



ANTERO RESOURCES CORPORATION



Location: Wetzel County, WV
 Field: Wetzel
 Facility: Big Run Pad

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

Easting (ft)

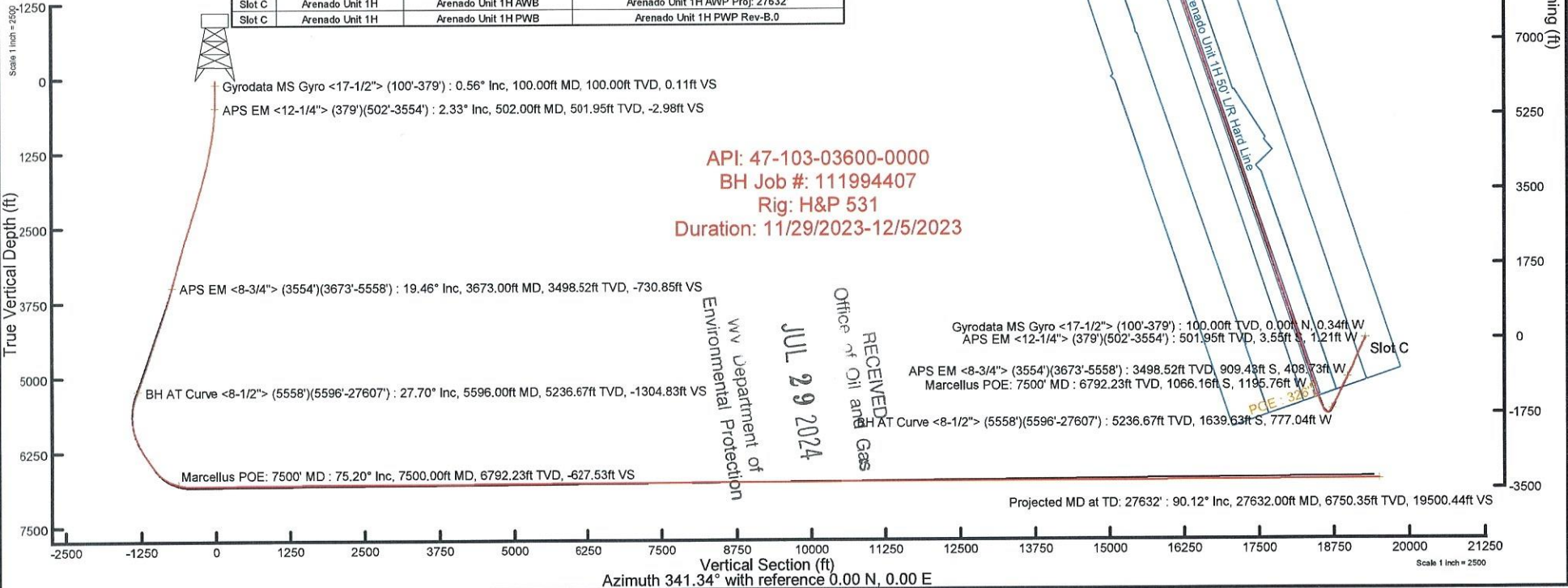
Plot reference wellpath is Arenado Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1280 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot C): -1250 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2023-12-17; Database: WA_MPL_EASTERNUS_Def

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Big Run Pad	1691442.110	14364002.040	39°33'17.4032"N	80°49'8.3073"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot C	0.00	0.00	1691442.110	14364002.040	39°33'17.4032"N
Comment: Arenado Unit 1H					
H&P 531 (RKB) to Ground level (At Slot: Slot C) 30ft					
Mean Sea Level to Ground level (At Slot: Slot C) -1250ft					
H&P 531 (RKB) to Mean Sea Level 1280ft					

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3554.00	21.290	207.230	3386.96	-871.78	-391.56	0.46	-790.68
Proj. to Bottom	3624.00	21.290	207.230	3452.18	-894.38	-403.19	0.00	-718.37
Drill Out	3704.00	21.290	207.230	3526.72	-920.21	-416.48	0.00	-738.58
End of 3D Arc	3921.51	25.576	205.344	3726.24	-997.79	-454.66	2.00	-789.87
Curve KOP	5643.99	25.576	205.344	5279.95	-1669.82	-772.96	0.00	-1334.73
Turn	6749.65	35.000	338.500	6312.87	-1583.69	-1010.02	5.00	-1177.28
Hold / KOP 2	7024.65	35.000	338.500	6538.14	-1436.93	-1067.83	0.00	-1019.74
POE	7511.93	73.921	341.338	6816.00	-1070.88	-1199.06	8.00	-630.94
Landing Pt.	7717.92	90.400	341.338	6844.00	-878.21	-1264.13	8.00	-427.58
BHL	27547.92	90.400	341.338	6705.56	17908.77	-7609.16	0.00	19401.93

User specified (HDGM) Dip: 66.26° Field: 51550 nT
 Magnetic North is 7.49 degrees West of True North (at 11/26/2023)
 Grid North is 0.12 degrees East of True North
 To correct azimuth from True to Grid subtract 0.12 degrees
 To correct azimuth from Magnetic to Grid subtract 7.61 degrees

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Arenado Unit 1H	Arenado Unit 1H AWB	Arenado Unit 1H AWP Proj: 27632'
Slot C	Arenado Unit 1H	Arenado Unit 1H PWB	Arenado Unit 1H PWP Rev-B.0



API: 47-103-03600-0000
 BH Job #: 111994407
 Rig: H&P 531
 Duration: 11/29/2023-12/5/2023

RECEIVED
 Office of Oil and Gas
 JUL 29 2024
 WV Department of Environmental Protection

Gyrodata MS Gyro <17-1/2"> (100'-379') : 100.00ft TVD, 0.00ft N, 0.34ft W
 APS EM <12-1/4"> (379')(502'-3554') : 501.95ft TVD, 3.55ft S, 1.21ft W
 APS EM <8-3/4"> (3554')(3673'-5558') : 3498.52ft TVD, 909.48ft S, 408.73ft W
 Marcellus POE: 7500' MD : 6792.23ft TVD, 1066.16ft S, 1195.76ft W
 BH AT Curve <8-1/2"> (5558')(5596'-27607') : 5236.67ft TVD, 1639.63ft S, 777.04ft W

Projected MD at TD: 27632' : 90.12° Inc, 27632.00ft MD, 6750.35ft TVD, 19500.44ft VS



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'

Page 1 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999603	Report Generated	12/17/2023 at 1:50:53 AM
Convergence at slot	0.12° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1691442.11	14364002.04	39°33'17.4032"N	80°49'8.3073"W
Facility Reference Pt			1691442.11	14364002.04	39°33'17.4032"N	80°49'8.3073"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 531 (RKB) to Facility Vertical Datum	1280.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1280.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot C)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.34°



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'

Page 2 of 14



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Arenado Unit 1H
Field	Wetzel		API	47-103-03600-0000
Facility	Big Run Pad		Wellbore	Arenado Unit 1H AWB
Slot	Slot C			

