



ANTERO RESOURCES CORPORATION

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

Slot: Slot A
Well: Lambert Unit 1H
Wellbore: Lambert Unit 1H PWB

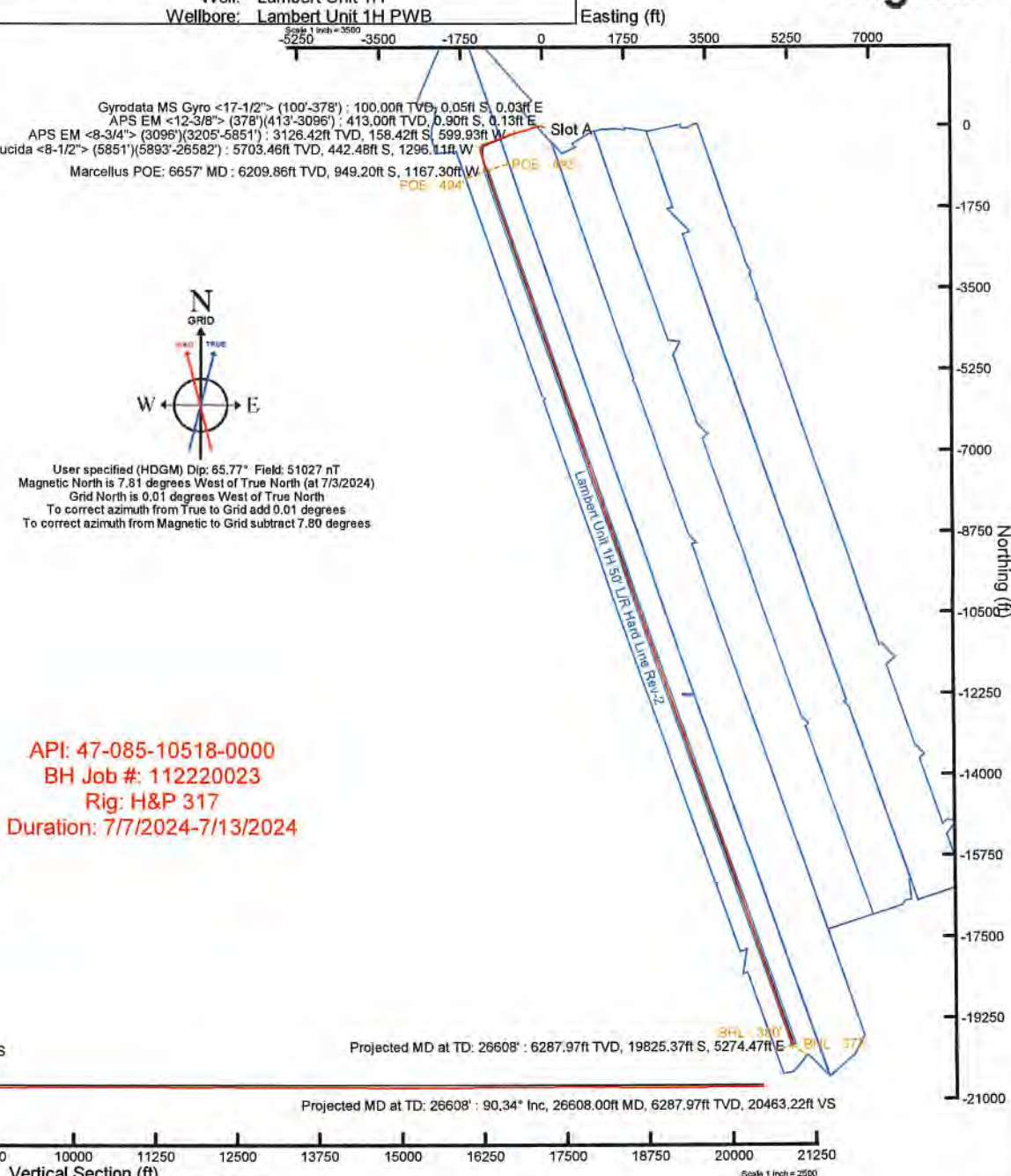
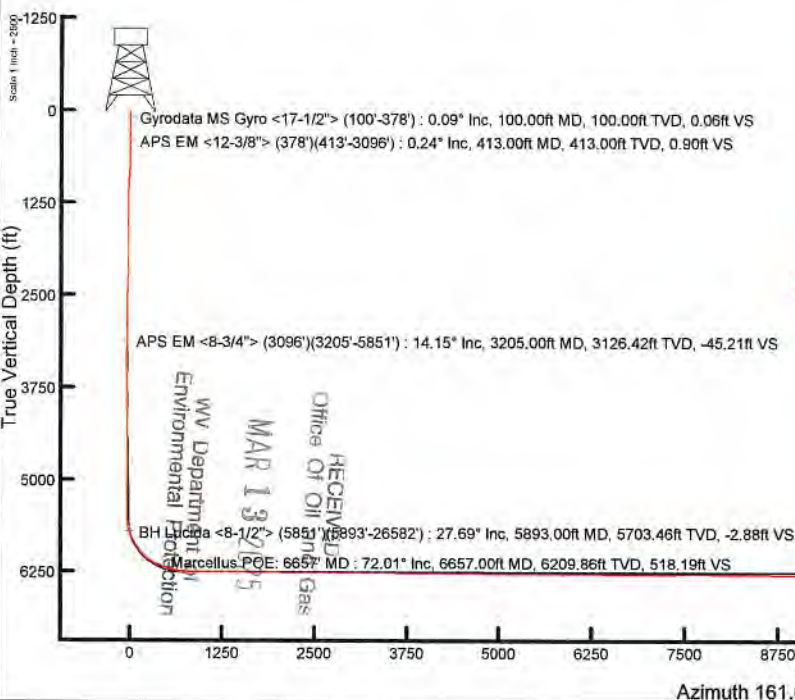


Plot reference wellpath is Lambert Unit 1H PWP Rev-B.0	Grid System: NAD2011 / UTM Zone 17 North, US foot
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1050.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot A): -1025 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edwaryn on 2024-07-16, Database: WA_MPL_EASTERNUS, Dets

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Olympus Pad	1636177.570	14265833.590	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 A	17.95	-24.03	1636153.550	14265851.530	39°17'5.4717"N
Comment: Lambert Unit 1H					
H&P 317 (RKB) to Ground level (At Slot: Slot A)					25.5ft
Mean Sea Level to Ground level (At Slot: Slot A)					-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)
Tile On	3096.00	15.300	251.380	3021.00	-149.08	-573.85	0.75	-45.56
Proj. to Bottom	3169.00	15.300	251.360	3090.45	-155.16	-591.86	0.00	-45.67
Drill Out	3249.00	15.300	251.360	3167.61	-161.90	-611.86	0.00	-45.79
End of 3D Arc	3290.18	15.516	248.291	3208.28	-165.77	-622.37	2.00	-45.55
Curve KOP	5726.07	15.516	248.291	5555.39	-406.81	-1227.79	0.00	-14.41
POE	6610.53	70.761	161.030	6213.00	-911.22	-1198.10	8.00	472.26
Landing Pt.	6851.02	90.000	161.030	6253.00	-1134.40	-1121.39	8.00	708.26
BHL	26598.36	90.000	161.030	6253.00	-19809.26	5297.87	0.00	20455.60

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	Lambert Unit 1H	Lambert Unit 1H AWP	Lambert Unit 1H AWP Proj: 26608°
Slot A	Lambert Unit 1H	Lambert Unit 1H PWB	Lambert Unit 1H PWP Rev-B.0



API: 47-085-10518-0000
BH Job #: 112220023
Rig: H&P 317
Duration: 7/7/2024-7/13/2024

Projected MD at TD: 26608° : 6287.97ft TVD, 19825.37ft S, 5274.47ft E
Projected MD at TD: 26608° : 90.34° Inc, 26608.00ft MD, 6287.97ft TVD, 20463.22ft VS



Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

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	7/16/2024 at 11:07:06 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	17.95	-24.03	1638153.55	14265651.53	39°17'5.4717"N	81°00'28.7931"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 A)	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	161.03°

