



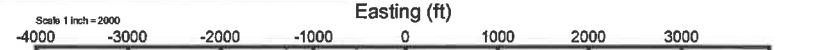
ANTERO RESOURCES CORPORATION



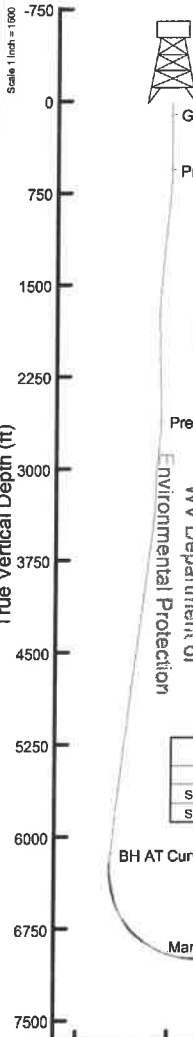
Location: Doddridge Co., WV
Field: Doddridge
Facility: Peggy June Pad

Slot: Slot #05
Well: Whitehill Unit 1H
Wellbore: Whitehill Unit 1H PWB

Plot reference wellpath is Whitehill Unit 1H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 510 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 510 (RKB)	Scale: True distance
H&P 510 (RKB) to Mean Sea Level: 1305 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #05): -1275 feet	Depths are in feet
Offset wellpath MDs are referenced to each well's default MD datum	Created by: edward on 2021-02-04; Database: WA_MPL_EASTERNUS_Delta



Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Peggy June Pad	1712149.550	14272437.390	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 #05	0.00	0.00	1712149.550	14272437.390	39°18'11.5750"N
Comment: Whitehill Unit 1H					
H&P 510 (RKB) to Ground level (At Slot: Slot #05)			30ft		
Mean Sea Level to Ground level (At Slot: Slot #05)			-1275ft		
H&P 510 (RKB) to Mean Sea Level			1305ft		



Gyrodatta MS Gyro <17-1/2"> (100'-443') : 0.43° Inc, 115.00ft MD, 115.00ft TVD, -0.11ft VS

Premier MWD <12-1/4"> (443')(553'-2503') : 0.68° Inc, 568.00ft MD, 567.99ft TVD, -1.94ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	6287.00	19.880	01.230	6107.35	-152.87	1088.87	0.56	-467.72
Proj. to Bottom	6353.00	19.880	01.230	6169.42	-153.35	1091.30	0.00	-474.93
End of 3D Arc	6700.04	21.009	25.930	8498.55	-98.00	1178.55	6.27	-448.43
POE	7352.98	69.812	342.472	6952.00	333.74	1133.90	8.50	-23.29
Landing Pt.	7605.33	90.000	342.472	6996.00	569.43	1059.46	8.00	223.87
BHL	17614.00	90.000	342.472	6996.00	10113.38	-1954.93	0.00	10232.54

Premier MWD <8-3/4"> (2503')(2608'-6272') : 2.05° Inc, 2623.00ft MD, 2618.02ft TVD, -80.75ft VS

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User specified (HDGM) Dip: 66.29° Field: 51962 nT
Magnetic North is 7.58 degrees West of True North (at 23/Jan/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

API: 47-017-06902-0000
BH Job #: 110695187
Rig: H&P 519
Duration: 1/24/2021-1/28/2021

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #05	Whitehill Unit 1H	Whitehill Unit 1H AWB	Whitehill Unit 1H AWP Proj: 17580'
Slot #05	Whitehill Unit 1H	Whitehill Unit 1H PWB	Whitehill Unit 1H PWP Rev-A.0

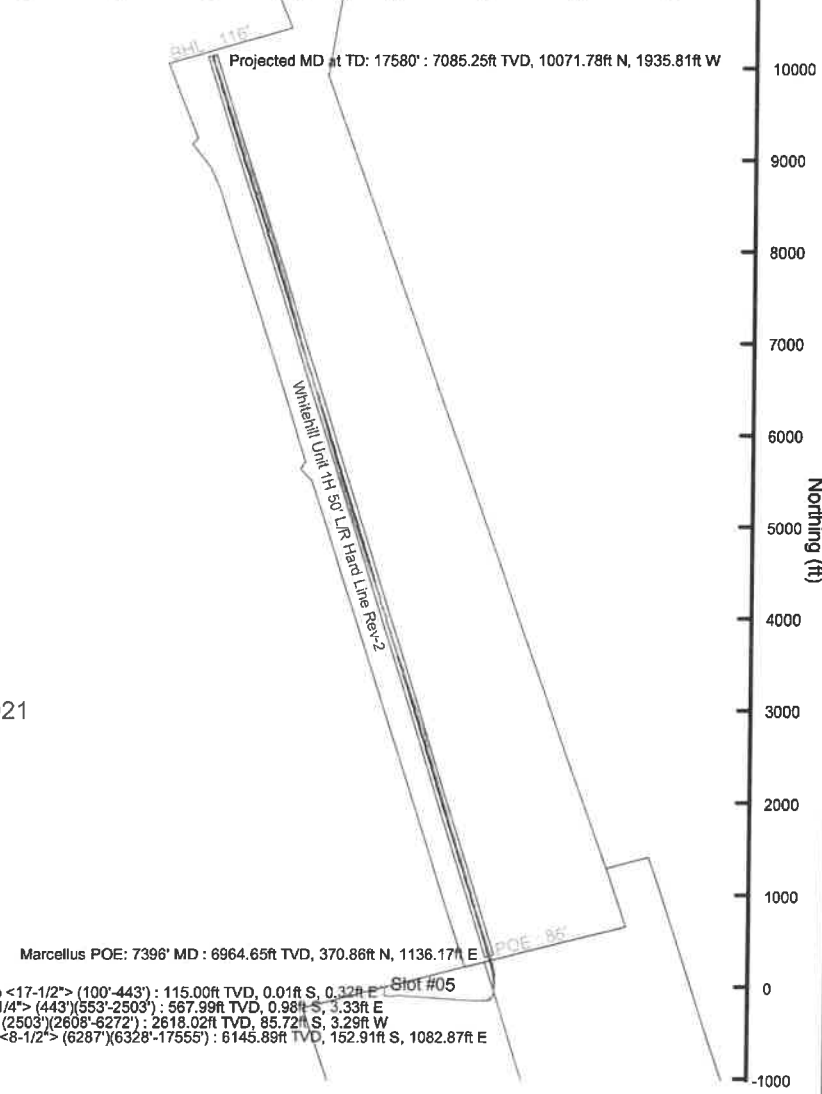
BH AT Curve <8-1/2"> (6287')(6328'-17555') : 20.06° Inc, 6328.00ft MD, 6145.89ft TVD, -471.97ft VS

Marcellus POE: 7396' MD : 72.07° Inc, 7396.00ft MD, 6964.65ft TVD, 11.41ft VS

Marcellus POE: 7396' MD : 6964.65ft TVD, 370.86ft N, 1136.17ft E

Gyrodatta MS Gyro <17-1/2"> (100'-443') : 115.00ft TVD, 0.01ft S, 0.32ft E
Premier MWD <12-1/4"> (443')(553'-2503') : 567.99ft TVD, 0.98ft S, 3.33ft E
Premier MWD <8-3/4"> (2503')(2608'-6272') : 2618.02ft TVD, 85.72ft S, 3.29ft W
BH AT Curve <8-1/2"> (6287')(6328'-17555') : 6145.89ft TVD, 152.91ft S, 1082.87ft E

