



ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
Field: Ritchie
Facility: Pinewood Pad

Slot: Slot C
Well: Conklin Unit 1H
Wellbore: Conklin Unit 1H PWB



Plot reference wellpath is Conklin Unit 1H PWB Rev-B.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 distances
H&P 519 (RKB) to Mean Sea Level: 1096 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1096 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edgar on 2024-05-30; Database: WVA_MPL_EASTERNUS_Deis

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Pinewood Pad	1631724.300	14274277.960	39°18'30.7535"N	81°01'S0.6280"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot C	0.47	15.01	1631739.300	14274278.430	39°18'30.7582"N
Comment	Conklin Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot C)	30ft				
Mean Sea Level to Ground level (At Slot: Slot C)	-1096ft				
H&P 519 (RKB) to Mean Sea Level	1096ft				

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3011.90	0.860	147.400	3010.80	-19.53	17.10	-24.02
Proj. to Bottom	3084.00	0.860	147.400	3083.79	-20.45	17.69	-25.08
KOP 1	3164.00	0.860	147.400	3163.78	-21.46	18.33	-26.25
End of 3D Arc	3516.04	6.260	300.975	3515.20	-13.80	3.28	-14.12
Curve KOP	5621.42	6.260	300.975	5608.02	104.36	-193.56	161.54
POE	6429.21	69.353	341.062	6218.00	530.71	-373.48	8.00
Landing Pt.	6687.29	90.000	341.062	6264.00	769.57	-455.44	8.00
BHL	22723.46	90.000	341.062	6264.00	15937.69	-5659.96	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Conklin Unit 1H	Conklin Unit 1H AWP	Conklin Unit 1H AWP Proj: 22701'
Slot C	Conklin Unit 1H	Conklin Unit 1H PWB	Conklin Unit 1H PWB Rev-B.0

Gyrodatta MS Gyro <17-1/2"> (100'-879') : 0.17" Inc. 100.00ft MD. 100.00ft TVD. 0.02ft VS

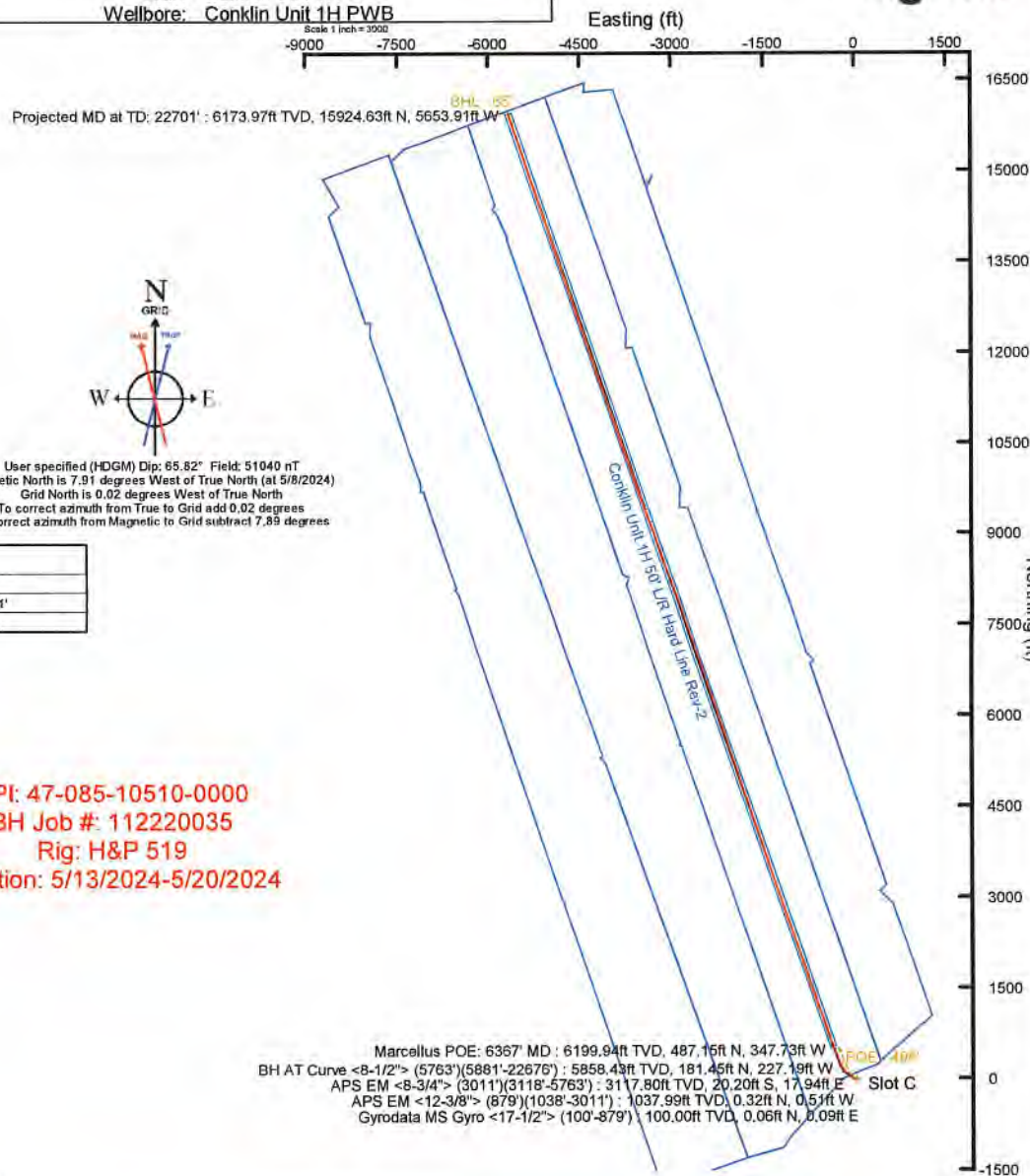
APS EM <12-3/8"> (879')(1036'-3011') : 0.33" Inc. 1036.00ft MD. 1037.99ft TVD. 0.47ft VS

APS EM <8-3/4"> (3011')(3118'-5763') : 0.44" Inc. 3118.00ft MD. 3117.80ft TVD. -24.93ft VS

BH AT Curve <8-1/2"> (5763')(5881'-22676') : 20.64" Inc. 5881.00ft MD. 5858.43ft TVD. 245.36ft VS

Marcellus POE: 6367' MD: 65.29" Inc. 6367.00ft MD. 6199.94ft TVD. 573.64ft VS

API: 47-085-10510-0000
BH Job #: 112220035
Rig: H&P 519
Duration: 5/13/2024-5/20/2024



Marcellus POE: 6367' MD : 6199.94ft TVD. 487.16ft N. 347.73ft W
BH AT Curve <8-1/2"> (5763')(5881'-22676') : 5858.43ft TVD. 181.45ft N. 227.19ft W
APS EM <8-3/4"> (3011')(3118'-5763') : 3117.80ft TVD. 20.20ft S. 17.94ft E
APS EM <12-3/8"> (879')(1036'-3011') : 1037.99ft TVD. 0.32ft N. 0.51ft W
Gyrodatta MS Gyro <17-1/2"> (100'-879') : 100.00ft TVD. 0.06ft N. 0.09ft E

Projected MD at TD: 22701' : 90.58" Inc. 22701.00ft MD. 6173.97ft TVD. 16897.59ft VS

Vertical Section (ft)
Azimuth 341.06° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	5/30/2024 at 1:24:19 PM
Convergence at slot	0.02° West	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	0.47	15.01	1631739.30	14274278.43	39°18'30.7582"N	81°01'50.4371"W
Facility Reference Pt			1631724.30	14274277.96	39°18'30.7535"N	81°01'50.6280"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	1096.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1096.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot C)	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	341.06°



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Page 2 of 12



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Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWP
Slot	Slot C		

