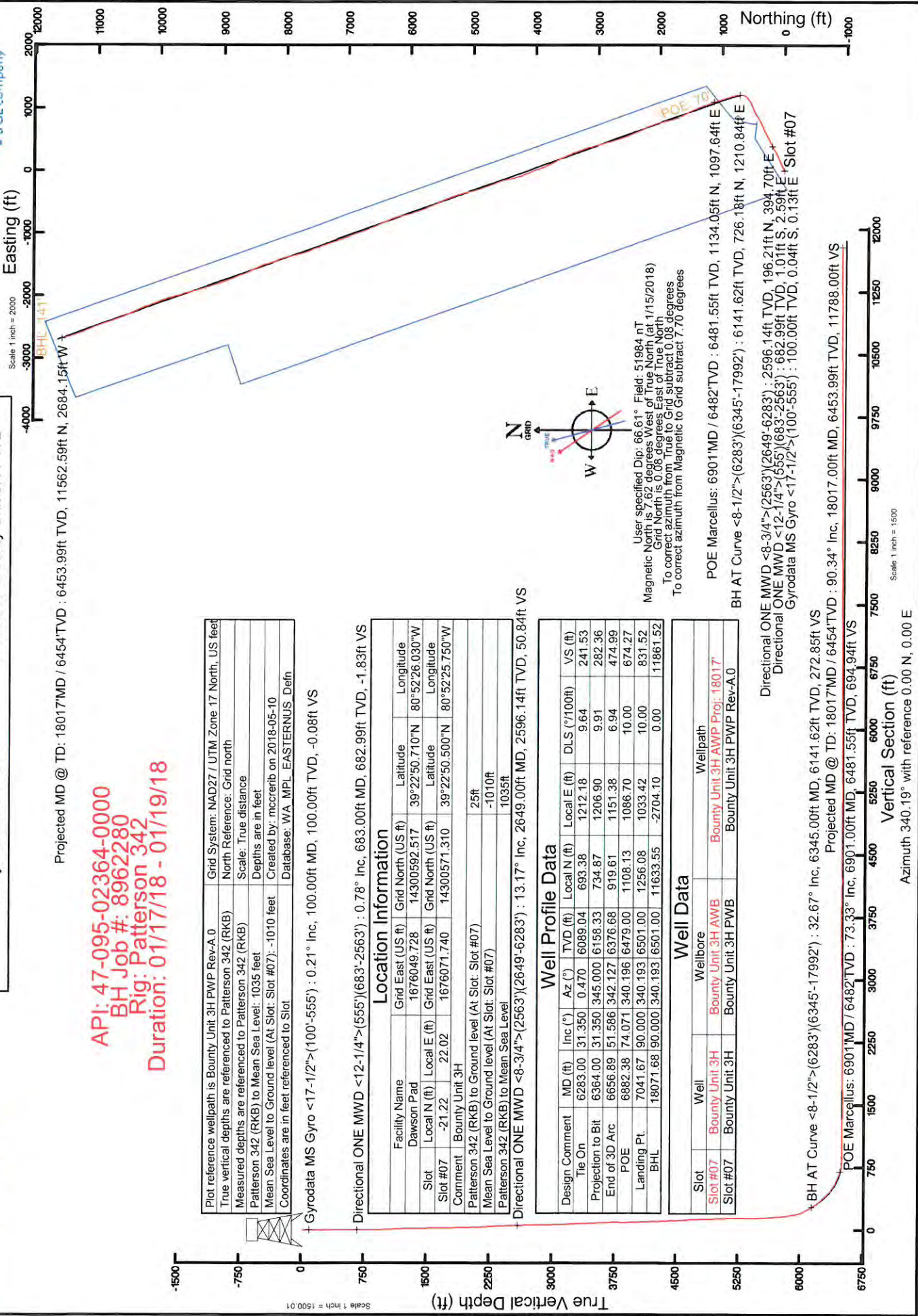




# ANTERO RESOURCES CORPORATION

Location: Tyler County, WV  
 Slot: Tyler  
 Well: Bounty Unit 3H  
 Facility: Dawson Pad  
 Wellbore: Bounty Unit 3H PWB



Scale 1 inch = 2000

Scale 1 inch = 1500

Projected MD @ TD: 18017'MD / 6454'TVD : 6453.99ft TVD, 11562.59ft N, 2684.15ft W

API: 47-095-02364-0000  
 BH Job #: 8962280  
 Rig: Patterson 342  
 Duration: 01/17/18 - 01/19/18

Plot reference wellpath is Bounty Unit 3H PWP Rev-A 0  
 True vertical depths are referenced to Patterson 342 (RKB)  
 Measured depths are referenced to Patterson 342 (RKB)  
 Patterson 342 (RKB) to Mean Sea Level: 1035 feet  
 Mean Sea Level to Ground level (At Slot: Slot #07): -1010 feet  
 Coordinates are in feet referenced to Slot  
 Grid System: NAD27 / UTM Zone 17 North, US feet  
 North Reference: Grid north  
 Scale: True distance  
 Depths are in feet  
 Created by: mccrebr on 2018-05-10  
 Database: WA\_MPL\_EASTERNUS\_Defn

Gyrodata MS Gyro <17-1/2">(100'-555') : 0.21° Inc, 100.00ft MD, 100.00ft TVD, -0.08ft VS

Directional ONE MWD <12-1/4">(555')(683'-2563') : 0.78° Inc, 683.00ft MD, 682.99ft TVD, -1.83ft VS

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Dawson Pad	1676049.728	14300592.517	39°22'50.710"N 80°52'26.030"W
Slot #07	Local N (ft)	Local E (ft)	Grid North (US ft)
	-21.22	22.02	1676071.740
Comment	Bounty Unit 3H		14300571.310
			80°52'25.750"W
Patterson 342 (RKB) to Ground level (At Slot: Slot #07)			25ft
Mean Sea Level to Ground level (At Slot: Slot #07)			-1010ft
Patterson 342 (RKB) to Mean Sea Level			1035ft
Directional ONE MWD <8-3/4">(2563')(2649'-6283') : 13.17° Inc, 2649.00ft MD, 2596.14ft TVD, 50.84ft VS			

Well Profile Data					
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	VS (ft)
The On	6283.00	31.350	0.470	6089.04	693.38
Projection to Bit	6364.00	31.350	345.000	6158.33	734.87
End of 3D Arc	6656.89	51.586	342.127	6376.68	919.61
POE	6882.38	74.071	340.196	6479.00	1108.13
Landing Pt	7041.67	90.000	340.193	6501.00	1256.08
BHL	18071.68	90.000	340.193	6501.00	11633.55
					-2704.10
					0.00
					117861.52

Well Data		
Slot	Well	Wellbore
Slot #07	Bounty Unit 3H	Bounty Unit 3H AWP Prop: 18017'
Slot #07	Bounty Unit 3H	Bounty Unit 3H PWP Rev-A 0

Directional ONE MWD <8-3/4">(2563')(2649'-6283') : 2596.14ft TVD, 196.21ft N, 394.70ft E  
 Directional ONE MWD <12-1/4">(555')(683'-2563') : 682.99ft TVD, 1.0ft S, 2.59ft E  
 Gyrodata MS Gyro <17-1/2">(100'-555') : 100.00ft TVD, 0.04ft S, 0.13ft E Slot #07

BH AT Curve <8-1/2">(6283')(6345'-17992') : 32.67° Inc, 6345.00ft MD, 6141.62ft TVD, 272.85ft VS

POE Marcellus: 6901'MD / 6482'TVD : 73.33° Inc, 6901.00ft MD, 6481.55ft TVD, 694.94ft VS