WELLPATH DATA (294 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	269.330	0.00	0.00	0.00	1691442.11	14364002.04	39°33'17.4032"N	80°49'8.3073"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	269.330	30.00	0.00	0.00	0.00	1691442.11	14364002.04	39°33'17.4032"N	80°49'8.3073"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.560	269.330	100.00	0.11	0.00	-0.34	1691441.77	14364002.04	39°33'17.4032"N	80°49'8.3117"W	0.34	269.330	0.80	0.80	0.00	Gyrodata MS Gyro <17-1/2"> (100'-379')
200.00	0.560	281.570	199.99	0.50	0.09	-1.31	1691440.80	14364002.13	39°33'17.4041"N	80°49'8.3241"W	1.31	273.858	0.12	0.00	12.24	
300.00	0.140	177.310	299.99	0.63	0.06	-1.78	1691440.33	14364002.10	39°33'17.4039"N	80°49'8.3301"W	1.78	272.065	0.61	-0.42	-104.26	
379.00	0.660	151.230	378.99	0.09	-0.43	-1.56	1691440.55	14364001.61	39°33'17.3990"N	80°49'8.3273"W	1.62	254.547	0.68	0.66	-33.01	
502.00	2.330	179.710	501.95	-2.98	-3.55	-1.21	1691440.91	14363998.49	39°33'17.3681"N	80°49'8.3228"W	3.75	198.742	1.45	1.36	23.15	APS EM <12-1/4"> (379')(502'-3554')
592.00	4.970	195.030	591.76	-7.96	-9.15	-2.21	1691439.90	14363992.90	39°33'17.3128"N	80°49'8.3358"W	9.41	193.565	3.10	2.93	17.02	
682.00	6.980	199.300	681.26	-15.52	-18.08	-5.03	1691437.09	14363983.97	39°33'17.2246"N	80°49'8.3720"W	18.76	195.539	2.29	2.23	4.74	
771.00	8.730	202.200	769.43	-24.89	-29.43	-9.37	1691432.75	14363972.62	39°33'17.1125"N	80°49'8.4277"W	30.89	197.651	2.02	1.97	3.26	
861.00	9.420	203.220	858.30	-35.54	-42.53	-14.85	1691427.27	14363959.53	39°33'16.9832"N	80°49'8.4980"W	45.04	199.249	0.79	0.77	1.13	
950.00	10.890	203.770	945.90	-47.17	-56.91	-21.11	1691421.01	14363945.15	39°33'16.8411"N	80°49'8.5783"W	60.70	200.351	1.66	1.65	0.62	
1040.00	12.760	204.090	1033.99	-60.74	-73.77	-28.59	1691413.53	14363928.30	39°33'16.6747"N	80°49'8.6743"W	79.12	201.188	2.08	2.08	0.36	
1134.00	14.880	205.230	1125.26	-77.07	-94.17	-37.98	1691404.15	14363907.91	39°33'16.4733"N	80°49'8.7946"W	101.54	201.964	2.27	2.26	1.21	
1229.00	14.920	203.470	1217.07	-94.93	-116.42	-48.05	1691394.08	14363885.67	39°33'16.2535"N	80°49'8.9237"W	125.94	202.427	0.48	0.04	-1.85	
1323.00	14.730	201.930	1307.94	-112.98	-138.60	-57.33	1691384.80	14363863.49	39°33'16.0345"N	80°49'9.0428"W	149.99	202.471	0.47	-0.20	-1.64	
1418.00	16.120	202.510	1399.51	-132.08	-161.99	-66.89	1691375.25	14363840.11	39°33'15.8035"N	80°49'9.1655"W	175.26	202.437	1.47	1.46	0.61	
1512.00	17.760	202.560	1489.43	-152.68	-187.29	-77.39	1691364.75	14363814.83	39°33'15.5537"N	80°49'9.3001"W	202.65	202.450	1.74	1.74	0.05	
1607.00	19.930	205.020	1579.34	-175.30	-215.35	-89.80	1691352.35	14363786.78	39°33'15.2767"N	80°49'9.4593"W	233.32	202.635	2.43	2.28	2.59	
1701.00	21.210	206.510	1667.34	-198.87	-245.08	-104.16	1691337.99	14363757.06	39°33'14.9831"N	80°49'9.6434"W	266.30	203.026	1.47	1.36	1.59	
1796.00	21.470	207.850	1755.83	-222.95	-275.83	-119.95	1691322.20	14363726.32	39°33'14.6795"N	80°49'9.8458"W	300.79	203.504	0.58	0.27	1.41	
1890.00	20.480	204.670	1843.60	-246.75	-305.99	-134.86	1691307.31	14363696.18	39°33'14.3817"N	80°49'10.0369"W	334.39	203.784	1.60	-1.05	-3.38	
1984.00	21.810	204.760	1931.27	-271.40	-336.79	-149.03	1691293.14	14363665.39	39°33'14.0776"N	80°49'10.2186"W	368.29	203.870	1.42	1.41	0.10	
2078.00	21.980	204.180	2018.49	-296.98	-368.69	-163.55	1691278.62	14363633.49	39°33'13.7626"N	80°49'10.4048"W	403.34	203.922	0.29	0.18	-0.62	
2173.00	21.430	201.640	2106.76	-323.26	-401.04	-177.23	1691264.95	14363601.16	39°33'13.4431"N	80°49'10.5803"W	438.46	203.842	1.15	-0.58	-2.67	
2267.00	21.120	200.530	2194.35	-349.48	-432.87	-189.51	1691252.68	14363569.35	39°33'13.1288"N	80°49'10.7378"W	472.53	203.644	0.54	-0.33	-1.18	
2362.00	22.460	203.480	2282.56	-376.20	-465.54	-202.74	1691239.45	14363536.69	39°33'12.8062"N	80°49'10.9076"W	507.77	203.533	1.82	1.41	3.11	
2457.00	23.140	205.320	2370.14	-403.09	-499.06	-217.95	1691224.24	14363503.18	39°33'12.4752"N	80°49'11.1027"W	544.58	203.592	1.04	0.72	1.94	
2551.00	23.420	204.080	2456.49	-430.10	-532.81	-233.48	1691208.73	14363469.44	39°33'12.1419"N	80°49'11.3017"W	581.72	203.663	0.60	0.30	-1.32	
2646.00	22.570	201.770	2543.94	-457.85	-566.98	-247.94	1691194.27	14363435.29	39°33'11.8045"N	80°49'11.4872"W	618.82	203.620	1.30	-0.89	-2.43	

