

ANTERO RESOURCES CORPORATION

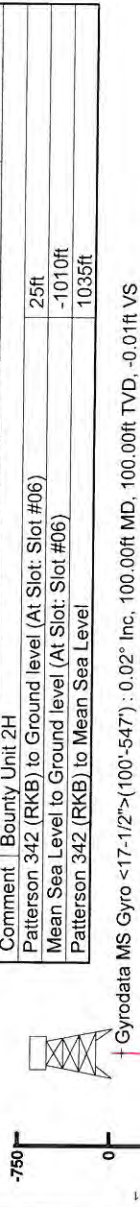
Location: Tyler County, WV
 Slot: Slot #06
 Well: Bounty Unit 2H
 Wellbore: Bounty Unit 2H PWB
 Facility: Dawson Pad



Project MD @ TD: 18171'MD / 6450'TVD : 6449.93ft TVD, 11265.22ft N, 3260.14ft W

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Bounty Unit 2H	Bounty Unit 2H AWB	Bounty Unit 2H AWP Proj: 18171'
Slot #06	Bounty Unit 2H	Bounty Unit 2H PWB	Bounty Unit 2H PWP Rev-A.0

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Dawson Pad	1676049.728	14300592.517	80°52'26.030"W
Slot #06	Local N (ft)	Grid North (US ft)	Longitude
Slot #06	-14.14	14300578.380	80°52'25.840"W
Comment: Bounty Unit 2H			
Patterson 342 (RKB) to Ground level (At Slot: Slot #06) 25ft			
Mean Sea Level to Ground level (At Slot: Slot #06) -1010ft			
Patterson 342 (RKB) to Mean Sea Level 1035ft			



Gyrodata MS Gyro <17-1/2">(100°-547') : 0.02° Inc, 100.00ft MD, 100.00ft TVD, -0.01ft VS
 Gyrodata MS Gyro <12-1/4">(547°)(631°-721') : 0.20° Inc, 631.00ft MD, 631.00ft TVD, -0.97ft VS
 Directional ONE MWD <12-1/4">(721°)(775°-2514') : 0.92° Inc, 775.00ft MD, 775.00ft TVD, -1.62ft VS

Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local E (ft)	VS (ft)
Tie On	6329.00	37.630	348.070	6211.75	205.42	4.25
Proj. To Bottom	6410.00	41.100	353.000	6274.38	256.07	5.76
End of 3D Arc	6617.55	56.383	352.005	6410.85	410.28	7.37
POE	6778.04	72.539	340.319	6480.00	549.84	12.00
Landing Pt.	6923.54	90.000	340.321	6502.00	684.74	12.00
BHL	18249.54	90.000	340.321	6502.00	11349.25	0.00
Directional ONE MWD <8-3/4">(2514°)(2647°-6329') : 1.19° Inc, 2647.00ft MD, 2645.07ft TVD, -3.93ft VS						

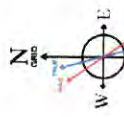
Plot reference wellpath is Bounty Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Measured depths are referenced to Patterson 342 (RKB)	Scale: True distance
Patterson 342 (RKB) to Mean Sea Level: 1035 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #06): -1010 feet	Created by: mccrebr on 2018-05-10
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn

API: 47-095-02412-0000
 BH Job #: 8957398
 Rig: Patterson 342
 Duration: 01/09/18 - 01/10/18

BH AT Curve <8-1/2">(6329°)(6402°-18148') : 39.85° Inc, 6402.00ft MD, 6268.69ft TVD, 23.84ft VS
 POE Marcellus: 6781'MD / 6477'TVD : 6476.74ft TVD, 330.05ft VS
 Project MD @ TD: 18171'MD / 6450'TVD : 90.15° Inc, 18171.00ft MD, 6449.93ft TVD, 11705.10ft VS
 BH AT Curve <8-1/2">(6329°)(6402°-18148') : 6268.69ft TVD, 250.19ft N, 628.72ft E
 Slot #06 +
 Gyrodata MS Gyro <17-1/2">(100°-547') : 100.00ft TVD, 0.01ft S, 0.01ft E
 Gyrodata MS Gyro <12-1/4">(547°)(631°-721') : 631.00ft TVD, 1.00ft S, 0.11ft E
 Directional ONE MWD <12-1/4">(721°)(775°-2514') : 775.00ft TVD, 1.52ft S, 0.54ft E
 Directional ONE MWD <8-3/4">(2514°)(2647°-6329') : 2645.07ft TVD, 10.39ft N, 40.73ft E

Vertical Section (ft)
 Azimuth 340.32° with reference 0.00 N, 0.00 E

User specified Dir: 66.62° Field: 51986 AT
 Magnetic North is 7.82 degrees West of True North (at 1/8/2018)
 Grid North is 0.08 degrees East of True North
 To correct azimuth from Magnetic to Grid subtract 7.70 degrees



Scale 1 inch = 2000

Scale 1 inch = 1500



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #06
Area	Tyler County, WV	Bounty Unit 2H
Field	Tyler	Bounty Unit 2H AWB
Facility	Dawson Pad	

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	Mccrerib
Report Generated	5/10/2018 at 10:55:50 AM
Database/Source file	WA_MPL_EASTERNUS_Defn/Bounty_Unit_2H_AWP_Proj_18171_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	-14.14	14.94	1676064.66	14300578.38	39°22'50.570"N	80°52'25.840"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 #06)
	Section Origin
	Section Azimuth
	25.00ft
	1035.00ft
	25.00ft
	N 0.00, E 0.00 ft
	340.32°