WELLPATH DATA (245 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
0.00†	0.000	57.500	0.00	0.00	0.00	0.00	1631739.30	14274278.43	39°18'30.7582"N	81°01'50.4371"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	57.500	30.00	0.00	0.00	0.00	1631739.30	14274278.43	39°18'30.7582"N	81°01'50.4371"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.170	57.500	100.00	0.02	0.06	0.09	1631739.39	14274278.49	39°18'30.7587"N	81°01'50.4360"W	0.10	57.500	0.24	0.24	0.00	Gyrodata MS Gyro <17-1/2"> (100'-879')
200.00	0.250	0.500	200.00	0.26	0.35	0.21	1631739.51	14274278.78	39°18'30.7617"N	81°01'50.4344"W	0.41	31.250	0.21	0.08	-57.00	
300.00	0.180	10.250	300.00	0.61	0.73	0.24	1631739.54	14274279.16	39°18'30.7654"N	81°01'50.4340"W	0.77	18.600	0.08	-0.07	9.75	
400.00	0.210	354.360	400.00	0.92	1.06	0.25	1631739.55	14274279.49	39°18'30.7687"N	81°01'50.4339"W	1.09	13.455	0.06	0.03	-15.89	
500.00	0.230	344.350	500.00	1.30	1.44	0.18	1631739.48	14274279.87	39°18'30.7724"N	81°01'50.4348"W	1.45	7.218	0.04	0.02	-10.01	
600.00	0.200	263.610	600.00	1.54	1.61	-0.05	1631739.25	14274280.04	39°18'30.7741"N	81°01'50.4377"W	1.61	358.390	0.28	-0.03	-80.74	
700.00	0.340	244.300	700.00	1.54	1.46	-0.49	1631738.81	14274279.89	39°18'30.7727"N	81°01'50.4433"W	1.54	341.639	0.17	0.14	-19.31	
800.00	0.280	218.020	799.99	1.38	1.14	-0.90	1631738.40	14274279.57	39°18'30.7695"N	81°01'50.4486"W	1.46	321.673	0.15	-0.06	-26.28	
879.00	0.220	165.470	878.99	1.12	0.84	-0.98	1631738.32	14274279.27	39°18'30.7665"N	81°01'50.4497"W	1.30	310.619	0.29	-0.08	-66.52	
1038.00	0.330	120.540	1037.99	0.47	0.32	-0.51	1631738.79	14274278.75	39°18'30.7613"N	81°01'50.4437"W	0.60	301.630	0.15	0.07	-28.26	APS EM <12-3/8"> (879')(1038'-3011')
1132.00	0.440	127.410	1131.99	-0.04	-0.04	0.01	1631739.31	14274278.39	39°18'30.7578"N	81°01'50.4371"W	0.04	171.614	0.13	0.12	7.31	
1227.00	0.600	126.090	1226.99	-0.75	-0.55	0.70	1631740.00	14274277.88	39°18'30.7527"N	81°01'50.4283"W	0.89	128.499	0.17	0.17	-1.39	
1321.00	0.640	128.490	1320.98	-1.60	-1.17	1.51	1631740.81	14274277.26	39°18'30.7466"N	81°01'50.4180"W	1.91	127.875	0.05	0.04	2.55	
1416.00	0.690	138.790	1415.97	-2.57	-1.93	2.30	1631741.60	14274276.50	39°18'30.7391"N	81°01'50.4079"W	3.00	130.051	0.14	0.05	10.84	
1510.00	0.750	130.210	1509.97	-3.63	-2.76	3.14	1631742.44	14274275.68	39°18'30.7310"N	81°01'50.3972"W	4.18	131.254	0.13	0.06	-9.13	
1604.00	0.930	127.520	1603.96	-4.79	-3.62	4.22	1631743.51	14274274.81	39°18'30.7225"N	81°01'50.3835"W	5.55	130.626	0.20	0.19	-2.86	
1698.00	1.050	137.170	1697.94	-6.21	-4.71	5.41	1631744.70	14274273.72	39°18'30.7116"N	81°01'50.3683"W	7.17	131.080	0.22	0.13	10.27	
1793.00	0.710	120.000	1792.93	-7.45	-5.65	6.51	1631745.81	14274272.79	39°18'30.7024"N	81°01'50.3543"W	8.62	130.942	0.45	-0.36	-18.07	
1887.00	0.910	138.570	1886.92	-8.58	-6.50	7.51	1631746.80	14274271.94	39°18'30.6940"N	81°01'50.3416"W	9.93	130.876	0.35	0.21	19.76	
1981.00	0.950	141.680	1980.91	-10.01	-7.67	8.48	1631747.78	14274270.77	39°18'30.6824"N	81°01'50.3292"W	11.44	132.108	0.07	0.04	3.31	
2076.00	1.020	137.280	2075.90	-11.52	-8.91	9.55	1631748.84	14274269.53	39°18'30.6702"N	81°01'50.3157"W	13.06	133.018	0.11	0.07	-4.63	
2170.00	0.960	143.940	2169.88	-13.04	-10.16	10.58	1631749.87	14274268.28	39°18'30.6578"N	81°01'50.3025"W	14.66	133.844	0.14	-0.06	7.09	
2264.00	0.940	138.400	2263.87	-14.51	-11.37	11.55	1631750.85	14274267.06	39°18'30.6458"N	81°01'50.2901"W	16.21	134.548	0.10	-0.02	-5.89	
2359.00	0.850	142.970	2358.86	-15.89	-12.52	12.49	1631751.79	14274265.92	39°18'30.6345"N	81°01'50.2781"W	17.68	135.052	0.12	-0.09	4.81	
2453.00	0.790	142.240	2452.85	-17.17	-13.59	13.31	1631752.61	14274264.85	39°18'30.6240"N	81°01'50.2677"W	19.02	135.586	0.06	-0.06	-0.78	
2548.00	0.940	147.330	2547.84	-18.55	-14.76	14.13	1631753.43	14274263.68	39°18'30.6124"N	81°01'50.2573"W	20.43	136.243	0.18	0.16	5.36	
2642.00	0.760	153.020	2641.83	-19.91	-15.96	14.83	1631754.13	14274262.47	39°18'30.6005"N	81°01'50.2484"W	21.79	137.106	0.21	-0.19	6.05	
2736.00	0.720	148.550	2735.82	-21.11	-17.02	15.42	1631754.72	14274261.41	39°18'30.5900"N	81°01'50.2409"W	22.97	137.825	0.07	-0.04	-4.76	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 3 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
2830.00	0.600	141.650	2829.81	-22.15	-17.91	16.04	1631755.33	14274260.52	39°18'30.5812"N	81°01'50.2331"W	24.04	138.165	0.15	-0.13	-7.34	
2924.00	0.500	149.320	2923.81	-23.01	-18.65	16.55	1631755.84	14274259.79	39°18'30.5739"N	81°01'50.2265"W	24.94	138.416	0.13	-0.11	8.16	
3011.00	0.860	147.400	3010.80	-24.02	-19.53	17.10	1631756.39	14274258.91	39°18'30.5652"N	81°01'50.2196"W	25.95	138.800	0.41	0.41	-2.21	
3118.00	0.440	90.010	3117.80	-24.93	-20.20	17.94	1631757.23	14274258.23	39°18'30.5586"N	81°01'50.2088"W	27.02	138.399	0.68	-0.39	-53.64	APS EM <8-3/4"> (3011')(3118'-5763')
3213.00	2.300	307.490	3212.77	-23.46	-19.04	16.79	1631756.08	14274259.39	39°18'30.5700"N	81°01'50.2234"W	25.39	138.598	2.80	1.96	-150.02	
3307.00	3.460	297.630	3306.65	-19.83	-16.58	12.78	1631752.08	14274261.86	39°18'30.5944"N	81°01'50.2745"W	20.94	142.373	1.34	1.23	-10.49	
3402.00	4.930	304.300	3401.40	-14.48	-12.95	6.87	1631746.17	14274265.48	39°18'30.6302"N	81°01'50.3497"W	14.66	152.059	1.63	1.55	7.02	
3497.00	6.830	309.520	3495.89	-6.39	-7.06	-0.86	1631738.44	14274271.38	39°18'30.6885"N	81°01'50.4481"W	7.11	186.961	2.08	2.00	5.49	
3591.00	6.940	307.850	3589.22	3.12	-0.01	-9.66	1631729.65	14274278.42	39°18'30.7580"N	81°01'50.5600"W	9.66	269.918	0.24	0.12	-1.78	
3686.00	6.500	303.400	3683.56	12.18	6.47	-18.68	1631720.63	14274284.90	39°18'30.8221"N	81°01'50.6748"W	19.77	289.100	0.72	-0.46	-4.68	
3780.00	6.140	298.970	3776.99	20.12	11.83	-27.52	1631711.79	14274290.26	39°18'30.8750"N	81°01'50.7873"W	29.95	293.266	0.64	-0.38	-4.71	
3875.00	5.510	294.640	3871.50	27.03	16.19	-36.11	1631703.20	14274294.61	39°18'30.9181"N	81°01'50.8966"W	39.57	294.144	0.81	-0.66	-4.66	
3970.00	5.300	289.640	3966.08	32.91	19.56	-44.39	1631694.92	14274297.98	39°18'30.9513"N	81°01'51.0020"W	48.51	293.774	0.53	-0.22	-5.16	
4065.00	5.870	306.620	4060.63	39.65	23.93	-52.43	1631686.90	14274302.35	39°18'30.9945"N	81°01'51.1042"W	57.63	294.533	1.83	0.60	17.87	
4159.00	6.050	312.140	4154.13	47.95	30.12	-59.96	1631679.37	14274308.54	39°18'31.0557"N	81°01'51.2000"W	67.10	296.673	0.64	0.19	5.87	
4254.00	5.240	309.380	4248.67	56.02	36.23	-67.02	1631672.30	14274314.65	39°18'31.1161"N	81°01'51.2900"W	76.19	298.395	0.90	-0.85	-2.91	
4348.00	5.970	309.630	4342.22	63.85	42.07	-74.11	1631665.22	14274320.49	39°18'31.1738"N	81°01'51.3801"W	85.22	299.585	0.78	0.78	0.27	
4443.00	7.040	310.960	4436.60	73.10	49.04	-82.31	1631657.03	14274327.45	39°18'31.2426"N	81°01'51.4845"W	95.81	300.787	1.14	1.13	1.40	
4537.00	6.840	306.910	4529.91	82.72	56.18	-91.13	1631648.20	14274334.59	39°18'31.3131"N	81°01'51.5968"W	107.06	301.651	0.56	-0.21	-4.31	
4631.00	5.970	303.870	4623.33	91.24	62.26	-99.67	1631639.67	14274340.67	39°18'31.3733"N	81°01'51.7054"W	117.52	301.994	0.99	-0.93	-3.23	
4725.00	7.460	304.800	4716.68	100.06	68.47	-108.74	1631630.61	14274346.87	39°18'31.4346"N	81°01'51.8208"W	128.50	302.198	1.59	1.59	0.99	
4820.00	7.330	304.520	4810.89	109.90	75.43	-118.79	1631620.55	14274353.82	39°18'31.5033"N	81°01'51.9488"W	140.72	302.412	0.14	-0.14	-0.29	
4914.00	6.600	299.770	4904.20	118.78	81.51	-128.42	1631610.93	14274359.90	39°18'31.5633"N	81°01'52.0713"W	152.11	302.402	0.99	-0.78	-5.05	
5008.00	7.580	308.490	4997.46	128.06	88.05	-137.97	1631601.39	14274366.44	39°18'31.6280"N	81°01'52.1927"W	163.67	302.545	1.55	1.04	9.28	
5103.00	7.690	307.550	5091.64	138.64	95.82	-147.91	1631591.45	14274374.21	39°18'31.7047"N	81°01'52.3193"W	176.24	302.936	0.18	0.12	-0.99	
5197.00	6.700	303.960	5184.90	148.26	102.72	-157.45	1631581.92	14274381.11	39°18'31.7729"N	81°01'52.4406"W	187.99	303.120	1.16	-1.05	-3.82	
5291.00	5.880	299.980	5278.33	156.26	108.19	-166.16	1631573.20	14274386.57	39°18'31.8269"N	81°01'52.5515"W	198.28	303.067	0.99	-0.87	-4.23	
5386.00	5.140	294.520	5372.89	162.86	112.38	-174.25	1631565.12	14274390.77	39°18'31.8684"N	81°01'52.6544"W	207.35	302.820	0.95	-0.78	-5.75	
5480.00	5.510	307.370	5466.49	169.51	116.87	-181.67	1631557.70	14274395.25	39°18'31.9127"N	81°01'52.7488"W	216.01	302.754	1.33	0.39	13.67	
5575.00	7.300	320.140	5560.90	178.94	124.27	-189.16	1631550.21	14274402.65	39°18'31.9858"N	81°01'52.8442"W	226.33	303.303	2.40	1.88	13.44	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 4 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
5669.00	10.970	322.450	5653.69	193.00	135.95	-198.44	1631540.93	14274414.33	39°18'32.1012"N	81°01'52.9623"W	240.55	304.415	3.92	3.90	2.46	
5763.00	13.210	324.270	5745.60	211.76	151.76	-210.17	1631529.22	14274430.13	39°18'32.2575"N	81°01'53.1116"W	259.24	305.833	2.42	2.38	1.94	
5881.00	20.640	333.980	5858.43	245.36	181.45	-227.19	1631512.20	14274459.80	39°18'32.5508"N	81°01'53.3283"W	290.76	308.612	6.72	6.30	8.23	BH AT Curve <8-1/2"> (5763')(5881'-22676')
5976.00	30.670	338.480	5943.96	286.29	219.13	-243.47	1631495.93	14274497.47	39°18'32.9232"N	81°01'53.5355"W	327.56	311.988	10.75	10.56	4.74	
6056.00†	37.895	338.997	6010.02	331.29	261.11	-259.78	1631479.62	14274539.43	39°18'33.3380"N	81°01'53.7432"W	368.32	315.146	9.04	9.03	0.65	Sycamore: 6056' MD
6070.00	39.160	339.070	6020.97	340.00	269.25	-262.90	1631476.50	14274547.57	39°18'33.4185"N	81°01'53.7830"W	376.31	315.683	9.04	9.03	0.52	
6165.00	48.130	339.210	6089.65	405.47	330.46	-286.22	1631453.20	14274608.76	39°18'34.0234"N	81°01'54.0799"W	437.18	319.103	9.44	9.44	0.15	
6169.00†	48.475	339.181	6092.31	408.45	333.25	-287.28	1631452.13	14274611.55	39°18'34.0510"N	81°01'54.0934"W	439.98	319.237	8.65	8.64	-0.73	Middlesex: 6169' MD
6259.00	56.250	338.590	6147.23	479.62	399.68	-312.95	1631426.47	14274677.95	39°18'34.7074"N	81°01'54.4203"W	507.62	321.939	8.65	8.64	-0.66	
6348.00†	63.663	338.115	6191.75	556.52	471.23	-341.36	1631398.07	14274749.47	39°18'35.4145"N	81°01'54.7821"W	581.88	324.080	8.34	8.33	-0.53	Burkett: 6348' MD
6353.00	64.080	338.090	6193.96	561.00	475.40	-343.04	1631396.40	14274753.64	39°18'35.4557"N	81°01'54.8034"W	586.24	324.186	8.34	8.33	-0.50	
6367.00†	65.294	338.414	6199.94	573.64	487.15	-347.73	1631391.71	14274765.39	39°18'35.5719"N	81°01'54.8631"W	598.52	324.481	8.92	8.67	2.32	Marcellus POE: 6367' MD
6447.00	72.240	340.160	6228.90	648.13	556.86	-374.06	1631365.39	14274835.07	39°18'36.2608"N	81°01'55.1984"W	670.83	326.110	8.92	8.68	2.18	
6541.00	80.920	340.800	6250.69	739.47	642.96	-404.57	1631334.89	14274921.13	39°18'37.1116"N	81°01'55.5870"W	759.66	327.821	9.26	9.23	0.68	
6636.00	89.420	340.330	6258.69	834.04	732.15	-436.04	1631303.43	14275010.28	39°18'37.9930"N	81°01'55.9878"W	852.16	329.223	8.96	8.95	-0.49	
6730.00	89.350	340.470	6259.69	928.03	820.70	-467.57	1631271.91	14275098.80	39°18'38.8681"N	81°01'56.3893"W	944.55	330.329	0.17	-0.07	0.15	
6824.00	89.420	339.750	6260.70	1022.01	909.08	-499.55	1631239.95	14275187.15	39°18'39.7416"N	81°01'56.7966"W	1037.30	331.211	0.77	0.07	-0.77	
6916.00	89.140	339.800	6261.86	1113.98	995.40	-531.36	1631208.16	14275273.43	39°18'40.5946"N	81°01'57.2016"W	1128.35	331.906	0.31	-0.30	0.05	
7012.00	88.890	339.100	6263.51	1209.93	1085.28	-565.05	1631174.48	14275363.28	39°18'41.4828"N	81°01'57.6306"W	1223.57	332.496	0.77	-0.26	-0.73	
7107.00	90.370	339.840	6264.12	1304.88	1174.24	-598.36	1631141.18	14275452.20	39°18'42.3620"N	81°01'58.0549"W	1317.91	332.998	1.74	1.56	0.78	
7201.00	89.570	340.290	6264.17	1398.87	1262.61	-630.41	1631109.14	14275540.53	39°18'43.2352"N	81°01'58.4630"W	1411.24	333.467	0.98	-0.85	0.48	
7296.00	90.030	341.760	6264.50	1493.86	1352.44	-661.30	1631078.27	14275630.33	39°18'44.1230"N	81°01'58.8564"W	1505.46	333.943	1.62	0.48	1.55	
7391.00	89.570	340.340	6264.84	1588.86	1442.29	-692.15	1631047.43	14275720.14	39°18'45.0109"N	81°01'59.2493"W	1599.77	334.364	1.57	-0.48	-1.49	
7485.00	89.940	340.520	6265.24	1682.85	1530.86	-723.64	1631015.95	14275808.68	39°18'45.8862"N	81°01'59.6503"W	1693.28	334.700	0.44	0.39	0.19	
7579.00	91.050	341.660	6264.43	1776.85	1619.78	-754.10	1630985.51	14275897.56	39°18'46.7650"N	81°02'00.0383"W	1786.72	335.035	1.69	1.18	1.21	
7674.00	89.450	341.150	6264.01	1871.84	1709.82	-784.39	1630955.23	14275987.56	39°18'47.6547"N	81°02'00.4241"W	1881.16	335.356	1.77	-1.68	-0.54	
7768.00	90.090	341.530	6264.39	1965.84	1798.88	-814.46	1630925.16	14276076.58	39°18'48.5349"N	81°02'00.8072"W	1974.67	335.641	0.79	0.68	0.40	
7862.00	90.830	342.880	6263.63	2059.82	1888.37	-843.19	1630896.45	14276166.04	39°18'49.4193"N	81°02'01.1731"W	2068.07	335.938	1.64	0.79	1.44	
7957.00	90.000	340.840	6262.95	2154.80	1978.64	-872.77	1630866.89	14276256.28	39°18'50.3114"N	81°02'01.5498"W	2162.58	336.198	2.32	-0.87	-2.15	
8051.00	89.970	340.700	6262.97	2248.80	2067.40	-903.73	1630835.94	14276345.00	39°18'51.1885"N	81°02'01.9441"W	2256.29	336.388	0.15	-0.03	-0.15	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'

