



ANTERO RESOURCES CORPORATION

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

Slot: Slot #06
Well: Whitehill Unit 2H
Wellbore: Whitehill Unit 2H PWB

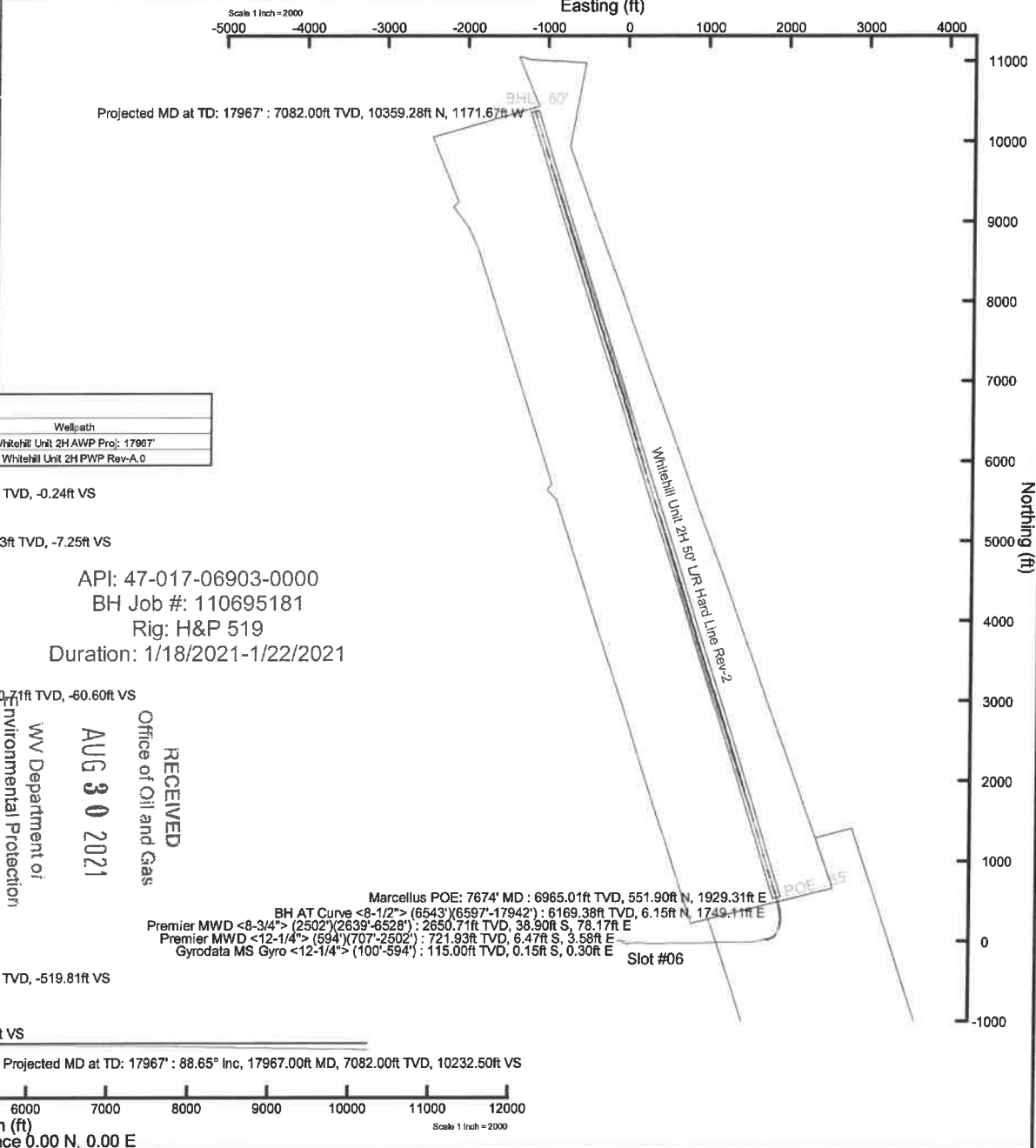
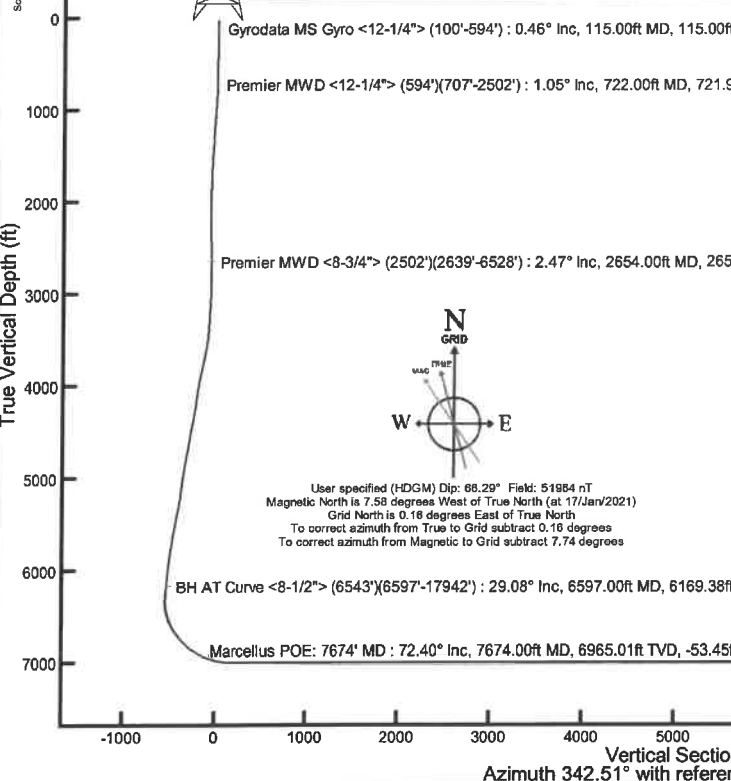


Plot reference wellpath is Whitehill Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1305 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #06): -1275 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's datum MD datum	Created by: eda/aryar on 2021-01-27; Database: WA_MPH_EASTERMUS_Datb

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)	Longitude
Slot #06	-1.18	0.90	1712159.450	14272438.210	39°18'11.5830"N 80°44'46.9970"W
Comment: Whitehill Unit 2H					
H&P 519 (RKB) to Ground level (At Slot: Slot #06)					30ft
Mean Sea Level to Ground level (At Slot: Slot #06)					-1275ft
H&P 519 (RKB) to Mean Sea Level					1305ft

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	6543.00	29.030	79.920	6122.18	0.98	1723.41	0.77	-517.02
Proj. to Bottom	8822.00	29.030	79.920	6191.25	7.89	1761.15	0.00	-524.96
End of 3D Arc	6665.31	30.560	90.019	6246.23	10.37	1792.40	8.28	-528.79
POE	7862.25	69.458	342.515	6961.00	537.00	1926.31	8.28	-66.76
Landing Pt.	7910.34	90.000	342.515	7005.00	766.60	1853.36	8.28	176.08
BHL	17975.73	90.000	342.515	7005.00	10368.90	-1170.91	0.00	10241.44

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Whitehill Unit 2H	Whitehill Unit 2H AWB	Whitehill Unit 2H AWP Proj: 17967
Slot #06	Whitehill Unit 2H	Whitehill Unit 2H PWB	Whitehill Unit 2H PWP Rev-A.0



API: 47-017-06903-0000
BH Job #: 110695181
Rig: H&P 519
Duration: 1/18/2021-1/22/2021

RECEIVED
Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection

User specified (HDGM) Dip: 68.29° Field: 51984 nT
Magnetic North is 7.58 degrees West of True North (at 17/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

