

ANTERO RESOURCES CORPORATION

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

Slot: Slot #03
 Well: Fender Unit 3H
 Wellbore: Fender Unit 3H PWB

For reference weights in Fender Unit 3H PWB Rev-B.0	Grid System: NAD83 UTM Zone 17 North, US Feet
True vertical depths are referenced to 987.317 (RGS)	North Reference: Old well
Reference weights (measured depths) are referenced to H&P 317 (RGS)	Scale: True distance
H&P 317 (RGS) to Mean Sea Level: 1041.6 feet	Coordinates are in feet referenced to BGL
Mean Sea Level to Ground level (At Slot Slot #03) : -1014.6 feet	Display as in feet
Other wellbore MDs are referenced to each well's offset MD datum	Created by: dslsdl on 2020/05/05 Database: WA_MPL_ExternalUS_Data

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Hogue Pad	1639740.410	1433504.260	39°28'17.1407N	80°50'53.3210W
Slot	21.85	20.37	29°28'17.1407N	80°50'53.3210W
Slot #03	21.85	20.37	29°28'17.1407N	80°50'53.3210W
H&P 317 (RGS) to Ground level (At Slot Slot #03)			25.01	
Mean Sea Level to Ground level (At Slot Slot #03)			-1014.61	
H&P 317 (RGS) to Mean Sea Level			1041.61	

Well Data

Slot	Well	Wellbore	Wellbore
Slot #03	Fender Unit 3H	Fender Unit 3H AUB	Fender Unit 3H AUB Rev-B.0
Slot #03	Fender Unit 3H	Fender Unit 3H PWB	Fender Unit 3H PWB Rev-B.0

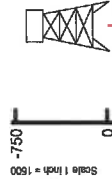
Gyrodatta MS Gyro <13-1/2°>(100-531°) : 0.48° Inc, 100.00ft MD, 100.00ft TVD, 0.16ft VS

APS EM <9-7/8°>(631)(690-2618°) : 0.44° Inc, 690.00ft MD, 689.98ft TVD, 3.23ft VS

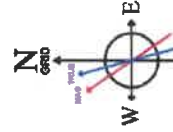
APS EM <6-3/4°>(2618)(2801-5266°) : 14.77° Inc, 2801.00ft MD, 2773.50ft TVD, 45.01ft VS

AutoTrak X-Gen <6-3/4°>(6268)(5305-16743°) : 18.75° Inc, 5305.00ft MD, 5070.32ft TVD, 371.72ft VS

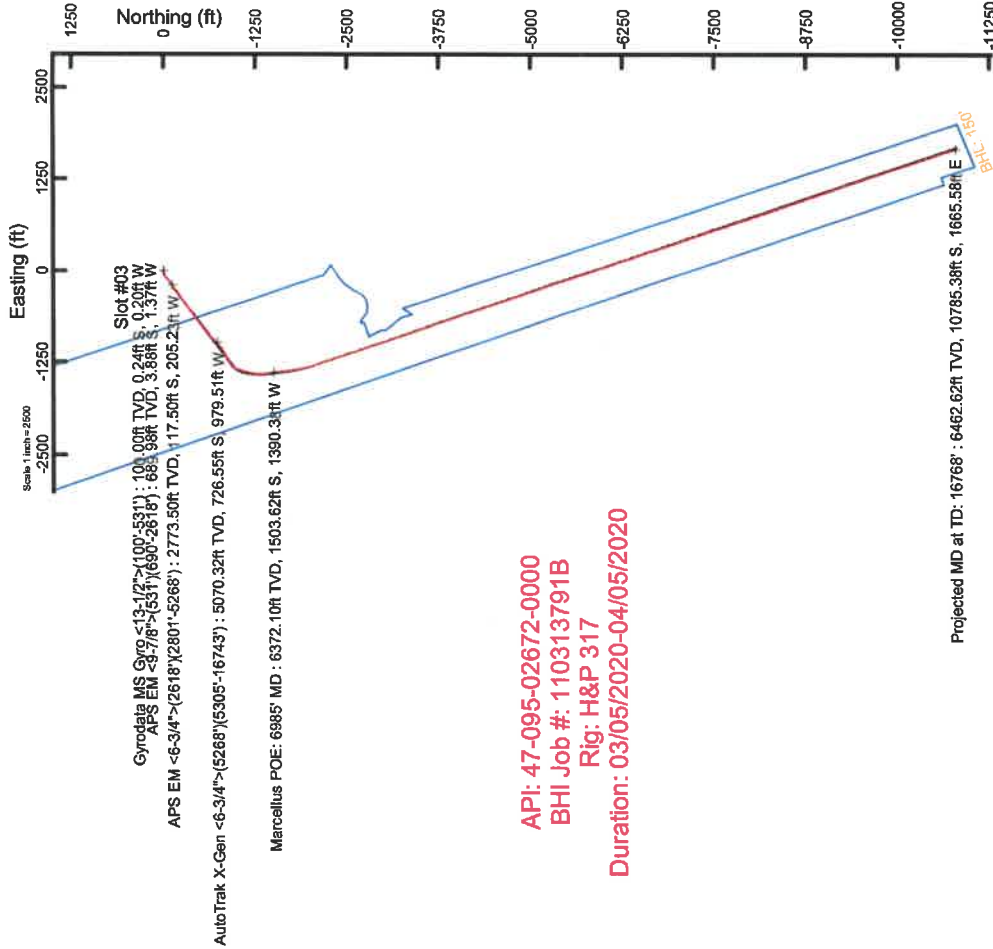
Marcellus POE: 6985° MD : 73.38° Inc, 6985.00ft MD, 6372.10ft TVD, 974.70ft VS



Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)		Local E (ft)	Local N (ft)	DLS (ft/100ft)	VS (ft)
				Local E (ft)	Local N (ft)				
Tie On	2918.00	14.540	238.670	2598.45	-403.60	-165.58	35.19	1.43	38.19
Phi. To Bottom	2988.00	14.540	238.670	2684.21	-102.74	-180.59	38.99	0.00	38.99
Drill Out Csg	2788.00	14.540	238.670	2781.01	-115.80	-202.03	44.43	0.00	44.43
Held Tangent	3153.84	24.733	232.811	3088.15	-182.24	-288.95	76.70	3.00	76.70
Curve KOP	6182.71	24.733	232.811	5855.52	-463.34	-1313.23	0.00	0.00	478.73
POE	6954.66	72.539	173.900	8373.00	-1467.13	-1606.19	8.00	935.07	1145.40
Landing PL	7172.62	90.000	173.900	8406.00	-1650.43	-1380.00	8.00	1145.40	1145.40
On Azimuth	7587.01	90.000	161.177	8406.00	-2003.87	-1232.10	3.00	1936.71	1936.71
BHL	18604.00	90.000	161.177	8406.00	-10806.88	-1688.14	0.00	10773.69	10773.69



User specified (+DGM) Dip: 66.47° Field: 61738 nT
 Magnetic North is 7.60 degrees West of True North (at 3/23/2020)
 Grid North is 1.18 degrees West of True North
 To correct azimuth from True to Grid subtract 0.68 degrees
 To correct azimuth from Magnetic to Grid subtract 7.66 degrees