Page 5 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
8145.00	91.630	341.660	6261.66	2342.78	2156.36	-934.04	1630805.63	14276433.92	39°18'52.0677"N	81°02'2.3303"W	2349.96	336.580	2.04	1.77	1.02	
8240.00	90.250	341.290	6260.10	2437.76	2246.42	-964.22	1630775.46	14276523.95	39°18'52.9577"N	81°02'2.7147"W	2444.61	336.770	1.50	-1.45	-0.39	
8334.00	90.310	340.420	6259.64	2531.76	2335.22	-995.05	1630744.65	14276612.71	39°18'53.8353"N	81°02'3.1073"W	2538.38	336.921	0.93	0.06	-0.93	
8429.00	90.490	340.370	6258.98	2626.75	2424.71	-1026.93	1630712.79	14276702.17	39°18'54.7196"N	81°02'3.5133"W	2633.21	337.046	0.20	0.19	-0.05	
8523.00	90.430	341.460	6258.22	2720.75	2513.54	-1057.66	1630682.07	14276790.96	39°18'55.5975"N	81°02'3.9048"W	2727.00	337.179	1.16	-0.06	1.16	
8617.00	90.150	341.430	6257.75	2814.75	2602.65	-1087.57	1630652.17	14276880.04	39°18'56.4781"N	81°02'4.2858"W	2820.75	337.321	0.30	-0.30	-0.03	
8711.00	90.280	340.930	6257.39	2908.74	2691.63	-1117.90	1630621.85	14276968.98	39°18'57.3574"N	81°02'4.6720"W	2914.54	337.446	0.55	0.14	-0.53	
8806.00	90.280	340.990	6256.93	3003.74	2781.43	-1148.89	1630590.88	14277058.74	39°18'58.2448"N	81°02'5.0668"W	3009.37	337.557	0.06	0.00	0.06	
8900.00	90.370	341.540	6256.40	3097.74	2870.45	-1179.08	1630560.70	14277147.72	39°18'59.1246"N	81°02'5.4513"W	3103.17	337.669	0.59	0.10	0.59	
8994.00	90.150	341.400	6255.97	3191.74	2959.57	-1208.95	1630530.84	14277236.81	39°19'0.0053"N	81°02'5.8319"W	3196.97	337.781	0.28	-0.23	-0.15	
9089.00	90.280	341.140	6255.61	3286.74	3049.54	-1239.46	1630500.34	14277326.75	39°19'0.8944"N	81°02'6.2204"W	3291.80	337.881	0.31	0.14	-0.27	
9183.00	90.220	341.180	6255.20	3380.73	3138.50	-1269.81	1630470.00	14277415.67	39°19'1.7736"N	81°02'6.6071"W	3385.65	337.972	0.08	-0.06	0.04	
9277.00	89.480	340.840	6255.45	3474.73	3227.39	-1300.40	1630439.42	14277504.52	39°19'2.6520"N	81°02'6.9967"W	3479.52	338.054	0.87	-0.79	-0.36	
9372.00	89.880	341.950	6255.98	3569.73	3317.42	-1330.71	1630409.13	14277594.52	39°19'3.5417"N	81°02'7.3828"W	3574.36	338.143	1.24	0.42	1.17	
9466.00	90.060	341.870	6256.03	3663.72	3406.77	-1359.89	1630379.95	14277683.83	39°19'4.4247"N	81°02'7.7546"W	3668.16	338.239	0.21	0.19	-0.09	
9560.00	90.220	341.830	6255.80	3757.71	3496.10	-1389.18	1630350.68	14277773.12	39°19'5.3075"N	81°02'8.1276"W	3761.98	338.330	0.18	0.17	-0.04	
9655.00	89.940	341.310	6255.67	3852.70	3586.22	-1419.21	1630320.66	14277863.21	39°19'6.1981"N	81°02'8.5102"W	3856.83	338.409	0.62	-0.29	-0.55	
9749.00	90.030	341.400	6255.69	3946.70	3675.29	-1449.26	1630290.62	14277952.24	39°19'7.0783"N	81°02'8.8930"W	3950.71	338.479	0.14	0.10	0.10	
9844.00	91.480	341.850	6254.44	4041.69	3765.43	-1479.21	1630260.69	14278042.35	39°19'7.9692"N	81°02'9.2745"W	4045.56	338.553	1.60	1.53	0.47	
9938.00	89.910	341.360	6253.30	4135.67	3854.62	-1508.87	1630231.04	14278131.50	39°19'8.8505"N	81°02'9.6523"W	4139.42	338.622	1.75	-1.67	-0.52	
10031.00	90.120	341.570	6253.28	4228.67	3942.80	-1538.43	1630201.49	14278219.64	39°19'9.7219"N	81°02'10.0289"W	4232.31	338.685	0.32	0.23	0.23	
10126.00	90.120	341.140	6253.08	4323.67	4032.81	-1568.80	1630171.13	14278309.62	39°19'10.6115"N	81°02'10.4158"W	4327.21	338.744	0.45	0.00	-0.45	
10220.00	90.250	340.940	6252.77	4417.67	4121.71	-1599.34	1630140.60	14278398.48	39°19'11.4900"N	81°02'10.8049"W	4421.13	338.792	0.25	0.14	-0.21	
10314.00	90.370	341.190	6252.26	4511.67	4210.62	-1629.84	1630110.11	14278487.36	39°19'12.3687"N	81°02'11.1935"W	4515.06	338.840	0.30	0.13	0.27	
10408.00	90.030	341.160	6251.94	4605.67	4299.59	-1660.18	1630079.79	14278576.30	39°19'13.2479"N	81°02'11.5799"W	4608.98	338.887	0.36	-0.36	-0.03	
10503.00	90.650	341.600	6251.37	4700.66	4389.62	-1690.51	1630049.47	14278666.29	39°19'14.1376"N	81°02'11.9663"W	4703.89	338.938	0.80	0.65	0.46	
10597.00	90.580	342.160	6250.36	4794.65	4478.95	-1719.74	1630020.25	14278755.58	39°19'15.0204"N	81°02'12.3387"W	4797.76	338.995	0.60	-0.07	0.60	
10692.00	90.220	341.550	6249.70	4889.63	4569.23	-1749.32	1629990.68	14278845.82	39°19'15.9125"N	81°02'12.7156"W	4892.64	339.051	0.75	-0.38	-0.64	
10786.00	90.650	340.680	6248.99	4983.63	4658.16	-1779.75	1629960.27	14278934.72	39°19'16.7914"N	81°02'13.1032"W	4986.58	339.090	1.03	0.46	-0.93	
10880.00	90.890	341.550	6247.72	5077.62	4747.09	-1810.17	1629929.86	14279023.61	39°19'17.6702"N	81°02'13.4907"W	5080.51	339.127	0.96	0.26	0.93	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 6 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
10974.00	90.180	341.450	6246.85	5171.61	4836.23	-1839.99	1629900.04	14279112.72	39°19'18.5511"N	81°02'13.8707"W	5174.43	339.170	0.76	-0.76	-0.11	
11069.00	90.280	342.020	6246.46	5266.61	4926.44	-1869.77	1629870.28	14279202.89	39°19'19.4426"N	81°02'14.2500"W	5269.33	339.216	0.61	0.11	0.60	
11164.00	90.680	341.710	6245.67	5361.59	5016.72	-1899.34	1629840.73	14279293.13	39°19'20.3348"N	81°02'14.6267"W	5364.23	339.263	0.53	0.42	-0.33	
11258.00	90.280	341.690	6244.88	5455.58	5105.96	-1928.85	1629811.22	14279382.34	39°19'21.2167"N	81°02'15.0028"W	5458.14	339.305	0.43	-0.43	-0.02	
11353.00	90.060	341.080	6244.60	5550.58	5195.99	-1959.18	1629780.91	14279472.33	39°19'22.1064"N	81°02'15.3891"W	5553.08	339.341	0.68	-0.23	-0.64	
11447.00	90.280	341.430	6244.32	5644.58	5285.01	-1989.38	1629750.72	14279561.31	39°19'22.9860"N	81°02'15.7739"W	5647.03	339.373	0.44	0.23	0.37	
11541.00	90.460	341.580	6243.71	5738.58	5374.15	-2019.20	1629720.91	14279650.42	39°19'23.8670"N	81°02'16.1538"W	5740.96	339.408	0.25	0.19	0.16	
11635.00	89.910	341.330	6243.41	5832.57	5463.27	-2049.10	1629691.03	14279739.50	39°19'24.7477"N	81°02'16.5347"W	5834.90	339.441	0.64	-0.59	-0.27	
11729.00	90.150	341.740	6243.36	5926.57	5552.43	-2078.87	1629661.27	14279828.63	39°19'25.6288"N	81°02'16.9141"W	5928.84	339.474	0.51	0.26	0.44	
11824.00	90.220	340.890	6243.05	6021.57	5642.42	-2109.30	1629630.84	14279918.58	39°19'26.5181"N	81°02'17.3018"W	6023.79	339.503	0.90	0.07	-0.89	
11918.00	90.030	341.240	6242.85	6115.57	5731.33	-2139.81	1629600.35	14280007.46	39°19'27.3968"N	81°02'17.6904"W	6117.76	339.527	0.42	-0.20	0.37	
12012.00	90.220	341.200	6242.64	6209.57	5820.33	-2170.07	1629570.10	14280096.42	39°19'28.2762"N	81°02'18.0760"W	6211.72	339.552	0.21	0.20	-0.04	
12106.00	90.120	341.680	6242.36	6303.56	5909.44	-2199.99	1629540.20	14280185.49	39°19'29.1568"N	81°02'18.4572"W	6305.66	339.581	0.52	-0.11	0.51	
12200.00	89.910	341.750	6242.34	6397.56	5998.69	-2229.48	1629510.72	14280274.71	39°19'30.0389"N	81°02'18.8329"W	6399.60	339.612	0.24	-0.22	0.07	
12295.00	89.910	341.440	6242.49	6492.55	6088.83	-2259.47	1629480.73	14280364.82	39°19'30.9297"N	81°02'19.2151"W	6494.54	339.641	0.33	0.00	-0.33	
