



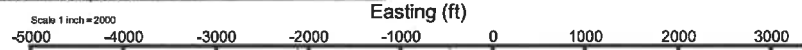
# ANTERO RESOURCES CORPORATION



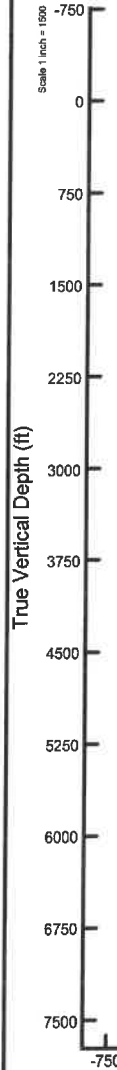
Location: Doddridge Co., WV  
Field: Doddridge  
Facility: Peggy June Pad

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

Plot reference wellpath in Fraley Unit 2H PWB Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid North
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1305 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot #02) = 1275 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edasayan on 2021-02-23 Database: WV_MPL_EASTERMANUS_3m



Location Information					
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Peggy June Pad		1712149.550	14272437.300	39°18'11.5750"N	80°44'47.1230"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #02	3.86	-29.81	1712119.750	14272441.250	39°18'11.6140"N
Comment		Fraley Unit 2H			
H&P 519 (RKB) to Ground level (At Slot #02)				30R	
Mean Sea Level to Ground level (At Slot #02)				-1275R	
H&P 519 (RKB) to Mean Sea Level				1305R	



Gyrodatta MS Gyro <17-1/2"> (100'-479') : 0.40° Inc, 115.00ft MD, 115.00ft TVD, 0.12ft VS  
 Gyrodatta MS Gyro <12-1/4"> (479')(571'-663') : 1.32° Inc, 586.00ft MD, 585.97ft TVD, -1.16ft VS  
 Premier MWD <12-1/4"> (663')(772'-2505') : 3.54° Inc, 787.00ft MD, 786.82ft TVD, -7.91ft VS

API: 47-017-06897-0000  
 BH Job #: 110695232  
 Rig: H&P 519  
 Duration: 2/15/2021-2/19/2021

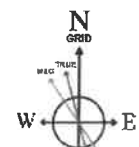
Premier MWD <8-3/4"> (2505')(2641'-6051') : 4.96° Inc, 2656.00ft MD, 2651.06ft TVD, -47.77ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	8066.00	9.410	118.480	6023.97	-347.93	381.95	1.88	-448.82
Proj. to Bottom	6132.00	9.410	118.480	6089.08	-353.08	391.44	0.00	-454.58
End of 3D Arc	6490.80	13.405	2.498	6443.79	-325.28	419.28	5.42	-436.44
Build/Avoid No-Go	6608.31	30.000	0.000	6636.10	-248.74	420.34	8.00	-383.80
POE	7208.83	68.904	342.465	6663.00	121.80	345.39	8.00	12.11
Landing PL	7472.53	90.000	342.465	7011.00	367.80	267.72	8.00	266.89
BHL @ 1.0 SF	15943.00	90.000	342.465	7011.00	8444.49	-2284.29	0.00	8740.38

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #02	Fraley Unit 2H	Fraley Unit 2H AWB	Fraley Unit 2H AWP Proj: 15888'
Slot #02	Fraley Unit 2H	Fraley Unit 2H PWB	Fraley Unit 2H PWP Rev-A.0

BH AT Curve <8-1/2"> (6066')(6078'-15863') : 9.50° Inc, 6078.00ft MD, 6035.81ft TVD, -448.24ft VS  
 Marcellus POE: 7223' MD : 69.91° Inc, 7223.00ft MD, 6955.34ft TVD, 59.49ft VS

Projected MD at TD: 15888' : 89.45° Inc, 15888.00ft MD, 7061.48ft TVD, 8715.50ft VS



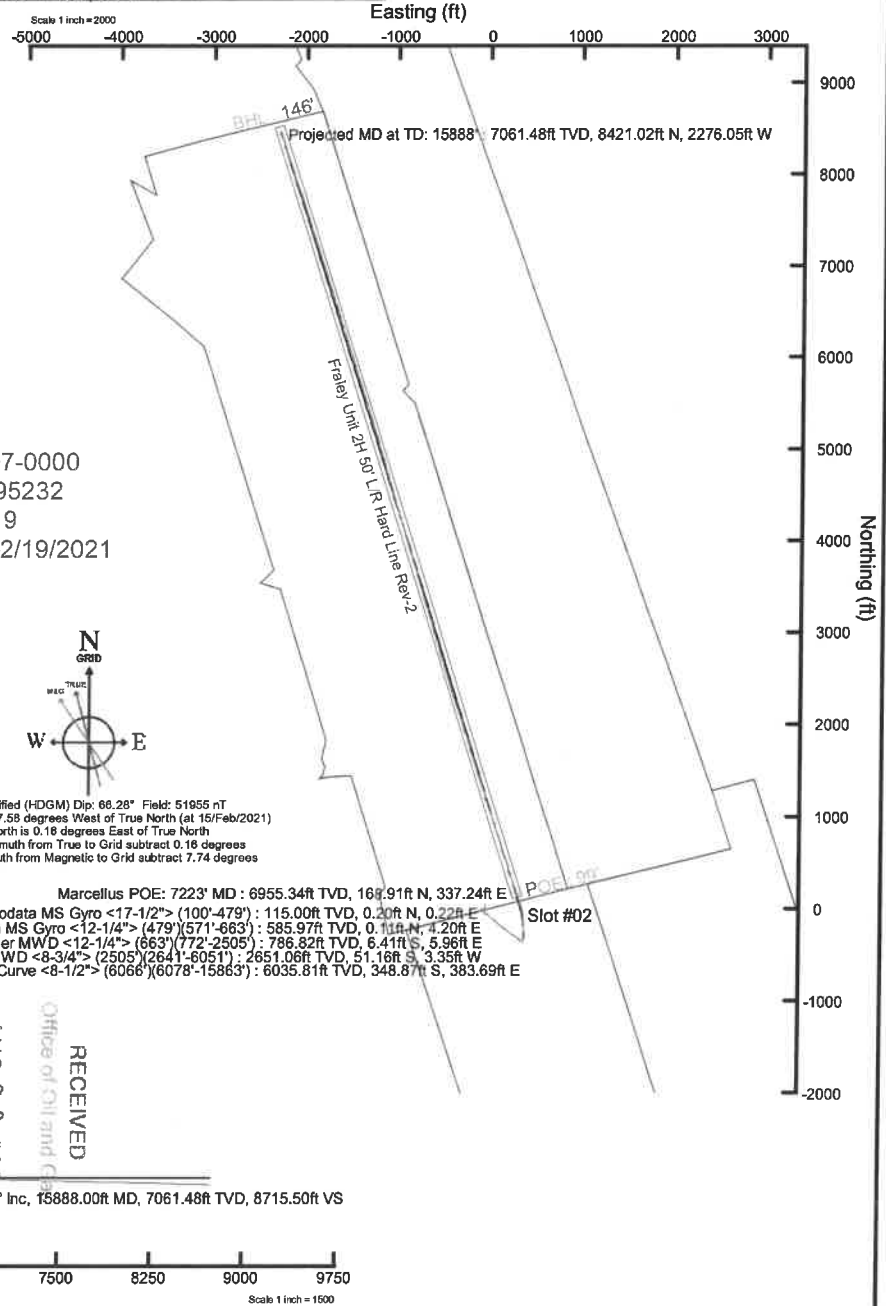
User specified (HDGM) Dip: 66.28° Field: 51955 nT  
 Magnetic North is 7.58 degrees West of True North (at 15/Feb/2021)  
 Grid North is 0.18 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.18 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.74 degrees