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Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (289 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	147.160	0.00	0.00	0.00	0.00	1638153.55	14265651.53	39°17'5.4717"N	81°00'28.7931"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	147.160	25.50	0.00	0.00	0.00	1638153.55	14265651.53	39°17'5.4717"N	81°00'28.7931"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.090	147.160	100.00	0.06	-0.05	0.03	1638153.58	14265651.48	39°17'5.4712"N	81°00'28.7927"W	0.06	147.160	0.12	0.12	0.00	Gyrodata MS Gyro <17-1/2"> (100'-378')
200.00	0.070	133.440	200.00	0.19	-0.16	0.12	1638153.67	14265651.37	39°17'5.4701"N	81°00'28.7915"W	0.20	142.941	0.03	-0.02	-13.72	
300.00	0.280	171.060	300.00	0.48	-0.44	0.20	1638153.75	14265651.09	39°17'5.4673"N	81°00'28.7905"W	0.48	155.474	0.23	0.21	37.62	
378.00	0.220	198.290	378.00	0.79	-0.77	0.18	1638153.73	14265650.76	39°17'5.4641"N	81°00'28.7907"W	0.79	166.604	0.17	-0.08	34.91	
413.00	0.240	203.500	413.00	0.90	-0.90	0.13	1638153.68	14265650.63	39°17'5.4628"N	81°00'28.7914"W	0.91	171.593	0.08	0.06	14.89	APS EM <12-3/8"> (378')(413'-3096')
503.00	0.360	215.360	503.00	1.20	-1.31	-0.11	1638153.44	14265650.23	39°17'5.4588"N	81°00'28.7944"W	1.31	184.619	0.15	0.13	13.18	
592.00	2.690	262.990	591.96	0.93	-1.79	-2.34	1638151.21	14265649.74	39°17'5.4540"N	81°00'28.8228"W	2.95	232.616	2.77	2.62	53.52	
680.00	5.000	266.030	679.76	-0.49	-2.31	-8.22	1638145.34	14265649.22	39°17'5.4489"N	81°00'28.8976"W	8.53	254.323	2.63	2.62	3.45	
768.00	7.140	271.960	767.26	-3.44	-2.38	-17.51	1638136.05	14265649.15	39°17'5.4481"N	81°00'29.0157"W	17.67	262.245	2.53	2.43	6.74	
857.00	9.110	273.340	855.36	-8.09	-1.78	-30.07	1638123.49	14265649.75	39°17'5.4540"N	81°00'29.1755"W	30.12	266.603	2.22	2.21	1.55	
946.00	11.640	273.870	942.90	-14.25	-0.77	-46.07	1638107.50	14265650.76	39°17'5.4640"N	81°00'29.3789"W	46.07	269.045	2.84	2.84	0.60	
1036.00	11.980	265.990	1031.00	-20.18	-0.81	-64.44	1638089.13	14265650.72	39°17'5.4636"N	81°00'29.6126"W	64.45	269.281	1.83	0.38	-8.76	
1130.00	12.840	259.040	1122.81	-24.16	-3.48	-84.43	1638069.15	14265648.05	39°17'5.4372"N	81°00'29.8668"W	84.50	267.642	1.83	0.91	-7.39	
1225.00	14.700	254.110	1215.08	-26.28	-8.78	-106.39	1638047.20	14265642.75	39°17'5.3848"N	81°00'30.1461"W	106.75	265.280	2.31	1.96	-5.19	
1319.00	14.920	252.610	1305.95	-27.25	-15.67	-129.41	1638024.19	14265635.87	39°17'5.3167"N	81°00'30.4388"W	130.35	263.097	0.47	0.23	-1.60	
1413.00	14.950	252.460	1396.78	-27.89	-22.94	-152.52	1638001.09	14265628.60	39°17'5.2448"N	81°00'30.7327"W	154.23	261.447	0.05	0.03	-0.16	
1508.00	15.310	252.420	1488.49	-28.50	-30.42	-176.16	1637977.46	14265621.12	39°17'5.1709"N	81°00'31.0333"W	178.77	260.203	0.38	0.38	-0.04	
1602.00	15.520	251.990	1579.10	-29.01	-38.06	-199.95	1637953.68	14265613.49	39°17'5.0954"N	81°00'31.3359"W	203.54	259.224	0.25	0.22	-0.46	
1697.00	15.430	250.940	1670.66	-29.20	-46.11	-223.98	1637929.66	14265605.44	39°17'5.0157"N	81°00'31.6415"W	228.68	258.367	0.31	-0.09	-1.11	
1791.00	14.820	250.010	1761.40	-28.97	-54.31	-247.10	1637906.55	14265597.25	39°17'4.9347"N	81°00'31.9355"W	253.00	257.605	0.70	-0.65	-0.99	
1886.00	14.400	248.430	1853.33	-28.22	-62.80	-269.50	1637884.16	14265588.75	39°17'4.8507"N	81°00'32.2204"W	276.72	256.883	0.61	-0.44	-1.66	
1980.00	14.410	247.600	1944.38	-26.99	-71.56	-291.19	1637862.48	14265580.00	39°17'4.7642"N	81°00'32.4962"W	299.85	256.194	0.22	0.01	-0.88	
2075.00	14.190	249.300	2036.43	-25.93	-80.18	-313.01	1637840.67	14265571.39	39°17'4.6789"N	81°00'32.7737"W	323.11	255.633	0.50	-0.23	1.79	
2169.00	14.030	254.220	2127.60	-26.21	-87.35	-334.75	1637818.93	14265564.22	39°17'4.6080"N	81°00'33.0502"W	345.96	255.376	1.29	-0.17	5.23	
2264.00	15.100	257.260	2219.55	-28.20	-93.21	-357.90	1637795.79	14265558.36	39°17'4.5501"N	81°00'33.3446"W	369.84	255.403	1.38	1.13	3.20	
2359.00	16.470	259.380	2310.96	-31.50	-98.42	-383.21	1637770.49	14265553.15	39°17'4.4986"N	81°00'33.6664"W	395.65	255.596	1.56	1.44	2.23	
2453.00	16.290	258.660	2401.15	-35.18	-103.47	-409.23	1637744.48	14265548.10	39°17'4.4486"N	81°00'33.9974"W	422.11	255.811	0.29	-0.19	-0.77	
2548.00	15.750	256.120	2492.46	-38.10	-109.18	-434.81	1637718.91	14265542.39	39°17'4.3922"N	81°00'34.3227"W	448.31	255.905	0.93	-0.57	-2.67	

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Lambert Unit 1H AWP Proj: 26608'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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	15.280	255.690	2583.03	-40.23	-115.30	-459.20	1637694.53	14265536.27	39°17'4.3316"N	81°00'34.6328"W	473.45	255.905	0.51	-0.50	-0.46	
2737.00	14.710	254.150	2674.80	-41.91	-121.69	-482.93	1637670.81	14265529.89	39°17'4.2685"N	81°00'34.9347"W	498.03	255.857	0.73	-0.60	-1.62	
2831.00	14.680	253.250	2765.73	-43.02	-128.38	-505.82	1637647.93	14265523.20	39°17'4.2023"N	81°00'35.2257"W	521.86	255.758	0.24	-0.03	-0.96	
2926.00	15.940	254.150	2857.35	-44.19	-135.42	-529.90	1637623.87	14265516.17	39°17'4.1328"N	81°00'35.5319"W	546.93	255.665	1.35	1.33	0.95	
3021.00	15.770	252.510	2948.74	-45.24	-142.86	-554.76	1637599.02	14265508.73	39°17'4.0592"N	81°00'35.8481"W	572.86	255.559	0.50	-0.18	-1.73	
3096.00	15.300	251.360	3021.00	-45.56	-149.08	-573.85	1637579.93	14265502.51	39°17'3.9976"N	81°00'36.0909"W	592.90	255.437	0.75	-0.63	-1.53	
3205.00	14.150	249.160	3126.42	-45.21	-158.42	-599.93	1637553.86	14265493.17	39°17'3.9053"N	81°00'36.4226"W	620.50	255.208	1.17	-1.06	-2.02	APS EM <8-3/4"> (3096')(3205'-5851')
3300.00	15.130	253.590	3218.34	-45.38	-166.05	-622.68	1637531.12	14265485.54	39°17'3.8298"N	81°00'36.7118"W	644.44	255.068	1.57	1.03	4.66	
3394.00	15.680	252.570	3308.96	-46.27	-173.32	-646.57	1637507.24	14265478.27	39°17'3.7579"N	81°00'37.0156"W	669.40	254.994	0.65	0.59	-1.09	
3489.00	15.080	250.000	3400.56	-46.39	-181.40	-670.43	1637483.39	14265470.21	39°17'3.6781"N	81°00'37.3191"W	694.54	254.860	0.96	-0.63	-2.71	
3583.00	16.510	250.670	3491.00	-46.09	-190.00	-694.52	1637459.31	14265461.61	39°17'3.5931"N	81°00'37.6255"W	720.04	254.700	1.53	1.52	0.71	
3677.00	16.140	249.640	3581.21	-45.69	-198.97	-719.38	1637434.46	14265452.64	39°17'3.5044"N	81°00'37.9415"W	746.39	254.539	0.50	-0.39	-1.10	
3771.00	15.350	246.500	3671.69	-44.39	-208.47	-743.04	1637410.81	14265443.14	39°17'3.4104"N	81°00'38.2424"W	771.73	254.327	1.24	-0.84	-3.34	
3866.00	15.850	247.580	3763.19	-42.62	-218.44	-766.56	1637387.30	14265433.18	39°17'3.3119"N	81°00'38.5416"W	797.08	254.095	0.61	0.53	1.14	
3960.00	17.280	249.470	3853.29	-41.46	-228.23	-791.50	1637362.37	14265423.39	39°17'3.2151"N	81°00'38.8587"W	823.75	253.915	1.63	1.52	2.01	
4054.00	16.410	247.370	3943.25	-40.23	-238.23	-816.83	1637337.05	14265413.39	39°17'3.1162"N	81°00'39.1809"W	850.87	253.740	1.13	-0.93	-2.23	
4148.00	14.790	243.620	4033.79	-37.84	-248.68	-839.84	1637314.05	14265402.95	39°17'3.0130"N	81°00'39.4734"W	875.88	253.506	2.03	-1.72	-3.99	
4243.00	14.390	248.460	4125.73	-35.75	-258.40	-861.68	1637292.21	14265393.24	39°17'2.9168"N	81°00'39.7512"W	899.59	253.307	1.35	-0.42	5.09	
4337.00	14.550	250.650	4216.75	-35.14	-266.60	-883.69	1637270.22	14265385.04	39°17'2.8358"N	81°00'40.0311"W	923.03	253.212	0.61	0.17	2.33	
4432.00	15.610	253.000	4308.48	-35.50	-274.29	-907.17	1637246.74	14265377.35	39°17'2.7597"N	81°00'40.3297"W	947.73	253.177	1.29	1.12	2.47	
4526.00	16.820	253.010	4398.74	-36.41	-281.96	-932.27	1637221.65	14265369.68	39°17'2.6839"N	81°00'40.6489"W	973.98	253.172	1.29	1.29	0.01	
4621.00	15.810	250.230	4489.91	-36.70	-290.36	-957.60	1637196.34	14265361.29	39°17'2.6009"N	81°00'40.9710"W	1000.65	253.132	1.34	-1.06	-2.93	
4715.00	16.870	248.700	4580.11	-35.97	-299.64	-982.36	1637171.59	14265352.01	39°17'2.5091"N	81°00'41.2858"W	1027.04	253.037	1.22	1.13	-1.63	
4810.00	15.920	246.520	4671.25	-34.39	-309.84	-1007.15	1637146.80	14265341.81	39°17'2.4082"N	81°00'41.6011"W	1053.73	252.900	1.19	-1.00	-2.29	
4904.00	15.220	249.500	4761.80	-33.04	-319.30	-1030.53	1637123.43	14265332.36	39°17'2.3147"N	81°00'41.8985"W	1078.87	252.785	1.13	-0.74	3.17	
5002.00	16.710	252.900	4856.02	-33.16	-327.95	-1056.05	1637097.92	14265323.72	39°17'2.2292"N	81°00'42.2230"W	1105.80	252.748	1.79	1.52	3.47	
5096.00	16.240	251.350	4946.16	-33.67	-336.12	-1081.42	1637072.56	14265315.54	39°17'2.1483"N	81°00'42.5456"W	1132.45	252.734	0.68	-0.50	-1.65	
5190.00	15.030	249.250	5036.68	-33.37	-344.65	-1105.27	1637048.72	14265307.02	39°17'2.0641"N	81°00'42.8490"W	1157.76	252.682	1.42	-1.29	-2.23	
5285.00	18.300	255.230	5127.69	-34.08	-352.81	-1131.22	1637022.78	14265298.86	39°17'1.9833"N	81°00'43.1790"W	1184.97	252.678	3.88	3.44	6.29	
5380.00	18.180	254.290	5217.91	-36.01	-360.63	-1159.91	1636994.10	14265291.04	39°17'1.9060"N	81°00'43.5438"W	1214.68	252.729	0.33	-0.13	-0.99	



Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'

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Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

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5474.00	16.370	249.850	5307.67	-36.57	-369.16	-1186.47	1636967.56	14265282.51	39°17'1.8216"N	81°00'43.8815"W	1242.57	252.717	2.38	-1.93	-4.72	
5568.00	16.680	248.390	5397.79	-35.68	-378.70	-1211.45	1636942.59	14265272.99	39°17'1.7274"N	81°00'44.1991"W	1269.26	252.641	0.55	0.33	-1.55	
5663.00	17.360	246.530	5488.63	-33.94	-389.36	-1237.12	1636916.93	14265262.32	39°17'1.6219"N	81°00'44.5256"W	1296.95	252.530	0.92	0.72	-1.96	
5757.00	18.060	236.610	5578.20	-29.21	-402.97	-1262.16	1636891.90	14265248.72	39°17'1.4874"N	81°00'44.8440"W	1324.92	252.293	3.29	0.74	-10.55	
5851.00	24.750	215.790	5665.79	-14.19	-427.01	-1285.89	1636868.18	14265224.69	39°17'1.2498"N	81°00'45.1458"W	1354.94	251.630	10.67	7.12	-22.15	
5893.00	27.690	211.340	5703.46	-2.88	-442.48	-1296.11	1636857.96	14265209.23	39°17'1.0968"N	81°00'45.2757"W	1369.56	251.151	8.42	7.00	-10.60	BH Lucida <8-1/2"> (5851')(5893'-26582')
5987.00	29.350	192.500	5786.22	30.79	-483.71	-1312.49	1636841.59	14265168.01	39°17'0.6893"N	81°00'45.4840"W	1398.79	249.769	9.69	1.77	-20.04	
6081.00	29.680	174.260	5868.19	73.18	-529.45	-1315.16	1636838.92	14265122.29	39°17'0.2372"N	81°00'45.5178"W	1417.73	248.071	9.54	0.35	-19.40	
6175.00	37.370	161.910	5946.59	124.49	-579.86	-1303.94	1636850.13	14265071.90	39°16'59.7390"N	81°00'45.3751"W	1427.06	246.025	10.90	8.18	-13.14	
6232.00†	41.859	160.519	5990.49	160.82	-614.25	-1292.22	1636861.85	14265037.53	39°16'59.3991"N	81°00'45.2260"W	1430.78	244.576	8.03	7.88	-2.44	Sycamore: 6232' MD
6270.00	44.860	159.720	6018.11	186.91	-638.78	-1283.34	1636870.72	14265013.01	39°16'59.1567"N	81°00'45.1130"W	1433.53	243.538	8.03	7.90	-2.10	
6362.00†	52.181	159.195	6079.01	255.76	-703.27	-1259.16	1636894.90	14264948.54	39°16'58.5193"N	81°00'44.8053"W	1442.25	240.815	7.97	7.96	-0.57	Middlesex: 6362' MD
6365.00	52.420	159.180	6080.84	258.13	-705.49	-1258.31	1636895.74	14264946.32	39°16'58.4974"N	81°00'44.7946"W	1442.59	240.722	7.97	7.96	-0.51	
6459.00	59.940	158.920	6133.12	336.12	-778.37	-1230.40	1636923.64	14264873.47	39°16'57.7771"N	81°00'44.4395"W	1455.94	237.682	8.00	8.00	-0.28	
6553.00	68.190	159.040	6174.20	420.53	-857.21	-1200.11	1636953.92	14264794.66	39°16'56.9979"N	81°00'44.0542"W	1474.81	234.463	8.78	8.78	0.13	
6574.00†	68.890	159.586	6181.88	440.06	-875.49	-1193.21	1636960.82	14264776.39	39°16'56.8172"N	81°00'43.9663"W	1479.94	233.731	4.12	3.33	2.60	Burkett: 6574' MD
6638.00†	71.034	161.219	6203.81	500.18	-932.13	-1173.05	1636980.97	14264719.77	39°16'56.2574"N	81°00'43.7099"W	1498.30	231.529	4.12	3.35	2.55	Tully: 6638' MD
6648.00	71.370	161.470	6207.03	509.65	-941.10	-1170.02	1636984.00	14264710.81	39°16'56.1688"N	81°00'43.6713"W	1501.54	231.189	4.12	3.36	2.51	
6657.00†	72.008	161.444	6209.86	518.19	-949.20	-1167.30	1636986.72	14264702.71	39°16'56.0887"N	81°00'43.6368"W	1504.52	230.883	7.09	7.08	-0.29	Marcellus POE: 6657' MD
6742.00	78.030	161.210	6231.82	600.26	-1026.95	-1141.02	1637012.98	14264624.99	39°16'55.3203"N	81°00'43.3024"W	1535.11	228.012	7.09	7.09	-0.28	
6836.00	84.300	161.530	6246.25	693.10	-1114.93	-1111.37	1637042.63	14264537.05	39°16'54.4508"N	81°00'42.9252"W	1574.23	224.908	6.68	6.67	0.34	
6931.00	90.060	161.190	6250.93	787.94	-1204.80	-1081.05	1637072.93	14264447.22	39°16'53.5626"N	81°00'42.5395"W	1618.71	221.901	6.07	6.06	-0.36	
7025.00	89.600	161.130	6251.20	881.94	-1293.76	-1050.70	1637103.27	14264358.29	39°16'52.6833"N	81°00'42.1533"W	1666.67	219.081	0.49	-0.49	-0.06	
7120.00	89.600	161.550	6251.87	976.94	-1383.77	-1020.30	1637133.66	14264268.32	39°16'51.7938"N	81°00'41.7667"W	1719.25	216.403	0.44	0.00	0.44	
7214.00	89.350	161.310	6252.73	1070.93	-1472.87	-990.37	1637163.58	14264179.25	39°16'50.9132"N	81°00'41.3858"W	1774.87	213.917	0.37	-0.27	-0.26	
7308.00	89.320	161.350	6253.82	1164.92	-1561.92	-960.28	1637193.66	14264090.24	39°16'50.0331"N	81°00'41.0031"W	1833.50	211.584	0.05	-0.03	0.04	
7403.00	89.290	161.290	6254.97	1259.92	-1651.90	-929.86	1637224.07	14264000.29	39°16'49.1437"N	81°00'40.6160"W	1895.63	209.375	0.07	-0.03	-0.06	
7498.00	89.570	161.080	6255.92	1354.91	-1741.82	-899.22	1637254.69	14263910.41	39°16'48.2550"N	81°00'40.2263"W	1960.24	207.305	0.37	0.29	-0.22	
7592.00	89.690	161.430	6256.52	1448.91	-1830.84	-869.01	1637284.89	14263821.43	39°16'47.3753"N	81°00'39.8420"W	2026.61	205.392	0.39	0.13	0.37	
7687.00	88.550	161.500	6257.98	1543.89	-1920.90	-838.82	1637315.07	14263731.41	39°16'46.4852"N	81°00'39.4579"W	2096.06	203.590	1.20	-1.20	0.07	