RECEIVED
 Office of Oil and Gas
 JUL 29 2024
 W. Department of
 Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 3 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
2741.00	22.180	199.530	2631.79	-485.82	-600.81	-260.70	1691181.52	14363401.47	39°33'11.4704"N	80°49'11.6510"W	654.93	203.456	0.99	-0.41	-2.36	
2835.00	22.170	202.960	2718.84	-513.02	-633.87	-273.55	1691168.67	14363368.43	39°33'11.1440"N	80°49'11.8159"W	690.37	203.343	1.38	-0.01	3.65	
2930.00	21.400	203.880	2807.06	-539.19	-666.22	-287.56	1691154.67	14363336.09	39°33'10.8245"N	80°49'11.9955"W	725.63	203.346	0.89	-0.81	0.97	
3024.00	21.850	206.200	2894.44	-564.23	-697.60	-302.22	1691140.01	14363304.72	39°33'10.5147"N	80°49'12.1836"W	760.25	203.424	1.03	0.48	2.47	
3215.00	21.260	206.780	3072.08	-613.72	-760.40	-333.52	1691108.73	14363241.94	39°33'9.8946"N	80°49'12.5847"W	830.33	203.683	0.33	-0.31	0.30	
3309.00	22.100	207.700	3159.43	-637.88	-791.27	-349.42	1691092.83	14363211.08	39°33'9.5898"N	80°49'12.7884"W	864.99	203.826	0.96	0.89	0.98	
3404.00	21.940	207.840	3247.50	-662.43	-822.79	-366.01	1691076.24	14363179.58	39°33'9.2786"N	80°49'13.0011"W	900.52	203.982	0.18	-0.17	0.15	
3554.00	21.290	207.230	3386.96	-700.68	-871.78	-391.56	1691050.71	14363130.61	39°33'8.7949"N	80°49'13.3285"W	955.68	204.187	0.46	-0.43	-0.41	
3673.00	19.460	201.570	3498.52	-730.85	-909.43	-408.73	1691033.54	14363092.97	39°33'8.4231"N	80°49'13.5487"W	997.06	204.201	2.26	-1.54	-4.76	APS EM <8-3/4"> (3554')(3673'-5558')
3768.00	20.480	205.420	3587.81	-754.87	-939.16	-421.69	1691020.59	14363063.25	39°33'8.1296"N	80°49'13.7148"W	1029.49	204.180	1.75	1.07	4.05	
3862.00	23.830	208.800	3674.86	-779.53	-970.66	-437.90	1691004.39	14363031.76	39°33'7.8185"N	80°49'13.9226"W	1064.87	204.282	3.81	3.56	3.60	
3956.00	25.670	209.430	3760.22	-805.97	-1005.04	-457.05	1690985.24	14362997.40	39°33'7.4792"N	80°49'14.1680"W	1104.08	204.454	1.98	1.96	0.67	
4050.00	24.560	208.520	3845.33	-832.85	-1039.94	-476.38	1690965.92	14362962.52	39°33'7.1346"N	80°49'14.4157"W	1143.86	204.612	1.25	-1.18	-0.97	
4145.00	25.440	208.680	3931.43	-860.10	-1075.19	-495.60	1690946.70	14362927.28	39°33'6.7866"N	80°49'14.6620"W	1183.91	204.747	0.93	0.93	0.17	
4239.00	26.130	209.310	4016.07	-887.64	-1110.95	-515.43	1690926.89	14362891.53	39°33'6.4336"N	80°49'14.9159"W	1224.69	204.889	0.79	0.73	0.67	
4333.00	24.350	206.350	4101.10	-915.20	-1146.37	-534.16	1690908.16	14362856.13	39°33'6.0839"N	80°49'15.1560"W	1264.71	204.984	2.32	-1.89	-3.15	
4428.00	25.470	205.280	4187.26	-943.76	-1182.39	-551.58	1690890.75	14362820.12	39°33'5.7282"N	80°49'15.3793"W	1304.72	205.009	1.27	1.18	-1.13	
4522.00	26.820	203.940	4271.64	-973.92	-1220.05	-568.82	1690873.52	14362782.48	39°33'5.3564"N	80°49'15.6003"W	1346.13	204.996	1.57	1.44	-1.43	
4617.00	23.860	199.760	4357.50	-1004.76	-1257.73	-584.01	1690858.33	14362744.81	39°33'4.9843"N	80°49'15.7952"W	1386.71	204.907	3.64	-3.12	-4.40	
4711.00	22.640	199.530	4443.86	-1033.88	-1292.68	-596.49	1690845.86	14362709.88	39°33'4.6391"N	80°49'15.9554"W	1423.66	204.770	1.30	-1.30	-0.24	
4805.00	25.210	206.080	4529.79	-1062.33	-1327.72	-611.34	1690831.01	14362674.85	39°33'4.2931"N	80°49'16.1459"W	1461.71	204.724	3.93	2.73	6.97	
4900.00	24.720	205.180	4615.92	-1091.03	-1363.87	-628.69	1690813.67	14362638.71	39°33'3.9361"N	80°49'16.3683"W	1501.80	204.748	0.65	-0.52	-0.95	
4994.00	22.420	202.870	4702.07	-1118.63	-1398.18	-644.02	1690798.35	14362604.42	39°33'3.5974"N	80°49'16.5649"W	1539.37	204.731	2.64	-2.45	-2.46	
5088.00	24.650	205.560	4788.25	-1146.10	-1432.38	-659.45	1690782.93	14362570.23	39°33'3.2596"N	80°49'16.7627"W	1576.89	204.721	2.63	2.37	2.86	
5183.00	28.450	211.320	4873.23	-1174.86	-1469.61	-679.77	1690762.61	14362533.02	39°33'2.8921"N	80°49'17.0230"W	1619.21	204.823	4.83	4.00	6.06	
5277.00	30.280	212.700	4955.15	-1204.06	-1508.68	-704.21	1690738.18	14362493.96	39°33'2.5064"N	80°49'17.3361"W	1664.94	205.022	2.08	1.95	1.47	
5371.00	28.220	210.650	5037.16	-1233.35	-1547.75	-728.35	1690714.05	14362454.91	39°33'2.1208"N	80°49'17.6452"W	1710.56	205.201	2.44	-2.19	-2.18	
5465.00	26.990	206.980	5120.46	-1262.76	-1585.88	-749.36	1690693.05	14362416.79	39°33'1.7443"N	80°49'17.9144"W	1754.01	205.292	2.23	-1.31	-3.90	
5558.00	27.780	206.940	5203.04	-1292.68	-1624.01	-768.75	1690673.66	14362378.68	39°33'1.3679"N	80°49'18.1629"W	1796.77	205.331	0.85	0.85	-0.04	
5596.00	27.700	208.970	5236.67	-1304.83	-1639.63	-777.04	1690665.38	14362363.06	39°33'1.2136"N	80°49'18.2691"W	1814.44	205.357	2.50	-0.21	5.34	BH AT Curve <8-1/2"> (5558')(5596'-27607')

RECEIVED
Office of Oil and Gas
JUL 29 2024
Environmental Protection
Department of