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Bounty Unit 2H
Field	Tyler	Wellbore	Bounty Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (215 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
0.00	0.000	113.000	0.00	0.00	0.00	0.00	1676064.66	14300578.38	39°22'50.570"N	80°52'25.840"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	113.000	25.00	0.00	0.00	0.00	1676064.66	14300578.38	39°22'50.570"N	80°52'25.840"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.020	113.000	100.00	-0.01	-0.01	0.01	1676064.67	14300578.37	39°22'50.570"N	80°52'25.840"W	0.01	113.000	0.03	0.03	150.87	Gyrodatta MS Gyro <17-172">(100'-547')
200.00	0.140	162.030	200.00	-0.14	-0.13	0.07	1676064.73	14300578.25	39°22'50.569"N	80°52'25.839"W	0.14	152.818	0.13	0.12	49.03	
300.00	0.100	151.720	300.00	-0.35	-0.32	0.14	1676064.80	14300578.06	39°22'50.567"N	80°52'25.838"W	0.35	155.728	0.05	-0.04	-10.31	
400.00	0.050	182.490	400.00	-0.48	-0.44	0.18	1676064.84	14300577.94	39°22'50.566"N	80°52'25.838"W	0.48	157.350	0.06	-0.05	30.77	
500.00	0.140	196.750	500.00	-0.62	-0.60	0.15	1676064.81	14300577.78	39°22'50.564"N	80°52'25.838"W	0.62	166.266	0.09	0.06	14.26	
547.00	0.170	179.430	547.00	-0.73	-0.73	0.13	1676064.79	14300577.65	39°22'50.563"N	80°52'25.838"W	0.74	169.759	0.12	0.06	-36.88	
631.00	0.200	189.090	631.00	-0.97	-1.00	0.11	1676064.77	14300577.38	39°22'50.560"N	80°52'25.839"W	1.00	173.733	0.05	0.04	11.50	Gyrodatta MS Gyro <12-114">(547')(631'-721')
721.00	0.260	177.040	721.00	-1.32	-1.37	0.10	1676064.76	14300577.01	39°22'50.557"N	80°52'25.833"W	1.37	175.997	0.10	0.09	-13.39	
775.00	0.920	92.850	775.00	-1.62	-1.52	0.54	1676065.20	14300576.86	39°22'50.555"N	80°52'25.833"W	1.62	160.635	1.73	1.19	-155.91	Directional ONE MWD <12-114">(721')(775'-2514')
865.00	4.010	79.280	864.90	-2.38	-0.97	4.35	1676069.01	14300577.41	39°22'50.596"N	80°52'25.785"W	4.46	102.630	3.47	3.43	-15.08	
955.00	6.190	77.130	954.54	-3.45	0.69	12.17	1676076.83	14300579.07	39°22'50.577"N	80°52'25.666"W	12.19	86.749	2.43	2.42	-2.39	
1046.00	5.880	79.520	1045.04	-4.78	2.63	21.54	1676086.19	14300581.01	39°22'50.616"N	80°52'25.566"W	21.70	83.033	0.44	-0.34	2.63	
1140.00	4.670	83.510	1138.64	-6.42	3.94	30.08	1676094.72	14300582.32	39°22'50.609"N	80°52'25.457"W	30.33	82.538	1.34	-1.29	4.24	
1234.00	3.300	83.390	1232.41	-7.90	4.68	36.57	1676101.21	14300583.06	39°22'50.616"N	80°52'25.374"W	36.87	82.700	1.46	-1.46	-0.13	
1328.00	1.650	90.700	1326.32	-8.99	4.98	40.61	1676105.25	14300583.36	39°22'50.619"N	80°52'25.323"W	40.91	83.009	1.78	-1.76	7.78	
1422.00	0.710	87.860	1420.30	-9.63	4.98	42.54	1676107.19	14300583.36	39°22'50.617"N	80°52'25.298"W	42.83	83.317	1.00	-1.00	-3.02	
1517.00	0.260	195.450	1515.29	-9.99	4.80	43.07	1676107.72	14300583.18	39°22'50.617"N	80°52'25.291"W	43.34	83.643	0.87	-0.47	113.25	
1611.00	0.640	177.780	1609.29	-10.66	4.07	43.04	1676107.68	14300582.45	39°22'50.610"N	80°52'25.292"W	43.23	84.599	0.43	0.40	-18.80	
1706.00	1.260	182.340	1704.28	-12.14	2.49	43.02	1676107.66	14300580.87	39°22'50.594"N	80°52'25.292"W	43.09	86.681	0.66	0.65	4.80	
1800.00	1.730	194.200	1798.24	-14.27	0.09	42.62	1676107.27	14300578.47	39°22'50.570"N	80°52'25.297"W	42.63	89.884	0.60	0.50	12.62	
1894.00	1.090	206.680	1892.22	-16.07	-2.09	41.88	1676106.52	14300576.29	39°22'50.549"N	80°52'25.307"W	41.93	92.854	0.75	-0.68	13.28	
1988.00	0.710	29.530	1986.21	-16.30	-2.38	41.76	1676106.40	14300576.00	39°22'50.546"N	80°52'25.308"W	41.83	93.262	1.91	-0.40	-188.46	
2083.00	0.950	24.300	2081.20	-15.35	-1.15	42.38	1676107.02	14300577.23	39°22'50.558"N	80°52'25.300"W	42.39	91.555	0.26	0.25	-5.51	
2176.00	0.990	15.050	2174.19	-14.14	0.33	42.90	1676107.54	14300578.71	39°22'50.573"N	80°52'25.294"W	42.90	89.561	0.17	0.04	-9.95	
2271.00	1.150	357.020	2269.17	-12.55	2.07	43.06	1676107.71	14300580.45	39°22'50.590"N	80°52'25.292"W	43.11	87.244	0.39	0.17	-18.98	
2365.00	1.390	351.250	2363.15	-10.53	4.14	42.84	1676107.49	14300582.52	39°22'50.610"N	80°52'25.294"W	43.04	84.478	0.29	0.26	-6.14	
2460.00	1.460	338.820	2458.12	-8.19	6.41	42.23	1676106.87	14300584.79	39°22'50.633"N	80°52'25.302"W	42.71	81.370	0.33	0.07	-13.08	
2514.00	1.350	335.140	2512.10	-6.87	7.63	41.71	1676106.36	14300586.00	39°22'50.645"N	80°52'25.309"W	42.41	79.637	0.26	-0.20	-6.81	