12388.00	89.780	341.040	6242.74	6585.55	6176.89	-2289.38	1629450.84	14280452.84	39°19'31.7999"N	81°02'19.5962"W	6587.51	339.663	0.45	-0.14	-0.43	
12483.00	90.030	341.400	6242.90	6680.55	6266.83	-2319.97	1629420.27	14280542.74	39°19'32.6887"N	81°02'19.9859"W	6682.47	339.686	0.46	0.26	0.38	
12577.00	90.000	341.120	6242.87	6774.55	6355.85	-2350.17	1629390.08	14280631.73	39°19'33.5684"N	81°02'20.3706"W	6776.44	339.707	0.30	-0.03	-0.30	
12671.00	90.030	341.360	6242.85	6868.55	6444.86	-2380.40	1629359.86	14280720.70	39°19'34.4480"N	81°02'20.7558"W	6870.40	339.728	0.26	0.03	0.26	
12766.00	89.880	341.540	6242.92	6963.55	6534.92	-2410.62	1629329.65	14280810.72	39°19'35.3380"N	81°02'21.1409"W	6965.36	339.752	0.25	-0.16	0.19	
12860.00	89.940	342.130	6243.07	7057.54	6624.23	-2439.92	1629300.36	14280900.00	39°19'36.2206"N	81°02'21.5143"W	7059.30	339.780	0.63	0.06	0.63	
12955.00	90.060	341.060	6243.07	7152.53	6714.37	-2469.92	1629270.37	14280990.11	39°19'37.1114"N	81°02'21.8965"W	7154.25	339.804	1.13	0.13	-1.13	
13049.00	89.750	341.110	6243.23	7246.53	6803.30	-2500.39	1629239.91	14281078.99	39°19'37.9902"N	81°02'22.2847"W	7248.23	339.820	0.33	-0.33	0.05	
13144.00	90.180	341.910	6243.29	7341.53	6893.39	-2530.52	1629209.80	14281169.05	39°19'38.8805"N	81°02'22.6886"W	7343.19	339.842	0.96	0.45	0.84	
13238.00	90.340	340.920	6242.86	7435.52	6982.49	-2560.48	1629179.85	14281258.11	39°19'39.7610"N	81°02'23.0503"W	7437.15	339.862	1.07	0.17	-1.05	
13333.00	89.750	340.860	6242.78	7530.52	7072.25	-2591.58	1629148.76	14281347.84	39°19'40.6480"N	81°02'23.4466"W	7532.13	339.875	0.62	-0.62	-0.06	
13427.00	90.000	340.510	6242.99	7624.52	7160.96	-2622.67	1629117.69	14281436.51	39°19'41.5247"N	81°02'23.8428"W	7626.12	339.885	0.46	0.27	-0.37	
13522.00	89.720	340.200	6243.22	7719.51	7250.43	-2654.61	1629085.76	14281525.95	39°19'42.4088"N	81°02'24.2497"W	7721.12	339.891	0.44	-0.29	-0.33	
13616.00	89.540	339.740	6243.83	7813.49	7338.74	-2686.80	1629053.58	14281614.22	39°19'43.2815"N	81°02'24.6599"W	7815.12	339.892	0.53	-0.19	-0.49	
13710.00	89.820	340.160	6244.35	7907.47	7427.05	-2719.03	1629021.36	14281702.49	39°19'44.1541"N	81°02'25.0705"W	7909.12	339.892	0.54	0.30	0.45	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 7 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
13805.00	90.180	339.700	6244.35	8002.46	7516.28	-2751.63	1628988.78	14281791.69	39°19'45.0359"N	81°02'25.4859"W	8004.12	339.893	0.61	0.38	-0.48	
13900.00	89.660	340.790	6244.49	8097.44	7605.68	-2783.74	1628956.68	14281881.06	39°19'45.9194"N	81°02'25.8950"W	8099.11	339.897	1.27	-0.55	1.15	
13994.00	90.400	340.090	6244.44	8191.44	7694.26	-2815.21	1628925.22	14281969.60	39°19'46.7947"N	81°02'26.2960"W	8193.11	339.903	1.08	0.79	-0.74	
14088.00	90.090	340.330	6244.03	8285.43	7782.70	-2847.03	1628893.41	14282058.01	39°19'47.6688"N	81°02'26.7015"W	8287.10	339.907	0.42	-0.33	0.26	
14183.00	89.450	340.350	6244.42	8380.42	7872.17	-2879.00	1628861.46	14282147.43	39°19'48.5528"N	81°02'27.1087"W	8382.10	339.912	0.67	-0.67	0.02	
14277.00	90.340	340.480	6244.59	8474.41	7960.73	-2910.50	1628829.97	14282235.96	39°19'49.4280"N	81°02'27.5102"W	8476.10	339.917	0.96	0.95	0.14	
14371.00	89.630	340.400	6244.61	8568.40	8049.30	-2941.98	1628798.51	14282324.50	39°19'50.3033"N	81°02'27.9112"W	8570.09	339.923	0.76	-0.76	-0.09	
14465.00	89.720	340.230	6245.15	8662.39	8137.81	-2973.64	1628766.86	14282412.97	39°19'51.1779"N	81°02'28.3147"W	8664.09	339.927	0.20	0.10	-0.18	
14560.00	90.770	339.920	6244.74	8757.38	8227.12	-3006.01	1628734.50	14282502.24	39°19'52.0605"N	81°02'28.7272"W	8759.08	339.929	1.15	1.11	-0.33	
14654.00	90.220	341.220	6243.93	8851.37	8315.76	-3037.28	1628703.24	14282590.85	39°19'52.9364"N	81°02'29.1256"W	8853.07	339.936	1.50	-0.59	1.38	
14749.00	90.120	341.020	6243.65	8946.37	8405.65	-3068.02	1628672.51	14282680.70	39°19'53.8247"N	81°02'29.5174"W	8948.05	339.948	0.24	-0.11	-0.21	
14843.00	90.030	340.900	6243.52	9040.37	8494.50	-3098.69	1628641.86	14282769.52	39°19'54.7028"N	81°02'29.9081"W	9042.04	339.959	0.16	-0.10	-0.13	
15031.00	90.370	340.330	6242.87	9228.36	8671.84	-3161.09	1628579.49	14282946.79	39°19'56.4553"N	81°02'30.7033"W	9230.02	339.972	0.35	0.18	-0.30	
15126.00	90.030	341.010	6242.53	9323.36	8761.49	-3192.53	1628548.05	14283036.40	39°19'57.3412"N	81°02'31.1040"W	9325.02	339.979	0.80	-0.36	0.72	
15220.00	90.490	340.430	6242.11	9417.35	8850.21	-3223.57	1628517.03	14283125.09	39°19'58.2180"N	81°02'31.4995"W	9419.01	339.987	0.79	0.49	-0.62	
15314.00	90.060	340.660	6241.66	9511.35	8938.85	-3254.88	1628485.73	14283213.68	39°19'59.0938"N	81°02'31.8985"W	9513.00	339.992	0.52	-0.46	0.24	
15409.00	90.340	339.980	6241.33	9606.34	9028.30	-3286.87	1628453.75	14283303.10	39°19'59.9778"N	81°02'32.3061"W	9608.00	339.995	0.77	0.29	-0.72	
15503.00	90.520	340.220	6240.62	9700.32	9116.68	-3318.86	1628421.77	14283391.45	39°20'0.8512"N	81°02'32.7138"W	9701.99	339.996	0.32	0.19	0.26	
15597.00	90.650	339.470	6239.66	9794.30	9204.92	-3351.25	1628389.40	14283479.65	39°20'1.7231"N	81°02'33.1265"W	9795.99	339.995	0.81	0.14	-0.80	
15692.00	91.570	340.380	6237.82	9889.26	9294.13	-3383.85	1628356.81	14283568.82	39°20'2.6047"N	81°02'33.5420"W	9890.97	339.994	1.36	0.97	0.96	
15786.00	90.400	339.840	6236.20	9983.23	9382.51	-3415.83	1628324.85	14283657.16	39°20'3.4780"N	81°02'33.9494"W	9984.95	339.995	1.37	-1.24	-0.57	
15880.00	90.650	340.000	6235.34	10077.21	9470.79	-3448.10	1628292.59	14283745.41	39°20'4.3504"N	81°02'34.3607"W	10078.95	339.995	0.32	0.27	0.17	
15974.00	90.030	340.030	6234.78	10171.19	9559.13	-3480.22	1628260.47	14283833.71	39°20'5.2234"N	81°02'34.7701"W	10172.95	339.995	0.66	-0.66	0.03	
16069.00	90.120	340.970	6234.66	10266.18	9648.68	-3511.94	1628228.78	14283923.23	39°20'6.1083"N	81°02'35.1742"W	10267.94	339.999	0.99	0.09	0.99	
16163.00	90.180	340.430	6234.41	10360.18	9737.39	-3543.00	1628197.72	14284011.91	39°20'6.9850"N	81°02'35.5701"W	10361.93	340.006	0.58	0.06	-0.57	
16257.00	90.520	339.640	6233.84	10454.16	9825.74	-3575.10	1628165.64	14284100.22	39°20'7.8581"N	81°02'35.9791"W	10455.93	340.006	0.91	0.36	-0.84	
16352.00	90.460	340.450	6233.03	10549.14	9915.03	-3607.52	1628133.23	14284189.48	39°20'8.7404"N	81°02'36.3923"W	10550.93	340.006	0.85	-0.06	0.85	
16446.00	90.650	341.120	6232.12	10643.14	10003.79	-3638.45	1628102.31	14284278.20	39°20'9.6176"N	81°02'36.7865"W	10644.91	340.013	0.74	0.20	0.71	
16541.00	90.520	341.180	6231.15	10738.13	10093.69	-3669.15	1628071.63	14284368.06	39°20'10.5060"N	81°02'37.1777"W	10739.89	340.023	0.15	-0.14	0.06	
16635.00	90.310	341.400	6230.47	10832.13	10182.72	-3699.30	1628041.49	14284457.06	39°20'11.3857"N	81°02'37.5620"W	10833.86	340.034	0.32	-0.22	0.23	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'