Projected MD @ TD: 18017'MD / 6454'TVD : 6453.99ft TVD, 11788.00ft VS

Vertical Section (ft)  
 Azimuth 340.19° with reference 0.00 N, 0.00 E

User specified Dip: 66.61° Field: 51984 nT  
 Magnetic North is 7.62 degrees West of True North (at 1/15/2018)  
 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 7.70 degrees

POE Marcellus: 6901'MD / 6482'TVD : 6481.55ft TVD, 1134.05ft N, 1097.64ft E  
 BH AT Curve <8-1/2">(6283')(6345'-17992') : 6141.62ft TVD, 726.18ft N, 1210.84ft E  
 Directional ONE MWD <8-3/4">(2563')(2649'-6283') : 2596.14ft TVD, 196.21ft N, 394.70ft E  
 Directional ONE MWD <12-1/4">(555')(683'-2563') : 682.99ft TVD, 1.0ft S, 2.59ft E  
 Gyrodata MS Gyro <17-1/2">(100'-555') : 100.00ft TVD, 0.04ft S, 0.13ft E Slot #07



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Dawson Pad
Slot	Slot #07
Well	Bounty Unit 3H
Wellbore	Bounty Unit 3H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999601
Convergence at slot	0.08° East
Software System	WellArchitect® 5.1
User	Mccrerieb
Report Generated	5/10/2018 at 2:08:49 PM
Database/Source file	WA_MPL_EASTERNUS_Defn/Bounty_Unit_3H_AWP_Proj_18017_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-21.22	22.02	1676071.74	14300571.31	39°22'50.500"N	80°52'25.750"W
Facility Reference Pt			1676049.73	14300592.52	39°22'50.710"N	80°52'26.030"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	Patterson 342 (RKB)
MD Reference Pt	Patterson 342 (RKB)
Field Vertical Reference	Mean Sea Level
	Patterson 342 (RKB) to Facility Vertical Datum
	Patterson 342 (RKB) to Mean Sea Level
	Patterson 342 (RKB) to Ground Level at Slot (Slot #07)
	Section Origin
	Section Azimuth
	25.00ft
	1035.00ft
	25.00ft
	N 0.00, E 0.00 ft
	340.19°



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Bounty Unit 3H
Field	Tyler	Wellbore	Bounty Unit 3H AWB
Facility	Dawson Pad		

WELLPATH DATA (213 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
0.00	0.00	106.100	0.00	0.00	0.00	0.00	1676071.74	14300571.31	39°22'50.500"N	80°52'25.750"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	106.100	25.00	0.00	0.00	0.00	1676071.74	14300571.31	39°22'50.500"N	80°52'25.750"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.21	106.100	100.00	-0.08	-0.04	0.13	1676071.87	14300571.27	39°22'50.500"N	80°52'25.748"W	0.14	106.100	0.28	0.28	0.28	141.47 Gyrodata MS Gyro <17-.12">(100'.555)
200.00	0.19	125.030	200.00	-0.32	-0.18	0.44	1676072.18	14300571.13	39°22'50.498"N	80°52'25.744"W	0.48	112.527	0.07	-0.02	-0.02	18.93
300.00	0.18	125.700	300.00	-0.59	-0.37	0.71	1676072.45	14300570.94	39°22'50.496"N	80°52'25.741"W	0.80	117.677	0.01	-0.01	0.01	0.67
400.00	0.10	127.400	400.00	-0.79	-0.52	0.90	1676072.64	14300570.79	39°22'50.495"N	80°52'25.738"W	1.04	119.696	0.08	-0.08	0.08	1.70
500.00	0.25	124.590	500.00	-1.04	-0.69	1.15	1676072.89	14300570.62	39°22'50.493"N	80°52'25.735"W	1.34	120.987	0.15	0.15	0.15	-2.81
555.00	0.31	105.300	555.00	-1.23	-0.80	1.40	1676073.13	14300570.51	39°22'50.492"N	80°52'25.732"W	1.61	119.823	0.20	0.11	-35.07	
683.00	0.78	97.940	682.99	-1.83	-1.01	2.59	1676074.33	14300570.30	39°22'50.490"N	80°52'25.717"W	2.78	111.317	0.37	0.37	-5.75	Directional ONE MWD <12-.14">(555)(683-2563)
774.00	4.34	73.370	773.89	-2.31	-0.11	6.51	1676078.24	14300571.20	39°22'50.499"N	80°52'25.667"W	6.51	90.981	4.01	3.91	-27.00	
864.00	8.21	64.550	863.33	-1.86	3.63	15.57	1676087.31	14300574.94	39°22'50.536"N	80°52'25.552"W	15.99	76.886	4.42	4.30	-9.82	
955.00	11.46	58.220	952.99	0.65	11.19	29.13	1676100.86	14300582.49	39°22'50.610"N	80°52'25.379"W	31.20	68.993	3.76	3.57	-6.93	
1044.00	13.74	59.270	1039.84	4.49	21.24	45.73	1676117.45	14300592.55	39°22'50.709"N	80°52'25.167"W	50.43	65.084	2.57	2.56	1.18	
1139.00	13.77	58.770	1132.11	8.86	32.87	65.10	1676136.81	14300604.17	39°22'50.824"N	80°52'24.920"W	72.93	63.209	0.13	0.03	-0.53	
1233.00	12.88	61.020	1223.58	12.75	43.75	83.83	1676155.54	14300615.04	39°22'50.931"N	80°52'24.682"W	94.56	62.441	1.10	-0.95	2.39	
1327.00	12.42	66.890	1315.30	15.00	52.79	102.29	1676173.99	14300624.08	39°22'51.020"N	80°52'24.446"W	115.11	62.702	1.45	-0.49	6.24	
1422.00	13.99	67.080	1407.79	16.21	61.27	122.27	1676193.96	14300632.56	39°22'51.104"N	80°52'24.192"W	136.76	63.382	1.65	1.65	0.20	
1516.00	15.01	67.500	1498.79	17.40	70.36	143.98	1676215.66	14300641.64	39°22'51.193"N	80°52'23.915"W	160.25	63.957	1.09	1.09	0.45	
1610.00	14.78	68.640	1589.63	18.29	79.38	166.39	1676238.06	14300650.66	39°22'51.282"N	80°52'23.630"W	184.36	64.495	0.40	-0.24	1.21	
1705.00	13.70	66.540	1681.72	19.34	88.28	188.00	1676259.66	14300659.55	39°22'51.370"N	80°52'23.354"W	207.69	64.847	1.26	-1.14	-2.21	
1799.00	13.24	65.480	1773.13	20.93	97.17	208.00	1676279.66	14300668.45	39°22'51.458"N	80°52'23.099"W	229.58	64.959	0.56	-0.49	-1.13	
1893.00	14.21	65.440	1864.44	22.77	106.44	228.29	1676299.94	14300677.71	39°22'51.549"N	80°52'22.841"W	251.88	65.003	1.03	1.03	-0.04	
1987.00	15.93	64.870	1955.21	24.92	116.71	250.46	1676322.10	14300687.98	39°22'51.650"N	80°52'22.558"W	276.32	65.015	1.84	1.83	-0.61	
2082.00	16.69	63.910	2046.38	27.62	128.25	274.52	1676346.15	14300699.51	39°22'51.764"N	80°52'22.252"W	303.00	64.959	0.85	0.80	-1.01	
2176.00	15.87	61.120	2136.62	31.13	140.39	297.90	1676369.57	14300711.65	39°22'51.883"N	80°52'21.954"W	329.32	64.767	1.21	-0.87	-2.97	
2270.00	13.46	54.470	2227.55	36.12	152.96	318.06	1676389.62	14300724.21	39°22'52.007"N	80°52'21.697"W	352.93	64.316	3.12	-2.56	-7.07	
2364.00	13.28	56.110	2319.01	41.71	165.34	335.92	1676407.53	14300736.58	39°22'52.129"N	80°52'21.469"W	374.41	63.794	0.45	-0.19	1.74	
2459.00	14.29	62.510	2411.27	45.93	176.83	355.38	1676426.98	14300748.07	39°22'52.243"N	80°52'21.221"W	396.95	63.546	1.92	1.06	6.74	
2553.00	13.07	63.790	2502.61	48.66	186.88	375.21	1676446.80	14300758.12	39°22'52.342"N	80°52'20.968"W	419.18	63.523	1.34	-1.30	1.36	
2563.00	12.85	64.130	2512.35	48.91	187.87	377.23	1676448.81	14300759.10	39°22'52.352"N	80°52'20.943"W	421.42	63.525	2.33	-2.20	3.40	