Marcellus POE: 7223' MD : 6955.34ft TVD, 169.91ft N, 337.24ft E  
 Gyrodatta MS Gyro <17-1/2"> (100'-479') : 115.00ft TVD, 0.20ft N, 0.22ft E  
 Gyrodatta MS Gyro <12-1/4"> (479')(571'-663') : 585.97ft TVD, 0.11ft N, 4.20ft E  
 Premier MWD <12-1/4"> (663')(772'-2505') : 786.82ft TVD, 6.41ft S, 5.96ft E  
 Premier MWD <8-3/4"> (2505')(2641'-6051') : 2651.06ft TVD, 51.16ft S, 3.35ft W  
 BH AT Curve <8-1/2"> (6066')(6078'-15863') : 6035.81ft TVD, 348.87ft S, 383.69ft E

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Vertical Section (ft)  
 Azimuth 342.47° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley 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	Edsaryar
Scale	0.999606	Report Generated	23/Feb/2021 at 20:57
Convergence at slot	0.16° 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	3.86	-29.81	1712119.75	14272441.25	39°18'11.6140"N	80°44'47.5021"W
Facility Reference Pt			1712149.55	14272437.39	39°18'11.5750"N	80°44'47.1230"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 519 (RKB) to Facility Vertical Datum	1305.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1305.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #02)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	342.47°

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# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 stations) † = interpolated, ‡ = extrapolated station																
MD	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]	
0.00	0.00	47.910	0.00	0.00	0.00	0.00	1712119.75	14272441.25	39°18'11.6140"N	80°44'47.5021"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	47.910	30.00	0.00	0.00	0.00	1712119.75	14272441.25	39°18'11.6140"N	80°44'47.5021"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.400	47.910	115.00	0.12	0.20	0.22	1712119.97	14272441.45	39°18'11.6159"N	80°44'47.4992"W	0.30	47.910	0.47	0.47	0.00	Gyrodata MS Gyro <17-1/2"> (100'-479')
140.00	0.490	43.490	140.00	0.21	0.33	0.36	1712120.11	14272441.58	39°18'11.6173"N	80°44'47.4975"W	0.49	46.948	0.39	0.36	-17.68	
165.00	0.460	47.620	165.00	0.31	0.48	0.51	1712120.26	14272441.73	39°18'11.6187"N	80°44'47.4956"W	0.70	46.515	0.18	-0.12	16.52	
190.00	0.460	49.910	190.00	0.39	0.61	0.66	1712120.41	14272441.86	39°18'11.6200"N	80°44'47.4937"W	0.90	47.018	0.07	0.00	9.16	
215.00	0.390	64.500	215.00	0.44	0.71	0.81	1712120.56	14272441.96	39°18'11.6210"N	80°44'47.4917"W	1.08	48.642	0.51	-0.28	58.36	
240.00	0.370	71.050	240.00	0.45	0.78	0.96	1712120.71	14272442.03	39°18'11.6216"N	80°44'47.4898"W	1.24	51.144	0.19	-0.08	26.20	
265.00	0.260	107.270	265.00	0.42	0.79	1.09	1712120.84	14272442.04	39°18'11.6217"N	80°44'47.4881"W	1.35	54.317	0.89	-0.44	144.88	
290.00	0.250	105.330	290.00	0.36	0.75	1.20	1712120.95	14272442.00	39°18'11.6214"N	80°44'47.4867"W	1.42	57.860	0.05	-0.04	-7.76	
315.00	0.210	103.400	314.99	0.30	0.73	1.30	1712121.05	14272441.98	39°18'11.6211"N	80°44'47.4855"W	1.49	60.666	0.16	-0.16	-7.72	
340.00	0.280	98.490	339.99	0.25	0.71	1.40	1712121.15	14272441.96	39°18'11.6209"N	80°44'47.4842"W	1.57	63.164	0.29	0.28	-19.64	
365.00	0.240	99.070	364.99	0.20	0.69	1.52	1712121.26	14272441.94	39°18'11.6208"N	80°44'47.4828"W	1.67	65.435	0.16	-0.16	2.32	
390.00	0.340	100.200	389.99	0.15	0.67	1.64	1712121.39	14272441.92	39°18'11.6205"N	80°44'47.4812"W	1.77	67.741	0.40	0.40	4.52	
415.00	0.380	87.980	414.99	0.09	0.66	1.80	1712121.55	14272441.91	39°18'11.6204"N	80°44'47.4792"W	1.91	69.792	0.35	0.16	-48.88	
440.00	0.500	97.400	439.99	0.02	0.65	1.99	1712121.74	14272441.90	39°18'11.6203"N	80°44'47.4768"W	2.09	71.887	0.56	0.48	37.68	
465.00	0.600	97.710	464.99	-0.08	0.62	2.22	1712121.97	14272441.87	39°18'11.6200"N	80°44'47.4737"W	2.31	74.468	0.40	0.40	1.24	
490.00	0.770	97.200	489.99	-0.21	0.58	2.52	1712122.27	14272441.83	39°18'11.6196"N	80°44'47.4700"W	2.59	77.051	0.68	0.68	-2.04	
494.00	0.800	97.120	493.99	-0.23	0.57	2.58	1712122.32	14272441.82	39°18'11.6195"N	80°44'47.4693"W	2.64	77.460	0.75	0.75	-2.00	
586.00	1.320	111.240	585.97	-1.16	0.11	4.20	1712123.95	14272441.36	39°18'11.6149"N	80°44'47.4486"W	4.20	88.508	0.63	0.57	15.35	Gyrodata MS Gyro <12-1/4"> (479')(571'-663')
678.00	1.900	150.110	677.94	-3.31	-1.60	5.95	1712125.70	14272439.65	39°18'11.5980"N	80°44'47.4264"W	6.16	105.027	1.31	0.63	42.25	
787.00	3.540	195.300	786.82	-7.91	-6.41	5.96	1712125.71	14272434.84	39°18'11.5504"N	80°44'47.4265"W	8.75	137.080	2.37	1.50	41.46	Premier MWD <12-1/4"> (663')(772'-2505')
879.00	4.850	206.610	878.58	-13.09	-12.63	3.47	1712123.22	14272428.63	39°18'11.4891"N	80°44'47.4584"W	13.10	164.637	1.68	1.42	12.29	
975.00	5.370	204.300	974.20	-19.35	-20.35	-0.20	1712119.55	14272420.91	39°18'11.4128"N	80°44'47.5053"W	20.35	180.555	0.58	0.54	-2.41	
1070.00	5.670	197.600	1068.76	-26.50	-28.87	-3.45	1712116.31	14272412.39	39°18'11.3287"N	80°44'47.5469"W	29.08	186.805	0.75	0.32	-7.05	
1164.00	6.480	190.180	1162.23	-34.99	-38.52	-5.79	1712113.97	14272402.74	39°18'11.2334"N	80°44'47.5770"W	38.95	188.544	1.20	0.86	-7.89	
1259.00	6.320	180.450	1256.64	-44.71	-49.03	-6.78	1712112.98	14272392.24	39°18'11.1296"N	80°44'47.5900"W	49.49	187.869	1.15	-0.17	-10.24	
1354.00	4.570	166.790	1351.21	-53.46	-57.94	-5.95	1712113.80	14272383.33	39°18'11.0414"N	80°44'47.5798"W	58.25	185.865	2.28	-1.84	-14.38	
1449.00	3.220	144.870	1445.99	-59.78	-63.81	-3.55	1712116.20	14272377.47	39°18'10.9834"N	80°44'47.5495"W	63.91	183.186	2.09	-1.42	-23.07	
1543.00	1.950	133.280	1539.90	-63.69	-67.06	-0.87	1712118.88	14272374.21	39°18'10.9511"N	80°44'47.5155"W	67.07	180.741	1.45	-1.35	-12.33	

