



ANTERO RESOURCES CORPORATION

Location: Tyler County, WV
 Field: Tyler
 Facility: Hogue Pad
 Slot: Slot #01
 Well: Fender Unit 1H
 Wellbore: Fender Unit 1H PWB



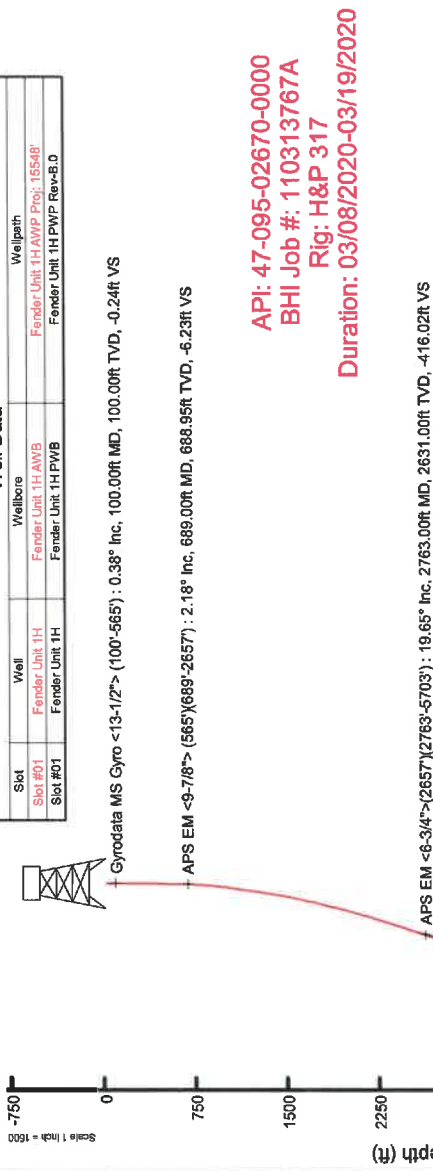
Grid System: NAD83 UTM Zone 17 North, US Feet
 North Reference: Grid north
 Scale: True distance
 Coordinates are in feet referenced to Slot
 Depths are in feet
 Created by: vobest on 2020-03-31; Database: WA, MP, Elements_Datb

Location Information

Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
Hogue Pad	1099140.410	14333004.260	39°28'17.1980"N	80°53'53.6910"W
Slot #01	0.00	1099140.410	39°28'17.1980"N	80°53'53.6910"W
H&P 317 (RKB) to Ground level (At Slot Slot #01)			25.5ft	
Mean Sea Level to Ground level (At Slot Slot #01)			-1014.5ft	
H&P 317 (RKB) to Mean Sea Level			1040ft	

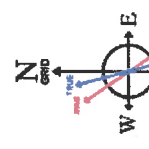
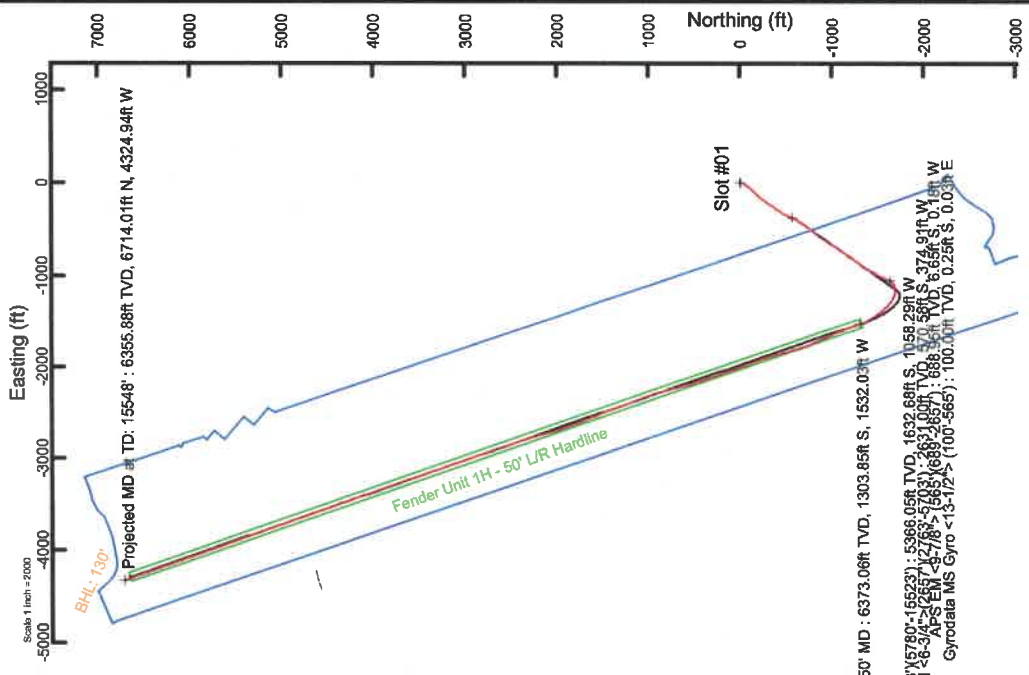
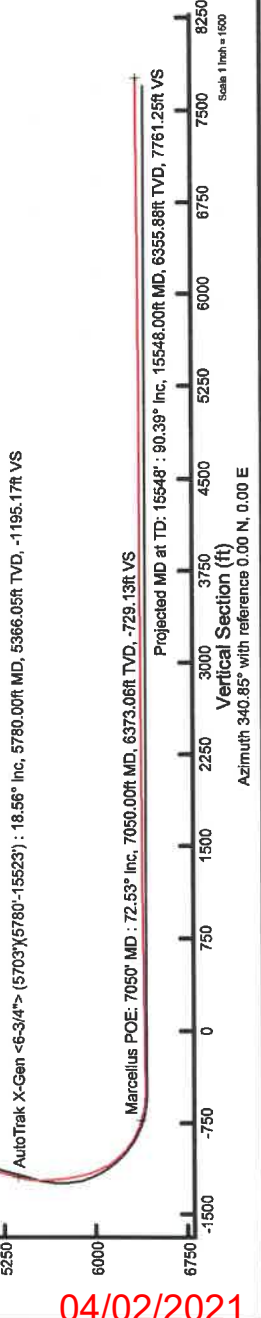
Well Data

Slot	Well	Wellbore	Wellpath
Slot #01	Fender Unit 1H	Fender Unit 1H AWB	Fender Unit 1H AWB
Slot #01	Fender Unit 1H	Fender Unit 1H PWB	Fender Unit 1H PWB Rev=3.0



Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS *100ft	VS (ft)
Tile On	2857.00	22.770	204.800	2532.19	-535.42	-359.65	3.48	-387.81
Proj. To Bottom	2727.00	22.770	204.800	2596.74	-560.05	-370.92	0.00	-407.38
Drill Out Csg	2812.00	22.770	204.800	2675.11	-589.98	-384.62	0.00	-431.14
Hold Tempert	3052.82	25.087	215.034	2895.91	-674.18	-433.35	2.00	-484.72
Curve KDP	5894.84	25.087	215.034	5550.86	-1682.01	-1148.86	0.00	-1222.13
POE	7072.37	71.503	340.854	5362.00	-1318.88	-1525.86	8.00	-748.07
Landing Pt.	7303.59	90.000	340.854	6410.00	-1104.31	-1596.41	8.00	-518.85
BHL	16520.83	90.000	340.854	6419.00	6858.13	-4293.34	0.00	7688.09



User specified (USDM) Dth: 88.87', Field: 51744.47
 Magnetic North is 7.00 degrees West of True North (at 3/8/2020)
 Grid North is 0.06 degrees East of True North
 To correct azimuth from True to Grid subtract 0.06 degrees
 To correct azimuth from Magnetic to Grid subtract 7.06 degrees

API: 47-095-02670-0000
 BHI Job #: 110313767A
 Rig: H&P 317
 Duration: 03/08/2020-03/19/2020

04/02/2021

Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 1H
Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	3/31/2020 at 8:22:27 PM
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	0.00	0.00	1669140.41	14333604.26	39°28'17.1980"N	80°53'53.5810"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		25.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Facility Vertical Datum	1040.00ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Mean Sea Level	25.50ft
MD Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #01)	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Origin	340.85°
		Section Azimuth	

Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION

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Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (174 stations) † = interpolated, ‡ = extrapolated station

MD fth	Inclination [°]	Azimuth [°]	TVD fth	Vert Sect fth	North fth	East fth	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
0.00†	0.000	173.740	0.00	0.00	0.00	0.00	1669140.41	14333604.26	39°28'17.1980"N	80°53'53.5810"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	173.740	25.50	0.00	0.00	0.00	1669140.41	14333604.26	39°28'17.1980"N	80°53'53.5810"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.380	173.740	100.00	-0.24	-0.25	0.03	1669140.44	14333604.01	39°28'17.1956"N	80°53'53.5807"W	0.25	173.740	0.51	0.51	0.00	Gyrodta MS Gyro <13-1/2"> (100'-565')
200.00	0.430	169.530	200.00	-0.94	-0.94	0.13	1669140.54	14333603.32	39°28'17.1887"N	80°53'53.5793"W	0.95	172.084	0.06	0.05	-4.21	
300.00	0.520	174.910	299.99	-1.75	-1.77	0.24	1669140.65	14333602.50	39°28'17.1806"N	80°53'53.5780"W	1.78	172.266	0.10	0.09	5.38	
400.00	0.590	177.920	399.99	-2.68	-2.73	0.30	1669140.71	14333601.53	39°28'17.1710"N	80°53'53.5772"W	2.75	173.760	0.08	0.07	3.01	
500.00	0.410	162.750	499.99	-3.53	-3.59	0.42	1669140.83	14333600.67	39°28'17.1625"N	80°53'53.5757"W	3.61	173.269	0.22	-0.18	-15.17	
565.00	0.370	173.250	564.98	-3.97	-4.02	0.52	1669140.93	14333600.24	39°28'17.1583"N	80°53'53.5745"W	4.05	172.667	0.13	-0.06	16.15	
689.00	2.180	198.350	688.95	-6.23	-6.65	-0.18	1669134.20	14333597.81	39°28'17.1322"N	80°53'53.5834"W	6.66	181.535	1.49	1.46	20.24	APS EM <9-7/8"> (565'(689'-2657'))
779.00	5.670	202.290	778.72	-10.92	-12.39	-2.40	1669138.01	14333591.87	39°28'17.0755"N	80°53'53.6118"W	12.63	190.977	3.89	3.88	4.38	
870.00	7.290	201.390	869.14	-18.68	-21.93	-6.22	1669134.20	14333582.34	39°28'16.9813"N	80°53'53.6606"W	22.79	195.823	1.78	1.78	-0.99	
962.00	8.500	201.220	960.27	-28.29	-33.70	-10.81	1669129.61	14333570.57	39°28'16.8650"N	80°53'53.7193"W	35.39	197.775	1.32	1.32	-0.18	
1056.00	10.150	203.640	1053.02	-39.57	-47.77	-16.64	1669123.78	14333556.51	39°28'16.7261"N	80°53'53.7939"W	50.58	199.207	1.80	1.76	2.57	
1151.00	12.320	212.580	1146.20	-52.09	-63.98	-25.46	1669114.96	14333540.30	39°28'16.5659"N	80°53'53.9065"W	68.86	201.697	2.92	2.28	9.41	
1246.00	13.530	216.100	1238.79	-64.70	-81.50	-37.46	1669102.96	14333522.79	39°28'16.3929"N	80°53'54.0599"W	89.70	204.687	1.52	1.27	3.71	
1341.00	16.480	217.620	1330.54	-78.42	-101.16	-52.24	1669088.19	14333503.14	39°28'16.1988"N	80°53'54.2486"W	113.85	207.313	3.13	3.11	1.60	
1435.00	19.910	221.450	1419.83	-93.59	-123.72	-70.98	1669069.46	14333480.59	39°28'15.9760"N	80°53'54.4879"W	142.64	209.843	3.86	3.65	4.07	
1530.00	23.480	224.320	1508.09	-109.99	-149.40	-94.92	1669045.53	14333454.92	39°28'15.7225"N	80°53'54.7935"W	177.00	212.430	3.92	3.76	3.02	
1625.00	24.940	222.850	1594.74	-127.85	-177.62	-121.72	1669018.70	14333426.71	39°28'15.4439"N	80°53'55.1362"W	215.35	214.431	1.66	1.54	-1.55	
1719.00	25.440	219.180	1679.80	-147.76	-207.80	-148.00	1668992.47	14333396.54	39°28'15.1458"N	80°53'55.4712"W	255.12	215.459	1.74	0.53	-3.90	
1815.00	23.120	216.430	1767.31	-169.24	-238.96	-172.22	1668968.26	14333366.40	39°28'14.8382"N	80°53'55.7805"W	294.55	215.781	2.69	-2.42	-2.86	
1909.00	21.530	214.480	1854.26	-189.90	-268.03	-192.95	1668947.94	14333336.34	39°28'14.5511"N	80°53'56.0452"W	330.25	215.749	1.87	-1.63	-2.07	
2004.00	22.740	212.640	1942.26	-211.60	-297.86	-212.72	1668927.78	14333306.52	39°28'14.2565"N	80°53'56.2978"W	366.02	215.533	1.47	1.27	-1.94	
2099.00	24.600	214.710	2029.26	-234.62	-329.58	-233.88	1668906.62	14333274.81	39°28'13.9433"N	80°53'56.5681"W	404.13	215.361	2.14	1.96	2.18	
2194.00	26.520	215.440	2114.96	-268.57	-363.12	-257.44	1668883.07	14333241.29	39°28'13.6121"N	80°53'56.8690"W	445.12	215.336	2.05	2.02	0.77	
2289.00	26.620	214.000	2199.93	-283.62	-398.04	-281.64	1668858.88	14333206.38	39°28'13.2671"N	80°53'57.1781"W	487.61	215.282	0.69	0.11	-1.52	
2384.00	25.700	210.810	2285.20	-309.64	-433.38	-304.10	1668836.43	14333171.05	39°28'12.9181"N	80°53'57.4649"W	529.43	215.057	1.77	-0.97	-3.36	
2478.00	25.880	209.650	2369.54	-336.27	-468.71	-324.69	1668815.85	14333135.73	39°28'12.5691"N	80°53'57.7279"W	570.19	214.711	0.57	0.19	-1.23	
2573.00	25.370	207.880	2455.50	-363.80	-504.72	-344.46	1668796.09	14333099.74	39°28'12.2135"N	80°53'57.9806"W	611.06	214.313	0.97	-0.54	-1.86	
2657.00	22.770	204.600	2532.19	-387.81	-635.42	-359.65	1668780.91	14333069.06	39°28'11.9103"N	80°53'58.1746"W	644.99	213.890	3.48	-3.10	-3.90	



Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 1H
Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (174 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
2763.00	19.850	202.150	2631.00	-416.02	-570.58	-374.91	1668765.65	14333033.91	39°28'11.5829"N	80°53'58.3698"W	682.73	213.307	3.06	-2.94	-2.31	WPS EM <6-3/4" > 265.7' (2763-5703')
2857.00	19.130	205.560	2719.67	-438.84	-599.12	-387.51	1668763.05	14333005.38	39°28'11.2810"N	80°53'58.5309"W	713.52	212.895	1.33	-0.55	3.63	
2952.00	20.420	209.640	2809.07	-460.83	-627.57	-402.43	1668738.14	14332976.94	39°28'11.0000"N	80°53'58.7215"W	745.51	212.670	1.99	1.36	4.25	
3047.00	23.140	211.740	2897.28	-483.53	-657.85	-420.45	1668720.13	14332946.67	39°28'10.7008"N	80°53'58.9517"W	780.73	212.583	2.98	2.86	2.21	
3142.00	24.970	213.220	2984.03	-507.55	-690.51	-441.25	1668699.33	14332914.03	39°28'10.3783"N	80°53'59.2175"W	819.45	212.580	2.03	1.93	1.56	
3237.00	25.640	216.990	3069.92	-531.24	-723.70	-464.61	1668675.99	14332880.85	39°28'10.0505"N	80°53'59.5157"W	860.00	212.700	1.84	0.71	3.97	
3331.00	27.250	218.140	3154.08	-554.20	-756.87	-490.14	1668650.47	14332847.69	39°28'9.7230"N	80°53'59.8417"W	901.72	212.926	1.80	1.71	1.22	
3425.00	25.970	217.020	3238.12	-577.29	-790.23	-515.82	1668624.80	14332814.34	39°28'9.3935"N	80°54'0.1697"W	943.68	213.134	1.46	-1.36	-1.19	
3520.00	25.010	220.740	3328.39	-600.09	-823.73	-542.80	1668597.83	14332780.86	39°28'9.0627"N	80°54'0.5142"W	986.49	213.383	1.87	-0.96	3.72	
3620.00	25.560	218.860	3414.29	-621.02	-854.91	-568.77	1668571.87	14332749.69	39°28'8.7549"N	80°54'0.8457"W	1026.82	213.636	1.02	0.58	-1.98	
3714.00	26.870	217.000	3498.62	-643.60	-887.67	-594.28	1668546.37	14332716.95	39°28'8.4314"N	80°54'1.1714"W	1068.23	213.802	1.64	1.39	-1.98	
3809.00	25.480	212.370	3583.89	-668.27	-922.08	-618.14	1668522.52	14332682.55	39°28'8.0916"N	80°54'1.4762"W	1110.10	213.837	2.60	-1.46	-4.87	
3904.00	25.150	212.490	3669.77	-693.52	-956.36	-639.92	1668500.74	14332648.28	39°28'7.7530"N	80°54'1.7545"W	1150.71	213.787	0.35	-0.35	0.13	
3999.00	24.940	212.350	3755.83	-718.51	-990.31	-661.48	1668479.19	14332614.35	39°28'7.4177"N	80°54'2.0299"W	1190.91	213.741	0.23	-0.22	-0.15	
4093.00	24.960	212.060	3841.06	-743.28	-1023.86	-682.62	1668458.07	14332580.81	39°28'7.0863"N	80°54'2.2998"W	1230.55	213.692	0.13	0.02	-0.31	
4188.00	24.970	213.330	3927.19	-768.05	-1057.60	-704.27	1668436.42	14332547.08	39°28'6.7631"N	80°54'2.5764"W	1270.64	213.660	0.56	0.01	1.34	
4283.00	27.330	215.720	4012.46	-792.81	-1092.07	-728.03	1668412.67	14332512.63	39°28'6.4127"N	80°54'2.8798"W	1312.49	213.689	2.72	2.48	2.52	
4378.00	27.210	213.110	4096.90	-818.66	-1127.97	-752.63	1668388.09	14332476.74	39°28'6.0681"N	80°54'3.1939"W	1356.01	213.713	1.27	-0.13	-2.75	
4473.00	26.490	212.170	4181.66	-845.19	-1164.10	-775.77	1668364.95	14332440.63	39°28'5.7013"N	80°54'3.4896"W	1396.91	213.680	0.88	-0.76	-0.99	
4567.00	27.100	211.950	4265.57	-871.74	-1200.01	-798.26	1668342.47	14332404.73	39°28'5.3466"N	80°54'3.7769"W	1441.26	213.632	0.66	0.65	-0.23	
4662.00	27.060	217.790	4350.17	-897.12	-1235.45	-822.96	1668317.78	14332369.30	39°28'4.9966"N	80°54'4.0923"W	1484.45	213.668	2.80	-0.04	6.15	
4757.00	27.730	217.780	4434.51	-920.97	-1270.00	-849.74	1668291.01	14332334.77	39°28'4.6555"N	80°54'4.4342"W	1528.06	213.786	0.71	0.71	-0.01	
4851.00	27.710	220.900	4517.73	-943.81	-1303.80	-877.45	1668263.31	14332300.98	39°28'4.3216"N	80°54'4.7880"W	1571.57	213.940	1.54	-0.02	3.32	
4946.00	26.760	217.440	4602.20	-966.62	-1337.48	-904.92	1668235.86	14332267.31	39°28'3.9891"N	80°54'5.1387"W	1614.85	214.082	1.94	-1.00	-3.64	
5041.00	25.740	208.590	4687.43	-992.01	-1372.41	-928.11	1668212.67	14332232.40	39°28'3.6441"N	80°54'5.4350"W	1656.78	214.069	3.81	-1.07	-8.26	
5135.00	24.640	202.080	4772.51	-1020.21	-1408.33	-945.56	1668195.23	14332196.49	39°28'3.2893"N	80°54'5.6580"W	1696.31	213.878	3.59	-1.17	-7.93	
5230.00	23.750	207.240	4859.17	-1048.31	-1448.70	-961.76	1668179.03	14332161.14	39°28'2.9399"N	80°54'5.8650"W	1734.72	213.671	2.41	-0.94	5.43	
5325.00	25.040	213.080	4945.70	-1073.82	-1477.56	-981.50	1668159.31	14332127.30	39°28'2.6055"N	80°54'6.1171"W	1773.84	213.595	2.88	1.36	6.15	
5419.00	24.700	210.360	5030.99	-1098.76	-1511.17	-1002.28	1668138.53	14332093.69	39°28'2.2735"N	80°54'6.3826"W	1813.34	213.554	1.27	-0.36	-2.85	
5514.00	22.820	207.180	5117.94	-1124.37	-1544.69	-1020.73	1668120.09	14332060.19	39°28'1.9424"N	80°54'6.6183"W	1851.48	213.457	2.39	-1.98	-3.39	

Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #01
Well	Fender Unit 1H
API	47-095-02670-0000
Wellbore	Fender Unit 1H AWB

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MD	Inclination (ft)	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
5609.00	21.810	204.090	5205.82	-1149.95	-1577.19	-1036.35	1668104.48	14332027.70	39°28'1.8213"N	80°54'6.8179"W	1887.21	213.308	1.63	-1.06	-3.25	
5703.00	20.520	199.980	5293.49	-1175.45	-1608.62	-1049.11	1668091.72	14331996.29	39°28'1.0109"N	80°54'6.9811"W	1920.49	213.112	2.09	-1.37	-4.37	
5780.00	18.560	201.870	5368.05	-1195.17	-1632.68	-1058.29	1668082.55	14331972.24	39°28'1.0732"N	80°54'7.0984"W	1945.66	212.951	2.67	-2.55	2.45	AutoTrak X-Gen <6-3/4"> (5703' \ 5780'-15523')
5875.00	21.860	230.700	5455.41	-1212.72	-1657.98	-1077.66	1668063.19	14331946.94	39°28'0.8233"N	80°54'7.3457"W	1977.43	213.023	10.92	3.47	30.35	
5970.00	17.680	254.610	5544.93	-1217.87	-1673.04	-1105.31	1668035.54	14331931.89	39°28'0.6748"N	80°54'7.6985"W	2005.19	213.451	9.49	-4.40	25.17	
6065.00	18.650	282.490	5635.21	-1213.86	-1678.86	-1134.28	1668006.58	14331926.08	39°28'0.6176"N	80°54'8.0680"W	2026.12	214.044	2.78	1.02	8.29	
6159.00	19.390	284.570	5724.08	-1207.13	-1682.30	-1164.72	1667976.16	14331922.64	39°28'0.5839"N	80°54'8.4562"W	2046.14	214.696	1.07	0.79	2.21	
6254.00	19.770	281.780	5813.66	-1195.12	-1680.51	-1196.17	1667944.72	14331924.43	39°28'0.6019"N	80°54'8.8572"W	2062.75	215.443	6.06	0.40	18.12	
6348.00	23.040	288.950	5901.18	-1175.59	-1671.29	-1229.15	1667911.76	14331933.64	39°28'0.8934"N	80°54'9.2775"W	2074.61	216.333	4.45	3.48	7.63	
6443.00	26.550	300.130	5987.46	-1148.00	-1654.58	-1265.12	1667875.79	14331950.35	39°28'0.8590"N	80°54'9.7360"W	2082.82	217.402	6.15	3.69	11.77	
6538.00	32.700	307.730	6070.03	-1110.37	-1628.18	-1303.83	1667837.10	14331976.73	39°28'1.1203"N	80°54'10.2292"W	2085.89	218.687	7.37	6.47	8.00	
6633.00	40.620	316.380	6146.23	-1060.62	-1590.00	-1345.56	1667795.39	14332014.89	39°28'1.4980"N	80°54'10.7607"W	2082.94	220.240	9.94	8.34	9.11	
6728.00	47.350	321.830	6214.57	-999.35	-1540.08	-1388.55	1667752.42	14332064.80	39°28'1.9919"N	80°54'11.3082"W	2073.62	222.038	8.12	7.08	5.74	
6753.00†	49.324	322.537	6231.19	-981.66	-1525.32	-1400.00	1667740.98	14332079.55	39°28'2.1379"N	80°54'11.4540"W	2070.41	222.547	8.17	7.89	2.83	Middlesex: 6763' MD
6822.00	54.790	324.290	6273.60	-929.76	-1481.63	-1432.39	1667708.60	14332123.22	39°28'2.5701"N	80°54'11.8664"W	2060.82	224.032	8.17	7.92	2.54	
6869.00	59.170	326.830	6299.21	-891.75	-1449.13	-1454.65	1667686.34	14332155.71	39°28'2.8915"N	80°54'12.1498"W	2053.29	225.109	10.36	9.32	5.40	
6914.00†	62.422	329.395	6321.16	-853.44	-1415.78	-1475.38	1667665.62	14332189.05	39°28'3.2213"N	80°54'12.4137"W	2044.79	226.181	8.77	7.23	5.70	Burkett: 6914' MD
6917.00	62.640	329.560	6322.55	-850.84	-1413.48	-1476.73	1667664.27	14332191.34	39°28'3.2440"N	80°54'12.4309"W	2044.18	226.254	8.77	7.28	5.51	
6963.00†	66.133	332.459	6342.43	-809.98	-1377.21	-1496.82	1667644.19	14332227.61	39°28'3.6028"N	80°54'12.6865"W	2034.00	227.383	9.48	7.59	6.30	Tully: 6963' MD
6964.00	66.210	332.520	6342.84	-809.07	-1376.39	-1497.24	1667643.77	14332228.42	39°28'3.6108"N	80°54'12.6919"W	2033.76	227.408	9.48	7.66	6.12	
7012.00	69.830	334.560	6360.80	-764.93	-1336.55	-1517.06	1667623.96	14332268.25	39°28'4.0048"N	80°54'12.9441"W	2021.84	228.620	8.51	7.54	4.25	
7050.00†	72.529	336.240	6373.06	-729.13	-1303.85	-1532.03	1667609.00	14332300.93	39°28'4.3282"N	80°54'13.1345"W	2011.75	229.600	8.24	7.10	4.42	Marcellus POE: 7050' MD
7059.00	73.170	336.630	6375.71	-720.55	-1295.97	-1535.47	1667605.56	14332308.81	39°28'4.4061"N	80°54'13.3946"W	2009.28	229.835	8.24	7.13	4.34	
7107.00	77.320	340.300	6387.94	-674.20	-1252.80	-1552.48	1667588.55	14332351.96	39°28'4.8329"N	80°54'13.7965"W	1994.92	231.098	11.37	8.65	7.65	
7202.00	84.520	340.290	6402.92	-580.45	-1164.55	-1584.09	1667566.95	14332440.18	39°28'5.7055"N	80°54'13.7965"W	1966.09	233.679	7.58	7.58	-0.01	
7296.00	90.630	337.820	6405.90	-486.63	-1076.88	-1617.65	1667523.41	14332527.81	39°28'6.5723"N	80°54'14.2232"W	1943.32	236.348	7.01	6.50	-2.63	
7391.00	90.600	335.380	6405.88	-391.91	-989.71	-1655.38	1667485.70	14332614.95	39°28'7.4342"N	80°54'14.7030"W	1928.68	239.126	2.57	-0.03	-2.57	
7486.00	90.480	335.410	6404.98	-297.34	-903.34	-1694.93	1667446.16	14332701.28	39°28'8.2883"N	80°54'15.2062"W	1920.63	241.944	0.13	-0.13	0.03	
7581.00	90.380	336.100	6404.27	-202.72	-816.72	-1733.94	1667407.17	14332787.87	39°28'9.1448"N	80°54'15.7024"W	1916.66	244.779	0.73	-0.11	0.73	
7675.00	90.510	339.130	6403.54	-108.89	-729.82	-1769.73	1667371.39	14332874.73	39°28'10.0041"N	80°54'16.1576"W	1914.31	247.589	3.23	0.14	3.22	

Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #01
Well	Fender Unit 1H
API	47-095-02670-0000
Wellbore	Fender Unit 1H AWB

WELLPATH DATA (174 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
7770.00	90.570	341.740	6402.65	-13.90	-640.31	-1801.54	1667339.59	14332964.20	39°28'10.8890"N	80°54'16.5620"W	1911.95	250.433	2.75	0.06	2.75	
7865.00	90.660	345.020	6401.63	80.99	-549.30	-1828.71	1667312.44	14333055.18	39°28'11.7888"N	80°54'16.9072"W	1909.42	253.281	3.45	0.09	3.45	
7960.00	90.630	345.000	6400.56	175.73	-457.54	-1853.28	1667287.88	14333146.90	39°28'12.6960"N	80°54'17.2193"W	1908.92	256.132	0.04	-0.03	-0.02	
8055.00	90.600	344.240	6399.54	270.52	-365.95	-1878.47	1667262.69	14333238.46	39°28'13.6015"N	80°54'17.5393"W	1913.78	258.976	0.80	-0.03	-0.80	
8149.00	90.720	345.740	6398.45	364.44	-276.07	-1905.97	1667235.24	14333328.30	39°28'14.4900"N	80°54'17.8887"W	1925.86	261.758	2.66	0.13	-2.66	
8244.00	90.600	340.130	6397.36	459.43	-186.29	-1936.99	1667204.19	14333418.04	39°28'15.3777"N	80°54'18.2831"W	1945.93	264.506	1.70	-0.13	-1.69	
8339.00	90.690	338.740	6396.29	554.39	-97.35	-1970.36	1667170.64	14333506.94	39°28'16.2571"N	80°54'18.7074"W	1972.76	267.171	1.47	0.09	-1.46	
8433.00	90.720	339.870	6395.13	648.35	-9.43	-2003.58	1667137.64	14333594.84	39°28'17.1264"N	80°54'19.1298"W	2003.60	269.730	1.20	0.03	1.20	
8528.00	90.750	340.930	6393.91	743.34	80.06	-2035.44	1667105.79	14333684.29	39°28'18.0112"N	80°54'19.5349"W	2037.02	272.252	1.12	0.03	1.12	
8623.00	90.660	340.900	6392.75	838.33	169.83	-2066.50	1667074.74	14333774.02	39°28'18.8987"N	80°54'19.9298"W	2073.47	274.698	0.10	-0.09	-0.03	
8718.00	90.690	340.630	6391.63	933.33	259.52	-2097.60	1667043.46	14333863.68	39°28'19.7855"N	80°54'20.3276"W	2113.79	277.052	0.29	0.03	-0.28	
8813.00	90.510	341.660	6390.63	1028.32	349.42	-2128.50	1667012.77	14333953.54	39°28'20.6743"N	80°54'20.7179"W	2156.99	279.323	1.10	-0.19	1.08	
8908.00	90.450	341.310	6389.84	1123.31	439.50	-2158.66	1666982.61	14334043.58	39°28'21.5649"N	80°54'21.1014"W	2202.95	281.508	0.37	-0.06	-0.37	
9002.00	90.540	343.300	6389.02	1217.27	529.04	-2187.23	1666954.06	14334133.09	39°28'22.4502"N	80°54'21.4645"W	2250.30	283.597	2.12	0.10	2.12	
9097.00	90.450	343.850	6388.20	1312.16	620.16	-2214.09	1666927.21	14334224.17	39°28'23.3511"N	80°54'21.8058"W	2299.30	285.647	0.59	-0.08	0.58	
9192.00	90.350	344.610	6387.54	1406.99	711.58	-2239.91	1666901.40	14334315.56	39°28'24.2549"N	80°54'22.1338"W	2350.22	287.624	0.81	-0.11	0.80	
9287.00	90.260	345.740	6387.03	1501.72	803.42	-2264.22	1666877.10	14334407.35	39°28'25.1628"N	80°54'22.4426"W	2402.53	289.536	1.19	-0.09	1.19	
9382.00	90.290	342.790	6386.58	1596.54	894.85	-2289.98	1666851.35	14334498.75	39°28'26.0667"N	80°54'22.7698"W	2456.61	291.344	3.11	0.03	-3.11	
9477.00	90.200	341.070	6386.17	1691.52	985.16	-2319.44	1666821.90	14334589.02	39°28'26.9595"N	80°54'23.1444"W	2519.99	293.013	1.81	-0.03	-1.81	
9571.00	90.170	339.630	6385.87	1785.51	1073.68	-2351.05	1666790.30	14334677.51	39°28'27.8348"N	80°54'23.5463"W	2584.61	294.545	1.53	-0.03	-1.53	
9666.00	90.380	339.530	6385.41	1880.48	1162.71	-2384.20	1666765.17	14334766.50	39°28'28.7150"N	80°54'23.9678"W	2652.60	295.997	0.24	0.22	-0.11	
9761.00	90.350	340.070	6384.81	1975.47	1251.86	-2417.00	1666724.38	14334855.62	39°28'29.5865"N	80°54'24.3849"W	2721.96	297.381	0.57	-0.03	0.57	
9856.00	90.200	340.510	6384.35	2070.46	1341.30	-2449.04	1666692.36	14334945.02	39°28'30.4807"N	80°54'24.7923"W	2792.29	298.709	0.49	-0.16	0.46	
9951.00	90.020	339.910	6384.17	2165.45	1430.68	-2481.20	1666660.20	14335034.37	39°28'31.3645"N	80°54'25.2013"W	2864.13	299.968	0.66	-0.19	-0.63	
10046.00	90.510	337.420	6383.73	2260.38	1519.17	-2515.76	1666625.66	14335122.82	39°28'32.2394"N	80°54'25.6408"W	2936.86	301.126	2.67	0.52	-2.62	
10141.00	90.850	337.190	6382.60	2355.19	1606.80	-2552.41	1666589.02	14335210.42	39°28'33.1059"N	80°54'26.1071"W	3016.06	302.191	0.43	0.36	-0.24	
10236.00	90.660	339.180	6381.35	2450.07	1694.99	-2587.71	1666553.74	14335298.57	39°28'33.9778"N	80°54'26.5660"W	3093.42	303.225	2.10	-0.20	2.09	
10331.00	90.600	339.420	6380.30	2545.03	1783.85	-2621.29	1666517.17	14335386.39	39°28'34.8564"N	80°54'27.0311"W	3170.69	304.236	0.26	-0.03	0.25	
10425.00	90.720	339.550	6379.22	2639.00	1871.88	-2654.23	1666487.25	14335475.39	39°28'35.7268"N	80°54'27.4020"W	3247.90	305.193	0.19	0.13	0.14	
10520.00	90.690	341.170	6378.05	2733.98	1961.35	-2686.16	1666453.33	14335564.82	39°28'36.6114"N	80°54'27.8060"W	3326.01	306.136	1.71	-0.03	1.71	



Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 1H
Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (174 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
10615.00	90.290	343.910	6377.24	2828.93	2051.96	-2714.66	1666426.84	14335655.39	39°28'37.5072"N	80°54'28.1702"W	3402.92	307.085	2.91	-0.42	2.88	
10710.00	90.350	345.500	6376.71	2923.71	2143.59	-2739.71	1666401.79	14335746.99	39°28'38.4131"N	80°54'28.4886"W	3478.65	308.040	1.67	0.06	1.67	
10804.00	90.110	344.410	6376.33	3017.47	2234.36	-2764.11	1666377.40	14335837.73	39°28'39.3105"N	80°54'28.7886"W	3554.25	308.950	1.19	-0.26	-1.16	
10899.00	90.110	341.420	6376.15	3112.39	2325.16	-2792.02	1666348.51	14335928.49	39°28'40.2082"N	80°54'29.1633"W	3633.42	309.787	3.15	0.00	-3.15	
10994.00	90.290	342.010	6375.82	3207.38	2415.36	-2821.83	1666319.72	14336018.65	39°28'41.1000"N	80°54'29.5322"W	3714.39	310.562	0.65	0.19	0.62	
11088.00	90.050	340.970	6375.54	3301.37	2504.50	-2851.67	1666289.89	14336107.75	39°28'41.9812"N	80°54'29.9116"W	3795.33	311.291	1.14	-0.26	-1.11	
11183.00	90.140	340.940	6375.38	3396.37	2594.30	-2882.67	1666259.90	14336197.52	39°28'42.8691"N	80°54'30.3058"W	3878.16	311.986	0.10	0.08	-0.03	
11278.00	90.050	340.750	6375.22	3491.37	2684.04	-2913.84	1666227.74	14336287.22	39°28'43.7563"N	80°54'30.7022"W	3961.63	312.649	0.22	-0.09	-0.20	
11373.00	90.170	340.870	6375.04	3586.37	2773.76	-2945.07	1666196.53	14336376.91	39°28'44.6434"N	80°54'31.0992"W	4045.63	313.284	0.18	0.13	0.13	
11467.00	90.140	340.940	6374.79	3680.37	2862.59	-2975.82	1666165.79	14336465.70	39°28'45.5216"N	80°54'31.4902"W	4129.15	313.889	0.08	-0.03	0.07	
11562.00	90.230	341.230	6374.48	3775.37	2952.46	-3006.61	1666135.00	14336555.53	39°28'46.4101"N	80°54'31.8818"W	4213.87	314.479	0.32	0.09	0.31	
11657.00	90.260	340.920	6374.07	3870.37	3042.32	-3037.42	1666104.21	14336645.36	39°28'47.2986"N	80°54'32.2736"W	4299.03	315.046	0.33	0.03	-0.33	
11752.00	90.110	341.110	6373.77	3965.37	3132.15	-3068.33	1666073.31	14336735.16	39°28'48.1867"N	80°54'32.6666"W	4384.63	315.590	0.25	-0.16	0.20	
11847.00	90.200	340.850	6373.51	4060.37	3221.96	-3099.29	1666042.36	14336824.93	39°28'49.0747"N	80°54'33.0603"W	4470.64	316.112	0.29	0.09	-0.27	
11941.00	90.230	341.020	6373.16	4154.37	3310.81	-3129.99	1666011.67	14336913.74	39°28'49.9531"N	80°54'33.4507"W	4556.13	316.608	0.18	0.03	0.18	
12036.00	89.950	341.110	6373.01	4249.37	3400.67	-3160.82	1665980.86	14337003.56	39°28'50.8415"N	80°54'33.8427"W	4642.77	317.093	0.31	-0.29	0.09	
12131.00	90.110	340.580	6372.96	4344.37	3490.41	-3191.99	1665949.70	14337093.27	39°28'51.7287"N	80°54'34.2391"W	4729.88	317.567	0.58	0.17	-0.56	
12226.00	90.200	340.780	6372.70	4439.37	3580.06	-3223.48	1665918.28	14337182.88	39°28'52.6151"N	80°54'34.6388"W	4817.39	318.001	0.23	0.09	0.21	
12320.00	90.050	340.630	6372.50	4533.37	3668.78	-3254.48	1665887.23	14337271.57	39°28'53.4923"N	80°54'35.0338"W	4904.24	318.425	0.23	-0.16	-0.16	
12415.00	90.110	340.340	6372.36	4628.36	3758.32	-3286.22	1665855.51	14337361.07	39°28'54.3776"N	80°54'35.4373"W	4992.41	318.834	0.31	0.06	-0.31	
12510.00	90.050	341.130	6372.23	4723.36	3848.00	-3317.56	1665824.18	14337450.72	39°28'55.2642"N	80°54'35.8359"W	5080.68	319.234	0.83	-0.06	0.83	
12604.00	90.200	341.430	6372.03	4817.36	3937.03	-3347.73	1665794.02	14337539.71	39°28'56.1444"N	80°54'36.2196"W	5167.93	319.625	0.36	0.16	0.32	
12699.00	90.050	340.620	6371.82	4912.36	4026.86	-3378.62	1665763.15	14337629.51	39°28'57.0326"N	80°54'36.6124"W	5256.49	320.003	0.87	-0.16	-0.85	
12794.00	90.050	340.220	6371.74	5007.35	4116.37	-3410.46	1665731.32	14337718.98	39°28'57.9175"N	80°54'37.0173"W	5345.62	320.358	0.42	0.00	-0.42	
12889.00	90.140	340.590	6371.58	5102.35	4205.87	-3442.32	1665699.48	14337808.44	39°28'58.8024"N	80°54'37.4224"W	5434.97	320.701	0.40	0.08	0.38	
12984.00	90.200	340.550	6371.30	5197.35	4295.46	-3473.92	1665667.89	14337897.99	39°28'59.6881"N	80°54'37.8244"W	5524.40	321.036	0.08	0.06	-0.04	
13079.00	90.170	340.860	6370.99	5282.35	4385.12	-3505.31	1665636.51	14337987.62	39°29'00.5746"N	80°54'38.2236"W	5613.95	321.362	0.33	-0.03	0.33	