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 4 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
5691.00	23.880	206.890	5322.20	-1333.18	-1676.11	-796.44	1690645.99	14362326.60	39°33'0.8535"N	80°49'18.5177"W	1855.71	205.416	4.13	-4.02	-2.19	
5785.00	20.480	211.480	5409.24	-1357.06	-1707.12	-813.64	1690628.79	14362295.60	39°33'0.5474"N	80°49'18.7380"W	1891.10	205.483	4.06	-3.62	4.88	
5879.00	17.000	224.000	5498.27	-1373.92	-1731.04	-831.79	1690610.66	14362271.69	39°33'0.3113"N	80°49'18.9703"W	1920.52	205.665	5.64	-3.70	13.32	
5972.00	13.480	236.360	5588.01	-1382.97	-1746.84	-850.26	1690592.18	14362255.90	39°33'0.1555"N	80°49'19.2066"W	1942.78	205.954	5.13	-3.78	13.29	
6066.00	13.560	254.030	5679.45	-1385.28	-1755.94	-869.99	1690572.47	14362246.80	39°33'0.0659"N	80°49'19.4586"W	1959.65	206.356	4.38	0.09	18.80	
6160.00	13.490	275.550	5770.90	-1380.27	-1757.91	-891.51	1690550.96	14362244.83	39°33'0.0468"N	80°49'19.7334"W	1971.05	206.891	5.32	-0.07	22.89	
6254.00	14.610	298.080	5862.15	-1367.13	-1751.27	-912.90	1690529.58	14362251.47	39°33'0.1129"N	80°49'20.0063"W	1974.92	207.532	5.90	1.19	23.97	
6349.00	17.510	316.520	5953.50	-1345.41	-1735.25	-933.32	1690509.16	14362267.49	39°33'0.2717"N	80°49'20.2666"W	1970.32	208.274	6.14	3.05	19.41	
6443.00	20.470	325.590	6042.39	-1316.75	-1711.41	-952.35	1690490.14	14362291.31	39°33'0.5076"N	80°49'20.5089"W	1958.55	209.095	4.44	3.15	9.65	
6537.00	24.110	331.510	6129.36	-1281.99	-1680.96	-970.80	1690471.69	14362321.75	39°33'0.8089"N	80°49'20.7437"W	1941.16	210.008	4.55	3.87	6.30	
6631.00	29.650	334.690	6213.18	-1239.95	-1643.04	-989.92	1690452.59	14362359.66	39°33'1.1841"N	80°49'20.9868"W	1918.21	211.069	6.09	5.89	3.38	
6726.00	34.730	334.590	6293.55	-1189.70	-1597.32	-1011.59	1690430.92	14362405.35	39°33'1.6363"N	80°49'21.2623"W	1890.70	212.346	5.35	5.35	-0.11	
6820.00	34.870	334.100	6370.74	-1136.45	-1548.97	-1034.82	1690407.71	14362453.69	39°33'2.1147"N	80°49'21.5576"W	1862.83	213.746	0.33	0.15	-0.52	
6914.00	35.110	338.850	6447.76	-1082.78	-1499.57	-1056.31	1690386.22	14362503.06	39°33'2.6033"N	80°49'21.8307"W	1834.26	215.161	2.91	0.26	5.05	
6986.00†	36.594	340.120	6506.12	-1040.63	-1460.08	-1071.08	1690371.46	14362542.54	39°33'2.9939"N	80°49'22.0183"W	1810.81	216.263	2.31	2.06	1.76	Sycamore: 6986' MD
7008.00	37.050	340.490	6523.73	-1027.45	-1447.66	-1075.52	1690367.01	14362554.95	39°33'3.1167"N	80°49'22.0747"W	1803.47	216.610	2.31	2.07	1.68	
7102.00	42.370	341.200	6596.02	-967.42	-1390.95	-1095.20	1690347.34	14362611.65	39°33'3.6776"N	80°49'22.3245"W	1770.37	218.216	5.68	5.66	0.76	
7131.00†	45.071	342.041	6616.97	-947.38	-1371.93	-1101.52	1690341.03	14362630.66	39°33'3.8657"N	80°49'22.4047"W	1759.41	218.761	9.53	9.31	2.90	Middlesex: 7131' MD
7155.00	47.310	342.680	6633.59	-930.06	-1355.42	-1106.77	1690335.79	14362647.16	39°33'4.0290"N	80°49'22.4712"W	1749.89	219.233	9.53	9.33	2.66	
7196.00	51.490	343.570	6660.26	-898.96	-1325.64	-1115.79	1690326.76	14362676.93	39°33'4.3235"N	80°49'22.5857"W	1732.72	220.087	10.33	10.20	2.17	
7284.00†	59.734	342.646	6709.92	-826.43	-1256.22	-1136.90	1690305.66	14362746.32	39°33'5.0100"N	80°49'22.8535"W	1694.30	222.146	9.41	9.37	-1.05	Burkett: 7284' MD
7291.00	60.390	342.580	6713.42	-820.37	-1250.43	-1138.71	1690303.85	14362752.11	39°33'5.0672"N	80°49'22.8764"W	1691.23	222.323	9.41	9.37	-0.95	
7321.00†	62.429	342.610	6727.77	-794.03	-1225.30	-1146.59	1690295.97	14362777.23	39°33'5.3158"N	80°49'22.9764"W	1678.10	223.100	6.80	6.80	0.10	Tully: 7321' MD
7385.00	66.780	342.670	6755.21	-736.25	-1170.13	-1163.84	1690278.73	14362832.38	39°33'5.8614"N	80°49'23.1952"W	1650.37	224.846	6.80	6.80	0.09	
7480.00	74.160	343.160	6786.95	-646.81	-1084.60	-1190.12	1690252.47	14362917.87	39°33'6.7072"N	80°49'23.5285"W	1610.20	227.656	7.78	7.77	0.52	
7500.00†	75.197	342.807	6792.23	-627.53	-1066.16	-1195.76	1690246.82	14362936.31	39°33'6.8896"N	80°49'23.6001"W	1602.04	228.279	5.46	5.19	-1.76	Marcellus POE: 7500' MD
7574.00	79.040	341.530	6808.73	-555.41	-997.50	-1217.85	1690224.74	14363004.94	39°33'7.5686"N	80°49'23.8804"W	1574.22	230.680	5.46	5.19	-1.73	
7668.00	87.510	342.000	6819.73	-462.15	-908.92	-1247.04	1690195.57	14363093.49	39°33'8.4446"N	80°49'24.2507"W	1543.12	233.913	9.02	9.01	0.50	
7762.00	90.400	341.680	6821.44	-368.18	-819.62	-1276.32	1690166.29	14363182.74	39°33'9.3277"N	80°49'24.6224"W	1516.83	237.292	3.09	3.07	-0.34	
7857.00	90.000	341.640	6821.11	-273.18	-729.45	-1306.22	1690136.41	14363272.88	39°33'10.2195"N	80°49'25.0018"W	1496.09	240.819	0.42	-0.42	-0.04	