Projected MD at TD: 17580' : 88.55° Inc, 17580.00ft MD, 7085.25ft TVD, 10187.12ft VS



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

Scale 1 inch = 1500



Actual Wellpath Report

Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

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	04/Feb/2021 at 13:40
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	0.00	0.00	1712149.55	14272437.39	39°18'11.5750"N	80°44'47.1230"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 #05)	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

Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (207 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	92.630	0.00	0.00	0.00	0.00	1712149.55	14272437.39	39°18'11.5750"N	80°44'47.1230"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	92.630	30.00	0.00	0.00	0.00	1712149.55	14272437.39	39°18'11.5750"N	80°44'47.1230"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.430	92.630	115.00	-0.11	-0.01	0.32	1712149.87	14272437.38	39°18'11.5748"N	80°44'47.1189"W	0.32	92.630	0.51	0.51	0.00	Gyrodata MS Gyro <17-1/2"> (100'-443')
140.00	0.460	95.680	140.00	-0.18	-0.03	0.51	1712150.06	14272437.36	39°18'11.5747"N	80°44'47.1164"W	0.51	93.228	0.15	0.12	12.20	
165.00	0.450	98.010	165.00	-0.26	-0.05	0.71	1712150.26	14272437.34	39°18'11.5744"N	80°44'47.1139"W	0.71	94.232	0.08	-0.04	9.32	
190.00	0.500	93.860	190.00	-0.35	-0.07	0.92	1712150.46	14272437.32	39°18'11.5742"N	80°44'47.1113"W	0.92	94.591	0.24	0.20	-16.60	
215.00	0.450	96.890	215.00	-0.43	-0.09	1.12	1712150.67	14272437.30	39°18'11.5740"N	80°44'47.1087"W	1.13	94.721	0.22	-0.20	12.12	
240.00	0.490	101.150	240.00	-0.52	-0.13	1.32	1712150.87	14272437.26	39°18'11.5737"N	80°44'47.1061"W	1.33	95.397	0.21	0.16	17.04	
265.00	0.560	99.020	264.99	-0.62	-0.16	1.55	1712151.10	14272437.23	39°18'11.5733"N	80°44'47.1033"W	1.56	95.075	0.29	0.28	-8.52	
290.00	0.460	97.630	289.99	-0.72	-0.20	1.77	1712151.32	14272437.19	39°18'11.5730"N	80°44'47.1005"W	1.78	96.364	0.40	-0.40	-5.56	
315.00	0.490	100.670	314.99	-0.81	-0.23	1.97	1712151.52	14272437.16	39°18'11.5726"N	80°44'47.0979"W	1.99	96.680	0.16	0.12	12.16	
340.00	0.520	97.350	339.99	-0.91	-0.26	2.19	1712151.74	14272437.13	39°18'11.5723"N	80°44'47.0951"W	2.21	96.889	0.17	0.12	-13.28	
365.00	0.450	96.840	364.99	-1.00	-0.29	2.40	1712151.95	14272437.10	39°18'11.5720"N	80°44'47.0924"W	2.42	96.909	0.28	-0.28	-2.04	
390.00	0.440	93.110	389.99	-1.08	-0.31	2.60	1712152.14	14272437.08	39°18'11.5718"N	80°44'47.0900"W	2.61	96.767	0.12	-0.04	-14.92	
415.00	0.380	93.060	414.99	-1.14	-0.32	2.77	1712152.32	14272437.07	39°18'11.5717"N	80°44'47.0877"W	2.79	96.531	0.24	-0.24	-0.20	
440.00	0.330	86.780	439.99	-1.19	-0.32	2.93	1712152.48	14272437.07	39°18'11.5717"N	80°44'47.0857"W	2.95	96.196	0.25	-0.20	-25.12	
458.00	0.300	91.820	457.99	-1.21	-0.32	3.03	1712152.58	14272437.07	39°18'11.5718"N	80°44'47.0845"W	3.04	95.969	0.23	-0.17	28.00	
568.00	0.680	178.590	567.99	-1.94	-0.98	3.33	1712152.88	14272436.41	39°18'11.5652"N	80°44'47.0806"W	3.47	106.365	0.66	0.35	78.88	Premier MWD <12-1/4"> (443')(553'-2503')
660.00	2.340	191.500	659.95	-4.10	-3.36	2.97	1712152.52	14272434.03	39°18'11.5416"N	80°44'47.0853"W	4.49	138.564	1.83	1.80	14.03	
752.00	4.380	190.670	751.79	-8.84	-8.66	1.95	1712151.49	14272426.74	39°18'11.4893"N	80°44'47.0985"W	8.87	167.338	2.22	2.22	-0.90	
844.00	5.400	182.370	843.45	-16.01	-16.44	1.12	1712150.67	14272420.96	39°18'11.4125"N	80°44'47.1094"W	16.47	176.117	1.35	1.11	-9.02	
937.00	6.120	178.890	935.98	-24.88	-25.76	1.03	1712150.58	14272411.64	39°18'11.3203"N	80°44'47.1108"W	25.79	177.709	0.86	0.77	-3.74	
1033.00	6.220	179.410	1031.43	-34.76	-36.08	1.18	1712150.73	14272401.32	39°18'11.2183"N	80°44'47.1092"W	36.10	178.122	0.12	0.10	0.54	
1128.00	6.510	177.530	1125.84	-44.89	-46.61	1.47	1712151.02	14272390.80	39°18'11.1143"N	80°44'47.1059"W	46.63	178.195	0.38	0.31	-1.98	
1222.00	6.170	174.900	1219.27	-54.98	-56.96	2.15	1712151.70	14272380.45	39°18'11.0119"N	80°44'47.0977"W	57.00	177.841	0.48	-0.36	-2.80	
1317.00	5.630	177.630	1313.76	-64.45	-66.70	2.79	1712152.34	14272370.71	39°18'10.9156"N	80°44'47.0898"W	66.76	177.602	0.64	-0.57	2.87	
1411.00	5.540	177.940	1407.32	-73.27	-75.85	3.15	1712152.70	14272361.57	39°18'10.8252"N	80°44'47.0856"W	75.91	177.624	0.10	-0.10	0.33	
1505.00	4.850	165.130	1500.93	-81.61	-84.22	4.33	1712153.88	14272353.20	39°18'10.7424"N	80°44'47.0709"W	84.33	177.057	1.43	-0.73	-13.63	
1600.00	4.200	150.540	1595.64	-89.03	-91.13	7.07	1712156.62	14272346.29	39°18'10.6740"N	80°44'47.0362"W	91.41	175.563	1.39	-0.68	-15.36	
1695.00	2.240	135.140	1690.49	-94.08	-95.48	10.09	1712159.64	14272341.95	39°18'10.6310"N	80°44'46.9980"W	96.01	173.966	2.24	-2.06	-16.21	

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Actual Wellpath Report

Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Whitehill Unit 1H
Field	Doddridge		API	47-017-06902-0000
Facility	Peggy June Pad		Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05			

