



ANTERO RESOURCES CORPORATION

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

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

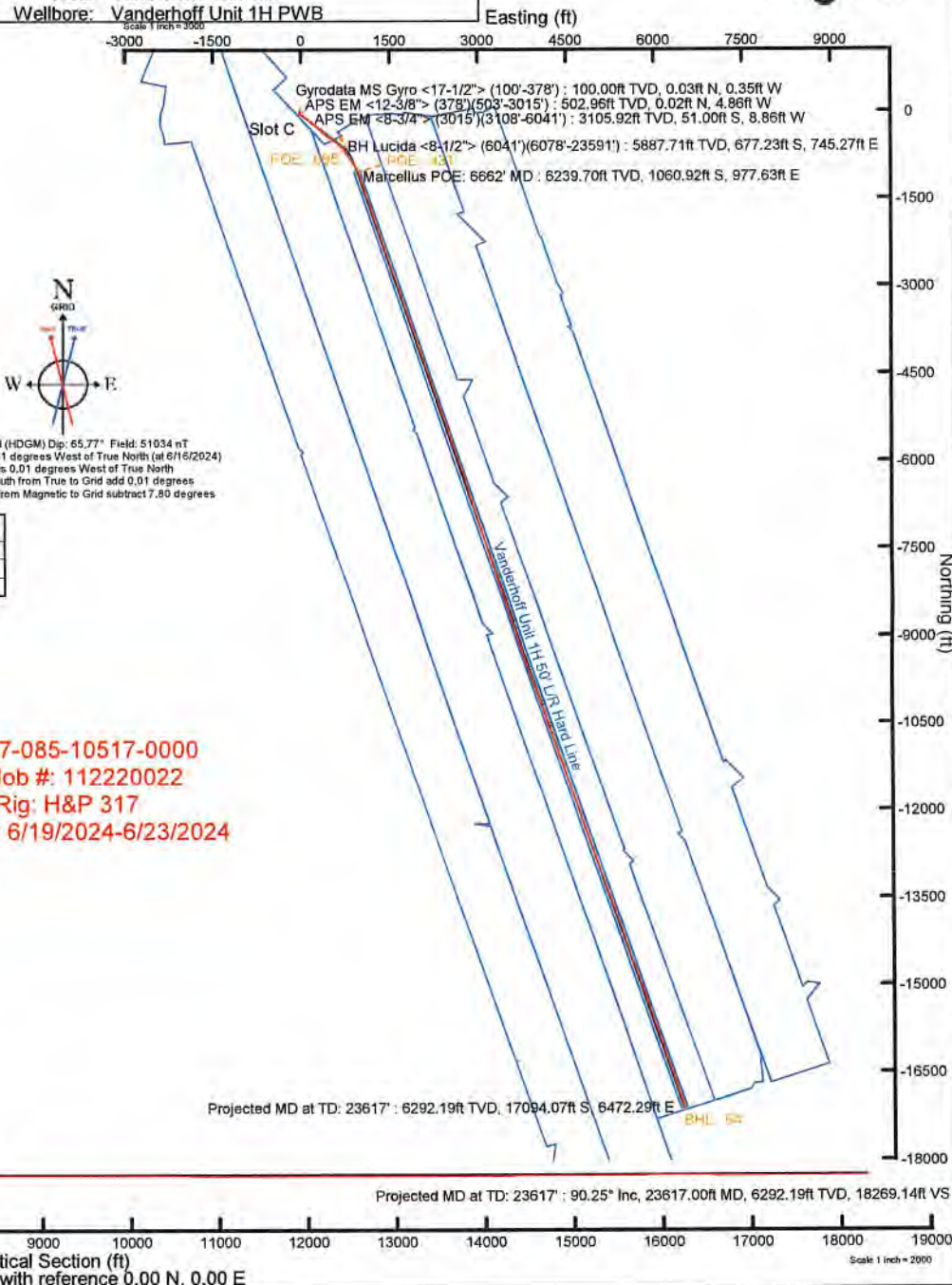
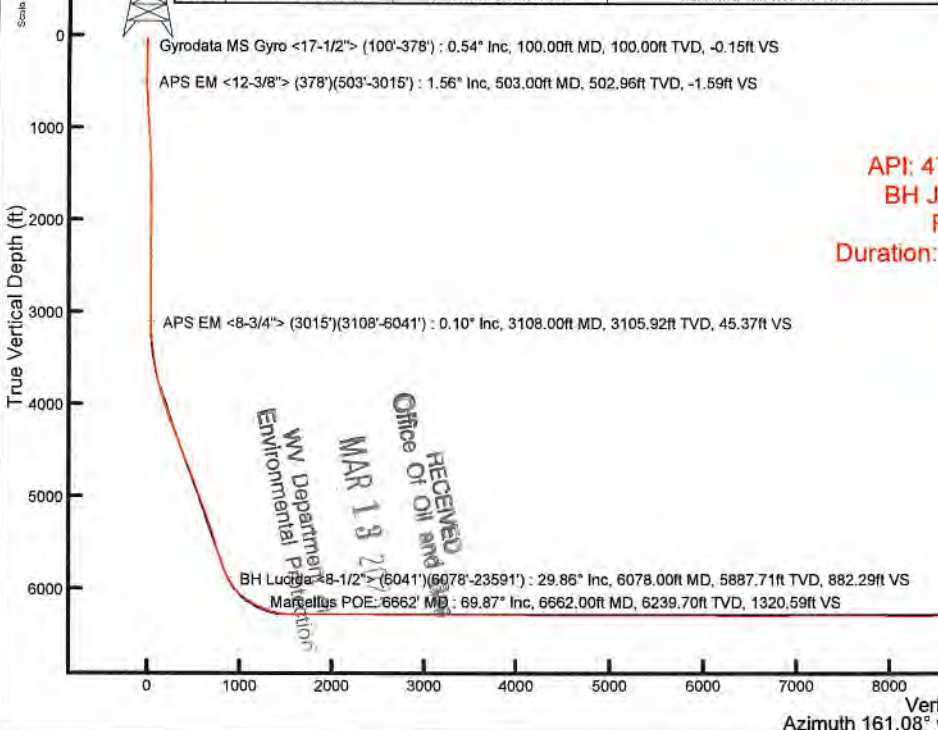


Plot reference wellpath is Vanderhoff Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1050.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1025 feet	Depths are in feet
Other wellpath MDs are referenced to each path's default MD datum	Created by: eddyan on 2024-05-25; Database: WA, MPL, EASTERNUS, Dain

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Olympus Pad	1638177.570	14265633.590	39°17'5.2943"N	81°00'28.4874"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot C	0.00	0.00	1638177.570	14265633.590	39°17'5.2943"N
Comment: Vanderhoff Unit 1H					
H&P 317 (RKB) to Ground level (At Slot: Slot C)					25.6ft
Mean Sea Level to Ground level (At Slot: Slot C)					-1025ft
H&P 317 (RKB) to Mean Sea Level					1050.5ft

Well Profile Data							
Design Comment	MD (ft)	Inc. (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3015.00	0.640	46.350	3012.93	-51.36	-9.32	45.56
Proj. to Bottom	3087.00	0.540	46.350	3084.92	-50.81	-8.74	45.23
KOP 1	3167.00	0.640	46.350	3164.92	-50.19	-8.09	44.85
End of 3D Arc	3928.52	22.926	128.346	3906.18	-140.47	112.92	169.50
Curve KOP	5987.18	22.926	128.346	5802.22	-538.01	741.86	844.09
POE	6639.70	70.761	161.076	6241.00	-1036.19	956.49	1290.34
Landing Pt.	6880.20	90.000	161.076	6281.00	-1259.43	1033.03	1526.34
BHL	23636.88	90.000	161.076	6281.00	-17110.44	6467.38	18283.03

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Vanderhoff Unit 1H	Vanderhoff Unit 1H AWB	Vanderhoff Unit 1H AWP Proj. 23617
Slot C	Vanderhoff Unit 1H	Vanderhoff Unit 1H PWB	Vanderhoff Unit 1H PWP Rev-B.0



API: 47-085-10517-0000
BH Job #: 112220022
Rig: H&P 317
Duration: 6/19/2024-6/23/2024



Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff 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	6/25/2024 at 11:20:31 AM
Convergence at slot	0.01° 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	0.00	0.00	1638177.57	14265633.59	39°17'5.2943"N	81°00'28.4874"W
Facility Reference Pt			1638177.57	14265633.59	39°17'5.2943"N	81°00'28.4874"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1050.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1050.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot C)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.08°

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'