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #07
Operator	ANTERO RESOURCES CORPORATION		Bounty Unit 3H
Area	Tyler County, WV	Well	Bounty Unit 3H AWB
Field	Tyler	Wellbore	
Facility	Dawson Pad		

WELLPATH DATA (213 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
2649.00	13.17C	64.810	2596.14	50.84	196.21	394.70	1676466.28	14300767.44	39°22'52.434"N	80°52'20.720"W	440.78	63.567	0.41	0.37	0.79	Directional ONE MWD <8-3/4">(2563)(2649-6283)
2743.00	14.21C	63.450	2687.47	53.19	205.93	414.71	1676486.28	14300777.15	39°22'52.530"N	80°52'20.465"W	463.02	63.593	1.16	1.11	-1.45	
2836.00	15.06C	60.670	2777.45	56.53	216.95	435.45	1676507.02	14300798.17	39°22'52.638"N	80°52'20.201"W	486.50	63.517	1.19	0.91	-2.99	
2936.00	14.61C	65.860	2874.13	59.63	228.47	458.29	1676529.85	14300799.69	39°22'52.752"N	80°52'19.910"W	512.08	63.503	1.40	-0.45	5.19	
3030.00	13.63C	66.350	2966.28	61.27	237.76	479.25	1676550.80	14300808.98	39°22'52.843"N	80°52'19.642"W	534.99	63.614	1.05	-1.04	0.52	
3124.00	13.44C	64.500	3056.67	63.10	246.91	499.26	1676570.80	14300818.12	39°22'52.933"N	80°52'19.387"W	556.98	63.685	0.50	-0.20	-1.97	
3219.00	13.87C	62.350	3148.99	65.74	256.94	519.31	1676590.84	14300828.15	39°22'53.032"N	80°52'18.875"W	579.40	63.675	0.70	0.45	-2.26	
3313.00	14.46C	59.860	3240.13	69.38	268.07	539.44	1676610.96	14300839.27	39°22'53.142"N	80°52'18.605"W	602.37	63.576	0.90	0.63	-2.65	
3408.00	15.20C	61.650	3331.97	73.36	279.94	560.66	1676632.17	14300851.13	39°22'53.259"N	80°52'18.332"W	626.66	63.467	0.92	0.78	1.88	
3503.00	14.62C	60.920	3423.77	77.14	291.68	582.10	1676653.60	14300862.87	39°22'53.375"N	80°52'18.055"W	651.09	63.385	0.64	-0.61	-0.77	
3596.00	13.99C	61.190	3513.88	80.79	302.80	602.20	1676673.70	14300873.99	39°22'53.484"N	80°52'17.818"W	674.05	63.306	0.68	-0.68	0.29	
3691.00	13.89C	62.650	3606.09	84.08	313.57	622.39	1676693.89	14300884.76	39°22'53.591"N	80°52'17.553"W	696.92	63.260	0.38	-0.11	1.54	
3785.00	14.81C	63.570	3697.15	86.95	324.10	643.17	1676714.66	14300895.28	39°22'53.694"N	80°52'17.253"W	720.22	63.256	1.01	0.98	0.98	
3880.00	16.33C	72.610	3788.68	87.79	333.50	666.80	1676738.27	14300904.68	39°22'53.787"N	80°52'17.022"W	745.55	63.428	3.01	1.60	9.52	
3974.00	16.94C	70.940	3878.74	87.05	341.92	692.35	1676763.81	14300913.10	39°22'53.870"N	80°52'16.927"W	772.18	63.717	0.82	0.65	-1.78	
4068.00	17.38C	63.790	3968.57	88.43	352.60	717.89	1676789.35	14300923.76	39°22'53.975"N	80°52'16.601"W	799.81	63.842	2.29	0.47	-7.61	
4163.00	18.11C	61.130	4059.05	92.34	365.99	743.56	1676815.00	14300937.16	39°22'54.107"N	80°52'16.274"W	828.75	63.793	1.15	0.77	-2.80	
4257.00	16.49C	63.780	4148.80	96.13	378.94	768.32	1676839.75	14300950.10	39°22'54.235"N	80°52'15.959"W	856.69	63.747	1.92	-1.72	2.82	
4352.00	15.71C	63.340	4240.07	99.17	390.67	791.91	1676863.33	14300961.82	39°22'54.350"N	80°52'15.658"W	883.03	63.742	0.83	-0.82	-0.46	
4446.00	16.63C	59.390	4330.35	103.21	403.23	814.86	1676886.27	14300974.38	39°22'54.474"N	80°52'15.365"W	909.17	63.672	1.53	0.98	-4.20	
4540.00	14.40C	61.900	4420.92	107.42	415.59	836.75	1676908.16	14300986.73	39°22'54.596"N	80°52'15.086"W	934.27	63.588	2.48	-2.37	2.67	
4729.00	14.30C	54.620	4604.38	117.77	440.31	874.84	1676946.22	14301011.45	39°22'54.711"N	80°52'14.840"W	956.82	63.477	1.86	-0.97	-6.62	
4823.00	13.70C	57.580	4695.58	123.32	453.00	893.70	1676985.08	14301024.13	39°22'54.840"N	80°52'14.601"W	979.39	63.283	0.89	0.85	-1.12	
4918.00	13.35C	59.880	4787.95	127.74	464.54	912.68	1676988.06	14301035.66	39°22'55.079"N	80°52'14.360"W	1001.95	63.120	0.99	-0.64	3.15	
5012.00	12.98C	64.930	4879.48	130.65	474.46	931.63	1677003.00	14301045.58	39°22'55.176"N	80°52'13.877"W	1024.10	63.025	0.68	-0.37	2.42	
5106.00	13.71C	63.870	4970.94	132.84	483.84	951.19	1677022.55	14301054.95	39°22'55.289"N	80°52'13.628"W	1045.49	63.011	1.28	-0.39	5.37	
5200.00	13.67C	61.130	5062.27	135.82	494.11	970.92	1677042.27	14301065.22	39°22'55.370"N	80°52'13.376"W	1067.18	63.039	0.82	0.78	-1.13	
5294.00	12.65C	67.820	5153.81	137.99	503.36	990.18	1677061.53	14301074.46	39°22'55.481"N	80°52'13.131"W	1089.42	63.028	0.69	-0.04	-2.91	
5388.00	13.26C	68.490	5245.42	138.74	511.19	1009.74	1677081.08	14301082.30	39°22'55.538"N	80°52'12.882"W	1110.78	63.054	1.95	-1.09	7.12	
											1131.77	63.149	0.67	0.65	0.71	