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 3 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Bounty Unit 2H
Area	Tyler County, WV	Wellbore	Bounty Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (215 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
2647.00	1.190	346.570	2645.07	-3.93	10.39	40.73	1676105.38	14300588.77	39°22'50.672"N	80°52'25.321"W	42.04	75.687	0.22	-0.12	8.59	Directional ONE MWD <-8-3/4">(2514)(2647-6329)
2746.00	1.420	67.140	2744.05	-2.84	11.87	41.63	1676106.27	14300590.24	39°22'50.687"N	80°52'25.310"W	43.29	74.085	1.71	0.23	81.38	
2840.00	4.190	78.260	2837.93	-3.25	13.02	46.06	1676110.70	14300591.40	39°22'50.698"N	80°52'25.253"W	47.87	74.216	2.99	2.95	11.83	
2934.00	7.950	74.940	2931.39	-4.25	15.41	55.71	1676120.34	14300593.78	39°22'50.722"N	80°52'25.130"W	57.80	74.537	4.02	4.00	-3.53	
3029.00	11.120	71.740	3025.06	-5.01	19.99	70.75	1676135.38	14300598.36	39°22'50.767"N	80°52'24.939"W	73.52	74.225	3.38	3.34	-3.37	
3123.00	12.510	78.560	3117.07	-6.69	24.85	89.34	1676153.97	14300603.22	39°22'50.814"N	80°52'24.702"W	92.73	74.457	2.09	1.48	7.26	
3217.00	12.360	86.410	3208.87	-10.43	28.02	109.31	1676173.93	14300606.39	39°22'50.845"N	80°52'24.447"W	112.85	75.622	1.12	-0.16	5.16	
3312.00	11.340	93.770	3301.86	-16.89	28.09	128.69	1676193.30	14300606.46	39°22'50.846"N	80°52'24.201"W	131.72	77.888	3.07	-1.07	14.06	
3406.00	10.410	112.990	3394.20	-26.77	23.68	145.69	1676210.29	14300602.05	39°22'50.802"N	80°52'23.984"W	147.61	80.768	3.39	-0.99	17.26	
3501.00	10.580	117.580	3487.61	-38.99	16.29	161.32	1676225.92	14300594.66	39°22'50.729"N	80°52'23.785"W	162.15	84.234	0.90	0.18	4.83	
3596.00	12.460	107.770	3672.81	-64.70	1.34	195.86	1676260.44	14300579.72	39°22'50.581"N	80°52'23.346"W	195.86	89.608	1.80	1.02	-7.17	
3784.00	12.340	100.670	3764.62	-75.94	-3.61	215.39	1676279.96	14300574.77	39°22'50.531"N	80°52'23.097"W	215.42	90.961	1.63	-0.13	-7.55	
3878.00	11.830	92.740	3856.54	-84.69	-5.93	234.88	1676299.45	14300572.45	39°22'50.508"N	80°52'22.849"W	234.96	91.447	1.85	-0.54	-8.44	
3973.00	11.740	85.170	3949.54	-90.88	-5.59	254.24	1676318.80	14300572.80	39°22'50.511"N	80°52'22.602"W	254.30	91.259	1.63	-0.09	-7.97	
4067.00	12.360	88.320	4041.47	-96.44	-4.49	273.83	1676338.38	14300573.90	39°22'50.522"N	80°52'22.353"W	273.86	90.939	0.96	0.66	3.35	
4161.00	12.730	87.550	4133.23	-102.62	-3.75	294.23	1676358.77	14300574.63	39°22'50.529"N	80°52'22.093"W	294.25	90.730	0.43	0.39	-0.82	
4256.00	13.120	88.430	4225.82	-109.07	-3.01	315.47	1676380.00	14300575.38	39°22'50.536"N	80°52'21.823"W	315.48	90.546	0.46	0.41	0.93	
4350.00	13.830	81.460	4317.24	-114.56	-1.05	337.24	1676401.77	14300577.34	39°22'50.555"N	80°52'21.545"W	337.24	90.178	1.88	0.76	-7.41	
4445.00	12.980	88.580	4409.66	-120.09	0.91	359.14	1676423.65	14300579.29	39°22'50.574"N	80°52'21.286"W	359.14	89.856	1.95	-0.89	7.49	
4539.00	12.790	90.660	4501.29	-127.02	1.05	380.10	1676444.60	14300579.43	39°22'50.575"N	80°52'20.999"W	380.10	89.842	0.53	-0.20	2.21	
4633.00	12.700	86.330	4592.98	-133.48	1.59	400.81	1676465.31	14300579.97	39°22'50.580"N	80°52'20.736"W	400.82	89.773	1.02	-0.10	-4.61	
4727.00	11.860	86.800	4684.83	-139.07	2.79	420.77	1676485.26	14300581.17	39°22'50.592"N	80°52'20.481"W	420.78	89.620	0.90	-0.89	0.50	
4822.00	11.100	91.940	4777.93	-145.21	3.02	439.66	1676504.14	14300581.40	39°22'50.594"N	80°52'20.241"W	439.67	89.606	1.34	-0.80	5.41	
4916.00	9.500	100.870	4870.42	-152.49	1.26	456.32	1676520.80	14300579.63	39°22'50.576"N	80°52'20.029"W	456.32	89.842	2.40	-1.70	9.50	
5011.00	10.630	94.470	4963.95	-160.06	-0.91	472.75	1676537.23	14300577.47	39°22'50.554"N	80°52'19.819"W	472.76	90.110	1.67	1.19	-6.74	
5105.00	10.500	90.850	5056.38	-166.61	-1.71	489.96	1676554.43	14300576.67	39°22'50.546"N	80°52'19.600"W	489.97	90.200	0.72	-0.14	-3.85	
5199.00	9.810	85.330	5148.89	-171.69	-1.18	506.51	1676570.97	14300576.20	39°22'50.551"N	80°52'19.390"W	506.51	90.134	1.27	-0.73	-5.87	
5292.00	10.350	83.010	5240.46	-175.58	0.48	522.70	1676587.15	14300578.86	39°22'50.567"N	80°52'19.183"W	522.70	89.948	0.73	0.58	-2.49	
5387.00	10.350	87.140	5333.91	-179.92	1.94	539.69	1676604.14	14300580.32	39°22'50.582"N	80°52'18.967"W	539.70	89.794	0.78	0.00	4.35	