Page 8 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
16729.00	90.310	340.370	6229.96	10926.13	10271.54	-3730.08	1628010.72	14284545.84	39°20'12.2634"N	81°02'37.9543"W	10927.85	340.042	1.10	0.00	-1.10	
16823.00	90.430	340.490	6229.35	11020.12	10360.10	-3761.56	1627979.25	14284634.37	39°20'13.1386"N	81°02'38.3556"W	11021.85	340.045	0.18	0.13	0.13	
16917.00	90.280	341.160	6228.77	11114.11	10448.89	-3792.44	1627948.39	14284723.12	39°20'14.0160"N	81°02'38.7491"W	11115.84	340.052	0.73	-0.16	0.71	
17011.00	90.090	340.420	6228.46	11208.11	10537.65	-3823.37	1627917.47	14284811.85	39°20'14.8932"N	81°02'39.1432"W	11209.83	340.058	0.81	-0.20	-0.79	
17106.00	91.320	340.790	6227.30	11303.10	10627.25	-3854.91	1627885.94	14284901.41	39°20'15.7786"N	81°02'39.5453"W	11304.81	340.062	1.35	1.29	0.39	
17200.00	90.280	341.060	6225.98	11397.09	10716.08	-3885.63	1627855.23	14284990.20	39°20'16.6564"N	81°02'39.9368"W	11398.79	340.069	1.14	-1.11	0.29	
17295.00	90.620	341.070	6225.24	11492.09	10805.94	-3916.45	1627824.42	14285080.02	39°20'17.5443"N	81°02'40.3297"W	11493.78	340.078	0.36	0.36	0.01	
17389.00	90.620	340.390	6224.22	11586.08	10894.66	-3947.47	1627793.41	14285168.72	39°20'18.4211"N	81°02'40.7250"W	11587.76	340.083	0.72	0.00	-0.72	
17483.00	90.180	339.680	6223.56	11680.06	10983.01	-3979.57	1627761.33	14285257.03	39°20'19.2942"N	81°02'41.1341"W	11681.76	340.083	0.89	-0.47	-0.76	
17578.00	90.830	339.990	6222.73	11775.03	11072.19	-4012.32	1627728.60	14285346.17	39°20'20.1754"N	81°02'41.5514"W	11776.76	340.081	0.75	0.68	0.33	
17672.00	90.680	340.170	6221.49	11869.01	11160.55	-4044.34	1627696.59	14285434.50	39°20'21.0486"N	81°02'41.9595"W	11870.75	340.081	0.25	-0.16	0.19	
17766.00	90.550	340.480	6220.48	11963.00	11249.06	-4075.99	1627664.95	14285522.97	39°20'21.9232"N	81°02'42.3629"W	11964.74	340.083	0.36	-0.14	0.33	
17861.00	90.120	341.270	6219.92	12058.00	11338.81	-4107.11	1627633.84	14285612.69	39°20'22.8102"N	81°02'42.7596"W	12059.73	340.089	0.95	-0.45	0.83	
17955.00	90.340	341.150	6219.55	12152.00	11427.80	-4137.39	1627603.58	14285701.64	39°20'23.6896"N	81°02'43.1455"W	12153.71	340.097	0.27	0.23	-0.13	
18049.00	90.280	341.120	6219.04	12245.99	11516.75	-4167.78	1627573.19	14285790.55	39°20'24.5686"N	81°02'43.5329"W	12247.69	340.105	0.07	-0.06	-0.03	
18144.00	90.120	341.330	6218.71	12340.99	11606.70	-4198.36	1627542.63	14285880.46	39°20'25.4574"N	81°02'43.9226"W	12342.68	340.114	0.28	-0.17	0.22	
18238.00	90.090	341.630	6218.53	12434.99	11695.83	-4228.21	1627512.79	14285969.56	39°20'26.3382"N	81°02'44.3032"W	12436.65	340.124	0.32	-0.03	0.32	
18332.00	90.030	341.430	6218.44	12528.99	11784.99	-4257.99	1627483.02	14286058.68	39°20'27.2192"N	81°02'44.6828"W	12530.62	340.135	0.22	-0.06	-0.21	
18427.00	90.680	341.280	6217.85	12623.98	11875.00	-4288.37	1627452.66	14286148.66	39°20'28.1087"N	81°02'45.0700"W	12625.60	340.144	0.70	0.68	-0.16	
18521.00	90.280	341.530	6217.06	12717.98	11964.09	-4318.34	1627422.70	14286237.71	39°20'28.9891"N	81°02'45.4521"W	12719.57	340.153	0.50	-0.43	0.27	
18615.00	90.180	341.290	6216.68	12811.98	12053.18	-4348.30	1627392.74	14286326.77	39°20'29.8695"N	81°02'45.8340"W	12813.55	340.163	0.28	-0.11	-0.26	
18710.00	90.340	341.910	6216.25	12906.97	12143.33	-4378.29	1627362.77	14286416.87	39°20'30.7603"N	81°02'46.2163"W	12908.52	340.173	0.67	0.17	0.65	
18804.00	90.400	341.940	6215.64	13000.96	12232.68	-4407.46	1627333.62	14286506.20	39°20'31.6434"N	81°02'46.5881"W	13002.47	340.186	0.07	0.06	0.03	
18898.00	90.490	341.360	6214.91	13094.95	12321.90	-4437.05	1627304.04	14286595.38	39°20'32.5250"N	81°02'46.9653"W	13096.44	340.196	0.62	0.10	-0.62	
18992.00	90.430	341.360	6214.16	13188.94	12410.97	-4467.09	1627274.00	14286684.41	39°20'33.4051"N	81°02'47.3483"W	13190.41	340.205	0.06	-0.06	0.00	
19087.00	90.310	341.030	6213.55	13283.94	12500.90	-4497.71	1627243.39	14286774.30	39°20'34.2938"N	81°02'47.7386"W	13285.40	340.212	0.37	-0.13	-0.35	
19181.00	90.150	341.720	6213.17	13377.94	12589.97	-4527.73	1627213.39	14286863.34	39°20'35.1740"N	81°02'48.1213"W	13379.38	340.220	0.75	-0.17	0.73	
19275.00	90.030	341.450	6213.02	13471.94	12679.16	-4557.43	1627183.70	14286952.49	39°20'36.0554"N	81°02'48.4999"W	13473.35	340.229	0.31	-0.13	-0.29	
19369.00	90.340	340.840	6212.72	13565.93	12768.11	-4587.81	1627153.34	14287041.41	39°20'36.9344"N	81°02'48.8871"W	13567.34	340.236	0.73	0.33	-0.65	
19464.00	90.120	341.150	6212.34	13660.93	12857.93	-4618.74	1627122.41	14287131.20	39°20'37.8220"N	81°02'49.2815"W	13662.33	340.241	0.40	-0.23	0.33	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 9 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWP
Slot	Slot C		