Marcellus POE: 7674° MD : 6965.01ft TVD, 551.90ft N, 1929.31ft E
BH AT Curve <8-1/2"> (6543°)(6597°-17942°) : 6169.38ft TVD, 6.15ft N, 1749.11ft E
Premier MWD <8-3/4"> (2502°)(2639°-6528°) : 2650.71ft TVD, 38.90ft S, 78.17ft E
Premier MWD <12-1/4"> (594°)(707°-2502°) : 721.93ft TVD, 6.47ft S, 3.58ft E
Gyrodatta MS Gyro <12-1/4"> (100°-594°) : 115.00ft TVD, 0.15ft S, 0.30ft E



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

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	27/Jan/2021 at 11:28
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	-1.18	9.90	1712159.45	14272436.21	39°18'11.5630"N	80°44'46.9970"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 #06)	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	342.51°

RECEIVED
 Office of Oil and Gas
 AUG 30 2021
 WV Department of
 Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'

Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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	0.000	116.940	0.00	0.00	0.00	0.00	1712159.45	14272436.21	39°18'11.5630"N	80°44'46.9970"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	116.940	30.00	0.00	0.00	0.00	1712159.45	14272436.21	39°18'11.5630"N	80°44'46.9970"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.460	116.940	115.00	-0.24	-0.15	0.30	1712159.75	14272436.06	39°18'11.5615"N	80°44'46.9931"W	0.34	116.940	0.54	0.54	0.00	Gyrodata MS Gyro <12-1/4"> (100'-594')
140.00	0.690	122.690	140.00	-0.42	-0.28	0.52	1712159.97	14272435.93	39°18'11.5602"N	80°44'46.9904"W	0.59	118.401	0.95	0.92	23.00	
165.00	0.700	119.840	165.00	-0.65	-0.44	0.78	1712160.23	14272435.77	39°18'11.5587"N	80°44'46.9871"W	0.89	119.368	0.14	0.04	-11.40	
190.00	0.820	126.650	189.99	-0.91	-0.62	1.06	1712160.51	14272435.59	39°18'11.5569"N	80°44'46.9836"W	1.22	120.488	0.60	0.48	27.24	
215.00	0.810	120.700	214.99	-1.19	-0.82	1.35	1712160.80	14272435.39	39°18'11.5549"N	80°44'46.9799"W	1.58	121.208	0.34	-0.04	-23.80	
240.00	0.770	119.370	239.99	-1.44	-0.99	1.65	1712161.10	14272435.22	39°18'11.5532"N	80°44'46.9761"W	1.92	121.001	0.18	-0.16	-5.32	
265.00	0.920	122.220	264.99	-1.72	-1.18	1.97	1712161.41	14272435.03	39°18'11.5513"N	80°44'46.9721"W	2.29	120.988	0.62	0.60	11.40	
290.00	0.950	121.140	289.98	-2.03	-1.39	2.31	1712161.76	14272434.82	39°18'11.5492"N	80°44'46.9676"W	2.70	121.091	0.14	0.12	-4.32	
315.00	0.960	124.620	314.98	-2.35	-1.62	2.66	1712162.11	14272434.59	39°18'11.5469"N	80°44'46.9632"W	3.12	121.331	0.24	0.04	13.92	
340.00	0.950	125.660	339.98	-2.68	-1.86	3.00	1712162.45	14272434.35	39°18'11.5445"N	80°44'46.9589"W	3.53	121.780	0.08	-0.04	4.16	
365.00	1.000	122.140	364.97	-3.01	-2.10	3.36	1712162.80	14272434.11	39°18'11.5422"N	80°44'46.9544"W	3.96	122.003	0.31	0.20	-14.08	
390.00	0.980	128.600	389.97	-3.35	-2.35	3.71	1712163.16	14272433.86	39°18'11.5397"N	80°44'46.9499"W	4.39	122.330	0.45	-0.08	25.84	
415.00	0.870	135.320	414.97	-3.70	-2.62	4.01	1712163.46	14272433.60	39°18'11.5371"N	80°44'46.9461"W	4.79	123.121	0.62	-0.44	26.88	
440.00	0.860	139.670	439.96	-4.04	-2.89	4.26	1712163.71	14272433.32	39°18'11.5343"N	80°44'46.9429"W	5.15	124.161	0.27	-0.04	17.40	
465.00	0.830	152.700	464.96	-4.39	-3.20	4.47	1712163.92	14272433.01	39°18'11.5313"N	80°44'46.9403"W	5.49	125.586	0.78	-0.12	52.12	
490.00	0.780	163.600	489.96	-4.74	-3.52	4.60	1712164.05	14272432.69	39°18'11.5281"N	80°44'46.9386"W	5.79	127.440	0.64	-0.20	43.60	
515.00	0.790	167.440	514.95	-5.08	-3.85	4.68	1712164.13	14272432.36	39°18'11.5248"N	80°44'46.9376"W	6.07	129.435	0.21	0.04	15.36	
540.00	0.790	171.270	539.95	-5.42	-4.19	4.75	1712164.20	14272432.02	39°18'11.5215"N	80°44'46.9368"W	6.33	131.435	0.21	0.00	15.32	
565.00	0.700	184.070	564.95	-5.74	-4.51	4.76	1712164.21	14272431.70	39°18'11.5183"N	80°44'46.9366"W	6.56	133.459	0.75	-0.36	51.20	
590.00	0.650	203.450	589.95	-5.99	-4.80	4.70	1712164.14	14272431.42	39°18'11.5155"N	80°44'46.9374"W	6.71	135.605	0.93	-0.20	77.52	
609.00	0.760	213.520	608.95	-6.15	-5.00	4.58	1712164.03	14272431.21	39°18'11.5135"N	80°44'46.9389"W	6.78	137.489	0.87	0.58	53.00	
722.00	1.050	214.890	721.93	-7.25	-6.47	3.58	1712163.03	14272429.74	39°18'11.4989"N	80°44'46.9517"W	7.40	151.075	0.26	0.26	1.21	Premier MWD <12-1/4"> (594')(707'-2502')
815.00	1.860	166.970	814.91	-9.28	-8.64	3.43	1712162.88	14272427.57	39°18'11.4775"N	80°44'46.9537"W	9.30	158.353	1.50	0.87	-51.53	
907.00	2.860	151.690	906.83	-13.02	-12.12	4.86	1712164.30	14272424.10	39°18'11.4431"N	80°44'46.9357"W	13.06	158.166	1.27	1.09	-16.61	
1003.00	3.730	143.110	1002.67	-18.32	-16.73	7.87	1712167.31	14272419.49	39°18'11.3975"N	80°44'46.8975"W	18.48	154.812	1.04	0.91	-8.94	
1097.00	4.510	135.850	1096.43	-24.50	-21.82	12.28	1712171.72	14272414.40	39°18'11.3470"N	80°44'46.8416"W	25.04	150.641	1.00	0.83	-7.72	
1192.00	5.070	126.760	1191.09	-31.25	-27.01	18.24	1712177.68	14272409.21	39°18'11.2955"N	80°44'46.7659"W	32.60	145.973	0.99	0.59	-9.57	
1286.00	5.050	118.680	1284.73	-37.60	-31.49	25.20	1712184.64	14272404.74	39°18'11.2511"N	80°44'46.6776"W	40.33	141.330	0.76	-0.02	-8.60	

RECEIVED
 Office of Oil and Gas
 AUG 30 2021
 WV Department of
 Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'