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'
Page 4 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Bounty Unit 2H
Field	Tyler	Wellbore	Bounty Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (215 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
5481.00	10.650	97.200	5426.34	-186.29	1.27	556.74	1676621.18	14300579.65	39°22'50.575"N	80°52'18.750"W	556.75	89.869	1.97	0.32	10.70	
5575.00	12.760	96.440	5518.39	-194.79	-0.98	575.68	1676640.11	14300577.40	39°22'50.552"N	80°52'18.509"W	575.68	90.097	2.25	2.24	-0.81	
5669.00	15.710	95.830	5609.49	-204.84	-3.44	598.66	1676663.08	14300574.95	39°22'50.528"N	80°52'18.216"W	598.67	90.329	3.14	3.14	-0.65	
5764.00	13.040	86.880	5701.52	-213.44	-4.16	622.16	1676688.57	14300574.22	39°22'50.520"N	80°52'17.917"W	622.18	90.383	3.65	-2.81	-9.42	
5811.00	10.850	67.970	5747.51	-214.77	-2.21	631.56	1676695.97	14300576.17	39°22'50.539"N	80°52'17.797"W	631.57	90.201	9.48	-4.66	-40.23	
5858.00	11.510	41.930	5793.65	-212.36	2.94	638.80	1676703.21	14300581.32	39°22'50.590"N	80°52'17.705"W	638.81	89.736	10.74	1.40	-55.40	
5905.00	15.340	25.990	5839.37	-205.78	12.02	644.66	1676709.07	14300590.40	39°22'50.680"N	80°52'17.630"W	644.78	88.931	11.26	8.15	-33.91	
5952.00	18.720	19.700	5884.31	-195.60	24.72	649.93	1676714.33	14300603.09	39°22'50.805"N	80°52'17.563"W	650.40	87.822	8.18	7.19	-13.38	
5999.00	21.430	12.400	5928.48	-182.49	40.21	654.32	1676718.72	14300618.57	39°22'50.958"N	80°52'17.507"W	655.55	86.483	7.84	5.77	-15.53	
6046.00	23.730	3.250	5971.87	-166.50	58.04	656.70	1676721.10	14300636.40	39°22'51.135"N	80°52'17.476"W	659.26	84.949	8.92	4.89	-19.47	
6094.00	27.120	357.100	6015.22	-147.12	78.62	656.70	1676721.09	14300656.97	39°22'51.338"N	80°52'17.476"W	661.39	83.173	8.94	7.06	-12.81	
6188.00	32.680	353.100	6096.19	-101.01	126.09	652.50	1676716.90	14300704.42	39°22'51.807"N	80°52'17.495"W	662.86	81.244	8.74	8.46	-4.54	
6230.00†	33.865	350.838	6131.31	-78.45	148.90	649.28	1676713.68	14300727.23	39°22'52.033"N	80°52'17.569"W	664.57	79.063	4.06	2.82	-5.39	Sycamore: 6230'IMD / 6131'TVD
6234.00	33.980	350.630	6134.63	-76.25	151.11	648.92	1676713.32	14300729.43	39°22'52.054"N	80°52'17.573"W	666.13	77.083	4.09	2.82	-5.20	
6281.00	35.610	347.570	6173.23	-49.75	177.43	643.83	1676708.23	14300755.74	39°22'52.315"N	80°52'17.638"W	667.83	74.592	5.08	3.47	-6.51	
6329.00	37.630	348.070	6211.75	-21.37	205.42	637.79	1676702.20	14300783.72	39°22'52.591"N	80°52'17.714"W	670.06	72.147	4.25	4.21	1.04	
6402.00	39.850	348.980	6268.69	23.84	250.19	628.72	1676693.12	14300828.47	39°22'53.034"N	80°52'17.829"W	676.67	68.301	3.14	3.04	1.25	BH AT Curve <8-1/2"> (6329)(6402-18148')
6439.00	41.520	348.360	6296.74	47.71	273.84	623.97	1676688.38	14300852.11	39°22'53.268"N	80°52'17.889"W	681.42	66.305	4.64	4.51	-1.68	
6444.00†	42.017	348.453	6300.47	51.00	277.10	623.31	1676687.72	14300855.37	39°22'53.300"N	80°52'17.897"W	682.12	66.032	10.01	9.93	1.86	Middlesex: 6444'IMD / 6300'TVD
6488.00	46.390	349.200	6332.01	81.33	307.19	617.37	1676681.78	14300885.44	39°22'53.934"N	80°52'17.972"W	689.57	63.546	10.01	9.94	1.70	
6534.00	51.220	349.670	6362.29	115.50	341.21	611.03	1676675.45	14300919.45	39°22'54.299"N	80°52'18.052"W	699.84	60.821	10.53	10.50	1.02	
6581.00	54.670	349.600	6390.61	152.51	378.10	604.28	1676668.70	14300956.33	39°22'54.679"N	80°52'18.136"W	712.82	57.966	7.34	7.34	-0.15	
6615.00†	57.447	349.036	6409.59	180.37	405.81	598.05	1676663.47	14300984.03	39°22'54.573"N	80°52'18.204"W	723.57	55.885	8.28	8.17	-1.66	Burket: 6615'IMD / 6410'TVD
6628.00	58.510	348.830	6416.49	191.26	416.63	596.94	1676661.36	14300994.84	39°22'54.679"N	80°52'18.230"W	727.95	55.087	8.28	8.17	-1.59	
6675.00	63.790	349.120	6439.16	231.95	457.02	589.07	1676653.49	14301035.22	39°22'55.079"N	80°52'18.330"W	745.57	52.194	11.25	11.23	0.62	
6691.00†	65.536	348.778	6446.00	246.24	471.21	586.30	1676650.72	14301049.40	39°22'55.219"N	80°52'18.365"W	752.19	51.211	11.08	10.91	-2.14	Jully: 6691'IMD / 6446'TVD
6722.00	68.920	348.140	6458.00	274.54	499.21	580.58	1676645.00	14301077.39	39°22'55.496"N	80°52'18.437"W	765.69	49.309	11.08	10.92	-2.06	
6769.00	72.980	346.730	6473.34	318.61	542.56	570.91	1676635.34	14301120.73	39°22'55.925"N	80°52'18.560"W	787.60	46.458	9.09	8.64	-3.00	
6781.00†	74.093	346.520	6476.74	330.05	553.76	568.25	1676632.68	14301131.92	39°22'56.035"N	80°52'18.593"W	793.44	45.740	9.42	9.27	-1.75	POE Marcellus: 6781'IMD / 6477'TVD



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Bounty Unit 2H
Area	Tyler County, WV	Wellbore	Bounty Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (215 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
6816.00	77.340	345.920	6485.37	363.78	586.70	560.17	1676624.60	14301164.84	39°22'56.361"N	80°52'18.696"W	811.17	43.675	9.42	9.28	-1.71	
6863.00	80.330	344.960	6494.47	409.70	631.32	548.57	1676613.02	14301209.45	39°22'56.802"N	80°52'18.843"W	836.36	40.968	6.67	6.36	-2.04	
6911.00	86.030	342.350	6500.17	457.26	677.03	535.16	1676599.61	14301255.14	39°22'57.254"N	80°52'19.012"W	863.00	38.325	13.04	11.88	-5.44	
6958.00	90.310	342.720	6501.67	504.19	721.83	521.07	1676585.52	14301299.92	39°22'57.697"N	80°52'19.191"W	890.25	35.824	9.14	9.11	0.76	
7005.00	90.400	343.190	6501.38	551.14	766.76	507.29	1676571.75	14301344.84	39°22'58.141"N	80°52'19.366"W	919.39	33.489	1.02	0.19	1.00	
7099.00	90.310	342.180	6500.80	645.05	856.50	479.32	1676443.78	14301434.54	39°22'59.029"N	80°52'19.720"W	981.50	29.232	1.08	-0.10	-1.07	
7193.00	90.460	339.850	6500.17	739.04	945.38	448.74	1676513.22	14301523.38	39°22'59.907"N	80°52'20.108"W	1046.47	25.392	2.48	0.16	-2.48	
7287.00	90.370	338.920	6499.49	833.02	1033.36	415.64	1676480.14	14301611.32	39°23'00.777"N	80°52'20.528"W	1113.82	21.911	0.99	-0.10	-0.99	
7381.00	90.310	337.000	6498.93	926.94	1120.48	380.37	1676444.88	14301698.41	39°23'01.639"N	80°52'20.976"W	1183.29	18.751	2.04	-0.06	-2.04	
7475.00	90.120	334.880	6498.58	1020.66	1206.31	342.05	1676406.57	14301784.21	39°23'02.488"N	80°52'21.462"W	1253.87	15.831	2.26	-0.20	-2.26	
7570.00	90.180	336.990	6498.33	1115.37	1293.05	303.31	1676367.85	14301870.91	39°23'03.346"N	80°52'21.954"W	1328.15	13.201	2.22	0.06	2.22	
7664.00	90.060	339.560	6498.13	1209.30	1380.36	268.52	1676333.08	14301958.19	39°23'04.209"N	80°52'22.396"W	1406.24	11.008	2.74	-0.13	2.73	
7758.00	90.150	336.760	6497.96	1303.23	1467.61	233.56	1676298.12	14302045.40	39°23'05.072"N	80°52'22.839"W	1486.08	9.042	2.98	0.10	-2.98	
7852.00	90.000	337.570	6497.84	1397.09	1554.24	197.08	1676261.66	14302132.00	39°23'05.929"N	80°52'23.302"W	1566.69	7.227	0.88	-0.16	0.86	
7946.00	89.940	339.350	6497.88	1491.03	1641.67	162.57	1676227.16	14302219.39	39°23'06.793"N	80°52'23.740"W	1649.70	5.855	1.89	-0.06	1.89	
8041.00	89.970	339.560	6497.96	1586.02	1730.63	129.23	1676193.84	14302308.32	39°23'07.673"N	80°52'24.163"W	1735.45	4.270	0.22	0.03	0.22	
8135.00	90.220	340.520	6497.80	1680.02	1818.98	97.14	1676161.76	14302396.63	39°23'08.547"N	80°52'24.570"W	1821.57	3.057	1.06	0.27	1.02	
8229.00	89.940	343.310	6497.87	1773.97	1908.33	67.96	1676132.60	14302485.94	39°23'09.430"N	80°52'24.940"W	1909.54	2.040	2.98	-0.30	2.97	
8323.00	90.310	344.770	6497.47	1867.77	1998.70	42.12	1676106.76	14302576.28	39°23'10.324"N	80°52'25.268"W	1999.15	1.207	1.60	0.39	1.55	
8417.00	90.490	340.330	6496.81	1961.67	2088.35	13.94	1676078.59	14302665.90	39°23'11.210"N	80°52'25.625"W	2088.40	0.382	4.73	0.19	-4.72	
8511.00	90.250	340.440	6496.20	2055.67	2176.90	-17.62	1676047.05	14302754.40	39°23'12.086"N	80°52'26.026"W	2176.97	359.536	0.28	-0.26	0.12	
8606.00	90.430	339.760	6495.64	2150.67	2266.22	-49.95	1676014.73	14302843.69	39°23'12.969"N	80°52'26.436"W	2266.77	358.737	0.74	0.19	-0.72	
8700.00	90.740	339.640	6494.68	2244.66	2354.38	-82.56	1675982.13	14302931.81	39°23'13.841"N	80°52'26.850"W	2355.82	357.992	0.35	0.33	-0.13	
8794.00	90.990	341.390	6493.26	2338.64	2442.98	-113.91	1675950.79	14303020.38	39°23'14.717"N	80°52'27.247"W	2445.63	357.330	1.88	0.27	1.86	
8888.00	90.690	343.190	6491.89	2432.57	2532.51	-142.50	1675922.21	14303109.88	39°23'15.602"N	80°52'27.610"W	2536.52	356.779	1.94	-0.33	1.91	
8982.00	90.850	342.930	6490.55	2526.46	2622.42	-169.89	1675894.84	14303199.75	39°23'16.491"N	80°52'27.957"W	2627.92	356.293	0.40	0.29	-0.28	
9076.00	90.770	341.170	6489.14	2620.40	2711.84	-198.86	1675866.88	14303289.13	39°23'17.375"N	80°52'28.324"W	2719.12	355.806	1.88	-0.19	-1.87	
9171.00	90.250	338.960	6488.30	2715.39	2801.13	-231.24	1675833.51	14303378.39	39°23'18.258"N	80°52'28.735"W	2810.66	355.281	2.39	-0.55	-2.33	
9265.00	90.310	340.780	6487.84	2809.38	2889.39	-263.59	1675801.17	14303466.61	39°23'19.131"N	80°52'29.146"W	2901.39	354.787	1.94	0.06	1.94	
9359.00	90.280	343.940	6487.35	2903.31	2978.95	-292.07	1675772.70	14303556.14	39°23'20.017"N	80°52'29.507"W	2993.24	354.400	3.36	-0.03	3.36	