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #07
Operator	ANTERO RESOURCES CORPORATION	Well	Bounty Unit 3H
Area	Tyler County, WV	Wellbore	Bounty Unit 3H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (213 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 (ft/100ft)	Comments
5482.00	13.760	67.440	5336.82	139.59	519.44	1030.10	1677101.42	14301090.54	39°22'55.619"N	80°52'12.622"W	1153.65	63.240	0.59	0.53	-1.12	
5577.00	15.340	70.830	5428.77	140.00	527.90	1052.40	1677123.72	14301099.00	39°22'55.703"N	80°52'12.338"W	1177.38	63.361	1.89	1.66	3.57	
5671.00	16.200	67.770	5519.24	141.78	538.18	1075.70	1677147.01	14301109.28	39°22'55.804"N	80°52'12.041"W	1202.82	63.421	2.77	0.91	-9.64	
5765.00	18.610	57.630	5608.94	146.96	552.42	1099.93	1677171.23	14301123.51	39°22'55.944"N	80°52'11.732"W	1230.86	63.333	2.88	2.56	-4.40	
5859.00	19.840	60.550	5697.69	152.89	568.29	1126.49	1677197.78	14301139.38	39°22'56.101"N	80°52'11.394"W	1261.72	63.230	1.66	1.31	3.11	
5953.00	21.740	57.140	5785.57	159.50	585.58	1155.00	1677226.28	14301156.66	39°22'56.271"N	80°52'11.030"W	1294.97	63.115	2.40	2.02	-3.63	
6000.00	22.690	48.640	5829.10	164.79	596.30	1169.12	1677240.40	14301167.37	39°22'56.377"N	80°52'10.850"W	1312.41	62.977	7.12	2.02	-18.09	
6048.00	20.810	41.810	5873.68	172.25	608.78	1181.76	1677253.03	14301179.84	39°22'56.500"N	80°52'10.689"W	1329.35	62.745	6.56	-3.92	-14.23	
6095.00	18.020	36.320	5918.01	180.27	620.86	1191.63	1677262.90	14301191.92	39°22'56.620"N	80°52'10.563"W	1343.67	62.480	7.09	-5.94	-11.68	
6141.00	19.620	28.290	5961.56	189.40	633.40	1199.51	1677270.77	14301204.45	39°22'56.743"N	80°52'10.463"W	1356.47	62.164	6.61	3.48	-17.46	
6188.00	23.440	17.270	6005.29	202.13	649.28	1206.03	1677277.29	14301220.33	39°22'56.900"N	80°52'10.379"W	1369.70	61.704	11.80	8.13	-23.45	
6236.00	28.880	8.050	6048.37	220.02	669.90	1210.49	1677281.75	14301240.94	39°22'57.104"N	80°52'10.322"W	1383.50	61.039	14.12	11.33	-19.21	
6283.00	31.350	0.470	6089.04	241.53	693.38	1212.18	1677283.44	14301264.41	39°22'57.336"N	80°52'10.300"W	1396.48	60.230	9.64	5.26	-16.13	
6340.00†	32.555	355.37	6137.41	270.25	723.50	1211.07	1677282.10	14301297.20	39°22'57.660"N	80°52'10.314"W	1410.72	59.146	5.18	2.11	-8.95	Sycamore. 6340MD / 6137TVD
6392.00	34.960	353.590	6180.67	298.22	752.20	1208.22	1677279.47	14301323.21	39°22'57.917"N	80°52'10.349"W	1423.24	58.095	5.13	4.87	-2.87	BH AT Curve <8-1/2" -> (6283) (6345 - 17992)
6439.00	38.460	350.980	6218.35	325.69	780.03	1204.42	1677275.68	14301351.03	39°22'58.193"N	80°52'10.397"W	1434.95	57.071	8.15	7.45	-5.58	
6486.00	41.050	347.690	6254.48	355.36	809.55	1198.84	1677270.10	14301380.54	39°22'58.484"N	80°52'10.468"W	1446.58	55.970	7.10	5.51	-7.00	
6534.00	43.470	344.900	6290.00	387.45	840.90	1191.17	1677262.44	14301411.87	39°22'58.794"N	80°52'10.565"W	1458.08	54.780	6.38	5.04	-5.81	
6581.00	46.010	341.790	6323.39	420.47	872.58	1181.68	1677252.94	14301443.54	39°22'59.108"N	80°52'10.685"W	1468.93	53.557	7.13	5.44	-6.50	Middlesex: 6552MD / 6303TVD
6628.00	49.530	341.310	6354.98	455.25	905.58	1170.66	1677241.93	14301476.53	39°22'59.434"N	80°52'10.825"W	1480.04	52.276	7.53	7.49	-1.02	
6722.00	59.760	342.520	6409.47	531.66	978.25	1146.94	1677218.22	14301511.63	39°22'59.781"N	80°52'10.973"W	1492.70	50.935	10.39	10.34	1.23	
6675.00	54.390	341.890	6383.93	492.25	940.70	1158.99	1677230.26	14301549.17	39°23'00.153"N	80°52'11.126"W	1507.46	49.538	11.48	11.43	1.34	
6729.00†	60.300	342.670	6412.96	537.72	984.04	1145.13	1677216.41	14301554.95	39°23'00.210"N	80°52'11.149"W	1509.85	49.327	7.94	7.72	2.15	Burket 6729MD / 6413TVD
6769.00	63.390	343.500	6431.83	572.93	1017.78	1134.87	1677206.16	14301588.68	39°23'00.543"N	80°52'11.279"W	1524.40	48.114	7.94	7.72	2.07	
6814.00†	66.323	343.490	6450.95	613.60	1056.83	1123.30	1677194.59	14301627.72	39°23'00.929"N	80°52'11.425"W	1542.30	46.746	6.53	6.53	-0.02	Tully: 6814MD / 6451TVD
6816.00	66.460	343.490	6451.75	615.43	1058.59	1122.78	1677194.07	14301629.47	39°23'00.947"N	80°52'11.432"W	1543.13	46.686	6.53	6.53	0.00	
6863.00	69.410	341.550	6469.41	658.94	1100.12	1109.89	1677180.98	14301670.99	39°23'01.358"N	80°52'11.598"W	1562.59	45.248	7.35	6.28	-4.13	
6901.00†	73.326	339.368	6481.55	694.94	1134.05	1097.64	1677168.94	14301704.90	39°23'01.693"N	80°52'11.751"W	1578.25	44.065	11.65	10.30	-5.74	POE Marcellus: 6901MD / 6482TVD



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #07
ANTERO RESOURCES CORPORATION	Well	Bounty Unit 3H
Tyler County, WV	Wellbore	Bounty Unit 3H AWB
Tyler		
Dawson Pad		