Page 3 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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
1381.00	5.120	113.780	1379.36	-43.42	-35.20	32.75	1712192.18	14272401.02	39°18'11.2142"N	80°44'46.5817"W	48.08	137.071	0.46	0.07	-5.16	
1476.00	4.930	115.470	1473.99	-48.99	-38.67	40.31	1712199.74	14272397.56	39°18'11.1797"N	80°44'46.4856"W	55.86	133.808	0.25	-0.20	1.78	
1571.00	3.780	116.970	1568.71	-53.97	-41.84	46.79	1712206.22	14272394.38	39°18'11.1482"N	80°44'46.4033"W	62.77	131.807	1.22	-1.21	1.58	
1666.00	2.720	130.810	1663.56	-58.08	-44.74	51.28	1712210.71	14272391.49	39°18'11.1194"N	80°44'46.3462"W	68.05	131.099	1.38	-1.12	14.57	
1760.00	2.430	132.070	1757.47	-61.70	-47.53	54.45	1712213.88	14272388.70	39°18'11.0918"N	80°44'46.3060"W	72.28	131.117	0.31	-0.31	1.34	
1855.00	1.400	101.310	1852.41	-63.99	-49.11	57.08	1712216.51	14272387.12	39°18'11.0761"N	80°44'46.2726"W	75.30	130.704	1.50	-1.08	-32.38	
1950.00	0.760	95.210	1947.40	-64.79	-49.39	58.85	1712218.28	14272386.84	39°18'11.0732"N	80°44'46.2502"W	76.83	130.006	0.68	-0.67	-6.42	
2044.00	0.480	242.740	2041.40	-65.10	-49.63	59.12	1712218.55	14272386.60	39°18'11.0709"N	80°44'46.2467"W	77.19	130.011	1.27	-0.30	156.95	
2139.00	0.670	252.490	2136.39	-65.17	-49.98	58.24	1712217.66	14272386.25	39°18'11.0674"N	80°44'46.2580"W	76.74	130.635	0.22	0.20	10.26	
2234.00	0.850	77.440	2231.39	-65.23	-49.99	58.39	1712217.82	14272386.24	39°18'11.0673"N	80°44'46.2560"W	76.87	130.566	1.60	0.19	-184.26	
2328.00	3.250	61.800	2325.32	-64.79	-48.58	61.42	1712220.85	14272387.65	39°18'11.0812"N	80°44'46.2174"W	78.31	128.340	2.60	2.55	-16.64	
2423.00	3.930	70.250	2420.13	-64.17	-46.21	66.86	1712226.28	14272390.02	39°18'11.1045"N	80°44'46.1481"W	81.27	124.648	0.91	0.72	8.89	
2517.00	3.910	63.310	2513.92	-63.53	-43.68	72.76	1712232.18	14272392.55	39°18'11.1293"N	80°44'46.0730"W	84.86	120.978	0.50	-0.02	-7.38	
2654.00	2.470	24.920	2650.71	-60.60	-38.90	78.17	1712237.59	14272397.32	39°18'11.1763"N	80°44'46.0039"W	87.32	116.457	1.82	-1.05	-28.02	Premier MWD <8-3/4"> (2502)/(2639'-6528')
2748.00	3.140	51.540	2744.60	-58.18	-35.47	81.04	1712240.46	14272400.76	39°18'11.2103"N	80°44'45.9673"W	88.46	113.634	1.54	0.71	28.32	
2843.00	5.380	75.370	2839.34	-57.47	-32.72	87.39	1712246.81	14272403.50	39°18'11.2372"N	80°44'45.8865"W	93.32	110.527	2.96	2.36	25.08	
2937.00	7.450	85.640	2932.75	-59.08	-31.14	97.73	1712257.15	14272405.08	39°18'11.2525"N	80°44'45.7549"W	102.58	107.675	2.51	2.20	10.93	
3032.00	8.430	91.200	3026.84	-62.71	-30.82	110.84	1712270.24	14272405.40	39°18'11.2553"N	80°44'45.5882"W	115.04	105.541	1.31	1.03	5.85	
3127.00	9.890	88.520	3120.63	-67.19	-30.76	125.96	1712285.36	14272405.46	39°18'11.2555"N	80°44'45.3958"W	129.66	103.723	1.60	1.54	-2.82	
3222.00	12.010	86.180	3213.89	-71.78	-29.89	143.98	1712303.37	14272406.33	39°18'11.2636"N	80°44'45.1666"W	147.05	101.728	2.28	2.23	-2.46	
3317.00	14.490	83.870	3306.36	-76.45	-27.96	165.66	1712325.04	14272408.26	39°18'11.2821"N	80°44'44.8907"W	168.00	99.580	2.67	2.61	-2.43	
3415.00	16.630	85.940	3400.76	-82.13	-25.66	191.84	1712351.21	14272410.56	39°18'11.3041"N	80°44'44.5575"W	193.55	97.618	2.26	2.18	2.11	
3510.00	19.080	91.610	3491.19	-90.36	-25.13	220.91	1712380.27	14272411.09	39°18'11.3085"N	80°44'44.1877"W	222.34	96.490	3.14	2.56	5.97	
3605.00	22.710	95.040	3579.94	-102.47	-27.18	254.70	1712414.05	14272409.04	39°18'11.2873"N	80°44'43.7580"W	256.14	96.091	4.05	3.84	3.61	
3700.00	27.280	95.870	3666.02	-118.14	-31.02	294.64	1712453.98	14272405.20	39°18'11.2483"N	80°44'43.2500"W	296.27	95.010	4.82	4.81	0.87	
3795.00	31.030	93.860	3748.97	-135.69	-34.89	340.75	1712500.06	14272401.33	39°18'11.2087"N	80°44'42.6636"W	342.53	95.847	4.08	3.95	-2.12	
3889.00	31.740	91.990	3829.22	-152.76	-37.38	389.63	1712548.93	14272398.84	39°18'11.1827"N	80°44'42.0419"W	391.42	95.481	1.28	0.76	-1.99	
3984.00	32.090	88.950	3909.86	-168.23	-37.79	439.84	1712599.11	14272398.44	39°18'11.1773"N	80°44'41.4032"W	441.46	94.911	1.73	0.37	-3.20	
4079.00	31.020	87.850	3990.81	-181.85	-36.41	489.53	1712648.79	14272399.82	39°18'11.1896"N	80°44'40.7710"W	490.88	94.254	1.28	-1.13	-1.16	
4173.00	31.050	86.720	4071.36	-194.21	-34.11	537.94	1712697.18	14272402.11	39°18'11.2109"N	80°44'40.1552"W	539.02	93.629	0.62	0.03	-1.20	

RECEIVED
 Office of Oil and Gas
 WV Department of
 Environmental Protection
 AUG 30 2021