WELLPATH DATA (245 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
19558.00	90.090	340.850	6212.16	13754.93	12946.81	-4649.35	1627091.82	14287220.04	39°20'38.7003"N	81°02'49.6716"W	13756.32	340.246	0.32	-0.03	-0.32	
19652.00	91.050	341.890	6211.23	13848.92	13035.88	-4679.37	1627061.81	14287309.07	39°20'39.5804"N	81°02'50.0544"W	13850.30	340.254	1.51	1.02	1.11	
19747.00	90.280	341.300	6210.13	13943.91	13126.01	-4709.36	1627031.83	14287399.17	39°20'40.4711"N	81°02'50.4367"W	13945.26	340.263	1.02	-0.81	-0.62	
19841.00	90.740	340.920	6209.29	14037.91	13214.95	-4739.80	1627001.41	14287488.06	39°20'41.3500"N	81°02'50.8247"W	14039.25	340.269	0.63	0.49	-0.40	
19936.00	91.260	341.470	6207.63	14132.89	13304.86	-4770.41	1626970.80	14287577.94	39°20'42.2385"N	81°02'51.2150"W	14134.22	340.275	0.80	0.55	0.58	
20030.00	90.830	341.320	6205.92	14226.88	13393.93	-4800.40	1626940.83	14287666.98	39°20'43.1187"N	81°02'51.5973"W	14228.19	340.282	0.48	-0.46	-0.16	
20124.00	91.380	341.360	6204.10	14320.86	13482.98	-4830.47	1626910.77	14287755.99	39°20'43.9986"N	81°02'51.9806"W	14322.15	340.289	0.59	0.59	0.04	
20219.00	91.080	341.830	6202.06	14415.83	13573.09	-4860.46	1626880.80	14287846.07	39°20'44.8891"N	81°02'52.3629"W	14417.11	340.298	0.59	-0.32	0.49	
20313.00	90.430	341.800	6200.83	14509.81	13662.39	-4889.79	1626851.48	14287935.33	39°20'45.7716"N	81°02'52.7369"W	14511.06	340.308	0.69	-0.69	-0.03	
20407.00	90.740	340.940	6199.87	14603.81	13751.46	-4919.82	1626821.46	14288024.36	39°20'46.6517"N	81°02'53.1197"W	14605.04	340.314	0.97	0.33	-0.91	
20502.00	90.890	342.130	6198.52	14698.79	13841.56	-4949.90	1626791.39	14288114.43	39°20'47.5421"N	81°02'53.5033"W	14700.01	340.322	1.26	0.16	1.25	
20596.00	90.550	341.440	6197.33	14792.78	13930.84	-4979.28	1626762.02	14288203.67	39°20'48.4243"N	81°02'53.8778"W	14793.97	340.332	0.82	-0.36	-0.73	
20690.00	90.460	341.400	6196.51	14886.77	14019.94	-5009.23	1626732.08	14288292.73	39°20'49.3048"N	81°02'54.2597"W	14887.95	340.339	0.10	-0.10	-0.04	
20785.00	90.580	341.550	6195.64	14981.76	14110.01	-5039.41	1626701.91	14288382.77	39°20'50.1949"N	81°02'54.6445"W	14982.93	340.346	0.20	0.13	0.16	
20880.00	90.740	340.900	6194.55	15076.76	14199.95	-5069.99	1626671.35	14288472.67	39°20'51.0836"N	81°02'55.0343"W	15077.91	340.351	0.70	0.17	-0.68	
20974.00	90.890	341.010	6193.21	15170.75	14288.80	-5100.66	1626640.69	14288561.48	39°20'51.9616"N	81°02'55.4253"W	15171.90	340.355	0.20	0.16	0.12	
21069.00	90.520	342.130	6192.04	15265.73	14378.92	-5130.69	1626610.67	14288651.57	39°20'52.8521"N	81°02'55.8081"W	15266.87	340.363	1.24	-0.39	1.18	
21163.00	90.580	341.280	6191.14	15359.72	14468.16	-5160.19	1626581.18	14288740.77	39°20'53.7340"N	81°02'56.1843"W	15360.83	340.371	0.91	0.06	-0.90	
21257.00	91.140	341.650	6189.73	15453.71	14557.27	-5190.07	1626551.31	14288829.85	39°20'54.6146"N	81°02'56.5653"W	15454.81	340.377	0.71	0.60	0.39	
21352.00	90.280	341.460	6188.55	15548.70	14647.38	-5220.13	1626521.27	14288919.93	39°20'55.5051"N	81°02'56.9485"W	15549.78	340.385	0.93	-0.91	-0.20	
21446.00	90.710	341.500	6187.74	15642.69	14736.51	-5249.98	1626491.43	14289009.02	39°20'56.3858"N	81°02'57.3291"W	15643.76	340.391	0.46	0.46	0.04	
21540.00	90.250	341.260	6186.95	15736.69	14825.59	-5280.00	1626461.43	14289098.06	39°20'57.2661"N	81°02'57.7118"W	15737.74	340.397	0.55	-0.49	-0.26	
21634.00	90.620	341.430	6186.24	15830.68	14914.65	-5310.06	1626431.37	14289187.08	39°20'58.1461"N	81°02'58.0951"W	15831.72	340.403	0.43	0.39	0.18	
21729.00	90.980	341.240	6184.91	15925.67	15004.64	-5340.46	1626400.98	14289277.04	39°20'59.0354"N	81°02'58.4827"W	15926.70	340.408	0.43	0.38	-0.20	
21823.00	91.140	341.370	6183.17	16019.65	15093.67	-5370.59	1626370.87	14289366.03	39°20'59.9152"N	81°02'58.8668"W	16020.67	340.414	0.22	0.17	0.14	
21917.00	90.280	341.210	6182.01	16113.65	15182.69	-5400.74	1626340.73	14289455.02	39°21'0.7949"N	81°02'59.2513"W	16114.66	340.419	0.93	-0.91	-0.17	
22011.00	90.180	341.040	6181.63	16207.64	15271.64	-5431.15	1626310.34	14289543.93	39°21'1.6738"N	81°02'59.6390"W	16208.65	340.423	0.21	-0.11	-0.18	
22106.00	90.950	341.300	6180.70	16302.64	15361.55	-5461.81	1626279.69	14289633.80	39°21'2.5623"N	81°03'0.0299"W	16303.63	340.427	0.86	0.81	0.27	
22200.00	90.550	341.830	6179.46	16396.63	15450.72	-5491.53	1626249.98	14289722.94	39°21'3.4434"N	81°03'0.4089"W	16397.61	340.434	0.71	-0.43	0.56	
22294.00	91.050	340.440	6178.15	16490.62	15539.65	-5521.92	1626219.60	14289811.84	39°21'4.3223"N	81°03'0.7964"W	16491.59	340.438	1.57	0.53	-1.48	