WELLPATH DATA (207 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)	
1790.00	1.050	49.920	1785.46	-95.40	-96.23	12.07	1712161.61	14272341.19	39°18'10.6235"N	80°44'46.9729"W	96.99	172.852	2.52	-1.25	-89.71	
1884.00	1.710	30.280	1879.43	-94.13	-94.47	13.43	1712162.98	14272342.96	39°18'10.6409"N	80°44'46.9554"W	95.42	171.906	0.85	0.70	-20.89	
1979.00	1.210	26.980	1974.40	-92.46	-92.35	14.60	1712164.15	14272345.08	39°18'10.6618"N	80°44'46.9405"W	93.50	171.013	0.53	-0.53	-3.47	
2074.00	1.160	323.690	2069.38	-90.83	-90.68	14.49	1712164.03	14272346.75	39°18'10.6783"N	80°44'46.9419"W	91.83	170.921	1.31	-0.05	-66.62	
2169.00	1.990	301.740	2164.34	-88.67	-89.04	12.52	1712162.06	14272348.39	39°18'10.6946"N	80°44'46.9669"W	89.91	171.997	1.06	0.87	-23.11	
2263.00	2.460	296.440	2258.27	-86.04	-87.28	9.32	1712158.87	14272350.14	39°18'10.7120"N	80°44'47.0075"W	87.78	173.903	0.55	0.50	-5.64	
2358.00	2.580	291.550	2353.18	-83.27	-85.59	5.51	1712155.06	14272351.84	39°18'10.7289"N	80°44'47.0559"W	85.77	176.317	0.26	0.13	-5.15	
2453.00	2.110	279.810	2448.10	-81.12	-84.50	1.80	1712151.35	14272352.92	39°18'10.7397"N	80°44'47.1031"W	84.52	178.781	0.70	-0.49	-12.36	
2518.00	1.560	256.500	2513.07	-80.51	-84.51	-0.24	1712149.31	14272352.92	39°18'10.7397"N	80°44'47.1290"W	84.51	180.164	1.41	-0.85	-35.86	
2623.00	2.050	242.100	2618.02	-80.75	-85.72	-3.29	1712146.26	14272351.70	39°18'10.7278"N	80°44'47.1679"W	85.78	182.199	0.63	0.47	-13.71	Premier MWD <8-3/4"> (2503')(2608'-6272')
2717.00	3.520	148.340	2711.94	-83.85	-88.96	-3.26	1712146.29	14272348.46	39°18'10.6958"N	80°44'47.1676"W	89.02	182.100	4.45	1.56	-99.74	
2812.00	6.960	126.180	2806.54	-91.32	-94.85	2.92	1712152.47	14272342.58	39°18'10.6374"N	80°44'47.0892"W	94.89	178.239	4.14	3.62	-23.33	
2907.00	9.120	117.000	2900.60	-101.24	-101.66	14.27	1712163.82	14272335.77	39°18'10.5698"N	80°44'46.9450"W	102.66	172.009	2.64	2.27	-9.66	
3001.00	9.780	104.000	2993.34	-110.64	-106.98	28.66	1712178.20	14272330.45	39°18'10.5168"N	80°44'46.7622"W	110.75	165.003	2.37	0.70	-13.83	
3096.00	11.330	84.280	3086.76	-116.77	-108.00	45.78	1712195.31	14272329.43	39°18'10.5063"N	80°44'46.5445"W	117.30	157.029	4.11	1.63	-20.76	
3190.00	14.850	79.110	3178.30	-120.06	-104.80	66.80	1712216.33	14272332.63	39°18'10.5373"N	80°44'46.2769"W	124.28	147.486	3.94	3.74	-5.50	
3285.00	17.700	79.610	3269.49	-123.26	-99.90	92.97	1712242.48	14272337.53	39°18'10.5850"N	80°44'45.9439"W	136.46	137.058	3.00	3.00	0.53	
3380.00	18.360	84.630	3359.83	-128.21	-95.89	122.07	1712271.57	14272341.54	39°18'10.6238"N	80°44'45.5735"W	155.23	128.151	1.78	0.69	5.28	
3478.00	18.870	89.810	3452.71	-136.18	-94.40	153.29	1712302.78	14272343.03	39°18'10.6377"N	80°44'45.1764"W	180.02	121.625	1.77	0.52	5.29	
3573.00	19.740	94.090	3542.37	-146.67	-95.49	184.65	1712334.13	14272341.94	39°18'10.6261"N	80°44'44.7774"W	207.88	117.344	1.75	0.92	4.51	
3668.00	19.620	93.170	3631.82	-158.22	-97.52	216.58	1712366.05	14272339.91	39°18'10.6051"N	80°44'44.3713"W	237.52	114.239	0.35	-0.13	-0.97	
3762.00	19.730	96.150	3720.33	-170.17	-100.09	248.12	1712397.57	14272337.34	39°18'10.5788"N	80°44'43.9703"W	267.54	111.969	1.07	0.12	3.17	
3857.00	19.270	94.180	3809.89	-182.41	-102.95	279.69	1712429.13	14272334.48	39°18'10.5497"N	80°44'43.5687"W	298.04	110.207	0.84	-0.48	-2.07	
3952.00	18.540	92.670	3899.76	-193.43	-104.79	310.42	1712459.84	14272332.64	39°18'10.5306"N	80°44'43.1779"W	327.63	108.654	0.92	-0.77	-1.59	
4046.00	18.810	95.060	3988.81	-204.41	-106.83	340.44	1712489.85	14272330.60	39°18'10.5097"N	80°44'42.7961"W	356.81	107.421	0.86	0.29	2.54	
4141.00	18.390	92.910	4078.85	-215.52	-108.94	370.66	1712520.07	14272328.49	39°18'10.4880"N	80°44'42.4117"W	386.34	106.378	0.85	-0.44	-2.26	
4236.00	19.100	92.060	4168.81	-225.97	-110.26	401.16	1712550.55	14272327.18	39°18'10.4741"N	80°44'42.0238"W	416.04	105.368	0.80	0.75	-0.89	
4330.00	18.240	94.960	4257.87	-236.75	-112.08	431.19	1712580.57	14272325.35	39°18'10.4552"N	80°44'41.6419"W	445.52	104.571	1.35	-0.91	3.09	
4425.00	19.340	98.410	4347.80	-248.82	-115.13	461.63	1712611.00	14272322.31	39°18'10.4243"N	80°44'41.2547"W	475.77	104.003	1.26	1.16	1.53	
4520.00	19.000	96.200	4437.54	-261.43	-118.55	492.64	1712641.99	14272318.89	39°18'10.3895"N	80°44'40.8604"W	506.70	103.531	0.37	-0.36	-0.22	