Page 2 of 13



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Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (260 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†	0.00	275.590	0.00	0.00	0.00	0.00	1638177.57	14265633.59	39°17'5.2943"N	81°00'28.4874"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.00	275.590	25.50	0.00	0.00	0.00	1638177.57	14265633.59	39°17'5.2943"N	81°00'28.4874"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.540	275.590	100.00	-0.15	0.03	-0.35	1638177.22	14265633.62	39°17'5.2946"N	81°00'28.4919"W	0.35	275.590	0.72	0.72	0.00	Gyrodatta MS Gyro <17-1/2"> (100'-378')
200.00	0.540	291.320	199.99	-0.65	0.25	-1.26	1638176.31	14265633.84	39°17'5.2968"N	81°00'28.5034"W	1.28	281.308	0.15	0.00	15.73	
300.00	0.560	289.950	299.99	-1.26	0.59	-2.16	1638175.42	14265634.18	39°17'5.3001"N	81°00'28.5149"W	2.23	285.294	0.02	0.02	-1.37	
378.00	0.650	291.820	377.99	-1.78	0.88	-2.92	1638174.65	14265634.47	39°17'5.3030"N	81°00'28.5246"W	3.06	286.817	0.12	0.12	2.40	
503.00	1.560	228.470	502.96	-1.59	0.02	-4.86	1638172.72	14265633.61	39°17'5.2945"N	81°00'28.5492"W	4.86	270.229	1.12	0.73	-50.68	APS EM <12-3/8"> (378')(503'-3015')
592.00	3.590	209.030	591.87	0.74	-3.22	-7.12	1638170.46	14265630.37	39°17'5.2625"N	81°00'28.5779"W	7.81	245.650	2.45	2.28	-21.84	
680.00	3.970	205.480	679.68	4.76	-8.38	-9.76	1638167.81	14265625.21	39°17'5.2115"N	81°00'28.6116"W	12.87	229.362	0.51	0.43	-4.03	
768.00	3.500	207.500	767.49	8.79	-13.51	-12.31	1638165.26	14265620.08	39°17'5.1607"N	81°00'28.6440"W	18.28	222.345	0.55	-0.53	2.30	
857.00	4.600	201.030	856.27	13.40	-19.25	-14.85	1638162.73	14265614.34	39°17'5.1040"N	81°00'28.6763"W	24.31	217.642	1.34	1.24	-7.27	
946.00	4.930	200.920	944.96	19.07	-26.16	-17.50	1638160.08	14265607.44	39°17'5.0358"N	81°00'28.7099"W	31.47	213.778	0.37	0.37	-0.12	
1036.00	4.660	199.210	1034.65	24.92	-33.22	-20.08	1638157.50	14265600.38	39°17'4.9659"N	81°00'28.7428"W	38.82	211.150	0.34	-0.30	-1.90	
1130.00	4.220	200.660	1128.36	30.58	-40.06	-22.56	1638155.02	14265593.54	39°17'4.8983"N	81°00'28.7743"W	45.98	209.380	0.48	-0.47	1.54	
1224.00	3.000	187.610	1222.18	35.45	-45.74	-24.10	1638153.48	14265587.87	39°17'4.8422"N	81°00'28.7939"W	51.70	207.788	1.56	-1.30	-13.88	
1319.00	2.270	149.610	1317.08	39.52	-49.83	-23.48	1638154.10	14265583.78	39°17'4.8018"N	81°00'28.7860"W	55.08	205.232	1.95	-0.77	-40.00	
1414.00	1.820	121.020	1412.03	42.52	-52.23	-21.24	1638156.34	14265581.39	39°17'4.7781"N	81°00'28.7574"W	56.38	202.127	1.16	-0.47	-30.09	
1508.00	1.710	99.040	1505.98	44.32	-53.22	-18.57	1638159.01	14265580.40	39°17'4.7683"N	81°00'28.7236"W	56.36	199.238	0.72	-0.12	-23.38	
1603.00	0.760	97.980	1600.96	45.27	-53.53	-16.55	1638161.03	14265580.09	39°17'4.7653"N	81°00'28.6978"W	56.02	197.179	1.00	-1.00	-1.12	
1697.00	0.200	90.620	1694.96	45.61	-53.61	-15.77	1638161.81	14265580.00	39°17'4.7644"N	81°00'28.6879"W	55.88	196.386	0.60	-0.60	-7.83	
1791.00	0.380	105.620	1788.95	45.84	-53.70	-15.30	1638162.27	14265579.91	39°17'4.7635"N	81°00'28.6820"W	55.84	195.905	0.21	0.19	15.96	
1886.00	0.500	96.980	1883.95	46.20	-53.83	-14.59	1638162.99	14265579.78	39°17'4.7622"N	81°00'28.6729"W	55.78	195.160	0.14	0.13	-9.09	
1980.00	0.260	73.110	1977.95	46.38	-53.82	-13.98	1638163.60	14265579.79	39°17'4.7623"N	81°00'28.6651"W	55.61	194.556	0.30	-0.26	-25.39	
2075.00	0.480	85.920	2072.95	46.49	-53.73	-13.37	1638164.20	14265579.88	39°17'4.7632"N	81°00'28.6574"W	55.37	193.975	0.25	0.23	13.48	
2169.00	0.290	97.310	2166.94	46.70	-53.73	-12.74	1638164.83	14265579.88	39°17'4.7632"N	81°00'28.6494"W	55.22	193.342	0.22	-0.20	12.12	
2264.00	0.500	101.890	2261.94	47.02	-53.85	-12.10	1638165.48	14265579.76	39°17'4.7621"N	81°00'28.6413"W	55.19	192.663	0.22	0.22	4.82	
2359.00	0.480	77.220	2356.94	47.27	-53.85	-11.31	1638166.27	14265579.76	39°17'4.7621"N	81°00'28.6312"W	55.02	191.857	0.22	-0.02	-25.97	
2453.00	0.480	61.760	2450.94	47.25	-53.57	-10.57	1638167.00	14265580.04	39°17'4.7648"N	81°00'28.6219"W	54.61	191.166	0.14	0.00	-16.45	
2548.00	0.290	77.460	2545.93	47.21	-53.33	-9.99	1638167.58	14265580.28	39°17'4.7672"N	81°00'28.6144"W	54.26	190.609	0.23	-0.20	16.53	
2642.00	0.260	29.110	2639.93	47.10	-53.10	-9.65	1638167.92	14265580.52	39°17'4.7695"N	81°00'28.6101"W	53.97	190.305	0.24	-0.03	-51.44	

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'
Page 3 of 13



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Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWP
Slot	Slot C		

