.70	39°21'53.968"N	80°52'45.482"W	6522.97	337.201	2.67	0.11	2.66	
13402.00	90.250	339.900	6552.46	6597.48	6102.72	-2559.82	1674498.37	14294941.04	39°21'54.852"N	80°52'45.891"W	6617.84	337.244	0.61	0.00	-0.61	
13497.00	90.150	337.700	6552.13	6692.35	6191.28	-2594.17	1674464.03	14295029.57	39°21'55.728"N	80°52'46.327"W	6712.80	337.266	2.32	-0.11	-2.32	
13591.00	90.120	339.410	6551.90	6786.20	6278.77	-2628.54	1674429.68	14295117.03	39°21'56.593"N	80°52'46.763"W	6806.77	337.284	1.82	-0.03	1.82	
13686.00	89.910	342.600	6551.88	6881.18	6368.58	-2659.45	1674398.77	14295206.81	39°21'57.481"N	80°52'47.155"W	6901.56	337.335	3.37	-0.22	3.36	
13781.00	90.280	344.090	6551.72	6976.14	6459.60	-2686.68	1674371.56	14295297.78	39°21'58.381"N	80°52'47.500"W	6996.04	337.417	1.62	0.38	1.57	
13876.00	90.430	340.060	6551.13	7071.11	6549.96	-2715.91	1674342.34	14295388.11	39°21'59.274"N	80°52'47.870"W	7090.71	337.479	4.24	0.16	-4.24	
13970.00	90.180	338.920	6550.63	7165.04	6638.00	-2748.85	1674309.41	14295476.12	39°22'00.145"N	80°52'48.288"W	7184.65	337.505	1.24	-0.27	-1.21	
14065.00	90.180	339.240	6550.33	7259.94	6726.74	-2782.77	1674275.51	14295564.82	39°22'01.022"N	80°52'48.719"W	7279.62	337.526	0.34	0.00	0.34	
14160.00	90.740	338.470	6549.57	7354.81	6815.34	-2817.04	1674241.25	14295653.38	39°22'01.898"N	80°52'49.154"W	7374.59	337.543	1.00	0.59	-0.81	
14254.00	90.150	336.980	6548.84	7448.57	6902.32	-2852.66	1674205.64	14295740.33	39°22'02.759"N	80°52'49.606"W	7468.58	337.545	1.70	-0.63	-1.59	
14349.00	90.090	338.650	6548.64	7543.35	6990.28	-2888.54	1674169.78	14295828.26	39°22'03.628"N	80°52'50.061"W	7563.58	337.549	1.76	-0.06	1.76	
14444.00	89.910	340.410	6548.64	7638.27	7079.28	-2921.76	1674136.57	14295917.22	39°22'04.509"N	80°52'50.482"W	7658.52	337.573	1.86	-0.19	1.85	
14538.00	89.910	342.460	6548.94	7732.27	7168.22	-2952.19	1674106.15	14296006.12	39°22'05.388"N	80°52'50.868"W	7752.34	337.616	1.49	0.00	1.49	
14633.00	89.970	343.530	6549.04	7922.24	7349.48	-3009.12	1674049.25	14296187.31	39°22'07.180"N	80°52'51.590"W	7941.64	337.734	1.13	0.06	1.13	
14728.00	88.620	342.900	6550.20	8016.20	7439.47	-3036.26	1674022.12	14296277.26	39°22'08.070"N	80°52'51.934"W	8035.20	337.798	1.58	-1.44	-0.67	
14917.00	89.360	346.670	6551.85	8111.03	7531.11	-3061.18	1673997.21	14296368.86	39°22'08.976"N	80°52'52.250"W	8129.48	337.880	4.05	0.80	3.97	
15012.00	90.090	348.220	6552.29	8205.56	7623.83	-3081.83	1673976.56	14296461.55	39°22'09.893"N	80°52'52.512"W	8223.17	337.990	1.79	0.75	1.63	
15106.00	90.060	347.010	6552.17	8299.06	7715.64	-3101.99	1673956.41	14296553.72	39°22'10.800"N	80°52'52.767"W	8315.86	338.098	1.29	-0.03	-1.29	
15201.00	91.390	346.410	6550.97	8393.69	7808.09	-3123.83	1673934.58	14296645.33	39°22'11.714"N	80°52'53.043"W	8409.79	338.195	1.54	1.40	-0.63	





# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION		
Area	Tyler County, WV		
Field	Tyler		
Well	Sterling Unit 3H		
Wellbore	Sterling Unit 3H AWB		
Facility	Meredith Pad		

WELLPATH DATA (198 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
15296.00	92.060	343.140	6548.11	8488.50	7899.70	-3148.76	1673909.66	14296737.31	39°22'12.670"N	80°52'53.359"W	8504.11	338.268	3.51	0.71	-3.44	
15390.00	89.350	341.850	6546.95	8582.48	7989.33	-3177.03	1673881.40	14296826.90	39°22'13.506"N	80°52'53.718"W	8597.84	338.314	3.19	-2.88	-1.37	
15485.00	89.140	344.040	6548.20	8677.44	8080.14	-3204.89	1673853.56	14296917.67	39°22'14.404"N	80°52'54.071"W	8692.52	338.365	2.32	-0.22	2.31	
15579.00	89.320	341.540	6549.47	8771.41	8169.91	-3232.70	1673825.76	14297007.41	39°22'15.292"N	80°52'54.423"W	8786.23	338.412	2.67	0.19	-2.68	
15674.00	90.580	338.770	6549.55	8866.36	8259.26	-3264.94	1673793.53	14297096.72	39°22'16.175"N	80°52'54.832"W	8881.17	338.431	3.20	1.33	-2.92	
15769.00	89.320	337.450	6549.63	8961.17	8347.41	-3300.36	1673768.12	14297184.84	39°22'17.047"N	80°52'55.282"W	8976.17	338.427	1.92	-1.33	-1.39	
15863.00	89.850	336.420	6550.31	9054.83	8433.89	-3337.18	1673721.31	14297271.28	39°22'17.902"N	80°52'55.749"W	9070.13	338.412	1.23	0.56	-1.10	
16053.00	89.230	340.970	6553.02	9244.27	8609.54	-3409.40	1673649.13	14297446.87	39°22'19.639"N	80°52'56.666"W	9260.03	338.396	4.61	0.42	4.59	
16147.00	90.580	344.080	6553.17	9338.25	8699.19	-3437.62	1673620.92	14297536.48	39°22'20.526"N	80°52'57.024"W	9353.78	338.438	3.61	1.44	3.31	
16242.00	89.450	342.970	6553.15	9433.20	8790.29	-3464.56	1673593.99	14297627.54	39°22'21.426"N	80°52'57.365"W	9448.40	338.489	1.67	-1.19	-1.17	
16337.00	88.430	341.640	6554.90	9528.17	8880.77	-3493.43	1673565.13	14297717.99	39°22'22.321"N	80°52'57.732"W	9543.18	338.527	1.76	-1.07	-1.40	
16432.00	88.800	348.680	6557.20	9622.92	8972.52	-3517.74	1673540.83	14297809.70	39°22'23.228"N	80°52'58.040"W	9637.46	338.592	7.42	0.34	7.41	
16527.00	89.290	349.970	6558.79	9717.07	9065.86	-3535.33	1673523.24	14297903.00	39°22'24.151"N	80°52'58.262"W	9730.80	338.696	1.45	0.52	1.36	
16622.00	89.540	347.700	6559.76	9811.33	9159.05	-3553.73	1673504.86	14297996.16	39°22'25.072"N	80°52'58.495"W	9824.32	338.794	2.40	0.26	-2.39	
16717.00	89.630	345.030	6560.45	9906.01	9251.36	-3576.12	1673482.48	14298088.43	39°22'25.985"N	80°52'58.778"W	9918.49	338.866	2.81	0.03	-2.81	
16797.00	89.690	344.120	6560.92	9985.91	9328.48	-3597.39	1673461.21	14298165.52	39°22'26.747"N	80°52'59.048"W	9998.09	338.912	1.14	0.08	-1.14	
16821.00	89.690	344.120	6561.05	10009.89	9351.56	-3603.96	1673454.64	14298188.59	39°22'26.976"N	80°52'59.131"W	10021.99	338.924	0.00	0.00	0.00	Projected MD at TD: 16821'