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# Actual Wellpath Report

Fralely Unit 2H AWP Proj: 15888'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fralely Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fralely Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 stations)																
MD	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]	
1638.00	0.950	109.800	1634.87	-65.58	-68.44	1.05	1712120.80	14272372.84	39°18'10.9375"N	80°44'47.4911"W	68.45	179.121	1.20	-1.05	-24.72	
1733.00	1.170	59.880	1729.85	-65.84	-68.22	2.63	1712122.38	14272373.06	39°18'10.9396"N	80°44'47.4710"W	68.27	177.792	0.96	0.23	-52.55	
1827.00	2.670	15.950	1823.80	-63.81	-65.63	4.06	1712123.81	14272375.64	39°18'10.9652"N	80°44'47.4527"W	65.76	176.459	2.13	1.60	-46.73	
1922.00	3.810	20.800	1918.65	-59.49	-60.55	5.79	1712125.54	14272380.72	39°18'11.0153"N	80°44'47.4305"W	60.83	174.537	1.23	1.20	5.11	
2017.00	3.810	13.610	2013.44	-54.31	-54.54	7.65	1712127.40	14272386.74	39°18'11.0747"N	80°44'47.4066"W	55.07	172.011	0.50	0.00	-7.57	
2112.00	4.170	357.980	2108.21	-48.28	-48.02	8.28	1712128.02	14272393.25	39°18'11.1392"N	80°44'47.3985"W	48.72	170.222	1.20	0.38	-16.45	
2206.00	4.750	346.830	2201.93	-41.10	-40.81	7.27	1712127.02	14272400.46	39°18'11.2104"N	80°44'47.4111"W	41.45	169.902	1.11	0.62	-11.86	
2301.00	2.850	289.310	2296.74	-35.76	-36.20	4.14	1712123.89	14272405.07	39°18'11.2561"N	80°44'47.4507"W	36.43	173.473	4.23	-2.00	-60.55	
2396.00	3.470	248.710	2391.61	-34.54	-36.46	-0.77	1712118.98	14272404.80	39°18'11.2536"N	80°44'47.5131"W	36.47	181.205	2.39	0.65	-42.74	
2491.00	3.320	203.010	2486.46	-36.82	-40.04	-4.52	1712115.23	14272401.23	39°18'11.2184"N	80°44'47.5610"W	40.29	186.443	2.78	-0.16	-48.11	
2520.00	3.240	180.090	2515.41	-38.24	-41.63	-4.85	1712114.90	14272399.64	39°18'11.2026"N	80°44'47.5652"W	41.91	186.646	4.50	-0.28	-79.03	
2656.00	4.960	165.100	2651.06	-47.77	-51.16	-3.35	1712116.41	14272390.11	39°18'11.1084"N	80°44'47.5464"W	51.27	183.741	1.48	1.26	-11.02	Premier MWD <8-3/4"> (2505')(2641'-6051')
2750.00	1.320	135.460	2744.91	-52.80	-55.86	-1.54	1712118.21	14272385.42	39°18'11.0619"N	80°44'47.5236"W	55.88	181.579	4.11	-3.87	-31.53	
2845.00	2.440	84.260	2839.87	-54.19	-56.43	1.24	1712120.99	14272384.84	39°18'11.0561"N	80°44'47.4883"W	56.45	178.742	2.01	1.18	-53.89	
2940.00	4.840	103.930	2934.67	-56.69	-57.20	7.14	1712126.89	14272384.08	39°18'11.0484"N	80°44'47.4132"W	57.64	172.882	2.81	2.53	20.71	
3034.00	7.390	114.290	3028.13	-62.79	-60.64	16.50	1712136.25	14272380.64	39°18'11.0142"N	80°44'47.2943"W	62.84	164.775	2.95	2.71	11.02	
3129.00	8.900	124.220	3122.17	-72.64	-67.29	28.15	1712147.89	14272373.99	39°18'10.9481"N	80°44'47.1464"W	72.94	157.297	2.17	1.59	10.45	
3223.00	9.660	129.980	3214.94	-85.00	-76.44	40.21	1712159.94	14272364.84	39°18'10.8573"N	80°44'46.9933"W	86.37	152.257	1.28	0.81	6.13	
3318.00	9.550	128.760	3308.61	-98.28	-86.50	52.46	1712172.19	14272354.79	39°18'10.7576"N	80°44'46.8378"W	101.16	148.764	0.24	-0.12	-1.28	
3415.00	9.210	132.150	3404.32	-111.68	-96.74	64.49	1712184.21	14272344.54	39°18'10.6560"N	80°44'46.6851"W	116.27	146.313	0.67	-0.35	3.49	
3510.00	9.080	130.340	3498.11	-124.59	-106.70	75.84	1712195.56	14272334.59	39°18'10.5573"N	80°44'46.5411"W	130.91	144.596	0.33	-0.14	-1.91	
3604.00	8.930	129.760	3590.95	-137.01	-116.17	87.10	1712206.82	14272325.13	39°18'10.4634"N	80°44'46.3982"W	145.19	143.138	0.19	-0.16	-0.62	
3699.00	8.650	127.710	3684.84	-149.08	-125.25	98.42	1712218.13	14272316.05	39°18'10.3733"N	80°44'46.2545"W	159.29	141.840	0.44	-0.29	-2.16	
3794.00	8.610	134.310	3778.76	-161.22	-134.59	109.16	1712228.87	14272306.71	39°18'10.2807"N	80°44'46.1182"W	173.29	140.955	1.04	-0.04	6.95	
3888.00	8.320	135.180	3871.74	-173.47	-144.33	118.99	1712238.69	14272296.98	39°18'10.1842"N	80°44'45.9935"W	187.05	140.496	0.34	-0.31	0.93	
3983.00	8.230	134.560	3965.75	-185.58	-153.97	128.68	1712248.38	14272287.34	39°18'10.0886"N	80°44'45.8706"W	200.67	140.114	0.13	-0.09	-0.65	
4078.00	8.120	133.290	4059.78	-197.45	-163.35	138.41	1712258.10	14272277.97	39°18'9.9957"N	80°44'45.7472"W	214.10	139.724	0.22	-0.12	-1.34	
4173.00	7.550	131.350	4153.90	-208.65	-172.07	147.98	1712267.67	14272269.25	39°18'9.9092"N	80°44'45.6258"W	226.95	139.305	0.66	-0.60	-2.04	
4267.00	7.180	128.450	4247.12	-218.81	-179.80	157.21	1712276.90	14272261.52	39°18'9.8325"N	80°44'45.5086"W	238.84	138.835	0.56	-0.39	-3.09	
4362.00	8.140	128.160	4341.27	-229.28	-187.65	167.15	1712286.84	14272253.67	39°18'9.7547"N	80°44'45.3824"W	251.30	138.307	1.01	1.01	-0.31	