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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
7781.00	90.310	160.580	6258.92	1637.88	-2009.79	-808.28	1637345.60	14263642.55	39°16'45.6066"N	81°00'39.0694"W	2166.23	201.909	2.11	1.87	-0.98	
7875.00	89.850	160.780	6258.79	1731.88	-2098.49	-777.18	1637376.68	14263553.88	39°16'44.7299"N	81°00'38.6738"W	2237.78	200.322	0.53	-0.49	0.21	
7970.00	90.280	160.740	6258.68	1826.88	-2188.19	-745.87	1637407.97	14263464.22	39°16'43.8435"N	81°00'38.2756"W	2311.82	198.822	0.45	0.45	-0.04	
8065.00	90.220	161.320	6258.26	1921.88	-2278.03	-714.99	1637438.84	14263374.42	39°16'42.9555"N	81°00'37.8827"W	2387.60	197.425	0.61	-0.06	0.61	
8159.00	89.630	161.060	6258.39	2015.88	-2367.00	-684.69	1637469.14	14263285.48	39°16'42.0761"N	81°00'37.4972"W	2464.04	196.133	0.69	-0.63	-0.28	
8253.00	89.720	160.880	6258.92	2109.88	-2455.87	-654.04	1637499.78	14263196.65	39°16'41.1979"N	81°00'37.1073"W	2541.46	194.913	0.21	0.10	-0.19	
8348.00	89.420	161.150	6259.63	2204.87	-2545.70	-623.13	1637530.67	14263106.86	39°16'40.3101"N	81°00'36.7142"W	2620.85	193.754	0.42	-0.32	0.28	
8442.00	89.350	160.310	6260.64	2298.87	-2634.42	-592.11	1637561.68	14263018.17	39°16'39.4331"N	81°00'36.3196"W	2700.14	192.667	0.90	-0.07	-0.89	
8536.00	90.620	161.030	6260.67	2392.86	-2723.12	-561.00	1637592.78	14262929.50	39°16'38.5565"N	81°00'35.9238"W	2780.31	191.641	1.55	1.35	0.77	
8631.00	89.320	160.780	6260.72	2487.86	-2812.89	-529.92	1637623.84	14262839.77	39°16'37.6693"N	81°00'35.5285"W	2862.37	190.669	1.39	-1.37	-0.26	
8725.00	90.090	161.110	6261.20	2581.86	-2901.74	-499.23	1637654.52	14262750.96	39°16'36.7912"N	81°00'35.1381"W	2944.37	189.762	0.89	0.82	0.35	
8820.00	90.060	161.540	6261.08	2676.86	-2991.74	-468.81	1637684.93	14262660.99	39°16'35.9017"N	81°00'34.7512"W	3028.25	188.906	0.45	-0.03	0.45	
9008.00	89.570	160.950	6261.68	2864.85	-3169.75	-408.37	1637745.35	14262483.05	39°16'34.1423"N	81°00'33.9823"W	3195.95	187.341	0.41	-0.26	-0.31	
9103.00	89.510	160.830	6262.45	2959.85	-3259.52	-377.27	1637776.43	14262393.32	39°16'33.2551"N	81°00'33.5867"W	3281.28	186.602	0.14	-0.06	-0.13	
9197.00	89.720	161.000	6263.08	3053.85	-3348.35	-346.53	1637807.16	14262304.53	39°16'32.3772"N	81°00'33.1958"W	3366.23	185.909	0.29	0.22	0.18	
9292.00	89.510	160.820	6263.72	3148.84	-3438.12	-315.46	1637838.21	14262214.79	39°16'31.4899"N	81°00'32.8006"W	3452.56	185.242	0.29	-0.22	-0.19	
9387.00	88.980	159.640	6264.97	3243.82	-3527.51	-283.33	1637870.33	14262125.44	39°16'30.6064"N	81°00'32.3919"W	3538.87	184.592	1.36	-0.56	-1.24	
9481.00	90.310	161.640	6265.55	3337.81	-3616.19	-252.18	1637901.48	14262036.80	39°16'29.7300"N	81°00'31.9956"W	3624.97	183.989	2.56	1.41	2.13	
9575.00	89.450	161.460	6265.75	3431.81	-3705.35	-222.43	1637931.21	14261947.66	39°16'28.8487"N	81°00'31.6172"W	3712.02	183.435	0.93	-0.91	-0.19	
9670.00	89.750	161.140	6266.41	3526.80	-3795.34	-191.97	1637961.66	14261857.72	39°16'27.9594"N	81°00'31.2298"W	3800.19	182.896	0.46	0.32	-0.34	
9765.00	88.950	160.630	6267.49	3621.80	-3885.09	-160.86	1637992.75	14261768.00	39°16'27.0723"N	81°00'30.8342"W	3888.42	182.371	1.00	-0.84	-0.54	
9859.00	89.320	160.720	6268.91	3715.78	-3973.79	-129.76	1638023.84	14261679.34	39°16'26.1957"N	81°00'30.4386"W	3975.90	181.870	0.41	0.39	0.10	
9953.00	89.600	161.420	6269.79	3809.78	-4062.70	-99.27	1638054.32	14261590.47	39°16'25.3169"N	81°00'30.0507"W	4063.91	181.400	0.80	0.30	0.74	
10048.00	89.630	161.050	6270.43	3904.78	-4152.65	-68.71	1638084.87	14261500.55	39°16'24.4279"N	81°00'29.6620"W	4153.21	180.948	0.39	0.03	-0.39	
10142.00	89.940	161.560	6270.78	3998.77	-4241.68	-38.58	1638114.99	14261411.55	39°16'23.5479"N	81°00'29.2788"W	4241.86	180.521	0.63	0.33	0.54	
10236.00	89.970	160.240	6270.86	4092.77	-4330.51	-7.82	1638145.73	14261322.76	39°16'22.6700"N	81°00'28.8876"W	4330.52	180.103	1.40	0.03	-1.40	
10331.00	89.780	161.350	6271.07	4187.77	-4420.22	23.43	1638176.97	14261233.09	39°16'21.7834"N	81°00'28.4902"W	4420.28	179.696	1.19	-0.20	1.17	
10425.00	89.570	160.610	6271.60	4281.77	-4509.09	54.06	1638207.59	14261144.26	39°16'20.9051"N	81°00'28.1005"W	4509.41	179.313	0.82	-0.22	-0.79	
10519.00	90.180	159.920	6271.80	4375.76	-4597.56	85.80	1638239.32	14261055.81	39°16'20.0306"N	81°00'27.6969"W	4598.36	178.931	0.98	0.65	-0.73	
10614.00	89.750	161.060	6271.86	4470.75	-4687.11	117.53	1638271.03	14260966.31	39°16'19.1456"N	81°00'27.2933"W	4688.58	178.564	1.28	-0.45	1.20	