WELLPATH DATA (260 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
2737.00	0.170	26.010	2734.93	46.85	-52.78	-9.49	1638168.09	14265580.83	39°17'4.7726"N	81°00'28.6080"W	53.63	190.190	0.10	-0.09	-3.26	
2831.00	0.340	34.650	2828.93	46.59	-52.43	-9.27	1638168.31	14265581.19	39°17'4.7761"N	81°00'28.6052"W	53.24	190.024	0.18	0.18	9.19	
2926.00	0.470	310.450	2923.93	46.09	-51.94	-9.40	1638168.17	14265581.67	39°17'4.7809"N	81°00'28.6070"W	52.79	190.262	0.58	0.14	-88.63	
3015.00	0.640	46.350	3012.93	45.56	-51.36	-9.32	1638168.25	14265582.25	39°17'4.7867"N	81°00'28.6059"W	52.20	190.287	0.93	0.19	107.75	
3108.00	0.100	91.220	3105.92	45.37	-51.00	-8.86	1638168.71	14265582.61	39°17'4.7902"N	81°00'28.6001"W	51.77	189.860	0.82	-0.58	48.25	APS EM <8-3/4"> (3015')(3108'-6041')
3202.00	1.750	138.610	3199.91	46.73	-52.08	-7.83	1638169.74	14265581.53	39°17'4.7795"N	81°00'28.5870"W	52.67	188.553	1.79	1.76	50.41	
3299.00	4.980	123.510	3296.73	51.44	-55.52	-3.34	1638174.23	14265578.09	39°17'4.7456"N	81°00'28.5299"W	55.62	183.445	3.42	3.33	-15.57	
3394.00	7.140	129.510	3391.20	59.74	-61.55	4.65	1638182.22	14265572.06	39°17'4.6859"N	81°00'28.4282"W	61.73	175.678	2.37	2.27	6.32	
3488.00	10.330	120.340	3484.10	71.10	-69.53	16.44	1638194.00	14265564.09	39°17'4.6071"N	81°00'28.2783"W	71.45	166.700	3.69	3.39	-9.76	
3583.00	12.350	123.580	3577.24	85.62	-79.45	32.25	1638209.81	14265554.17	39°17'4.5091"N	81°00'28.0772"W	85.75	157.906	2.23	2.13	3.41	
3677.00	14.590	126.150	3668.65	103.30	-92.00	50.19	1638227.74	14265541.63	39°17'4.3851"N	81°00'27.8490"W	104.80	151.385	2.47	2.38	2.73	
3772.00	16.330	125.050	3760.21	123.91	-106.73	70.79	1638248.33	14265526.91	39°17'4.2395"N	81°00'27.5871"W	128.07	146.446	1.86	1.83	-1.16	
3866.00	18.640	124.100	3849.86	146.60	-122.74	94.05	1638271.58	14265510.90	39°17'4.0813"N	81°00'27.2912"W	154.63	142.540	2.48	2.46	-1.01	
3961.00	21.730	126.250	3939.01	173.17	-141.66	120.81	1638298.33	14265491.99	39°17'3.8943"N	81°00'26.9509"W	186.17	139.541	3.34	3.25	2.26	
4055.00	22.440	129.530	4026.12	202.75	-163.37	148.68	1638326.19	14265470.29	39°17'3.6798"N	81°00'26.5964"W	220.89	137.694	1.51	0.76	3.49	
4150.00	23.010	131.630	4113.75	234.37	-187.24	176.54	1638354.04	14265446.42	39°17'3.4438"N	81°00'26.2420"W	257.35	136.684	1.04	0.60	2.21	
4245.00	23.940	130.410	4200.88	267.12	-212.07	205.10	1638382.59	14265421.60	39°17'3.1984"N	81°00'25.8789"W	295.02	135.957	1.10	0.98	-1.28	
4339.00	23.640	130.270	4286.90	299.71	-236.62	234.00	1638411.48	14265397.07	39°17'2.9559"N	81°00'25.5113"W	332.78	135.318	0.32	-0.32	-0.15	
4434.00	22.940	131.060	4374.15	332.10	-261.09	262.49	1638439.96	14265372.61	39°17'2.7140"N	81°00'25.1489"W	370.23	134.846	0.81	-0.74	0.83	
4528.00	23.270	131.370	4460.61	364.09	-285.39	290.24	1638467.69	14265348.31	39°17'2.4738"N	81°00'24.7960"W	407.05	134.518	0.37	0.35	0.33	
4622.00	24.370	130.860	4546.61	396.97	-310.35	318.84	1638496.29	14265323.36	39°17'2.2271"N	81°00'24.4322"W	444.95	134.227	1.19	1.17	-0.54	
4717.00	24.970	133.520	4632.94	431.69	-336.99	348.21	1638525.64	14265296.74	39°17'1.9639"N	81°00'24.0587"W	484.57	134.062	1.33	0.63	2.80	
4811.00	23.180	131.600	4718.76	465.38	-362.93	376.43	1638553.85	14265270.80	39°17'1.7075"N	81°00'23.6998"W	522.90	133.954	2.08	-1.90	-2.04	
4908.00	22.570	130.610	4808.13	498.05	-387.73	404.84	1638582.25	14265246.02	39°17'1.4625"N	81°00'23.3385"W	560.56	133.763	0.74	-0.63	-1.02	
5003.00	22.790	129.560	4895.78	529.44	-411.31	432.87	1638610.26	14265222.44	39°17'1.2294"N	81°00'22.9820"W	597.12	133.537	0.49	0.23	-1.11	
5097.00	24.550	125.250	4981.88	560.80	-434.18	462.85	1638640.24	14265199.59	39°17'1.0034"N	81°00'22.6006"W	634.62	133.169	2.62	1.87	-4.59	
5191.00	24.140	125.590	5067.52	592.28	-456.64	494.43	1638671.80	14265177.14	39°17'0.7814"N	81°00'22.1990"W	673.04	132.724	0.46	-0.44	0.36	
5285.00	24.640	128.590	5153.13	624.46	-480.05	525.38	1638702.74	14265153.74	39°17'0.5501"N	81°00'21.8054"W	711.67	132.418	1.42	0.53	3.19	
5380.00	24.350	129.700	5239.58	657.89	-504.91	555.93	1638733.28	14265128.88	39°17'0.3043"N	81°00'21.4169"W	750.99	132.247	0.57	-0.31	1.17	
5474.00	21.840	125.310	5326.05	688.63	-527.40	585.11	1638762.45	14265106.40	39°17'0.0821"N	81°00'21.0457"W	787.72	132.030	3.24	-2.67	-4.67	

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Page 4 of 13



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Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

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5569.00	19.690	125.020	5414.87	715.90	-546.80	612.64	1638789.97	14265087.01	39°16'59.8904"N	81°00'20.6956"W	821.17	131.750	2.27	-2.26	-0.31	
5663.00	18.980	127.890	5503.57	741.50	-565.27	637.68	1638814.99	14265068.54	39°16'59.7078"N	81°00'20.3772"W	852.16	131.556	1.26	-0.76	3.05	
5758.00	20.150	133.910	5593.10	768.99	-586.11	661.66	1638838.97	14265047.71	39°16'59.5018"N	81°00'20.0722"W	883.93	131.535	2.45	1.23	6.34	
5852.00	20.600	133.800	5681.22	798.09	-608.79	685.26	1638862.56	14265025.05	39°16'59.2777"N	81°00'19.7721"W	916.63	131.618	0.48	0.48	-0.12	
5947.00	22.230	135.040	5769.65	829.09	-633.07	710.02	1638887.31	14265000.77	39°16'59.0377"N	81°00'19.4572"W	951.27	131.721	1.78	1.72	1.31	
6041.00	26.890	144.050	5855.16	865.43	-662.89	735.09	1638912.36	14264970.97	39°16'58.7430"N	81°00'19.1383"W	989.84	132.044	6.35	4.96	9.59	
6078.00	29.860	145.150	5887.71	882.29	-677.23	745.27	1638922.54	14264956.64	39°16'58.6013"N	81°00'19.0089"W	1007.01	132.261	8.15	8.03	2.97	BH Lucida <8-1/2"> (6041')(6078'-23591')
6172.00	36.930	146.020	5966.14	932.12	-719.90	774.46	1638951.72	14264913.98	39°16'58.1796"N	81°00'18.6376"W	1057.38	132.909	7.54	7.52	0.93	
6234.00†	41.969	145.715	6014.00	970.12	-752.50	796.56	1638973.81	14264881.40	39°16'57.8574"N	81°00'18.3565"W	1095.79	133.371	8.13	8.13	-0.49	Sycamore: 6234' MD
6286.00	44.570	145.580	6037.30	991.26	-770.60	808.94	1638986.18	14264863.30	39°16'57.6785"N	81°00'18.1991"W	1117.23	133.610	8.13	8.13	-0.42	
6361.00	52.960	145.410	6099.86	1060.02	-829.42	849.38	1639026.61	14264804.50	39°16'57.0972"N	81°00'17.6848"W	1187.17	134.319	8.83	8.83	-0.18	
6372.00†	53.654	145.723	6106.43	1068.51	-836.69	854.36	1639031.59	14264797.23	39°16'57.0253"N	81°00'17.6214"W	1195.82	134.401	6.71	6.31	2.85	Middlesex: 6372' MD
6456.00	58.980	147.950	6153.01	1136.24	-895.20	892.55	1639069.76	14264738.75	39°16'56.4470"N	81°00'17.1357"W	1264.13	135.085	6.71	6.34	2.65	
6550.00	65.470	151.730	6196.80	1217.77	-967.10	934.23	1639111.42	14264666.88	39°16'55.7364"N	81°00'16.6056"W	1344.64	135.990	7.77	6.90	4.02	
6583.00†	66.515	153.785	6210.20	1247.61	-993.91	948.03	1639125.22	14264640.08	39°16'55.4714"N	81°00'16.4301"W	1373.54	136.353	6.66	3.47	6.23	Burkett: 6583' MD
6640.00†	68.654	157.251	6231.89	1300.06	-1041.87	969.86	1639147.04	14264592.14	39°16'54.9974"N	81°00'16.1525"W	1423.42	137.050	6.66	3.58	6.08	Tully: 6640' MD
6644.00	68.800	157.490	6233.34	1303.78	-1045.31	971.29	1639148.47	14264588.70	39°16'54.9634"N	81°00'16.1342"W	1426.92	137.102	6.66	3.64	5.99	
6662.00†	69.870	158.276	6239.70	1320.59	-1060.92	977.63	1639154.81	14264573.10	39°16'54.8092"N	81°00'16.0536"W	1442.68	137.339	7.21	5.94	4.37	Marcellus POE: 6662' MD
6691.00	71.600	159.520	6249.27	1347.95	-1086.46	987.49	1639164.66	14264547.57	39°16'54.5567"N	81°00'15.9283"W	1468.17	137.732	7.21	5.97	4.29	
6738.00	76.010	159.220	6262.37	1393.05	-1128.69	1003.39	1639180.56	14264505.36	39°16'54.1394"N	81°00'15.7260"W	1510.20	138.363	9.40	9.38	-0.64	
6833.00	85.910	161.150	6277.28	1486.74	-1216.84	1035.13	1639212.28	14264417.24	39°16'53.2680"N	81°00'15.3223"W	1597.56	139.613	10.61	10.42	2.03	
6928.00	90.030	161.400	6280.64	1581.66	-1306.74	1065.60	1639242.74	14264327.38	39°16'52.3795"N	81°00'14.9348"W	1686.14	140.804	4.34	4.34	0.26	
7022.00	89.910	161.190	6280.69	1675.66	-1395.77	1095.75	1639272.88	14264238.38	39°16'51.4996"N	81°00'14.5513"W	1774.50	141.866	0.26	-0.13	-0.22	
7116.00	90.080	161.130	6280.72	1769.66	-1484.74	1126.10	1639303.22	14264149.45	39°16'50.6203"N	81°00'14.1653"W	1863.48	142.821	0.17	0.16	-0.06	
7211.00	89.660	161.080	6280.95	1864.66	-1574.62	1156.87	1639333.97	14264059.60	39°16'49.7319"N	81°00'13.7740"W	1953.91	143.895	0.42	-0.42	-0.05	
7306.00	89.780	161.210	6281.42	1959.66	-1664.52	1187.57	1639364.66	14263969.74	39°16'48.8434"N	81°00'13.3835"W	2044.74	144.494	0.19	0.13	0.14	
7400.00	89.820	161.160	6281.74	2053.65	-1753.49	1217.89	1639394.97	14263880.80	39°16'47.9640"N	81°00'12.9979"W	2134.95	145.218	0.08	0.04	-0.06	
7494.00	89.660	161.030	6282.17	2147.65	-1842.42	1248.35	1639425.42	14263791.91	39°16'47.0851"N	81°00'12.6104"W	2225.51	145.880	0.21	-0.17	-0.13	
7589.00	89.660	161.240	6282.73	2242.65	-1932.31	1279.07	1639456.13	14263702.05	39°16'46.1966"N	81°00'12.2198"W	2317.30	146.498	0.22	0.00	0.22	
7683.00	89.750	161.380	6283.22	2336.65	-2021.36	1309.19	1639486.24	14263613.05	39°16'45.3166"N	81°00'11.8367"W	2408.29	147.070	0.18	0.10	0.15	