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Actual Wellpath Report

Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (207 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)		
4614.00	19.180	94.450	4526.37	-273.37	-121.40	523.25	1712672.59	14272316.04	39°18'10.3605"N	80°44'40.4712"W	537.15	103.062	0.64	0.19	-1.85		
4709.00	19.750	95.420	4615.94	-285.47	-124.13	554.78	1712704.11	14272313.31	39°18'10.3327"N	80°44'40.0701"W	568.50	102.612	0.69	0.60	1.02		
4803.00	18.910	94.180	4704.64	-297.30	-126.74	585.79	1712735.11	14272310.70	39°18'10.3060"N	80°44'39.6758"W	599.34	102.208	0.99	-0.89	-1.32		
4898.00	20.490	93.980	4794.07	-309.09	-129.02	617.73	1712767.03	14272308.43	39°18'10.2826"N	80°44'39.2695"W	631.06	101.797	1.66	1.66	-0.21		
4993.00	19.400	92.440	4883.38	-320.57	-130.84	650.08	1712799.37	14272306.60	39°18'10.2637"N	80°44'38.8580"W	663.12	101.380	1.27	-1.15	-1.62		
5087.00	18.220	90.510	4972.36	-330.46	-131.84	680.37	1712829.66	14272305.81	39°18'10.2550"N	80°44'38.4727"W	692.99	100.950	1.42	-1.26	-2.05		
5182.00	17.810	93.900	5062.70	-340.36	-132.76	709.72	1712858.99	14272304.69	39°18'10.2431"N	80°44'38.0994"W	722.03	100.595	1.18	-0.43	3.57		
5277.00	18.210	98.500	5153.05	-352.19	-135.94	738.90	1712888.16	14272301.50	39°18'10.2108"N	80°44'37.7284"W	751.30	100.424	1.55	0.42	4.84		
5372.00	19.970	97.060	5242.82	-365.45	-140.13	769.68	1712918.93	14272297.32	39°18'10.1685"N	80°44'37.3370"W	782.33	100.318	1.92	1.85	-1.52		
5466.00	19.230	93.940	5331.38	-377.80	-143.16	801.06	1712950.29	14272294.28	39°18'10.1377"N	80°44'36.9380"W	813.75	100.133	1.36	-0.79	-3.32		
5561.00	19.100	90.040	5421.12	-388.22	-144.25	832.21	1712981.43	14272293.20	39°18'10.1260"N	80°44'36.5417"W	844.62	99.834	1.35	-0.14	-4.11		
5656.00	19.050	92.370	5510.90	-398.19	-144.90	863.24	1713012.45	14272292.54	39°18'10.1187"N	80°44'36.1470"W	875.32	99.529	0.80	-0.05	2.45		
5751.00	18.470	90.790	5600.85	-408.19	-145.75	893.78	1713042.98	14272291.70	39°18'10.1095"N	80°44'35.7585"W	905.59	99.262	0.81	-0.61	-1.66		
5845.00	18.640	94.780	5689.97	-418.58	-147.21	923.64	1713072.82	14272290.24	39°18'10.0942"N	80°44'35.3787"W	935.30	99.056	1.36	0.18	4.24		
5940.00	19.430	94.950	5779.78	-430.38	-149.84	954.51	1713103.68	14272287.61	39°18'10.0674"N	80°44'34.9861"W	966.20	98.921	0.83	0.83	0.18		
6035.00	19.160	91.780	5869.44	-441.58	-151.68	985.84	1713135.00	14272285.77	39°18'10.0483"N	80°44'34.5877"W	997.44	98.747	1.14	-0.28	-3.34		
6129.00	18.540	88.880	5958.40	-450.90	-151.87	1016.20	1713165.35	14272285.58	39°18'10.0456"N	80°44'34.2015"W	1027.48	98.500	1.20	-0.66	-3.09		
6224.00	19.890	92.260	6048.11	-460.64	-152.21	1047.45	1713196.58	14272285.24	39°18'10.0413"N	80°44'33.8040"W	1058.45	98.268	1.84	1.42	3.56		
6287.00	19.880	91.230	6107.35	-467.72	-152.87	1068.87	1713217.99	14272284.58	39°18'10.0342"N	80°44'33.5316"W	1079.74	98.139	0.56	-0.02	-1.63		
6328.00	20.080	89.120	6145.89	-471.97	-152.91	1082.87	1713231.99	14272284.54	39°18'10.0334"N	80°44'33.3535"W	1093.61	98.037	1.81	0.44	-5.15	BH AT Curve <8-1/2"> (6287)/(6328-17555)	
6371.00	20.490	84.480	6186.23	-475.65	-152.07	1097.73	1713246.85	14272285.38	39°18'10.0413"N	80°44'33.1643"W	1108.22	97.887	3.87	1.00	-10.79		
6466.00	20.240	61.790	6275.43	-476.07	-142.69	1128.81	1713277.91	14272294.76	39°18'10.1332"N	80°44'32.7686"W	1137.79	97.204	8.27	-0.26	-23.88		
6561.00	18.780	46.740	6365.03	-466.38	-124.43	1154.45	1713303.54	14272313.01	39°18'10.3129"N	80°44'32.4419"W	1161.13	96.152	5.49	-1.54	-15.84		
6655.00	20.260	34.780	6453.66	-449.85	-100.68	1174.76	1713323.84	14272336.75	39°18'10.5471"N	80°44'32.1826"W	1179.07	94.898	4.52	1.57	-12.72		
6715.00†	19.758	24.023	6510.06	-435.90	-82.88	1184.82	1713333.90	14272354.54	39°18'10.7227"N	80°44'32.0540"W	1187.71	94.001	6.18	-0.84	-17.93	Sycamore: 6715' MD	
6750.00	19.770	17.620	6543.00	-426.63	-71.83	1189.02	1713338.10	14272365.59	39°18'10.8318"N	80°44'32.0002"W	1191.19	93.457	6.18	0.03	-18.29		
6845.00	24.250	5.270	6631.10	-395.48	-37.06	1195.68	1713344.76	14272400.35	39°18'11.1753"N	80°44'31.9142"W	1196.25	91.775	6.76	4.72	-13.00		
6939.00	34.810	6.290	6712.78	-353.02	8.96	1200.41	1713349.48	14272446.35	39°18'11.6300"N	80°44'31.8524"W	1200.44	89.572	11.25	11.23	1.09		
6959.00†	37.046	5.188	6728.97	-342.24	20.64	1201.58	1713350.65	14272458.02	39°18'11.7454"N	80°44'31.8371"W	1201.75	89.016	11.64	11.18	-5.51	Middlesex: 6959' MD	
7034.00	45.500	1.890	6785.29	-298.09	69.97	1204.51	1713353.58	14272507.33	39°18'12.2328"N	80°44'31.7980"W	1206.54	86.676	11.64	11.27	-4.40		

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Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

