

ANTERO RESOURCES CORPORATION

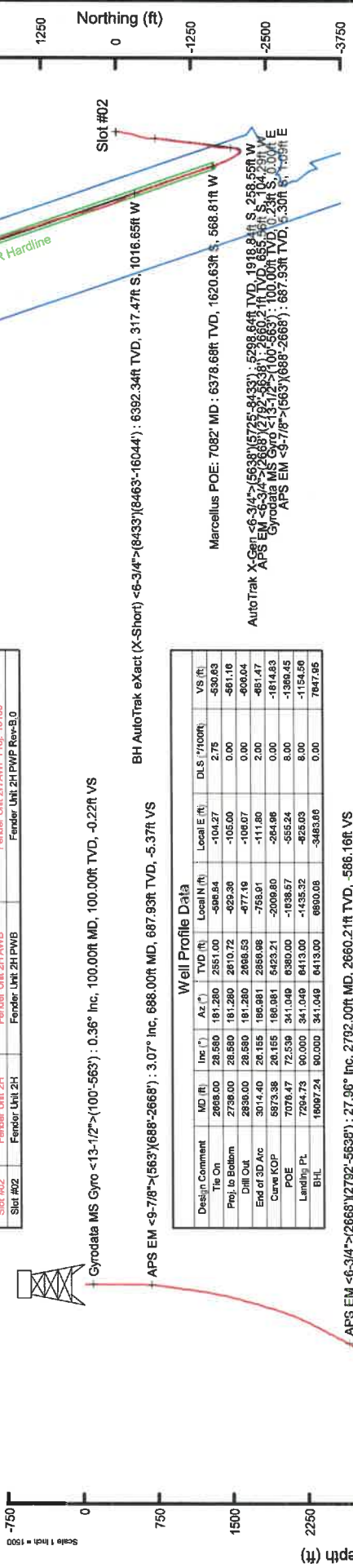
Location: Tyler County, WV
 Field: Tyler
 Facility: Hogue Pad

Slot: Slot #02
 Well: Fender Unit 2H
 Wellbore: Fender Unit 2H PWB

Post reference depths in Fender Unit 2H PWB Rev-B	Grid System: NAD83 UTM Zone 17 North, US feet
This vertical depths are referenced to H&P 317 (R&B)	North Reference: Grid north
Reference weights measured depths are referenced to H&P 317 (R&B)	Scale: True distance
H&P 317 (R&B) to Mean Sea Level: 1000 feet	Coordinate use in file: referenced to Slot
Mean Sea Level to Ground level (At Slot #02): -1014.6 feet	Depth use in file:
Other weights, MDA are referenced to mean profile about MD station	Created by: released on 2020/04/02; Database: WVA_WPL_Electromag_Data

Location Information			
Facility Name	Hogue Pad	Grid North (US ft)	Longitude
Slot #02	10.94	14333094.250	80°59'53.6510"W
H&P 317 (R&B) to Ground level (At Slot #02)	10.16	14333015.160	80°59'53.6510"W
Mean Sea Level to Ground level (At Slot #02)	-1014.6 ft		
H&P 317 (R&B) to Mean Sea Level			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	Fender Unit 2H	Fender Unit 2H AWB	Fender Unit 2H AWB Prof: 16130'
Slot #02	Fender Unit 2H	Fender Unit 2H PWB	Fender Unit 2H PWB Rev-B-0



Gyrodatta MS Gyro <13.12>(100.563) : 0.36° Inc, 100.00ft MD, 100.00ft TVD, -0.22ft VS

APS EM <9-7/8>(663)(688-2668) : 3.07° Inc, 688.00ft MD, 687.93ft TVD, -5.37ft VS

Well Profile Data						
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local E (ft)	VS (ft)
The On	2668.00	28.580	181.260	2610.72	-104.27	2.75
Proj. to Bottom	2736.00	28.580	181.260	2688.53	-105.07	0.00
Drill Out	2836.00	28.155	182.981	2859.98	-111.80	2.00
End of 3D Arc	3014.40	26.155	182.981	3000.80	-284.96	0.00
Curve KOP	6873.38	26.155	182.981	6423.21	-2009.80	0.00
POE	7076.47	72.539	341.049	6380.00	-1038.57	8.00
Landing Pt.	7294.73	90.000	341.049	6413.00	-1435.32	8.00
BHL	16897.24	90.000	341.049	6413.00	-3483.06	0.00

AutoTrak X-Gen <6-3/4>(6638)(5725-8433) : 24.62° Inc, 5725.00ft MD, 5298.64ft TVD, -1730.88ft VS

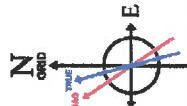
Marcellus POE: 7082' MD : 74.34° Inc, 7082.00ft MD, 6378.68ft TVD, -1348.08ft VS

BH AutoTrak eExact (X-Short) <6-3/4>(8463)(16044) : 91.08° Inc, 8463.00ft MD, 6392.34ft TVD, 29.89ft VS

Projected MD at TD: 16130' : 89.86° Inc, 16130.00ft MD, 6385.94ft TVD, 7685.10ft VS

Vertical Section (ft)

Azimuth 341.05° with reference 0.00 N, 0.00 E



User specified (HDGM) Dip: 66.47° Field: 51741 nT
 Magnetic North is 7.60 degrees West of True North (at 3/20/2020)
 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 7.66 degrees

04/02/2021



Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 2H
Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWB
Slot	Slot #02		

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	4/2/2020 at 6:29:04 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	10.94	10.18	1669150.59	14333615.19	39°28'17.3060"N	80°53'53.4510"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 #02)	
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
			341.05°

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION	
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Field	Tyler
Facility	Hogue Pad
Slot	Slot #02
Well	Fender Unit 2H
API	47-095-02671-0000
Wellbore	Fender Unit 2H AWB