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 10 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (245 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
22389.00	90.400	341.220	6176.95	16585.61	15629.38	-5553.11	1626188.42	14289901.53	39°21'5.2089"N	81°03'1.1941"W	16586.58	340.440	1.07	-0.68	0.82	
22484.00	90.490	341.020	6176.21	16680.60	15719.26	-5583.85	1626157.69	14289991.38	39°21'6.0972"N	81°03'1.5860"W	16681.57	340.444	0.23	0.09	-0.21	
22578.00	90.650	341.240	6175.28	16774.60	15808.21	-5614.25	1626127.30	14290080.28	39°21'6.9761"N	81°03'1.9736"W	16775.56	340.448	0.29	0.17	0.23	
22676.00	90.580	341.160	6174.23	16872.59	15900.97	-5645.83	1626095.74	14290173.01	39°21'7.8928"N	81°03'2.3763"W	16873.54	340.452	0.11	-0.07	-0.08	
22701.00‡	90.580	341.160	6173.97	16897.59	15924.63	-5653.91	1626087.67	14290196.66	39°21'8.1266"N	81°03'2.4793"W	16898.54	340.453	0.00	0.00	0.00	Projected MD at TD: 22701'

HOLE & CASING SECTIONS - Ref Wellbore: Conklin Unit 1H AWB Ref Wellpath: Conklin Unit 1H AWP Proj: 22701'