## WELLPATH DATA (213 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
6911.00	74.360	338.810	6484.33	704.65	1143.02	1094.21	1677165.51	14301713.87	39°23'01.782"N	80°52'11.794"W	1582.34	43.750	11.65	10.34	-5.58	
6958.00	79.380	338.940	6495.00	750.29	1185.70	1077.72	1677149.03	14301756.54	39°23'02.204"N	80°52'12.003"W	1602.30	42.269	10.68	10.68	0.28	
7005.00	83.680	340.760	6501.92	796.76	1229.33	1061.72	1677133.03	14301800.15	39°23'02.635"N	80°52'12.206"W	1624.35	40.816	9.92	9.15	3.87	
7052.00	88.550	341.980	6505.11	843.63	1273.75	1046.74	1677118.06	14301844.55	39°23'03.075"N	80°52'12.398"W	1648.67	39.413	10.68	10.36	2.60	
7099.00	90.680	341.220	6505.42	890.61	1318.35	1031.91	1677103.24	14301889.13	39°23'03.515"N	80°52'12.584"W	1674.18	38.051	4.81	4.53	-1.62	
7193.00	90.680	336.660	6504.31	984.56	1406.04	998.14	1677069.48	14301976.78	39°23'04.383"N	80°52'13.013"W	1724.31	35.371	4.85	0.00	-4.85	
7287.00	90.430	334.450	6503.40	1078.24	1491.60	959.25	1677030.60	14302062.31	39°23'05.229"N	80°52'13.507"W	1773.42	32.745	2.37	-0.27	-2.35	
7381.00	90.030	332.590	6503.02	1171.60	1575.74	917.34	1676988.71	14302146.41	39°23'06.061"N	80°52'14.039"W	1823.31	30.206	2.02	-0.43	-1.98	
7475.00	88.950	333.880	6503.86	1264.90	1659.66	875.01	1676946.40	14302230.30	39°23'06.891"N	80°52'14.576"W	1876.19	27.799	1.79	-1.15	-1.38	
7570.00	88.860	340.120	6505.67	1359.69	1747.05	837.91	1676899.32	14302317.66	39°23'07.755"N	80°52'15.047"W	1937.59	25.623	6.57	-0.09	6.57	
7664.00	89.140	343.170	6507.31	1453.63	1836.24	808.32	1676879.74	14302406.82	39°23'08.637"N	80°52'15.423"W	2006.28	23.759	3.26	0.30	3.24	
7758.00	90.550	346.860	6507.57	1547.28	1927.03	784.04	1676855.46	14302497.57	39°23'09.535"N	80°52'15.730"W	2080.42	22.140	4.22	1.50	3.95	
7852.00	91.110	344.430	6506.21	1640.84	2018.08	760.75	1676832.19	14302588.58	39°23'10.435"N	80°52'16.025"W	2156.71	20.655	2.67	0.60	-2.61	
7946.00	90.710	339.970	6504.71	1734.74	2107.55	732.03	1676803.47	14302678.01	39°23'11.320"N	80°52'16.389"W	2231.06	19.154	4.76	-0.43	-4.74	
8041.00	91.230	337.540	6503.10	1829.69	2196.07	687.61	1676769.07	14302766.50	39°23'12.195"N	80°52'16.826"W	2304.21	17.623	2.62	0.55	-2.56	
8135.00	90.920	334.210	6501.34	1923.39	2281.83	659.20	1676730.68	14302852.23	39°23'13.043"N	80°52'17.314"W	2375.15	16.114	3.56	-0.33	-3.54	
8229.00	89.630	335.290	6500.89	2016.97	2366.85	619.11	1676690.60	14302937.21	39°23'13.884"N	80°52'17.823"W	2446.48	14.659	1.79	-1.37	1.15	
8323.00	90.150	339.730	6501.07	2110.84	2453.68	583.16	1676654.67	14303024.01	39°23'14.743"N	80°52'18.279"W	2522.03	13.369	4.76	0.55	4.72	
8417.00	90.120	336.750	6500.85	2204.77	2540.97	548.32	1676619.84	14303111.26	39°23'15.606"N	80°52'18.721"W	2599.46	12.177	3.17	-0.03	-3.17	
8511.00	89.690	341.970	6501.00	2298.73	2628.91	515.19	1676586.73	14303199.16	39°23'16.476"N	80°52'19.142"W	2678.91	11.088	5.57	-0.46	5.55	
8606.00	90.400	345.430	6500.93	2393.54	2720.07	488.53	1676560.08	14303290.29	39°23'17.377"N	80°52'19.479"W	2763.60	10.182	3.72	0.75	3.64	
8700.00	90.520	344.460	6500.17	2487.21	2810.84	464.12	1676535.67	14303381.03	39°23'18.275"N	80°52'19.789"W	2848.90	9.376	1.04	0.13	-1.03	
8794.00	90.400	343.840	6499.42	2580.98	2901.27	438.45	1676510.01	14303471.41	39°23'19.169"N	80°52'20.114"W	2934.21	8.594	0.67	-0.13	-0.66	
8888.00	91.020	343.790	6498.26	2674.79	2991.53	412.25	1676483.82	14303561.64	39°23'20.061"N	80°52'20.446"W	3019.80	7.846	0.66	0.66	-0.05	
8982.00	90.340	344.490	6497.14	2768.56	3081.95	386.56	1676458.14	14303652.02	39°23'20.955"N	80°52'20.772"W	3106.09	7.149	1.04	-0.72	0.74	
9076.00	91.020	342.850	6496.02	2862.37	3172.14	360.13	1676431.73	14303742.18	39°23'21.847"N	80°52'21.107"W	3192.52	6.477	1.89	0.72	-1.74	
9171.00	90.800	339.990	6494.51	2957.33	3262.17	329.87	1676401.48	14303832.20	39°23'22.737"N	80°52'21.490"W	3278.81	5.774	3.02	-0.23	-3.01	
9265.00	91.230	339.110	6492.85	3051.31	3350.23	297.03	1676368.65	14303920.20	39°23'23.608"N	80°52'21.907"W	3363.38	5.067	1.04	0.46	-0.94	
9359.00	91.110	338.940	6490.93	3145.27	3437.99	263.39	1676335.03	14304007.92	39°23'24.476"N	80°52'22.334"W	3448.06	4.381	0.22	-0.13	-0.18	
9454.00	90.980	335.120	6489.20	3240.09	3525.42	226.33	1676297.98	14304095.32	39°23'25.341"N	80°52'22.804"W	3532.68	3.673	4.02	-0.14	-4.02	



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #07
ANTERO RESOURCES CORPORATION	Well	Bounty Unit 3H
Tyler County, WV	Wellbore	Bounty Unit 3H AWB
Tyler		
Dawson Pad		