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (260 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
7778.00	89.720	161.070	6283.66	2431.65	-2111.30	1339.77	1639516.80	14263523.14	39°16'44.4276"N	81°00'11.4478"W	2500.51	147.602	0.33	-0.03	-0.33	
7872.00	89.660	161.070	6284.17	2525.65	-2200.22	1370.26	1639547.28	14263434.26	39°16'43.5488"N	81°00'11.0600"W	2592.02	148.086	0.06	-0.06	0.00	
7966.00	89.690	161.150	6284.70	2619.65	-2289.15	1400.70	1639577.70	14263345.36	39°16'42.6698"N	81°00'10.6730"W	2683.68	148.538	0.09	0.03	0.09	
8061.00	89.540	160.670	6285.34	2714.64	-2378.92	1431.76	1639608.76	14263255.62	39°16'41.7825"N	81°00'10.2778"W	2776.55	148.958	0.53	-0.16	-0.51	
8155.00	89.970	161.870	6285.74	2808.64	-2467.94	1461.95	1639638.93	14263166.64	39°16'40.9027"N	81°00'9.8940"W	2868.46	149.359	1.36	0.46	1.28	
8249.00	89.780	160.570	6285.94	2902.64	-2556.94	1492.21	1639669.18	14263077.68	39°16'40.0231"N	81°00'9.5091"W	2960.51	149.732	1.40	-0.20	-1.38	
8344.00	89.880	160.910	6286.23	2997.63	-2646.62	1523.55	1639700.50	14262988.03	39°16'39.1367"N	81°00'9.1106"W	3053.81	150.073	0.37	0.11	0.36	
8438.00	89.970	160.900	6286.35	3091.63	-2735.45	1554.30	1639731.24	14262899.24	39°16'38.2587"N	81°00'8.7196"W	3146.19	150.395	0.10	0.10	-0.01	
8533.00	89.970	161.050	6286.40	3186.63	-2825.26	1585.26	1639762.20	14262809.47	39°16'37.3711"N	81°00'8.3257"W	3239.62	150.703	0.16	0.00	0.16	
8627.00	89.940	161.150	6286.47	3280.63	-2914.19	1615.71	1639792.63	14262720.57	39°16'36.4921"N	81°00'7.9385"W	3332.12	150.995	0.11	-0.03	0.11	
8722.00	89.880	160.940	6286.62	3375.63	-3004.04	1646.57	1639823.48	14262630.76	39°16'35.6041"N	81°00'7.5461"W	3425.70	151.272	0.23	-0.06	-0.22	
8817.00	89.910	161.140	6286.80	3470.63	-3093.88	1677.44	1639854.33	14262540.95	39°16'34.7161"N	81°00'7.1536"W	3519.36	151.534	0.21	0.03	0.21	
8911.00	89.660	160.980	6287.15	3564.63	-3182.79	1707.95	1639884.83	14262452.08	39°16'33.8373"N	81°00'6.7656"W	3612.10	151.781	0.32	-0.27	-0.17	
9006.00	89.630	160.910	6287.74	3659.63	-3272.59	1738.96	1639915.83	14262362.32	39°16'32.9498"N	81°00'6.3712"W	3705.92	152.015	0.08	-0.03	-0.07	
9100.00	89.630	161.010	6288.34	3753.63	-3361.44	1769.63	1639946.48	14262273.50	39°16'32.0716"N	81°00'5.9812"W	3798.80	152.236	0.11	0.00	0.11	
9195.00	89.690	160.970	6288.91	3848.63	-3451.26	1800.57	1639977.42	14262183.72	39°16'31.1839"N	81°00'5.5877"W	3892.72	152.448	0.08	0.06	-0.04	
9289.00	89.630	160.780	6289.47	3942.62	-3540.07	1831.37	1640008.20	14262094.94	39°16'30.3061"N	81°00'5.1961"W	3985.72	152.646	0.21	-0.06	-0.20	
9383.00	89.780	161.260	6289.95	4036.62	-3628.96	1861.94	1640038.76	14262006.09	39°16'29.4276"N	81°00'4.8073"W	4078.74	152.839	0.53	0.16	0.51	
9478.00	89.660	161.160	6290.41	4131.62	-3718.89	1892.54	1640069.35	14261916.19	39°16'28.5387"N	81°00'4.4182"W	4172.75	153.029	0.16	-0.13	-0.11	
9572.00	89.660	160.760	6290.97	4225.62	-3807.75	1923.20	1640100.00	14261827.37	39°16'27.6605"N	81°00'4.0283"W	4265.87	153.203	0.43	0.00	-0.43	
9666.00	89.630	161.340	6291.55	4319.62	-3896.65	1953.73	1640130.51	14261738.50	39°16'26.7818"N	81°00'3.6401"W	4359.01	153.371	0.62	-0.03	0.62	
9761.00	89.720	160.980	6292.09	4414.62	-3986.56	1984.41	1640161.18	14261648.63	39°16'25.8931"N	81°00'3.2500"W	4453.15	153.537	0.39	0.09	-0.38	
9855.00	89.630	160.900	6292.63	4508.61	-4075.41	2015.10	1640191.86	14261559.82	39°16'25.0150"N	81°00'2.8597"W	4546.38	153.690	0.13	-0.10	-0.09	
9949.00	89.660	161.440	6293.21	4602.61	-4164.37	2045.44	1640222.19	14261470.89	39°16'24.1357"N	81°00'2.4739"W	4639.59	153.841	0.58	0.03	0.57	
10044.00	89.510	159.740	6293.90	4697.60	-4253.97	2077.01	1640253.74	14261381.33	39°16'23.2501"N	81°00'2.0725"W	4733.94	153.976	1.80	-0.16	-1.79	
10138.00	89.850	159.470	6294.42	4791.57	-4342.07	2109.77	1640286.49	14261293.26	39°16'22.3793"N	81°00'1.6559"W	4827.50	154.085	0.46	0.36	-0.29	
10233.00	89.940	161.450	6294.60	4886.56	-4431.60	2141.54	1640318.25	14261203.77	39°16'21.4945"N	81°00'1.2519"W	4921.92	154.208	2.09	0.09	2.08	
10327.00	89.880	160.980	6294.74	4980.56	-4520.59	2171.81	1640348.51	14261114.82	39°16'20.6149"N	81°00'0.8670"W	5015.23	154.339	0.50	-0.06	-0.50	
10422.00	89.880	160.700	6294.94	5075.56	-4610.33	2202.99	1640379.67	14261025.11	39°16'19.7280"N	81°00'0.4706"W	5109.63	154.460	0.29	0.00	-0.29	
10516.00	89.910	161.180	6295.11	5169.56	-4699.17	2233.68	1640410.36	14260936.30	39°16'18.8498"N	81°00'0.0803"W	5203.04	154.577	0.51	0.03	0.51	