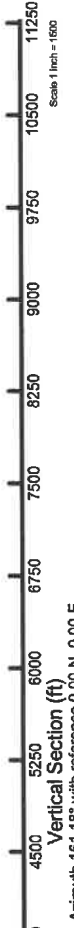


API: 47-095-02672-0000
 BHI Job #: 110313791B
 Rig: H&P 317
 Duration: 03/05/2020-04/05/2020



04/02/2021

Projected MD at TD: 16768° : 89.62° Inc, 16768.00ft MD, 6462.62ft TVD, 10746.07ft VS





Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Well
Field	Tyler	Fender Unit 3H
Facility	Hogue Pad	API: 47-095-02672-0000
Slot	Slot #03	Fender Unit 3H AWB

REPORT SETUP INFORMATION		
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System
North Reference	Grid	User
Scale	0.999601	Report Generated
Convergence at slot	0.06° East	Database
		WA_MPL_EasternUS_Defn

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	21.88	20.37	1669160.77	14333626.13	39°28'17.4140"N	80°53'53.3210"W
Facility Reference Pt			1669140.41	14333604.26	39°28'17.1980"N	80°53'53.5810"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM		
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #03)
MD Reference Pt	H&P 317 (RKB)	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth
		25.50ft
		1040.00ft
		25.50ft
		N 0.00, E 0.00 ft
		161.18°

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 2 of 10



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #03
Well	Fender Unit 3H
API	API: 47-095-02672-0000
Wellbore	Fender Unit 3H AWB

WELLPATH DATA (190 stations) f = interpolated, i = 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	220.180	0.00	0.00	0.00	0.00	1669160.77	14333626.13	39°28'17.4140"N	80°53'53.3210"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	220.180	25.50	0.00	0.00	0.00	1669160.77	14333626.13	39°28'17.4140"N	80°53'53.3210"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.480	220.180	100.00	0.16	-0.24	-0.20	1669160.57	14333625.89	39°28'17.4116"N	80°53'53.3236"W	0.31	220.180	0.64	0.64	0.00	Gyrodata MS Gyro <13-1/2>-(100'-531')
150.00	0.480	216.360	150.00	0.39	-0.57	-0.46	1669160.31	14333625.56	39°28'17.4084"N	80°53'53.3269"W	0.73	219.086	0.06	0.00	-7.64	
200.00	0.480	212.560	200.00	0.64	-0.91	-0.70	1669160.07	14333625.22	39°28'17.4050"N	80°53'53.3299"W	1.15	217.401	0.06	0.00	-7.60	
250.00	0.440	215.150	249.99	0.88	-1.25	-0.92	1669159.85	14333624.88	39°28'17.4017"N	80°53'53.3328"W	1.55	216.468	0.09	-0.08	5.18	
300.00	0.420	210.450	299.99	1.11	-1.56	-1.12	1669159.64	14333624.57	39°28'17.3986"N	80°53'53.3354"W	1.92	215.764	0.08	-0.04	-9.40	
350.00	0.470	205.040	349.99	1.38	-1.90	-1.30	1669159.46	14333624.22	39°28'17.3952"N	80°53'53.3377"W	2.31	214.396	0.13	0.10	-10.82	
400.00	0.590	202.150	399.99	1.72	-2.33	-1.49	1669159.28	14333623.80	39°28'17.3910"N	80°53'53.3400"W	2.76	212.572	0.25	0.24	-5.78	
450.00	0.500	182.160	449.99	2.12	-2.79	-1.59	1669159.17	14333623.34	39°28'17.3865"N	80°53'53.3414"W	3.21	209.767	0.42	-0.18	-39.98	
500.00	0.690	169.090	499.98	2.62	-3.30	-1.54	1669159.22	14333622.83	39°28'17.3814"N	80°53'53.3407"W	3.64	205.084	0.46	0.38	-26.16	
531.00	0.610	173.250	530.98	2.97	-3.65	-1.49	1669159.28	14333622.48	39°28'17.3780"N	80°53'53.3400"W	3.94	202.220	0.30	-0.28	13.45	
690.00	0.440	2.070	639.98	3.23	-3.88	-1.37	1669159.40	14333622.25	39°28'17.3757"N	80°53'53.3385"W	4.11	199.437	0.66	-0.11	-107.66	APS EM <9-7/8>-(531')(690'-2618')
778.00	1.930	337.460	777.96	1.43	-2.17	-1.92	1669158.84	14333623.96	39°28'17.3826"N	80°53'53.3456"W	2.90	221.558	1.75	1.69	-27.97	
869.00	2.600	326.220	868.89	-2.09	0.96	-3.66	1669157.11	14333627.09	39°28'17.4235"N	80°53'53.3676"W	3.78	284.717	0.88	0.74	-12.35	
961.00	3.190	324.990	960.77	-6.56	4.79	-6.29	1669154.48	14333630.92	39°28'17.4614"N	80°53'53.4011"W	7.91	307.313	0.64	0.64	-1.34	
1056.00	2.290	311.890	1055.66	-10.76	8.22	-9.22	1669151.55	14333634.35	39°28'17.4954"N	80°53'53.4384"W	12.35	311.742	1.15	-0.95	-13.79	
1151.00	0.560	307.290	1150.63	-12.80	9.77	-11.00	1669149.77	14333635.90	39°28'17.5107"N	80°53'53.4611"W	14.71	311.621	1.82	-1.82	-4.84	
1246.00	0.960	102.990	1245.62	-12.76	9.88	-10.59	1669150.18	14333636.00	39°28'17.5117"N	80°53'53.4559"W	14.48	312.991	1.57	0.42	163.89	
1341.00	0.850	118.570	1340.61	-11.83	9.36	-9.20	1669151.57	14333635.48	39°28'17.5066"N	80°53'53.4382"W	13.12	315.496	0.28	-0.12	16.40	
1436.00	0.860	169.550	1435.60	-10.60	8.32	-8.45	1669152.32	14333634.45	39°28'17.4963"N	80°53'53.4286"W	11.86	314.558	0.77	0.01	53.66	
1530.00	1.040	184.720	1529.59	-9.12	6.78	-8.39	1669152.38	14333632.90	39°28'17.4811"N	80°53'53.4279"W	10.79	308.921	0.33	0.19	16.14	
1625.00	1.740	186.030	1624.56	-7.02	4.48	-8.62	1669152.16	14333630.61	39°28'17.4584"N	80°53'53.4308"W	9.71	297.495	0.74	0.74	1.38	
1720.00	3.190	236.020	1719.48	-5.02	1.57	-10.96	1669149.81	14333627.70	39°28'17.4297"N	80°53'53.4607"W	11.07	278.162	2.59	1.53	52.62	
1815.00	4.930	240.020	1814.24	-3.54	-1.95	-16.69	1669144.09	14333624.18	39°28'17.3950"N	80°53'53.5338"W	16.80	263.350	1.85	1.83	4.21	
1909.00	7.090	249.310	1907.72	-2.57	-6.01	-25.61	1669135.16	14333620.12	39°28'17.3548"N	80°53'53.6477"W	26.31	256.787	2.51	2.30	9.85	
2004.00	11.660	249.250	2001.43	-2.06	-11.49	-40.08	1669120.70	14333614.64	39°28'17.3009"N	80°53'53.8323"W	41.70	254.006	4.81	4.81	-0.06	
2099.00	15.760	247.030	2093.70	-0.80	-19.93	-60.95	1669099.84	14333608.21	39°28'17.2177"N	80°53'54.0985"W	64.12	251.893	4.35	4.32	-2.34	
2194.00	14.700	241.140	2185.37	2.24	-30.78	-83.39	1669077.41	14333595.36	39°28'17.1107"N	80°53'54.3847"W	88.89	249.738	1.97	-1.12	-6.20	
2289.00	13.290	231.070	2277.56	8.09	-43.46	-102.44	1669058.37	14333582.88	39°28'16.9856"N	80°53'54.6279"W	111.28	247.009	2.96	-1.48	-10.60	