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'
Page 4 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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
4268.00	31.140	86.800	4152.71	-206.29	-31.34	586.92	1712746.14	14272404.88	39°18'11.2369"N	80°44'39.5319"W	587.76	93.057	0.10	0.09	0.08	
4363.00	30.820	87.790	4234.16	-218.76	-29.03	635.77	1712794.97	14272407.19	39°18'11.2584"N	80°44'38.9105"W	636.43	92.614	0.63	-0.34	1.04	
4458.00	30.670	89.270	4315.81	-232.16	-27.78	684.31	1712843.49	14272408.44	39°18'11.2694"N	80°44'38.2929"W	684.88	92.325	0.81	-0.16	1.56	
4552.00	30.180	90.330	4396.86	-246.31	-27.61	731.91	1712891.07	14272408.61	39°18'11.2697"N	80°44'37.6874"W	732.44	92.161	0.77	-0.52	1.13	
4647.00	29.900	90.890	4479.10	-261.08	-28.12	779.47	1712938.61	14272408.10	39°18'11.2634"N	80°44'37.0825"W	779.98	92.066	0.42	-0.29	0.59	
4742.00	30.850	90.260	4561.06	-275.97	-28.60	827.50	1712986.63	14272407.62	39°18'11.2573"N	80°44'36.4715"W	828.00	91.979	1.05	1.00	-0.66	
4837.00	31.430	89.450	4642.37	-290.62	-28.47	876.63	1713035.73	14272407.75	39°18'11.2572"N	80°44'35.8465"W	877.09	91.860	0.75	0.61	-0.85	
4932.00	31.860	89.510	4723.25	-305.16	-28.02	926.47	1713085.55	14272408.20	39°18'11.2603"N	80°44'35.2125"W	926.89	91.732	0.45	0.45	0.06	
5027.00	31.320	89.890	4804.17	-319.87	-27.76	976.23	1713135.30	14272408.46	39°18'11.2614"N	80°44'34.5795"W	976.63	91.629	0.61	-0.57	0.40	
5122.00	31.390	87.790	4885.30	-333.77	-26.75	1025.65	1713184.69	14272409.47	39°18'11.2700"N	80°44'33.9508"W	1026.00	91.494	1.15	0.07	-2.21	
5217.00	31.020	86.680	4966.55	-346.28	-24.38	1074.81	1713233.83	14272411.84	39°18'11.2920"N	80°44'33.3254"W	1075.08	91.300	0.72	-0.39	-1.17	
5312.00	30.110	86.200	5048.35	-357.91	-21.39	1123.02	1713282.03	14272414.83	39°18'11.3203"N	80°44'32.7119"W	1123.23	91.091	0.99	-0.96	-0.51	
5407.00	30.270	85.940	5130.47	-369.11	-18.11	1170.68	1713329.67	14272418.11	39°18'11.3513"N	80°44'32.1055"W	1170.82	90.886	0.22	0.17	-0.27	
5502.00	30.050	88.290	5212.61	-381.14	-15.71	1218.34	1713377.31	14272420.51	39°18'11.3737"N	80°44'31.4992"W	1218.45	90.739	1.26	-0.23	2.47	
5597.00	29.500	89.950	5295.07	-394.62	-14.98	1265.51	1713424.48	14272421.24	39°18'11.3796"N	80°44'30.8991"W	1265.60	90.678	1.04	-0.58	1.75	
5691.00	29.160	91.310	5377.02	-408.94	-15.48	1311.55	1713470.48	14272420.74	39°18'11.3733"N	80°44'30.3135"W	1311.64	90.676	0.80	-0.36	1.45	
5786.00	29.240	90.830	5459.95	-423.69	-16.35	1357.89	1713516.80	14272419.87	39°18'11.3635"N	80°44'29.7240"W	1357.99	90.690	0.26	0.08	-0.51	
5881.00	29.620	89.530	5542.69	-437.85	-16.49	1404.56	1713563.46	14272419.73	39°18'11.3608"N	80°44'29.1303"W	1404.66	90.673	0.78	0.40	-1.37	
5975.00	29.300	91.150	5624.54	-452.00	-16.76	1450.79	1713609.67	14272419.46	39°18'11.3568"N	80°44'28.5423"W	1450.89	90.662	0.91	-0.34	1.72	
6070.00	29.120	90.680	5707.46	-466.64	-17.50	1497.15	1713656.00	14272418.72	39°18'11.3481"N	80°44'27.9526"W	1497.25	90.670	0.31	-0.19	-0.49	
6165.00	29.170	89.170	5790.43	-480.49	-17.44	1543.41	1713702.25	14272418.78	39°18'11.3474"N	80°44'27.3641"W	1543.51	90.647	0.78	0.05	-1.59	
6259.00	28.640	86.900	5872.72	-492.65	-15.89	1588.81	1713747.63	14272420.33	39°18'11.3615"N	80°44'26.7865"W	1588.89	90.573	1.30	-0.56	-2.41	
6353.00	27.930	83.830	5955.50	-502.58	-12.30	1633.19	1713792.00	14272423.91	39°18'11.3956"N	80°44'26.2218"W	1633.24	90.432	1.72	-0.76	-3.27	
6448.00	28.900	81.410	6039.06	-510.49	-6.48	1678.02	1713836.80	14272429.73	39°18'11.4519"N	80°44'25.6514"W	1678.03	90.221	1.58	1.02	-2.55	
6543.00	29.030	79.920	6122.18	-517.02	0.98	1723.41	1713882.18	14272437.19	39°18'11.5244"N	80°44'25.0737"W	1723.41	89.967	0.77	0.14	-1.57	
6597.00	29.080	77.330	6169.38	-519.81	6.15	1749.11	1713907.87	14272442.36	39°18'11.5747"N	80°44'24.7465"W	1749.12	89.799	2.33	0.09	-4.80	BH AT Curve <8-1/2"> (6543')(6597'-17942')
6657.00	28.620	71.910	6221.94	-520.89	13.81	1777.00	1713935.75	14272450.02	39°18'11.6497"N	80°44'24.3914"W	1777.06	89.555	4.42	-0.77	-9.03	
6752.00	29.110	78.380	6305.16	-523.01	25.53	1821.28	1713980.01	14272461.73	39°18'11.7643"N	80°44'23.8278"W	1821.46	89.197	3.33	0.52	6.81	
6847.00	29.010	86.410	6388.27	-522.93	39.42	1865.06	1714023.77	14272475.61	39°18'11.9003"N	80°44'23.2703"W	1865.48	88.789	6.11	-0.11	-12.60	
6941.00	30.540	49.120	6470.01	-511.00	64.22	1904.08	1714062.78	14272500.40	39°18'12.1443"N	80°44'22.7730"W	1905.16	88.068	9.25	1.63	-18.39	