## WELLPATH DATA (213 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
9548.00	90.680	333.880	6487.84	3333.62	3610.26	185.87	1676257.53	14304180.12	39°23'26.180"N	80°52'23.318"W	3615.04	2.947	1.36	-0.32	-1.32	
9643.00	91.320	332.010	6486.18	3427.84	3694.84	142.67	1676214.35	14304264.67	39°23'27.016"N	80°52'23.867"W	3697.60	2.211	2.08	0.67	-1.97	
9738.00	89.970	332.940	6485.11	3521.97	3779.08	98.77	1676170.47	14304348.88	39°23'27.849"N	80°52'24.425"W	3780.37	1.497	1.73	-1.42	0.98	
9832.00	89.910	338.010	6485.21	3615.62	3864.57	59.76	1676131.48	14304434.33	39°23'28.695"N	80°52'24.920"W	3865.03	0.886	5.39	-0.06	5.39	
9926.00	90.120	340.970	6485.18	3709.60	3952.60	26.83	1676098.56	14304522.33	39°23'29.565"N	80°52'25.338"W	3952.70	0.389	3.16	0.22	3.15	
10021.00	89.940	337.710	6485.13	3804.58	4041.48	-6.68	1676065.06	14304611.17	39°23'30.444"N	80°52'25.763"W	4041.49	359.905	3.44	-0.19	-3.43	
10115.00	89.990	337.020	6485.76	3898.46	4128.24	-42.86	1676028.90	14304697.90	39°23'31.302"N	80°52'26.222"W	4128.46	359.405	1.01	-0.68	-0.73	
10209.00	88.980	338.710	6487.18	3992.37	4215.30	-78.27	1675993.50	14304784.92	39°23'32.163"N	80°52'26.672"W	4216.03	358.936	1.83	-0.33	1.80	
10304.00	88.370	344.620	6489.38	4087.27	4305.41	-108.13	1675963.65	14304875.00	39°23'33.054"N	80°52'27.051"W	4306.77	358.561	6.25	-0.64	6.22	
10398.00	90.060	349.250	6490.67	4180.58	4396.94	-129.37	1675923.74	14304966.49	39°23'33.959"N	80°52'27.320"W	4398.84	358.315	5.24	1.80	4.93	
10492.00	91.260	347.820	6489.59	4273.58	4489.06	-148.06	1675892.74	14305058.57	39°23'34.870"N	80°52'27.566"W	4491.50	358.111	1.99	1.28	-1.52	
10587.00	89.970	340.770	6488.57	4368.27	4580.44	-173.75	1675858.06	14305149.92	39°23'35.773"N	80°52'27.882"W	4583.74	357.828	7.54	-1.36	-7.42	
10682.00	89.690	337.260	6488.85	4463.23	4669.13	-207.77	1675824.47	14305238.57	39°23'36.650"N	80°52'28.313"W	4673.75	357.452	3.71	-0.29	-3.69	
10778.00	90.490	337.920	6488.70	4559.13	4757.88	-244.37	1675787.47	14305327.28	39°23'37.528"N	80°52'28.778"W	4764.15	357.060	1.08	0.83	0.89	
10872.00	89.690	339.920	6488.55	4653.10	4845.58	-278.18	1675753.55	14305414.95	39°23'38.395"N	80°52'29.207"W	4853.56	356.714	2.29	-0.86	2.13	
10967.00	89.510	343.080	6489.21	4748.06	4935.66	-308.31	1675716.89	14305504.99	39°23'39.286"N	80°52'29.589"W	4945.28	356.426	3.33	-0.19	3.33	
11062.00	89.880	346.970	6489.72	4842.70	5027.41	-332.86	1675739.02	14305596.71	39°23'40.193"N	80°52'29.900"W	5038.42	356.212	4.11	0.39	4.09	
11156.00	89.970	345.790	6489.84	4936.15	5118.77	-354.99	1675716.89	14305688.03	39°23'41.096"N	80°52'30.181"W	5131.06	356.033	1.26	0.10	-1.26	
11251.00	89.780	342.680	6490.05	5030.91	5210.18	-380.80	1675691.09	14305779.41	39°23'42.000"N	80°52'30.508"W	5224.08	355.820	3.28	-0.20	-3.27	
11345.00	89.720	339.660	6490.46	5124.88	5299.14	-411.14	1675660.77	14305868.33	39°23'42.880"N	80°52'30.893"W	5315.07	355.564	3.21	-0.06	-3.21	
11439.00	89.780	338.660	6490.87	5218.86	5389.99	-444.58	1675627.34	14305956.14	39°23'43.749"N	80°52'31.317"W	5405.30	355.282	1.07	0.06	-1.06	
11534.00	90.370	337.750	6490.75	5313.81	5475.20	-479.85	1675592.08	14306044.31	39°23'44.621"N	80°52'31.765"W	5496.18	354.991	1.14	0.62	-0.96	
11628.00	90.280	334.730	6490.21	5407.57	5561.22	-517.72	1675554.23	14306130.30	39°23'45.472"N	80°52'32.245"W	5585.26	354.681	3.21	-0.10	-3.21	
11723.00	89.280	335.950	6489.75	5502.23	5647.55	-557.35	1675514.61	14306216.60	39°23'46.325"N	80°52'32.749"W	5674.99	354.364	1.28	0.00	1.28	
11817.00	89.940	338.350	6489.57	5596.09	5734.17	-593.85	1675478.13	14306303.18	39°23'47.182"N	80°52'33.212"W	5764.84	354.087	2.58	-0.36	2.55	
11912.00	90.150	338.680	6489.49	5691.05	5822.57	-628.65	1675443.35	14306391.54	39°23'48.056"N	80°52'33.654"W	5856.40	353.838	0.41	0.22	0.35	
12006.00	89.880	339.460	6489.47	5785.03	5910.36	-662.22	1675409.78	14306479.31	39°23'48.924"N	80°52'34.080"W	5947.35	353.607	0.88	-0.29	0.83	
12101.00	89.970	345.020	6489.59	5879.93	6000.80	-691.19	1675380.83	14306569.71	39°23'49.819"N	80°52'34.447"W	6040.48	353.429	5.65	0.09	5.65	
12195.00	91.230	347.870	6488.61	5973.35	6092.17	-713.22	1675358.81	14306661.04	39°23'50.722"N	80°52'34.726"W	6133.77	353.323	3.31	1.34	3.03	
12289.00	90.490	343.350	6487.20	6066.90	6183.18	-736.57	1675335.46	14306752.02	39°23'51.622"N	80°52'35.022"W	6226.90	353.207	4.87	-0.79	-4.81	



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #07
ANTERO RESOURCES CORPORATION	Well	Bounty Unit 3H
Tyler County, WV	Wellbore	Bounty Unit 3H AWB
Tyler		
Dawson Pad		