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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
10708.00	89.540	161.520	6272.44	4564.75	-4776.14	147.68	1638301.17	14260877.31	39°16'18.2657"N	81°00'26.9099"W	4778.42	178.229	0.54	-0.22	0.49	
10803.00	89.110	161.240	6273.56	4659.74	-4866.16	178.01	1638331.49	14260787.33	39°16'17.3760"N	81°00'26.5241"W	4869.41	177.905	0.54	-0.45	-0.29	
10897.00	89.080	160.820	6275.05	4753.73	-4955.04	208.57	1638362.03	14260698.48	39°16'16.4975"N	81°00'26.1355"W	4959.43	177.590	0.45	-0.03	-0.45	
10992.00	89.820	159.220	6275.96	4848.70	-5044.32	241.02	1638394.48	14260609.24	39°16'15.6151"N	81°00'25.7227"W	5050.07	177.264	1.86	0.78	-1.68	
11086.00	88.060	161.000	6277.70	4942.67	-5132.69	273.00	1638426.44	14260520.91	39°16'14.7417"N	81°00'25.3161"W	5139.94	176.955	2.66	-1.87	1.89	
11181.00	91.020	161.020	6278.46	5037.66	-5222.50	303.91	1638457.33	14260431.13	39°16'13.8540"N	81°00'24.9230"W	5231.34	176.670	3.12	3.12	0.02	
11275.00	89.630	161.170	6277.93	5131.65	-5311.43	334.36	1638487.78	14260342.24	39°16'12.9751"N	81°00'24.5357"W	5321.94	176.398	1.49	-1.48	0.16	
11370.00	89.020	159.720	6279.05	5226.64	-5400.94	366.16	1638519.56	14260252.76	39°16'12.0905"N	81°00'24.1313"W	5413.34	176.122	1.66	-0.64	-1.53	
11464.00	90.680	160.600	6279.29	5320.62	-5489.36	398.06	1638551.45	14260164.38	39°16'11.2166"N	81°00'23.7256"W	5503.77	175.852	2.00	1.77	0.94	
11559.00	89.940	160.850	6278.78	5415.62	-5579.03	429.42	1638582.79	14260074.74	39°16'10.3303"N	81°00'23.3268"W	5595.53	175.599	0.82	-0.78	0.26	
11653.00	89.970	160.930	6278.85	5509.62	-5667.85	460.19	1638613.55	14259985.96	39°16'9.4525"N	81°00'22.9355"W	5686.50	175.358	0.09	0.03	0.09	
11748.00	89.820	161.370	6279.03	5604.62	-5757.75	490.88	1638644.24	14259896.09	39°16'8.5639"N	81°00'22.5451"W	5778.64	175.127	0.49	-0.16	0.46	
11842.00	89.660	160.890	6279.45	5698.62	-5846.70	521.28	1638674.63	14259807.18	39°16'7.6848"N	81°00'22.1585"W	5869.89	174.905	0.54	-0.17	-0.51	
11937.00	89.630	160.880	6280.04	5793.61	-5936.46	552.39	1638705.72	14259717.46	39°16'6.7976"N	81°00'21.7629"W	5962.11	174.684	0.03	-0.03	-0.01	
12031.00	89.600	160.750	6280.67	5887.61	-6025.24	583.28	1638736.60	14259628.71	39°16'5.9202"N	81°00'21.3701"W	6053.41	174.471	0.14	-0.03	-0.14	
12125.00	89.720	161.900	6281.23	5981.61	-6114.29	613.38	1638766.68	14259539.70	39°16'5.0401"N	81°00'20.9873"W	6144.98	174.271	1.23	0.13	1.22	
12219.00	89.750	161.680	6281.67	6075.60	-6203.58	642.76	1638796.05	14259450.45	39°16'4.1576"N	81°00'20.6137"W	6236.79	174.085	0.24	0.03	-0.23	
12314.00	89.510	161.700	6282.28	6170.59	-6293.77	672.60	1638825.88	14259360.29	39°16'3.2662"N	81°00'20.2342"W	6329.60	173.900	0.25	-0.25	0.02	
12408.00	89.780	162.200	6282.86	6264.57	-6383.14	701.72	1638854.99	14259270.96	39°16'2.3829"N	81°00'19.8638"W	6421.59	173.726	0.60	0.29	0.53	
12502.00	89.660	162.050	6283.32	6358.56	-6472.60	730.58	1638883.83	14259181.53	39°16'1.4987"N	81°00'19.4969"W	6513.70	173.560	0.20	-0.13	-0.16	
12597.00	89.570	161.350	6283.96	6453.55	-6562.79	760.41	1638913.65	14259091.38	39°16'0.6073"N	81°00'19.1176"W	6606.70	173.391	0.74	-0.09	-0.74	
12691.00	89.630	161.900	6284.62	6547.54	-6652.00	790.04	1638943.27	14259002.21	39°15'59.7256"N	81°00'18.7408"W	6698.75	173.227	0.59	0.06	0.59	
12785.00	89.750	161.870	6285.13	6641.53	-6741.34	819.26	1638972.48	14258912.90	39°15'58.8426"N	81°00'18.3691"W	6790.94	173.071	0.13	0.13	-0.03	
12880.00	89.780	161.540	6285.52	6736.52	-6831.53	849.08	1639002.29	14258822.74	39°15'57.9511"N	81°00'17.9899"W	6884.10	172.915	0.35	0.03	-0.35	
12974.00	89.720	161.330	6285.93	6830.52	-6920.64	879.01	1639032.21	14258733.67	39°15'57.0704"N	81°00'17.6094"W	6976.24	172.761	0.23	-0.06	-0.22	
13069.00	89.750	161.870	6286.37	6925.51	-7010.78	909.00	1639062.18	14258643.57	39°15'56.1795"N	81°00'17.2280"W	7069.47	172.612	0.57	0.03	0.57	
13163.00	89.970	162.120	6286.59	7019.50	-7100.18	938.05	1639091.23	14258554.21	39°15'55.2959"N	81°00'16.8586"W	7161.88	172.474	0.35	0.23	0.27	
13257.00	89.750	162.240	6286.82	7113.48	-7189.67	966.82	1639119.98	14258464.75	39°15'54.4115"N	81°00'16.4928"W	7254.38	172.341	0.27	-0.23	0.13	
13352.00	90.000	161.960	6287.03	7208.46	-7280.07	996.02	1639149.17	14258374.39	39°15'53.5180"N	81°00'16.1215"W	7347.89	172.209	0.40	0.26	-0.29	
13446.00	91.940	162.800	6285.44	7302.42	-7369.64	1024.47	1639177.61	14258284.85	39°15'52.6327"N	81°00'15.7597"W	7440.51	172.086	2.25	2.06	0.89	

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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
13541.00	90.430	162.220	6283.48	7397.36	-7460.23	1053.01	1639206.14	14258194.30	39°15'51.7374"N	81°00'15.3968"W	7534.18	171.966	1.70	-1.59	-0.61	
13636.00	89.750	161.070	6283.33	7492.35	-7550.39	1082.93	1639236.04	14258104.17	39°15'50.8462"N	81°00'15.0164"W	7627.66	171.838	1.41	-0.72	-1.21	
13730.00	89.940	160.870	6283.58	7586.35	-7639.25	1113.58	1639266.88	14258015.35	39°15'49.9679"N	81°00'14.6266"W	7719.99	171.706	0.29	0.20	-0.21	
13825.00	90.430	161.800	6283.27	7681.35	-7729.26	1143.98	1639297.07	14257925.38	39°15'49.0784"N	81°00'14.2401"W	7813.46	171.581	1.11	0.52	0.98	
13919.00	89.720	162.020	6283.15	7775.34	-7818.61	1173.17	1639326.24	14257836.06	39°15'48.1953"N	81°00'13.8689"W	7906.13	171.467	0.79	-0.76	0.23	
14013.00	89.720	161.980	6283.61	7869.32	-7908.01	1202.21	1639356.28	14257746.70	39°15'47.3117"N	81°00'13.4996"W	7998.87	171.356	0.04	0.00	-0.04	
14107.00	89.750	162.080	6284.05	7963.31	-7997.42	1231.21	1639384.27	14257657.32	39°15'46.4279"N	81°00'13.1308"W	8091.64	171.248	0.11	0.03	0.11	
14202.00	89.290	161.780	6284.84	8058.29	-8087.73	1260.68	1639413.72	14257567.05	39°15'45.5353"N	81°00'12.7562"W	8185.40	171.140	0.58	-0.48	-0.32	
14296.00	89.230	161.820	6286.06	8152.28	-8177.02	1290.04	1639443.07	14257477.80	39°15'44.6528"N	81°00'12.3829"W	8278.16	171.035	0.08	-0.06	0.04	
14391.00	89.260	161.890	6287.31	8247.26	-8267.29	1319.62	1639472.64	14257387.58	39°15'43.7607"N	81°00'12.0067"W	8371.95	170.931	0.08	0.03	0.07	
14485.00	88.800	162.260	6288.90	8341.23	-8356.71	1348.55	1639501.55	14257298.18	39°15'42.8768"N	81°00'11.6390"W	8464.82	170.833	0.63	-0.49	0.39	
14580.00	89.350	161.520	6290.43	8436.20	-8446.99	1378.07	1639531.07	14257207.93	39°15'41.9845"N	81°00'11.2635"W	8558.67	170.734	0.97	0.58	-0.78	
14674.00	89.910	162.000	6291.04	8530.19	-8536.27	1407.49	1639560.48	14257118.69	39°15'41.1022"N	81°00'10.8895"W	8651.53	170.637	0.78	0.60	0.51	
14768.00	89.420	161.620	6291.59	8624.18	-8625.57	1436.84	1639589.81	14257029.43	39°15'40.2195"N	81°00'10.5164"W	8744.42	170.543	0.66	-0.52	-0.40	
14862.00	90.030	160.160	6292.04	8718.18	-8714.39	1467.61	1639620.57	14256940.65	39°15'39.3417"N	81°00'10.1251"W	8837.10	170.440	1.68	0.65	-1.55	
14956.00	89.970	162.030	6292.04	8812.17	-8803.31	1498.06	1639651.01	14256851.76	39°15'38.4628"N	81°00'9.7379"W	8929.86	170.342	1.99	-0.06	1.99	
15051.00	89.850	161.730	6292.19	8907.16	-8893.60	1527.61	1639680.55	14256761.51	39°15'37.5704"N	81°00'9.3622"W	9023.84	170.254	0.34	-0.13	-0.32	
15145.00	89.660	161.770	6292.59	9001.15	-8982.87	1557.05	1639709.97	14256672.27	39°15'36.6881"N	81°00'8.9880"W	9116.82	170.166	0.21	-0.20	0.04	
15240.00	89.750	161.570	6293.08	9096.15	-9073.05	1586.92	1639739.83	14256582.13	39°15'35.7968"N	81°00'8.6081"W	9210.78	170.079	0.23	0.09	-0.21	
15334.00	90.430	161.950	6292.93	9190.14	-9162.33	1616.34	1639769.24	14256492.89	39°15'34.9144"N	81°00'8.2340"W	9303.80	169.995	0.83	0.72	0.40	
15428.00	90.550	160.030	6292.13	9284.13	-9251.19	1646.96	1639799.85	14256404.06	39°15'34.0361"N	81°00'7.8448"W	9396.65	169.906	2.05	0.13	-2.04	
15523.00	90.460	160.830	6291.29	9379.12	-9340.70	1678.78	1639831.65	14256314.59	39°15'33.1514"N	81°00'7.4402"W	9490.36	169.811	0.85	-0.09	0.84	
15617.00	90.250	160.590	6290.71	9473.12	-9429.42	1709.83	1639862.69	14256225.90	39°15'32.2745"N	81°00'7.0455"W	9583.19	169.722	0.34	-0.22	-0.26	
15711.00	90.920	160.580	6289.75	9567.11	-9518.07	1741.08	1639893.93	14256137.29	39°15'31.3984"N	81°00'6.6482"W	9676.00	169.634	0.71	0.71	-0.01	
15806.00	89.570	159.340	6289.34	9662.09	-9607.31	1773.63	1639926.47	14256048.08	39°15'30.5183"N	81°00'6.2344"W	9769.68	169.540	1.93	-1.42	-1.31	
15900.00	90.220	160.060	6289.51	9756.06	-9695.47	1806.24	1639959.06	14255959.95	39°15'29.6449"N	81°00'5.8198"W	9862.29	169.447	1.03	0.69	0.77	
15994.00	90.310	160.560	6289.08	9850.05	-9783.98	1837.91	1639990.72	14255871.49	39°15'28.7702"N	81°00'5.4171"W	9955.10	169.361	0.54	0.10	0.53	
16088.00	90.370	160.660	6288.52	9944.05	-9872.64	1869.12	1640021.92	14255782.86	39°15'27.8939"N	81°00'5.0204"W	10048.02	169.279	0.12	0.06	0.11	
16182.00	90.340	161.140	6287.94	10038.05	-9961.47	1899.88	1640052.66	14255694.07	39°15'27.0160"N	81°00'4.6293"W	10141.02	169.202	0.51	-0.03	0.51	
16276.00	90.430	160.900	6287.31	10132.04	-10050.35	1930.45	1640083.22	14255605.22	39°15'26.1374"N	81°00'4.2407"W	10234.07	169.127	0.27	0.10	-0.26	