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[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
7129.00	53.380	351.570	6847.11	-226.27	141.77	1200.02	1713349.10	14272579.10	39°18'12.9426"N	80°44'31.8525"W	1208.37	83.263	11.68	8.29	-10.86	
7171.00	57.290	349.620	6871.00	-192.08	175.83	1194.36	1713343.44	14272613.15	39°18'13.2795"N	80°44'31.9232"W	1207.24	81.625	10.06	9.31	-4.64	Burkett: 7171' MD
7224.00	60.700	346.100	6898.30	-146.87	220.22	1184.79	1713333.87	14272657.53	39°18'13.7185"N	80°44'32.0434"W	1205.08	79.470	8.59	6.43	-6.64	
7231.00†	61.260	345.655	6901.70	-140.76	226.16	1183.30	1713332.38	14272663.46	39°18'13.7772"N	80°44'32.0622"W	1204.71	79.180	9.74	8.00	-6.35	Fully: 7231' MD
7267.00	64.160	343.440	6918.20	-108.79	256.99	1174.77	1713323.85	14272694.28	39°18'14.0821"N	80°44'32.1696"W	1202.55	77.661	9.74	8.06	-6.15	
7318.00	68.820	340.180	6938.55	-62.05	301.39	1160.15	1713309.24	14272738.66	39°18'14.5214"N	80°44'32.3539"W	1198.66	75.437	10.85	9.14	-6.39	
7396.00†	72.070	341.714	6964.65	11.41	370.86	1136.17	1713285.27	14272808.10	39°18'15.2086"N	80°44'32.6564"W	1195.16	71.923	4.56	4.17	1.97	Marcellus POE: 7396' MD
7413.00	72.780	342.040	6969.79	27.62	386.26	1131.13	1713280.23	14272823.49	39°18'15.3610"N	80°44'32.7200"W	1195.26	71.146	4.56	4.18	1.92	
7508.00	78.980	341.500	6992.95	119.70	473.72	1102.32	1713251.43	14272910.92	39°18'16.2263"N	80°44'33.0833"W	1199.80	66.744	6.55	6.53	-0.57	
7602.00	84.850	341.710	7006.17	212.71	561.99	1072.96	1713222.09	14272999.16	39°18'17.0995"N	80°44'33.4536"W	1211.23	62.356	6.25	6.24	0.22	
7697.00	90.120	341.600	7010.33	307.57	652.04	1043.10	1713192.24	14273089.18	39°18'17.9904"N	80°44'33.8302"W	1230.13	57.990	5.55	5.55	-0.12	
7792.00	90.740	342.730	7009.62	402.57	742.47	1014.01	1713163.15	14273179.57	39°18'18.8850"N	80°44'34.1970"W	1256.77	53.788	1.36	0.65	1.19	
7886.00	88.310	341.820	7010.40	496.56	832.00	985.39	1713134.55	14273269.06	39°18'19.7707"N	80°44'34.5578"W	1289.66	49.824	2.76	-2.59	-0.97	
7981.00	92.120	345.370	7010.04	591.51	923.10	958.57	1713107.74	14273360.13	39°18'20.6718"N	80°44'34.8957"W	1330.78	46.080	5.48	4.01	3.74	
8076.00	89.290	342.380	7008.87	686.45	1014.34	932.19	1713081.37	14273451.33	39°18'21.5743"N	80°44'35.2280"W	1377.63	42.584	4.33	-2.98	-3.15	
8171.00	88.340	342.060	7010.84	781.43	1104.78	903.19	1713052.38	14273541.73	39°18'22.4690"N	80°44'35.5937"W	1426.99	39.267	1.06	-1.00	-0.34	
8265.00	89.200	342.350	7012.86	875.40	1194.26	874.47	1713023.67	14273631.18	39°18'23.3542"N	80°44'35.9558"W	1480.19	36.213	0.97	0.91	0.31	
8360.00	89.690	343.150	7013.78	970.40	1284.98	846.30	1712995.51	14273721.86	39°18'24.2517"N	80°44'36.3109"W	1538.64	33.369	0.99	0.52	0.84	
8454.00	88.340	341.930	7015.39	1064.38	1374.63	818.10	1712967.33	14273811.48	39°18'25.1386"N	80°44'36.6664"W	1599.66	30.759	1.94	-1.44	-1.30	
8549.00	89.820	342.260	7016.92	1159.36	1465.02	788.90	1712938.14	14273901.83	39°18'26.0327"N	80°44'37.0346"W	1663.92	28.302	1.60	1.56	0.35	
8644.00	90.220	342.200	7016.88	1254.36	1555.49	759.91	1712909.15	14273992.26	39°18'26.9277"N	80°44'37.4002"W	1731.18	26.037	0.43	0.42	-0.06	
8738.00	90.740	342.810	7016.10	1348.36	1645.13	731.65	1712880.91	14274081.87	39°18'27.8145"N	80°44'37.7565"W	1800.49	23.976	0.85	0.55	0.65	
8832.00	88.580	343.530	7016.65	1442.34	1735.10	704.43	1712853.71	14274171.80	39°18'28.7045"N	80°44'38.0994"W	1872.65	22.097	2.42	-2.30	0.77	
8927.00	93.510	344.670	7014.92	1537.26	1826.42	678.42	1712827.70	14274263.09	39°18'29.6078"N	80°44'38.4271"W	1948.35	20.377	5.33	5.19	1.20	
9021.00	89.570	342.650	7012.40	1631.18	1916.57	651.99	1712801.28	14274353.20	39°18'30.4995"N	80°44'38.7601"W	2024.43	18.788	4.71	-4.19	-2.15	
9116.00	89.140	342.310	7013.47	1726.17	2007.16	623.39	1712772.70	14274443.75	39°18'31.3956"N	80°44'39.1206"W	2101.73	17.254	0.58	-0.45	-0.36	
9211.00	88.770	343.690	7015.20	1821.15	2097.99	595.62	1712744.94	14274534.55	39°18'32.2942"N	80°44'39.4707"W	2180.90	15.849	1.50	-0.39	1.45	
9306.00	89.750	341.790	7016.43	1916.14	2188.70	567.44	1712716.76	14274625.22	39°18'33.1915"N	80°44'39.8259"W	2261.06	14.534	2.25	1.03	-2.00	
9401.00	88.400	342.770	7017.96	2011.12	2279.17	538.53	1712687.87	14274715.66	39°18'34.0865"N	80°44'40.1905"W	2341.93	13.294	1.76	-1.42	1.03	
9495.00	88.250	342.830	7020.71	2105.08	2368.93	510.74	1712660.09	14274805.38	39°18'34.9745"N	80°44'40.5407"W	2423.36	12.167	0.17	-0.16	0.06	