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #03
Area	Tyler County, WV		Sterling Unit 3H
Field	Tyler		Sterling Unit 3H AWB
Facility	Meredith Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Sterling Unit 3H AWB Ref Wellpath: Sterling Unit 3H AWP Proj: 16821'									
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	0.00	0.00	0.14
17.5in Open Hole	105.50	804.50	699.00	105.50	804.50	0.14	0.17	0.17	0.58
13.375in Casing Surface	25.50	804.50	779.00	25.50	804.50	0.00	0.00	0.00	0.69
12.25in Open Hole	804.50	2636.50	1832.00	804.50	2636.27	0.69	0.58	0.58	-4.55
9.625in Casing Intermediate	25.50	2636.50	2611.00	25.50	2636.27	0.00	0.00	0.00	-6.40
8.75in Open Hole	2636.50	5993.50	3357.00	2636.27	5915.92	-6.40	-4.55	-4.55	-319.14
8.5in Open Hole	5993.50	16821.00	10827.50	5915.92	6561.05	-587.11	9351.56	-319.14	-3603.96
5.5in Casing Production	25.50	16821.00	16795.50	25.50	6561.05	0.00	9351.56	0.00	-3603.96

TARGETS						
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude
Sterling Unit 3H - POE - Rev-1	6517.00	-100.81	-531.37	1676526.00	14288740.00	39°20'53.511"N
Sterling Unit 3H - BHL - Rev-2	6540.00	9364.01	-3654.03	1673404.59	14298201.03	39°22'27.099"N
Sterling Unit 3H - LP - Rev-2	6540.00	64.98	-586.07	1676471.33	14288905.73	39°20'55.150"N
						80°52'20.176"W
						80°52'59.769"W
						80°52'20.869"W
						point
						point
						point



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Tyler County, WV	Well	Sterling Unit 3H
Field	Tyler	Wellbore	Sterling Unit 3H AWB
Facility	Meredith Pad		

WELLPATH COMPOSITION - Ref Wellbore: Sterling Unit 3H AWB Ref Wellpath: Sterling Unit 3H AWP Proj: 16821'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
25.50	780.50	Gyrodatta standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2">(100'-7'0")
780.50	2561.50	ISCWSA MWD, Rev. 4 (Standard)	02 Panther EM <12-1/4">(770')(832'-2651')
2561.50	5922.50	ISCWSA MWD, Rev. 4 (Standard)	03 Panther EM <8-3/4">(2551')(2655'-5912')
5922.50	16797.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2">(5922.5')(5971'-16797')
16797.00	16821.00	Blind Drilling (std)	Projection to bit
			Sterling Unit 3H AWB
			Sterling Unit 3H AWB
			Sterling Unit 3H AWB
			Sterling Unit 3H AWB



# Actual Wellpath Report

Sterling Unit 3H AWP Proj: 16821'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #03
ANTERO RESOURCES CORPORATION	Well	Sterling Unit 3H
Tyler County, WV	Wellbore	Sterling Unit 3H AWB
Tyler		
Meredith Pad		

## COMMENTS

Wellpath general comments  
 API: 47-095-02530-0000  
 BHI Job #: 109636525  
 Rig: H&P 317  
 Duration: 03/01/2019-03/03/2019  
 Gyrodatta MS Gyro <17-1/2">(100-770')  
 Panther EM <12-1/4">(770')(832'-2551')  
 Panther EM <8-3/4">(2551')(2655'-5912')  
 BH AT Curve <8-1/2"> (5922.5')(5971'-16797')  
 Middlesex: 6481' MD  
 Burkett: 6664' MD  
 Tully: 6742' MD  
 Marcellus POE: 6848' MD  
 Projected MD at TD: 16821'