RECEIVED
Office of Oil and Gas

JUL 29 2024

Department of
Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 5 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
7951.00	90.030	342.130	6821.08	-179.18	-640.11	-1335.44	1690107.20	14363362.19	39°33'11.1030"N	80°49'25.3726"W	1480.93	244.391	0.52	0.03	0.52	
8047.00	91.420	341.530	6819.87	-83.20	-548.91	-1365.38	1690077.28	14363453.35	39°33'12.0050"N	80°49'25.7525"W	1471.58	248.099	1.58	1.45	-0.63	
8141.00	90.800	341.410	6818.05	10.78	-459.80	-1395.24	1690047.42	14363542.43	39°33'12.8863"N	80°49'26.1316"W	1469.05	251.761	0.67	-0.66	-0.13	
8235.00	90.770	341.610	6816.76	104.77	-370.66	-1425.05	1690017.63	14363631.53	39°33'13.7678"N	80°49'26.5099"W	1472.47	255.420	0.22	-0.03	0.21	
8330.00	90.340	341.310	6815.84	199.77	-280.59	-1455.26	1689987.43	14363721.56	39°33'14.6586"N	80°49'26.8933"W	1482.06	259.087	0.55	-0.45	-0.32	
8424.00	90.150	341.560	6815.44	293.77	-191.48	-1485.19	1689957.52	14363810.63	39°33'15.5398"N	80°49'27.2731"W	1497.48	262.653	0.33	-0.20	0.27	
8518.00	90.370	341.820	6815.01	387.77	-102.24	-1514.72	1689928.00	14363899.84	39°33'16.4224"N	80°49'27.6479"W	1518.16	266.138	0.36	0.23	0.28	
8612.00	90.340	341.630	6814.43	481.76	-12.99	-1544.19	1689898.53	14363989.06	39°33'17.3051"N	80°49'28.0220"W	1544.25	269.518	0.20	-0.03	-0.20	
8707.00	90.740	341.380	6813.54	576.76	77.10	-1574.33	1689868.41	14364079.11	39°33'18.1960"N	80°49'28.4045"W	1576.21	272.804	0.50	0.42	-0.26	
8801.00	90.460	342.560	6812.55	670.74	166.48	-1603.42	1689839.33	14364168.45	39°33'19.0799"N	80°49'28.7737"W	1612.04	275.928	1.29	-0.30	1.26	
8895.00	90.460	341.510	6811.80	764.73	255.89	-1632.41	1689810.35	14364257.83	39°33'19.9642"N	80°49'29.1416"W	1652.34	278.909	1.12	0.00	-1.12	
8989.00	90.520	341.290	6810.99	858.73	344.98	-1662.39	1689780.38	14364346.88	39°33'20.8452"N	80°49'29.5221"W	1697.81	281.724	0.24	0.06	-0.23	
9084.00	90.490	341.600	6810.15	953.73	435.04	-1692.62	1689750.17	14364436.90	39°33'21.7359"N	80°49'29.9058"W	1747.63	284.414	0.33	-0.03	0.33	
9179.00	90.430	339.660	6809.39	1048.71	524.65	-1724.13	1689718.67	14364526.48	39°33'22.6222"N	80°49'30.3058"W	1802.19	286.925	2.04	-0.06	-2.04	
9273.00	90.650	337.920	6808.51	1142.61	612.28	-1758.13	1689684.68	14364614.07	39°33'23.4888"N	80°49'30.7378"W	1861.70	289.201	1.87	0.23	-1.85	
9367.00	89.970	339.000	6808.00	1236.49	699.71	-1792.64	1689650.18	14364701.47	39°33'24.3536"N	80°49'31.1762"W	1924.36	291.322	1.36	-0.72	1.15	
9462.00	90.490	342.040	6807.62	1331.47	789.26	-1824.32	1689618.52	14364790.99	39°33'25.2393"N	80°49'31.5784"W	1987.73	293.395	3.25	0.55	3.20	
9556.00	90.280	340.730	6806.98	1425.46	878.34	-1854.32	1689588.53	14364880.03	39°33'26.1202"N	80°49'31.9593"W	2051.83	295.346	1.41	-0.22	-1.39	
9650.00	90.400	341.380	6806.43	1519.46	967.24	-1884.84	1689558.02	14364968.90	39°33'26.9995"N	80°49'32.3467"W	2118.53	297.166	0.70	0.13	0.69	
9745.00	90.430	341.580	6805.74	1614.46	1057.32	-1915.01	1689527.86	14365058.94	39°33'27.8903"N	80°49'32.7297"W	2187.51	298.904	0.21	0.03	0.21	
9839.00	90.430	341.800	6805.03	1708.45	1146.56	-1944.54	1689498.34	14365148.14	39°33'28.7729"N	80°49'33.1046"W	2257.40	300.525	0.23	0.00	0.23	
9933.00	89.750	341.240	6804.89	1802.45	1235.71	-1974.34	1689468.56	14365237.26	39°33'29.6545"N	80°49'33.4828"W	2329.16	302.042	0.94	-0.72	-0.60	
10028.00	90.150	342.220	6804.97	1897.45	1325.92	-2004.12	1689438.79	14365327.43	39°33'30.5467"N	80°49'33.8608"W	2403.03	303.489	1.11	0.42	1.03	
10122.00	90.030	340.520	6804.82	1991.44	1414.99	-2034.15	1689408.77	14365416.47	39°33'31.4276"N	80°49'34.2419"W	2477.90	304.823	1.81	-0.13	-1.81	
10216.00	90.740	341.750	6804.19	2085.44	1503.94	-2064.54	1689378.39	14365505.38	39°33'32.3072"N	80°49'34.6278"W	2554.24	306.072	1.51	0.76	1.31	
10311.00	90.650	342.030	6803.04	2180.43	1594.23	-2094.07	1689348.88	14365595.63	39°33'33.2001"N	80°49'35.0026"W	2631.86	307.282	0.31	-0.09	0.29	
10405.00	89.320	341.690	6803.06	2274.42	1683.55	-2123.33	1689319.62	14365684.92	39°33'34.0835"N	80°49'35.3740"W	2709.78	308.410	1.46	-1.41	-0.36	
10499.00	90.060	342.190	6803.57	2368.41	1772.92	-2152.48	1689290.49	14365774.25	39°33'34.9673"N	80°49'35.7439"W	2788.62	309.477	0.95	0.79	0.53	
10594.00	90.460	343.730	6803.14	2463.37	1863.75	-2180.31	1689262.67	14365865.04	39°33'35.8655"N	80°49'36.0970"W	2868.33	310.524	1.67	0.42	1.62	
10688.00	90.060	342.350	6802.71	2557.33	1953.65	-2207.73	1689235.26	14365954.91	39°33'36.7546"N	80°49'36.4449"W	2948.02	311.506	1.53	-0.43	-1.47	

RECEIVED
Office of Oil and Gas
JUL 29 2024
Department of
Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'