RECEIVED
Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967
Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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]	
6995.00†	31.005	41.097	6516.43	-498.30	83.69	1923.60	1714082.29	14272519.86	39°18'12.3361"N	80°44'22.5240"W	1925.42	87.509	7.65	0.86	-14.86	Sycamore: 6995' MD
7036.00	31.680	35.210	6551.46	-486.27	100.45	1936.76	1714095.44	14272536.62	39°18'12.5014"N	80°44'22.3560"W	1939.36	87.031	7.65	1.65	-14.36	
7131.00	36.450	23.590	6630.22	-449.82	146.77	1962.48	1714121.15	14272582.92	39°18'12.9585"N	80°44'22.0272"W	1967.96	85.723	8.48	5.02	-12.23	
7225.00	38.540	10.060	6704.92	-402.72	201.29	1978.80	1714137.46	14272637.42	39°18'13.4969"N	80°44'21.8176"W	1989.01	84.192	9.02	2.22	-14.39	
7256.00†	39.998	6.803	6728.92	-385.08	220.69	1981.66	1714140.33	14272656.82	39°18'13.6886"N	80°44'21.7804"W	1993.91	83.645	8.14	4.70	-10.51	Middlesex: 7256' MD
7320.00	43.270	0.690	6776.77	-345.46	263.08	1984.37	1714143.03	14272699.19	39°18'14.1075"N	80°44'21.7445"W	2001.73	82.448	8.14	5.11	-9.55	
7415.00	50.820	354.260	6841.49	-278.35	332.41	1981.07	1714139.73	14272768.49	39°18'14.7928"N	80°44'21.7839"W	2008.76	80.475	9.36	7.95	-6.77	
7464.00†	54.888	350.970	6871.08	-239.91	371.12	1976.02	1714134.69	14272807.19	39°18'15.1756"N	80°44'21.8467"W	2010.57	79.363	9.88	8.30	-6.71	Burkett: 7464' MD
7510.00	58.780	348.170	6896.24	-201.70	408.98	1969.03	1714127.70	14272845.02	39°18'15.5499"N	80°44'21.9342"W	2011.06	78.266	9.88	8.46	-6.09	
7518.00†	59.304	347.807	6900.36	-194.87	415.69	1967.60	1714126.27	14272851.73	39°18'15.6162"N	80°44'21.9521"W	2011.03	78.071	7.62	6.55	-4.54	Tully: 7518' MD
7557.00	61.870	346.090	6919.51	-161.01	448.78	1959.93	1714118.60	14272884.81	39°18'15.9435"N	80°44'22.0485"W	2010.65	77.103	7.62	6.58	-4.40	
7604.00	65.750	343.650	6940.25	-118.88	489.47	1948.91	1714107.59	14272925.49	39°18'16.3461"N	80°44'22.1872"W	2009.43	75.902	9.48	8.26	-5.19	
7651.00	70.620	342.070	6957.72	-75.26	531.15	1936.04	1714094.73	14272967.15	39°18'16.7584"N	80°44'22.3494"W	2007.58	74.658	10.82	10.36	-3.36	
7674.00†	72.398	341.997	6965.01	-53.45	551.90	1929.31	1714088.00	14272987.89	39°18'16.9636"N	80°44'22.4342"W	2006.70	74.036	7.73	7.73	-0.32	Marcellus POE: 7674' MD
7699.00	74.330	341.920	6972.17	-29.50	574.67	1921.90	1714080.59	14273010.66	39°18'17.1889"N	80°44'22.5277"W	2005.98	73.353	7.73	7.73	-0.31	
7794.00	80.070	342.360	6993.21	63.10	662.81	1893.50	1714052.20	14273098.76	39°18'18.0609"N	80°44'22.8857"W	2006.16	70.708	6.06	6.04	0.46	
7889.00	85.200	341.390	7005.38	157.28	752.32	1864.20	1714022.91	14273188.23	39°18'18.9464"N	80°44'23.2552"W	2010.28	68.023	5.49	5.40	-1.02	
7983.00	88.770	341.770	7010.32	251.12	841.37	1834.54	1713993.26	14273277.24	39°18'19.8273"N	80°44'23.6292"W	2018.28	65.363	3.82	3.80	0.40	
8078.00	89.600	342.250	7011.67	346.11	931.71	1805.20	1713963.94	14273367.55	39°18'20.7211"N	80°44'23.9991"W	2031.46	62.701	1.01	0.87	0.51	
8173.00	89.720	341.850	7012.24	441.10	1022.09	1775.93	1713934.67	14273457.89	39°18'21.6152"N	80°44'24.3683"W	2049.04	60.079	0.44	0.13	-0.42	
8268.00	91.110	341.830	7011.55	536.09	1112.35	1746.32	1713905.08	14273548.12	39°18'22.5081"N	80°44'24.7416"W	2070.50	57.504	1.46	1.46	-0.02	
8362.00	88.680	341.440	7011.72	630.07	1201.56	1716.70	1713875.47	14273637.29	39°18'23.3906"N	80°44'25.1151"W	2095.43	55.011	2.62	-2.59	-0.41	
8457.00	89.420	341.790	7013.30	725.05	1291.69	1686.75	1713845.53	14273727.39	39°18'24.2824"N	80°44'25.4929"W	2124.52	52.555	0.86	0.78	0.37	
8552.00	87.910	341.520	7015.51	820.01	1381.84	1656.85	1713815.65	14273817.50	39°18'25.1742"N	80°44'25.8699"W	2157.46	50.171	1.61	-1.59	-0.28	
8646.00	88.210	341.790	7018.69	913.94	1471.01	1627.29	1713786.09	14273906.64	39°18'26.0564"N	80°44'26.2428"W	2193.61	47.888	0.43	0.32	0.29	
8740.00	88.000	342.110	7021.80	1007.89	1560.34	1598.18	1713756.99	14273995.93	39°18'26.9401"N	80°44'26.6099"W	2233.57	45.686	0.41	-0.22	0.34	
8835.00	89.450	342.120	7023.91	1102.86	1650.72	1569.01	1713727.84	14274086.28	39°18'27.8342"N	80°44'26.9776"W	2277.43	43.546	1.53	1.53	0.01	
8929.00	89.290	341.770	7024.95	1196.85	1740.09	1539.88	1713698.72	14274175.61	39°18'28.7183"N	80°44'27.3450"W	2323.60	41.507	0.41	-0.17	-0.37	
9024.00	89.320	341.580	7026.10	1291.83	1830.26	1510.01	1713668.86	14274265.75	39°18'29.6104"N	80°44'27.7216"W	2372.76	39.523	0.20	0.03	-0.20	
9118.00	89.690	341.700	7026.91	1385.82	1919.47	1480.40	1713639.27	14274354.92	39°18'30.4930"N	80°44'28.0951"W	2424.04	37.641	0.41	0.39	0.13	