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[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
9590.00	88.460	343.260	7023.43	2200.03	2459.76	483.05	1712632.41	14274896.18	39°18'35.8730"N	80°44'40.8898"W	2506.75	11.110	0.50	0.22	0.45	
9685.00	89.140	345.440	7025.42	2294.96	2551.22	457.43	1712606.80	14274987.60	39°18'36.7776"N	80°44'41.2124"W	2591.90	10.165	2.40	0.72	2.29	
9780.00	92.340	344.680	7024.20	2389.84	2642.98	432.95	1712582.32	14275079.33	39°18'37.6853"N	80°44'41.5207"W	2678.21	9.303	3.46	3.37	-0.80	
9874.00	89.380	341.120	7022.79	2483.80	2732.79	405.32	1712554.71	14275169.10	39°18'38.5737"N	80°44'41.8689"W	2762.69	8.436	4.92	-3.15	-3.79	
9969.00	89.970	341.490	7023.32	2578.78	2822.78	374.87	1712524.27	14275259.05	39°18'39.4639"N	80°44'42.2531"W	2847.56	7.565	0.73	0.62	0.39	
10064.00	90.310	340.120	7023.09	2673.73	2912.50	343.63	1712493.05	14275348.73	39°18'40.3515"N	80°44'42.6473"W	2932.70	6.729	1.49	0.36	-1.44	
10158.00	89.510	341.580	7023.24	2767.69	3001.29	312.80	1712462.22	14275437.49	39°18'41.2300"N	80°44'43.0364"W	3017.55	5.950	1.77	-0.85	1.55	
10253.00	88.740	342.350	7024.69	2862.68	3091.61	283.39	1712432.83	14275527.78	39°18'42.1235"N	80°44'43.4073"W	3104.57	5.237	1.15	-0.81	0.81	
10348.00	91.140	340.110	7024.79	2957.64	3181.55	252.83	1712402.28	14275617.68	39°18'43.0133"N	80°44'43.7929"W	3191.58	4.544	3.46	2.53	-2.36	
10442.00	89.010	337.760	7024.67	3051.45	3269.25	219.04	1712368.51	14275705.35	39°18'43.8811"N	80°44'44.2196"W	3276.58	3.833	3.37	-2.27	-2.50	
10537.00	90.980	344.360	7024.68	3146.36	3359.06	188.23	1712337.70	14275795.12	39°18'44.7695"N	80°44'44.6084"W	3364.33	3.207	7.25	2.07	6.95	
10632.00	90.460	340.430	7023.48	3241.34	3449.58	159.50	1712308.99	14275885.61	39°18'45.6650"N	80°44'44.9706"W	3453.27	2.647	4.17	-0.55	-4.14	
10726.00	91.540	341.550	7021.84	3335.29	3538.44	128.89	1712278.39	14275974.43	39°18'46.5441"N	80°44'45.3569"W	3540.79	2.086	1.66	1.15	1.19	
10821.00	88.060	340.970	7022.17	3430.25	3628.39	98.37	1712247.88	14276064.34	39°18'47.4340"N	80°44'45.7420"W	3629.72	1.553	3.71	-3.66	-0.61	
10916.00	90.800	342.090	7023.12	3525.22	3718.48	68.28	1712217.80	14276154.40	39°18'48.3252"N	80°44'46.1216"W	3719.11	1.052	3.12	2.88	1.18	
11010.00	90.250	342.840	7022.26	3619.22	3808.11	39.96	1712189.50	14276243.99	39°18'49.2119"N	80°44'46.4787"W	3808.32	0.601	0.99	-0.59	0.80	
11105.00	89.260	341.920	7022.66	3714.22	3898.65	11.21	1712160.75	14276334.49	39°18'50.1075"N	80°44'46.8413"W	3898.66	0.165	1.42	-1.04	-0.97	
11200.00	90.060	340.000	7023.23	3809.18	3988.44	-19.78	1712129.77	14276424.25	39°18'50.9959"N	80°44'47.2324"W	3988.49	359.716	2.19	0.84	-2.02	
11295.00	90.980	342.580	7022.36	3904.14	4078.41	-50.25	1712099.32	14276514.19	39°18'51.8859"N	80°44'47.6168"W	4078.72	359.294	2.88	0.97	2.72	
11389.00	89.570	342.210	7021.91	3998.14	4168.00	-78.68	1712070.90	14276603.74	39°18'52.7722"N	80°44'47.9754"W	4168.75	358.919	1.55	-1.50	-0.39	
11484.00	90.490	340.530	7021.86	4093.12	4258.02	-109.03	1712040.56	14276693.73	39°18'53.6628"N	80°44'48.3583"W	4259.42	358.533	2.02	0.97	-1.77	
11579.00	88.980	340.300	7022.30	4188.05	4347.52	-140.87	1712008.73	14276783.19	39°18'54.5483"N	80°44'48.7602"W	4349.80	358.144	1.61	-1.59	-0.24	
11673.00	91.260	342.990	7022.11	4282.03	4436.73	-170.47	1711979.15	14276872.36	39°18'55.4307"N	80°44'49.1336"W	4440.00	357.800	3.75	2.43	2.86	
11768.00	89.200	337.960	7021.72	4376.93	4526.23	-202.21	1711947.42	14276961.83	39°18'56.3162"N	80°44'49.5342"W	4530.74	357.442	5.72	-2.17	-5.29	
11863.00	88.770	342.270	7023.41	4471.82	4615.53	-234.51	1711915.13	14277051.09	39°18'57.1997"N	80°44'49.9420"W	4621.48	357.091	4.56	-0.45	4.54	
11958.00	90.250	342.170	7024.22	4566.81	4705.99	-263.52	1711886.14	14277141.51	39°18'58.0946"N	80°44'50.3079"W	4713.36	356.795	1.56	1.56	-0.11	
12052.00	90.030	340.930	7023.99	4660.80	4795.15	-293.26	1711856.40	14277230.64	39°18'58.9767"N	80°44'50.6832"W	4804.11	356.500	1.34	-0.23	-1.32	
12147.00	89.910	342.250	7024.04	4755.78	4885.29	-323.27	1711826.41	14277320.74	39°18'59.8684"N	80°44'51.0617"W	4895.97	356.214	1.40	-0.13	1.39	
12242.00	90.030	339.060	7024.09	4850.72	4974.91	-354.73	1711794.96	14277410.33	39°19'0.7551"N	80°44'51.4589"W	4987.54	355.921	3.36	0.13	-3.36	
12336.00	90.000	341.940	7024.07	4944.66	5063.51	-386.11	1711763.60	14277498.90	39°19'1.6316"N	80°44'51.8549"W	5078.21	355.639	3.06	-0.03	3.06	