Page 6 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
10783.00	90.120	342.390	6802.56	2652.31	2044.19	-2236.50	1689206.50	14366045.42	39°33'37.6499"N	80°49'36.8101"W	3029.96	312.428	0.08	0.06	0.04	
10877.00	90.180	342.450	6802.32	2746.29	2133.80	-2264.90	1689178.12	14366134.99	39°33'38.5361"N	80°49'37.1703"W	3111.73	313.293	0.09	0.06	0.06	
10971.00	89.720	341.070	6802.40	2840.29	2223.08	-2294.32	1689148.71	14366224.23	39°33'39.4190"N	80°49'37.5438"W	3194.68	314.096	1.55	-0.49	-1.47	
11066.00	90.030	342.000	6802.61	2935.29	2313.18	-2324.41	1689118.63	14366314.30	39°33'40.3101"N	80°49'37.9258"W	3279.28	314.861	1.03	0.33	0.98	
11160.00	89.820	341.570	6802.73	3029.28	2402.47	-2353.79	1689089.26	14366403.55	39°33'41.1931"N	80°49'38.2987"W	3363.36	315.586	0.51	-0.22	-0.46	
11254.00	89.630	341.540	6803.18	3123.28	2491.64	-2383.53	1689059.53	14366492.69	39°33'42.0750"N	80°49'38.6763"W	3448.11	316.270	0.20	-0.20	-0.03	
11348.00	90.180	341.590	6803.34	3217.28	2580.82	-2413.25	1689029.82	14366581.83	39°33'42.9569"N	80°49'39.0536"W	3533.33	316.922	0.59	0.59	0.05	
11443.00	89.690	341.380	6803.44	3312.28	2670.90	-2443.42	1688999.66	14366671.88	39°33'43.8478"N	80°49'39.4366"W	3619.95	317.547	0.56	-0.52	-0.22	
11537.00	90.430	341.910	6803.35	3406.28	2760.12	-2473.02	1688970.07	14366761.06	39°33'44.7301"N	80°49'39.8124"W	3705.95	318.140	0.97	0.79	0.56	
11632.00	89.880	341.650	6803.09	3501.27	2850.35	-2502.73	1688940.38	14366851.26	39°33'45.6225"N	80°49'40.1894"W	3793.17	318.716	0.64	-0.58	-0.27	
11726.00	90.310	342.050	6802.93	3595.27	2939.68	-2532.01	1688911.11	14366940.54	39°33'46.5058"N	80°49'40.5611"W	3879.79	319.261	0.62	0.46	0.43	
11820.00	90.310	341.450	6802.42	3689.26	3028.95	-2561.44	1688881.69	14367029.78	39°33'47.3887"N	80°49'40.9348"W	3966.80	319.780	0.64	0.00	-0.64	
11914.00	90.220	342.000	6801.99	3783.26	3118.20	-2590.92	1688852.22	14367119.00	39°33'48.2714"N	80°49'41.3090"W	4054.14	320.277	0.59	-0.10	0.59	
12008.00	90.520	342.960	6801.38	3877.24	3207.84	-2619.22	1688823.94	14367208.60	39°33'49.1578"N	80°49'41.6681"W	4141.32	320.768	1.07	0.32	1.02	
12102.00	90.340	341.730	6800.68	3971.22	3297.41	-2647.72	1688795.44	14367298.13	39°33'50.0436"N	80°49'42.0299"W	4228.87	321.237	1.32	-0.19	-1.31	
12196.00	90.310	341.900	6800.14	4065.22	3386.71	-2677.06	1688766.12	14367387.40	39°33'50.9267"N	80°49'42.4023"W	4317.00	321.675	0.18	-0.03	0.18	
12291.00	90.800	341.810	6799.22	4160.21	3476.98	-2706.64	1688736.55	14367477.64	39°33'51.8195"N	80°49'42.7778"W	4406.28	322.101	0.52	0.52	-0.09	
12385.00	89.850	340.750	6798.69	4254.20	3566.01	-2736.81	1688706.39	14367566.62	39°33'52.6999"N	80°49'43.1608"W	4495.17	322.495	1.51	-1.01	-1.13	
12479.00	90.520	340.650	6798.39	4348.20	3654.72	-2767.88	1688675.34	14367655.30	39°33'53.5773"N	80°49'43.5554"W	4584.56	322.862	0.72	0.71	-0.11	
12573.00	90.520	341.720	6797.53	4442.19	3743.70	-2798.19	1688645.03	14367744.24	39°33'54.4572"N	80°49'43.9403"W	4673.88	323.224	1.14	0.00	1.14	
12667.00	90.120	340.730	6797.01	4536.19	3832.69	-2828.45	1688614.79	14367833.20	39°33'55.3373"N	80°49'44.3244"W	4763.36	323.573	1.14	-0.43	-1.05	
12762.00	90.400	340.910	6796.58	4631.18	3922.42	-2859.66	1688583.59	14367922.89	39°33'56.2247"N	80°49'44.7208"W	4854.17	323.906	0.35	0.29	0.19	
12856.00	90.220	340.960	6796.07	4725.18	4011.26	-2890.36	1688552.90	14368011.70	39°33'57.1033"N	80°49'45.1107"W	4944.13	324.225	0.20	-0.19	0.05	
12950.00	90.220	340.970	6795.71	4819.18	4100.12	-2921.02	1688522.26	14368100.52	39°33'57.9821"N	80°49'45.5000"W	5034.21	324.533	0.01	0.00	0.01	
13045.00	91.080	340.980	6794.63	4914.17	4189.92	-2951.98	1688491.30	14368190.29	39°33'58.8702"N	80°49'45.8932"W	5125.39	324.834	0.91	0.91	0.01	
13139.00	90.620	341.290	6793.24	5008.16	4278.86	-2982.37	1688460.93	14368279.20	39°33'59.7498"N	80°49'46.2791"W	5215.67	325.123	0.59	-0.49	0.33	
13233.00	90.280	340.740	6792.50	5102.15	4367.75	-3012.95	1688430.36	14368368.04	39°34'0.6288"N	80°49'46.6674"W	5306.14	325.401	0.69	-0.36	-0.59	
13327.00	90.280	340.680	6792.04	5196.14	4456.47	-3044.01	1688399.32	14368456.73	39°34'1.5063"N	80°49'47.0618"W	5396.86	325.665	0.06	0.00	-0.06	
13421.00	90.220	340.550	6791.63	5290.14	4545.14	-3075.21	1688368.13	14368545.37	39°34'2.3832"N	80°49'47.4580"W	5487.73	325.918	0.15	-0.06	-0.14	
13516.00	90.280	340.460	6791.21	5385.12	4634.69	-3106.91	1688336.44	14368634.88	39°34'3.2689"N	80°49'47.8607"W	5579.72	326.164	0.11	0.06	-0.09	