RECEIVED
 Office of Oil and Gas
 AUG 30 2021
 WV Department of
 Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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
9213.00	89.540	340.540	7027.55	1480.78	2009.36	1449.66	1713608.54	14274444.77	39°18'31.3822"N	80°44'28.4829"W	2477.71	35.809	1.23	-0.16	-1.22	
9308.00	90.490	340.800	7027.53	1575.73	2099.00	1418.22	1713577.11	14274534.38	39°18'32.2691"N	80°44'28.8796"W	2533.21	34.045	1.04	1.00	0.27	
9403.00	89.940	342.220	7027.17	1670.72	2189.09	1388.09	1713546.99	14274624.44	39°18'33.1604"N	80°44'29.2596"W	2592.09	32.379	1.60	-0.58	1.49	
9498.00	89.510	341.690	7027.63	1765.71	2279.42	1358.66	1713517.58	14274714.73	39°18'34.0540"N	80°44'29.6307"W	2653.63	30.797	0.72	-0.45	-0.56	
9592.00	90.000	343.820	7028.03	1859.70	2369.14	1330.64	1713489.57	14274804.41	39°18'34.9416"N	80°44'29.9840"W	2717.25	29.321	2.12	0.52	2.05	
9687.00	89.540	342.490	7028.41	1954.70	2460.01	1302.96	1713461.89	14274895.25	39°18'35.8405"N	80°44'30.3329"W	2783.77	27.908	1.28	-0.48	-1.19	
9782.00	89.660	342.300	7029.07	2049.69	2550.56	1274.22	1713433.17	14274985.76	39°18'36.7363"N	80°44'30.6951"W	2851.14	26.546	0.24	0.13	-0.20	
9877.00	89.850	342.020	7029.48	2144.69	2640.99	1245.12	1713404.08	14275076.16	39°18'37.6309"N	80°44'31.0621"W	2919.79	25.242	0.36	0.20	-0.29	
9971.00	89.820	341.510	7029.75	2238.68	2730.27	1215.71	1713374.67	14275165.40	39°18'38.5141"N	80°44'31.4331"W	2988.70	24.002	0.54	-0.03	-0.54	
10066.00	89.850	341.130	7030.02	2333.66	2820.27	1185.28	1713344.26	14275255.36	39°18'39.4044"N	80°44'31.8169"W	3059.21	22.796	0.40	0.03	-0.40	
10161.00	89.910	341.310	7030.22	2428.64	2910.21	1154.70	1713313.69	14275345.27	39°18'40.2943"N	80°44'32.2028"W	3130.92	21.642	0.20	0.06	0.19	
10255.00	89.850	341.110	7030.42	2522.61	2999.20	1124.42	1713283.42	14275434.22	39°18'41.1747"N	80°44'32.5847"W	3203.05	20.551	0.22	-0.06	-0.21	
10350.00	89.750	341.030	7030.75	2617.58	3089.06	1093.60	1713252.62	14275524.05	39°18'42.0637"N	80°44'32.9736"W	3276.93	19.495	0.13	-0.11	-0.08	
10445.00	90.280	343.420	7030.73	2712.57	3179.52	1064.60	1713223.63	14275614.47	39°18'42.9586"N	80°44'33.3392"W	3353.02	18.512	2.58	0.56	2.52	
10539.00	89.540	342.650	7030.87	2806.57	3269.43	1037.17	1713196.21	14275704.34	39°18'43.8479"N	80°44'33.6849"W	3430.00	17.601	1.14	-0.79	-0.82	
10634.00	90.220	342.360	7031.07	2901.57	3360.03	1008.61	1713167.66	14275794.91	39°18'44.7443"N	80°44'34.0450"W	3508.15	16.709	0.78	0.72	-0.31	
10729.00	90.220	342.750	7030.71	2996.57	3450.66	980.13	1713139.19	14275885.50	39°18'45.6408"N	80°44'34.4041"W	3587.16	15.857	0.41	0.00	0.41	
10823.00	89.690	342.470	7030.78	3090.57	3540.36	952.04	1713111.11	14275975.17	39°18'46.5282"N	80°44'34.7582"W	3666.14	15.051	0.64	-0.56	-0.30	
10918.00	90.400	342.420	7030.71	3185.57	3630.94	923.39	1713082.47	14276065.71	39°18'47.4242"N	80°44'35.1195"W	3746.51	14.268	0.75	0.75	-0.05	
11013.00	93.510	344.290	7027.47	3280.48	3721.89	896.19	1713055.29	14276156.63	39°18'48.3239"N	80°44'35.4622"W	3828.27	13.539	3.82	3.27	1.97	
11108.00	89.170	341.070	7025.24	3375.42	3812.52	867.93	1713027.03	14276247.22	39°18'49.2205"N	80°44'35.8185"W	3910.07	12.825	5.69	-4.57	-3.39	
11202.00	90.060	342.280	7025.88	3469.41	3901.75	838.37	1712997.49	14276336.42	39°18'50.1032"N	80°44'36.1913"W	3990.81	12.127	1.60	0.95	1.29	
11297.00	90.030	342.180	7025.80	3564.41	3992.22	809.38	1712968.51	14276426.85	39°18'50.9982"N	80°44'36.5569"W	4073.44	11.461	0.11	-0.03	-0.11	
11392.00	90.150	341.230	7025.65	3659.40	4082.42	779.56	1712938.70	14276517.01	39°18'51.8905"N	80°44'36.9331"W	4156.18	10.811	1.01	0.13	-1.00	
11487.00	90.650	343.370	7024.99	3754.39	4172.91	750.68	1712909.83	14276607.47	39°18'52.7857"N	80°44'37.2973"W	4239.89	10.198	2.31	0.53	2.25	
11581.00	90.180	343.530	7024.31	3848.37	4263.01	723.90	1712883.07	14276697.54	39°18'53.6770"N	80°44'37.6347"W	4324.04	9.637	0.53	-0.50	0.17	
11676.00	90.250	344.480	7023.95	3943.34	4354.33	697.73	1712856.90	14276788.82	39°18'54.5803"N	80°44'37.9645"W	4409.88	9.104	1.00	0.07	1.00	
11770.00	89.510	344.740	7024.15	4037.27	4444.96	672.78	1712831.96	14276879.41	39°18'55.4767"N	80°44'38.2786"W	4495.59	8.607	0.83	-0.79	0.28	
11865.00	89.480	344.330	7024.99	4132.21	4536.52	647.45	1712806.64	14276970.93	39°18'56.3824"N	80°44'38.5976"W	4582.49	8.122	0.43	-0.03	-0.43	
11960.00	89.420	342.260	7025.90	4227.19	4627.50	620.14	1712779.35	14277061.88	39°18'57.2824"N	80°44'38.9417"W	4668.87	7.633	2.18	-0.06	-2.18	

RECEIVED
 Office of Oil and Gas
 WV Department of
 Environmental Protection
 AUG 30 2021