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 3 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 3H
Field	Tyler	API	API: 47-095-02672-0000
Facility	Hogue Pad	Wellbore	Fender Unit 3H AWB
Slot	Slot #03		

WELLPATH DATA (190 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 °/100ft	Comments
2384.00	13.050	226.580	2370.06	16.31	-57.70	-118.73	1669042.09	14333568.45	39°28'16.8451"N	80°53'54.8358"W	132.00	244.081	1.11	-0.25	-4.73	
2479.00	15.340	230.950	2462.16	25.12	-72.99	-136.28	1669024.54	14333553.17	39°28'16.6941"N	80°53'55.0598"W	154.59	241.827	2.66	2.41	4.60	
2573.00	14.830	236.400	2552.92	32.49	-87.48	-155.95	1669004.88	14333538.68	39°28'16.5511"N	80°53'55.3109"W	178.81	240.710	1.60	-0.54	5.80	
2618.00	14.540	238.670	2596.45	35.19	-93.60	-165.58	1668995.26	14333532.56	39°28'16.4907"N	80°53'55.4337"W	190.20	240.519	1.43	-0.64	5.04	
2801.00	14.770	239.180	2773.50	45.01	-117.50	-205.23	1668995.62	14333509.67	39°28'16.2950"N	80°53'55.9397"W	236.49	240.208	0.14	0.13	0.29	APS EM <6-3/4" > 2618' (2801'-5268')
2896.00	17.900	231.840	2864.66	52.37	-132.73	-227.12	1668933.74	14333493.45	39°28'16.1047"N	80°53'56.2190"W	263.06	239.697	3.94	3.29	-7.73	
2990.00	19.930	231.170	2953.58	62.63	-151.70	-250.96	1668909.91	14333474.49	39°28'15.9174"N	80°53'56.5233"W	293.25	238.847	2.17	2.16	-0.71	
3090.00	23.190	230.470	3046.57	75.43	-174.93	-279.43	1668881.45	14333451.27	39°28'15.6882"N	80°53'56.8867"W	329.67	237.953	3.27	3.26	-0.70	
3185.00	24.190	232.030	3133.57	88.43	-198.81	-309.20	1668851.69	14333427.40	39°28'15.4525"N	80°53'57.2666"W	367.60	237.260	1.24	1.05	1.64	
3280.00	23.610	234.970	3220.43	100.13	-221.71	-340.12	1668820.78	14333404.51	39°28'15.2266"N	80°53'57.6613"W	406.00	236.902	1.39	-0.61	3.09	
3374.00	24.490	236.760	3306.27	110.24	-243.19	-371.84	1668789.08	14333383.03	39°28'15.0146"N	80°53'58.0659"W	444.30	236.814	1.22	0.94	1.90	
3469.00	25.530	232.210	3392.37	121.80	-266.53	-404.49	1668756.44	14333359.70	39°28'14.7842"N	80°53'58.4826"W	484.40	236.618	2.30	1.09	-4.79	
3563.00	25.510	235.260	3477.20	133.93	-290.48	-437.13	1668723.81	14333335.77	39°28'14.5479"N	80°53'58.8992"W	524.84	236.395	1.40	-0.02	3.24	
3658.00	25.100	234.650	3563.08	145.28	-313.79	-470.37	1668690.58	14333312.46	39°28'14.3179"N	80°53'59.3234"W	565.44	236.292	0.51	-0.43	-0.64	
3753.00	25.140	234.920	3649.10	156.66	-337.05	-503.32	1668657.65	14333289.21	39°28'14.0884"N	80°53'59.7439"W	605.75	236.192	0.13	0.04	0.28	
3848.00	25.020	233.810	3735.14	168.31	-360.51	-536.05	1668624.93	14333265.76	39°28'13.8569"N	80°54'0.1616"W	646.00	236.078	0.51	-0.13	-1.17	
3942.00	25.860	236.380	3820.03	179.48	-383.60	-569.16	1668591.83	14333242.68	39°28'13.6290"N	80°54'0.5841"W	686.36	236.021	1.48	0.89	2.73	
4037.00	26.100	234.880	3905.43	190.64	-407.09	-603.51	1668557.50	14333219.20	39°28'13.3972"N	80°54'1.0224"W	727.98	235.999	0.74	0.25	-1.58	
4131.00	26.280	233.650	3989.78	202.71	-431.32	-637.19	1668523.84	14333194.98	39°28'13.1581"N	80°54'1.4522"W	769.44	235.905	0.60	0.19	-1.30	
4226.00	25.170	230.940	4075.36	216.03	-456.51	-669.82	1668491.22	14333169.80	39°28'12.9095"N	80°54'1.8688"W	810.59	235.724	1.71	-1.17	-2.86	
4321.00	25.210	232.310	4161.33	229.56	-481.61	-701.51	1668459.54	14333144.71	39°28'12.6618"N	80°54'2.2731"W	850.92	235.529	0.62	0.04	1.44	
4415.00	25.280	231.750	4246.35	242.71	-506.28	-733.12	1668427.94	14333120.05	39°28'12.4183"N	80°54'2.6765"W	890.94	235.372	0.26	0.07	-0.60	
4510.00	24.900	233.200	4332.39	255.63	-530.82	-765.06	1668396.01	14333095.52	39°28'12.1762"N	80°54'3.0841"W	931.17	235.246	0.76	-0.40	1.53	
4605.00	25.810	232.580	4418.24	268.40	-555.36	-797.50	1668363.59	14333070.99	39°28'11.9339"N	80°54'3.4981"W	971.82	235.147	1.00	0.96	-0.65	
4700.00	27.070	235.630	4503.30	280.79	-580.14	-831.77	1668329.33	14333046.22	39°28'11.6894"N	80°54'3.9355"W	1014.10	235.105	1.95	1.33	3.21	
4795.00	24.590	231.110	4588.81	293.38	-604.76	-865.01	1668296.11	14333021.62	39°28'11.4465"N	80°54'4.3596"W	1055.45	235.041	3.33	-2.61	-4.76	
4890.00	20.310	224.200	4676.61	307.65	-629.00	-891.90	1668269.22	14332997.38	39°28'11.2071"N	80°54'4.7029"W	1091.39	234.807	5.29	-4.51	-7.27	
4985.00	17.850	219.970	4766.39	322.67	-651.98	-912.75	1668248.38	14332974.41	39°28'10.9802"N	80°54'4.9691"W	1121.70	234.462	2.97	-2.59	-4.45	
5079.00	18.130	221.370	4855.79	337.41	-674.00	-931.68	1668229.47	14332962.40	39°28'10.7628"N	80°54'5.2107"W	1149.91	234.117	0.55	0.30	1.43	
5174.00	18.880	224.230	4945.88	351.73	-696.11	-952.17	1668208.98	14332930.30	39°28'10.5446"N	80°54'5.4723"W	1179.48	233.830	1.24	0.79	3.01	