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Bounty Unit 2H
Field	Tyler	Wellbore	Bounty Unit 2H AWB
Facility	Dawson Pad		

WELLPATH DATA (215 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
9454.00	90.710	342.650	6486.53	2998.17	3069.94	-319.38	1675745.41	14303647.09	39°23'20.916"N	80°52'29.853"W	3086.51	354.061	1.43	0.45	-1.36	
9548.00	89.780	344.790	6486.13	3092.00	3160.16	-345.73	1675719.07	14303737.28	39°23'21.808"N	80°52'30.187"W	3179.02	353.757	2.48	-0.99	-2.28	
9643.00	89.450	344.490	6486.77	3186.73	3251.77	-370.89	1675693.92	14303828.85	39°23'22.714"N	80°52'30.506"W	3272.85	353.493	0.47	-0.35	-0.32	
9738.00	90.030	342.640	6487.20	3281.57	3342.88	-397.77	1675667.05	14303919.92	39°23'23.615"N	80°52'30.847"W	3366.46	353.214	2.04	0.61	-1.95	
9832.00	89.510	340.350	6487.58	3375.54	3432.01	-427.60	1675637.23	14304009.02	39°23'24.496"N	80°52'31.225"W	3458.55	352.898	2.50	-0.55	-2.44	
9926.00	90.060	338.230	6487.93	3469.52	3519.93	-460.84	1675604.01	14304098.90	39°23'25.366"N	80°52'31.647"W	3549.97	352.541	2.33	0.59	-2.26	
10021.00	89.480	337.680	6488.31	3564.44	3607.99	-496.49	1675568.36	14304184.92	39°23'26.237"N	80°52'32.100"W	3641.99	352.165	0.84	-0.61	-0.58	
10115.00	89.910	339.050	6488.81	3658.38	3695.36	-531.15	1675533.72	14304272.26	39°23'27.101"N	80°52'32.539"W	3733.34	351.821	1.53	0.46	1.46	
10209.00	89.910	341.080	6488.96	3752.38	3783.73	-563.19	1675497.59	14304360.59	39°23'27.974"N	80°52'32.946"W	3825.41	351.534	2.17	0.00	2.17	
10304.00	90.740	340.140	6488.42	3847.37	3873.34	-594.72	1675470.18	14304450.17	39°23'28.860"N	80°52'33.346"W	3918.73	351.271	1.33	0.87	-1.00	
10398.00	90.180	338.220	6487.67	3941.35	3961.19	-628.13	1675436.78	14304537.99	39°23'29.729"N	80°52'33.770"W	4010.68	350.990	2.13	-0.60	-2.04	
10492.00	89.940	337.920	6487.57	4035.27	4048.39	-663.24	1675401.69	14304625.15	39°23'30.592"N	80°52'34.216"W	4102.36	350.696	0.41	-0.26	-0.32	
10587.00	90.220	339.550	6487.44	4130.23	4136.92	-697.69	1675367.25	14304713.64	39°23'31.467"N	80°52'34.653"W	4195.34	350.427	1.74	0.29	1.72	
10682.00	90.000	338.340	6487.25	4225.20	4225.57	-731.82	1675333.13	14304802.26	39°23'32.344"N	80°52'35.086"W	4288.48	350.175	1.29	-0.23	-1.27	
10776.00	90.030	340.640	6487.03	4413.17	4401.64	-797.70	1675299.32	14304889.93	39°23'33.211"N	80°52'35.515"W	4380.70	349.984	1.22	0.13	1.21	
10870.00	89.970	340.230	6487.03	4508.17	4491.15	-829.51	1675267.28	14305067.74	39°23'34.970"N	80°52'35.922"W	4473.34	349.728	1.24	-0.10	1.23	
10965.00	89.870	338.090	6487.08	4603.15	4579.93	-863.31	1675235.48	14305156.48	39°23'36.704"N	80°52'36.326"W	4567.12	349.535	0.44	-0.06	-0.43	
11060.00	89.880	336.160	6487.20	4696.99	4666.54	-899.85	1675165.17	14305243.05	39°23'38.422"N	80°52'36.755"W	4660.59	349.325	2.25	0.00	-2.25	
11249.00	89.890	336.160	6487.56	4791.74	4753.43	-938.24	1675126.79	14305329.91	39°23'39.706"N	80°52'37.219"W	4752.50	349.086	2.06	-0.10	-2.05	
11343.00	89.940	338.690	6487.86	4885.62	4840.22	-974.33	1675090.72	14305416.66	39°23'41.062"N	80°52'37.706"W	4845.14	348.894	0.20	-0.20	0.00	
11437.00	89.970	340.540	6487.94	4979.60	4928.33	-1007.07	1675058.00	14305504.74	39°23'42.848"N	80°52'38.164"W	4937.31	348.619	2.70	0.27	2.69	
11532.00	89.940	341.190	6488.01	5074.60	5018.08	-1038.21	1675026.87	14305594.45	39°23'44.634"N	80°52'38.580"W	5030.17	348.451	1.97	0.03	1.97	
11626.00	90.090	341.830	6487.99	5168.58	5107.23	-1068.02	1674997.07	14305683.56	39°23'46.420"N	80°52'38.975"W	5124.35	348.311	0.68	-0.03	0.68	
11721.00	90.090	342.250	6487.84	5263.54	5197.60	-1097.31	1674967.19	14305773.90	39°23'48.206"N	80°52'39.353"W	5217.70	348.189	0.70	0.16	0.68	
11815.00	90.310	345.240	6487.51	5357.36	5287.83	-1123.62	1674941.49	14305864.09	39°23'50.092"N	80°52'39.725"W	5312.17	348.079	0.44	0.00	0.44	
11910.00	90.520	347.310	6486.82	5451.84	5380.11	-1146.16	1674918.96	14305956.34	39°23'51.978"N	80°52'40.058"W	5405.89	348.004	3.19	0.23	3.18	
12004.00	90.980	342.620	6485.59	5545.49	5470.86	-1170.53	1674894.60	14306047.05	39°23'53.864"N	80°52'40.344"W	5500.84	347.974	2.19	0.22	2.18	
12099.00	90.310	339.090	6484.52	5640.47	5560.58	-1201.68	1674863.46	14306136.74	39°23'55.750"N	80°52'40.630"W	5594.68	347.923	5.01	0.49	4.99	
12193.00	90.370	338.560	6483.96	5734.43	5648.24	-1235.64	1674829.52	14306224.35	39°23'57.636"N	80°52'41.048"W	5688.95	347.805	3.78	-0.71	-3.72	
											5781.81	347.660	0.57	0.06	-0.56	