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967

Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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
12054.00	90.000	342.710	7026.37	4321.19	4717.14	591.86	1712751.07	14277151.48	39°18'58.1691"N	80°44'39.2984"W	4754.13	7.151	0.78	0.62	0.48	
12149.00	90.740	343.370	7025.76	4416.18	4808.01	564.14	1712723.37	14277242.31	39°18'59.0680"N	80°44'39.6477"W	4840.99	6.692	1.04	0.78	0.69	
12243.00	90.090	343.010	7025.08	4510.17	4897.99	536.96	1712696.20	14277332.26	39°18'59.9581"N	80°44'39.9903"W	4927.33	6.256	0.79	-0.69	-0.38	
12338.00	90.860	343.670	7024.29	4605.16	4988.99	509.73	1712668.97	14277423.23	39°19'0.8583"N	80°44'40.3336"W	5014.97	5.834	1.07	0.81	0.69	
12432.00	90.460	344.190	7023.21	4699.12	5079.32	483.71	1712642.97	14277513.51	39°19'1.7517"N	80°44'40.6614"W	5102.30	5.440	0.70	-0.43	0.55	
12527.00	89.110	342.680	7023.57	4794.10	5170.37	456.62	1712615.89	14277604.53	39°19'2.6524"N	80°44'41.0027"W	5190.49	5.047	2.13	-1.42	-1.59	
12621.00	89.320	343.560	7024.85	4888.09	5260.31	429.33	1712588.61	14277694.43	39°19'3.5421"N	80°44'41.3467"W	5277.80	4.666	0.96	0.22	0.94	
12716.00	89.910	343.040	7025.49	4983.08	5351.30	402.03	1712561.32	14277785.39	39°19'4.4422"N	80°44'41.6908"W	5366.38	4.296	0.83	0.62	-0.55	
12810.00	91.140	344.270	7024.63	5077.05	5441.49	375.58	1712534.88	14277875.55	39°19'5.3344"N	80°44'42.0241"W	5454.44	3.948	1.85	1.31	1.31	
12905.00	90.150	344.210	7023.56	5172.00	5532.91	349.78	1712509.09	14277966.93	39°19'6.2387"N	80°44'42.3491"W	5543.86	3.617	1.04	-1.04	-0.06	
13000.00	89.850	344.600	7023.56	5266.95	5624.42	324.24	1712483.56	14278058.40	39°19'7.1438"N	80°44'42.6708"W	5633.75	3.299	0.52	-0.32	0.41	
13095.00	90.030	343.390	7023.66	5361.91	5715.73	298.05	1712457.38	14278149.68	39°19'8.0470"N	80°44'43.0008"W	5723.50	2.985	1.29	0.19	-1.27	
13190.00	89.540	343.970	7024.02	5456.89	5806.90	271.35	1712430.70	14278240.81	39°19'8.9489"N	80°44'43.3372"W	5813.24	2.675	0.80	-0.52	0.61	
13284.00	89.820	343.530	7024.54	5550.87	5897.15	245.05	1712404.40	14278331.02	39°19'9.8415"N	80°44'43.6686"W	5902.23	2.380	0.55	0.30	-0.47	
13379.00	89.140	343.120	7025.40	5645.86	5988.15	217.79	1712377.16	14278421.98	39°19'10.7417"N	80°44'44.0122"W	5992.11	2.083	0.84	-0.72	-0.43	
13474.00	89.290	343.600	7026.71	5740.84	6079.16	190.59	1712349.97	14278512.96	39°19'11.6420"N	80°44'44.3550"W	6082.15	1.796	0.53	0.16	0.51	
13568.00	90.030	342.140	7027.26	5834.83	6168.98	162.91	1712322.29	14278602.75	39°19'12.5306"N	80°44'44.7041"W	6171.13	1.513	1.74	0.79	-1.55	
13664.00	89.910	344.370	7027.31	5930.81	6260.91	135.25	1712294.65	14278694.64	39°19'13.4399"N	80°44'45.0527"W	6262.37	1.238	2.33	-0.12	2.32	
13758.00	89.780	344.180	7027.57	6024.77	6351.39	109.77	1712269.18	14278785.08	39°19'14.3349"N	80°44'45.3736"W	6352.34	0.990	0.24	-0.14	-0.20	
13853.00	89.260	343.770	7028.36	6119.73	6442.69	83.55	1712242.97	14278876.35	39°19'15.2380"N	80°44'45.7040"W	6443.24	0.743	0.70	-0.55	-0.43	
13948.00	89.940	344.770	7029.03	6214.69	6534.13	57.80	1712217.22	14278967.75	39°19'16.1425"N	80°44'46.0285"W	6534.39	0.507	1.27	0.72	1.05	
14042.00	89.480	344.270	7029.50	6308.63	6624.72	32.71	1712192.14	14279058.31	39°19'17.0385"N	80°44'46.3445"W	6624.80	0.283	0.72	-0.49	-0.53	
14137.00	89.380	344.160	7030.45	6403.58	6716.13	6.87	1712166.31	14279149.68	39°19'17.9427"N	80°44'46.6700"W	6716.14	0.059	0.16	-0.11	-0.12	
14232.00	89.410	343.990	7031.45	6498.54	6807.48	-19.20	1712140.26	14279241.00	39°19'18.8463"N	80°44'46.9984"W	6807.51	359.838	0.18	0.03	-0.18	
14326.00	89.450	341.330	7032.39	6592.53	6897.20	-47.21	1712112.26	14279330.68	39°19'19.7338"N	80°44'47.3516"W	6897.36	359.608	2.83	0.04	-2.83	
14421.00	89.630	341.310	7033.15	6687.50	6987.19	-77.64	1712081.84	14279420.63	39°19'20.6241"N	80°44'47.7356"W	6987.62	359.363	0.19	0.19	-0.02	
14516.00	89.880	342.330	7033.55	6782.49	7077.45	-107.28	1712052.22	14279510.85	39°19'21.5170"N	80°44'48.1095"W	7078.26	359.132	1.11	0.26	1.07	
14611.00	89.720	342.450	7033.89	6877.49	7167.99	-136.02	1712023.49	14279601.36	39°19'22.4127"N	80°44'48.4720"W	7169.28	358.913	0.21	-0.17	0.13	
14706.00	89.170	342.340	7034.81	6972.49	7258.54	-164.75	1711994.77	14279691.87	39°19'23.3084"N	80°44'48.8343"W	7260.41	358.700	0.59	-0.58	-0.12	
14800.00	89.080	345.550	7036.24	7066.43	7348.85	-190.74	1711968.79	14279782.15	39°19'24.2017"N	80°44'49.1618"W	7351.33	358.513	3.42	-0.10	3.41	

RECEIVED
 Office of Oil and Gas
 AUG 30 2021
 WV Department of
 Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'
Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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
14895.00	90.740	346.650	7036.39	7161.24	7441.06	-213.56	1711945.98	14279874.33	39°19'25.1138"N	80°44'49.4489"W	7444.13	358.356	2.10	1.75	1.16	
14990.00	88.740	341.470	7036.82	7256.17	7532.38	-239.64	1711919.91	14279965.60	39°19'26.0170"N	80°44'49.7775"W	7536.19	358.178	5.84	-2.11	-5.45	
15084.00	89.110	341.760	7038.59	7350.14	7621.56	-269.28	1711890.28	14280054.75	39°19'26.8993"N	80°44'50.1516"W	7626.32	357.976	0.50	0.39	0.31	
15179.00	89.140	341.960	7040.04	7445.12	7711.83	-298.85	1711860.71	14280144.98	39°19'27.7923"N	80°44'50.5247"W	7717.62	357.781	0.21	0.03	0.21	
15274.00	89.230	341.690	7041.39	7540.11	7802.08	-328.48	1711831.10	14280235.20	39°19'28.6851"N	80°44'50.8985"W	7808.99	357.589	0.30	0.09	-0.28	
15369.00	89.260	341.930	7042.64	7635.09	7892.32	-358.14	1711801.45	14280325.41	39°19'29.5778"N	80°44'51.2726"W	7900.45	357.402	0.25	0.03	0.25	
15464.00	89.230	341.630	7043.89	7730.08	7982.55	-387.84	1711771.77	14280415.60	39°19'30.4705"N	80°44'51.6473"W	7991.97	357.218	0.32	-0.03	-0.32	
15558.00	89.080	341.700	7045.28	7824.06	8071.77	-417.40	1711742.21	14280504.78	39°19'31.3531"N	80°44'52.0204"W	8082.56	357.040	0.18	-0.16	0.07	
15653.00	88.830	341.950	7047.01	7919.03	8162.02	-447.03	1711712.59	14280594.99	39°19'32.2458"N	80°44'52.3942"W	8174.25	356.865	0.37	-0.26	0.26	
15748.00	88.950	341.650	7048.85	8014.01	8252.25	-476.70	1711682.94	14280685.19	39°19'33.1385"N	80°44'52.7685"W	8268.00	356.694	0.34	0.13	-0.32	
15843.00	89.020	341.360	7050.53	8108.98	8342.33	-506.83	1711652.82	14280775.23	39°19'34.0296"N	80°44'53.1487"W	8357.71	356.523	0.31	0.07	-0.31	
15938.00	89.020	341.600	7052.16	8203.95	8432.39	-537.00	1711622.66	14280865.26	39°19'34.9206"N	80°44'53.5295"W	8449.48	356.356	0.25	0.00	0.25	
16032.00	89.230	342.030	7053.59	8297.93	8521.69	-566.33	1711593.34	14280954.52	39°19'35.8040"N	80°44'53.8996"W	8540.49	356.198	0.51	0.22	0.46	
16127.00	88.460	341.110	7055.51	8392.90	8611.80	-596.36	1711563.33	14281044.59	39°19'36.6954"N	80°44'54.2785"W	8632.42	356.039	1.26	-0.81	-0.97	
16222.00	89.140	341.840	7057.50	8487.86	8701.85	-626.54	1711533.16	14281134.62	39°19'37.5863"N	80°44'54.6593"W	8724.38	355.882	1.05	0.72	0.77	
16317.00	89.020	341.920	7059.02	8582.84	8792.13	-656.08	1711503.63	14281224.86	39°19'38.4794"N	80°44'55.0320"W	8816.57	355.732	0.15	-0.13	0.08	
16412.00	89.110	341.630	7060.57	8677.82	8882.35	-685.79	1711473.94	14281315.04	39°19'39.3719"N	80°44'55.4069"W	8908.79	355.585	0.32	0.09	-0.31	
16507.00	89.050	341.850	7062.10	8772.80	8972.56	-715.55	1711444.19	14281405.21	39°19'40.2643"N	80°44'55.7824"W	9001.04	355.440	0.24	-0.06	0.23	
16601.00	89.110	342.020	7063.61	8866.78	9061.91	-744.69	1711415.05	14281494.53	39°19'41.1482"N	80°44'56.1501"W	9092.46	355.302	0.19	0.06	0.18	
16696.00	89.420	342.130	7064.83	8961.77	9152.29	-773.93	1711385.83	14281584.88	39°19'42.0423"N	80°44'56.5190"W	9184.96	355.166	0.35	0.33	0.12	
16790.00	88.770	341.840	7066.31	9055.76	9241.67	-803.00	1711356.77	14281674.22	39°19'42.9265"N	80°44'56.8857"W	9276.49	355.034	0.76	-0.69	-0.31	
16885.00	89.080	341.470	7068.10	9150.73	9331.83	-832.89	1711326.89	14281764.34	39°19'43.8184"N	80°44'57.2630"W	9368.92	354.900	0.51	0.33	-0.39	
16980.00	88.800	341.370	7069.85	9245.69	9421.86	-863.16	1711296.64	14281854.34	39°19'44.7091"N	80°44'57.6449"W	9461.32	354.766	0.31	-0.29	-0.11	
17074.00	90.220	342.850	7070.66	9339.68	9511.31	-892.03	1711267.77	14281943.75	39°19'45.5939"N	80°44'58.0092"W	9553.05	354.642	2.18	1.51	1.57	
17169.00	89.420	342.030	7070.95	9434.68	9601.88	-920.69	1711239.12	14282034.29	39°19'46.4899"N	80°44'58.3707"W	9645.92	354.523	1.21	-0.84	-0.86	
17264.00	88.520	341.050	7072.66	9529.65	9691.97	-950.77	1711209.06	14282124.35	39°19'47.3812"N	80°44'58.7503"W	9738.50	354.397	1.40	-0.95	-1.03	
17358.00	89.540	341.250	7074.25	9623.61	9780.92	-981.13	1711178.71	14282213.25	39°19'48.2611"N	80°44'59.1336"W	9830.00	354.272	1.11	1.09	0.21	
17453.00	89.600	342.140	7074.97	9718.60	9871.11	-1010.97	1711148.88	14282303.41	39°19'49.1533"N	80°44'59.5101"W	9922.74	354.152	0.94	0.06	0.94	
17548.00	89.350	342.060	7075.84	9813.59	9961.51	-1040.17	1711119.70	14282393.77	39°19'50.0476"N	80°44'59.8785"W	10015.66	354.039	0.28	-0.26	-0.08	
17642.00	89.290	342.060	7076.95	9907.58	10050.93	-1069.12	1711090.76	14282483.16	39°19'50.9322"N	80°45'00.2438"W	10107.63	353.928	0.06	-0.06	0.00	