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Lambert Unit 1H AWP Proj: 26608'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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
16370.00	90.030	160.590	6286.93	10226.04	-10139.09	1961.45	1640114.21	14255516.51	39°15'25.2603"N	81°00'3.8466"W	10327.08	169.051	0.54	-0.43	-0.33	
16465.00	90.280	160.580	6286.67	10321.04	-10228.69	1993.03	1640145.77	14255426.95	39°15'24.3748"N	81°00'3.4451"W	10421.05	168.974	0.26	0.26	-0.01	
16559.00	90.180	160.510	6286.30	10415.03	-10317.32	2024.33	1640177.07	14255338.35	39°15'23.4987"N	81°00'3.0471"W	10514.04	168.899	0.13	-0.11	-0.07	
16654.00	89.450	160.950	6286.60	10510.03	-10407.00	2055.68	1640208.41	14255248.71	39°15'22.6124"N	81°00'2.6485"W	10608.09	168.826	0.90	-0.77	0.46	
16748.00	90.250	160.890	6286.85	10604.03	-10495.83	2086.41	1640239.12	14255159.91	39°15'21.7344"N	81°00'2.2579"W	10701.20	168.757	0.85	0.85	-0.06	
16842.00	89.480	160.830	6287.07	10698.03	-10584.64	2117.23	1640269.93	14255071.15	39°15'20.8567"N	81°00'1.8661"W	10794.31	168.688	0.82	-0.82	-0.06	
16937.00	89.780	160.800	6287.68	10793.03	-10674.36	2148.45	1640301.14	14254981.46	39°15'19.9699"N	81°00'1.4692"W	10888.42	168.620	0.32	0.32	-0.03	
17031.00	89.720	160.930	6288.09	10887.03	-10763.17	2179.26	1640331.94	14254892.69	39°15'19.0922"N	81°00'1.0775"W	10981.57	168.554	0.15	-0.06	0.14	
17125.00	89.720	160.660	6288.55	10981.02	-10851.93	2210.18	1640362.84	14254803.96	39°15'18.2148"N	81°00'0.6845"W	11074.72	168.488	0.29	0.00	-0.29	
17220.00	89.540	160.780	6289.17	11076.02	-10941.60	2241.55	1640394.20	14254714.33	39°15'17.3285"N	81°00'0.2857"W	11168.85	168.422	0.23	-0.19	0.13	
17314.00	89.510	160.830	6289.95	11170.02	-11030.37	2272.45	1640425.09	14254625.59	39°15'16.4511"N	80°59'59.8929"W	11262.02	168.359	0.06	-0.03	0.05	
17408.00	89.630	160.620	6290.65	11264.01	-11119.10	2303.48	1640456.11	14254536.90	39°15'15.5742"N	80°59'59.4984"W	11355.20	168.296	0.26	0.13	-0.22	
17502.00	89.630	160.560	6291.26	11358.01	-11207.76	2334.72	1640487.33	14254448.28	39°15'14.6979"N	80°59'59.1013"W	11448.35	168.233	0.06	0.00	-0.06	
17596.00	89.630	160.500	6291.87	11452.00	-11296.38	2366.05	1640518.65	14254359.69	39°15'13.8220"N	80°59'58.7030"W	11541.51	168.170	0.06	0.00	-0.06	
17691.00	89.380	160.870	6292.69	11547.00	-11386.03	2397.47	1640550.06	14254270.08	39°15'12.9359"N	80°59'58.3036"W	11635.70	168.109	0.47	-0.26	0.39	
17785.00	89.690	161.020	6293.45	11640.99	-11474.88	2428.16	1640580.74	14254181.27	39°15'12.0578"N	80°59'57.9135"W	11728.97	168.052	0.37	0.33	0.16	
17879.00	90.030	160.290	6293.68	11734.99	-11563.57	2459.30	1640611.86	14254092.61	39°15'11.1811"N	80°59'57.5177"W	11822.19	167.993	0.86	0.36	-0.78	
17974.00	89.630	160.610	6293.96	11829.98	-11653.09	2491.09	1640643.64	14254003.12	39°15'10.2963"N	80°59'57.1136"W	11916.38	167.933	0.54	-0.42	0.34	
18068.00	90.120	160.920	6294.17	11923.98	-11741.84	2522.06	1640674.59	14253914.41	39°15'9.4191"N	80°59'56.7200"W	12009.65	167.878	0.62	0.52	0.33	
18163.00	90.370	160.830	6293.76	12018.98	-11831.60	2553.18	1640705.70	14253824.69	39°15'8.5320"N	80°59'56.3243"W	12103.94	167.823	0.28	0.26	-0.09	
18257.00	91.110	161.200	6292.55	12112.97	-11920.48	2583.76	1640736.27	14253735.85	39°15'7.6535"N	80°59'55.9357"W	12197.28	167.770	0.88	0.79	0.39	
18352.00	90.310	160.670	6291.37	12207.96	-12010.26	2614.79	1640767.28	14253646.10	39°15'6.7661"N	80°59'55.5413"W	12291.60	167.718	1.01	-0.84	-0.56	
18446.00	89.910	160.990	6291.19	12301.96	-12099.04	2645.65	1640798.14	14253557.35	39°15'5.8886"N	80°59'55.1489"W	12384.92	167.665	0.54	-0.43	0.34	
18540.00	89.690	159.310	6291.52	12395.95	-12187.46	2677.57	1640830.04	14253468.97	39°15'5.0147"N	80°59'54.7432"W	12478.12	167.609	1.80	-0.23	-1.79	
18635.00	89.690	160.870	6292.03	12490.93	-12276.77	2709.92	1640862.38	14253379.69	39°15'4.1319"N	80°59'54.3320"W	12572.30	167.552	1.64	0.00	1.64	
18729.00	89.660	159.500	6292.56	12584.92	-12365.20	2741.78	1640894.23	14253291.30	39°15'3.2579"N	80°59'53.9270"W	12665.53	167.498	1.46	-0.03	-1.46	
18824.00	89.450	161.320	6293.30	12679.90	-12454.70	2773.63	1640928.07	14253201.84	39°15'2.3733"N	80°59'53.5222"W	12759.80	167.445	1.93	-0.22	1.92	
18918.00	90.030	161.030	6293.73	12773.90	-12543.67	2803.96	1640956.39	14253112.90	39°15'1.4940"N	80°59'53.1366"W	12853.24	167.399	0.69	0.62	-0.31	
19013.00	89.690	160.800	6293.96	12868.90	-12633.45	2835.03	1640987.44	14253023.16	39°15'0.6066"N	80°59'52.7418"W	12947.64	167.352	0.43	-0.36	-0.24	
19107.00	89.420	160.000	6294.69	12962.89	-12722.00	2866.56	1641018.96	14252934.65	39°14'59.7314"N	80°59'52.3410"W	13040.95	167.302	0.90	-0.29	-0.85	

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Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
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Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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
19202.00	89.690	160.420	6295.43	13057.88	-12811.38	2898.72	1641051.11	14252845.30	39°14'58.8479"N	80°59'51.9322"W	13135.22	167.251	0.53	0.28	0.44	
19296.00	89.080	160.340	6296.44	13151.87	-12899.92	2930.28	1641082.65	14252756.80	39°14'57.9728"N	80°59'51.5311"W	13228.55	167.202	0.65	-0.65	-0.09	
19391.00	91.200	160.520	6296.21	13246.86	-12989.43	2962.10	1641114.46	14252667.32	39°14'57.0882"N	80°59'51.1266"W	13322.89	167.154	2.24	2.23	0.19	
19485.00	89.750	160.940	6295.43	13340.85	-13078.16	2993.12	1641145.47	14252578.63	39°14'56.2112"N	80°59'50.7324"W	13416.29	167.109	1.61	-1.54	0.45	
19579.00	90.220	161.130	6295.45	13434.85	-13167.05	3023.67	1641176.01	14252489.77	39°14'55.3325"N	80°59'50.3441"W	13509.77	167.067	0.54	0.50	0.20	
19673.00	90.180	160.940	6295.12	13528.85	-13255.95	3054.22	1641206.54	14252400.91	39°14'54.4539"N	80°59'49.9558"W	13603.25	167.025	0.21	-0.04	-0.20	
19768.00	89.850	161.350	6295.10	13623.85	-13345.85	3084.92	1641237.23	14252311.04	39°14'53.5653"N	80°59'49.5656"W	13697.75	166.985	0.55	-0.35	0.43	
19862.00	89.260	160.220	6295.83	13717.84	-13434.61	3115.86	1641268.15	14252222.32	39°14'52.6880"N	80°59'49.1724"W	13791.20	166.942	1.36	-0.63	-1.20	
19957.00	89.570	161.080	6296.80	13812.83	-13524.24	3147.33	1641299.62	14252132.73	39°14'51.8021"N	80°59'48.7724"W	13885.63	166.899	0.96	0.33	0.91	
20051.00	89.350	160.330	6297.68	13906.83	-13612.95	3178.39	1641330.66	14252044.05	39°14'50.9253"N	80°59'48.3776"W	13979.08	166.858	0.83	-0.23	-0.80	
20146.00	90.120	160.180	6298.12	14001.82	-13702.37	3210.48	1641362.74	14251954.67	39°14'50.0415"N	80°59'47.9697"W	14073.45	166.813	0.83	0.81	-0.16	
20240.00	89.570	160.990	6298.38	14095.81	-13791.02	3241.73	1641393.98	14251866.05	39°14'49.1653"N	80°59'47.5726"W	14166.90	166.772	1.04	-0.59	0.86	
20335.00	90.060	160.490	6298.68	14190.81	-13880.70	3273.07	1641425.30	14251776.41	39°14'48.2789"N	80°59'47.1744"W	14261.38	166.732	0.74	0.52	-0.53	
20428.00	89.660	160.660	6298.91	14283.81	-13968.41	3303.99	1641456.22	14251688.74	39°14'47.4120"N	80°59'46.7813"W	14353.84	166.692	0.47	-0.43	0.18	
20523.00	89.510	160.750	6299.60	14378.80	-14058.07	3335.39	1641487.59	14251599.11	39°14'46.5258"N	80°59'46.3823"W	14448.32	166.653	0.18	-0.16	0.09	
20617.00	89.630	161.200	6300.30	14472.80	-14146.93	3366.03	1641518.22	14251510.29	39°14'45.6475"N	80°59'45.9929"W	14541.86	166.616	0.50	0.13	0.48	
20711.00	89.320	160.800	6301.17	14566.80	-14235.81	3396.63	1641548.81	14251421.45	39°14'44.7691"N	80°59'45.6040"W	14635.41	166.580	0.54	-0.33	-0.43	
20805.00	89.910	159.630	6301.80	14660.78	-14324.25	3428.45	1641580.62	14251333.04	39°14'43.8948"N	80°59'45.1996"W	14728.83	166.540	1.39	0.63	-1.24	
20900.00	89.570	160.600	6302.23	14755.77	-14413.59	3460.76	1641612.92	14251243.74	39°14'43.0119"N	80°59'44.7890"W	14823.24	166.499	1.08	-0.36	1.02	
20994.00	89.380	160.940	6303.09	14849.76	-14502.34	3491.72	1641643.86	14251155.02	39°14'42.1347"N	80°59'44.3955"W	14916.77	166.463	0.41	-0.20	0.36	
21089.00	89.940	159.240	6303.65	14944.74	-14591.65	3524.07	1641676.20	14251065.74	39°14'41.2519"N	80°59'43.9844"W	15011.18	166.422	1.88	0.59	-1.79	
21183.00	89.850	160.440	6303.83	15038.72	-14679.89	3556.46	1641708.58	14250977.54	39°14'40.3797"N	80°59'43.5727"W	15104.56	166.381	1.28	-0.10	1.28	
21277.00	90.030	160.680	6303.92	15132.72	-14768.53	3587.75	1641739.85	14250888.93	39°14'39.5036"N	80°59'43.1751"W	15198.08	166.346	0.32	0.19	0.26	
21372.00	89.780	160.740	6304.08	15227.72	-14858.20	3619.13	1641771.22	14250799.30	39°14'38.6173"N	80°59'42.7763"W	15292.62	166.311	0.27	-0.26	0.06	
21467.00	90.250	160.680	6304.06	15322.72	-14947.87	3650.51	1641802.60	14250709.67	39°14'37.7311"N	80°59'42.3775"W	15387.17	166.276	0.50	0.49	-0.06	
21561.00	90.370	160.920	6303.55	15416.71	-15036.64	3681.43	1641833.50	14250620.94	39°14'36.8537"N	80°59'41.9846"W	15480.74	166.243	0.29	0.13	0.26	
21655.00	90.430	160.850	6302.89	15510.71	-15125.45	3712.21	1641864.26	14250532.16	39°14'35.9758"N	80°59'41.5934"W	15574.33	166.211	0.10	0.06	-0.07	
21750.00	89.750	160.320	6302.74	15605.71	-15215.05	3743.78	1641895.83	14250442.60	39°14'35.0902"N	80°59'41.1921"W	15668.88	166.177	0.91	-0.72	-0.56	
21844.00	90.340	160.760	6302.67	15699.70	-15303.68	3775.10	1641927.13	14250354.00	39°14'34.2142"N	80°59'40.7942"W	15762.42	166.143	0.78	0.63	0.47	
21939.00	90.460	161.410	6302.01	15794.70	-15393.55	3805.90	1641957.92	14250264.17	39°14'33.3280"N	80°59'40.4029"W	15857.05	166.113	0.70	0.13	0.68	

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (289 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
22033.00	90.310	161.770	6301.37	15888.69	-15482.73	3835.58	1641987.59	14250175.02	39°14'32.4444"N	80°59'40.0256"W	15950.76	166.086	0.41	-0.16	0.38	
22128.00	90.280	161.850	6300.89	15983.68	-15572.98	3865.24	1642017.23	14250084.81	39°14'31.5524"N	80°59'39.6488"W	16045.49	166.061	0.09	-0.03	0.08	
22222.00	90.310	161.810	6300.40	16077.67	-15662.30	3894.55	1642046.53	14249995.53	39°14'30.6696"N	80°59'39.2763"W	16139.24	166.036	0.05	0.03	-0.04	
22317.00	90.740	161.390	6299.53	16172.66	-15752.44	3924.53	1642076.51	14249905.43	39°14'29.7787"N	80°59'38.8952"W	16233.95	166.010	0.63	0.45	-0.44	
22411.00	90.370	161.780	6298.62	16266.65	-15841.62	3954.23	1642106.19	14249816.28	39°14'28.8972"N	80°59'38.5179"W	16327.67	165.985	0.57	-0.39	0.41	
22506.00	90.520	161.800	6297.88	16361.64	-15931.86	3983.91	1642135.86	14249726.08	39°14'28.0053"N	80°59'38.1407"W	16422.41	165.961	0.16	0.16	0.02	
22600.00	90.430	161.970	6297.10	16455.63	-16021.19	4013.14	1642165.08	14249636.78	39°14'27.1223"N	80°59'37.7693"W	16516.17	165.937	0.20	-0.10	0.18	
22694.00	90.180	161.830	6296.60	16549.62	-16110.54	4042.34	1642194.27	14249547.46	39°14'26.2392"N	80°59'37.3982"W	16609.94	165.915	0.30	-0.27	-0.15	
22789.00	90.310	162.100	6296.20	16644.60	-16200.87	4071.75	1642223.67	14249457.17	39°14'25.3463"N	80°59'37.0245"W	16704.71	165.892	0.32	0.14	0.28	
22883.00	90.340	161.840	6295.66	16738.59	-16290.26	4100.85	1642252.75	14249367.82	39°14'24.4628"N	80°59'36.6548"W	16798.49	165.870	0.28	0.03	-0.28	
22977.00	90.180	161.880	6295.24	16832.58	-16379.58	4130.11	1642282.00	14249278.53	39°14'23.5800"N	80°59'36.2829"W	16892.26	165.848	0.18	-0.17	0.04	
23072.00	90.120	161.860	6294.99	16927.57	-16469.87	4159.68	1642311.55	14249188.28	39°14'22.6876"N	80°59'35.9073"W	16987.04	165.826	0.07	-0.06	-0.02	
23166.00	90.280	162.020	6294.66	17021.56	-16559.23	4188.82	1642340.68	14249098.95	39°14'21.8043"N	80°59'35.5370"W	17080.82	165.804	0.24	0.17	0.17	
23261.00	90.090	161.770	6294.35	17116.54	-16649.53	4218.34	1642370.19	14249008.69	39°14'20.9118"N	80°59'35.1619"W	17175.60	165.783	0.33	-0.20	-0.26	
23355.00	91.080	162.310	6293.39	17210.52	-16738.94	4247.32	1642399.16	14248919.32	39°14'20.0280"N	80°59'34.7938"W	17269.39	165.762	1.20	1.05	0.57	
23449.00	90.650	162.050	6291.97	17304.49	-16828.42	4276.09	1642427.92	14248829.87	39°14'19.1436"N	80°59'34.4282"W	17363.20	165.743	0.53	-0.46	-0.28	
23544.00	90.550	161.710	6290.98	17399.48	-16918.71	4305.63	1642457.45	14248739.62	39°14'18.2512"N	80°59'34.0528"W	17457.98	165.722	0.37	-0.11	-0.36	
23638.00	90.490	162.020	6290.13	17493.46	-17008.03	4334.89	1642486.69	14248650.33	39°14'17.3683"N	80°59'33.6810"W	17551.76	165.701	0.34	-0.06	0.33	
23733.00	90.090	161.850	6289.65	17588.45	-17098.35	4364.34	1642516.14	14248560.05	39°14'16.4756"N	80°59'33.3067"W	17646.56	165.681	0.46	-0.42	-0.18	
23828.00	90.150	161.730	6289.45	17683.44	-17188.59	4394.03	1642545.82	14248469.85	39°14'15.5837"N	80°59'32.9295"W	17741.34	165.660	0.14	0.06	-0.13	
23922.00	89.750	161.830	6289.53	17777.43	-17277.88	4423.42	1642575.19	14248380.60	39°14'14.7012"N	80°59'32.5561"W	17835.13	165.640	0.44	-0.43	0.11	
24017.00	89.880	162.040	6289.84	17872.42	-17368.19	4452.88	1642604.64	14248290.32	39°14'13.8085"N	80°59'32.1818"W	17929.93	165.620	0.26	0.14	0.22	
24111.00	89.720	161.790	6290.16	17966.41	-17457.55	4482.06	1642633.81	14248201.00	39°14'12.9253"N	80°59'31.8111"W	18023.73	165.601	0.32	-0.17	-0.27	
24205.00	89.720	161.630	6290.62	18060.40	-17546.80	4511.56	1642663.30	14248111.78	39°14'12.0431"N	80°59'31.4362"W	18117.52	165.581	0.17	0.00	-0.17	
24300.00	89.680	161.970	6291.14	18155.39	-17637.05	4541.23	1642692.96	14248021.57	39°14'11.1511"N	80°59'31.0593"W	18212.31	165.561	0.36	-0.06	0.36	
24394.00	89.750	162.020	6291.62	18249.38	-17726.44	4570.29	1642722.00	14247932.21	39°14'10.2675"N	80°59'30.6901"W	18306.13	165.543	0.11	0.10	0.05	
24583.00	89.630	161.660	6292.64	18438.35	-17906.02	4629.19	1642780.88	14247752.70	39°14'8.4925"N	80°59'29.9417"W	18494.73	165.505	0.20	-0.06	-0.19	
24677.00	89.750	162.000	6293.15	18532.34	-17995.34	4658.50	1642810.18	14247663.43	39°14'7.6097"N	80°59'29.5693"W	18588.54	165.486	0.38	0.13	0.36	
24772.00	89.690	161.840	6293.62	18627.33	-18085.64	4687.99	1642839.65	14247573.16	39°14'6.7171"N	80°59'29.1947"W	18683.35	165.468	0.18	-0.06	-0.17	
24866.00	89.970	161.760	6293.90	18721.32	-18174.94	4717.35	1642869.00	14247483.90	39°14'5.8345"N	80°59'28.8217"W	18777.16	165.450	0.31	0.30	-0.09	