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Bounty Unit 2H
Area	Tyler County, WV	Wellbore	Bounty Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (215 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
12287.00	90.340	338.710	6483.38	5828.39	5735.77	-1269.88	1674795.29	14306311.86	39°23'47.277"N	80°52'41.913"W	5874.67	347.516	0.16	-0.03	0.16	
12381.00	90.340	337.410	6482.82	5922.31	5822.96	-1305.00	1674760.18	14306399.01	39°23'48.139"N	80°52'42.359"W	5967.41	347.368	1.38	0.00	-1.38	
12476.00	90.340	337.340	6482.26	6017.19	5910.65	-1341.55	1674723.65	14306486.66	39°23'49.006"N	80°52'42.823"W	6060.98	347.212	0.07	0.00	-0.07	
12570.00	90.340	337.660	6481.70	6111.07	5997.49	-1377.52	1674687.69	14306573.47	39°23'49.865"N	80°52'43.280"W	6153.66	347.065	0.34	0.00	0.34	
12664.00	90.490	338.430	6481.02	6204.99	6084.67	-1412.66	1674652.56	14306660.92	39°23'50.727"N	80°52'43.726"W	6246.51	346.929	0.83	0.16	0.82	
12758.00	90.460	338.240	6480.24	6298.93	6172.03	-1447.36	1674617.98	14306747.94	39°23'51.597"N	80°52'44.167"W	6339.46	346.802	0.20	-0.03	-0.20	
12853.00	90.370	340.670	6479.55	6393.91	6260.98	-1480.70	1674584.55	14306836.55	39°23'52.471"N	80°52'44.590"W	6433.69	346.694	2.56	-0.03	2.56	
12946.00	90.430	342.780	6478.90	6486.88	6349.28	-1509.86	1674555.40	14306925.12	39°23'53.344"N	80°52'44.960"W	6526.33	346.624	2.27	0.06	2.27	
13041.00	90.490	340.100	6478.14	6581.85	6439.33	-1540.09	1674525.18	14307015.13	39°23'54.234"N	80°52'45.343"W	6620.94	346.549	2.82	0.06	2.82	
13135.00	90.740	343.400	6477.13	6675.80	6528.58	-1569.53	1674495.76	14307104.35	39°23'55.117"N	80°52'45.717"W	6714.60	346.482	3.52	0.27	3.51	
13229.00	90.340	345.130	6476.25	6769.57	6619.05	-1595.02	1674470.28	14307194.78	39°23'56.011"N	80°52'46.040"W	6808.52	346.452	1.89	-0.43	1.84	
13324.00	90.550	344.550	6475.51	6864.27	6710.74	-1619.86	1674445.45	14307286.44	39°23'56.918"N	80°52'46.355"W	6903.48	346.429	0.65	0.22	-0.61	
13418.00	90.550	344.260	6474.61	6958.03	6801.28	-1645.13	1674420.19	14307376.93	39°23'57.813"N	80°52'46.675"W	6997.42	346.402	0.31	0.00	-0.31	
13513.00	90.580	342.700	6473.67	7052.88	6892.35	-1672.14	1674393.19	14307467.97	39°23'58.713"N	80°52'47.018"W	7092.29	346.363	1.64	0.03	-1.64	
13607.00	90.490	337.990	6472.79	7146.85	6980.84	-1703.75	1674366.90	14307556.43	39°23'59.588"N	80°52'47.419"W	7185.75	346.285	5.01	-0.10	-5.01	
13701.00	90.370	335.160	6472.09	7240.63	7067.09	-1741.11	1674342.25	14307642.63	39°24'00.441"N	80°52'47.893"W	7278.40	346.160	3.01	-0.13	-3.01	
13796.00	90.490	334.410	6471.37	7335.19	7153.03	-1781.58	1674283.79	14307728.55	39°24'01.291"N	80°52'48.407"W	7371.56	346.014	0.80	0.13	-0.79	
13891.00	90.400	335.620	6470.63	7429.77	7239.14	-1821.71	1674243.68	14307814.62	39°24'02.143"N	80°52'48.917"W	7464.83	345.875	1.28	-0.09	1.27	
13986.00	90.400	336.780	6469.97	7524.52	7326.05	-1860.04	1674205.36	14307901.50	39°24'03.002"N	80°52'49.404"W	7558.49	345.754	1.22	0.00	1.22	
14080.00	90.460	335.550	6469.27	7618.27	7412.03	-1898.02	1674167.40	14307987.44	39°24'03.853"N	80°52'49.886"W	7651.19	345.637	1.31	0.06	-1.31	
14174.00	90.400	341.670	6468.56	7712.18	7499.51	-1932.29	1674133.14	14308074.89	39°24'04.718"N	80°52'50.321"W	7744.45	345.552	6.51	-0.06	6.51	
14268.00	90.430	345.010	6467.88	7806.04	7589.55	-1959.24	1674106.21	14308164.89	39°24'05.513"N	80°52'50.866"W	7838.36	345.525	3.55	0.03	3.55	
14363.00	90.550	343.880	6467.07	7900.79	7681.07	-1984.71	1674080.75	14308256.37	39°24'06.513"N	80°52'51.346"W	7933.34	345.512	1.20	0.13	-1.19	
14458.00	90.860	341.400	6466.90	7995.69	7771.73	-2013.05	1674052.42	14308346.99	39°24'07.409"N	80°52'51.711"W	8028.21	345.478	2.63	0.33	-2.61	
14552.00	90.310	342.870	6464.94	8089.64	7861.19	-2041.88	1674023.59	14308436.42	39°24'08.294"N	80°52'51.711"W	8122.04	345.440	1.67	-0.59	1.56	
14646.00	89.970	342.390	6464.71	8183.56	7950.90	-2069.95	1673995.54	14308526.10	39°24'09.181"N	80°52'52.067"W	8215.93	345.407	0.63	-0.36	-0.51	
14741.00	90.000	341.600	6464.73	8278.52	8041.25	-2098.31	1673966.19	14308616.41	39°24'10.074"N	80°52'52.440"W	8310.76	345.368	0.83	0.03	-0.83	
14835.00	89.970	339.660	6464.76	8372.51	8129.92	-2130.49	1673935.03	14308705.05	39°24'10.951"N	80°52'52.836"W	8404.44	345.316	2.06	-0.03	-2.06	
14929.00	90.000	341.520	6464.78	8466.51	8218.58	-2161.72	1673903.80	14308793.66	39°24'11.828"N	80°52'53.232"W	8498.12	345.263	1.98	0.03	1.98	
15023.00	90.340	342.070	6464.50	8560.48	8307.87	-2191.09	1673874.45	14308882.92	39°24'12.710"N	80°52'53.605"W	8591.95	345.225	0.69	0.36	0.59	