RECEIVED
Office of Oil and Gas
JUL 29 2024
W. Department of
Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 7 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
13610.00	90.310	340.830	6790.73	5479.12	4723.38	-3138.06	1688305.30	14368723.53	39°34'4.1460"N	80°49'48.2563"W	5670.78	326.401	0.39	0.03	0.39	
13704.00	90.090	340.520	6790.40	5573.11	4812.08	-3169.17	1688274.21	14368812.20	39°34'5.0232"N	80°49'48.6514"W	5761.92	326.632	0.40	-0.23	-0.33	
13798.00	90.310	341.620	6790.07	5667.11	4900.99	-3199.66	1688243.72	14368901.08	39°34'5.9025"N	80°49'49.0386"W	5853.00	326.861	1.19	0.23	1.17	
13891.00	90.250	340.610	6789.62	5760.10	4988.99	-3229.76	1688213.64	14368989.04	39°34'6.7727"N	80°49'49.4209"W	5943.18	327.082	1.09	-0.06	-1.09	
13986.00	90.400	340.850	6789.08	5855.10	5078.66	-3261.11	1688182.30	14369078.68	39°34'7.6596"N	80°49'49.8191"W	6035.53	327.295	0.30	0.16	0.25	
14080.00	90.490	340.970	6788.35	5949.09	5167.49	-3291.86	1688151.57	14369167.47	39°34'8.5381"N	80°49'50.2095"W	6126.93	327.502	0.16	0.10	0.13	
14174.00	90.120	341.250	6787.85	6043.09	5256.43	-3322.29	1688121.15	14369256.37	39°34'9.4176"N	80°49'50.5959"W	6218.33	327.705	0.49	-0.39	0.30	
14267.00	90.250	340.960	6787.55	6136.09	5344.41	-3352.41	1688091.04	14369344.32	39°34'10.2878"N	80°49'50.9784"W	6308.83	327.901	0.34	0.14	-0.31	
14361.00	90.340	340.680	6787.07	6230.08	5433.19	-3383.29	1688060.17	14369433.07	39°34'11.1658"N	80°49'51.3706"W	6400.49	328.089	0.31	0.10	-0.30	
14455.00	90.310	341.100	6786.53	6324.08	5522.01	-3414.06	1688029.41	14369521.85	39°34'12.0442"N	80°49'51.7615"W	6492.18	328.273	0.45	-0.03	0.45	
14549.00	90.400	340.720	6785.95	6418.07	5610.84	-3444.80	1687998.68	14369610.64	39°34'12.9227"N	80°49'52.1519"W	6583.94	328.452	0.42	0.10	-0.40	
14644.00	90.400	340.980	6785.29	6513.07	5700.58	-3475.97	1687967.53	14369700.35	39°34'13.8102"N	80°49'52.5477"W	6676.75	328.627	0.27	0.00	0.27	
14737.00	90.680	340.950	6784.41	6606.06	5788.49	-3506.30	1687937.21	14369788.22	39°34'14.6796"N	80°49'52.9329"W	6767.63	328.795	0.30	0.30	-0.03	
14831.00	89.690	340.770	6784.11	6700.05	5877.30	-3537.12	1687906.40	14369876.99	39°34'15.5578"N	80°49'53.3243"W	6859.58	328.959	1.07	-1.05	-0.19	
14925.00	90.280	340.940	6784.13	6794.05	5966.10	-3567.94	1687875.59	14369965.76	39°34'16.4360"N	80°49'53.7159"W	6951.58	329.119	0.65	0.63	0.18	
15019.00	90.620	340.860	6783.39	6888.05	6054.92	-3598.70	1687844.84	14370054.54	39°34'17.3144"N	80°49'54.1065"W	7043.63	329.275	0.37	0.36	-0.09	
15113.00	89.420	341.820	6783.36	6982.04	6143.97	-3628.78	1687814.78	14370143.56	39°34'18.1951"N	80°49'54.4884"W	7135.58	329.433	1.63	-1.28	1.02	
15207.00	90.310	340.830	6783.58	7076.04	6233.02	-3658.87	1687784.70	14370232.58	39°34'19.0758"N	80°49'54.8706"W	7227.58	329.586	1.42	0.95	-1.05	
15300.00	90.220	341.080	6783.15	7169.04	6320.93	-3689.22	1687754.36	14370320.45	39°34'19.9452"N	80°49'55.2561"W	7318.78	329.730	0.29	-0.10	0.27	
15394.00	89.510	341.240	6783.37	7263.04	6409.89	-3719.58	1687724.02	14370409.38	39°34'20.8250"N	80°49'55.6416"W	7410.94	329.874	0.77	-0.76	0.17	
15489.00	90.000	341.130	6783.78	7358.03	6499.82	-3750.21	1687693.39	14370499.26	39°34'21.7143"N	80°49'56.0307"W	7504.11	330.016	0.53	0.52	-0.12	
15583.00	90.250	340.870	6783.57	7452.03	6588.70	-3780.82	1687662.80	14370588.11	39°34'22.5932"N	80°49'56.4194"W	7596.41	330.151	0.38	0.27	-0.28	
15677.00	90.520	342.590	6782.94	7546.02	6677.95	-3810.28	1687633.35	14370677.33	39°34'23.4759"N	80°49'56.7936"W	7688.52	330.292	1.85	0.29	1.83	
15771.00	89.880	340.310	6782.61	7640.02	6767.06	-3840.19	1687603.46	14370766.40	39°34'24.3571"N	80°49'57.1733"W	7780.75	330.426	2.52	-0.68	-2.43	
15865.00	90.090	341.290	6782.64	7734.01	6855.83	-3871.10	1687572.55	14370855.14	39°34'25.2351"N	80°49'57.5659"W	7873.24	330.549	1.07	0.22	1.04	
15959.00	90.150	341.000	6782.44	7828.01	6944.79	-3901.48	1687542.19	14370944.06	39°34'26.1148"N	80°49'57.9518"W	7965.65	330.673	0.32	0.06	-0.31	
16054.00	90.120	341.060	6782.22	7923.01	7034.63	-3932.36	1687511.32	14371033.86	39°34'27.0033"N	80°49'58.3440"W	8059.12	330.795	0.07	-0.03	0.06	
16148.00	90.310	340.820	6781.87	8017.01	7123.47	-3963.06	1687480.64	14371122.67	39°34'27.8819"N	80°49'58.7339"W	8151.67	330.911	0.33	0.20	-0.26	
16242.00	90.120	341.200	6781.51	8111.00	7212.36	-3993.64	1687450.06	14371211.52	39°34'28.7609"N	80°49'59.1224"W	8244.23	331.026	0.45	-0.20	0.40	
16336.00	89.850	341.550	6781.54	8205.00	7301.43	-4023.66	1687420.05	14371300.56	39°34'29.6418"N	80°49'59.5037"W	8336.71	331.142	0.47	-0.29	0.37	