## WELLPATH DATA (213 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
12383.00	90.710	339.240	6486.21	6160.85	6272.19	-766.71	1675305.34	14306840.99	39°23'52.502"N	80°52'35.405"W	6318.88	353.031	4.38	0.23	4.37	
12478.00	90.250	337.380	6485.42	6255.80	6360.46	-801.82	1675270.24	14306929.22	39°23'53.375"N	80°52'35.850"W	6410.80	352.815	2.02	-0.48	-1.96	
12572.00	90.370	336.190	6484.91	6349.63	6446.85	-838.87	1675233.21	14307015.57	39°23'54.229"N	80°52'36.321"W	6501.19	352.886	1.27	0.13	-1.27	
12666.00	90.150	336.340	6484.48	6443.41	6532.89	-876.70	1675195.39	14307101.59	39°23'55.098"N	80°52'36.801"W	6591.46	352.357	0.28	-0.23	0.16	
12760.00	90.280	338.430	6484.13	6537.29	6619.66	-912.85	1675159.26	14307188.32	39°23'55.938"N	80°52'37.260"W	6682.31	352.148	2.23	0.14	2.22	
12855.00	90.150	338.300	6483.77	6632.24	6707.97	-947.87	1675124.25	14307276.59	39°23'56.811"N	80°52'37.705"W	6774.61	351.957	0.19	-0.14	-0.14	
12948.00	90.370	339.880	6483.35	6725.22	6794.84	-981.06	1675091.07	14307363.43	39°23'57.670"N	80°52'38.126"W	6865.30	351.784	1.72	0.24	1.70	
13043.00	90.250	340.110	6482.84	6820.21	6884.11	-1013.56	1675058.58	14307452.66	39°23'58.553"N	80°52'38.539"W	6958.22	351.624	0.27	-0.13	0.24	
13137.00	90.280	338.710	6482.40	6914.20	6972.10	-1046.62	1675025.54	14307540.62	39°23'59.423"N	80°52'38.958"W	7050.22	351.463	1.49	0.03	-1.49	
13231.00	90.370	339.170	6481.87	7008.18	7059.82	-1080.40	1674991.78	14307628.30	39°24'00.291"N	80°52'39.387"W	7142.01	351.299	0.50	0.10	0.49	
13326.00	90.180	341.960	6481.41	7103.17	7149.39	-1112.00	1674960.18	14307717.84	39°24'01.176"N	80°52'39.788"W	7235.36	351.159	2.94	-0.20	2.94	
13420.00	90.280	344.300	6481.03	7197.03	7239.34	-1139.28	1674932.92	14307807.75	39°24'02.066"N	80°52'40.134"W	7328.44	351.057	2.49	0.11	2.49	
13515.00	90.370	342.050	6480.49	7291.90	7330.27	-1166.78	1674905.43	14307898.64	39°24'02.965"N	80°52'40.483"W	7422.55	350.956	2.37	0.03	-2.37	
13609.00	90.310	338.420	6479.94	7385.88	7418.71	-1198.56	1674873.66	14307987.05	39°24'03.839"N	80°52'40.886"W	7514.91	350.823	3.86	-0.06	-3.86	
13703.00	90.220	338.740	6479.50	7479.84	7506.22	-1232.89	1674839.35	14308074.52	39°24'04.705"N	80°52'41.322"W	7606.80	350.673	0.35	-0.10	0.34	
13798.00	90.120	338.500	6479.22	7574.81	7594.68	-1267.52	1674804.73	14308162.95	39°24'05.580"N	80°52'41.761"W	7699.73	350.525	0.27	-0.11	-0.25	
13893.00	90.310	340.300	6478.86	7669.79	7683.60	-1300.94	1674771.32	14308251.84	39°24'06.459"N	80°52'42.186"W	7792.96	350.390	1.91	0.20	1.89	
13988.00	90.180	343.530	6478.46	7764.74	7773.90	-1330.43	1674741.84	14308342.09	39°24'07.352"N	80°52'42.560"W	7886.92	350.288	3.40	-0.14	3.40	
14082.00	90.250	347.280	6478.10	7858.33	7864.85	-1354.11	1674718.17	14308433.01	39°24'08.251"N	80°52'42.860"W	7980.57	350.231	3.99	0.07	3.99	
14176.00	91.020	346.760	6477.06	7951.66	7956.44	-1375.22	1674697.07	14308524.56	39°24'09.156"N	80°52'43.127"W	8074.41	350.194	0.99	0.82	-0.55	
14270.00	90.710	340.150	6475.64	8045.44	8046.49	-1401.97	1674670.33	14308614.57	39°24'10.047"N	80°52'43.466"W	8167.71	350.116	7.04	-0.33	-7.03	
14365.00	90.250	338.740	6474.85	8140.43	8135.43	-1435.33	1674636.99	14308703.48	39°24'10.926"N	80°52'43.890"W	8261.08	349.994	1.56	-0.48	-1.48	
14460.00	90.310	341.150	6474.38	8235.42	8224.67	-1467.90	1674604.43	14308792.68	39°24'11.809"N	80°52'44.303"W	8354.63	349.881	2.54	0.06	2.54	
14554.00	90.430	342.840	6473.77	8329.37	8313.98	-1497.19	1674575.15	14308881.96	39°24'12.692"N	80°52'44.675"W	8447.71	349.792	1.48	0.13	1.48	
14648.00	90.310	337.740	6473.17	8423.34	8402.36	-1529.11	1674543.24	14308970.31	39°24'13.566"N	80°52'45.080"W	8540.37	349.686	5.11	-0.13	-5.11	
14743.00	90.180	334.220	6472.76	8518.07	8489.12	-1567.78	1674504.59	14309057.03	39°24'14.424"N	80°52'45.571"W	8632.68	349.536	3.71	-0.14	-3.71	
14837.00	90.150	334.490	6472.49	8611.58	8573.86	-1608.46	1674463.93	14309141.74	39°24'15.262"N	80°52'46.088"W	8723.43	349.375	0.29	-0.03	0.29	
14931.00	90.090	337.900	6472.29	8705.34	8659.85	-1646.39	1674426.01	14309227.69	39°24'16.112"N	80°52'46.570"W	8814.97	349.236	3.63	-0.06	3.63	
15026.00	90.340	340.330	6471.94	8800.32	8748.60	-1680.26	1674392.16	14309316.41	39°24'16.990"N	80°52'47.000"W	8908.50	349.128	2.57	0.26	2.56	
15121.00	90.310	337.090	6471.40	8895.27	8837.11	-1714.75	1674357.68	14309404.88	39°24'17.865"N	80°52'47.437"W	9001.93	349.019	3.41	-0.03	-3.41	





# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #07
ANTERO RESOURCES CORPORATION	Well	Bounty Unit 3H
Tyler County, WV	Wellbore	Bounty Unit 3H AWB
Tyler		
Dawson Pad		

## WELLPATH DATA (213 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
15216.00	90.180	336.550	6470.99	8990.11	8924.44	-1752.14	1674320.30	14309492.17	39°24'18.729"N	80°52'47.912"W	9094.81	348.892	0.58	-0.14	-0.57	
15311.00	90.150	341.020	6470.72	9085.05	9012.97	-1786.51	1674285.95	14309580.67	39°24'19.604"N	80°52'48.349"W	9188.33	348.788	4.71	-0.03	4.71	
15406.00	90.280	343.600	6470.36	9179.98	9103.47	-1815.37	1674257.09	14309671.14	39°24'20.499"N	80°52'48.715"W	9282.72	348.722	2.72	0.14	2.72	
15501.00	90.340	342.250	6469.85	9274.87	9194.28	-1843.27	1674229.21	14309761.91	39°24'21.397"N	80°52'49.069"W	9377.23	348.664	1.42	0.06	-1.42	
15595.00	90.340	341.870	6469.29	9368.82	9283.71	-1872.22	1674200.27	14309851.30	39°24'22.281"N	80°52'49.436"W	9470.61	348.598	0.40	0.00	-0.40	
15689.00	90.460	343.590	6468.63	9462.72	9373.47	-1900.12	1674172.38	14309941.02	39°24'23.169"N	80°52'49.790"W	9564.12	348.541	1.83	0.13	1.83	
15784.00	90.340	343.400	6467.36	9651.35	9554.92	-1952.99	1674149.59	14310032.21	39°24'24.071"N	80°52'50.126"W	9658.80	348.494	0.46	-0.09	0.45	
15879.00	90.400	342.920	6466.75	9746.22	9645.84	-1980.51	1674092.03	14310123.29	39°24'24.963"N	80°52'50.460"W	9752.47	348.448	0.66	-0.03	-0.66	
16067.00	90.460	343.670	6466.04	9840.08	9735.87	-2007.53	1674065.02	14310303.28	39°24'26.752"N	80°52'51.152"W	9847.07	348.397	0.51	0.06	-0.51	
16161.00	90.620	344.350	6465.16	9933.86	9826.23	-2033.42	1674039.14	14310393.61	39°24'27.645"N	80°52'51.481"W	9940.69	348.349	0.80	0.06	0.80	
16256.00	90.740	340.910	6464.03	10028.75	9916.88	-2061.77	1674010.79	14310484.22	39°24'28.541"N	80°52'51.840"W	10034.42	348.308	0.74	0.17	0.72	
16350.00	90.740	336.910	6462.82	10122.70	10004.56	-2095.59	1673976.99	14310571.86	39°24'29.409"N	80°52'52.270"W	10128.94	348.255	3.62	0.13	-3.62	
16444.00	90.280	337.450	6461.98	10216.57	10091.20	-2132.04	1673940.55	14310658.46	39°24'30.265"N	80°52'52.733"W	10221.68	348.170	4.25	0.00	-4.26	
16538.00	90.310	343.290	6461.49	10310.53	10179.69	-2163.61	1673909.00	14310746.93	39°24'31.140"N	80°52'53.133"W	10313.96	348.070	0.75	-0.49	0.57	
16632.00	90.620	337.100	6460.73	10404.48	10268.09	-2195.44	1673877.18	14310835.29	39°24'32.014"N	80°52'53.537"W	10407.08	348.001	6.21	0.03	6.21	
16727.00	90.340	335.880	6459.94	10499.28	10355.20	-2233.33	1673839.30	14310922.36	39°24'32.876"N	80°52'54.019"W	10503.17	347.931	6.59	0.33	-6.59	
16821.00	90.490	335.260	6459.25	10592.97	10440.78	-2272.21	1673800.44	14311007.91	39°24'33.722"N	80°52'54.512"W	10593.29	347.829	1.32	-0.29	-1.28	
16915.00	90.000	337.310	6458.85	10686.74	10526.84	-2310.01	1673762.65	14311093.93	39°24'34.573"N	80°52'54.993"W	10685.17	347.722	0.68	0.16	-0.66	
17009.00	90.400	339.930	6458.52	10780.70	10614.36	-2344.28	1673728.40	14311181.42	39°24'35.439"N	80°52'55.428"W	10777.31	347.623	2.24	-0.52	2.18	
17103.00	90.090	339.300	6458.12	10874.69	10702.47	-2377.02	1673695.67	14311269.49	39°24'36.310"N	80°52'55.843"W	10870.15	347.546	2.82	0.43	2.78	
17197.00	90.220	341.300	6457.87	10968.69	10790.96	-2408.71	1673664.00	14311357.95	39°24'37.185"N	80°52'56.246"W	10963.26	347.478	0.75	-0.33	-0.67	
17292.00	90.520	341.750	6457.25	11063.66	10881.07	-2438.81	1673633.91	14311448.02	39°24'38.076"N	80°52'56.628"W	11056.53	347.417	2.13	0.14	2.13	
17386.00	90.770	339.310	6456.20	11157.64	10969.68	-2470.14	1673602.59	14311536.59	39°24'38.952"N	80°52'57.025"W	11151.03	347.367	0.57	0.32	0.47	
17480.00	90.310	338.180	6455.31	11251.61	11057.28	-2504.21	1673568.53	14311624.16	39°24'39.818"N	80°52'57.458"W	11244.35	347.310	2.61	0.27	-2.60	
17574.00	90.250	336.860	6454.85	11345.50	11144.13	-2540.15	1673532.61	14311710.98	39°24'40.677"N	80°52'57.914"W	11337.30	347.239	1.30	-0.48	-1.20	
17668.00	90.090	338.220	6454.57	11439.40	11231.00	-2576.06	1673496.71	14311797.81	39°24'41.536"N	80°52'58.371"W	11429.96	347.160	1.41	-0.06	-1.40	
17762.00	90.180	340.490	6454.35	11533.38	11318.96	-2609.20	1673463.58	14311885.73	39°24'42.406"N	80°52'58.791"W	11522.65	347.081	1.46	-0.17	1.45	
17856.00	90.180	341.710	6454.05	11627.37	11407.89	-2639.65	1673433.15	14311974.63	39°24'43.285"N	80°52'59.178"W	11615.80	347.019	2.42	0.10	2.41	
17950.00	89.600	344.940	6454.24	11721.22	11497.92	-2666.62	1673406.19	14312064.63	39°24'44.176"N	80°52'59.620"W	11709.30	346.972	1.30	0.00	1.30	
											11803.09	346.943	3.49	-0.62	3.44	