WELLPATH DATA (185 stations) † = interpolated, ‡ = extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
0.00	0.00	179.070	0.00	0.00	0.00	0.00	1669150.59	14333615.19	39°28'17.3060"N	80°53'53.4510"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	179.070	25.50	0.00	0.00	0.00	1669150.59	14333615.19	39°28'17.3060"N	80°53'53.4510"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.360	179.070	100.00	-0.22	-0.23	0.00	1669150.59	14333614.96	39°28'17.3037"N	80°53'53.4510"W	0.23	179.070	0.48	0.48	0.00	Gyrodatta MS Gyro <13-1/2">(100-563)
150.00	0.380	178.260	150.00	-0.53	-0.56	0.01	1669150.60	14333614.64	39°28'17.3005"N	80°53'53.4509"W	0.56	178.829	0.04	0.04	0.04	-1.62
200.00	0.390	184.550	200.00	-0.84	-0.89	0.00	1669150.59	14333614.30	39°28'17.2972"N	80°53'53.4510"W	0.89	179.813	0.09	0.02	12.58	
250.00	0.290	186.200	250.00	-1.12	-1.19	-0.02	1669150.56	14333614.01	39°28'17.2943"N	80°53'53.4513"W	1.19	181.170	0.20	-0.20	3.30	
300.00	0.190	142.340	300.00	-1.31	-1.38	0.01	1669150.65	14333613.82	39°28'17.2924"N	80°53'53.4509"W	1.38	179.471	0.40	-0.20	-87.72	
350.00	0.140	178.450	350.00	-1.45	-1.51	0.07	1669150.65	14333613.69	39°28'17.2911"N	80°53'53.4502"W	1.51	177.527	0.23	-0.10	72.22	
400.00	0.070	161.030	400.00	-1.53	-1.60	0.08	1669150.67	14333613.60	39°28'17.2902"N	80°53'53.4500"W	1.60	177.251	0.15	-0.14	-34.84	
450.00	0.160	158.430	450.00	-1.63	-1.69	0.11	1669150.70	14333613.50	39°28'17.2893"N	80°53'53.4496"W	1.69	176.200	0.18	0.18	-5.20	
500.00	0.150	158.330	500.00	-1.77	-1.82	0.16	1669150.75	14333613.38	39°28'17.2881"N	80°53'53.4490"W	1.82	174.898	0.02	-0.02	-0.20	
550.00	0.160	126.110	550.00	-1.89	-1.91	0.24	1669150.83	14333613.28	39°28'17.2871"N	80°53'53.4476"W	1.93	172.882	0.17	0.00	-64.44	
583.00	3.070	168.350	687.93	-5.37	-5.30	1.09	1669151.68	14333609.89	39°28'17.2638"N	80°53'53.4371"W	5.41	168.338	2.37	2.33	38.02	APS EM <9-7/8">1563'(688-2668)
778.00	6.780	170.780	777.59	-13.00	-12.91	2.43	1669153.02	14333602.29	39°28'17.1784"N	80°53'53.4202"W	13.14	169.328	4.13	4.12	2.70	
869.00	8.170	181.280	867.81	-24.36	-24.68	3.15	1669153.74	14333590.53	39°28'17.0621"N	80°53'53.4112"W	24.88	172.728	2.14	1.53	11.54	
961.00	9.050	185.230	958.78	-37.10	-38.42	2.34	1669152.93	14333576.79	39°28'16.9263"N	80°53'53.4217"W	38.49	176.509	1.15	0.96	4.29	
1056.00	8.690	185.220	1052.64	-50.46	-53.01	1.01	1669151.60	14333562.21	39°28'16.7821"N	80°53'53.4389"W	53.02	178.909	0.38	-0.38	-0.01	
1151.00	8.480	176.580	1146.58	-63.76	-67.15	0.77	1669151.36	14333548.07	39°28'16.6424"N	80°53'53.4421"W	67.15	179.339	1.37	-0.22	-9.09	
1246.00	10.070	184.450	1240.34	-78.13	-82.42	0.55	1669151.14	14333532.81	39°28'16.4914"N	80°53'53.4452"W	82.42	179.619	2.14	1.67	8.28	
1340.00	12.630	187.750	1332.49	-94.86	-100.80	-1.48	1669149.11	14333514.43	39°28'16.3098"N	80°53'53.4713"W	100.81	180.839	2.81	2.72	3.51	
1435.00	13.640	192.320	1425.01	-113.71	-122.03	-5.27	1669145.32	14333493.21	39°28'16.0999"N	80°53'53.5199"W	122.15	182.471	1.52	1.06	4.81	
1530.00	16.310	193.730	1516.78	-134.52	-145.94	-10.82	1669139.77	14333469.31	39°28'15.8637"N	80°53'53.5911"W	146.34	184.242	2.84	2.81	1.48	
1624.00	17.570	190.420	1606.70	-157.99	-172.72	-16.52	1669134.07	14333442.54	39°28'15.5997"N	80°53'53.6642"W	173.51	185.465	1.69	1.34	-3.52	
1719.00	17.640	186.650	1697.25	-183.47	-201.12	-20.78	1669129.81	14333414.15	39°28'15.3185"N	80°53'53.7189"W	202.19	185.900	1.20	0.07	-3.97	
1814.00	17.550	185.170	1787.81	-209.52	-229.68	-23.74	1669126.86	14333385.60	39°28'15.0362"N	80°53'53.7570"W	230.91	185.901	0.48	-0.09	-1.56	
1908.00	18.440	187.730	1878.16	-238.02	-258.84	-27.05	1669123.55	14333366.46	39°28'14.7481"N	80°53'53.7997"W	260.25	185.967	1.25	0.94	2.69	
2004.00	21.910	195.900	1967.34	-264.01	-290.79	-33.93	1669116.67	14333334.52	39°28'14.4324"N	80°53'53.8879"W	292.76	186.656	4.70	3.65	8.60	
2099.00	25.800	200.860	2054.21	-294.45	-327.17	-46.16	1669104.45	14333298.16	39°28'14.0730"N	80°53'54.0443"W	330.41	188.030	4.60	4.03	5.22	
2193.00	28.250	198.810	2137.94	-327.76	-367.35	-60.62	1669090.00	14333247.99	39°28'13.6760"N	80°53'54.2292"W	372.32	189.370	2.79	2.61	-2.18	

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Field	Tyler
Facility	Hogue Pad
Slot	Slot #02
Well	Fender Unit 2H
API	47-095-02671-0000
Wellbore	Fender Unit 2H AWB

WELLPATH DATA (185 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)	Buidl Rate (1/100ft)	Turn Rate (1/100ft)	Comments
2288.00	28.910	195.890	2221.37	-364.38	-410.72	-74.15	1669076.47	14333204.64	39°28'13.2475"N	80°53'54.4025"W	417.36	190.234	1.63	0.69	-3.07	
2383.00	29.840	192.750	2304.16	-403.34	-455.86	-85.66	1669064.97	14333159.51	39°28'12.8015"N	80°53'54.5498"W	483.84	190.642	1.89	0.98	-3.31	
2478.00	31.010	189.300	2386.08	-445.01	-503.07	-94.83	1669054.80	14333112.33	39°28'12.3350"N	80°53'54.6674"W	511.93	190.675	2.21	1.23	-3.63	
2573.00	29.760	186.060	2468.04	-487.94	-550.67	-101.27	1669049.36	14333064.75	39°28'11.8646"N	80°53'54.7503"W	559.90	190.421	2.17	-1.32	-3.41	
2668.00	28.580	181.280	2551.00	-530.63	-596.84	-104.27	1669046.36	14333018.59	39°28'11.4083"N	80°53'54.7892"W	605.88	189.910	2.75	-1.24	-5.03	
2792.00	27.960	178.730	2660.21	-586.16	-635.56	-106.70	1669043.93	14332959.90	39°28'10.8280"N	80°53'54.7903"W	663.80	189.039	1.09	-0.50	-2.06	APS EM <6-3/4> 2668 (2792-5638)
2887.00	27.810	187.520	2744.22	-627.23	-699.81	-106.70	1669043.93	14332915.66	39°28'10.3907"N	80°53'54.8216"W	707.90	188.669	4.33	-0.16	9.25	
2982.00	27.150	185.310	2828.50	-666.84	-743.37	-111.60	1669039.03	14332872.13	39°28'9.9603"N	80°53'54.8848"W	751.70	188.538	1.28	-0.69	-2.33	
3076.00	27.210	191.130	2912.14	-704.99	-785.82	-117.74	1669032.90	14332829.69	39°28'9.5408"N	80°53'54.9636"W	794.59	188.521	2.83	0.06	6.19	
3171.00	26.910	187.990	2996.74	-742.95	-828.42	-124.92	1669025.72	14332787.41	39°28'9.1198"N	80°53'55.0558"W	837.78	188.575	1.54	-0.32	-3.31	
3266.00	28.530	188.390	3080.84	-782.27	-872.15	-131.22	1669019.42	14332743.39	39°28'8.6876"N	80°53'55.1367"W	881.97	188.556	1.72	1.71	0.42	
3361.00	27.440	183.900	3164.74	-822.60	-916.44	-136.02	1669014.63	14332699.12	39°28'8.2499"N	80°53'55.1986"W	926.48	188.442	2.50	-1.15	-4.73	
3455.00	26.260	189.080	3248.61	-860.92	-958.59	-140.77	1669009.87	14332656.98	39°28'7.8334"N	80°53'55.2598"W	968.87	188.354	2.79	-1.26	5.51	
3555.00	27.860	185.740	3337.67	-901.69	-1003.69	-146.60	1669004.05	14332611.90	39°28'7.3877"N	80°53'55.3348"W	1014.34	188.310	2.21	1.60	-3.34	
3650.00	25.830	185.080	3422.43	-940.76	-1046.40	-150.65	1668999.99	14332569.22	39°28'6.9657"N	80°53'55.3871"W	1057.19	188.193	2.16	-2.14	-0.63	
3744.00	26.830	186.920	3506.67	-978.55	-1087.86	-155.02	1668995.63	14332527.77	39°28'6.5560"N	80°53'55.4434"W	1098.85	188.110	1.37	1.06	1.96	
3839.00	26.850	190.350	3591.45	-1016.56	-1130.25	-161.46	1668989.19	14332485.40	39°28'6.1371"N	80°53'55.5261"W	1141.72	188.130	1.63	0.02	3.61	
3933.00	25.510	188.730	3675.80	-1052.99	-1171.14	-168.35	1668982.31	14332444.53	39°28'5.7331"N	80°53'55.6145"W	1183.18	188.180	1.62	-1.43	-1.72	
4028.00	27.900	187.120	3760.66	-1091.08	-1213.42	-174.21	1668976.45	14332402.26	39°28'5.3152"N	80°53'55.6898"W	1225.86	188.170	2.63	2.52	-1.69	
4123.00	26.260	184.570	3845.25	-1130.32	-1256.42	-178.64	1668972.02	14332359.27	39°28'4.8902"N	80°53'55.7469"W	1269.06	188.092	2.11	-1.73	-2.68	
4218.00	24.470	184.980	3931.09	-1167.58	-1296.98	-182.02	1668968.64	14332318.73	39°28'4.4894"N	80°53'55.7906"W	1309.69	187.989	1.89	-1.88	0.43	
4313.00	26.090	183.660	4016.99	-1204.85	-1337.43	-185.06	1668965.60	14332278.90	39°28'4.0897"N	80°53'55.8300"W	1350.18	187.878	1.81	1.71	-1.39	
4408.00	26.880	186.400	4102.02	-1243.54	-1379.62	-188.79	1668961.87	14332238.12	39°28'3.6727"N	80°53'55.8781"W	1392.48	187.792	1.53	0.83	2.88	
4502.00	25.310	190.650	4186.44	-1280.22	-1420.49	-194.87	1668955.79	14332195.27	39°28'3.2688"N	80°53'55.9563"W	1433.80	187.812	2.60	-1.67	4.52	
4597.00	26.670	190.920	4271.83	-1316.37	-1461.39	-202.67	1668948.00	14332154.39	39°28'2.8648"N	80°53'56.0562"W	1475.37	187.895	1.44	1.43	0.28	
4691.00	28.550	190.870	4355.12	-1354.16	-1504.17	-210.90	1668939.77	14332111.63	39°28'2.4421"N	80°53'56.1618"W	1518.88	187.981	2.00	2.00	-0.05	
4786.00	28.760	193.000	4438.49	-1393.24	-1548.73	-220.32	1668930.36	14332067.09	39°28'2.0017"N	80°53'56.2826"W	1564.32	188.097	1.10	0.22	2.24	
4881.00	28.900	194.530	4521.72	-1431.78	-1593.22	-231.22	1668919.46	14332022.61	39°28'1.5621"N	80°53'56.4222"W	1609.91	188.258	0.79	0.15	1.61	
4975.00	26.960	190.640	4604.77	-1469.26	-1636.16	-240.86	1668909.83	14331979.69	39°28'1.1379"N	80°53'56.5457"W	1653.79	188.374	2.83	-2.06	-4.14	
5070.00	25.060	186.200	4690.15	-1506.21	-1677.33	-247.01	1668903.68	14331938.53	39°28'0.7310"N	80°53'56.6247"W	1696.42	188.377	2.86	-2.00	-4.57	

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION

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Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWB
Slot	Slot #02		

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MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
5165.00	22.980	182.920	4776.93	-1541.64	-1715.86	-250.13	1668900.56	14331900.02	39°28'0.3502"N	80°53'56.6650"W	1733.99	2.60	-2.19	-3.45	
5260.00	19.830	179.080	4865.37	-1574.18	-1750.50	-250.81	1668899.88	14331865.39	39°28'0.0079"N	80°53'56.6742"W	1768.38	3.63	-3.32	-4.04	
5354.00	20.900	181.490	4953.49	-1605.05	-1783.21	-250.99	1668899.70	14331832.70	39°27'59.6846"N	80°53'56.6770"W	1800.78	1.45	1.14	2.56	
5449.00	22.240	183.160	5041.84	-1637.59	-1818.10	-252.42	1668898.27	14331797.82	39°27'59.3398"N	80°53'56.6957"W	1835.54	1.55	1.41	1.76	
5544.00	19.820	180.600	5130.51	-1669.43	-1852.16	-253.58	1668897.11	14331763.78	39°27'59.0032"N	80°53'56.7110"W	1869.44	2.72	-2.55	-2.69	
5638.00	21.280	186.410	5218.53	-1699.86	-1885.05	-255.65	1668895.04	14331730.90	39°27'58.6781"N	80°53'56.7379"W	1902.31	2.67	1.55	6.18	
5725.00	24.620	183.580	5298.64	-1730.88	-1918.84	-258.55	1668892.14	14331697.13	39°27'58.3442"N	80°53'56.7753"W	1936.18	4.04	3.84	-3.25	AutoTrak X-Gen <6-3/4">[5638,56725-8433']
5779.00	28.430	185.140	5346.94	-1753.01	-1942.88	-260.40	1668890.29	14331673.10	39°27'58.1067"N	80°53'56.7993"W	1960.25	7.17	7.06	2.89	
5874.00	27.890	190.680	5430.71	-1792.98	-1987.24	-266.55	1668884.15	14331628.75	39°27'57.6683"N	80°53'56.8783"W	2005.04	2.81	-0.57	5.83	
5969.00	21.160	206.040	5517.18	-1824.49	-2024.56	-278.22	1668872.48	14331591.44	39°27'57.2995"N	80°53'57.0276"W	2043.59	9.71	-7.08	16.17	
6064.00	15.450	211.350	5607.34	-1844.71	-2050.80	-292.34	1668858.36	14331565.22	39°27'57.0404"N	80°53'57.2081"W	2071.53	6.26	-6.01	5.59	
6158.00	9.870	246.270	5699.15	-1853.40	-2064.76	-306.26	1668844.45	14331551.26	39°27'56.9025"N	80°53'57.3857"W	2087.35	9.82	-5.94	37.15	
6253.00	12.240	283.870	5792.49	-1848.61	-2065.63	-323.52	1668827.20	14331550.40	39°27'56.8942"N	80°53'57.6057"W	2090.81	7.82	2.49	39.58	
6347.00	16.270	306.360	5883.65	-1832.37	-2055.42	-343.82	1668806.91	14331560.60	39°27'56.9953"N	80°53'57.8645"W	2083.98	7.21	4.29	23.93	
6442.00	22.790	317.820	5973.17	-1804.48	-2033.86	-366.92	1668783.81	14331582.15	39°27'57.2086"N	80°53'58.1587"W	2066.70	7.93	6.86	12.06	
6537.00	27.680	324.270	6059.09	-1766.41	-2002.29	-392.18	1668758.56	14331613.71	39°27'57.5209"N	80°53'58.4804"W	2040.34	5.90	5.15	6.79	
6632.00	36.490	332.700	6139.54	-1717.22	-1959.17	-418.09	1668732.67	14331656.81	39°27'57.9473"N	80°53'58.8101"W	2003.29	10.38	9.27	8.87	
6727.00	44.690	333.950	6211.62	-1656.02	-1903.96	-445.76	1668705.01	14331711.99	39°27'58.4933"N	80°53'59.1621"W	1955.45	8.67	8.63	1.32	
6762.00†	48.682	334.697	6235.63	-1630.73	-1881.01	-456.79	1668693.96	14331794.93	39°27'58.7202"N	80°53'59.3024"W	1935.68	11.51	11.41	2.13	Middlesex: 6762' MD
6821.00	55.420	335.770	6271.89	-1594.47	-1838.79	-476.25	1668674.53	14331777.14	39°27'59.1378"N	80°53'59.5499"W	1899.46	11.51	11.42	1.82	
6867.00	60.390	336.100	6296.33	-1545.67	-1803.21	-492.13	1668658.66	14331812.70	39°27'59.4896"N	80°53'59.7520"W	1869.16	10.82	10.80	0.72	
6916.00	63.910	336.240	6319.21	-1502.51	-1763.59	-509.63	1668641.16	14331852.31	39°27'59.8814"N	80°53'59.9745"W	1835.75	7.19	7.18	0.29	
6963.00	64.800	336.285	6323.99	-1492.63	-1754.52	-513.62	1668637.17	14331861.38	39°27'59.9711"N	80°54'0.0253"W	1828.15	6.33	6.32	0.41	Burkett: 6927' MD
6993.00†	67.967	336.855	6346.46	-1441.51	-1707.50	-534.10	1668616.70	14331908.38	39°28'0.4360"N	80°54'0.2858"W	1789.08	6.33	6.32	0.40	
7011.00	69.490	337.440	6356.62	-1415.48	-1683.46	-544.24	1668606.57	14331932.41	39°28'0.6737"N	80°54'0.4146"W	1769.24	5.78	5.43	2.13	Tully: 6983' MD
7058.00	72.850	338.950	6371.86	-1371.08	-1642.18	-560.74	1668590.07	14331973.67	39°28'1.0818"N	80°54'0.6245"W	1735.28	7.38	6.72	3.21	
7082.00†	74.338	339.989	6378.68	-1348.08	-1620.63	-568.81	1668582.01	14331995.21	39°28'1.2949"N	80°54'0.7271"W	1717.56	8.16	7.03	4.33	Marcellus POE: 7082' MD
7106.00	76.030	341.010	6384.82	-1324.88	-1598.76	-576.55	1668574.27	14332017.07	39°28'1.5111"N	80°54'0.8255"W	1699.55	8.16	7.05	4.26	
7201.00	82.960	344.100	6402.13	-1231.58	-1509.71	-604.51	1668546.32	14332106.09	39°28'2.3916"N	80°54'1.1807"W	1626.24	7.96	7.29	3.25	

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 2H
Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWP
Slot	Slot #02		

WELLPATH DATA (185 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
7296.00	89.520	343.070	8408.36	1136.93	1418.83	-631.29	1668519.56	14332196.93	39°28'3.2901"N	80°54'1.5209"W	1552.93	203.986	6.99	6.91	-1.08	
7390.00	91.030	339.080	8407.91	1042.95	1329.93	-661.77	1668489.09	14332285.79	39°28'4.1690"N	80°54'1.9082"W	1485.48	206.455	4.54	1.61	-4.24	
7485.00	91.370	340.640	8405.92	-947.99	1240.76	-694.47	1668456.40	14332374.93	39°28'5.0507"N	80°54'2.3240"W	1421.89	209.236	1.68	0.36	1.64	
7580.00	91.030	340.730	8403.93	-863.02	1151.13	-725.88	1668425.00	14332464.52	39°28'5.9369"N	80°54'2.7233"W	1360.89	212.235	0.37	-0.36	0.09	
7675.00	90.750	341.150	8402.45	-758.03	1061.35	-756.90	1668393.99	14332554.27	39°28'6.8246"N	80°54'3.1175"W	1303.60	215.495	0.53	-0.29	0.44	
7770.00	90.720	340.340	8401.23	-683.04	971.67	-788.23	1668362.68	14332643.91	39°28'7.7112"N	80°54'3.5157"W	1251.18	219.049	0.85	-0.03	-0.85	
7864.00	90.820	340.910	8399.97	-569.05	883.01	-819.41	1668331.51	14332732.54	39°28'8.5879"N	80°54'3.9121"W	1204.63	222.861	0.62	-0.11	0.61	
7959.00	90.630	340.350	8398.77	-474.06	793.39	-850.92	1668300.01	14332822.12	39°28'9.4740"N	80°54'4.3126"W	1163.41	227.004	0.62	-0.20	-0.59	
8054.00	90.820	340.970	8397.62	-379.07	703.76	-882.37	1668268.57	14332911.72	39°28'10.3602"N	80°54'4.7124"W	1128.65	231.425	0.66	0.13	0.65	
8149.00	90.750	340.370	8396.38	-284.08	614.12	-913.82	1668237.14	14333001.32	39°28'11.2464"N	80°54'5.1121"W	1101.00	236.097	0.63	0.00	-0.63	
8243.00	90.820	340.890	8395.09	-190.09	525.45	-944.99	1668205.98	14333089.95	39°28'12.0108"N	80°54'5.5084"W	1081.25	240.924	0.56	0.07	0.55	
8338.00	90.480	340.980	8394.01	-95.10	435.67	-976.02	1668174.96	14333179.70	39°28'13.0108"N	80°54'5.9028"W	1068.84	245.945	0.37	-0.36	0.09	
8433.00	90.910	341.100	8392.86	-0.11	345.83	1006.88	1668144.11	14333269.50	39°28'13.8991"N	80°54'6.2951"W	1064.62	251.044	0.47	0.45	0.13	
8463.00	91.080	340.880	8392.34	29.89	317.47	1016.65	1668134.34	14333297.85	39°28'14.1795"N	80°54'6.4193"W	1066.07	252.658	0.93	0.57	-0.73	EH AutoTrak eXact (X-Short) -6-3/4">(8433)-(8463)-16044)
8558.00	89.970	336.410	8391.47	124.77	-229.02	-1051.24	1668099.77	14333386.27	39°28'15.0540"N	80°54'6.8591"W	1075.89	257.710	4.85	-1.17	-4.71	
8653.00	90.060	331.970	8391.45	219.07	-143.52	-1092.59	1668058.44	14333471.73	39°28'15.8995"N	80°54'7.3852"W	1101.97	262.517	4.67	0.09	-4.67	
8748.00	89.940	332.160	8391.45	312.91	-59.59	-1137.09	1668013.95	14333555.63	39°28'16.7295"N	80°54'7.9515"W	1138.65	267.000	0.24	-0.13	0.20	
8843.00	89.970	338.440	8391.52	407.38	26.68	-1176.77	1667974.29	14333641.86	39°28'17.5825"N	80°54'8.4563"W	1177.07	271.299	6.61	0.03	6.61	
8937.00	90.490	341.300	8391.14	501.35	114.93	1209.12	1667941.96	14333730.07	39°28'18.4551"N	80°54'8.8675"W	1214.57	275.430	3.09	0.55	3.04	
9032.00	90.520	339.620	8390.31	596.34	204.45	1240.89	1667910.20	14333819.56	39°28'19.3402"N	80°54'9.2714"W	1257.62	279.356	1.77	0.03	-1.77	
9127.00	90.430	343.450	8389.52	691.31	294.54	1270.97	1667880.13	14333909.61	39°28'20.2309"N	80°54'9.6538"W	1304.65	283.048	4.03	-0.09	4.03	
9222.00	90.490	349.070	8388.75	785.88	386.78	1293.53	1667857.58	14334001.82	39°28'21.1428"N	80°54'9.9401"W	1350.11	286.647	5.92	0.06	5.92	
9317.00	90.180	350.600	8388.20	879.76	480.28	1310.29	1667840.82	14334095.28	39°28'22.0671"N	80°54'10.1526"W	1395.54	290.130	1.64	-0.33	1.61	
9411.00	90.150	344.820	8387.93	973.09	572.09	1330.29	1667820.83	14334187.05	39°28'22.9747"N	80°54'10.4064"W	1448.09	293.270	6.15	-0.03	-6.15	
9506.00	90.120	341.610	8387.70	1068.01	663.03	1357.72	1667793.41	14334277.96	39°28'23.8738"N	80°54'10.7549"W	1510.97	296.028	3.38	-0.03	-3.38	
9601.00	89.970	345.580	8387.63	1162.89	754.14	1384.55	1667766.60	14334369.04	39°28'24.7746"N	80°54'11.0957"W	1576.61	298.577	4.18	-0.16	4.18	
9696.00	90.000	347.010	8387.65	1257.49	846.44	1407.05	1667744.10	14334461.29	39°28'25.6870"N	80°54'11.3815"W	1642.03	301.030	1.51	0.03	1.51	
9791.00	90.030	344.040	8387.63	1352.19	938.41	1430.80	1667720.37	14334553.23	39°28'26.5963"N	80°54'11.6830"W	1711.08	303.259	3.13	0.03	-3.13	
9886.00	90.030	341.330	8387.58	1447.14	1029.10	1459.07	1667692.11	14334643.88	39°28'27.4929"N	80°54'12.0423"W	1785.48	305.196	2.85	0.00	-2.85	
9981.00	89.850	342.420	8387.68	1542.13	1119.38	1488.62	1667662.56	14334734.13	39°28'28.3855"N	80°54'12.4179"W	1862.53	306.942	1.16	-0.19	1.15	

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 2H
Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (185 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
10076.00	90.180	338.820	6387.65	1637.11	1208.93	-1520.30	1667630.90	14334823.64	39°28'29.2708"N	80°54'12.8206"W	1942.37	308.491	4.02	0.35	-4.00	
10171.00	90.120	339.230	6387.41	1732.05	1297.57	-1554.46	1667596.75	14334912.25	39°28'30.1473"N	80°54'13.2550"W	2024.85	309.853	0.85	-0.06	0.64	
10266.00	90.060	344.110	6387.26	1827.01	1387.72	-1584.32	1667566.90	14335002.36	39°28'31.0366"N	80°54'13.6347"W	2106.15	311.215	5.14	-0.06	0.14	
10360.00	90.250	344.930	6387.00	1920.84	1478.31	-1609.41	1667541.82	14335092.91	39°28'31.9342"N	80°54'13.9534"W	2185.32	312.569	0.90	0.20	0.87	
10455.00	90.060	342.670	6386.74	2016.72	1569.54	-1635.92	1667515.33	14335184.10	39°28'32.8361"N	80°54'14.2901"W	2267.08	313.874	2.39	-0.20	-2.38	
10550.00	90.060	341.550	6386.65	2110.70	1659.94	-1665.10	1667486.16	14335274.47	39°28'33.7299"N	80°54'14.6610"W	2351.16	314.911	1.18	0.00	-1.18	
10644.00	90.120	340.570	6386.50	2204.70	1748.85	-1695.61	1667455.66	14335363.34	39°28'34.6090"N	80°54'15.0489"W	2435.89	315.886	1.04	0.06	-1.04	
10739.00	90.000	338.920	6386.40	2299.67	1837.97	-1728.50	1667422.79	14335452.43	39°28'35.4901"N	80°54'15.4671"W	2523.06	316.758	1.74	-0.13	-1.74	
10834.00	90.090	335.970	6386.32	2394.48	1925.70	-1764.93	1667386.37	14335540.12	39°28'36.3575"N	80°54'15.9305"W	2612.14	317.494	3.11	0.03	-3.11	
10929.00	90.060	338.070	6386.20	2489.24	2013.15	-1802.02	1667349.29	14335627.54	39°28'37.2223"N	80°54'16.4023"W	2701.86	318.168	2.21	-0.03	-2.21	
11023.00	90.090	341.350	6386.08	2583.20	2101.31	-1834.61	1667316.71	14335715.66	39°28'38.0939"N	80°54'16.8167"W	2789.50	318.876	3.49	0.03	3.49	
11118.00	90.090	345.590	6385.93	2678.09	2192.36	-1861.63	1667289.70	14335806.67	39°28'38.9941"N	80°54'17.1601"W	2876.13	319.664	4.46	0.00	4.46	
11213.00	90.060	346.950	6385.80	2772.69	2284.64	-1884.18	1667267.16	14335898.92	39°28'39.9064"N	80°54'17.4464"W	2961.37	320.487	1.43	-0.03	1.43	
11307.00	90.090	345.410	6385.68	2866.32	2375.92	-1906.63	1667244.72	14335990.16	39°28'40.8087"N	80°54'17.7315"W	3046.35	321.254	1.64	0.03	-1.64	
11402.00	90.060	341.530	6385.56	2961.21	2466.98	-1933.66	1667217.71	14336081.18	39°28'41.7090"N	80°54'18.0749"W	3134.49	321.910	4.08	-0.03	-4.08	
11497.00	90.090	336.820	6385.43	3056.13	2555.74	-1967.42	1667183.96	14336169.91	39°28'42.5867"N	80°54'18.5043"W	3225.30	322.411	4.96	0.03	-4.96	
11592.00	89.940	339.550	6385.41	3151.01	2643.93	-2002.72	1667148.67	14336258.07	39°28'43.4586"N	80°54'18.9533"W	3316.82	322.857	2.88	-0.16	2.87	
11687.00	90.030	341.510	6385.43	3246.00	2733.50	-2034.38	1667117.02	14336347.59	39°28'44.3441"N	80°54'19.3559"W	3407.45	323.342	2.07	0.08	2.06	
11781.00	90.000	338.670	6385.41	3339.98	2821.87	-2066.39	1667085.02	14336435.93	39°28'45.2179"N	80°54'19.7629"W	3497.56	323.785	3.02	-0.03	-3.02	
11876.00	89.940	337.740	6385.46	3434.86	2910.08	-2101.66	1667049.77	14336524.10	39°28'46.0901"N	80°54'20.2116"W	3589.64	324.163	0.98	-0.06	-0.98	
11971.00	90.090	338.850	6385.43	3529.75	2998.34	-2136.80	1667014.65	14336612.33	39°28'46.9628"N	80°54'20.6585"W	3681.84	324.524	1.18	0.16	1.17	
12066.00	89.940	340.530	6385.41	3624.72	3087.43	-2169.77	1666981.69	14336701.38	39°28'47.8436"N	80°54'21.0778"W	3773.61	324.901	1.78	-0.16	1.77	
12160.00	89.970	341.330	6385.48	3718.71	3176.27	-2200.48	1666950.99	14336790.19	39°28'48.7220"N	80°54'21.4663"W	3864.04	325.286	0.85	0.03	0.85	
12255.00	89.940	340.120	6385.55	3813.71	3265.94	-2231.84	1666919.64	14336879.83	39°28'49.6086"N	80°54'21.8670"W	3955.69	325.653	1.27	-0.03	-1.27	
12350.00	89.970	338.600	6385.63	3908.67	3354.84	-2265.33	1666886.17	14336968.89	39°28'50.4875"N	80°54'22.2929"W	4048.05	325.971	1.60	0.03	-1.60	
12445.00	90.000	338.170	6385.65	4003.56	3443.84	-2300.32	1666851.19	14337056.97	39°28'51.3608"N	80°54'22.7380"W	4140.88	326.254	0.45	0.03	-0.45	
12540.00	90.000	338.360	6385.65	4098.45	3531.41	-2335.50	1666816.02	14337145.19	39°28'52.2333"N	80°54'23.1855"W	4233.84	326.521	0.20	0.00	0.20	
12635.00	89.940	338.140	6385.70	4193.34	3619.65	-2370.71	1666780.83	14337233.39	39°28'53.1058"N	80°54'23.6333"W	4326.90	326.777	0.24	-0.06	-0.23	
12730.00	89.970	340.430	6385.78	4288.29	3708.50	-2404.31	1666747.25	14337322.20	39°28'53.9843"N	80°54'24.0606"W	4419.69	327.044	2.41	0.03	2.41	
12824.00	90.030	342.120	6385.78	4382.28	3797.52	-2434.48	1666717.08	14337411.19	39°28'54.8644"N	80°54'24.4443"W	4510.86	327.337	1.80	0.06	1.80	

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 2H
Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (185 stations)

ID	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(°)	(°)	(ft)	(°)	("/100ft)	("/100ft)	(°/100ft)	
12919.00	90.000	343.500	6385.75	4477.24	3888.27	-2462.56	1666689.02	14337501.91	39°28'55.7617"N	80°54'24.8012"W	4602.48	327.653	1.45	-0.03	1.45	
13014.00	90.030	343.240	6385.73	4572.16	3979.30	-2489.75	1666661.84	14337592.90	39°28'56.6616"N	80°54'26.1467"W	4694.00	327.987	0.28	0.03	-0.27	
13108.00	90.120	344.980	6385.61	4666.02	4069.70	-2515.48	1666636.12	14337683.27	39°28'57.5554"N	80°54'25.4737"W	4784.36	328.280	1.85	0.10	1.85	
13203.00	90.120	344.280	6385.41	4760.83	4161.31	-2540.66	1666610.95	14337774.83	39°28'58.4609"N	80°54'25.7937"W	4875.59	328.594	0.74	0.00	-0.74	
13298.00	89.970	344.490	6385.33	4855.78	4252.09	-2568.62	1666583.00	14337865.58	39°28'59.3595"N	80°54'26.1490"W	4967.70	328.865	2.94	-0.16	-2.94	
13392.00	89.970	338.890	6385.38	4949.76	4340.52	-2600.47	1666551.16	14337953.97	39°29'0.2328"N	80°54'26.5541"W	5059.90	329.074	2.77	0.00	-2.77	
13487.00	90.120	340.810	6385.31	5044.73	4429.70	-2633.19	1666518.45	14338043.12	39°29'1.1445"N	80°54'26.9703"W	5153.25	329.271	2.03	0.16	2.02	
13582.00	89.940	341.520	6385.26	5139.73	4519.61	-2663.86	1666487.79	14338132.99	39°29'2.0035"N	80°54'27.3602"W	5246.24	329.485	0.77	-0.19	0.75	
13677.00	90.090	341.040	6385.23	5234.73	4609.59	-2694.35	1666457.32	14338222.32	39°29'2.8930"N	80°54'27.7479"W	5339.27	329.693	0.53	0.16	-0.51	
13771.00	90.030	343.610	6385.13	5328.70	4699.14	-2722.89	1666428.79	14338312.45	39°29'3.7784"N	80°54'28.1107"W	5431.03	329.910	2.73	-0.06	2.73	
13866.00	90.090	347.280	6385.03	5423.40	4791.08	-2746.76	1666404.93	14338404.35	39°29'4.6873"N	80°54'28.4140"W	5522.60	330.174	3.86	0.06	3.86	
13961.00	90.060	343.650	6384.91	5518.11	4883.02	-2770.60	1666381.10	14338496.26	39°29'5.5963"N	80°54'28.7168"W	5614.28	330.430	3.82	-0.03	-3.82	
14055.00	90.060	340.440	6384.81	5612.08	4972.43	-2799.57	1666352.14	14338585.63	39°29'6.4802"N	80°54'29.0852"W	5706.37	330.620	3.41	0.00	-3.41	
14150.00	90.030	340.060	6384.74	5707.07	5061.84	-2831.67	1666320.05	14338675.01	39°29'7.3643"N	80°54'29.4934"W	5800.06	330.777	0.40	-0.03	-0.40	
14244.00	90.030	339.330	6384.69	5801.04	5150.00	-2864.29	1666287.44	14338763.13	39°29'8.2359"N	80°54'29.9083"W	5892.94	330.918	0.78	0.00	-0.78	
14339.00	90.000	335.890	6384.66	5895.86	5237.83	-2900.48	1666251.28	14338850.92	39°29'9.1043"N	80°54'30.3686"W	5987.28	331.024	3.62	-0.03	-3.62	
14434.00	90.000	335.180	6384.66	5990.42	5324.30	-2939.82	1666211.95	14338937.35	39°29'9.9593"N	80°54'30.8693"W	6081.99	331.095	0.75	0.00	-0.75	
14529.00	90.030	337.270	6384.64	6085.07	5411.23	-2978.11	1666173.67	14339024.25	39°29'10.8188"N	80°54'31.3566"W	6176.61	331.173	2.20	0.03	2.20	
14623.00	90.090	338.840	6384.54	6178.94	5498.42	-3013.24	1666138.55	14339111.40	39°29'11.6809"N	80°54'31.8035"W	6269.94	331.276	1.67	0.06	1.67	
14718.00	90.120	340.130	6384.37	6273.91	5587.39	-3046.54	1666105.28	14339200.34	39°29'12.5606"N	80°54'32.2270"W	6363.98	331.398	1.36	0.03	1.36	
14813.00	90.060	341.310	6384.22	6368.90	5677.06	-3077.90	1666073.92	14339289.98	39°29'13.4471"N	80°54'32.6259"W	6457.75	331.535	1.24	-0.06	1.24	
14907.00	90.030	344.110	6384.14	6462.85	5766.80	-3105.84	1666046.00	14339379.88	39°29'14.3344"N	80°54'32.9811"W	6549.98	331.694	2.98	-0.03	2.98	
15002.00	90.030	342.120	6384.09	6557.79	5857.70	-3133.43	1666018.42	14339470.55	39°29'15.2331"N	80°54'33.3318"W	6643.12	331.857	2.09	0.00	-2.09	
15097.00	90.030	341.020	6384.04	6652.78	5947.83	-3163.46	1665988.40	14339560.64	39°29'16.1241"N	80°54'33.7137"W	6736.78	331.993	1.16	0.00	-1.16	
15191.00	90.030	339.880	6383.99	6746.78	6036.41	-3194.92	1665955.95	14339649.18	39°29'16.9999"N	80°54'34.1138"W	6829.77	332.109	1.21	0.00	-1.21	
15286.00	90.090	341.500	6383.89	6841.77	6126.06	-3226.33	1665925.55	14339738.80	39°29'17.8863"N	80°54'34.5133"W	6923.71	332.226	1.71	0.06	1.71	
15381.00	90.090	342.340	6383.74	6936.76	6216.37	-3255.81	1665896.08	14339829.07	39°29'18.7791"N	80°54'34.8882"W	7017.38	332.357	0.88	0.00	0.88	
15475.00	89.910	343.630	6383.74	7030.70	6306.25	-3283.32	1665868.59	14339918.92	39°29'19.6677"N	80°54'35.2378"W	7109.78	332.496	1.39	-0.19	1.37	
15570.00	89.910	343.190	6383.89	7125.62	6397.30	-3310.44	1665841.47	14340009.93	39°29'20.5678"N	80°54'35.5826"W	7203.09	332.640	0.46	0.00	-0.46	
15665.00	89.970	343.660	6383.99	7220.54	6486.35	-3337.54	1665814.38	14340100.94	39°29'21.4660"N	80°54'35.9271"W	7296.43	332.779	0.50	0.06	0.49	



Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION			Well	Fender Unit 2H
Field	Tyler			API	47-095-02671-0000
Facility	Hogue Pad			Wellbore	Fender Unit 2H AWB
Slot	Slot #02				

WELLPATH DATA (185 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
15760.00	90.00	344.60	6384.02	7315.40	6579.73	-3363.52	1665788.42	14340192.28	39°29'22.3714"N	80°54'36.2573"W	7389.59	332.924	0.99	0.03	0.93	
15854.00	89.69	344.88	6384.27	7409.21	6670.41	-3388.26	1665763.69	14340282.93	39°29'23.2679"N	80°54'36.5717"W	7481.63	333.072	0.44	-0.33	0.30	
15949.00	89.63	340.99	6384.84	7504.13	6761.21	-3416.13	1665735.82	14340373.69	39°29'24.1656"N	80°54'36.9261"W	7575.22	333.195	4.10	-0.08	-4.03	
16044.00	89.66	339.71	6385.42	7599.12	6850.68	-3448.08	1665703.89	14340463.12	39°29'25.0501"N	80°54'37.3324"W	7669.48	333.283	1.35	0.03	-1.35	
16130.00 ‡	89.66	339.71	6385.94	7685.10	6931.34	-3477.90	1665674.08	14340543.75	39°29'25.8476"N	80°54'37.7118"W	7754.95	333.354	0.00	0.00	0.00	Protected MD at TD: 16130'

HOLE & CASING SECTIONS - Ref Wellbore: Fender Unit 2H AWB Ref Wellpath: Fender Unit 2H AWP Proj: 16130'

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)
16in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	-0.27	0.00	0.00
13.5in Open Hole	105.50	600.70	495.20	105.50	600.69	-0.27	-2.28	0.00	0.41
10.75in Casing Surface	25.50	600.70	575.20	25.50	600.69	0.00	-2.28	0.00	0.41
9.875in Open Hole	600.70	2736.00	2135.30	600.69	2610.81	-2.28	0.41	0.41	-104.60
7.625in Casing Intermediate	25.50	2722.10	2696.60	25.50	2598.57	0.00	-622.60	0.00	-104.60
6.75in Open Hole	2736.00	16130.00	13394.00	2610.81	6385.94	-629.19	6931.34	-104.60	-3477.90
5in Casing Production	25.50	16130.00	16104.50	25.50	6385.94	0.00	6931.34	0.00	-3477.90

Actual Wellpath Report

Fender Unit 2H AWP Proj: 16130*
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 2H
Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWB
Slot	Slot #02		

TARGETS

Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Fender Unit 2H - POE - Rev-2	6380.00	-1638.57	-555.24	1668595.57	14331977.28	39°28'1.1175"N	80°54'0.5543"W	point
Fender Unit 2H - BHL - Rev-2	6413.00	6890.09	-3483.66	1665668.33	14340502.51	39°29'25.4999"N	80°54'37.7857"W	point
Fender Unit 2H - LP - Rev-2	6413.00	-1435.32	-625.03	1668525.81	14332180.45	39°28'3.1270"N	80°54'1.4413"W	point
Fender Unit 2H - 50' L/R Hardline	6450.00	2625.75	-2019.45	1667131.95	14336239.89	39°28'43.2791"N	80°54'19.1669"W	rectangle
2D Rectangle 9020.76 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Fender Unit 2H AWB Ref Wellpath: Fender Unit 2H AWP Proj: 16130*

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	563.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <13-1/2">(100'-563')	Fender Unit 2H AWB	3/6/2020
563.00	2668.00	BH NavITrak (2019) (Axial)	02 APS EM <9-7/8">(688'-2668')	Fender Unit 2H AWB	3/6/2020
2668.00	5638.00	BH NavITrak (2019) (Axial)	03 APS EM <6-3/4">(2668')(2792'-5638')	Fender Unit 2H AWB	3/6/2020
5638.00	8433.00	BH AutoTrak Curve (2019) (Short spacing)	04 AutoTrak X-Gen <6-3/4">(5638')(5725'-8433')	Fender Unit 2H AWB	3/6/2020
8433.00	16130.00	BH AutoTrak G3/GT4eXact (2019) (X Short spacing)	05 BH AutoTrak eXact (X-Short) <6-3/4">(8433')(8463'-16044')	Fender Unit 2H AWB	3/26/2020



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fender Unit 2H
Field	Tyler	API	47-095-02671-0000
Facility	Hogue Pad	Wellbore	Fender Unit 2H AWB
Slot	Slot #02		

COMMENTS
<p>Wellpath general comments API: 47-095-02671-0000 BHI Job #: 110313779B Rig: H&P 317 Duration: 03/07/2020-03/27/2020 Gyrodatta MS Gyro <13'-1/2">(100'-563') APS EM <9-7/8">(563')(688'-2668') APS EM <6-3/4">(2668')(2792'-5638') AutoTrak X-Gen <6-3/4">(5638')(5725'-8433') BH AutoTrak exAct (X-Short) <6-3/4">(8433')(8463'-16044') Middlesex: 6762' MD Burkett: 6927' MD Tully: 6983' MD Marcellus POE: 7082' MD Projected MD at TD: 16130'</p>