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Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (207 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
12431.00	89.720	343.360	7024.30	5039.65	5154.19	-414.43	1711735.28	14277589.54	39°19'2.5286"N	80°44'52.2121"W	5170.82	355.403	1.52	-0.29	1.49	
12526.00	90.000	342.100	7024.53	5134.65	5244.90	-442.64	1711707.09	14277680.21	39°19'3.4260"N	80°44'52.5677"W	5263.55	355.176	1.36	0.29	-1.33	
12621.00	89.230	342.820	7025.17	5229.65	5335.48	-471.27	1711678.47	14277770.76	39°19'4.3220"N	80°44'52.9288"W	5356.25	354.952	1.11	-0.81	0.76	
12716.00	89.720	342.900	7026.04	5324.64	5426.26	-499.26	1711650.49	14277861.50	39°19'5.2200"N	80°44'53.2818"W	5449.18	354.743	0.52	0.52	0.08	
12810.00	89.690	342.810	7026.52	5418.64	5516.08	-526.97	1711622.79	14277951.28	39°19'6.1085"N	80°44'53.6312"W	5541.19	354.543	0.10	-0.03	-0.10	
12905.00	90.430	343.930	7026.42	5513.62	5607.10	-554.16	1711595.61	14278042.27	39°19'7.0089"N	80°44'53.9739"W	5634.42	354.356	1.41	0.78	1.18	
13000.00	90.580	343.900	7025.59	5608.59	5698.38	-580.48	1711569.30	14278133.51	39°19'7.9118"N	80°44'54.3055"W	5727.87	354.183	0.16	0.16	-0.03	
13095.00	90.150	342.420	7024.98	5703.58	5789.30	-608.00	1711541.79	14278224.40	39°19'8.8112"N	80°44'54.6525"W	5821.14	354.005	1.62	-0.45	-1.56	
13189.00	88.680	343.380	7025.94	5797.57	5879.14	-635.64	1711514.16	14278314.20	39°19'9.6998"N	80°44'55.0009"W	5913.40	353.829	1.87	-1.56	1.02	
13284.00	89.480	343.220	7027.47	5892.54	5970.12	-662.93	1711486.88	14278405.15	39°19'10.5998"N	80°44'55.3450"W	6006.81	353.664	0.86	0.84	-0.17	
13379.00	90.830	344.580	7027.21	5987.51	6061.39	-689.28	1711460.55	14278496.38	39°19'11.5026"N	80°44'55.6770"W	6100.45	353.512	2.02	1.42	1.43	
13473.00	89.690	343.710	7026.78	6081.46	6151.81	-714.96	1711434.88	14278586.76	39°19'12.3970"N	80°44'56.0006"W	6193.22	353.371	1.53	-1.21	-0.93	
13568.00	89.080	343.090	7027.80	6176.45	6242.84	-742.10	1711407.75	14278677.76	39°19'13.2975"N	80°44'56.3427"W	6286.80	353.221	0.92	-0.64	-0.65	
13663.00	89.750	343.410	7028.77	6271.43	6333.81	-769.47	1711380.38	14278768.69	39°19'14.1973"N	80°44'56.6878"W	6380.38	353.073	0.78	0.71	0.34	
13758.00	89.750	343.970	7029.19	6366.41	6424.98	-796.15	1711353.71	14278859.83	39°19'15.0992"N	80°44'57.0240"W	6474.12	352.936	0.59	0.00	0.59	
13852.00	89.820	343.300	7029.54	6460.39	6515.17	-822.64	1711327.24	14278949.98	39°19'15.9913"N	80°44'57.3578"W	6566.90	352.804	0.72	0.07	-0.71	
13947.00	88.710	342.740	7030.76	6555.37	6606.02	-850.38	1711299.51	14279040.80	39°19'16.8900"N	80°44'57.7076"W	6660.53	352.665	1.31	-1.17	-0.59	
14042.00	90.950	343.800	7031.04	6650.36	6697.00	-877.72	1711272.18	14279131.73	39°19'17.7899"N	80°44'58.0523"W	6754.27	352.533	2.61	2.36	1.12	
14136.00	90.000	344.400	7030.26	6744.31	6787.39	-903.47	1711246.44	14279222.10	39°19'18.6841"N	80°44'58.3768"W	6847.26	352.418	1.20	-1.01	0.64	
14231.00	88.430	343.980	7031.56	6839.26	6878.79	-929.35	1711220.57	14279313.45	39°19'19.5881"N	80°44'58.7029"W	6941.28	352.306	1.71	-1.65	-0.44	
14326.00	88.370	343.670	7034.21	6934.20	6969.99	-955.80	1711194.12	14279404.62	39°19'20.4902"N	80°44'59.0363"W	7035.22	352.192	0.33	-0.06	-0.33	
14421.00	89.780	344.170	7035.75	7029.15	7061.26	-982.11	1711167.83	14279495.85	39°19'21.3930"N	80°44'59.3678"W	7129.23	352.082	1.57	1.48	0.53	
14516.00	88.680	343.860	7037.02	7124.11	7152.58	-1008.27	1711141.68	14279587.14	39°19'22.2963"N	80°44'59.6975"W	7223.30	351.976	1.20	-1.16	-0.33	
14610.00	89.940	343.580	7038.16	7218.07	7242.80	-1034.62	1711115.34	14279677.32	39°19'23.1887"N	80°45'0.0296"W	7316.32	351.870	1.37	1.34	-0.30	
14705.00	88.950	343.890	7039.08	7313.05	7333.99	-1061.23	1711088.74	14279768.48	39°19'24.0907"N	80°45'0.3649"W	7410.38	351.766	1.09	-1.04	0.33	
14800.00	88.920	343.370	7040.84	7408.01	7425.13	-1088.00	1711061.98	14279859.57	39°19'24.9922"N	80°45'0.7024"W	7504.41	351.664	0.55	-0.03	-0.55	
14894.00	89.200	343.900	7042.38	7501.98	7515.31	-1114.48	1711035.51	14279949.72	39°19'25.8842"N	80°45'1.0362"W	7597.49	351.565	0.64	0.30	0.56	
14989.00	88.650	343.580	7044.17	7596.94	7606.49	-1141.07	1711008.93	14280040.87	39°19'26.7862"N	80°45'1.3714"W	7691.60	351.468	0.67	-0.58	-0.34	
15084.00	88.520	342.540	7046.51	7691.90	7697.34	-1168.74	1710981.27	14280131.68	39°19'27.6848"N	80°45'1.7203"W	7785.56	351.366	1.10	-0.14	-1.09	
15178.00	88.250	343.180	7049.16	7785.86	7787.13	-1196.44	1710953.59	14280221.43	39°19'28.5730"N	80°45'2.0695"W	7878.50	351.265	0.74	-0.29	0.68	