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #07
ANTERO RESOURCES CORPORATION	Bounty Unit 3H
Tyler County, WV	Bounty Unit 3H AWB
Tyler	
Dawson Pad	

## WELLPATH DATA (213 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
17975.00	90.370	345.050	6454.24	11746.13	11522.07	-2673.09	1673399.72	14312088.76	39°24'44.414"N	80°52'59.602"W	11828.08	346.939	3.11	3.08	0.44	
17992.00	90.340	344.650	6454.14	11763.07	11538.48	-2677.53	1673395.28	14312105.17	39°24'44.577"N	80°52'59.658"W	11845.07	346.936	2.36	-0.18	-2.35	
18017.00	90.340	344.650	6453.99	11788.00	11562.59	-2684.15	1673388.66	14312129.26	39°24'44.815"N	80°52'59.742"W	11870.05	346.931	0.00	0.00	0.00	Projected MD @ TD: 18017MD / 6454 TVD

## HOLE & CASING SECTIONS - Ref Wellbore: Bounty Unit 3H AWB Ref Wellpath: Bounty Unit 3H AWP Proj: 18017'

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	25.00	105.00	80.00	25.00	105.00	0.00	-0.04	0.00	0.15
17.5in Open Hole	105.00	583.60	478.60	105.00	583.60	-0.04	-0.84	0.15	1.57
13.375in Casing Surface	25.00	583.60	558.60	25.00	583.60	0.00	-0.84	0.00	1.57
12.25in Open Hole	583.60	2619.10	2035.50	583.60	2567.02	-0.84	193.31	1.57	388.56
9.625in Casing Intermediate	25.00	2619.10	2594.10	25.00	2567.02	0.00	193.31	0.00	388.56
8.75in Open Hole	2619.00	6283.00	3664.00	2566.93	6089.04	193.30	693.38	388.54	1212.18
8.5in Open Hole	6283.00	18017.00	11734.00	6089.04	6453.99	693.38	11562.59	1212.18	-2684.15
5.5in Casing Production	25.00	18017.00	17992.00	25.00	6453.99	0.00	11562.59	0.00	-2684.15



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #07
ANTERO RESOURCES CORPORATION	Well	Bounty Unit 3H
Tyler County, WV	Wellbore	Bounty Unit 3H AWB
Tyler		
Dawson Pad		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Bounty Unit 3H BHL - Plat	6479.00	11638.96	-2706.06	1673366.77	14312205.61	39°24'45.570"N	80°53'00.020"W	point
Bounty Unit 3H POE Rev-2	6479.00	1108.13	1086.70	1677158.00	14301679.00	39°23'01.437"N	80°52'11.891"W	point
Bounty Unit 3H BHL Rev-3	6501.00	11633.55	-2704.10	1673368.72	14312200.20	39°24'45.517"N	80°52'59.995"W	point
Bounty Unit 3H LP Rev-1	6501.00	1256.08	1033.41	1677104.74	14301826.89	39°23'02.900"N	80°52'12.566"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Bounty Unit 3H AWB Ref Wellpath: Bounty Unit 3H AWP Proj: 18017'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	555.00	Gyrodata standard - Single-shot	01 Gyrodata MS Gyro <17-1/2">(100-555)	Bounty Unit 3H AWB
555.00	2563.00	ISCWSA MWD, Rev. 4 (Standard)	02 Directional ONE MWD <12-1/4">(555)(683-2563)	Bounty Unit 3H AWB
2563.00	6283.00	ISCWSA MWD, Rev. 4 (Standard)	03 Directional ONE MWD <8-3/4">(2563)(2649-6283)	Bounty Unit 3H AWB
6283.00	17992.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2">(6283)(6345-17992)	Bounty Unit 3H AWB
17992.00	18017.00	Blind Drilling (std)	Projection to bit	Bounty Unit 3H AWB



# Actual Wellpath Report

Bounty Unit 3H AWP Proj: 18017'

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**REFERENCE WELLPATH IDENTIFICATION**

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Tyler County, WV	Well	Bounty Unit 3H
Field	Tyler	Wellbore	Bounty Unit 3H AWB
Facility	Dawson Pad		

**COMMENTS**

**Wellpath general comments**  
 API: 47-095-02364-0000  
 BH Job #: 8962280  
 Rig: Patterson 342  
 Duration: 01/17/18 - 01/19/18  
 Gyrodata MS Gyro <17-1/2">(100'-555')  
 Directional ONE MWD <12-1/4">(555')(683'-2563')  
 Directional ONE MWD <8-3/4">(2563')(2649'-6283')  
 Sycamore: 6340'MD / 6137'TVD  
 BH AT Curve <8-1/2">(6283')(6345'-17992')  
 Middlesex: 6552'MD / 6303'TVD  
 Burket: 6729'MD / 6413'TVD  
 Tully: 6814'MD / 6451'TVD  
 POE Marcellus: 6901'MD / 6482'TVD  
 Projected MD @ TD: 18017'MD / 6454'TVD