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Bounty Unit 2H
Area	Tyler County, WV	Wellbore	Bounty Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (215 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
15119.00	90.340	342.680	6463.93	8656.41	8399.36	-2220.16	1673845.39	14308974.38	39°24'13.615"N	80°52'53.974"W	8887.83	345.194	0.64	0.00	0.64	
15214.00	90.490	343.070	6463.25	8751.32	8490.15	-2248.13	1673817.43	14309065.13	39°24'14.513"N	80°52'54.328"W	8782.75	345.169	0.44	0.16	0.41	
15309.00	90.830	342.740	6462.15	8846.21	8580.94	-2276.05	1673789.52	14309155.89	39°24'15.411"N	80°52'54.683"W	8877.67	345.145	0.50	0.36	-0.35	
15404.00	91.260	339.790	6460.42	8941.17	8670.88	-2306.56	1673759.02	14309245.79	39°24'16.300"N	80°52'55.070"W	8972.43	345.104	3.14	0.45	-3.11	
15499.00	90.580	338.490	6458.89	9036.14	8759.64	-2340.38	1673725.22	14309334.51	39°24'17.178"N	80°52'55.499"W	9066.90	345.041	1.54	-0.72	-1.37	
15593.00	90.060	339.020	6458.37	9130.10	8847.25	-2374.44	1673691.17	14309422.09	39°24'18.044"N	80°52'55.932"W	9160.34	344.977	0.79	-0.55	0.56	
15687.00	90.120	336.180	6458.22	9223.99	8934.15	-2410.26	1673655.37	14309508.95	39°24'18.903"N	80°52'56.386"W	9253.56	344.902	3.02	0.06	-3.02	
15782.00	89.720	336.740	6458.35	9318.77	9021.25	-2448.20	1673617.44	14309596.01	39°24'19.764"N	80°52'56.868"W	9347.54	344.817	0.72	-0.42	0.59	
15876.00	90.180	339.650	6458.43	9412.70	9108.51	-2483.11	1673582.54	14309683.24	39°24'20.627"N	80°52'57.312"W	9440.91	344.751	3.13	0.49	3.10	
15971.00	90.220	338.890	6458.10	9507.68	9197.36	-2516.74	1673548.93	14309772.05	39°24'21.506"N	80°52'57.739"W	9535.48	344.696	0.80	0.04	-0.80	
16065.00	90.220	339.710	6457.74	9601.66	9285.29	-2549.97	1673515.72	14309859.95	39°24'22.375"N	80°52'58.160"W	9629.07	344.644	0.87	0.00	0.87	
16159.00	90.150	337.930	6457.44	9695.62	9372.94	-2583.93	1673481.77	14309947.56	39°24'23.242"N	80°52'58.592"W	9722.58	344.588	1.90	-0.07	-1.89	
16254.00	90.180	339.130	6457.16	9790.58	9461.34	-2618.70	1673447.01	14310035.93	39°24'24.116"N	80°52'59.033"W	9817.05	344.529	1.26	0.03	1.26	
16348.00	90.310	339.840	6456.76	9884.56	9549.38	-2651.64	1673414.08	14310123.93	39°24'24.987"N	80°52'59.451"W	9910.69	344.481	0.77	0.14	0.76	
16442.00	90.150	341.580	6456.39	9978.56	9638.10	-2682.69	1673383.04	14310212.62	39°24'25.864"N	80°52'59.845"W	10004.49	344.446	1.86	-0.17	1.85	
16536.00	90.120	343.980	6456.16	10072.46	9727.88	-2710.52	1673355.23	14310302.36	39°24'26.752"N	80°53'00.198"W	10098.44	344.430	2.55	-0.03	2.55	
16630.00	90.280	344.030	6455.84	10166.27	9818.24	-2736.42	1673329.34	14310392.68	39°24'27.645"N	80°53'00.527"W	10192.44	344.426	0.18	0.17	0.05	
16725.00	90.220	342.790	6455.42	10261.13	9909.28	-2763.54	1673302.22	14310483.69	39°24'28.545"N	80°53'00.871"W	10287.42	344.417	1.31	-0.06	-1.31	
16819.00	90.220	343.030	6455.06	10355.03	9999.13	-2791.17	1673274.61	14310573.50	39°24'29.434"N	80°53'01.221"W	10381.39	344.403	0.26	0.00	0.26	
16913.00	90.280	342.470	6454.65	10448.95	10088.90	-2819.04	1673246.75	14310663.24	39°24'30.321"N	80°53'01.575"W	10475.35	344.389	0.60	0.06	-0.60	
17007.00	90.250	341.580	6454.22	10542.90	10178.31	-2848.05	1673217.75	14310752.61	39°24'31.205"N	80°53'01.943"W	10569.26	344.368	0.95	-0.03	-0.95	
17101.00	90.280	339.950	6453.78	10636.90	10267.06	-2879.01	1673186.80	14310841.33	39°24'32.083"N	80°53'02.336"W	10663.08	344.336	1.73	0.03	-1.73	
17195.00	90.490	336.610	6453.15	10730.82	10354.37	-2913.80	1673152.03	14310928.60	39°24'32.946"N	80°53'02.778"W	10756.54	344.283	3.56	0.22	-3.55	
17290.00	90.280	335.620	6452.51	10825.56	10441.23	-2952.26	1673113.58	14311015.43	39°24'33.805"N	80°53'03.267"W	10850.58	344.212	1.07	-0.22	-1.04	
17384.00	90.220	335.200	6452.10	10919.22	10526.70	-2991.38	1673074.48	14311100.87	39°24'34.651"N	80°53'03.763"W	10943.48	344.136	0.45	-0.06	-0.45	
17478.00	90.220	332.940	6451.74	11012.65	10611.24	-3032.48	1673033.40	14311185.37	39°24'35.487"N	80°53'04.288"W	11036.04	344.051	2.40	0.00	-2.40	
17572.00	89.940	338.890	6451.61	11106.33	10697.01	-3070.82	1672995.07	14311271.11	39°24'36.356"N	80°53'04.773"W	11129.06	343.983	6.34	-0.30	6.33	
17666.00	90.280	340.590	6451.43	11200.32	10785.19	-3103.37	1672962.53	14311359.25	39°24'37.207"N	80°53'05.186"W	11222.80	343.947	1.84	0.36	1.81	
17760.00	90.180	342.060	6451.05	11294.30	10874.24	-3133.47	1672932.45	14311448.27	39°24'38.087"N	80°53'05.568"W	11316.70	343.925	1.57	-0.11	1.56	
17854.00	90.150	342.680	6450.78	11388.24	10963.83	-3161.94	1672903.99	14311537.81	39°24'38.973"N	80°53'05.929"W	11410.67	343.913	0.66	-0.03	0.66	