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Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (207 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)		
15273.00	88.620	343.230	7051.76	7880.82	7878.04	-1223.88	1710926.16	14280312.31	39°19'29.4723"N	80°45'2.4155"W	7972.54	351.170	0.39	0.39	0.05		
15368.00	89.140	342.550	7053.61	7975.80	7968.82	-1251.82	1710898.23	14280403.05	39°19'30.3703"N	80°45'2.7679"W	8066.54	351.072	0.90	0.55	-0.72		
15462.00	89.880	343.810	7054.42	8069.78	8058.79	-1279.02	1710871.04	14280492.99	39°19'31.2603"N	80°45'3.1108"W	8159.66	350.982	1.55	0.79	1.34		
15557.00	89.260	343.560	7055.13	8164.76	8149.96	-1305.70	1710844.36	14280584.12	39°19'32.1621"N	80°45'3.4472"W	8253.89	350.898	0.70	-0.65	-0.26		
15652.00	88.890	343.260	7056.66	8259.73	8241.00	-1332.83	1710817.25	14280675.12	39°19'33.0626"N	80°45'3.7891"W	8348.08	350.813	0.50	-0.39	-0.32		
15746.00	89.260	343.000	7058.18	8353.71	8330.94	-1360.10	1710789.99	14280765.03	39°19'33.9523"N	80°45'4.1330"W	8441.23	350.728	0.48	0.39	-0.28		
15841.00	89.260	342.850	7059.41	8448.70	8421.74	-1387.99	1710762.11	14280855.80	39°19'34.8506"N	80°45'4.4848"W	8535.35	350.641	0.16	0.00	-0.16		
15936.00	88.210	342.060	7061.51	8543.68	8512.30	-1416.62	1710733.49	14280946.32	39°19'35.7464"N	80°45'4.8459"W	8629.37	350.551	1.38	-1.11	-0.83		
16030.00	89.110	342.040	7063.70	8637.65	8601.70	-1445.58	1710704.54	14281035.68	39°19'36.6307"N	80°45'5.2114"W	8722.32	350.460	0.96	0.96	-0.02		
16125.00	88.980	341.590	7065.29	8732.63	8691.94	-1475.23	1710674.91	14281125.89	39°19'37.5235"N	80°45'5.5854"W	8816.24	350.367	0.49	-0.14	-0.47		
16220.00	88.950	341.360	7067.00	8827.60	8782.00	-1505.41	1710644.74	14281215.92	39°19'38.4144"N	80°45'5.9663"W	8910.10	350.273	0.24	-0.03	-0.24		
16315.00	88.740	341.400	7068.92	8922.56	8872.01	-1535.73	1710614.42	14281305.89	39°19'39.3049"N	80°45'6.3491"W	9003.95	350.179	0.23	-0.22	0.04		
16409.00	88.980	341.410	7070.79	9016.53	8961.09	-1565.70	1710584.47	14281394.93	39°19'40.1861"N	80°45'6.7273"W	9096.84	350.089	0.26	0.26	0.01		
16504.00	90.340	342.500	7071.35	9111.52	9051.41	-1595.13	1710555.05	14281485.22	39°19'41.0796"N	80°45'7.0986"W	9190.89	350.005	1.83	1.43	1.15		
16599.00	88.030	341.820	7072.70	9206.50	9141.83	-1624.23	1710525.97	14281575.60	39°19'41.9740"N	80°45'7.4658"W	9284.99	349.925	2.53	-2.43	-0.72		
16694.00	88.180	341.100	7075.84	9301.43	9231.85	-1654.42	1710495.79	14281665.58	39°19'42.8646"N	80°45'7.8468"W	9378.92	349.840	0.77	0.16	-0.76		
16788.00	89.540	341.340	7077.71	9395.39	9320.82	-1684.67	1710465.55	14281754.52	39°19'43.7448"N	80°45'8.2287"W	9471.85	349.765	1.47	1.45	0.26		
16883.00	90.580	342.040	7077.62	9490.38	9411.01	-1714.52	1710435.71	14281844.67	39°19'44.6370"N	80°45'8.6054"W	9565.91	349.675	1.32	1.09	0.74		
16978.00	90.740	341.590	7076.52	9585.37	9501.26	-1744.16	1710406.08	14281934.89	39°19'45.5298"N	80°45'8.9795"W	9660.02	349.598	0.50	0.17	-0.47		
17072.00	90.000	341.560	7075.91	9679.35	9590.44	-1773.87	1710376.38	14282024.03	39°19'46.4120"N	80°45'9.3544"W	9753.11	349.521	0.79	-0.79	-0.03		
17167.00	88.770	341.890	7076.93	9774.34	9680.64	-1803.66	1710346.61	14282114.20	39°19'47.3043"N	80°45'9.7304"W	9847.23	349.446	1.34	-1.29	0.35		
17262.00	87.940	341.680	7079.66	9869.29	9770.84	-1833.34	1710316.93	14282204.36	39°19'48.1966"N	80°45'10.1050"W	9941.35	349.373	0.90	-0.87	-0.22		
17357.00	90.740	341.360	7080.75	9964.26	9860.93	-1863.45	1710286.84	14282294.41	39°19'49.0878"N	80°45'10.4850"W	10035.45	349.299	2.97	2.95	-0.34		
17451.00	88.120	341.740	7081.69	10058.24	9950.08	-1893.19	1710257.11	14282383.53	39°19'49.9698"N	80°45'10.8604"W	10128.59	349.227	2.82	-2.79	0.40		
17546.00	88.620	339.910	7084.39	10153.15	10039.77	-1924.38	1710225.93	14282473.19	39°19'50.8571"N	80°45'11.2542"W	10222.54	349.149	2.00	0.53	-1.93		
17555.00	88.550	340.430	7084.61	10162.14	10048.24	-1927.44	1710222.88	14282481.65	39°19'50.9408"N	80°45'11.2927"W	10231.43	349.142	5.83	-0.78	5.78		
17580.00‡	88.550	340.430	7085.25	10187.12	10071.78	-1935.81	1710214.51	14282505.19	39°19'51.1738"N	80°45'11.3985"W	10256.13	349.120	0.00	0.00	0.00	Projected MD at TD: 17580'	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

HOLE & CASING SECTIONS - Ref Wellbore: Whitehill Unit 1H AWB Ref Wellpath: Whitehill Unit 1H AWP Proj: 17580'									
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)
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	-0.01	0.28
17.5in Open Hole	110.00	463.00	353.00	110.00	462.99	-0.01	0.28	-0.32	3.05
13.375in Casing Surface	30.00	463.00	433.00	30.00	462.99	0.00	0.00	-0.32	3.05
12.25in Open Hole	463.00	2605.00	2142.00	462.99	2600.03	-0.32	3.05	-85.43	-2.73
9.625in Casing Intermediate	30.00	2605.00	2575.00	30.00	2600.03	0.00	0.00	-85.43	-2.73
8.75in Open Hole	2605.00	6353.00	3748.00	2600.03	6169.36	-85.43	-2.73	-152.57	1091.48
8.5in Open Hole	6353.00	17580.00	11227.00	6169.36	7085.25	-152.57	1091.48	10071.78	-1935.81
5.5in Casing Production	30.00	17580.00	17550.00	30.00	7085.25	0.00	0.00	10071.78	-1935.81

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Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Whitehill Unit 1H POE Rev-3	6952.00	333.74	1133.90	1713283.00	14272771.00	39°18'14.8419"N	80°44'32.6866"W	point
Whitehill Unit 1H BHL Rev-3	6996.00	10133.62	-1961.33	1710189.00	14282567.00	39°19'51.7857"N	80°45'11.7211"W	point
Whitehill Unit 1H BHL Rev-4	6996.00	10113.38	-1954.93	1710195.39	14282546.76	39°19'51.5854"N	80°45'11.6404"W	point
Whitehill Unit 1H LP Rev-3	6996.00	569.43	1059.46	1713208.59	14273006.59	39°18'17.1734"N	80°44'33.6251"W	point
Whitehill Unit 1H 50' L/R Hard Line Rev-2	7250.00	5233.68	-413.71	1711736.00	14277669.00	39°19'3.3143"N	80°44'52.2001"W	rectangle
2D Rectangle 10277.1 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Whitehill Unit 1H AWB Ref Wellpath: Whitehill Unit 1H AWP Proj: 17580'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
30.00	458.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-443')	Whitehill Unit 1H AWB	13/Dec/2020	
458.00	2518.00	OWSG MWD rev2 + HRGM	02 Premier MWD <12-1/4"> (443')(553'-2503')	Whitehill Unit 1H AWB	13/Dec/2020	
2518.00	6287.00	OWSG MWD rev2 + HRGM	03 Premier MWD <8-3/4"> (2503')(2608'-6272')	Whitehill Unit 1H AWB	13/Dec/2020	
6287.00	17580.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6287')(6328'-17555')	Whitehill Unit 1H AWB	22/Jan/2021	

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Actual Wellpath Report

Whitehill Unit 1H AWP Proj: 17580'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 1H
Field	Doddridge	API	47-017-06902-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 1H AWB
Slot	Slot #05		

COMMENTS

Wellpath general comments

API: 47-017-06902-0000
BH Job #: 110695187
Rig: H&P 519
Duration: 1/24/2021-1/28/2021
Gyrodatta MS Gyro <17-1/2"> (100'-443')
Premier MWD <12-1/4"> (443')(553'-2503')
Premier MWD <8-3/4"> (2503')(2608'-6272')
BH AT Curve <8-1/2"> (6287')(6328'-17555')
Sycamore: 6715' MD
Middlesex: 6959' MD
Burkett: 7171' MD
Tully: 7231' MD
Marcellus POE: 7396' MD
Projected MD at TD: 17580'

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