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (289 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
25054.00	89.970	161.790	6293.99	18909.31	-18353.51	4776.14	1642927.77	14247305.40	39°14'4.0695"N	80°59'28.0747"W	18964.78	165.413	0.02	0.00	0.02	
25148.00	89.850	161.780	6294.14	19003.30	-18442.80	4805.53	1642957.14	14247216.14	39°14'3.1869"N	80°59'27.7014"W	19058.59	165.396	0.13	-0.13	-0.01	
25243.00	90.220	161.760	6294.08	19098.29	-18533.03	4835.25	1642986.85	14247125.95	39°14'2.2951"N	80°59'27.3238"W	19153.40	165.378	0.39	0.39	-0.02	
25337.00	90.220	162.260	6293.72	19192.27	-18622.43	4864.28	1643015.87	14247036.58	39°14'1.4114"N	80°59'26.9550"W	19247.24	165.361	0.53	0.00	0.53	
25432.00	90.220	162.100	6293.36	19287.26	-18712.88	4893.35	1643044.93	14246946.18	39°14'0.5175"N	80°59'26.5856"W	19342.09	165.346	0.17	0.00	-0.17	
25526.00	90.310	161.880	6292.92	19381.24	-18802.27	4922.41	1643073.98	14246856.82	39°13'59.6339"N	80°59'26.2164"W	19435.93	165.329	0.25	0.10	-0.23	
25621.00	90.150	161.080	6292.54	19476.24	-18892.35	4952.59	1643104.15	14246766.78	39°13'58.7435"N	80°59'25.8331"W	19530.72	165.311	0.86	-0.17	-0.84	
25716.00	90.280	160.670	6292.19	19571.24	-18982.10	4983.71	1643135.26	14246677.06	39°13'57.8564"N	80°59'25.4377"W	19625.43	165.289	0.45	0.14	-0.43	
25810.00	90.310	160.810	6291.70	19665.23	-19070.84	5014.72	1643166.25	14246588.35	39°13'56.9793"N	80°59'25.0437"W	19719.14	165.267	0.15	0.03	0.15	
25904.00	90.220	160.960	6291.27	19759.23	-19159.66	5045.50	1643197.02	14246499.57	39°13'56.1014"N	80°59'24.6527"W	19812.86	165.247	0.19	-0.10	0.16	
25999.00	90.250	161.060	6290.88	19854.23	-19249.49	5076.41	1643227.92	14246409.78	39°13'55.2135"N	80°59'24.2600"W	19907.60	165.226	0.11	0.03	0.11	
26093.00	90.280	161.050	6290.44	19948.23	-19338.39	5106.93	1643258.43	14246320.91	39°13'54.3347"N	80°59'23.8723"W	20001.35	165.207	0.03	0.03	-0.01	
26188.00	90.310	161.060	6289.95	20043.23	-19428.25	5137.77	1643289.26	14246231.09	39°13'53.4466"N	80°59'23.4805"W	20096.11	165.187	0.03	0.03	0.01	
26282.00	90.220	161.020	6289.52	20137.23	-19517.15	5168.31	1643319.79	14246142.23	39°13'52.5679"N	80°59'23.0925"W	20189.86	165.168	0.10	-0.10	-0.04	
26376.00	90.250	160.890	6289.13	20231.23	-19606.00	5198.99	1643350.45	14246053.41	39°13'51.6897"N	80°59'22.7028"W	20283.61	165.148	0.14	0.03	-0.14	
26471.00	90.310	161.190	6288.67	20326.22	-19695.84	5229.85	1643381.30	14245963.60	39°13'50.8016"N	80°59'22.3107"W	20378.36	165.129	0.32	0.06	0.32	
26565.00	90.250	161.060	6288.21	20420.22	-19784.79	5260.26	1643411.70	14245874.70	39°13'49.9225"N	80°59'21.9244"W	20472.13	165.111	0.15	-0.06	-0.14	
26582.00	90.340	160.610	6288.12	20437.22	-19800.85	5265.84	1643417.27	14245858.64	39°13'49.7638"N	80°59'21.8535"W	20489.08	165.107	2.70	0.53	-2.65	
26608.00†	90.340	160.610	6287.97	20463.22	-19825.37	5274.47	1643425.90	14245834.13	39°13'49.5214"N	80°59'21.7438"W	20515.00	165.102	0.00	0.00	0.00	Projected MD at TD: 26608'

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

HOLE & CASING SECTIONS - Ref Wellbore: Lambert Unit 1H AWB Ref Wellpath: Lambert Unit 1H AWP Proj: 26608'

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	-0.08	0.05
17.5in Open Hole	125.50	394.00	268.50	125.50	394.00	-0.08	0.05	-0.83	0.16
13.375in Casing Surface	25.50	374.00	348.50	25.50	374.00	0.00	0.00	-0.76	0.19
12.375in Open Hole	394.00	3168.00	2774.00	394.00	3090.57	-0.83	0.16	-155.22	-591.34
9.625in Casing Intermediate	25.50	3138.00	3112.50	25.50	3061.55	0.00	0.00	-152.65	-584.18
8.75in Open Hole	3168.00	5926.00	2758.00	3090.57	5732.65	-155.22	-591.34	-456.08	-1303.31
8.5in Open Hole	5926.00	26608.00	20682.00	5732.65	6287.97	-456.08	-1303.31	-19825.37	5274.47
5.5in Casing Production	25.50	26588.00	26562.50	25.50	6288.09	0.00	0.00	-19806.51	5267.83

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Lambert Unit 1H AWP Proj: 26608'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Lambert Unit 1H POE Rev-3	6213.00	-911.22	-1198.10	1636955.93	14264740.68	39°16'56.4641"N	81°00'44.0285"W	point
Lambert Unit 1H BHL Rev-3	6253.00	-20092.97	5395.39	1643546.77	14245566.64	39°13'46.8763"N	80°59'20.2077"W	point
Lambert Unit 1H BHL Rev-4	6253.00	-19809.26	5297.87	1643449.29	14245850.23	39°13'49.6805"N	80°59'21.4465"W	point
Lambert Unit 1H LP Rev-3	6253.00	-1134.40	-1121.38	1637032.62	14264517.59	39°16'54.2584"N	81°00'43.0525"W	point
Lambert Unit 1H 50' L/R Hard Line Rev-2	6500.00	-10360.24	2049.88	1640202.61	14255295.45	39°15'23.0746"N	81°00'2.7223"W	rectangle
2D Rectangle 19983.3 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Lambert Unit 1H AWB Ref Wellpath: Lambert Unit 1H AWP Proj: 26608'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	378.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-378')	Lambert Unit 1H AWB	5/20/2024
378.00	3096.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-3/8"> (378')(413'-3096')	Lambert Unit 1H AWB	5/20/2024
3096.00	5851.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3096')(3205'-5851')	Lambert Unit 1H AWB	7/3/2024
5851.00	26608.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH Lucida <8-1/2"> (5851')(5893'-26582')	Lambert Unit 1H AWB	7/3/2024

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Actual Wellpath Report

Lambert Unit 1H AWP Proj: 26608'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Lambert Unit 1H
Field	Ritchie	API	47-085-10518-0000
Facility	Olympus Pad	Wellbore	Lambert Unit 1H AWB
Slot	Slot A		

COMMENTS

Wellpath general comments

API: 47-085-10518-0000

BH Job #: 112220023

Rig: H&P 317

Duration: 7/7/2024-7/13/2024

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

APS EM <12-3/8"> (378')(413'-3096')

APS EM <8-3/4"> (3096')(3205'-5851')

BH Lucida <8-1/2"> (5851')(5893'-26582')

Sycamore: 6232' MD

Middlesex: 6362' MD

Burkett: 6574' MD

Tully: 6638' MD

Marcellus POE: 6657' MD

Projected MD at TD: 26608'