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Bounty Unit 2H
Area	Tyler County, WV	Wellbore	Bounty Unit 2H AWB
Field	Tyler		
Facility	Dawson Pad		

WELLPATH DATA (215 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Turn Rate [°/100ft]	Comments
17948.00	90.180	342.340	6450.51	11482.17	11053.48	-3190.19	1672875.75	14311627.43	39°24'39.860"N	80°53'06.288"W	0.36	-0.36
18043.00	90.150	341.610	6450.24	11577.13	11143.82	-3219.58	1672846.37	14311717.73	39°24'40.753"N	80°53'06.661"W	0.77	-0.77
18137.00	90.120	341.630	6450.01	11671.11	11233.02	-3249.22	1672816.74	14311806.90	39°24'41.635"N	80°53'07.037"W	0.04	0.02
18148.00	90.150	341.200	6449.99	11682.11	11243.45	-3252.73	1672813.24	14311817.32	39°24'41.738"N	80°53'07.082"W	3.92	-3.91
18171.00	90.150	341.200	6449.93	11705.10	11265.22	-3260.14	1672805.83	14311839.09	39°24'41.953"N	80°53'07.176"W	0.00	0.00
											0.00	Project MD @ TD: 18171' MD / 6450'TVD

HOLE & CASING SECTIONS - Ref Wellbore: Bounty Unit 2H AWB Ref Wellpath: Bounty Unit 2H AWP Proj: 18171'												
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]	Start Rate [°/100ft]	End Rate [°/100ft]	Comments
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
17.5in Open Hole	105.00	585.90	480.90	105.00	585.90	-0.01	-0.85	0.01	-0.85	0.00	0.13	0.13
13.375in Casing Surface	25.00	585.90	560.90	25.00	585.90	0.00	-0.85	0.00	-0.85	0.00	0.13	0.13
12.25in Open Hole	585.90	2569.80	1983.90	585.90	2567.89	-0.85	8.81	0.13	8.81	0.00	0.00	41.22
9.625in Casing Intermediate	25.00	2569.80	2544.80	25.00	2567.89	0.00	8.81	0.00	8.81	0.00	0.00	41.22

TARGETS						
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Shape
Bounty Unit 2H POE - Rev-2	6480.00	549.84	573.57	1676638.00	14301128.00	point
Bounty Unit 2H BHL - Rev-3	6502.00	11349.25	-3288.64	1672777.34	14311923.08	point
Bounty Unit 2H LP - Rev-1	6502.00	684.73	525.32	1676589.77	14301262.84	point



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WW	Well	Bounty Unit 2H
Field	Tyler	Wellbore	Bounty Unit 2H AWB
Facility	Dawson Pad		

WELLPATH COMPOSITION - Ref Wellbore: Bounty Unit 2H AWB Ref Wellpath: Bounty Unit 2H AWP Proj: 18171'			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
25.00	547.00	Gyrodata standard - Drop gyro or Multi-shot	01 - Gyrodata MS Gyro <17-1/2">(100'-547')
547.00	721.00	Gyrodata standard - Drop gyro or Multi-shot	02 - Gyrodata MS Gyro <12-1/4">(647')(631'-721')
721.00	2514.00	ISCVSA MWD, Rev. 4 (Standard)	03 - Directional ONE MWD <12-1/4">(721')(775'-2514')
2514.00	6329.00	ISCVSA MWD, Rev. 4 (Standard)	04 - Directional ONE MWD <8-3/4">(2514')(2647'-6329')
6329.00	18148.00	BHI AutoTrak Curve (Short)	05 - BH AT Curve <8-1/2">(6329')(6402'-18148')
18148.00	18171.00	Blind Drilling (std)	Projection to bit
			Bounty Unit 2H AWB
			Bounty Unit 2H AWB
			Bounty Unit 2H AWB
			Bounty Unit 2H AWB
			Bounty Unit 2H AWB
			Bounty Unit 2H AWB



Actual Wellpath Report

Bounty Unit 2H AWP Proj: 18171'

Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Bounty Unit 2H
Field	Tyler	Wellbore	Bounty Unit 2H AWB
Facility	Dawson Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02412-0000 BH Job #: 8957398 Rig: Patterson 342 Duration: 01/09/18 - 01/10/18 Gyrodatta MS Gyro <17-1/2">(100'-547') Gyrodatta MS Gyro <12-1/4">(547')(631'-721') Directional ONE MWD <12-1/4">(721')(775'-2514') Directional ONE MWD <8-3/4">(2514')(2647'-6329') Sycamore: 6230'MD / 6131'TVD BH AT Curve <8-1/2"> (6329')(6402'-18148') Middlesex: 6444'MD / 6300'TVD Burket: 6615'MD / 6410'TVD Tully: 6691'MD / 6446'TVD POE Marcellus: 6781'MD / 6477'TVD Project MD @ TD: 18171'MD / 6450'TVD</p>