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'
Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (260 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
10611.00	89.880	161.070	6295.29	5264.56	-4789.07	2264.42	1640441.08	14260846.45	39°16'17.9614"N	80°59'59.6895"W	5297.43	154.694	0.12	-0.03	-0.12	
10705.00	89.850	160.590	6295.51	5358.55	-4877.85	2295.28	1640471.93	14260757.70	39°16'17.0838"N	80°59'59.2970"W	5390.90	154.801	0.51	-0.03	-0.51	
10800.00	89.910	160.670	6295.71	5453.55	-4967.48	2326.79	1640503.43	14260668.11	39°16'16.1980"N	80°59'58.8964"W	5485.41	154.901	0.11	0.06	0.08	
10894.00	89.820	160.720	6295.93	5547.55	-5056.19	2357.87	1640534.49	14260579.43	39°16'15.3212"N	80°59'58.5012"W	5578.94	154.999	0.11	-0.10	0.05	
10989.00	89.880	160.980	6296.18	5642.55	-5145.93	2389.03	1640565.64	14260489.73	39°16'14.4342"N	80°59'58.1050"W	5673.46	155.097	0.28	0.06	0.27	
11083.00	89.910	160.830	6296.35	5736.55	-5234.76	2419.78	1640596.38	14260400.93	39°16'13.5562"N	80°59'57.7140"W	5766.98	155.191	0.16	0.03	-0.16	
11178.00	89.880	160.820	6296.53	5831.55	-5324.49	2450.99	1640627.57	14260311.24	39°16'12.6694"N	80°59'57.3173"W	5861.53	155.282	0.03	-0.03	-0.01	
11272.00	89.910	160.880	6296.70	5925.54	-5413.29	2481.82	1640658.39	14260222.48	39°16'11.7917"N	80°59'56.9252"W	5955.09	155.370	0.07	0.03	0.06	
11367.00	89.850	160.930	6296.90	6020.54	-5503.06	2512.90	1640689.46	14260132.74	39°16'10.9044"N	80°59'56.5301"W	6049.66	155.457	0.08	-0.06	0.05	
11461.00	89.880	160.780	6297.12	6114.54	-5591.86	2543.73	1640720.28	14260043.98	39°16'10.0267"N	80°59'56.1381"W	6143.25	155.539	0.16	0.03	-0.16	
11555.00	89.910	160.830	6297.29	6208.54	-5680.63	2574.63	1640751.17	14259955.24	39°16'9.1493"N	80°59'55.7452"W	6236.85	155.619	0.06	0.03	0.05	
11649.00	89.880	160.980	6297.46	6302.54	-5769.46	2605.38	1640781.91	14259866.45	39°16'8.2714"N	80°59'55.3542"W	6330.46	155.697	0.16	-0.03	0.16	
11743.00	89.970	160.940	6297.59	6396.54	-5858.32	2636.05	1640812.56	14259777.63	39°16'7.3931"N	80°59'54.9643"W	6424.07	155.774	0.10	0.10	-0.04	
11838.00	89.910	160.980	6297.69	6491.54	-5948.12	2667.04	1640843.54	14259687.86	39°16'6.5055"N	80°59'54.5703"W	6518.69	155.849	0.08	-0.06	0.04	
11932.00	90.000	160.900	6297.76	6585.54	-6038.97	2697.74	1640874.22	14259599.05	39°16'5.6274"N	80°59'54.1800"W	6612.32	155.922	0.13	0.10	-0.09	
12027.00	89.880	160.650	6297.86	6680.54	-6126.67	2729.02	1640905.49	14259509.38	39°16'4.7408"N	80°59'53.7823"W	6706.98	155.990	0.29	-0.13	-0.26	
12121.00	89.720	158.450	6298.19	6774.50	-6214.74	2761.86	1640938.32	14259421.35	39°16'3.8703"N	80°59'53.3848"W	6800.80	156.039	2.35	-0.17	-2.34	
12215.00	90.550	163.410	6297.97	6868.47	-6303.55	2792.56	1640969.01	14259332.57	39°16'2.9925"N	80°59'52.9744"W	6894.43	156.106	5.35	0.88	5.28	
12310.00	91.290	166.910	6296.44	6963.20	-6395.36	2816.89	1640993.32	14259240.80	39°16'2.0851"N	80°59'52.6652"W	6988.24	156.229	3.77	0.78	3.68	
12404.00	90.520	163.120	6294.95	7056.95	-6486.13	2841.18	1641017.61	14259150.06	39°16'1.1879"N	80°59'52.3563"W	7081.12	156.345	4.11	-0.82	-4.03	
12499.00	90.400	162.680	6294.19	7151.90	-6576.93	2869.12	1641045.53	14259059.30	39°16'0.2905"N	80°59'52.0011"W	7175.50	156.431	0.48	-0.13	-0.46	
12593.00	90.370	161.920	6293.56	7245.87	-6666.48	2897.70	1641074.10	14258969.79	39°15'59.4054"N	80°59'51.6378"W	7269.01	156.507	0.81	-0.03	-0.81	
12687.00	90.430	162.050	6292.90	7339.86	-6755.87	2926.77	1641103.16	14258880.44	39°15'58.5219"N	80°59'51.2682"W	7362.59	156.577	0.15	0.06	0.14	
12782.00	90.280	162.050	6292.32	7434.84	-6846.24	2956.04	1641132.43	14258790.10	39°15'57.6287"N	80°59'50.8960"W	7457.16	156.646	0.16	-0.16	0.00	
12877.00	89.910	161.910	6292.16	7529.83	-6936.58	2985.43	1641161.80	14258699.80	39°15'56.7358"N	80°59'50.5224"W	7551.75	156.713	0.42	-0.39	-0.15	
12971.00	89.350	161.940	6292.76	7623.82	-7025.94	3014.60	1641190.95	14258610.47	39°15'55.8525"N	80°59'50.1517"W	7645.37	156.777	0.60	-0.60	0.03	
13066.00	89.450	162.010	6293.76	7718.80	-7116.27	3043.99	1641220.34	14258520.18	39°15'54.9597"N	80°59'49.7780"W	7739.97	156.841	0.13	0.11	0.07	
13160.00	89.140	161.870	6294.92	7812.78	-7205.63	3073.13	1641249.46	14258430.85	39°15'54.0765"N	80°59'49.4075"W	7833.60	156.902	0.36	-0.33	-0.15	
13255.00	89.140	161.930	6296.34	7907.76	-7295.92	3102.64	1641278.96	14258340.60	39°15'53.1841"N	80°59'49.0324"W	7928.23	156.962	0.06	0.00	0.06	
13348.00	89.170	161.920	6297.71	8000.74	-7384.32	3131.49	1641307.80	14258252.23	39°15'52.3103"N	80°59'48.6656"W	8020.88	157.020	0.03	0.03	-0.01	

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (260 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
13443.00	89.200	161.920	6299.07	8095.72	-7474.62	3160.97	1641337.27	14258181.97	39°15'51.4178"N	80°59'48.2908"W	8115.52	157.077	0.03	0.03	0.00	
13537.00	90.120	162.850	6299.62	8189.70	-7564.21	3189.42	1641365.70	14258072.42	39°15'50.5323"N	80°59'47.9292"W	8209.12	157.138	1.39	0.98	0.99	
13632.00	90.650	162.120	6298.98	8284.66	-7654.81	3218.01	1641394.28	14257981.86	39°15'49.6369"N	80°59'47.5658"W	8303.71	157.199	0.95	0.56	-0.77	
13726.00	90.460	161.640	6298.07	8378.65	-7744.14	3247.24	1641423.50	14257892.56	39°15'48.7539"N	80°59'47.1942"W	8397.40	157.251	0.55	-0.20	-0.51	
13821.00	90.550	161.850	6297.24	8473.64	-7834.35	3277.00	1641453.25	14257802.38	39°15'47.8623"N	80°59'46.8159"W	8492.10	157.301	0.24	0.09	0.22	
13915.00	90.550	161.910	6296.33	8567.63	-7923.69	3306.23	1641482.47	14257713.09	39°15'46.9793"N	80°59'46.4443"W	8585.80	157.351	0.06	0.00	0.06	
14009.00	90.490	161.780	6295.48	8661.61	-8013.01	3335.52	1641511.75	14257623.81	39°15'46.0965"N	80°59'46.0719"W	8679.51	157.400	0.15	-0.06	-0.14	
14104.00	90.520	161.880	6294.64	8756.60	-8103.27	3365.14	1641541.36	14257533.58	39°15'45.2044"N	80°59'45.6954"W	8774.23	157.448	0.11	0.03	0.11	
14198.00	90.550	161.890	6293.77	8850.59	-8192.60	3394.37	1641570.57	14257444.28	39°15'44.3214"N	80°59'45.3239"W	8867.95	157.495	0.03	0.03	0.01	
14292.00	89.970	161.980	6293.34	8944.58	-8281.97	3423.52	1641599.71	14257354.95	39°15'43.4381"N	80°59'44.9533"W	8961.66	157.541	0.62	-0.62	0.10	
14386.00	89.880	161.920	6293.46	9038.57	-8371.34	3452.64	1641628.82	14257265.61	39°15'42.5547"N	80°59'44.5831"W	9055.39	157.587	0.12	-0.10	-0.06	
14481.00	89.850	161.790	6293.69	9133.56	-8461.62	3482.23	1641658.40	14257175.38	39°15'41.6625"N	80°59'44.2070"W	9150.13	157.631	0.14	-0.03	-0.14	
14575.00	89.880	161.670	6293.91	9227.55	-8550.88	3511.69	1641687.85	14257086.15	39°15'40.7802"N	80°59'43.8324"W	9243.89	157.673	0.13	0.03	-0.13	
14669.00	89.910	161.830	6294.08	9321.54	-8640.15	3541.13	1641717.28	14256996.91	39°15'39.8979"N	80°59'43.4582"W	9337.65	157.714	0.17	0.03	0.17	
14764.00	89.820	160.930	6294.30	9416.54	-8730.18	3571.46	1641747.60	14256906.92	39°15'39.0080"N	80°59'43.0727"W	9432.46	157.751	0.95	-0.09	-0.95	
14858.00	89.910	160.780	6294.53	9510.54	-8818.98	3602.29	1641778.41	14256818.16	39°15'38.1303"N	80°59'42.6808"W	9526.32	157.781	0.19	0.10	-0.16	
14953.00	89.880	160.740	6294.70	9605.54	-8908.67	3633.60	1641809.71	14256728.50	39°15'37.2438"N	80°59'42.2829"W	9621.20	157.811	0.05	-0.03	-0.04	
15047.00	89.940	160.920	6294.85	9699.54	-8997.46	3664.46	1641840.56	14256639.75	39°15'36.3662"N	80°59'41.8905"W	9715.07	157.840	0.20	0.06	0.19	
15141.00	89.910	160.830	6294.97	9793.54	-9086.27	3695.26	1641871.35	14256550.97	39°15'35.4884"N	80°59'41.4991"W	9808.94	157.869	0.10	-0.03	-0.10	
15236.00	89.880	160.610	6295.14	9888.54	-9175.94	3726.63	1641902.70	14256461.34	39°15'34.6021"N	80°59'41.1004"W	9903.82	157.896	0.23	-0.03	-0.23	
15330.00	89.880	160.700	6295.34	9982.53	-9264.63	3757.77	1641933.83	14256372.68	39°15'33.7255"N	80°59'40.7046"W	9997.71	157.922	0.10	0.00	0.10	
15423.00	89.970	160.660	6295.46	10075.53	-9352.40	3788.53	1641964.58	14256284.95	39°15'32.8580"N	80°59'40.3135"W	10090.60	157.948	0.11	0.10	-0.04	
15518.00	89.910	160.760	6295.56	10170.53	-9442.06	3819.92	1641995.95	14256195.32	39°15'31.9718"N	80°59'39.9146"W	10185.50	157.974	0.12	-0.06	0.11	
15612.00	89.750	160.170	6295.84	10264.52	-9530.65	3851.35	1642027.37	14256106.77	39°15'31.0962"N	80°59'39.5150"W	10279.41	157.996	0.65	-0.17	-0.63	
15706.00	89.820	160.520	6296.19	10358.51	-9619.17	3882.97	1642058.98	14256018.28	39°15'30.2212"N	80°59'39.1132"W	10373.33	158.018	0.38	0.07	0.37	
15801.00	89.780	158.650	6296.53	10453.48	-9708.20	3916.10	1642092.10	14255929.29	39°15'29.3413"N	80°59'38.6920"W	10468.29	158.032	1.97	-0.04	-1.97	
15895.00	89.820	160.820	6296.85	10547.44	-9796.38	3948.66	1642124.64	14255841.15	39°15'28.4697"N	80°59'38.2782"W	10562.24	158.047	2.31	0.04	2.31	
15989.00	89.850	160.570	6297.12	10641.44	-9885.09	3979.73	1642155.70	14255752.47	39°15'27.5929"N	80°59'37.8832"W	10656.14	158.070	0.27	0.03	-0.27	
16084.00	89.940	160.880	6297.30	10736.44	-9974.77	4011.09	1642187.05	14255662.83	39°15'26.7065"N	80°59'37.4846"W	10751.04	158.094	0.34	0.09	0.33	
16178.00	89.880	160.790	6297.45	10830.44	-10063.56	4041.95	1642217.90	14255574.08	39°15'25.8289"N	80°59'37.0924"W	10844.93	158.117	0.12	-0.06	-0.10	

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (260 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
16272.00	90.030	160.740	6297.52	10924.44	-10152.31	4072.92	1642248.85	14255485.36	39°15'24.9517"N	80°59'36.6988"W	10938.83	158.140	0.17	0.16	-0.05	
16367.00	89.970	160.710	6297.52	11019.44	-10241.98	4104.28	1642280.20	14255395.72	39°15'24.0653"N	80°59'36.3002"W	11033.74	158.162	0.07	-0.06	-0.03	
16461.00	90.030	161.020	6297.52	11113.43	-10330.79	4135.09	1642311.00	14255306.95	39°15'23.1876"N	80°59'35.9086"W	11127.63	158.185	0.34	0.06	0.33	
16555.00	89.910	160.780	6297.57	11207.43	-10419.61	4165.85	1642341.75	14255218.16	39°15'22.3096"N	80°59'35.5177"W	11221.53	158.208	0.29	-0.13	-0.26	
16649.00	89.970	160.990	6297.67	11301.43	-10508.43	4196.63	1642372.52	14255129.38	39°15'21.4318"N	80°59'35.1264"W	11315.43	158.230	0.23	0.06	0.22	
16743.00	89.910	160.840	6297.77	11395.43	-10597.26	4227.37	1642403.24	14255040.58	39°15'20.5537"N	80°59'34.7358"W	11409.32	158.252	0.17	-0.06	-0.16	
16838.00	89.750	160.660	6298.05	11490.43	-10686.95	4258.69	1642434.55	14254950.93	39°15'19.6673"N	80°59'34.3377"W	11504.23	158.273	0.25	-0.17	-0.19	
16932.00	89.820	160.630	6298.40	11584.43	-10775.64	4289.84	1642465.69	14254862.28	39°15'18.7907"N	80°59'33.9418"W	11598.15	158.292	0.08	0.07	-0.03	
17026.00	89.780	160.770	6298.73	11678.42	-10864.36	4320.91	1642496.74	14254773.60	39°15'17.9138"N	80°59'33.5469"W	11692.07	158.312	0.15	-0.04	0.15	
17121.00	89.750	160.760	6299.12	11773.42	-10954.05	4352.21	1642528.03	14254683.94	39°15'17.0272"N	80°59'33.1492"W	11786.98	158.331	0.03	-0.03	-0.01	
17215.00	89.780	160.770	6299.50	11867.42	-11042.80	4383.18	1642558.98	14254595.22	39°15'16.1500"N	80°59'32.7556"W	11880.90	158.351	0.03	0.03	0.01	
17309.00	89.750	160.880	6299.89	11961.42	-11131.59	4414.05	1642589.85	14254506.48	39°15'15.2724"N	80°59'32.3632"W	11974.81	158.370	0.12	-0.03	0.12	
17404.00	89.820	160.810	6300.25	12056.42	-11221.33	4445.22	1642621.00	14254416.77	39°15'14.3855"N	80°59'31.9671"W	12069.72	158.389	0.10	0.07	-0.07	
17498.00	89.720	160.630	6300.62	12150.41	-11310.06	4476.26	1642652.03	14254328.08	39°15'13.5085"N	80°59'31.5726"W	12163.64	158.407	0.22	-0.11	-0.19	
17593.00	89.750	160.800	6301.06	12245.41	-11399.72	4507.63	1642683.39	14254238.45	39°15'12.6222"N	80°59'31.1739"W	12258.57	158.425	0.18	0.03	0.18	
17687.00	89.820	160.850	6301.42	12339.41	-11488.51	4538.51	1642714.25	14254149.70	39°15'11.7446"N	80°59'30.7815"W	12352.48	158.444	0.09	0.07	0.05	
17782.00	89.720	160.680	6301.80	12434.41	-11578.20	4569.80	1642745.54	14254060.04	39°15'10.8581"N	80°59'30.3838"W	12447.41	158.461	0.21	-0.11	-0.18	
17876.00	89.820	160.720	6302.17	12528.40	-11666.92	4600.87	1642776.59	14253971.36	39°15'9.9812"N	80°59'29.9889"W	12541.33	158.478	0.11	0.11	0.04	
17970.00	89.940	160.800	6302.37	12622.40	-11755.67	4631.85	1642807.56	14253882.65	39°15'9.1040"N	80°59'29.5953"W	12635.26	158.495	0.15	0.13	0.09	
18065.00	89.780	160.750	6302.60	12717.40	-11845.37	4663.13	1642838.83	14253792.98	39°15'8.2173"N	80°59'29.1978"W	12730.18	158.512	0.18	-0.17	-0.05	
18159.00	89.970	160.950	6302.81	12811.40	-11934.17	4693.97	1642869.65	14253704.22	39°15'7.3397"N	80°59'28.8059"W	12824.11	158.529	0.29	0.20	0.21	
18254.00	90.430	160.950	6302.48	12906.40	-12023.97	4724.97	1642900.64	14253614.46	39°15'6.4521"N	80°59'28.4118"W	12919.02	158.547	0.48	0.48	0.00	
18348.00	90.310	160.980	6301.87	13000.40	-12112.82	4755.63	1642931.29	14253525.64	39°15'5.5738"N	80°59'28.0223"W	13012.94	158.564	0.13	-0.13	0.03	
18443.00	90.400	160.920	6301.28	13095.40	-12202.62	4786.64	1642962.28	14253435.88	39°15'4.6863"N	80°59'27.6282"W	13107.85	158.582	0.11	0.09	-0.06	
18537.00	90.310	160.940	6300.70	13189.39	-12291.46	4817.35	1642992.98	14253347.07	39°15'3.8082"N	80°59'27.2379"W	13201.77	158.598	0.10	-0.10	0.02	
18632.00	90.310	160.860	6300.18	13284.39	-12381.23	4848.43	1643024.05	14253257.34	39°15'2.9209"N	80°59'26.8429"W	13296.70	158.615	0.08	0.00	-0.08	
18726.00	90.340	160.850	6299.65	13378.39	-12470.03	4879.26	1643054.87	14253168.58	39°15'2.0432"N	80°59'26.4512"W	13390.62	158.631	0.03	0.03	-0.01	
18820.00	90.340	160.900	6299.09	13472.39	-12558.84	4910.06	1643085.65	14253079.80	39°15'1.1654"N	80°59'26.0598"W	13484.55	158.646	0.05	0.00	0.05	
18915.00	90.370	160.900	6298.51	13567.38	-12648.61	4941.14	1643116.73	14252990.07	39°15'0.2781"N	80°59'25.6648"W	13579.47	158.662	0.03	0.03	0.00	
19009.00	90.370	160.780	6297.90	13661.38	-12737.40	4971.99	1643147.56	14252901.31	39°14'59.4004"N	80°59'25.2728"W	13673.41	158.677	0.13	0.00	-0.13	

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Vanderhoff Unit 1H AWP Proj: 23617'
Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION					
Operator	ANTERO RESOURCES CORPORATION			Well	Vanderhoff Unit 1H
Field	Ritchie			API	47-085-10517-0000
Facility	Olympus Pad			Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C				

WELLPATH DATA (260 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
19103.00	90.000	160.780	6297.59	13755.38	-12826.16	5002.94	1643178.50	14252812.59	39°14'58.5231"N	80°59'24.8795"W	13767.34	158.691	0.39	-0.39	0.00	
19198.00	90.090	160.480	6297.52	13850.38	-12915.78	5034.45	1643209.99	14252723.00	39°14'57.6373"N	80°59'24.4792"W	13862.29	158.705	0.33	0.09	-0.32	
19292.00	90.060	160.940	6297.40	13944.37	-13004.50	5065.50	1643241.03	14252634.32	39°14'56.7603"N	80°59'24.0846"W	13956.23	158.718	0.49	-0.03	0.49	
19387.00	90.000	160.700	6297.35	14039.37	-13094.23	5096.71	1643272.23	14252544.62	39°14'55.8735"N	80°59'23.6880"W	14051.17	158.732	0.26	-0.06	-0.25	
19482.00	90.030	160.860	6297.32	14134.37	-13183.93	5127.98	1643303.49	14252454.96	39°14'54.9868"N	80°59'23.2906"W	14146.11	158.746	0.17	0.03	0.17	
19576.00	90.060	160.640	6297.25	14228.37	-13272.68	5158.97	1643334.47	14252366.25	39°14'54.1096"N	80°59'22.8968"W	14240.05	158.759	0.24	0.03	-0.23	
19670.00	90.030	160.790	6297.17	14322.37	-13361.40	5190.02	1643365.50	14252277.56	39°14'53.2327"N	80°59'22.5023"W	14333.99	158.772	0.16	-0.03	0.16	
19764.00	90.060	160.640	6297.10	14416.37	-13450.13	5221.06	1643396.54	14252188.87	39°14'52.3557"N	80°59'22.1078"W	14427.94	158.785	0.16	0.03	-0.16	
19858.00	90.030	160.660	6297.03	14510.38	-13538.82	5252.21	1643427.67	14252100.21	39°14'51.4790"N	80°59'21.7120"W	14521.89	158.797	0.04	-0.03	0.02	
19953.00	90.060	160.740	6296.95	14605.36	-13628.48	5283.61	1643459.06	14252010.59	39°14'50.5928"N	80°59'21.3131"W	14616.84	158.809	0.09	0.03	0.08	
20047.00	90.090	160.940	6296.83	14699.36	-13717.27	5314.46	1643489.89	14251921.83	39°14'49.7152"N	80°59'20.9211"W	14710.78	158.822	0.22	0.03	0.21	
20141.00	90.150	161.160	6296.63	14793.36	-13806.18	5344.99	1643520.41	14251832.96	39°14'48.8364"N	80°59'20.5332"W	14804.71	158.836	0.24	0.06	0.23	
20236.00	90.000	160.520	6296.51	14888.36	-13895.91	5376.17	1643551.57	14251743.26	39°14'47.9494"N	80°59'20.1370"W	14899.65	158.849	0.69	-0.16	-0.67	
20330.00	89.940	159.790	6296.56	14982.35	-13984.33	5408.08	1643583.47	14251654.88	39°14'47.0755"N	80°59'19.7315"W	14993.63	158.857	0.78	-0.06	-0.78	
20424.00	91.260	163.530	6295.57	15076.32	-14073.53	5437.65	1643613.03	14251565.71	39°14'46.1938"N	80°59'19.3558"W	15087.49	158.875	4.22	1.40	3.98	
20519.00	90.490	160.690	6294.12	15171.28	-14163.92	5466.82	1643642.20	14251475.36	39°14'45.3004"N	80°59'18.9851"W	15182.32	158.895	3.10	-0.81	-2.99	
20613.00	90.400	160.740	6293.39	15265.28	-14252.64	5497.87	1643673.23	14251386.68	39°14'44.4235"N	80°59'18.5907"W	15276.27	158.906	0.11	-0.10	0.05	
20707.00	90.400	160.780	6292.74	15359.27	-14341.39	5528.84	1643704.19	14251297.96	39°14'43.5463"N	80°59'18.1971"W	15370.22	158.918	0.04	0.00	0.04	
20802.00	90.430	160.670	6292.05	15454.27	-14431.06	5560.20	1643735.54	14251208.33	39°14'42.6599"N	80°59'17.7987"W	15465.17	158.929	0.12	0.03	-0.12	
20897.00	90.310	160.860	6291.43	15549.26	-14520.76	5591.50	1643766.82	14251118.67	39°14'41.7733"N	80°59'17.4010"W	15560.12	158.940	0.24	-0.13	0.20	
20991.00	90.180	160.780	6291.03	15643.26	-14609.54	5622.38	1643797.69	14251029.92	39°14'40.8958"N	80°59'17.0086"W	15654.07	158.951	0.16	-0.14	-0.09	
21085.00	90.120	160.610	6290.79	15737.26	-14698.25	5653.46	1643828.75	14250941.24	39°14'40.0189"N	80°59'16.6138"W	15748.02	158.962	0.19	-0.06	-0.18	
21180.00	90.250	160.680	6290.48	15832.26	-14787.88	5684.94	1643860.23	14250851.65	39°14'39.1330"N	80°59'16.2138"W	15842.98	158.972	0.16	0.14	0.07	
21274.00	90.030	160.470	6290.25	15926.25	-14876.53	5716.20	1643891.47	14250763.04	39°14'38.2568"N	80°59'15.8166"W	15936.94	158.981	0.32	-0.23	-0.22	
21369.00	90.150	160.510	6290.10	16021.25	-14966.08	5747.93	1643923.19	14250673.53	39°14'37.3717"N	80°59'15.4135"W	16031.91	158.990	0.13	0.13	0.04	
21463.00	90.120	160.630	6289.88	16115.24	-15054.72	5779.20	1643954.45	14250584.92	39°14'36.4955"N	80°59'15.0162"W	16125.88	158.999	0.13	-0.03	0.13	
21558.00	89.880	160.720	6289.88	16210.24	-15144.37	5810.64	1643985.87	14250495.31	39°14'35.6094"N	80°59'14.6168"W	16220.84	159.009	0.27	-0.25	0.09	
21652.00	90.000	160.770	6289.98	16304.24	-15233.11	5841.64	1644016.86	14250406.60	39°14'34.7322"N	80°59'14.2229"W	16314.79	159.019	0.14	0.13	0.05	
21747.00	89.880	160.720	6290.08	16399.24	-15322.80	5872.96	1644048.17	14250316.95	39°14'33.8458"N	80°59'13.8249"W	16409.75	159.029	0.14	-0.13	-0.05	
21841.00	89.750	160.790	6290.38	16493.24	-15411.55	5903.95	1644079.14	14250228.24	39°14'32.9688"N	80°59'13.4313"W	16503.71	159.039	0.16	-0.14	0.07	



Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'

Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (260 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
21936.00	89.780	160.630	6290.77	16588.23	-15501.21	5935.33	1644110.51	14250138.61	39°14'32.0823"N	80°59'13.0326"W	16598.67	159.048	0.17	0.03	-0.17	
22030.00	89.780	160.640	6291.13	16682.23	-15589.89	5966.50	1644141.67	14250049.96	39°14'31.2057"N	80°59'12.6366"W	16692.63	159.057	0.01	0.00	0.01	
22125.00	89.820	160.680	6291.46	16777.23	-15679.53	5997.96	1644173.12	14249960.36	39°14'30.3197"N	80°59'12.2369"W	16787.59	159.066	0.06	0.04	0.04	
22219.00	89.750	160.550	6291.82	16871.22	-15768.20	6029.16	1644204.31	14249871.73	39°14'29.4433"N	80°59'11.8405"W	16881.56	159.075	0.16	-0.07	-0.14	
22313.00	89.820	160.700	6292.17	16965.22	-15856.88	6060.34	1644235.48	14249783.09	39°14'28.5668"N	80°59'11.4443"W	16975.52	159.084	0.18	0.07	0.16	
22407.00	89.880	160.990	6292.41	17059.22	-15945.67	6091.19	1644266.31	14249694.33	39°14'27.6891"N	80°59'11.0525"W	17069.48	159.093	0.32	0.06	0.31	
22502.00	89.910	162.200	6292.59	17154.21	-16035.81	6121.18	1644296.29	14249604.22	39°14'26.7981"N	80°59'10.6714"W	17164.39	159.107	1.27	0.03	1.27	
22596.00	89.720	160.930	6292.89	17248.21	-16124.99	6150.91	1644326.00	14249515.09	39°14'25.9167"N	80°59'10.2938"W	17258.30	159.121	1.37	-0.20	-1.35	
22691.00	89.780	161.790	6293.31	17343.20	-16215.00	6181.27	1644356.35	14249425.11	39°14'25.0270"N	80°59'9.9081"W	17353.22	159.133	0.91	0.06	0.91	
22785.00	89.750	161.650	6293.69	17437.20	-16304.26	6210.75	1644385.83	14249335.89	39°14'24.1447"N	80°59'9.5335"W	17447.13	159.147	0.15	-0.03	-0.15	
22879.00	89.750	161.660	6294.10	17531.19	-16393.48	6240.34	1644415.40	14249246.70	39°14'23.2628"N	80°59'9.1577"W	17541.04	159.160	0.01	0.00	0.01	
22974.00	90.030	161.800	6294.28	17626.18	-16483.69	6270.12	1644445.17	14249156.53	39°14'22.3712"N	80°59'8.7794"W	17635.94	159.174	0.33	0.29	0.15	
23069.00	90.060	161.690	6294.21	17721.18	-16573.91	6299.88	1644474.92	14249066.34	39°14'21.4794"N	80°59'8.4013"W	17730.85	159.188	0.12	0.03	-0.12	
23164.00	90.060	161.820	6294.11	17816.17	-16664.13	6329.62	1644504.65	14248976.16	39°14'20.5876"N	80°59'8.0235"W	17825.75	159.201	0.14	0.00	0.14	
23258.00	90.250	161.580	6293.86	17910.16	-16753.38	6359.14	1644534.15	14248886.95	39°14'19.7055"N	80°59'7.6486"W	17919.66	159.215	0.33	0.20	-0.26	
23352.00	90.280	161.630	6293.42	18004.16	-16842.57	6388.80	1644563.80	14248797.79	39°14'18.8238"N	80°59'7.2717"W	18013.58	159.227	0.06	0.03	0.05	
23447.00	90.280	161.580	6292.96	18099.15	-16932.72	6418.78	1644593.77	14248707.68	39°14'17.9328"N	80°59'6.8909"W	18108.50	159.240	0.05	0.00	-0.05	
23541.00	90.250	161.610	6292.52	18193.15	-17021.91	6448.46	1644623.43	14248618.52	39°14'17.0512"N	80°59'6.5139"W	18202.42	159.252	0.05	-0.03	0.03	
23591.00	90.250	161.780	6292.30	18243.15	-17069.38	6464.16	1644639.13	14248571.07	39°14'16.5820"N	80°59'6.3144"W	18252.37	159.258	0.34	0.00	0.34	
23617.00†	90.250	161.780	6292.19	18269.14	-17094.07	6472.29	1644647.26	14248546.39	39°14'16.3379"N	80°59'6.2112"W	18278.35	159.262	0.00	0.00	0.00	Projected MD at TD: 23617'

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'

Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

HOLE & CASING SECTIONS - Ref Wellbore: Vanderhoff Unit 1H AWB Ref Wellpath: Vanderhoff Unit 1H AWP Proj: 23617'

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	25.50	125.50	100.00	25.50	125.50	0.00	0.00	0.07	-0.59
17.5in Open Hole	125.50	376.00	250.50	125.50	375.99	0.07	-0.59	0.88	-2.90
13.375in Casing Surface	25.50	356.10	330.60	25.50	356.09	0.00	0.00	0.79	-2.70
12.375in Open Hole	376.00	3087.00	2711.00	375.99	3084.92	0.88	-2.90	-51.02	-8.92
9.625in Casing Intermediate	25.50	3057.00	3031.50	25.50	3054.92	0.00	0.00	-51.11	-9.04
8.75in Open Hole	3087.00	6118.00	3031.00	3084.92	5921.86	-51.02	-8.92	-694.35	757.10
8.5in Open Hole	6118.00	23617.00	17499.00	5921.86	6292.19	-694.35	757.10	-17094.07	6472.29
5.5in Casing Production	25.50	23597.00	23571.50	25.50	6292.28	0.00	0.00	-17075.08	6466.04

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Vanderhoff Unit 1H POE Rev-3	6241.00	-1036.19	956.49	1639133.68	14264597.82	39°16'55.0536"N	81°00'16.3224"W	point
Vanderhoff Unit 1H BHL Rev-3	6281.00	-17110.44	6467.38	1644642.35	14248530.03	39°14'16.1762"N	80°59'6.2736"W	point
Vanderhoff Unit 1H LP Rev-3	6281.00	-1259.43	1033.03	1639210.19	14264374.67	39°16'52.8471"N	81°00'15.3490"W	point
Vanderhoff Unit 1H 50' L/R Hard Line	6500.00	-9073.31	3711.94	1641888.02	14256563.92	39°15'35.6165"N	80°59'41.2870"W	rectangle
2D Rectangle 16992.7 x 100.								

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Actual Wellpath Report

Vanderhoff Unit 1H AWP Proj: 23617'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

WELLPATH COMPOSITION - Ref Wellbore: Vanderhoff Unit 1H AWB Ref Wellpath: Vanderhoff Unit 1H AWP Proj: 23617'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	378.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-378')	Vanderhoff Unit 1H AWB	5/27/2024
378.00	3015.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (378')(503'-3015')	Vanderhoff Unit 1H AWB	5/27/2024
3015.00	6041.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3015')(3108'-6041')	Vanderhoff Unit 1H AWB	6/13/2024
6041.00	23617.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (6041')(6078'-23591')	Vanderhoff Unit 1H AWB	6/13/2024

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Vanderhoff Unit 1H AWP Proj: 23617'
Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vanderhoff Unit 1H
Field	Ritchie	API	47-085-10517-0000
Facility	Olympus Pad	Wellbore	Vanderhoff Unit 1H AWB
Slot	Slot C		

COMMENTS

Wellpath general comments

API: 47-085-10517-0000

BH Job #: 112220022

Rig: H&P 317

Duration: 6/19/2024-6/23/2024

Gyrodata MS Gyro <17-1/2"> (100'-378')

APS EM <12-3/8"> (378')(503'-3015')

APS EM <8-3/4"> (3015')(3108'-6041')

BH Lucida <8-1/2"> (6041')(6078'-23591')

Sycamore: 6234' MD

Middlesex: 6372' MD

Burkett: 6583' MD

Tully: 6640' MD

Marcellus POE: 6662' MD

Projected MD at TD: 23617'