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 4 of 10



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #03
Well	Fender Unit 3H
API	API: 47-095-02672-0000
Wellbore	Fender Unit 3H AWB

WELLPATH DATA (190 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 (%/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
5265.00	17.530	221.100	5035.16	365.73	-717.70	-972.11	1668189.05	14332908.71	39°28'10.3313"N	80°54'5.7269"W	1208.34	233.562	1.73	-1.38	-3.33	
5305.00	18.750	218.770	5070.32	371.72	-726.55	-979.51	1668181.65	14332899.87	39°28'10.2440"N	80°54'5.8213"W	1219.55	233.434	3.72	3.16	-6.30	AutoTrak X-Gen <6-3/4"> [5268]\5305\16743'
5402.00	22.080	230.620	5161.25	386.49	-750.29	-1003.38	1668157.79	14332876.14	39°28'10.0096"N	80°54'6.1260"W	1252.88	233.212	5.46	3.43	12.22	
5496.00	26.490	235.540	5246.92	398.35	-773.37	-1034.34	1668126.85	14332853.06	39°28'9.7818"N	80°54'6.5211"W	1291.49	233.214	5.16	4.69	5.23	
5591.00	27.690	240.290	5331.51	408.24	-796.31	-1070.98	1668090.21	14332830.14	39°28'9.5555"N	80°54'6.9887"W	1334.68	233.368	2.60	1.26	5.00	
5686.00	27.950	241.570	5415.53	416.12	-817.84	-1109.73	1668051.48	14332808.61	39°28'9.3431"N	80°54'7.4831"W	1378.54	233.611	0.69	0.27	1.35	
5781.00	28.060	242.490	5499.41	423.22	-838.76	-1149.13	1668012.10	14332787.70	39°28'9.1367"N	80°54'7.9857"W	1422.68	233.874	0.47	0.12	0.97	
5875.00	27.110	242.490	5582.72	429.79	-858.87	-1187.73	1667973.51	14332767.60	39°28'8.9384"N	80°54'8.4768"W	1465.73	234.129	1.01	-1.01	0.00	
5970.00	26.140	241.210	5667.65	436.69	-878.95	-1225.27	1667935.99	14332747.53	39°28'8.7404"N	80°54'8.9572"W	1507.93	234.346	1.19	-1.02	-1.35	
6065.00	27.440	236.290	5752.46	445.94	-901.18	-1261.83	1667899.45	14332725.31	39°28'8.5211"N	80°54'9.4237"W	1550.59	234.466	2.70	1.37	-5.18	
6160.00	28.700	229.080	5836.31	460.15	-928.28	-1297.28	1667864.00	14332698.22	39°28'8.2536"N	80°54'9.8761"W	1595.19	234.414	3.81	1.33	-7.59	
6254.00	31.850	212.310	5917.62	484.25	-964.09	-1327.66	1667833.64	14332662.42	39°28'7.9399"N	80°54'10.2639"W	1640.78	234.014	9.57	3.35	-17.84	
6349.00	35.590	200.840	5996.71	521.32	-1011.18	-1350.92	1667791.82	14332615.35	39°28'7.4348"N	80°54'10.7988"W	1687.45	233.185	7.76	3.94	-12.07	
6444.00	40.360	196.480	6071.59	567.74	-1066.55	-1369.50	1667751.11	14332560.00	39°28'6.8877"N	80°54'10.7988"W	1735.82	232.089	5.76	5.02	-4.59	
6538.00	47.210	193.510	6139.41	621.79	-1129.36	-1386.21	1667715.11	14332497.22	39°28'6.2672"N	80°54'11.0128"W	1788.02	230.830	7.61	7.29	-3.16	
6633.00	52.140	190.000	6200.88	684.15	-1200.24	-1400.88	1667760.45	14332426.37	39°28'5.5668"N	80°54'11.2008"W	1844.73	229.411	5.90	5.19	-3.69	
6679.00†	53.745	186.688	6228.61	716.81	-1236.55	-1406.19	1667755.14	14332390.07	39°28'5.2080"N	80°54'11.2691"W	1872.55	228.673	6.72	3.49	-7.20	Middlesex: 6679' MD
6728.00	55.550	183.310	6256.96	753.37	-1276.36	-1409.66	1667751.67	14332350.28	39°28'4.8146"N	80°54'11.3138"W	1901.64	227.841	6.72	3.68	-6.89	
6775.00	57.470	179.060	6282.91	790.19	-1315.53	-1410.46	1667750.88	14332311.13	39°28'4.4275"N	80°54'11.3245"W	1928.73	226.994	8.58	4.09	-9.04	
6823.00	59.960	175.280	6307.84	829.61	-1356.48	-1408.41	1667752.92	14332270.19	39°28'4.0227"N	80°54'11.2990"W	1955.42	226.076	8.50	5.19	-7.87	
6846.00†	61.577	174.370	6319.07	849.12	-1376.47	-1406.60	1667754.73	14332250.21	39°28'3.8251"N	80°54'11.2762"W	1968.04	225.620	7.83	7.03	-3.96	Burkett: 6846' MD
6870.00	63.270	173.450	6330.18	869.87	-1397.62	-1404.34	1667756.99	14332229.07	39°28'3.6160"N	80°54'11.2477"W	1981.30	225.137	7.83	7.06	-3.83	
6892.00†	65.313	172.987	6339.72	889.25	-1417.31	-1402.00	1667759.33	14332209.39	39°28'3.4215"N	80°54'11.2181"W	1993.58	224.689	9.48	9.29	-2.10	Tully: 6892' MD
6918.00	67.730	172.460	6350.08	912.62	-1440.96	-1398.98	1667762.35	14332185.75	39°28'3.1877"N	80°54'11.1799"W	2008.36	224.153	9.48	9.29	-2.03	
6965.00	72.190	172.010	6366.18	955.94	-1484.70	-1393.01	1667768.31	14332142.03	39°28'2.7653"N	80°54'11.1044"W	2035.88	223.175	9.53	9.49	-0.96	
6985.00†	73.382	172.140	6372.10	974.70	-1503.62	-1390.38	1667770.94	14332123.11	39°28'2.5683"N	80°54'11.0711"W	2047.93	222.759	5.99	5.96	0.65	Marcellus POE: 6985' MD
7013.00	75.050	172.320	6379.72	1001.14	-1530.31	-1386.74	1667774.69	14332096.43	39°28'2.3044"N	80°54'11.0250"W	2065.16	222.182	5.99	5.96	0.64	
7108.00	83.720	174.250	6397.20	1092.34	-1622.96	-1375.85	1667785.47	14332003.82	39°28'1.3886"N	80°54'10.8875"W	2127.67	220.289	9.34	9.13	2.03	
7202.00	88.820	174.090	6403.31	1183.71	-1716.24	-1366.33	1667794.99	14331910.57	39°28'0.4666"N	80°54'10.7673"W	2193.70	218.524	5.43	5.43	-0.17	
7297.00	89.550	170.350	6404.66	1276.93	-1810.34	-1353.48	1667807.83	14331816.51	39°27'59.5364"N	80°54'10.6048"W	2260.36	216.783	4.00	0.77	-3.93	

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 5 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 3H
Field	Tyler	API	API: 47-095-02672-0000
Facility	Hogue Pad	Wellbore	Fender Unit 3H AWB
Slot	Slot #03		

WELLPATH DATA (190 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
7382.00	89.580	168.060	6405.39	1370.99	-1903.65	-1335.70	1667825.61	14331723.24	39°27'58.6140"N	80°54'10.3793"W	2325.51	215.055	2.42	0.03	-2.42	
7487.00	89.460	164.110	6406.18	1465.62	-1995.84	-1312.86	1667848.44	14331631.08	39°27'57.7026"N	80°54'10.0894"W	2388.93	213.337	4.16	-0.13	-4.16	
7582.00	89.520	161.910	6407.03	1560.50	-2086.69	-1285.10	1667876.18	14331540.28	39°27'56.8044"N	80°54'9.7367"W	2450.66	211.627	2.32	0.06	-2.32	
7676.00	89.860	162.330	6407.54	1654.55	-2176.15	-1256.24	1667905.03	14331450.85	39°27'55.9200"N	80°54'9.3700"W	2512.72	209.997	0.57	0.36	0.45	
7771.00	89.830	161.050	6407.79	1749.54	-2266.34	-1226.39	1667934.86	14331360.70	39°27'55.0283"N	80°54'8.9907"W	2576.88	208.419	1.35	-0.03	-1.35	
7866.00	90.050	161.330	6407.89	1844.54	-2356.26	-1195.76	1667965.48	14331270.81	39°27'54.1392"N	80°54'8.6014"W	2642.31	206.907	0.37	0.23	0.29	
7961.00	89.770	161.630	6408.04	1939.54	-2446.34	-1165.59	1667995.65	14331180.77	39°27'53.2486"N	80°54'8.2179"W	2709.83	205.476	0.43	-0.29	0.32	
8056.00	89.770	161.160	6408.42	2034.54	-2536.38	-1135.28	1668025.94	14331090.77	39°27'52.3584"N	80°54'7.8327"W	2778.86	204.113	0.49	0.00	-0.49	
8151.00	89.650	161.100	6408.90	2129.53	-2626.27	-1104.56	1668056.65	14331000.91	39°27'51.4686"N	80°54'7.4422"W	2849.09	202.811	0.14	-0.13	-0.06	
8246.00	89.860	161.360	6409.31	2224.53	-2716.22	-1073.99	1668087.21	14330911.00	39°27'50.5803"N	80°54'7.0537"W	2920.83	201.574	0.35	0.22	0.27	
8341.00	89.770	161.160	6409.62	2319.53	-2806.18	-1043.47	1668117.72	14330821.07	39°27'49.6908"N	80°54'6.6658"W	2993.90	200.397	0.23	-0.09	-0.21	
8436.00	89.830	161.330	6409.95	2414.53	-2896.13	-1012.92	1668148.25	14330731.16	39°27'48.8014"N	80°54'6.2776"W	3068.16	199.277	0.19	0.06	0.18	
8530.00	89.770	161.110	6410.28	2508.53	-2985.13	-982.66	1668178.50	14330642.20	39°27'47.9215"N	80°54'5.8930"W	3142.71	198.221	0.24	-0.06	-0.23	
8625.00	89.610	161.230	6410.79	2603.53	-3075.04	-952.00	1668209.15	14330552.32	39°27'47.0325"N	80°54'5.5033"W	3219.04	197.202	0.21	-0.17	0.13	
8720.00	89.370	161.100	6411.64	2698.53	-3164.95	-921.33	1668239.81	14330462.44	39°27'46.1436"N	80°54'5.1135"W	3296.33	196.230	0.29	-0.25	-0.14	
8814.00	89.310	161.300	6412.72	2792.52	-3253.93	-891.04	1668270.09	14330373.50	39°27'45.2639"N	80°54'4.7285"W	3373.73	195.314	0.22	-0.06	0.21	
8909.00	89.400	161.620	6413.79	2887.51	-3344.07	-860.83	1668300.28	14330283.47	39°27'44.3734"N	80°54'4.3447"W	3453.02	194.436	0.35	0.09	0.34	
9004.00	89.460	161.350	6414.73	2982.51	-3434.07	-830.67	1668330.43	14330193.43	39°27'43.4828"N	80°54'3.9613"W	3533.11	193.598	0.29	0.06	-0.28	
9099.00	89.460	161.550	6415.63	3077.50	-3524.13	-800.45	1668360.60	14330103.41	39°27'42.5923"N	80°54'3.5773"W	3613.89	192.797	0.21	0.00	0.21	
9194.00	89.280	160.910	6416.67	3172.50	-3614.08	-769.88	1668391.20	14330013.50	39°27'41.7031"N	80°54'3.1888"W	3695.17	192.026	0.70	-0.19	-0.67	
9288.00	89.430	161.290	6417.73	3266.49	-3703.00	-739.43	1668421.63	14329924.61	39°27'40.8239"N	80°54'2.8019"W	3776.11	191.293	0.43	0.16	0.40	
9383.00	89.430	161.230	6418.68	3361.48	-3792.96	-708.91	1668452.14	14329834.69	39°27'39.9344"N	80°54'2.4140"W	3858.64	190.587	0.06	0.00	-0.06	
9478.00	89.890	161.140	6419.24	3456.48	-3882.88	-678.28	1668482.76	14329744.80	39°27'39.0463"N	80°54'2.0247"W	3941.68	189.909	0.49	0.48	-0.09	
9573.00	89.890	161.380	6419.42	3551.48	-3972.85	-647.76	1668513.27	14329654.87	39°27'38.1559"N	80°54'1.6368"W	4025.31	189.260	0.25	0.00	0.25	
9667.00	89.950	161.110	6419.55	3645.48	-4061.86	-617.53	1668543.48	14329565.90	39°27'37.2758"N	80°54'1.2527"W	4108.53	188.645	0.29	0.06	-0.29	
9762.00	89.770	160.900	6419.79	3740.48	-4151.68	-586.61	1668574.39	14329476.11	39°27'36.3877"N	80°54'0.8598"W	4192.92	188.042	0.29	-0.19	-0.22	
9857.00	90.020	161.110	6419.96	3835.48	-4241.51	-555.69	1668605.30	14329386.32	39°27'35.4996"N	80°54'0.4668"W	4277.75	187.464	0.34	0.26	0.22	
9952.00	89.890	161.160	6420.04	3930.48	-4331.41	-524.97	1668636.00	14329296.46	39°27'34.6107"N	80°54'0.0765"W	4363.10	186.911	0.15	-0.14	0.05	
10046.00	89.680	161.210	6420.39	4024.48	-4420.38	-494.66	1668666.31	14329207.52	39°27'33.7310"N	80°53'59.6912"W	4447.97	186.385	0.23	-0.22	0.05	
10141.00	89.490	160.940	6421.08	4119.48	-4510.24	-463.85	1668697.11	14329117.69	39°27'32.8425"N	80°53'59.2997"W	4534.03	185.872	0.35	-0.20	-0.28	

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 6 of 10



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #03
Well	Fender Unit 3H
API	API: 47-095-02672-0000
Wellbore	Fender Unit 3H AWB

WELLPATH DATA (190 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
10236.00	89.680	161.370	4214.47	4214.47	-4690.75	-433.16	1668727.78	14329027.82	39°27'31.9536"N	80°53'58.9097"W	4620.50	185.379	0.49	0.20	0.45	
10331.00	89.820	160.980	6422.34	4309.47	-4690.07	-402.51	1668758.42	14328937.94	39°27'31.0646"N	80°53'58.5202"W	4707.31	184.905	0.42	-0.06	-0.41	
10425.00	89.710	161.610	6422.89	4403.47	-4779.10	-372.36	1668788.55	14328848.95	39°27'30.1843"N	80°53'58.1372"W	4793.58	184.455	0.68	0.10	0.67	
10520.00	89.770	161.620	6423.33	4498.47	-4869.25	-342.40	1668818.50	14328758.83	39°27'29.2930"N	80°53'57.7564"W	4881.27	184.022	0.06	0.06	0.01	
10615.00	89.620	161.540	6423.83	4593.46	-4959.38	-312.38	1668848.51	14328668.74	39°27'28.4019"N	80°53'57.3750"W	4969.21	183.604	0.18	-0.16	-0.08	
10710.00	89.770	161.540	6424.34	4688.46	-5049.49	-282.30	1668878.58	14328578.66	39°27'27.5109"N	80°53'56.9928"W	5057.38	183.200	0.16	0.16	0.00	
10805.00	89.800	161.380	6424.69	4783.46	-5139.56	-252.10	1668908.77	14328488.63	39°27'26.6204"N	80°53'56.6090"W	5145.74	182.808	0.17	0.03	-0.17	
10900.00	89.770	161.200	6425.05	4878.46	-5229.54	-221.62	1668939.23	14328398.69	39°27'25.7308"N	80°53'56.2218"W	5234.23	182.427	0.19	-0.03	-0.19	
10995.00	89.770	161.110	6425.43	4973.46	-5319.45	-190.94	1668969.91	14328308.82	39°27'24.8418"N	80°53'55.8318"W	5322.87	182.056	0.09	0.00	-0.09	
11089.00	89.550	161.380	6425.99	5067.45	-5408.45	-160.71	1669000.12	14328219.84	39°27'23.9618"N	80°53'55.4478"W	5410.84	181.702	0.37	-0.23	0.29	
11184.00	89.520	161.000	6426.76	5162.45	-5498.38	-130.08	1669030.74	14328129.96	39°27'23.0727"N	80°53'55.0586"W	5499.91	181.355	0.40	-0.03	-0.40	
11279.00	89.650	161.340	6427.45	5257.45	-5588.29	-99.42	1669061.38	14328040.08	39°27'22.1837"N	80°53'54.6690"W	5589.17	181.019	0.38	0.14	0.36	
11373.00	89.310	160.570	6428.30	5351.44	-5677.14	-68.75	1669092.04	14327951.27	39°27'21.3052"N	80°53'54.2793"W	5677.56	180.694	0.90	-0.36	-0.82	
11468.00	89.620	161.310	6428.19	5446.44	-5766.93	-37.73	1669123.05	14327861.51	39°27'20.4175"N	80°53'53.8851"W	5767.05	180.375	0.84	0.33	0.78	
11563.00	89.150	160.480	6430.21	5541.43	-5856.69	-6.64	1669154.13	14327771.79	39°27'19.5300"N	80°53'53.4900"W	5856.69	180.065	1.00	-0.49	-0.87	
11658.00	89.280	160.970	6431.51	5636.42	-5946.35	24.72	1669185.48	14327682.16	39°27'18.6434"N	80°53'53.0915"W	5946.40	179.762	0.53	0.14	0.52	
11752.00	89.430	161.660	6432.57	5730.41	-6035.39	54.83	1669215.58	14327593.16	39°27'17.7631"N	80°53'52.7089"W	6035.64	179.479	0.75	0.16	0.73	
11847.00	89.180	160.860	6433.72	5825.40	-6125.35	85.35	1669246.08	14327503.24	39°27'16.8737"N	80°53'52.3212"W	6125.94	179.202	0.88	-0.26	-0.84	
11942.00	89.310	161.400	6434.97	5920.39	-6215.24	116.07	1669276.79	14327413.39	39°27'15.9849"N	80°53'51.9308"W	6216.32	178.930	0.58	0.14	0.57	
12036.00	89.650	161.610	6435.82	6014.39	-6304.38	145.89	1669306.60	14327324.28	39°27'15.1036"N	80°53'51.5520"W	6306.06	178.674	0.43	0.36	0.22	
12131.00	89.370	160.820	6436.64	6109.38	-6394.31	176.48	1669337.18	14327234.38	39°27'14.2144"N	80°53'51.1633"W	6396.75	178.419	0.88	-0.29	-0.83	
12226.00	89.340	161.150	6437.71	6204.38	-6484.12	207.43	1669368.11	14327144.61	39°27'13.3264"N	80°53'50.7700"W	6487.44	178.168	0.36	-0.03	0.35	
12320.00	89.250	161.380	6438.86	6298.37	-6573.14	237.62	1669398.29	14327055.63	39°27'12.4463"N	80°53'50.3864"W	6577.43	177.930	0.26	-0.10	0.24	
12414.00	89.370	161.530	6440.00	6392.36	-6662.25	267.51	1669428.17	14326966.55	39°27'11.5652"N	80°53'50.0066"W	6667.62	177.701	0.20	0.13	0.16	
12509.00	89.680	162.030	6440.78	6487.35	-6752.48	297.22	1669457.86	14326876.36	39°27'10.6731"N	80°53'49.6293"W	6759.02	177.480	0.62	0.33	0.53	
12604.00	89.340	160.920	6441.60	6582.35	-6842.55	327.40	1669488.03	14326786.32	39°27'9.7825"N	80°53'49.2459"W	6850.38	177.261	1.22	-0.36	-1.17	
12699.00	89.180	161.020	6442.82	6677.34	-6932.35	358.37	1669518.99	14326696.55	39°27'8.8946"N	80°53'48.8523"W	6941.61	177.041	0.20	-0.17	0.11	
12793.00	89.060	161.270	6444.27	6771.33	-7021.30	388.75	1669549.36	14326607.84	39°27'8.0152"N	80°53'48.4664"W	7032.05	176.831	0.29	-0.13	0.27	
12888.00	89.180	160.980	6445.73	6866.31	-7111.18	419.48	1669580.07	14326517.80	39°27'7.1265"N	80°53'48.0760"W	7123.54	176.624	0.33	0.13	-0.31	
12983.00	89.180	161.610	6447.08	6961.30	-7201.15	449.94	1669610.53	14326427.86	39°27'6.2369"N	80°53'47.6889"W	7215.20	176.425	0.66	0.00	0.66	

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 7 of 10



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Well	Fender Unit 3H
API	API: 47-095-02672-0000
Wellbore	Fender Unit 3H AWB
Slot	Slot #03

WELLPATH DATA (190 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
13077.00	89.620	161.160	6448.07	7055.30	-7290.23	479.94	1669640.52	14326338.82	39°27'5.3562"N	80°53'47.3078"W	7306.01	176.233	0.67	0.47	-0.48	
13172.00	89.580	162.100	6448.73	7150.29	-7380.39	509.88	1669670.44	14326248.70	39°27'4.4648"N	80°53'46.9274"W	7397.98	176.048	0.99	-0.04	0.99	
13267.00	89.620	161.520	6449.40	7245.28	-7470.64	539.54	1669700.09	14326158.49	39°27'3.5725"N	80°53'46.5507"W	7490.09	175.869	0.61	0.04	-0.61	
13362.00	89.580	161.570	6450.06	7340.28	-7560.75	569.61	1669730.15	14326068.41	39°27'2.6815"N	80°53'46.1687"W	7582.17	175.692	0.07	-0.04	0.05	
13456.00	89.520	161.610	6450.80	7434.27	-7649.93	599.29	1669759.82	14325979.26	39°27'1.7997"N	80°53'45.7916"W	7673.37	175.521	0.08	-0.06	0.04	
13551.00	89.520	161.190	6451.59	7529.27	-7739.97	629.59	1669790.11	14325889.26	39°27'0.9095"N	80°53'45.4066"W	7765.53	175.350	0.44	0.00	-0.44	
13646.00	89.580	161.210	6452.34	7624.27	-7829.90	660.21	1669820.71	14325799.37	39°27'0.0204"N	80°53'45.0177"W	7857.68	175.180	0.07	0.06	0.02	
13740.00	89.520	161.720	6453.08	7718.26	-7919.02	690.09	1669850.58	14325710.28	39°26'59.1392"N	80°53'44.6381"W	7949.03	175.020	0.55	-0.06	0.54	
13835.00	89.520	161.700	6453.87	7813.25	-8009.22	719.90	1669880.38	14325620.12	39°26'58.2474"N	80°53'44.2594"W	8041.51	174.864	0.02	0.00	-0.02	
13930.00	89.370	160.790	6454.79	7908.25	-8099.17	750.44	1669910.91	14325530.21	39°26'57.3590"N	80°53'43.8714"W	8133.86	174.706	0.97	-0.16	-0.96	
14025.00	89.060	160.970	6456.09	8003.24	-8188.92	781.56	1669942.01	14325440.49	39°26'56.4706"N	80°53'43.4761"W	8226.13	174.548	0.38	-0.33	0.19	
14119.00	89.280	161.150	6457.46	8097.23	-8277.82	812.06	1669972.51	14325351.63	39°26'55.5916"N	80°53'43.0885"W	8317.56	174.397	0.30	0.23	0.19	
14214.00	89.370	160.710	6458.65	8192.22	-8367.60	843.10	1670003.53	14325261.89	39°26'54.7039"N	80°53'42.6942"W	8409.97	174.246	0.46	0.00	-0.46	
14309.00	89.370	161.030	6459.77	8287.21	-8457.35	874.23	1670034.65	14325172.17	39°26'53.8166"N	80°53'42.2987"W	8502.41	174.098	0.35	0.09	0.34	
14403.00	89.340	161.170	6460.83	8381.21	-8546.27	904.68	1670065.08	14325083.28	39°26'52.9373"N	80°53'41.9119"W	8594.02	173.957	0.15	-0.03	0.15	
14498.00	89.650	161.540	6461.66	8476.20	-8636.28	935.05	1670095.44	14324993.31	39°26'52.0474"N	80°53'41.5261"W	8686.75	173.821	0.51	0.33	0.39	
14592.00	89.740	161.350	6462.17	8570.20	-8725.39	964.96	1670125.34	14324904.23	39°26'51.1663"N	80°53'41.1462"W	8778.59	173.689	0.22	0.10	-0.20	
14687.00	89.860	161.570	6462.50	8665.20	-8815.46	995.17	1670155.53	14324814.20	39°26'50.2767"N	80°53'40.7625"W	8871.46	173.559	0.28	0.13	0.23	
14782.00	89.680	161.100	6462.88	8760.20	-8905.47	1025.57	1670185.93	14324724.23	39°26'49.3858"N	80°53'40.3762"W	8964.33	173.431	0.53	-0.19	-0.49	
14876.00	89.830	160.920	6463.28	8854.19	-8994.35	1056.16	1670216.50	14324635.39	39°26'48.5070"N	80°53'39.9877"W	9056.15	173.303	0.25	0.18	-0.19	
14971.00	89.770	161.220	6463.61	8949.19	-9084.21	1086.98	1670247.31	14324545.56	39°26'47.6185"N	80°53'39.5962"W	9149.01	173.177	0.32	-0.06	0.32	
15066.00	89.090	159.860	6464.66	9044.18	-9173.78	1118.62	1670278.94	14324456.03	39°26'46.7329"N	80°53'39.1941"W	9241.73	173.048	1.60	-0.72	-1.43	
15160.00	90.080	160.750	6465.24	9138.16	-9262.27	1150.30	1670310.61	14324367.57	39°26'45.8579"N	80°53'38.7916"W	9333.43	172.921	1.42	1.05	0.95	
15255.00	90.020	161.000	6465.15	9233.16	-9352.03	1181.42	1670341.72	14324277.85	39°26'44.9704"N	80°53'38.3962"W	9426.36	172.800	0.27	-0.06	0.26	
15349.00	90.380	161.670	6464.83	9327.16	-9441.09	1211.51	1670371.79	14324188.83	39°26'44.0899"N	80°53'38.0141"W	9518.50	172.688	0.81	0.38	0.71	
15444.00	90.570	161.570	6464.04	9422.16	-9531.24	1241.46	1670401.73	14324098.71	39°26'43.1986"N	80°53'37.6336"W	9611.75	172.579	0.23	0.20	-0.11	
15533.00	89.920	161.470	6463.23	9511.15	-9620.49	1301.37	1670461.61	14323919.54	39°26'41.4263"N	80°53'36.8727"W	9797.30	172.367	0.35	-0.34	-0.05	
15627.00	91.030	161.090	6462.45	9705.14	-9799.51	1331.54	1670491.77	14323830.55	39°26'40.5461"N	80°53'36.4895"W	9889.56	172.262	1.25	1.18	-0.40	
15722.00	90.540	161.360	6461.15	9800.13	-9889.45	1362.11	1670522.33	14323740.65	39°26'39.6668"N	80°53'36.1012"W	9982.81	172.168	0.59	-0.52	0.28	
15817.00	91.310	161.500	6459.62	9895.12	-9979.49	1392.36	1670552.57	14323650.64	39°26'38.7665"N	80°53'35.7170"W	10076.15	172.057	0.82	0.81	0.15	

Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 8 of 10



REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #03
Well	Fender Unit 3H
API	API: 47-095-02672-0000
Wellbore	Fender Unit 3H AWB

WELLPATH DATA (190 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
16011.00	90.600	161.550	6458.05	9989.11	-10068.63	1422.14	1670582.34	14323361.54	39°26'37.8652"N	80°53'35.3387"W	10168.57	171.960	0.76	-0.76	0.05	
16106.00	89.890	161.690	6457.64	10084.10	-10158.78	1452.10	1670612.28	14323471.42	39°26'36.9938"N	80°53'34.9582"W	10262.04	171.865	0.76	-0.75	0.15	
16201.00	90.110	161.140	6457.64	10179.10	-10248.83	1482.37	1670642.55	14323381.41	39°26'36.1035"N	80°53'34.5736"W	10355.48	171.770	0.62	0.23	-0.58	
16295.00	89.950	161.120	6457.59	10273.10	-10337.78	1512.78	1670672.94	14323292.50	39°26'35.2240"N	80°53'34.1875"W	10447.88	171.675	0.17	-0.17	-0.02	
16390.00	89.370	161.350	6458.16	10368.10	-10427.72	1543.34	1670703.48	14323202.59	39°26'34.3347"N	80°53'33.7993"W	10541.31	171.581	0.66	-0.61	0.24	
16484.00	89.490	161.070	6459.09	10462.09	-10516.71	1573.61	1670733.75	14323113.64	39°26'33.4548"N	80°53'33.4148"W	10633.79	171.490	0.32	0.13	-0.30	
16579.00	89.280	161.040	6460.11	10557.09	-10606.56	1604.45	1670764.58	14323023.82	39°26'32.5664"N	80°53'33.0230"W	10727.22	171.398	0.22	-0.22	-0.03	
16674.00	88.940	160.950	6461.59	10652.08	-10696.37	1635.39	1670795.50	14322934.05	39°26'31.6784"N	80°53'32.6301"W	10820.67	171.307	0.37	-0.36	-0.09	
16743.00	89.620	161.440	6462.46	10721.07	-10761.68	1657.63	1670817.73	14322868.76	39°26'31.0327"N	80°53'32.3476"W	10888.59	171.244	1.21	0.99	0.71	
16768.00‡	89.620	161.440	6462.62	10746.07	-10785.38	1665.58	1670825.68	14322845.07	39°26'30.7983"N	80°53'32.2466"W	10913.23	171.221	0.00	0.00	0.00	Projected MD at ID: 16768'

HOLE & CASING SECTIONS - Ref Wellbore: Fender Unit 3H AWB Ref Wellpath: Fender Unit 3H AWP Proj: 16768'										
String/Diameter	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start NIS (ft)	End NIS (ft)	Start EIW (ft)	End EIW (ft)	End EIW (ft)
16in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	0.00	0.00	-0.27
13.5in Open Hole	105.50	591.60	486.10	105.50	591.58	-0.27	-0.23	-0.23	-0.23	-4.08
10.75in Casing Surface	25.50	591.60	566.10	25.50	591.58	0.00	0.00	0.00	0.00	-4.08
9.875in Open Hole	591.60	2688.00	2096.40	591.58	2664.20	-4.08	-1.42	-1.42	-1.42	-102.74
7.625in Casing Intermediate	25.50	2668.30	2642.80	25.50	2645.14	0.00	0.00	0.00	0.00	-100.17
6.75in Open Hole	2688.00	16768.00	14080.00	2664.20	6462.62	-102.74	-180.65	-180.65	-180.65	1665.58
5in Casing Production	25.50	16768.00	16742.50	25.50	6462.62	0.00	0.00	0.00	0.00	-10785.38



Actual Wellpath Report

Fender Unit 3H AWP Proj: 16768'
Page 9 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 3H
Field	Tyler	API	API: 47-095-02672-0000
Facility	Hogue Pad	Wellbore	Fender Unit 3H AWB
Slot	Slot #03		

TARGETS

Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Fender Unit 3H - POE - Rev-2	6373.00	-1467.13	-1406.19	1667755.14	14332159.58	39°28'2.9290"N	80°54'11.2721"W	point
Fender Unit 3H - BHL - Rev-2	6406.00	-10915.81	1725.27	1670885.35	14322714.70	39°26'29.5086"N	80°53'31.4877"W	point
Fender Unit 3H - BHL - Rev-3	6406.00	-10806.88	1688.14	1670848.23	14322823.59	39°26'30.5856"N	80°53'31.9593"W	point
Fender Unit 3H - LP - Rev-2	6406.00	-1680.43	-1380.00	1667781.32	14331946.38	39°28'0.8207"N	80°54'10.9411"W	point

WELLPATH COMPOSITION - Ref Wellbore: Fender Unit 3H AWB Ref Wellpath: Fender Unit 3H AWP Proj: 16768'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	531.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <13-1/2">{100'-531'}	Fender Unit 3H AWB	3/3/2020
531.00	2618.00	BH NaviTrak (2019) (Axial)	02 APS EM <-9-7/8">{531'}{690'-2618'}	Fender Unit 3H AWB	3/3/2020
2618.00	5268.00	BH NaviTrak (2019) (Axial)	03 APS EM <-6-3/4">{2618'}{2801'-5268'}	Fender Unit 3H AWB	3/3/2020
5268.00	16768.00	BH OnTrak (2019) (Short spacing)	04 AutoTrak X-Gen <-6-3/4">{5268'}{5305'-16743'}	Fender Unit 3H AWB	3/3/2020



Actual Wellpath Report
 Fender Unit 3H AWP Proj: 16768'
 Page 10 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 3H
Field	Tyler	API	API: 47-095-02672-0000
Facility	Hogue Pad	Wellbore	Fender Unit 3H AWB
Slot	Slot #03		

COMMENTS
<p>Wellpath general comments API: 47-095-02672-0000 BHI Job #: 110313791B Rig: H&P 317 Duration: 03/05/2020-04/05/2020 Gyrodatta MS Gyro <13-1/2">(100'-531') APS EM <9-7/8">(531')(690'-2618') APS EM <6-3/4">(2618')(2801'-5268') AutoTrak X-Gen <6-3/4">(5268')(5305'-16743') Middlesex: 6679' MD Burkett: 6846' MD Tully: 6892' MD Marcellus POE: 6985' MD Projected MD at TD: 16768'</p>