RECEIVED
Office of Oil and Gas

AUG 30 2021

WV Department of
Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'
Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (215 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 ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
17737.00	89.140	341.520	7078.25	10002.56	10141.16	-1098.80	1711061.08	14282573.36	39°19'51.8248"N	80°45'0.6184"W	10200.52	353.816	0.59	-0.16	-0.57	
17831.00	89.420	341.840	7079.44	10096.55	10230.39	-1128.35	1711031.55	14282662.55	39°19'52.7075"N	80°45'0.9912"W	10292.43	353.706	0.45	0.30	0.34	
17926.00	88.650	341.000	7081.04	10191.51	10320.43	-1158.61	1711001.30	14282752.55	39°19'53.5982"N	80°45'1.3732"W	10385.26	353.595	1.20	-0.81	-0.88	
17942.00	88.650	341.520	7081.41	10207.51	10335.57	-1163.75	1710996.16	14282767.69	39°19'53.7481"N	80°45'1.4380"W	10400.88	353.576	3.25	0.00	3.25	
17967.00‡	88.650	341.520	7082.00	10232.50	10359.28	-1171.67	1710988.24	14282791.38	39°19'53.9826"N	80°45'1.5380"W	10425.33	353.547	0.00	0.00	0.00	Projected MD at TD: 17967'

HOLE & CASING SECTIONS - Ref Wellbore: Whitehill Unit 2H AWB Ref Wellpath: Whitehill Unit 2H AWP Proj: 17967'										
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	-0.14	0.27	
17.5in Open Hole	110.00	451.00	341.00	110.00	450.96	-0.14	0.27	-3.02	4.36	
13.375in Casing Surface	30.00	451.00	421.00	30.00	450.96	0.00	0.00	-3.02	4.36	
12.25in Open Hole	451.00	2615.00	2164.00	450.96	2611.75	-3.02	4.36	-40.38	77.23	
9.625in Casing Intermediate	30.00	2615.00	2585.00	30.00	2611.75	0.00	0.00	-40.38	77.23	
8.75in Open Hole	2615.00	6622.00	4007.00	2611.75	6191.25	-40.38	77.23	9.04	1760.87	
8.5in Open Hole	6622.00	17967.00	11345.00	6191.25	7082.00	9.04	1760.87	10359.28	-1171.67	
5.5in Casing Production	30.00	17967.00	17937.00	30.00	7082.00	0.00	0.00	10359.28	-1171.67	

RECEIVED
Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Whitehill Unit 2H POE Rev-2	6961.00	537.00	1926.31	1714085.00	14272973.00	39°18'16.8165"N	80°44'22.4729"W	point
Whitehill Unit 2H BHL Rev-2	7005.00	10368.90	-1170.91	1710989.00	14282801.00	39°19'54.0776"N	80°45'1.5280"W	point
Whitehill Unit 2H LP Rev-2	7005.00	768.60	1853.36	1714012.07	14273204.50	39°18'19.1075"N	80°44'23.3925"W	point
Whitehill Unit 2H 50' L/R Hard Line Rev-2	7250.00	5452.95	377.70	1712537.00	14277887.00	39°19'5.4476"N	80°44'41.9967"W	rectangle
2D Rectangle 10308.2 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Whitehill Unit 2H AWB				Ref Wellpath: Whitehill Unit 2H AWP Proj: 17967'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date		
30.00	609.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <12-1/4"> (100'-594')	Whitehill Unit 2H AWB	13/Dec/2020		
609.00	2517.00	OWSG MWD rev2 + HRGM	02 Premier MWD <12-1/4"> (594')(707'-2502')	Whitehill Unit 2H AWB	13/Dec/2020		
2517.00	6543.00	OWSG MWD rev2 + HRGM	03 Premier MWD <8-3/4"> (2502')(2639'-6528')	Whitehill Unit 2H AWB	13/Dec/2020		
6543.00	17967.00	BH AutoTrak Curve/Express (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6543')(6597'-17942')	Whitehill Unit 2H AWB	16/Jan/2021		

RECEIVED
 Office of Oil and Gas
 WV Department of
 Environmental Protection
 AUG 30 2021



Actual Wellpath Report

Whitehill Unit 2H AWP Proj: 17967'

Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Whitehill Unit 2H
Field	Doddridge	API	47-017-06903-0000
Facility	Peggy June Pad	Wellbore	Whitehill Unit 2H AWB
Slot	Slot #06		

COMMENTS

Wellpath general comments

API: 47-017-06903-0000
BH Job #: 110695181
Rig: H&P 519
Duration: 1/18/2021-1/22/2021
Gyrodatta MS Gyro <12-1/4"> (100'-594')
Premier MWD <12-1/4"> (594')(707'-2502')
Premier MWD <8-3/4"> (2502')(2639'-6528')
BH AT Curve <8-1/2"> (6543')(6597'-17942')
Sycamore: 6995' MD
Middlesex: 7256' MD
Burkett: 7464' MD
Tully: 7518' MD
Marcellus POE: 7674' MD
Projected MD at TD: 17967'

RECEIVED
Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection