



ANTERO RESOURCES CORPORATION

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

Slot: Slot B
Well: Otterslide Unit 1H
Wellbore: Otterslide Unit 1H PWB

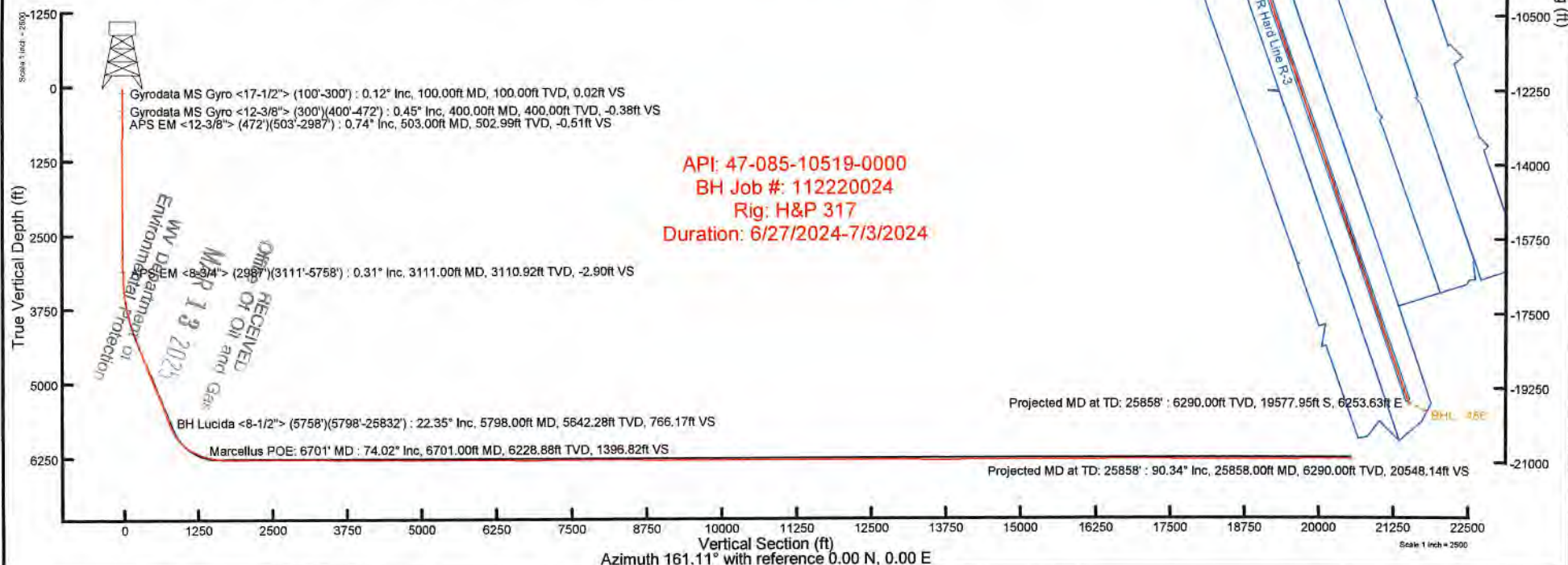


Plot reference wellpath is Otterslide Unit 1H PWB Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1050.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot B): -1025 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: esdaryan on 2024-07-15; Database: WA MPL, EASTERNUS, Data

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 B	8.97	-12.01	1638165.560	14265642.560	39°17'5.3830"N
Comment: Otterslide Unit 1H					
H&P 317 (RKB) to Ground level (At Slot: Slot B)	25.5ft				
Mean Sea Level to Ground level (At Slot: Slot B)	-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)	DLS (°/100ft)	VS (ft)
Tie On	2987.00	0.260	199.650	2986.92	-1.84	-16.03	0.42	-3.45
Proj. to Bottom	3060.00	0.260	199.650	3059.92	-2.15	-16.14	0.00	-3.19
KOP 1	3140.00	0.260	199.650	3139.92	-2.49	-16.26	0.00	-2.91
End of 3D Arc	4334.18	24.134	183.816	4298.73	-252.26	-33.67	2.00	227.77
Curve KOP	5935.45	24.134	183.816	5780.04	-905.51	-77.25	0.00	831.74
POE	6652.13	72.014	161.109	6228.00	-1406.61	30.31	7.00	1340.66
Landing PL	6909.08	90.000	161.109	6268.00	-1645.74	112.14	7.00	1593.41
BHL	25832.96	90.000	161.109	6268.00	-19550.30	6239.12	0.00	20517.29

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Otterslide Unit 1H	Otterslide Unit 1H AWP	Otterslide Unit 1H AWP Proj: 25858'
Slot B	Otterslide Unit 1H	Otterslide Unit 1H PWB	Otterslide Unit 1H PWB Rev-B.0





Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'

Page 1 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

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	7/15/2024 at 8:22:55 PM
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	8.97	-12.01	1638165.56	14265642.56	39°17'5.3830"N	81°00'28.6402"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 B)	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	161.11°

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Otterslide Unit 1H AWP Proj: 25858'

Page 2 of 14



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Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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	239.020	0.00	0.00	0.00	0.00	1638165.56	14265642.56	39°17'5.3830"N	81°00'28.6402"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	239.020	25.50	0.00	0.00	0.00	1638165.56	14265642.56	39°17'5.3830"N	81°00'28.6402"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.120	239.020	100.00	0.02	-0.04	-0.07	1638165.49	14265642.52	39°17'5.3826"N	81°00'28.6411"W	0.08	239.020	0.16	0.16	0.00	Gyrodata MS Gyro <17-1/2"> (100'-300')
200.00	0.240	292.020	200.00	-0.10	-0.02	-0.35	1638165.21	14265642.54	39°17'5.3828"N	81°00'28.6447"W	0.35	267.464	0.19	0.12	53.00	
300.00	0.370	269.370	300.00	-0.34	0.06	-0.87	1638164.69	14265642.62	39°17'5.3836"N	81°00'28.6513"W	0.87	273.918	0.17	0.13	-22.65	
400.00	0.450	242.770	400.00	-0.38	-0.12	-1.54	1638164.02	14265642.44	39°17'5.3818"N	81°00'28.6598"W	1.54	265.404	0.20	0.08	-26.60	Gyrodata MS Gyro <12-3/8"> (300')(400'-472')
472.00	0.750	260.060	471.99	-0.41	-0.33	-2.26	1638163.31	14265642.23	39°17'5.3797"N	81°00'28.6689"W	2.28	261.564	0.48	0.42	24.01	
503.00	0.740	269.750	502.99	-0.51	-0.37	-2.66	1638162.91	14265642.19	39°17'5.3793"N	81°00'28.6740"W	2.68	262.059	0.41	-0.03	31.26	APS EM <12-3/8"> (472')(503'-2987')
592.00	0.690	285.010	591.98	-0.99	-0.23	-3.75	1638161.81	14265642.33	39°17'5.3807"N	81°00'28.6879"W	3.76	266.425	0.22	-0.06	17.15	
680.00	0.880	280.810	679.97	-1.62	0.03	-4.92	1638160.64	14265642.59	39°17'5.3833"N	81°00'28.7029"W	4.92	270.347	0.23	0.22	-4.77	
768.00	0.890	275.130	767.96	-2.24	0.22	-6.27	1638159.29	14265642.78	39°17'5.3851"N	81°00'28.7200"W	6.27	271.989	0.10	0.01	-6.45	
857.00	0.800	282.540	856.95	-2.84	0.41	-7.56	1638158.00	14265642.97	39°17'5.3871"N	81°00'28.7364"W	7.57	273.136	0.16	-0.10	8.33	
946.00	0.560	283.720	945.95	-3.40	0.65	-8.59	1638156.97	14265643.21	39°17'5.3894"N	81°00'28.7495"W	8.62	274.343	0.27	-0.27	1.33	
1036.00	0.500	295.640	1035.94	-3.91	0.93	-9.37	1638156.19	14265643.49	39°17'5.3921"N	81°00'28.7595"W	9.42	275.646	0.14	-0.07	13.24	
1130.00	0.540	285.790	1129.94	-4.45	1.22	-10.17	1638155.39	14265643.78	39°17'5.3951"N	81°00'28.7696"W	10.24	276.867	0.10	0.04	-10.48	
1224.00	0.140	279.830	1223.94	-4.76	1.36	-10.71	1638154.86	14265643.92	39°17'5.3965"N	81°00'28.7764"W	10.80	277.263	0.43	-0.43	-6.34	
1319.00	0.240	242.040	1318.94	-4.78	1.29	-11.00	1638154.57	14265643.85	39°17'5.3957"N	81°00'28.7801"W	11.07	276.697	0.16	0.11	-39.78	
1414.00	0.400	241.680	1413.94	-4.70	1.04	-11.47	1638154.10	14265643.60	39°17'5.3933"N	81°00'28.7861"W	11.51	275.186	0.17	0.17	-0.40	
1508.00	0.130	63.700	1507.94	-4.66	0.93	-11.66	1638153.91	14265643.49	39°17'5.3922"N	81°00'28.7885"W	11.70	274.571	0.56	-0.29	-189.32	
1603.00	0.380	238.690	1602.93	-4.60	0.82	-11.83	1638153.73	14265643.38	39°17'5.3911"N	81°00'28.7907"W	11.86	273.946	0.54	0.26	184.20	
1697.00	0.300	231.740	1696.93	-4.45	0.50	-12.29	1638153.27	14265643.06	39°17'5.3879"N	81°00'28.7966"W	12.30	272.338	0.10	-0.09	-7.39	
1791.00	0.410	251.580	1790.93	-4.38	0.24	-12.80	1638152.76	14265642.80	39°17'5.3854"N	81°00'28.8031"W	12.81	271.088	0.17	0.12	21.11	
1886.00	0.330	238.290	1885.93	-4.32	-0.01	-13.36	1638152.21	14265642.55	39°17'5.3829"N	81°00'28.8101"W	13.36	269.966	0.12	-0.08	-13.99	
1980.00	0.170	221.830	1979.93	-4.19	-0.25	-13.68	1638151.88	14265642.31	39°17'5.3805"N	81°00'28.8143"W	13.68	268.936	0.18	-0.17	-17.51	
2075.00	0.300	180.780	2074.93	-3.89	-0.61	-13.78	1638151.79	14265641.95	39°17'5.3770"N	81°00'28.8155"W	13.79	267.474	0.22	0.14	-43.21	
2169.00	0.220	232.920	2168.93	-3.60	-0.96	-13.93	1638151.64	14265641.60	39°17'5.3735"N	81°00'28.8174"W	13.96	266.045	0.25	-0.09	55.47	
2264.00	0.250	229.390	2263.93	-3.46	-1.21	-14.23	1638151.34	14265641.35	39°17'5.3710"N	81°00'28.8212"W	14.28	265.149	0.04	0.03	-3.72	
2359.00	0.070	166.130	2358.93	-3.33	-1.40	-14.37	1638151.19	14265641.16	39°17'5.3692"N	81°00'28.8230"W	14.44	264.441	0.24	-0.19	-66.59	
2453.00	0.000	352.200	2452.93	-3.27	-1.45	-14.36	1638151.21	14265641.11	39°17'5.3686"N	81°00'28.8229"W	14.43	264.216	0.07	-0.07	0.00	
2548.00	0.120	254.060	2547.93	-3.28	-1.48	-14.46	1638151.11	14265641.08	39°17'5.3683"N	81°00'28.8241"W	14.53	264.146	0.13	0.13	0.00	

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'
Page 3 of 14



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Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
2642.00	0.100	282.340	2641.93	-3.33	-1.49	-14.63	1638150.94	14265641.07	39°17'5.3682"N	81°00'28.8263"W	14.71	264.179	0.06	-0.02	30.09	
2737.00	0.130	267.920	2736.93	-3.40	-1.48	-14.82	1638150.75	14265641.08	39°17'5.3684"N	81°00'28.8287"W	14.89	264.305	0.04	0.03	-15.18	
2831.00	0.510	254.780	2830.92	-3.46	-1.59	-15.33	1638150.24	14265640.97	39°17'5.3673"N	81°00'28.8352"W	15.41	264.073	0.41	0.40	-13.98	
2926.00	0.180	268.260	2925.92	-3.53	-1.71	-15.89	1638149.68	14265640.85	39°17'5.3661"N	81°00'28.8423"W	15.98	263.867	0.36	-0.35	14.19	
2987.00	0.260	199.650	2986.92	-3.45	-1.84	-16.03	1638149.54	14265640.72	39°17'5.3648"N	81°00'28.8441"W	16.13	263.451	0.42	0.13	-112.48	
3111.00	0.310	151.630	3110.92	-2.90	-2.40	-15.96	1638149.60	14265640.16	39°17'5.3593"N	81°00'28.8433"W	16.14	261.449	0.19	0.04	-38.73	APS EM <8-3/4"> (2987')(3111'-5758')
3205.00	0.880	168.550	3204.91	-1.93	-3.33	-15.70	1638149.87	14265639.23	39°17'5.3501"N	81°00'28.8399"W	16.05	258.019	0.63	0.61	18.00	
3299.00	3.850	192.310	3298.83	1.49	-7.12	-16.23	1638149.34	14265635.44	39°17'5.3126"N	81°00'28.8466"W	17.72	246.303	3.26	3.16	25.28	
3394.00	6.870	196.370	3393.40	8.85	-15.69	-18.51	1638147.06	14265626.87	39°17'5.2279"N	81°00'28.8756"W	24.27	229.710	3.20	3.18	4.27	
3489.00	8.840	197.730	3487.50	19.35	-28.10	-22.34	1638143.23	14265614.47	39°17'5.1053"N	81°00'28.9243"W	35.89	218.482	2.08	2.07	1.43	
3583.00	10.430	193.720	3580.18	32.32	-43.24	-26.55	1638139.02	14265599.33	39°17'4.9555"N	81°00'28.9779"W	50.75	211.551	1.84	1.69	-4.27	
3678.00	11.670	188.620	3673.41	48.09	-61.10	-30.03	1638135.54	14265581.49	39°17'4.7791"N	81°00'29.0221"W	68.08	206.176	1.66	1.31	-5.37	
3772.00	13.400	185.960	3765.17	66.40	-81.33	-32.59	1638132.98	14265561.26	39°17'4.5791"N	81°00'29.0546"W	87.62	201.835	1.94	1.84	-2.83	
3867.00	15.470	185.320	3857.17	87.95	-104.90	-34.91	1638130.67	14265537.70	39°17'4.3462"N	81°00'29.0841"W	110.56	198.406	2.19	2.18	-0.67	
3961.00	17.290	184.200	3947.35	112.23	-131.32	-37.09	1638128.48	14265511.30	39°17'4.0851"N	81°00'29.1118"W	136.45	195.773	1.97	1.94	-1.19	
4056.00	19.630	183.440	4037.45	139.99	-161.33	-39.08	1638126.49	14265481.30	39°17'3.7884"N	81°00'29.1371"W	166.00	193.619	2.48	2.46	-0.80	
4150.00	20.670	182.500	4125.70	170.04	-193.66	-40.76	1638124.82	14265448.97	39°17'3.4688"N	81°00'29.1583"W	197.91	191.884	1.16	1.11	-1.00	
4245.00	20.820	178.110	4214.55	201.80	-227.29	-40.93	1638124.65	14265415.36	39°17'3.1365"N	81°00'29.1605"W	230.95	190.208	1.64	0.16	-4.62	
4339.00	21.620	178.480	4302.17	234.30	-261.30	-39.92	1638125.66	14265381.37	39°17'2.8003"N	81°00'29.1476"W	264.33	188.686	0.86	0.85	0.39	
4434.00	22.950	182.340	4390.08	268.27	-297.30	-40.21	1638125.36	14265345.37	39°17'2.4445"N	81°00'29.1513"W	300.01	187.703	2.08	1.40	4.06	
4528.00	23.350	189.340	4476.53	301.78	-334.00	-43.98	1638121.59	14265308.69	39°17'2.0817"N	81°00'29.1992"W	336.89	187.502	2.96	0.43	7.45	
4623.00	24.580	186.940	4563.34	336.15	-372.20	-49.43	1638116.15	14265270.51	39°17'1.7043"N	81°00'29.2684"W	375.46	187.565	1.65	1.29	-2.53	
4717.00	24.650	187.620	4648.80	371.29	-411.03	-54.39	1638111.19	14265231.69	39°17'1.3204"N	81°00'29.3315"W	414.62	187.538	0.31	0.07	0.72	
4811.00	22.110	183.190	4735.08	405.23	-448.13	-57.97	1638107.61	14265194.61	39°17'0.9537"N	81°00'29.3770"W	451.87	187.371	3.28	-2.70	-4.71	
4906.00	21.610	181.580	4823.25	438.19	-483.47	-59.45	1638106.13	14265159.28	39°17'0.6044"N	81°00'29.3958"W	487.11	187.010	0.82	-0.53	-1.69	
5000.00	23.520	182.680	4910.05	471.85	-519.52	-60.81	1638104.78	14265123.25	39°17'0.2482"N	81°00'29.4130"W	523.06	186.676	2.08	2.03	1.17	
5097.00	24.670	184.740	4998.60	508.40	-559.02	-63.38	1638102.20	14265083.76	39°16'59.8577"N	81°00'29.4457"W	562.61	186.469	1.47	1.19	2.12	
5191.00	24.740	186.830	5083.99	544.09	-598.11	-67.34	1638098.24	14265044.69	39°16'59.4714"N	81°00'29.4960"W	601.89	186.424	0.93	0.07	2.22	
5285.00	24.880	182.590	5169.32	580.21	-637.39	-70.58	1638095.01	14265005.42	39°16'59.0831"N	81°00'29.5371"W	641.29	186.318	1.90	0.15	-4.51	
5380.00	24.080	182.940	5255.78	616.80	-676.71	-72.47	1638093.12	14264966.12	39°16'58.6945"N	81°00'29.5612"W	680.58	186.113	0.86	-0.84	0.37	

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Page 4 of 14



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Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

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5474.00	22.840	181.150	5342.01	651.74	-714.11	-73.82	1638091.77	14264928.74	39°16'58.3249"N	81°00'29.5783"W	717.91	185.902	1.52	-1.32	-1.90	
5569.00	22.100	180.630	5429.80	685.91	-750.41	-74.39	1638091.20	14264892.45	39°16'57.9661"N	81°00'29.5854"W	754.09	185.661	0.81	-0.78	-0.55	
5663.00	21.670	180.960	5517.03	718.90	-785.44	-74.88	1638090.71	14264857.43	39°16'57.6198"N	81°00'29.5916"W	789.00	185.445	0.48	-0.46	0.35	
5758.00	21.940	180.880	5605.23	752.10	-820.73	-75.44	1638090.15	14264822.16	39°16'57.2711"N	81°00'29.5987"W	824.19	185.252	0.29	0.28	-0.08	
5798.00	22.350	183.400	5642.28	766.17	-835.79	-76.01	1638089.58	14264807.11	39°16'57.1222"N	81°00'29.6059"W	839.24	185.196	2.59	1.03	6.30	BH Lucida <8-1/2"> (5758')(5798'-25832')
5892.00	25.150	182.520	5728.31	801.31	-873.59	-77.95	1638087.65	14264769.32	39°16'56.7485"N	81°00'29.6305"W	877.07	185.099	3.00	2.98	-0.94	
5986.00	30.140	176.050	5811.57	842.74	-917.13	-77.20	1638088.39	14264725.80	39°16'56.3183"N	81°00'29.6210"W	920.37	184.811	6.19	5.31	-6.88	
6081.00	35.630	169.050	5891.39	893.18	-968.08	-70.30	1638095.28	14264674.87	39°16'55.8147"N	81°00'29.5332"W	970.63	184.154	6.93	5.67	-7.37	
6175.00	41.200	167.940	5965.07	951.02	-1025.22	-58.64	1638106.95	14264617.75	39°16'55.2499"N	81°00'29.3848"W	1026.90	183.273	6.08	6.03	-1.18	
6229.00†	45.640	168.456	6004.28	987.84	-1061.54	-51.06	1638114.53	14264581.44	39°16'54.8909"N	81°00'29.2883"W	1062.77	182.754	8.25	8.22	0.96	Sycamore: 6229' MD
6269.00	48.930	168.790	6031.41	1016.97	-1090.35	-45.26	1638120.32	14264552.65	39°16'54.6062"N	81°00'29.2146"W	1091.29	182.377	8.25	8.23	0.84	
6364.00	55.630	165.520	6089.51	1091.65	-1163.54	-28.47	1638137.10	14264479.49	39°16'53.8829"N	81°00'29.0010"W	1163.88	181.402	7.56	7.05	-3.44	
6373.00†	56.278	165.306	6094.55	1099.09	-1170.75	-26.60	1638138.98	14264472.28	39°16'53.8116"N	81°00'28.9772"W	1171.06	181.301	7.47	7.20	-2.37	Middlesex: 6373' MD
6459.00	62.490	163.410	6138.33	1172.94	-1241.97	-6.61	1638158.95	14264401.09	39°16'53.1076"N	81°00'28.7230"W	1241.99	180.305	7.47	7.22	-2.21	
6553.00	66.370	162.380	6178.89	1257.68	-1323.00	18.33	1638183.89	14264320.10	39°16'52.3069"N	81°00'28.4056"W	1323.12	179.206	4.24	4.13	-1.10	
6609.00†	69.325	162.483	6200.00	1309.52	-1372.44	33.99	1638199.53	14264270.67	39°16'51.8182"N	81°00'28.2065"W	1372.86	178.581	5.28	5.28	0.18	Burkett: 6609' MD
6647.00	71.330	162.550	6212.80	1345.29	-1406.56	44.74	1638210.28	14264236.56	39°16'51.4809"N	81°00'28.0698"W	1407.28	178.178	5.28	5.28	0.18	
6676.00†	72.774	162.450	6221.73	1372.87	-1432.88	53.03	1638218.57	14264210.26	39°16'51.2209"N	81°00'27.9642"W	1433.86	177.880	4.99	4.98	-0.35	Tully: 6676' MD
6701.00†	74.018	162.364	6228.88	1396.82	-1455.71	60.27	1638225.81	14264187.43	39°16'50.9952"N	81°00'27.8721"W	1456.96	177.629	4.99	4.98	-0.34	Marcellus POE: 6701' MD
6741.00	76.010	162.230	6239.22	1435.45	-1492.52	72.02	1638237.55	14264150.64	39°16'50.6314"N	81°00'27.7227"W	1494.26	177.237	4.99	4.98	-0.34	
6836.00	82.960	162.380	6256.55	1528.78	-1581.45	100.39	1638265.91	14264061.74	39°16'49.7524"N	81°00'27.3618"W	1584.64	176.368	7.32	7.32	0.16	
6931.00	86.240	162.420	6265.48	1623.32	-1671.59	128.99	1638294.50	14263971.64	39°16'48.8615"N	81°00'26.9981"W	1676.56	175.588	3.45	3.45	0.04	
7025.00	89.880	162.030	6268.67	1717.23	-1761.04	157.66	1638323.16	14263882.23	39°16'47.9775"N	81°00'26.6333"W	1768.08	174.884	3.89	3.87	-0.41	
7119.00	89.380	162.240	6269.27	1811.22	-1850.50	186.50	1638351.98	14263792.80	39°16'47.0933"N	81°00'26.2665"W	1859.88	174.245	0.58	-0.53	0.22	
7214.00	89.380	161.250	6270.30	1906.20	-1940.71	216.26	1638381.73	14263702.63	39°16'46.2017"N	81°00'25.8880"W	1952.73	173.642	1.04	0.00	-1.04	
7308.00	89.350	159.650	6271.34	2000.19	-2029.29	247.71	1638413.17	14263614.09	39°16'45.3263"N	81°00'25.4880"W	2044.35	173.041	1.70	-0.03	-1.70	
7403.00	89.320	161.020	6272.45	2095.17	-2118.74	279.67	1638445.12	14263524.67	39°16'44.4422"N	81°00'25.0814"W	2137.12	172.480	1.44	-0.03	1.44	
7497.00	89.420	161.150	6273.48	2189.17	-2207.66	310.14	1638475.58	14263435.79	39°16'43.5633"N	81°00'24.6938"W	2229.34	172.003	0.17	0.11	0.14	
7592.00	89.880	161.120	6274.06	2284.16	-2297.55	340.86	1638506.28	14263345.93	39°16'42.6749"N	81°00'24.3031"W	2322.70	171.561	0.49	0.48	-0.03	
7686.00	89.940	161.130	6274.21	2378.16	-2386.50	371.27	1638536.68	14263257.02	39°16'41.7958"N	81°00'23.9164"W	2415.20	171.157	0.06	0.06	0.01	

Office of Oil and Gas
MAR 13 2025
Environmental Protection
Department of



Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'
Page 5 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
7780.00	90.000	161.010	6274.26	2472.16	-2475.41	401.76	1638567.16	14263168.14	39°16'40.9170"N	81°00'23.5285"W	2507.80	170.781	0.14	0.06	-0.13	
7875.00	89.880	161.120	6274.36	2567.16	-2565.27	432.59	1638597.98	14263078.32	39°16'40.0289"N	81°00'23.1364"W	2601.49	170.428	0.17	-0.13	0.12	
7969.00	90.150	161.300	6274.33	2661.16	-2654.26	462.87	1638628.24	14262989.36	39°16'39.1493"N	81°00'22.7513"W	2694.32	170.108	0.35	0.29	0.19	
8064.00	89.970	161.140	6274.23	2756.16	-2744.20	493.45	1638658.81	14262899.46	39°16'38.2604"N	81°00'22.3623"W	2788.22	169.806	0.25	-0.19	-0.17	
8158.00	89.820	160.930	6274.40	2850.16	-2833.10	524.00	1638689.35	14262810.60	39°16'37.3818"N	81°00'21.9738"W	2881.15	169.521	0.27	-0.16	-0.22	
8252.00	90.030	161.210	6274.53	2944.16	-2922.02	554.50	1638719.83	14262721.72	39°16'36.5030"N	81°00'21.5859"W	2974.16	169.255	0.37	0.22	0.30	
8347.00	89.780	160.850	6274.68	3039.16	-3011.86	585.38	1638750.70	14262631.91	39°16'35.6150"N	81°00'21.1931"W	3068.22	169.001	0.46	-0.26	-0.38	
8441.00	89.690	160.850	6275.12	3133.16	-3100.66	616.21	1638781.53	14262543.15	39°16'34.7374"N	81°00'20.8010"W	3161.29	168.760	0.10	-0.10	0.00	
8535.00	89.970	162.130	6275.40	3227.16	-3189.79	646.06	1638811.36	14262454.05	39°16'33.8564"N	81°00'20.4214"W	3254.56	168.550	1.39	0.30	1.36	
8630.00	89.570	159.860	6275.78	3322.15	-3279.61	676.99	1638842.28	14262364.27	39°16'32.9687"N	81°00'20.0280"W	3348.75	168.337	2.43	-0.42	-2.39	
8725.00	89.850	161.360	6276.26	3417.14	-3369.21	708.53	1638873.80	14262274.70	39°16'32.0831"N	81°00'19.6269"W	3442.91	168.124	1.61	0.29	1.58	
8819.00	89.880	160.970	6276.48	3511.14	-3458.18	738.88	1638904.14	14262185.77	39°16'31.2038"N	81°00'19.2409"W	3536.23	167.940	0.42	0.03	-0.41	
8914.00	89.450	160.940	6277.04	3606.14	-3547.98	769.87	1638935.12	14262096.01	39°16'30.3163"N	81°00'18.8467"W	3630.54	167.757	0.45	-0.45	-0.03	
9008.00	89.480	161.040	6277.92	3700.13	-3636.85	800.49	1638965.73	14262007.18	39°16'29.4379"N	81°00'18.4573"W	3723.90	167.587	0.11	0.03	0.11	
9103.00	89.690	161.240	6278.60	3795.13	-3726.74	831.20	1638996.43	14261917.31	39°16'28.5494"N	81°00'18.0667"W	3818.31	167.427	0.31	0.22	0.21	
9197.00	89.540	160.870	6279.23	3889.13	-3815.65	861.72	1639026.93	14261828.44	39°16'27.6707"N	81°00'17.6786"W	3911.74	167.274	0.42	-0.16	-0.39	
9292.00	89.510	158.080	6280.02	3984.08	-3904.61	895.02	1639060.22	14261739.52	39°16'26.7915"N	81°00'17.2551"W	4005.87	167.090	2.94	-0.03	-2.94	
9386.00	89.690	161.250	6280.68	4078.03	-3992.74	927.68	1639092.87	14261651.43	39°16'25.9205"N	81°00'16.8397"W	4099.09	166.920	3.38	0.19	3.37	
9480.00	89.450	160.650	6281.38	4172.03	-4081.58	958.36	1639123.54	14261562.62	39°16'25.0423"N	81°00'16.4495"W	4192.59	166.786	0.69	-0.26	-0.64	
9575.00	89.600	160.980	6282.17	4267.03	-4171.31	989.58	1639154.74	14261472.93	39°16'24.1556"N	81°00'16.0525"W	4287.08	166.654	0.38	0.16	0.35	
9669.00	89.720	161.040	6282.73	4361.02	-4260.19	1020.17	1639185.32	14261384.08	39°16'23.2771"N	81°00'15.6635"W	4380.63	166.533	0.14	0.13	0.06	
9763.00	89.720	160.840	6283.19	4455.02	-4349.03	1050.86	1639216.00	14261295.28	39°16'22.3990"N	81°00'15.2732"W	4474.19	166.416	0.21	0.00	-0.21	
9858.00	89.660	160.910	6283.70	4550.02	-4438.79	1081.99	1639247.11	14261205.56	39°16'21.5119"N	81°00'14.8773"W	4568.76	166.301	0.10	-0.06	0.07	
9952.00	89.480	160.890	6284.41	4644.02	-4527.61	1112.75	1639277.86	14261116.77	39°16'20.6340"N	81°00'14.4862"W	4662.35	166.192	0.19	-0.19	-0.02	
10047.00	89.480	160.790	6285.27	4739.01	-4617.34	1143.92	1639309.02	14261027.07	39°16'19.7471"N	81°00'14.0897"W	4756.94	166.085	0.11	0.00	-0.11	
10141.00	89.450	161.210	6286.15	4833.01	-4706.22	1174.53	1639339.61	14260938.23	39°16'18.8687"N	81°00'13.7005"W	4850.57	165.987	0.45	-0.03	0.45	
10236.00	89.450	161.290	6287.06	4928.00	-4796.17	1205.06	1639370.14	14260848.31	39°16'17.9796"N	81°00'13.3122"W	4945.25	165.896	0.08	0.00	0.08	
10330.00	90.400	162.520	6287.18	5021.99	-4885.52	1234.26	1639399.32	14260759.00	39°16'17.0965"N	81°00'12.9410"W	5039.02	165.822	1.65	1.01	1.31	
10425.00	89.780	163.030	6287.03	5116.95	-4976.26	1262.39	1639427.44	14260668.30	39°16'16.1997"N	81°00'12.5832"W	5133.89	165.765	0.85	-0.65	0.54	
10519.00	89.940	161.080	6287.26	5210.93	-5065.68	1291.35	1639456.39	14260578.91	39°16'15.3159"N	81°00'12.2149"W	5227.69	165.699	2.08	0.17	-2.07	

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MAR 13 2025



Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'

Page 6 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
10613.00	89.910	161.000	6287.39	5304.93	-5154.58	1321.89	1639486.92	14260490.05	39°16'14.4372"N	81°00'11.8266"W	5321.38	165.617	0.09	-0.03	-0.09	
10708.00	89.880	160.630	6287.56	5399.93	-5244.31	1353.11	1639518.12	14260400.36	39°16'13.5504"N	81°00'11.4296"W	5416.06	165.532	0.39	-0.03	-0.39	
10802.00	90.090	160.760	6287.59	5493.93	-5333.02	1384.18	1639549.19	14260311.68	39°16'12.6736"N	81°00'11.0344"W	5509.73	165.450	0.26	0.22	0.14	
10897.00	89.780	160.910	6287.69	5588.93	-5422.76	1415.37	1639580.36	14260221.98	39°16'11.7867"N	81°00'10.6378"W	5604.42	165.372	0.36	-0.33	0.16	
10992.00	89.850	160.850	6288.00	5683.92	-5512.51	1446.49	1639611.47	14260132.26	39°16'10.8996"N	81°00'10.2421"W	5699.14	165.297	0.10	0.07	-0.06	
11086.00	89.570	158.960	6288.48	5777.90	-5600.79	1478.78	1639643.75	14260044.02	39°16'10.0271"N	81°00'9.8315"W	5792.72	165.210	2.03	-0.30	-2.01	
11181.00	89.720	157.900	6289.06	5872.79	-5689.13	1513.71	1639678.66	14259955.72	39°16'9.1539"N	81°00'9.3874"W	5887.06	165.101	1.13	0.16	-1.12	
11275.00	90.030	161.250	6289.27	5966.74	-5777.21	1546.51	1639711.45	14259867.67	39°16'8.2834"N	81°00'8.9703"W	5980.62	165.014	3.58	0.33	3.56	
11369.00	89.630	160.180	6289.55	6060.74	-5865.93	1577.55	1639742.48	14259778.99	39°16'7.4065"N	81°00'8.5756"W	6074.36	164.947	1.22	-0.43	-1.14	
11463.00	89.660	160.650	6290.13	6154.73	-5954.49	1609.06	1639773.97	14259690.46	39°16'6.5312"N	81°00'8.1749"W	6168.07	164.878	0.50	0.03	0.50	
11558.00	89.660	160.720	6290.69	6249.73	-6044.14	1640.48	1639805.38	14259600.85	39°16'5.6451"N	81°00'7.7754"W	6262.81	164.815	0.07	0.00	0.07	
11652.00	89.420	160.710	6291.45	6343.72	-6132.87	1671.53	1639836.41	14259512.16	39°16'4.7682"N	81°00'7.3806"W	6356.57	164.754	0.26	-0.26	-0.01	
11746.00	89.880	160.730	6292.02	6437.72	-6221.59	1702.56	1639867.44	14259423.47	39°16'3.8913"N	81°00'6.9860"W	6450.34	164.695	0.49	0.49	0.02	
11841.00	89.260	158.540	6292.74	6532.68	-6310.65	1735.62	1639900.48	14259334.45	39°16'3.0111"N	81°00'6.5657"W	6544.97	164.622	2.40	-0.65	-2.31	
11935.00	89.690	160.080	6293.60	6626.62	-6398.58	1768.83	1639933.68	14259246.56	39°16'2.1420"N	81°00'6.1434"W	6638.56	164.547	1.70	0.46	1.64	
12029.00	90.120	160.780	6293.75	6720.62	-6487.15	1800.31	1639965.15	14259158.02	39°16'1.2666"N	81°00'5.7431"W	6732.32	164.490	0.87	0.46	0.74	
12124.00	89.850	161.890	6293.78	6815.61	-6577.15	1830.72	1639995.54	14259068.06	39°16'0.3771"N	81°00'5.3565"W	6827.18	164.446	1.20	-0.28	1.17	
12218.00	89.910	162.200	6293.98	6909.60	-6666.57	1859.69	1640024.51	14258978.67	39°15'59.4933"N	81°00'4.9881"W	6921.10	164.413	0.34	0.06	0.33	
12313.00	90.830	161.880	6293.36	7004.58	-6756.94	1888.99	1640053.79	14258888.34	39°15'58.6001"N	81°00'4.6156"W	7016.02	164.381	1.03	0.97	-0.34	
12407.00	90.150	160.770	6292.56	7098.58	-6845.98	1919.08	1640083.87	14258799.33	39°15'57.7200"N	81°00'4.2329"W	7109.88	164.341	1.38	-0.72	-1.18	
12501.00	90.920	161.070	6291.68	7192.57	-6934.81	1949.81	1640114.59	14258710.53	39°15'56.8420"N	81°00'3.8423"W	7203.71	164.296	0.88	0.82	0.32	
12596.00	90.890	161.870	6290.18	7287.56	-7024.88	1980.00	1640144.76	14258620.51	39°15'55.9518"N	81°00'3.4584"W	7298.58	164.259	0.84	-0.03	0.84	
12690.00	90.800	161.830	6288.79	7381.54	-7114.19	2009.27	1640174.03	14258531.23	39°15'55.0691"N	81°00'3.0862"W	7392.49	164.229	0.10	-0.10	-0.04	
12785.00	90.580	161.830	6287.65	7476.53	-7204.45	2038.90	1640203.64	14258441.01	39°15'54.1770"N	81°00'2.7096"W	7487.40	164.198	0.23	-0.23	0.00	
12879.00	89.750	161.490	6287.38	7570.52	-7293.67	2068.47	1640233.20	14258351.82	39°15'53.2952"N	81°00'2.3335"W	7581.31	164.167	0.95	-0.88	-0.36	
12974.00	89.720	161.530	6287.82	7665.52	-7383.77	2098.60	1640263.32	14258261.76	39°15'52.4047"N	81°00'1.9504"W	7676.21	164.134	0.05	-0.03	0.04	
13068.00	89.850	161.590	6288.17	7759.51	-7472.94	2128.34	1640293.04	14258172.63	39°15'51.5233"N	81°00'1.5724"W	7770.11	164.103	0.15	0.14	0.06	
13163.00	89.600	161.750	6288.63	7854.51	-7563.12	2158.21	1640322.90	14258082.48	39°15'50.6320"N	81°00'1.1926"W	7865.03	164.073	0.31	-0.26	0.17	
13257.00	89.750	162.000	6289.16	7948.50	-7652.45	2187.45	1640352.13	14257993.18	39°15'49.7491"N	81°00'0.8208"W	7958.96	164.047	0.31	0.16	0.27	
13351.00	89.720	161.720	6289.60	8042.49	-7741.78	2216.72	1640381.39	14257903.89	39°15'48.8662"N	81°00'0.4487"W	8052.89	164.022	0.30	-0.03	-0.30	

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'
Page 7 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
13446.00	89.660	162.260	6290.11	8137.48	-7832.12	2246.09	1640410.75	14257813.59	39°15'47.9732"N	81°00'0.0753"W	8147.83	163.998	0.57	-0.06	0.57	
13540.00	90.090	162.010	6290.31	8231.46	-7921.59	2274.93	1640439.57	14257724.16	39°15'47.0890"N	80°59'59.7087"W	8241.78	163.977	0.53	0.46	-0.27	
13635.00	89.850	161.850	6290.36	8326.45	-8011.90	2304.39	1640469.03	14257633.88	39°15'46.1963"N	80°59'59.3340"W	8336.72	163.954	0.30	-0.25	-0.17	
13729.00	89.660	162.170	6290.77	8420.44	-8101.31	2333.43	1640498.05	14257544.51	39°15'45.3127"N	80°59'58.9649"W	8430.66	163.932	0.40	-0.20	0.34	
13824.00	89.660	161.830	6291.33	8515.42	-8191.66	2362.78	1640527.39	14257454.20	39°15'44.4197"N	80°59'58.5917"W	8525.61	163.910	0.36	0.00	-0.36	
13918.00	89.350	161.840	6292.14	8609.41	-8280.97	2392.09	1640556.68	14257364.92	39°15'43.5369"N	80°59'58.2192"W	8619.54	163.888	0.33	-0.33	0.01	
14012.00	89.230	161.350	6293.31	8703.40	-8370.15	2421.76	1640586.35	14257275.77	39°15'42.6555"N	80°59'57.8419"W	8713.46	163.863	0.54	-0.13	-0.52	
14107.00	89.660	161.750	6294.23	8798.39	-8460.26	2451.83	1640616.40	14257185.70	39°15'41.7648"N	80°59'57.4597"W	8808.38	163.838	0.62	0.45	0.42	
14200.00	89.690	161.880	6294.75	8891.39	-8548.62	2480.85	1640645.41	14257097.38	39°15'40.8915"N	80°59'57.0907"W	8901.32	163.817	0.14	0.03	0.14	
14295.00	89.780	162.070	6295.19	8986.37	-8638.95	2510.25	1640674.80	14257007.08	39°15'39.9987"N	80°59'56.7170"W	8996.27	163.798	0.22	0.09	0.20	
14389.00	89.630	161.870	6295.68	9080.36	-8728.34	2539.34	1640703.88	14256917.73	39°15'39.1152"N	80°59'56.3471"W	9090.22	163.779	0.27	-0.16	-0.21	
14483.00	89.780	161.890	6296.16	9174.35	-8817.67	2568.57	1640733.10	14256828.43	39°15'38.2322"N	80°59'55.9755"W	9184.17	163.759	0.16	0.16	0.02	
14578.00	89.850	161.600	6296.47	9269.35	-8907.89	2598.33	1640762.85	14256738.25	39°15'37.3405"N	80°59'55.5972"W	9279.11	163.739	0.31	0.07	-0.31	
14672.00	89.630	159.610	6296.90	9363.34	-8996.55	2629.55	1640794.05	14256649.62	39°15'36.4642"N	80°59'55.2004"W	9372.97	163.707	2.13	-0.23	-2.12	
14767.00	89.690	161.410	6297.46	9458.33	-9086.10	2661.24	1640825.73	14256560.11	39°15'35.5791"N	80°59'54.7974"W	9467.81	163.675	1.90	0.06	1.89	
14861.00	89.970	161.270	6297.74	9552.32	-9175.16	2691.32	1640855.79	14256471.09	39°15'34.6989"N	80°59'54.4151"W	9561.74	163.652	0.33	0.30	-0.15	
14955.00	89.940	159.090	6297.81	9646.31	-9263.59	2723.19	1640887.65	14256382.70	39°15'33.8249"N	80°59'54.0100"W	9655.56	163.618	2.32	-0.03	-2.32	
15050.00	89.660	159.740	6298.14	9741.26	-9352.52	2756.59	1640921.04	14256293.80	39°15'32.9459"N	80°59'53.5853"W	9750.30	163.578	0.74	-0.29	0.68	
15144.00	90.740	161.600	6297.82	9835.26	-9441.22	2787.70	1640952.14	14256205.14	39°15'32.0693"N	80°59'53.1898"W	9844.18	163.550	2.29	1.15	1.98	
15238.00	90.180	161.570	6297.06	9929.25	-9530.40	2817.39	1640981.82	14256115.99	39°15'31.1878"N	80°59'52.8124"W	9938.12	163.531	0.60	-0.60	-0.03	
15332.00	90.340	161.690	6296.63	10023.24	-9619.61	2847.02	1641011.43	14256026.82	39°15'30.3060"N	80°59'52.4358"W	10032.07	163.513	0.21	0.17	0.13	
15426.00	90.150	161.890	6296.23	10117.24	-9708.90	2876.39	1641040.80	14255937.56	39°15'29.4235"N	80°59'52.0624"W	10126.02	163.497	0.29	-0.20	0.21	
15520.00	90.180	161.660	6295.96	10211.23	-9798.18	2905.79	1641070.18	14255848.31	39°15'28.5410"N	80°59'51.6887"W	10219.98	163.482	0.25	0.03	-0.24	
15614.00	90.150	161.610	6295.69	10305.22	-9887.40	2935.41	1641099.79	14255759.14	39°15'27.6593"N	80°59'51.3122"W	10313.93	163.465	0.06	-0.03	-0.05	
15709.00	90.250	161.660	6295.36	10400.22	-9977.58	2965.34	1641129.71	14255669.01	39°15'26.7681"N	80°59'50.9317"W	10408.89	163.448	0.12	0.11	0.05	
15803.00	90.220	161.730	6294.97	10494.21	-10066.80	2994.86	1641159.22	14255579.81	39°15'25.8861"N	80°59'50.5564"W	10502.84	163.432	0.08	-0.03	0.07	
15898.00	90.180	161.450	6294.64	10589.21	-10156.94	3024.86	1641189.21	14255489.71	39°15'24.9952"N	80°59'50.1751"W	10597.79	163.416	0.30	-0.04	-0.29	
15992.00	89.880	161.740	6294.59	10683.21	-10246.13	3054.54	1641218.87	14255400.55	39°15'24.1136"N	80°59'49.7978"W	10691.74	163.400	0.44	-0.32	0.31	
16087.00	90.060	161.790	6294.64	10778.20	-10336.36	3084.27	1641248.59	14255310.36	39°15'23.2218"N	80°59'49.4199"W	10786.71	163.385	0.20	0.19	0.05	
16181.00	89.940	161.670	6294.64	10872.20	-10425.62	3113.74	1641278.05	14255221.13	39°15'22.3395"N	80°59'49.0454"W	10880.67	163.371	0.18	-0.13	-0.13	

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'
Page 8 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
16275.00	89.910	161.630	6294.77	10966.19	-10514.84	3143.33	1641307.63	14255131.95	39°15'21.4577"N	80°59'48.6692"W	10974.62	163.356	0.05	-0.03	-0.04	
16369.00	89.880	161.660	6294.94	11060.19	-10604.06	3172.93	1641337.22	14255042.77	39°15'20.5759"N	80°59'48.2929"W	11068.58	163.342	0.05	-0.03	0.03	
16464.00	89.880	161.730	6295.14	11155.18	-10694.25	3202.77	1641367.04	14254952.61	39°15'19.6844"N	80°59'47.9137"W	11163.54	163.328	0.07	0.00	0.07	
16558.00	89.820	161.970	6295.38	11249.17	-10783.57	3232.05	1641396.31	14254863.32	39°15'18.8016"N	80°59'47.5415"W	11257.51	163.315	0.26	-0.06	0.26	
16652.00	89.940	161.390	6295.58	11343.17	-10872.81	3261.60	1641425.84	14254774.12	39°15'17.9196"N	80°59'47.1659"W	11351.47	163.302	0.63	0.13	-0.62	
16746.00	89.820	161.620	6295.78	11437.17	-10961.95	3291.41	1641455.65	14254685.01	39°15'17.0385"N	80°59'46.7869"W	11445.43	163.287	0.28	-0.13	0.24	
16841.00	89.720	161.800	6296.16	11532.16	-11052.15	3321.23	1641485.45	14254594.85	39°15'16.1470"N	80°59'46.4080"W	11540.39	163.274	0.22	-0.11	0.19	
16935.00	89.940	161.760	6296.44	11626.15	-11141.44	3350.62	1641514.83	14254505.60	39°15'15.2645"N	80°59'46.0344"W	11634.36	163.262	0.24	0.23	-0.04	
17029.00	89.940	162.160	6296.54	11720.14	-11230.82	3379.73	1641543.93	14254416.26	39°15'14.3810"N	80°59'45.6644"W	11728.33	163.252	0.43	0.00	0.43	
17123.00	89.750	161.750	6296.79	11814.13	-11320.19	3408.85	1641573.04	14254326.92	39°15'13.4977"N	80°59'45.2943"W	11822.31	163.241	0.48	-0.20	-0.44	
17218.00	89.910	159.080	6297.07	11909.12	-11409.69	3440.69	1641604.86	14254237.46	39°15'12.6131"N	80°59'44.8896"W	11917.19	163.219	2.82	0.17	-2.81	
17312.00	89.940	159.050	6297.19	12003.06	-11497.48	3474.27	1641638.44	14254149.70	39°15'11.7453"N	80°59'44.4627"W	12010.94	163.186	0.05	0.03	-0.03	
17407.00	89.880	160.250	6297.34	12098.02	-11586.55	3507.31	1641671.46	14254060.66	39°15'10.8650"N	80°59'44.0428"W	12105.76	163.159	1.26	-0.06	1.26	
17501.00	89.750	158.510	6297.65	12191.98	-11674.53	3540.41	1641704.55	14253972.73	39°15'9.9954"N	80°59'43.6221"W	12199.55	163.130	1.86	-0.14	-1.85	
17596.00	89.970	156.920	6297.88	12286.81	-11762.43	3576.44	1641740.56	14253884.86	39°15'9.1266"N	80°59'43.1642"W	12294.13	163.088	1.69	0.23	-1.67	
17690.00	89.940	158.680	6297.95	12380.64	-11849.46	3611.95	1641776.06	14253797.87	39°15'8.2664"N	80°59'42.7128"W	12387.73	163.048	1.87	-0.03	1.87	
17784.00	89.780	161.640	6298.18	12474.62	-11937.87	3643.85	1641807.95	14253709.49	39°15'7.3926"N	80°59'42.3073"W	12481.60	163.026	3.15	-0.17	3.15	
17879.00	89.970	161.740	6298.39	12569.62	-12028.06	3673.70	1641837.78	14253619.34	39°15'6.5012"N	80°59'41.9280"W	12576.57	163.016	0.23	0.20	0.11	
17973.00	89.910	161.700	6298.49	12663.61	-12117.31	3703.18	1641867.25	14253530.12	39°15'5.6190"N	80°59'41.5533"W	12670.55	163.006	0.08	-0.06	-0.04	
18067.00	89.750	161.930	6298.77	12757.60	-12206.62	3732.52	1641896.58	14253440.85	39°15'4.7363"N	80°59'41.1805"W	12764.53	162.998	0.30	-0.17	0.24	
18162.00	89.880	161.790	6299.07	12852.59	-12296.90	3762.09	1641926.14	14253350.61	39°15'3.8440"N	80°59'40.8046"W	12859.51	162.989	0.20	0.14	-0.15	
18256.00	89.750	161.630	6299.38	12946.59	-12386.15	3791.59	1641955.63	14253261.39	39°15'2.9618"N	80°59'40.4296"W	12953.49	162.980	0.22	-0.14	-0.17	
18351.00	89.570	161.680	6299.94	13041.58	-12476.32	3821.49	1641985.52	14253171.26	39°15'2.0706"N	80°59'40.0496"W	13048.46	162.970	0.20	-0.19	0.05	
18445.00	89.820	161.640	6300.44	13135.58	-12565.54	3851.07	1642015.08	14253082.07	39°15'1.1887"N	80°59'39.6737"W	13142.43	162.961	0.27	0.27	-0.04	
18540.00	89.820	161.540	6300.74	13230.57	-12655.68	3881.07	1642045.07	14252991.97	39°15'0.2978"N	80°59'39.2924"W	13237.41	162.951	0.11	0.00	-0.11	
18635.00	89.600	159.180	6301.22	13325.56	-12745.14	3913.00	1642076.99	14252902.54	39°14'59.4135"N	80°59'38.8867"W	13332.30	162.933	2.49	-0.23	-2.48	
18729.00	90.000	160.380	6301.55	13419.53	-12833.35	3945.49	1642109.46	14252814.37	39°14'58.5417"N	80°59'38.4738"W	13426.16	162.910	1.35	0.43	1.28	
18823.00	89.970	160.750	6301.57	13513.52	-12921.99	3976.77	1642140.73	14252725.76	39°14'57.6655"N	80°59'38.0763"W	13520.08	162.894	0.39	-0.03	0.39	
18917.00	89.750	161.110	6301.80	13607.52	-13010.83	4007.48	1642171.43	14252636.96	39°14'56.7874"N	80°59'37.6860"W	13614.02	162.881	0.45	-0.23	0.38	
19012.00	89.940	161.830	6302.06	13702.52	-13100.91	4037.67	1642201.60	14252546.92	39°14'55.8971"N	80°59'37.3023"W	13708.99	162.871	0.78	0.20	0.76	

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Otterslide Unit 1H AWP Proj: 25858'
Page 9 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
19106.00	90.310	161.650	6301.86	13796.51	-13190.17	4067.12	1642231.05	14252457.69	39°14'55.0148"N	80°59'36.9280"W	13802.98	162.863	0.44	0.39	-0.19	
19201.00	89.970	161.510	6301.62	13891.51	-13280.31	4097.14	1642261.05	14252367.59	39°14'54.1239"N	80°59'36.5465"W	13897.95	162.854	0.39	-0.36	-0.15	
19295.00	90.250	161.650	6301.44	13985.51	-13369.49	4126.84	1642290.74	14252278.45	39°14'53.2424"N	80°59'36.1691"W	13991.93	162.846	0.33	0.30	0.15	
19390.00	90.120	161.730	6301.14	14080.50	-13459.68	4156.69	1642320.57	14252188.29	39°14'52.3510"N	80°59'35.7898"W	14086.91	162.838	0.16	-0.14	0.08	
19484.00	90.030	161.690	6301.01	14174.50	-13548.93	4186.19	1642350.06	14252099.08	39°14'51.4688"N	80°59'35.4149"W	14180.89	162.831	0.10	-0.10	-0.04	
19578.00	90.000	161.620	6300.99	14268.49	-13638.15	4215.77	1642379.64	14252009.89	39°14'50.5870"N	80°59'35.0389"W	14274.87	162.823	0.08	-0.03	-0.07	
19673.00	90.120	161.910	6300.89	14363.49	-13728.38	4245.50	1642409.35	14251919.70	39°14'49.6951"N	80°59'34.6612"W	14369.85	162.816	0.33	0.13	0.31	
19767.00	90.220	162.890	6300.61	14457.46	-13817.98	4273.92	1642437.76	14251830.13	39°14'48.8095"N	80°59'34.3000"W	14463.85	162.813	1.05	0.11	1.04	
19861.00	89.910	161.080	6300.50	14551.45	-13907.37	4302.99	1642466.82	14251740.78	39°14'47.9260"N	80°59'33.9306"W	14557.84	162.808	1.95	-0.33	-1.93	
19955.00	90.060	161.530	6300.53	14645.45	-13996.41	4333.12	1642496.94	14251651.78	39°14'47.0459"N	80°59'33.5477"W	14651.80	162.798	0.50	0.16	0.48	
20049.00	90.000	161.650	6300.48	14739.44	-14085.60	4362.81	1642526.61	14251562.63	39°14'46.1644"N	80°59'33.1705"W	14745.78	162.790	0.14	-0.06	0.13	
20144.00	90.000	161.540	6300.48	14834.44	-14175.74	4392.80	1642556.59	14251472.52	39°14'45.2734"N	80°59'32.7893"W	14840.76	162.783	0.12	0.00	-0.12	
20239.00	90.180	161.570	6300.33	14929.44	-14265.86	4422.86	1642586.64	14251382.44	39°14'44.3827"N	80°59'32.4074"W	14935.74	162.775	0.19	0.19	0.03	
20333.00	90.030	161.830	6300.16	15023.43	-14355.10	4452.37	1642616.14	14251293.23	39°14'43.5006"N	80°59'32.0323"W	15029.72	162.768	0.32	-0.16	0.28	
20427.00	90.310	161.590	6299.88	15117.42	-14444.35	4481.87	1642645.63	14251204.01	39°14'42.6184"N	80°59'31.6574"W	15123.71	162.762	0.39	0.30	-0.26	
20522.00	90.370	161.930	6299.31	15212.42	-14534.58	4511.61	1642675.35	14251113.82	39°14'41.7266"N	80°59'31.2796"W	15218.69	162.755	0.36	0.06	0.36	
20616.00	90.180	161.680	6298.86	15306.41	-14623.88	4540.96	1642704.69	14251024.56	39°14'40.8440"N	80°59'30.9066"W	15312.68	162.750	0.33	-0.20	-0.27	
20710.00	90.250	161.810	6298.51	15400.40	-14713.15	4570.40	1642734.13	14250935.33	39°14'39.9616"N	80°59'30.5325"W	15406.66	162.743	0.16	0.07	0.14	
20805.00	90.310	161.560	6298.05	15495.40	-14803.33	4600.26	1642763.97	14250845.18	39°14'39.0702"N	80°59'30.1532"W	15501.64	162.737	0.27	0.08	-0.28	
20899.00	90.370	161.620	6297.49	15589.39	-14892.52	4629.94	1642793.64	14250756.03	39°14'38.1887"N	80°59'29.7759"W	15595.82	162.730	0.09	0.06	0.06	
20994.00	90.340	161.750	6296.90	15684.38	-14982.71	4659.79	1642823.48	14250665.88	39°14'37.2973"N	80°59'29.3966"W	15690.61	162.724	0.14	-0.03	0.14	
21088.00	90.250	161.690	6296.42	15778.38	-15071.96	4689.28	1642852.95	14250576.66	39°14'36.4151"N	80°59'29.0220"W	15784.59	162.718	0.12	-0.10	-0.06	
21182.00	90.370	161.620	6295.91	15872.37	-15161.18	4718.86	1642882.53	14250487.47	39°14'35.5332"N	80°59'28.6461"W	15878.57	162.711	0.15	0.13	-0.07	
21277.00	90.280	161.420	6295.37	15967.37	-15251.28	4748.97	1642912.63	14250397.41	39°14'34.6426"N	80°59'28.2635"W	15973.55	162.704	0.23	-0.09	-0.21	
21372.00	90.180	161.600	6294.99	16062.36	-15341.38	4779.10	1642942.74	14250307.35	39°14'33.7521"N	80°59'27.8806"W	16068.53	162.697	0.22	-0.11	0.19	
21466.00	90.250	161.660	6294.63	16156.36	-15430.59	4808.73	1642972.35	14250218.18	39°14'32.8704"N	80°59'27.5042"W	16162.51	162.691	0.10	0.07	0.06	
21560.00	90.340	161.830	6294.15	16250.35	-15519.85	4838.17	1643001.79	14250128.94	39°14'31.9880"N	80°59'27.1301"W	16256.50	162.686	0.20	0.10	0.18	
21655.00	90.340	161.840	6293.59	16345.34	-15610.12	4867.79	1643031.39	14250038.72	39°14'31.0959"N	80°59'26.7538"W	16351.49	162.681	0.01	0.00	0.01	
21750.00	90.340	161.620	6293.02	16440.34	-15700.33	4897.57	1643061.16	14249948.54	39°14'30.2042"N	80°59'26.3754"W	16446.47	162.675	0.23	0.00	-0.23	
21844.00	90.220	162.050	6292.58	16534.33	-15789.64	4926.87	1643090.45	14249859.27	39°14'29.3214"N	80°59'26.0031"W	16540.46	162.670	0.47	-0.13	0.46	

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'
Page 10 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
21938.00	90.220	160.360	6292.20	16628.32	-15878.63	4957.16	1643120.72	14249770.32	39°14'28.4419"N	80°59'25.6183"W	16634.43	162.662	1.80	0.00	-1.80	
22033.00	90.150	158.930	6291.90	16723.29	-15967.69	4990.20	1643153.75	14249681.29	39°14'27.5616"N	80°59'25.1984"W	16729.29	162.645	1.51	-0.07	-1.51	
22127.00	89.910	160.960	6291.85	16817.27	-16055.99	5022.43	1643185.97	14249593.03	39°14'26.6888"N	80°59'24.7889"W	16823.18	162.630	2.17	-0.26	2.16	
22221.00	89.850	160.640	6292.04	16911.26	-16144.76	5053.35	1643216.88	14249504.29	39°14'25.8114"N	80°59'24.3961"W	16917.14	162.620	0.35	-0.06	-0.34	
22316.00	89.970	160.830	6292.19	17006.26	-16234.44	5084.69	1643248.21	14249414.65	39°14'24.9250"N	80°59'23.9979"W	17012.08	162.609	0.24	0.13	0.20	
22410.00	90.060	160.620	6292.17	17100.26	-16323.17	5115.72	1643279.22	14249325.95	39°14'24.0480"N	80°59'23.6036"W	17106.03	162.599	0.24	0.10	-0.22	
22504.00	89.880	160.640	6292.22	17194.26	-16411.85	5146.90	1643310.39	14249237.31	39°14'23.1714"N	80°59'23.2075"W	17199.98	162.588	0.19	-0.19	0.02	
22599.00	89.880	160.430	6292.42	17289.25	-16501.42	5178.55	1643342.03	14249147.78	39°14'22.2861"N	80°59'22.8053"W	17294.92	162.577	0.22	0.00	-0.22	
22693.00	89.940	160.570	6292.56	17383.25	-16590.03	5209.93	1643373.40	14249059.20	39°14'21.4103"N	80°59'22.4066"W	17388.86	162.566	0.16	0.06	0.15	
22788.00	89.720	160.980	6292.85	17478.24	-16679.73	5241.21	1643404.67	14248969.54	39°14'20.5237"N	80°59'22.0092"W	17483.81	162.556	0.49	-0.23	0.43	
22882.00	90.000	160.910	6293.08	17572.24	-16768.58	5271.90	1643435.34	14248880.73	39°14'19.6455"N	80°59'21.6193"W	17577.77	162.547	0.31	0.30	-0.07	
22977.00	89.780	160.610	6293.26	17667.24	-16858.27	5303.21	1643466.63	14248791.07	39°14'18.7589"N	80°59'21.2216"W	17672.73	162.538	0.39	-0.23	-0.32	
23071.00	89.690	160.840	6293.69	17761.24	-16947.00	5334.24	1643497.65	14248702.37	39°14'17.8819"N	80°59'20.8273"W	17766.68	162.528	0.26	-0.10	0.24	
23166.00	89.750	160.240	6294.16	17856.23	-17036.57	5365.88	1643529.29	14248612.84	39°14'16.9965"N	80°59'20.4252"W	17861.62	162.518	0.63	0.06	-0.63	
23260.00	89.750	160.610	6294.57	17950.22	-17125.14	5397.38	1643560.77	14248524.31	39°14'16.1211"N	80°59'20.0251"W	17955.56	162.507	0.39	0.00	0.39	
23355.00	89.910	160.540	6294.85	18045.22	-17214.73	5428.97	1643592.35	14248434.75	39°14'15.2356"N	80°59'19.6237"W	18050.50	162.496	0.18	0.17	-0.07	
23450.00	90.030	161.250	6294.90	18140.22	-17304.50	5460.07	1643623.43	14248345.02	39°14'14.3483"N	80°59'19.2287"W	18145.46	162.488	0.76	0.13	0.75	
23544.00	89.910	160.800	6294.95	18234.22	-17393.39	5490.63	1643653.98	14248256.16	39°14'13.4697"N	80°59'18.8404"W	18239.43	162.480	0.50	-0.13	-0.48	
23638.00	90.000	160.890	6295.02	18328.22	-17482.18	5521.47	1643684.81	14248167.40	39°14'12.5920"N	80°59'18.4485"W	18333.40	162.472	0.14	0.10	0.10	
23733.00	89.820	161.540	6295.17	18423.21	-17572.12	5552.07	1643715.39	14248077.50	39°14'11.7030"N	80°59'18.0599"W	18428.37	162.466	0.71	-0.19	0.68	
23827.00	89.970	161.310	6295.34	18517.21	-17661.23	5582.01	1643745.32	14247988.43	39°14'10.8223"N	80°59'17.6795"W	18522.36	162.460	0.29	0.16	-0.24	
23921.00	90.150	160.460	6295.25	18611.21	-17750.04	5612.79	1643776.09	14247899.65	39°14'9.9444"N	80°59'17.2885"W	18616.32	162.452	0.92	0.19	-0.90	
24016.00	90.000	160.380	6295.12	18706.20	-17839.55	5644.63	1643807.92	14247810.18	39°14'9.0597"N	80°59'16.8840"W	18711.26	162.442	0.18	-0.16	-0.08	
24204.00	90.060	160.780	6295.02	18894.20	-18016.85	5707.13	1643870.40	14247632.95	39°14'7.3072"N	80°59'16.0899"W	18899.16	162.424	0.22	0.03	0.21	
24298.00	90.250	160.700	6294.77	18988.19	-18105.59	5738.14	1643901.39	14247544.25	39°14'6.4301"N	80°59'15.6960"W	18993.12	162.415	0.22	0.20	-0.09	
24487.00	90.060	160.570	6294.26	19177.19	-18283.90	5800.81	1643964.04	14247366.01	39°14'4.6676"N	80°59'14.8999"W	19182.03	162.398	0.12	-0.10	-0.07	
24581.00	90.060	160.640	6294.16	19271.18	-18372.56	5832.03	1643995.24	14247277.38	39°14'3.7912"N	80°59'14.5033"W	19275.98	162.389	0.07	0.00	0.07	
24676.00	90.150	160.420	6293.98	19366.18	-18462.13	5863.69	1644026.89	14247187.85	39°14'2.9059"N	80°59'14.1011"W	19370.93	162.380	0.25	0.09	-0.23	
24770.00	90.150	160.540	6293.74	19460.17	-18550.73	5895.10	1644058.29	14247099.29	39°14'2.0302"N	80°59'13.7021"W	19464.88	162.371	0.13	0.00	0.13	
24865.00	90.120	160.920	6293.51	19555.17	-18640.40	5926.45	1644089.63	14247009.65	39°14'1.1438"N	80°59'13.3038"W	19559.84	162.363	0.40	-0.03	0.40	

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'

Page 11 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH DATA (282 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
24959.00	90.180	160.790	6293.27	19649.17	-18729.20	5957.28	1644120.44	14246920.88	39°14'0.2661"N	80°59'12.9122"W	19653.81	162.355	0.15	0.06	-0.14	
25054.00	90.280	161.010	6292.89	19744.17	-18818.97	5988.36	1644151.52	14246831.15	39°13'59.3788"N	80°59'12.5173"W	19748.78	162.348	0.25	0.11	0.23	
25148.00	90.280	160.710	6292.43	19838.16	-18907.78	6019.18	1644182.32	14246742.38	39°13'58.5010"N	80°59'12.1258"W	19842.75	162.341	0.32	0.00	-0.32	
25243.00	90.220	160.770	6292.01	19933.16	-18997.46	6050.52	1644213.65	14246652.74	39°13'57.6146"N	80°59'11.7278"W	19937.71	162.334	0.09	-0.06	0.06	
25337.00	90.310	160.970	6291.58	20027.16	-19086.27	6081.32	1644244.44	14246563.97	39°13'56.7368"N	80°59'11.3365"W	20031.68	162.327	0.23	0.10	0.21	
25432.00	90.090	160.650	6291.25	20122.16	-19175.99	6112.55	1644275.65	14246474.28	39°13'55.8499"N	80°59'10.9398"W	20126.64	162.320	0.41	-0.23	-0.34	
25526.00	90.250	160.500	6290.97	20216.15	-19264.64	6143.81	1644306.90	14246385.67	39°13'54.9737"N	80°59'10.5427"W	20220.60	162.312	0.23	0.17	-0.16	
25621.00	90.160	160.740	6290.64	20311.15	-19354.25	6175.34	1644338.41	14246296.09	39°13'54.0879"N	80°59'10.1423"W	20315.56	162.304	0.27	-0.11	0.25	
25715.00	90.120	160.600	6290.41	20405.15	-19442.95	6206.45	1644369.52	14246207.42	39°13'53.2111"N	80°59'9.7470"W	20409.52	162.296	0.15	-0.03	-0.15	
25809.00	90.090	160.820	6290.24	20499.14	-19531.68	6237.50	1644400.56	14246118.74	39°13'52.3342"N	80°59'9.3526"W	20503.48	162.289	0.24	-0.03	0.23	
25832.00	90.340	160.780	6290.16	20522.14	-19553.40	6245.07	1644408.12	14246097.02	39°13'52.1195"N	80°59'9.2565"W	20526.48	162.287	1.10	1.09	-0.17	
25858.00‡	90.340	160.780	6290.00	20548.14	-19577.95	6253.63	1644416.67	14246072.48	39°13'51.8768"N	80°59'9.1478"W	20552.47	162.285	0.00	0.00	0.00	Projected MD at TD: 25858'

HOLE & CASING SECTIONS - Ref Wellbore: Otterslide Unit 1H AWB Ref Wellpath: Otterslide Unit 1H AWP Proj: 25858'

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	-0.06	-0.12
17.5in Open Hole	125.50	381.00	255.50	125.50	381.00	-0.06	-0.12	-0.06	-1.41
13.375in Casing Surface	25.50	361.00	335.50	25.50	361.00	0.00	0.00	-0.01	-1.27
12.375in Open Hole	381.00	3060.00	2679.00	381.00	3059.92	-0.06	-1.41	-2.16	-16.05
9.625in Casing Intermediate	25.50	3030.00	3004.50	25.50	3029.92	0.00	0.00	-2.03	-16.06
8.75in Open Hole	3060.00	5832.00	2772.00	3059.92	5673.61	-2.16	-16.05	-848.98	-76.75
8.5in Open Hole	5832.00	25858.00	20026.00	5673.61	6290.00	-848.98	-76.75	-19577.95	6253.63
5.5in Casing Production	25.50	25838.00	25812.50	25.50	6290.12	0.00	0.00	-19559.06	6247.04

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'

Page 12 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Otterslide Unit 1H POE Rev-4	6228.00	-1406.61	30.31	1638195.86	14264236.52	39°16'51.4805"N	81°00'28.2532"W	point
Otterslide Unit 1H POE Rev-2	6261.00	-933.54	-131.56	1638034.05	14264709.40	39°16'56.1561"N	81°00'30.3123"W	point
Otterslide Unit 1H BHL Rev-3	6268.00	-20070.68	6417.19	1644580.17	14245579.95	39°13'47.0065"N	80°59'7.0703"W	point
Otterslide Unit 1H BHL Rev-4	6268.00	-19550.30	6239.12	1644402.17	14246100.12	39°13'52.1501"N	80°59'9.3321"W	point
Otterslide Unit 1H LP Rev-3	6268.00	-1645.74	112.14	1638277.66	14263997.48	39°16'49.1171"N	81°00'27.2123"W	point
Otterslide Unit 1H 50' L/R Hard Line R-3	6500.00	-10478.45	3134.71	1641299.01	14255168.32	39°15'21.8173"N	80°59'48.7787"W	rectangle
2D Rectangle 19176.6 x 100.								

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Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'

Page 13 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

WELLPATH COMPOSITION - Ref Wellbore: Otterslide Unit 1H AWB Ref Wellpath: Otterslide Unit 1H AWP Proj: 25858'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	300.00	Gyrodatta 2015 - GC+WIR+DPIPE	01_Gyrodatta MS Gyro <17-1/2"> (100'-300')	Otterslide Unit 1H AWB	5/26/2024
300.00	472.00	Gyrodatta 2015 - GC+WIR+DPIPE	02_Gyrodatta MS Gyro <12-3/8"> (300')(400'-472')	Otterslide Unit 1H AWB	5/27/2024
472.00	2987.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-3/8"> (472')(503'-2987')	Otterslide Unit 1H AWB	5/26/2024
2987.00	5758.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (2987')(3111'-5758')	Otterslide Unit 1H AWB	6/25/2024
5758.00	25858.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH Lucida <8-1/2"> (5758')(5798'-25832')	Otterslide Unit 1H AWB	6/25/2024

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Environmental Protection



Actual Wellpath Report

Otterslide Unit 1H AWP Proj: 25858'

Page 14 of 14



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Operator	ANTERO RESOURCES CORPORATION	Well	Otterslide Unit 1H
Field	Ritchie	API	47-085-10519-0000
Facility	Olympus Pad	Wellbore	Otterslide Unit 1H AWB
Slot	Slot B		

COMMENTS

Wellpath general comments

API: 47-085-10519-0000

BH Job #: 112220024

Rig: H&P 317

Duration: 6/27/2024-7/3/2024

Gyrodata MS Gyro <17-1/2"> (100'-300')

Gyrodata MS Gyro <12-3/8"> (300')(400'-472')

APS EM <12-3/8"> (472')(503'-2987')

APS EM <8-3/4"> (2987')(3111'-5758')

BH Lucida <8-1/2"> (5758')(5798'-25832')

Sycamore: 6229' MD

Middlesex: 6373' MD

Burkett: 6609' MD

Tully: 6676' MD

Marcellus POE: 6701' MD

Projected MD at TD: 25858'

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