13174.00	89.960	340.690	6370.87	5367.35	4474.82	-3536.59	1665605.24	14338077.29	39°29'01.4615"N	80°54'38.6214"W	5703.64	321.680	0.27	-0.20	-0.18	
13269.00	90.200	341.230	6370.72	5451.35	4563.68	-3567.25	1665574.59	14338166.11	39°29'02.3400"N	80°54'39.0114"W	5792.45	321.987	0.62	0.23	0.57	
13363.00	90.420	340.400	6370.20	5576.35	4653.40	-3598.47	1665543.38	14338255.79	39°29'03.2271"N	80°54'39.4084"W	5882.44	322.285	0.90	0.23	-0.87	

Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 1H
Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (174 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
13457.00	90.230	340.220	6369.67	5670.34	4741.90	-3630.14	1665511.72	14333844.26	39°29'4.1021"N	80°54'39.8112"W	5971.90	322.564	0.28	-0.20	-0.19	
13552.00	90.200	340.520	6369.31	5765.34	4831.38	-3662.06	1665479.82	143338433.70	39°29'4.9867"N	80°54'40.2171"W	6062.42	322.839	0.32	-0.03	0.32	
13647.00	90.350	340.530	6368.86	5860.33	4920.94	-3693.73	1665448.16	143338523.23	39°29'5.8722"N	80°54'40.6199"W	6152.99	323.108	0.16	0.16	0.01	
13742.00	90.420	340.740	6368.22	5955.33	5010.57	-3725.23	1665416.67	143338612.82	39°29'6.7583"N	80°54'41.0206"W	6243.65	323.370	0.23	0.07	0.23	
13837.00	90.290	341.090	6367.63	6050.33	5100.34	-3756.29	1665385.63	143338702.56	39°29'7.6459"N	80°54'41.4196"W	6334.29	323.629	0.39	-0.14	0.37	
13931.00	90.260	340.950	6367.18	6144.33	5189.23	-3786.86	1665355.07	143338791.41	39°29'8.5247"N	80°54'41.8044"W	6424.05	323.880	0.15	-0.03	-0.15	
14026.00	90.320	340.410	6366.70	6239.33	5278.88	-3818.29	1665323.65	143338881.02	39°29'11.1726"N	80°54'42.2041"W	6515.06	324.121	0.57	0.06	-0.57	
14121.00	90.230	340.570	6366.24	6334.32	5368.41	-3850.06	1665291.90	143338970.52	39°29'10.2962"N	80°54'42.6082"W	6606.27	324.353	0.15	-0.09	0.12	
14215.00	90.320	340.600	6365.79	6428.32	5457.05	-3881.34	1665260.62	143339059.12	39°29'11.1726"N	80°54'43.0061"W	6696.58	324.578	0.13	0.10	0.09	
14310.00	90.380	341.080	6365.21	6523.32	5546.79	-3912.52	1665229.46	143339148.82	39°29'12.0598"N	80°54'43.4026"W	6787.83	324.802	0.51	0.06	0.51	
14404.00	90.540	340.750	6364.46	6617.31	5635.62	-3943.26	1665198.73	143339237.62	39°29'12.9380"N	80°54'43.7935"W	6878.19	325.019	0.39	0.17	-0.35	
14499.00	90.380	341.220	6363.70	6712.31	5725.43	-3974.21	1665167.80	143339327.39	39°29'13.8260"N	80°54'44.1872"W	6969.57	325.234	0.52	-0.17	0.49	
14594.00	90.260	340.280	6363.16	6807.31	5815.12	-4005.53	1665136.49	143339417.04	39°29'14.7127"N	80°54'44.5855"W	7061.15	325.440	1.00	-0.13	-0.99	
14688.00	90.420	339.790	6362.61	6901.30	5903.46	-4037.62	1665104.41	143339505.36	39°29'15.5862"N	80°54'44.9938"W	7152.15	325.630	0.55	0.17	-0.52	
14783.00	90.480	340.340	6361.86	6996.28	5992.77	-4070.01	1665072.03	143339594.63	39°29'16.4691"N	80°54'45.4068"W	7244.19	325.817	0.58	0.06	0.58	
14878.00	90.420	340.810	6361.11	7091.28	6082.36	-4101.61	1665040.45	143339684.18	39°29'17.3549"N	80°54'45.8076"W	7336.09	326.006	0.50	-0.06	0.48	
14973.00	90.380	340.580	6360.45	7186.28	6172.01	-4133.01	1665009.06	143339773.80	39°29'18.2413"N	80°54'46.2071"W	7428.03	326.192	0.25	-0.04	-0.24	
15067.00	90.380	340.710	6359.83	7280.27	6260.70	-4164.17	1664977.92	143339862.45	39°29'19.1181"N	80°54'46.6033"W	7519.08	326.371	0.14	0.00	0.14	
15162.00	90.420	340.480	6359.16	7375.27	6350.30	-4195.73	1664946.37	143339952.01	39°29'20.0039"N	80°54'47.0048"W	7611.21	326.547	0.25	0.04	-0.24	
15257.00	90.480	340.380	6358.42	7470.27	6439.80	-4227.56	1664914.54	143400041.48	39°29'20.8888"N	80°54'47.4098"W	7703.47	326.716	0.14	0.06	-0.13	
15351.00	90.630	340.420	6357.51	7564.26	6528.35	-4259.11	1664883.01	143400129.99	39°29'21.7643"N	80°54'47.8110"W	7794.83	326.879	0.17	0.16	0.06	
15446.00	90.450	340.180	6356.61	7659.25	6617.78	-4291.13	1664851.00	143400219.39	39°29'22.6485"N	80°54'48.2184"W	7887.26	327.040	0.32	-0.19	-0.23	
15523.00	90.390	340.920	6356.05	7736.25	6690.39	-4316.77	1664828.37	143400291.96	39°29'23.3663"N	80°54'48.5445"W	7982.15	327.169	0.96	-0.08	0.96	
15548.00	90.390	340.920	6355.88	7761.25	6714.01	-4324.94	1664817.20	143400315.58	39°29'23.5999"N	80°54'48.6485"W	7986.43	327.212	0.00	0.00	0.00	Projected MD at TD: 15548'



Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 1H
Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

HOLE & CASING SECTIONS - Ref Wellbores: Fender Unit 1H AWB Ref Wellpath: Fender Unit 1H AWP Proj: 15548'

String/Diameter	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start N/S (ft)	Start E/W (ft)	End N/S (ft)	End E/W (ft)
16in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	-0.28	0.03
13.5in Open Hole	105.50	590.30	484.80	105.50	590.28	-0.28	0.03	-4.26	0.50
10.75in Casing Surface	25.50	590.30	564.80	25.50	590.28	0.00	0.00	-4.26	0.50
9.875in Open Hole	590.30	2738.00	2147.70	590.28	2607.51	-4.26	0.50	-562.68	-371.64
7.625in Casing Intermediate	25.50	2707.80	2682.30	25.50	2579.28	0.00	0.00	-552.80	-367.41
6.75in Open Hole	2738.00	15548.00	12810.00	2607.51	6355.88	-562.68	-371.64	6714.01	-4324.94
5in Casing Production	25.50	15522.50	15522.50	25.50	6355.88	0.00	0.00	6714.01	-4324.94

TARGETS

Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Fender Unit 1H POE Rev-1	6382.00	-1318.96	-1523.88	1667617.14	14332285.83	39°28'4.1787"N	80°54'13.0308"W	point
Fender Unit 1H BHL Rev-1	6419.00	6658.13	-4293.34	1664848.79	14340259.72	39°29'23.0473"N	80°54'48.2461"W	point
Fender Unit 1H LP Rev-1	6419.00	-1104.31	-1598.41	1667542.64	14332500.39	39°28'6.3010"N	80°54'13.9782"W	point
Fender Unit 1H - 50' L/R Hardline	6500.00	2669.59	-2908.62	1666232.96	14336272.78	39°28'43.6134"N	80°54'30.6357"W	rectangle

2D Rectangle 8448.16 x 100.

Actual Wellpath Report

Fender Unit 1H AWP Proj: 15548'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #01
Well	Fender Unit 1H
API	47-095-02670-0000
Wellbore	Fender Unit 1H AWB

WELLPATH COMPOSITION - Ref Wellbore: Fender Unit 1H AWB Ref Wellpath: Fender Unit 1H AWP Proj: 15548'					
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	565.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <13-172> (100'-565')	Fender Unit 1H AWB	3/8/2020
565.00	2657.00	BH NaviTrak (2019) (Axial)	02 APS EM <9-7/8> (565')(689'-2657')	Fender Unit 1H AWB	3/8/2020
2657.00	5703.00	BH NaviTrak (2019) (Axial)	03 APS EM <6-3/4> (2657')(2763'-5703')	Fender Unit 1H AWB	3/8/2020
5703.00	15548.00	BH AutoTrak Curve (2019) (Short spacing)	04 AutoTrak X-Gen <6-3/4> (5703')(5780'-15523')	Fender Unit 1H AWB	3/8/2020



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 1H
Field	Tyler	API	47-095-02670-0000
Facility	Hogue Pad	Wellbore	Fender Unit 1H AWB
Slot	Slot #01		

COMMENTS
<p>Wellpath general comments</p> <p>API: 47-095-02670-0000</p> <p>BHI Job #: 110313767A</p> <p>Rig: H&P 317</p> <p>Duration: 03/08/2020-03/19/2020</p> <p>Gyrodatta MS Gyro <13-1/2"> (100'-565')</p> <p>APS EM <9-7/8"> (565')(689'-2657')</p> <p>APS EM <6-3/4"> (2657')(2763'-5703')</p> <p>AutoTrak X-Gen <6-3/4"> (5703')(5780'-15523')</p> <p>Middlesex: 6753' MD</p> <p>Burkett: 6914' MD</p> <p>Tully: 6963' MD</p> <p>Marcellus POE: 7050' MD</p> <p>Projected MD at TD: 15548'</p>