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	130.00	100.00	30.00	130.00	0.00	0.00	0.12	0.15
17.5in Open Hole	130.00	984.00	854.00	130.00	983.99	0.12	0.15	0.48	-0.75
13.375in Casing Surface	30.00	964.00	934.00	30.00	963.99	0.00	0.00	0.55	-0.81
12.375in Open Hole	984.00	3084.00	2100.00	983.99	3083.80	0.48	-0.75	-20.14	17.68
9.625in Casing Intermediate	30.00	3054.00	3024.00	30.00	3053.80	0.00	0.00	-19.96	17.44
8.75in Open Hole	3084.00	5857.00	2773.00	3083.80	5835.86	-20.14	17.68	174.16	-223.53
8.5in Open Hole	5857.00	22701.00	16844.00	5835.86	6173.97	174.16	-223.53	15924.63	-5653.91
5.5in Casing Production	30.00	22681.00	22651.00	30.00	6174.17	0.00	0.00	15905.71	-5647.45



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'
Page 11 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Conklin Unit 1H POE Rev-2	6218.00	57.77	-211.20	1631528.18	14274336.18	39°18'31.3285"N	81°01'53.1243"W	point
Conklin Unit 1H POE Rev-3	6218.00	530.71	-373.48	1631365.97	14274808.92	39°18'36.0023"N	81°01'55.1909"W	point
Conklin Unit 1H BHL Rev-3	6264.00	15937.69	-5659.96	1626081.61	14290209.71	39°21'8.2555"N	81°03'2.5565"W	point
Conklin Unit 1H LP Rev-3	6264.00	769.57	-455.44	1631284.04	14275047.69	39°18'38.3628"N	81°01'56.2347"W	point
Conklin Unit 1H 50' L/R Hard Line Rev-2	6500.00	8234.20	-3016.72	1628723.79	14282509.32	39°19'52.1304"N	81°02'28.8635"W	rectangle
2D Rectangle 16288.7 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Conklin Unit 1H AWB Ref Wellpath: Conklin Unit 1H AWP Proj: 22701'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	879.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-879')	Conklin Unit 1H AWB	4/26/2024
879.00	3011.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (879')(1038'-3011')	Conklin Unit 1H AWB	4/26/2024
3011.00	5763.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3011')(3118'-5763')	Conklin Unit 1H AWB	5/8/2024
5763.00	22701.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5763')(5881'-22676')	Conklin Unit 1H AWB	5/8/2024



Actual Wellpath Report

Conklin Unit 1H AWP Proj: 22701'

Page 12 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Conklin Unit 1H
Field	Ritchie	API	47-085-10510-0000
Facility	Pinewood Pad	Wellbore	Conklin Unit 1H AWB
Slot	Slot C		

COMMENTS	
Wellpath general comments API: 47-085-10510-0000 BH Job #: 112220035 Rig: H&P 519 Duration: 5/13/2024-5/20/2024 Gyrodatta MS Gyro <17-1/2"> (100'-879') APS EM <12-3/8"> (879')(1038'-3011') APS EM <8-3/4"> (3011')(3118'-5763') BH AT Curve <8-1/2"> (5763')(5881'-22676') Sycamore: 6056' MD Middlesex: 6169' MD Burkett: 6348' MD Marcellus POE: 6367' MD Projected MD at TD: 22701'	