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# Actual Wellpath Report

Fralei Unit 2H AWP Proj: 15888'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fralei Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fralei Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 stations) † = interpolated, ‡ = extrapolated station																
MD	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)	
4457.00	9.430	130.680	4435.16	-241.45	-196.88	178.34	1712298.02	14272244.45	39°18'9.6631"N	80°44'45.2404"W	265.64	137.828	1.42	1.36	2.65	
4551.00	9.430	129.960	4527.89	-254.49	-206.84	190.08	1712309.76	14272234.49	39°18'9.5643"N	80°44'45.0914"W	280.92	137.418	0.13	0.00	-0.77	
4646.00	9.100	128.550	4621.65	-267.29	-216.52	201.93	1712321.60	14272224.81	39°18'9.4683"N	80°44'44.9411"W	296.07	136.998	0.42	-0.35	-1.48	
4741.00	8.840	127.410	4715.48	-279.50	-225.64	213.60	1712333.26	14272215.70	39°18'9.3779"N	80°44'44.7930"W	310.71	136.570	0.33	-0.27	-1.20	
4835.00	8.740	124.780	4808.38	-291.06	-234.10	225.20	1712344.86	14272207.24	39°18'9.2939"N	80°44'44.6457"W	324.84	136.110	0.44	-0.11	-2.80	
4930.00	9.290	123.530	4902.21	-302.74	-242.46	237.52	1712357.18	14272198.89	39°18'9.2110"N	80°44'44.4892"W	339.41	135.589	0.61	0.58	-1.32	
5025.00	9.760	126.390	4995.90	-315.21	-251.47	250.40	1712370.05	14272189.88	39°18'9.1216"N	80°44'44.3258"W	354.87	135.122	0.70	0.49	3.01	
5120.00	9.850	129.340	5089.51	-328.52	-261.40	263.16	1712382.81	14272179.96	39°18'9.0231"N	80°44'44.1637"W	370.92	134.807	0.54	0.09	3.11	
5214.00	8.790	128.950	5182.27	-341.24	-271.01	274.97	1712394.61	14272170.35	39°18'8.9278"N	80°44'44.0139"W	386.07	134.585	1.13	-1.13	-0.41	
5309.00	8.570	125.570	5276.18	-352.96	-279.69	286.37	1712406.01	14272161.67	39°18'8.8417"N	80°44'43.8692"W	400.29	134.324	0.58	-0.23	-3.56	
5403.00	8.470	122.590	5369.14	-363.87	-287.49	297.90	1712417.53	14272153.87	39°18'8.7642"N	80°44'43.7228"W	414.00	133.982	0.48	-0.11	-3.17	
5498.00	8.460	124.550	5463.11	-374.75	-295.22	309.55	1712429.18	14272146.14	39°18'8.6875"N	80°44'43.5749"W	427.76	133.643	0.30	-0.01	2.06	
5593.00	8.700	121.960	5557.05	-385.73	-302.99	321.40	1712441.02	14272138.38	39°18'8.6104"N	80°44'43.4244"W	441.70	133.311	0.48	0.25	-2.73	
5688.00	8.930	124.520	5650.92	-397.00	-310.97	333.57	1712453.19	14272130.40	39°18'8.5312"N	80°44'43.2698"W	456.04	132.992	0.48	0.24	2.69	
5782.00	8.880	129.970	5743.79	-408.88	-319.77	345.14	1712464.76	14272121.61	39°18'8.4439"N	80°44'43.1230"W	470.51	132.814	0.90	-0.05	5.80	
5877.00	9.270	130.560	5837.60	-421.56	-329.45	356.58	1712476.18	14272111.93	39°18'8.3479"N	80°44'42.9779"W	485.47	132.736	0.42	0.41	0.62	
5971.00	9.840	127.590	5930.30	-434.57	-339.28	368.69	1712488.30	14272102.11	39°18'8.2504"N	80°44'42.8241"W	501.04	132.621	0.80	0.61	-3.16	
6066.00	9.410	118.480	6023.97	-446.82	-347.93	381.95	1712501.55	14272093.46	39°18'8.1645"N	80°44'42.6557"W	516.67	132.331	1.66	-0.45	-9.59	
6078.00	9.500	118.430	6035.81	-448.24	-348.87	383.69	1712503.28	14272092.52	39°18'8.1552"N	80°44'42.6337"W	518.58	132.279	0.75	0.75	-0.42	BH AT Curve <8-1/2"> (6066')(6078'-15863')
6172.00	10.030	89.950	6128.50	-456.28	-352.56	398.70	1712518.29	14272088.83	39°18'8.1183"N	80°44'42.4428"W	532.22	131.485	5.12	0.56	-30.30	
6267.00	8.510	26.970	6222.47	-453.74	-346.27	410.19	1712529.78	14272095.12	39°18'8.1801"N	80°44'42.2965"W	536.81	130.170	10.25	-1.60	-66.29	
6362.00	9.570	4.740	6316.32	-441.42	-332.13	414.03	1712533.62	14272109.25	39°18'8.3198"N	80°44'42.2471"W	530.79	128.736	3.81	1.12	-23.40	
6456.00	12.880	2.670	6408.51	-424.35	-313.87	415.17	1712534.75	14272127.50	39°18'8.5002"N	80°44'42.2320"W	520.46	127.090	3.55	3.52	-2.20	
6551.00	21.530	1.060	6499.17	-397.84	-285.82	415.98	1712535.57	14272155.55	39°18'8.7775"N	80°44'42.2206"W	504.71	124.492	9.12	9.11	-1.69	
6558.00†	21.955	1.450	6505.68	-395.38	-283.22	416.04	1712535.63	14272158.14	39°18'8.8031"N	80°44'42.2198"W	503.29	124.245	6.41	6.07	5.57	Sycamore: 6558' MD
6646.00	27.360	5.360	6585.63	-361.17	-246.61	418.35	1712537.93	14272194.73	39°18'9.1649"N	80°44'42.1891"W	485.63	120.519	6.41	6.14	4.44	
6741.00	35.020	0.600	6666.85	-315.08	-197.54	420.68	1712540.26	14272243.79	39°18'9.6498"N	80°44'42.1578"W	464.75	115.154	8.46	8.06	-5.01	
6810.00†	41.139	356.256	6721.15	-274.17	-155.05	419.40	1712538.98	14272286.26	39°18'10.0699"N	80°44'42.1725"W	447.14	110.289	9.68	8.87	-6.30	Middlesex: 6810' MD
6835.00	43.390	354.940	6739.65	-257.80	-138.29	418.11	1712537.69	14272303.02	39°18'10.2356"N	80°44'42.1883"W	440.38	108.301	9.68	9.01	-5.26	
6930.00	49.690	349.820	6804.98	-189.92	-70.04	408.81	1712528.40	14272371.24	39°18'10.9104"N	80°44'42.3041"W	414.77	99.722	7.70	6.63	-5.39	

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# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 stations) † = interpolated, ‡ = extrapolated station																
MD	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]	
7025.00	55.810	344.800	6862.48	-114.64	3.63	392.09	1712511.68	14272444.88	39°18'11.6389"N	80°44'42.5142"W	392.10	89.470	7.69	6.44	-5.28	
7034.00†	56.246	344.653	6867.51	-107.18	10.83	390.12	1712509.72	14272452.07	39°18'11.7101"N	80°44'42.5390"W	390.27	88.410	5.03	4.85	-1.63	Burkett: 7034' MD
7072.00	58.090	344.050	6888.11	-75.27	41.57	381.51	1712501.11	14272482.81	39°18'12.0143"N	80°44'42.6475"W	383.76	83.781	5.03	4.85	-1.59	
7088.00†	58.956	343.303	6896.47	-61.63	54.67	377.67	1712497.27	14272495.90	39°18'12.1438"N	80°44'42.6958"W	381.61	81.764	6.72	5.41	-4.67	Tully: 7088' MD
7120.00	60.700	341.850	6912.55	-33.97	81.06	369.39	1712488.99	14272522.28	39°18'12.4049"N	80°44'42.8002"W	378.17	77.623	6.72	5.45	-4.54	
7167.00	64.980	339.680	6934.00	7.82	120.53	355.60	1712475.21	14272561.73	39°18'12.7953"N	80°44'42.9742"W	375.47	71.277	9.99	9.11	-4.62	
7215.00	69.500	338.870	6952.57	52.00	161.91	339.93	1712459.55	14272603.10	39°18'13.2048"N	80°44'43.1720"W	376.52	64.532	9.54	9.42	-1.69	
7223.00†	69.915	339.024	6955.34	59.49	168.91	337.24	1712456.86	14272610.10	39°18'13.2741"N	80°44'43.2060"W	377.18	63.395	5.49	5.18	1.92	Marcellus POE: 7223' MD
7309.00	74.380	340.630	6981.70	141.24	245.73	309.03	1712428.66	14272686.89	39°18'14.0341"N	80°44'43.5621"W	394.82	51.509	5.49	5.19	1.87	
7404.00	83.710	342.870	6999.74	234.39	334.22	279.88	1712399.52	14272775.33	39°18'14.9095"N	80°44'43.9297"W	435.93	39.944	10.09	9.82	2.36	
7499.00	89.910	342.350	7005.02	329.20	424.69	251.55	1712371.20	14272865.77	39°18'15.8045"N	80°44'44.2869"W	493.60	30.639	6.55	6.53	-0.55	
7593.00	89.750	342.490	7005.30	423.20	514.30	223.16	1712342.82	14272955.34	39°18'16.6909"N	80°44'44.6449"W	560.63	23.456	0.23	-0.17	0.15	
7688.00	89.510	342.340	7005.91	518.20	604.86	194.46	1712314.13	14273045.87	39°18'17.5868"N	80°44'45.0068"W	635.35	17.822	0.30	-0.25	-0.16	
7783.00	89.170	341.780	7007.01	613.19	695.23	165.20	1712284.88	14273136.21	39°18'18.4808"N	80°44'45.3758"W	714.59	13.366	0.69	-0.36	-0.59	
7877.00	89.940	340.840	7007.74	707.16	784.27	135.08	1712254.77	14273225.21	39°18'19.3617"N	80°44'45.7558"W	795.82	9.772	1.29	0.82	-1.00	
7972.00	89.820	342.370	7007.94	802.15	874.41	105.10	1712224.81	14273315.32	39°18'20.2534"N	80°44'46.1339"W	880.71	6.854	1.62	-0.13	1.61	
8066.00	88.340	340.400	7009.45	896.11	963.48	75.10	1712194.82	14273404.34	39°18'21.1345"N	80°44'46.5124"W	966.40	4.457	2.62	-1.57	-2.10	
8161.00	92.160	342.680	7009.03	991.07	1053.56	45.02	1712164.76	14273494.40	39°18'22.0258"N	80°44'46.8917"W	1054.53	2.447	4.68	4.02	2.40	
8256.00	89.660	341.230	7007.52	1086.05	1143.87	15.60	1712135.35	14273584.67	39°18'22.9192"N	80°44'47.2628"W	1143.98	0.782	3.04	-2.63	-1.53	
8350.00	89.080	341.990	7008.56	1180.03	1233.06	-14.05	1712105.71	14273673.83	39°18'23.8015"N	80°44'47.6368"W	1233.14	359.347	1.02	-0.62	0.81	
8445.00	89.880	341.320	7009.42	1275.02	1323.23	-43.95	1712075.82	14273763.96	39°18'24.6935"N	80°44'48.0140"W	1323.96	358.098	1.10	0.84	-0.71	
8540.00	88.890	341.950	7010.44	1370.00	1413.39	-73.88	1712045.90	14273854.08	39°18'25.5854"N	80°44'48.3915"W	1415.32	357.008	1.24	-1.04	0.66	
8635.00	87.690	341.730	7013.27	1464.95	1503.61	-103.47	1712016.32	14273944.27	39°18'26.4780"N	80°44'48.7648"W	1507.17	356.063	1.28	-1.26	-0.23	
8730.00	91.480	342.720	7013.96	1559.93	1594.06	-132.47	1711987.33	14274034.68	39°18'27.3727"N	80°44'49.1304"W	1599.55	355.250	4.12	3.99	1.04	
8824.00	87.260	341.540	7014.99	1653.90	1683.49	-161.30	1711958.51	14274124.08	39°18'28.2575"N	80°44'49.4941"W	1691.20	354.527	4.66	-4.49	-1.26	
8919.00	91.570	344.300	7015.96	1748.86	1774.27	-189.19	1711930.63	14274214.82	39°18'29.1555"N	80°44'49.8457"W	1784.33	353.913	5.39	4.54	2.91	
9014.00	91.970	341.340	7013.03	1843.80	1864.98	-217.24	1711902.60	14274305.49	39°18'30.0528"N	80°44'50.1992"W	1877.59	353.356	3.14	0.42	-3.12	
9109.00	88.160	341.580	7012.92	1936.77	1955.03	-247.44	1711872.41	14274395.51	39°18'30.9437"N	80°44'50.5802"W	1970.63	352.787	4.02	-4.01	0.25	
9203.00	91.450	343.330	7013.24	2032.75	2044.64	-275.77	1711844.09	14274485.08	39°18'31.8301"N	80°44'50.9375"W	2063.16	352.319	3.96	3.50	1.86	
9298.00	87.810	339.270	7013.85	2127.66	2134.31	-307.00	1711812.88	14274574.72	39°18'32.7172"N	80°44'51.3315"W	2156.28	351.815	6.56	-3.83	-5.33	

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# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 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
9393.00	92.490	343.030	7013.61	2222.56	2223.89	-338.46	1711781.43	14274664.26	39°18'33.6035"N	80°44'51.7286"W	2249.50	351.347	7.03	4.93	5.01	
9488.00	90.120	339.560	7011.44	2317.49	2313.83	-368.91	1711750.99	14274754.17	39°18'34.4933"N	80°44'52.1128"W	2343.06	350.941	4.42	-2.49	-3.65	
9582.00	91.390	343.200	7010.20	2411.45	2402.89	-398.91	1711720.99	14274843.19	39°18'35.3743"N	80°44'52.4914"W	2435.78	350.574	4.10	1.35	3.87	
9677.00	89.690	342.650	7009.31	2506.44	2493.69	-426.81	1711693.11	14274933.95	39°18'36.2725"N	80°44'52.8430"W	2529.95	350.288	1.88	-1.79	-0.58	
9772.00	90.030	342.310	7009.54	2601.44	2584.29	-455.40	1711664.53	14275024.51	39°18'37.1687"N	80°44'53.2036"W	2624.10	350.008	0.51	0.36	-0.36	
9867.00	89.690	342.320	7009.77	2696.44	2674.80	-484.26	1711635.68	14275114.99	39°18'38.0641"N	80°44'53.5676"W	2718.28	349.738	0.36	-0.36	0.01	
9961.00	89.720	343.180	7010.26	2790.44	2764.56	-512.14	1711607.82	14275204.72	39°18'38.9521"N	80°44'53.9190"W	2811.60	349.505	0.92	0.03	0.91	
10056.00	89.820	343.660	7010.64	2885.42	2855.61	-539.25	1711580.72	14275295.73	39°18'39.8527"N	80°44'54.2607"W	2906.08	349.306	0.52	0.11	0.51	
10151.00	88.090	343.250	7012.37	2980.39	2946.66	-566.29	1711553.68	14275386.74	39°18'40.7534"N	80°44'54.6016"W	3000.58	349.121	1.87	-1.82	-0.43	
10246.00	88.980	343.460	7014.80	3075.34	3037.65	-593.50	1711526.49	14275477.70	39°18'41.6534"N	80°44'54.9444"W	3095.09	348.945	0.96	0.94	0.22	
10341.00	91.480	342.970	7014.42	3170.33	3128.59	-620.93	1711499.07	14275568.61	39°18'42.5530"N	80°44'55.2902"W	3189.62	348.774	2.68	2.63	-0.52	
10436.00	89.480	343.620	7013.62	3265.31	3219.58	-648.23	1711471.77	14275659.55	39°18'43.4530"N	80°44'55.6344"W	3284.19	348.616	2.21	-2.11	0.68	
10530.00	89.230	341.670	7014.68	3359.30	3309.29	-676.27	1711443.75	14275749.23	39°18'44.3405"N	80°44'55.9879"W	3377.68	348.450	2.09	-0.27	-2.07	
10625.00	91.080	343.680	7014.42	3454.29	3399.97	-704.56	1711415.47	14275839.87	39°18'45.2375"N	80°44'56.3446"W	3472.20	348.293	2.88	1.95	2.12	
10720.00	88.280	342.220	7014.95	3549.27	3490.78	-732.41	1711387.63	14275930.65	39°18'46.1358"N	80°44'56.6957"W	3566.79	348.151	3.32	-2.95	-1.54	
10815.00	91.480	346.290	7015.15	3644.19	3582.18	-758.18	1711361.87	14276022.02	39°18'47.0399"N	80°44'57.0204"W	3661.54	348.050	5.45	3.37	4.28	
10910.00	90.830	342.670	7013.24	3739.10	3673.69	-783.59	1711336.47	14276113.48	39°18'47.9450"N	80°44'57.3404"W	3756.33	347.959	3.87	-0.68	-3.81	
11004.00	89.570	342.030	7012.91	3833.10	3763.26	-812.09	1711307.99	14276203.02	39°18'48.8311"N	80°44'57.6999"W	3849.88	347.823	1.50	-1.34	-0.68	
11099.00	90.950	343.440	7012.48	3928.09	3853.97	-840.28	1711279.80	14276293.70	39°18'49.7284"N	80°44'58.0554"W	3944.51	347.700	2.08	1.45	1.48	
11194.00	87.570	341.840	7013.70	4023.06	3944.62	-868.62	1711251.48	14276384.31	39°18'50.6251"N	80°44'58.4127"W	4039.13	347.581	3.94	-3.56	-1.68	
11289.00	92.250	345.930	7013.85	4117.99	4035.84	-894.97	1711225.13	14276475.50	39°18'51.5275"N	80°44'58.7448"W	4133.89	347.497	6.54	4.93	4.31	
11383.00	89.780	342.450	7012.19	4211.91	4126.25	-920.57	1711199.54	14276565.87	39°18'52.4217"N	80°44'59.0674"W	4227.70	347.423	4.54	-2.63	-3.70	
11478.00	87.690	344.650	7014.29	4306.86	4217.33	-947.47	1711172.66	14276656.91	39°18'53.3227"N	80°44'59.4063"W	4322.45	347.338	3.19	-2.20	2.32	
11573.00	89.940	343.950	7016.25	4401.78	4308.76	-973.17	1711146.97	14276748.30	39°18'54.2270"N	80°44'59.7301"W	4417.29	347.273	2.48	2.37	-0.74	
11668.00	90.680	342.940	7015.74	4496.77	4399.82	-1000.24	1711119.91	14276839.33	39°18'55.1278"N	80°45'00.0713"W	4512.08	347.192	1.32	0.78	-1.06	
11763.00	90.550	343.670	7014.72	4591.75	4490.81	-1027.52	1711092.63	14276930.28	39°18'56.0278"N	80°45'00.4153"W	4606.86	347.112	0.78	-0.14	0.77	
11857.00	89.940	344.180	7014.31	4685.72	4581.13	-1053.55	1711066.61	14277020.57	39°18'56.9212"N	80°45'00.7432"W	4700.72	347.049	0.85	-0.65	0.54	
11952.00	89.040	343.330	7015.16	4780.69	4672.33	-1080.13	1711040.05	14277111.73	39°18'57.8234"N	80°45'01.0781"W	4795.56	346.983	1.30	-0.95	-0.89	
12047.00	91.170	343.000	7014.99	4875.68	4763.26	-1107.64	1711012.55	14277202.62	39°18'58.7228"N	80°45'01.4250"W	4890.35	346.909	2.27	2.24	-0.35	
12142.00	88.550	342.930	7015.22	4970.66	4854.08	-1135.47	1710984.73	14277293.41	39°18'59.6212"N	80°45'01.7759"W	4985.12	346.834	2.76	-2.76	-0.07	

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# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 stations)																
MD	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]	
12236.00	92.430	344.490	7014.41	5064.62	4944.28	-1161.83	1710958.38	14277363.58	39°19'0.5135"N	80°45'2.1081"W	5078.96	346.776	4.45	4.13	1.66	
12331.00	90.250	343.660	7012.19	5159.55	5035.61	-1187.88	1710932.34	14277474.86	39°19'1.4168"N	80°45'2.4364"W	5173.82	346.727	2.46	-2.29	-0.87	
12426.00	89.820	342.810	7012.13	5254.54	5126.57	-1215.29	1710904.94	14277565.79	39°19'2.3165"N	80°45'2.7819"W	5268.64	346.664	1.00	-0.45	-0.89	
12521.00	91.020	341.980	7011.44	5349.53	5217.11	-1244.02	1710876.22	14277656.30	39°19'3.2122"N	80°45'3.1443"W	5363.38	346.588	1.54	1.26	-0.87	
12615.00	89.050	344.020	7011.38	5443.52	5307.00	-1271.50	1710848.76	14277746.14	39°19'4.1014"N	80°45'3.4908"W	5457.19	346.527	3.02	-2.10	2.17	
12710.00	87.260	341.680	7014.44	5538.46	5397.72	-1299.49	1710820.77	14277836.83	39°19'4.9988"N	80°45'3.8438"W	5551.94	346.464	3.10	-1.88	-2.46	
12805.00	93.360	343.200	7013.93	5633.41	5488.24	-1328.14	1710792.14	14277927.32	39°19'5.8943"N	80°45'4.2051"W	5646.66	346.396	6.62	6.42	1.60	
12899.00	88.370	341.610	7012.51	5727.36	5577.80	-1356.54	1710763.74	14278016.84	39°19'6.7802"N	80°45'4.5634"W	5740.39	346.331	5.57	-5.31	-1.69	
12994.00	92.160	343.130	7012.07	5822.34	5668.32	-1385.31	1710734.99	14278107.33	39°19'7.6757"N	80°45'4.9262"W	5835.15	346.266	4.30	3.99	1.60	
13089.00	89.540	341.480	7010.66	5917.32	5758.81	-1414.18	1710706.13	14278197.77	39°19'8.5708"N	80°45'5.2904"W	5929.90	346.203	3.26	-2.76	-1.74	
13184.00	89.510	343.680	7011.45	6012.31	5849.44	-1442.62	1710677.71	14278288.37	39°19'9.4673"N	80°45'5.6490"W	6024.71	346.146	2.32	-0.03	2.32	
13278.00	89.450	342.690	7012.30	6106.30	5939.42	-1469.81	1710650.52	14278378.31	39°19'10.3574"N	80°45'5.9919"W	6118.58	346.100	1.06	-0.06	-1.05	
13373.00	89.140	342.730	7013.47	6201.29	6030.12	-1498.04	1710622.30	14278468.98	39°19'11.2546"N	80°45'6.3479"W	6213.41	346.049	0.33	-0.33	0.04	
13468.00	88.740	341.860	7015.23	6296.27	6120.60	-1526.93	1710593.43	14278559.43	39°19'12.1497"N	80°45'6.7123"W	6308.19	345.992	1.01	-0.42	-0.92	
13562.00	89.510	341.600	7016.66	6390.25	6209.85	-1556.39	1710563.98	14278648.64	39°19'13.0326"N	80°45'7.0841"W	6401.92	345.930	0.86	0.82	-0.28	
13657.00	90.120	342.260	7016.97	6485.25	6300.16	-1585.86	1710534.52	14278738.92	39°19'13.9260"N	80°45'7.4559"W	6496.69	345.871	0.95	0.64	0.69	
13752.00	89.230	342.420	7017.51	6580.24	6390.68	-1614.68	1710505.71	14278829.40	39°19'14.8215"N	80°45'7.8194"W	6591.51	345.820	0.95	-0.94	0.17	
13847.00	89.080	343.070	7018.91	6675.23	6481.40	-1642.85	1710477.55	14278920.08	39°19'15.7188"N	80°45'8.1748"W	6686.36	345.777	0.70	-0.16	0.68	
13941.00	89.320	342.630	7020.22	6769.22	6571.21	-1670.57	1710449.84	14279009.86	39°19'16.6072"N	80°45'8.5243"W	6780.23	345.736	0.53	0.26	-0.47	
14036.00	88.830	341.540	7021.75	6864.21	6661.59	-1699.79	1710420.64	14279100.20	39°19'17.5013"N	80°45'8.8929"W	6875.03	345.686	1.26	-0.52	-1.15	
14130.00	90.400	342.460	7022.39	6958.20	6750.98	-1728.83	1710391.60	14279189.56	39°19'18.3856"N	80°45'9.2594"W	6968.83	345.636	1.94	1.67	0.98	
14225.00	87.290	342.480	7024.30	7053.16	6841.54	-1757.44	1710363.01	14279280.08	39°19'19.2814"N	80°45'9.6202"W	7063.66	345.593	3.27	-3.27	0.02	
14320.00	88.890	340.750	7027.47	7148.09	6931.64	-1787.38	1710333.08	14279370.14	39°19'20.1727"N	80°45'9.9981"W	7158.37	345.541	2.48	1.68	-1.82	
14415.00	89.780	343.640	7028.57	7243.08	7022.07	-1816.43	1710304.04	14279460.54	39°19'21.0673"N	80°45'10.3645"W	7253.20	345.497	3.18	0.94	3.04	
14509.00	88.000	341.780	7030.39	7337.05	7111.80	-1844.35	1710276.13	14279550.23	39°19'21.9549"N	80°45'10.7168"W	7347.06	345.461	2.74	-1.89	-1.98	
14604.00	88.860	341.380	7032.99	7432.00	7201.90	-1874.36	1710246.13	14279640.29	39°19'22.8462"N	80°45'11.0955"W	7441.81	345.412	1.00	0.91	-0.42	
14699.00	88.490	341.990	7035.19	7526.97	7292.06	-1904.21	1710216.30	14279730.42	39°19'23.7381"N	80°45'11.4721"W	7536.58	345.365	0.75	-0.39	0.64	
14793.00	88.590	341.980	7037.59	7620.93	7381.42	-1933.27	1710187.25	14279819.75	39°19'24.6221"N	80°45'11.8388"W	7630.39	345.323	0.11	0.11	-0.01	
14888.00	88.860	342.390	7039.70	7715.91	7471.84	-1962.32	1710158.20	14279910.13	39°19'25.5166"N	80°45'12.2054"W	7725.23	345.285	0.52	0.28	0.43	
14983.00	88.770	342.050	7041.66	7810.89	7562.29	-1991.33	1710129.21	14280000.54	39°19'26.4113"N	80°45'12.5713"W	7820.07	345.248	0.37	-0.09	-0.36	

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# Actual Wellpath Report

Fralely Unit 2H AWP Proj: 15888'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fralely Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fralely Unit 2H AWB
Slot	Slot #02		

WELLPATH DATA (191 stations) † = Interpolated, ‡ = extrapolated station																	
MD	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]		
15077.00	89.570	343.240	7043.03	7904.87	7651.99	-2019.36	1710101.19	14280090.21	39°19'27.2987"N	80°45'12.9250"W	7913.97	345.217	1.53	0.85	1.27		
15172.00	88.490	341.390	7044.63	7999.85	7742.49	-2048.22	1710072.34	14280180.67	39°19'28.1939"N	80°45'13.2890"W	8008.83	345.182	2.25	-1.14	-1.95		
15267.00	89.020	341.150	7046.70	8094.81	7832.43	-2078.72	1710041.86	14280270.58	39°19'29.0837"N	80°45'13.6739"W	8103.58	345.136	0.61	0.56	-0.25		
15362.00	88.830	341.010	7048.48	8189.77	7922.29	-2109.51	1710011.07	14280360.40	39°19'29.9726"N	80°45'14.0627"W	8198.33	345.089	0.25	-0.20	-0.15		
15456.00	88.890	342.470	7050.35	8283.74	8011.53	-2138.96	1709981.64	14280449.61	39°19'30.8555"N	80°45'14.4343"W	8292.15	345.052	1.55	0.06	1.55		
15551.00	87.230	341.360	7053.57	8378.67	8101.78	-2168.43	1709952.18	14280539.82	39°19'31.7483"N	80°45'14.8062"W	8386.95	345.016	2.10	-1.75	-1.17		
15646.00	88.950	341.260	7056.73	8473.60	8191.72	-2198.86	1709921.77	14280629.72	39°19'32.6380"N	80°45'15.1903"W	8481.70	344.975	1.81	1.81	-0.11		
15741.00	88.340	341.090	7058.98	8568.55	8281.61	-2229.50	1709891.13	14280719.58	39°19'33.5273"N	80°45'15.5771"W	8576.47	344.933	0.67	-0.64	-0.18		
15836.00	89.290	341.840	7060.94	8663.51	8371.66	-2259.69	1709860.95	14280809.60	39°19'34.4181"N	80°45'15.9582"W	8671.27	344.895	1.27	1.00	0.79		
15863.00	89.450	341.610	7061.24	8690.51	8397.30	-2268.16	1709852.49	14280835.22	39°19'34.6717"N	80°45'16.0651"W	8698.23	344.885	1.04	0.59	-0.85		
15888.00‡	89.450	341.610	7061.48	8715.50	8421.02	-2276.05	1709844.61	14280858.94	39°19'34.9064"N	80°45'16.1646"W	8723.19	344.875	0.00	0.00	0.00	Projected MD at TD: 15888'	

HOLE & CASING SECTIONS - Ref Wellbore: Fralely Unit 2H AWB Ref Wellpath: Fralely Unit 2H AWP Proj: 15888'									
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.18	0.20
17.5in Open Hole	110.00	474.00	364.00	110.00	473.99	0.18	0.20	0.61	2.32
13.375in Casing Surface	30.00	474.00	444.00	30.00	473.99	0.00	0.00	0.61	2.32
12.25in Open Hole	474.00	2605.80	2131.80	473.99	2601.03	0.61	2.32	-47.21	-4.25
9.625in Casing Intermediate	30.00	2605.80	2575.80	30.00	2601.03	0.00	0.00	-47.21	-4.25
8.75in Open Hole	2605.80	6132.00	3526.20	2601.03	6089.07	-47.21	-4.25	-351.89	391.98
8.5in Open Hole	6132.00	15888.00	9756.00	6089.07	7061.48	-351.89	391.98	8421.02	-2276.05
5.5in Casing Production	30.00	15888.00	15858.00	30.00	7061.48	0.00	0.00	8421.02	-2276.05

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# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley 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
Fraley Unit 2H POE Rev-2	6963.00	121.80	345.39	1712465.00	14272563.00	39°18'12.8082"N	80°44'43.1041"W	point
Fraley Unit 2H BHL Rev-2	7011.00	8444.49	-2284.29	1709836.36	14280882.40	39°19'35.1386"N	80°45'16.2687"W	point
Fraley Unit 2H BHL-Plat	7011.00	8512.12	-2305.66	1709815.00	14280950.00	39°19'35.8076"N	80°45'16.5383"W	point
Fraley Unit 2H LP Rev-2	7011.00	367.60	267.72	1712387.37	14272808.71	39°18'15.2398"N	80°44'44.0832"W	point
Fraley Unit 2H 50' L/R Hard Line Rev-2	7250.00	4316.96	-980.14	1711140.00	14276756.50	39°18'54.3083"N	80°44'59.8185"W	rectangle
2D Rectangle 8799.18 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Fraley Unit 2H AWB Ref Wellpath: Fraley Unit 2H AWP Proj: 15888'								
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date			
30.00	494.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-479')	Fraley Unit 2H AWB	13/Dec/2020			
494.00	678.00	Gyrodatta 2015 - GC+WIR+DPIPE	02 Gyrodatta MS Gyro <12-1/4"> (479')(571'-663')	Fraley Unit 2H AWB	13/Dec/2020			
678.00	2520.00	OWSG MWD rev2 + HRGM	03 Premier MWD <12-1/4"> (663')(772'-2505')	Fraley Unit 2H AWB	13/Dec/2020			
2520.00	6066.00	OWSG MWD rev2 + HRGM	04 Premier MWD <8-3/4"> (2505')(2641'-6051')	Fraley Unit 2H AWB	13/Dec/2020			
6066.00	15888.00	BH AutoTrak Curve/Express (2019) (HRGM, X Short spacing)	05 BH AT Curve <8-1/2"> (6066')(6078'-15863')	Fraley Unit 2H AWB	13/Feb/2021			

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# Actual Wellpath Report

Fraley Unit 2H AWP Proj: 15888'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Fraley Unit 2H
Field	Doddridge	API	47-017-06897-0000
Facility	Peggy June Pad	Wellbore	Fraley Unit 2H AWB
Slot	Slot #02		

## COMMENTS

### Wellpath general comments

API: 47-017-06897-0000

BH Job #: 110695232

Rig: H&P 519

Duration: 2/15/2021-2/19/2021

Gyrodatta MS Gyro <17-1/2"> (100'-479')

Gyrodatta MS Gyro <12-1/4"> (479')(571'-663')

Premier MWD <12-1/4"> (663')(772'-2505')

Premier MWD <8-3/4"> (2505')(2641'-6051')

BH AT Curve <8-1/2"> (6066')(6078'-15863')

Sycamore: 6558' MD

Middlesex: 6810' MD

Burkett: 7034' MD

Tully: 7088' MD

Marcellus POE: 7223' MD

Projected MD at TD: 15888'

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