RECEIVED
Office of Oil and Gas
JUL 29 2024
WV Department of
Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 8 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Well: Arenado Unit 1H
Field	Wetzel		API: 47-103-03600-0000
Facility	Big Run Pad		Wellbore: Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
16430.00	90.030	340.920	6781.64	8299.00	7390.44	-4053.90	1687389.82	14371389.53	39°34'30.5220"N	80°49'59.8877"W	8429.27	331.254	0.70	0.19	-0.67	
16524.00	90.370	340.830	6781.31	8393.00	7479.25	-4084.70	1687359.04	14371478.30	39°34'31.4003"N	80°50'0.2789"W	8521.97	331.359	0.37	0.36	-0.10	
16618.00	90.120	341.970	6780.91	8487.00	7568.33	-4114.68	1687329.07	14371567.35	39°34'32.2814"N	80°50'0.6597"W	8614.54	331.468	1.24	-0.27	1.21	
16712.00	89.970	340.810	6780.83	8580.99	7657.42	-4144.68	1687299.09	14371656.40	39°34'33.1623"N	80°50'1.0407"W	8707.15	331.575	1.24	-0.16	-1.23	
16807.00	90.250	340.730	6780.65	8675.99	7747.12	-4175.97	1687267.81	14371746.07	39°34'34.0494"N	80°50'1.4381"W	8800.94	331.674	0.31	0.29	-0.08	
16901.00	90.310	341.040	6780.19	8769.99	7835.93	-4206.75	1687237.04	14371834.85	39°34'34.9278"N	80°50'1.8291"W	8893.74	331.771	0.34	0.06	0.33	
16996.00	90.150	341.000	6779.81	8864.98	7925.77	-4237.65	1687206.15	14371924.65	39°34'35.8162"N	80°50'2.2216"W	8987.52	331.868	0.17	-0.17	-0.04	
17090.00	90.430	340.770	6779.33	8958.98	8014.58	-4268.43	1687175.39	14372013.43	39°34'36.6945"N	80°50'2.6126"W	9080.36	331.961	0.39	0.30	-0.24	
17185.00	90.120	340.800	6778.88	9053.97	8104.29	-4299.69	1687144.13	14372103.10	39°34'37.5817"N	80°50'3.0098"W	9174.25	332.052	0.33	-0.33	0.03	
17279.00	90.150	340.150	6778.66	9147.96	8192.88	-4331.11	1687112.73	14372191.65	39°34'38.4579"N	80°50'3.4089"W	9267.25	332.137	0.69	0.03	-0.69	
17373.00	90.000	340.820	6778.53	9241.95	8281.48	-4362.51	1687081.34	14372280.22	39°34'39.3341"N	80°50'3.8078"W	9360.26	332.221	0.73	-0.16	0.71	
17468.00	90.400	340.730	6778.20	9336.94	8371.18	-4393.79	1687050.07	14372369.88	39°34'40.2212"N	80°50'4.2052"W	9454.21	332.306	0.43	0.42	-0.09	
17562.00	90.150	340.680	6777.75	9430.94	8459.90	-4424.85	1687019.02	14372458.57	39°34'41.0986"N	80°50'4.5998"W	9547.21	332.389	0.27	-0.27	-0.05	
17657.00	90.280	340.790	6777.39	9525.93	8549.58	-4456.20	1686987.69	14372548.21	39°34'41.9855"N	80°50'4.9980"W	9641.22	332.471	0.18	0.14	0.12	
17751.00	90.280	340.590	6776.93	9619.92	8638.29	-4487.28	1686956.62	14372636.89	39°34'42.8628"N	80°50'5.3929"W	9734.26	332.550	0.21	0.00	-0.21	
17844.00	90.090	340.870	6776.63	9712.92	8726.08	-4517.97	1686925.94	14372724.64	39°34'43.7310"N	80°50'5.7828"W	9826.32	332.627	0.36	-0.20	0.30	
17938.00	90.220	340.820	6776.38	9806.91	8814.88	-4548.81	1686895.11	14372813.40	39°34'44.6091"N	80°50'6.1746"W	9919.36	332.705	0.15	0.14	-0.05	
18033.00	90.370	340.870	6775.89	9901.91	8904.62	-4579.99	1686863.95	14372903.10	39°34'45.4966"N	80°50'6.5706"W	10013.41	332.782	0.17	0.16	0.05	
18127.00	90.310	340.830	6775.33	9995.90	8993.41	-4610.82	1686833.13	14372991.87	39°34'46.3747"N	80°50'6.9624"W	10106.49	332.856	0.08	-0.06	-0.04	
18221.00	90.220	340.970	6774.90	10089.90	9082.24	-4641.58	1686802.38	14373080.65	39°34'47.2532"N	80°50'7.3531"W	10199.57	332.930	0.18	-0.10	0.15	
18316.00	89.970	341.000	6774.74	10184.90	9172.05	-4672.53	1686771.44	14373170.43	39°34'48.1414"N	80°50'7.7463"W	10293.65	333.004	0.27	-0.26	0.03	
18410.00	90.000	340.880	6774.76	10278.90	9260.90	-4703.23	1686740.76	14373259.25	39°34'49.0200"N	80°50'8.1363"W	10386.75	333.076	0.13	0.03	-0.13	
18504.00	90.370	340.790	6774.46	10372.89	9349.69	-4734.09	1686709.91	14373348.00	39°34'49.8981"N	80°50'8.5283"W	10479.90	333.145	0.41	0.39	-0.10	
18599.00	90.430	340.610	6773.80	10467.88	9439.35	-4765.49	1686678.53	14373437.62	39°34'50.7848"N	80°50'8.9272"W	10574.08	333.213	0.20	0.06	-0.19	
18694.00	90.430	341.020	6773.08	10562.88	9529.07	-4796.70	1686647.32	14373527.31	39°34'51.6721"N	80°50'9.3238"W	10668.25	333.280	0.43	0.00	0.43	
18788.00	89.850	340.840	6772.85	10656.87	9617.91	-4827.42	1686616.62	14373616.11	39°34'52.5507"N	80°50'9.7140"W	10761.42	333.347	0.65	-0.62	-0.19	
18976.00	90.150	340.600	6772.85	10844.86	9795.37	-4889.49	1686554.57	14373793.50	39°34'54.3056"N	80°50'10.5027"W	10947.89	333.473	0.20	0.16	-0.13	
19070.00	90.580	340.260	6772.26	10938.85	9883.93	-4920.97	1686523.10	14373882.03	39°34'55.1815"N	80°50'10.9027"W	11041.20	333.532	0.58	0.46	-0.36	
19165.00	90.370	341.180	6771.47	11033.84	9973.60	-4952.34	1686491.74	14373971.66	39°34'56.0683"N	80°50'11.3012"W	11135.46	333.594	0.99	-0.22	0.97	
19259.00	89.910	340.840	6771.24	11127.84	10062.49	-4982.93	1686461.17	14374060.51	39°34'56.9473"N	80°50'11.6898"W	11228.68	333.655	0.61	-0.49	-0.36	

RECEIVED
Office of Oil and Gas
JUL 29 2024
Department of
Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 9 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
19353.00	89.880	340.600	6771.41	11221.83	10151.21	-5013.97	1686430.14	14374149.20	39°34'57.8248"N	80°50'12.0842"W	11321.97	333.714	0.26	-0.03	-0.26	
19447.00	89.780	340.320	6771.69	11315.82	10239.80	-5045.41	1686398.72	14374237.75	39°34'58.7009"N	80°50'12.4837"W	11415.32	333.769	0.32	-0.11	-0.30	
19541.00	90.280	340.720	6771.64	11409.81	10328.42	-5076.75	1686367.38	14374326.34	39°34'59.5773"N	80°50'12.8820"W	11508.68	333.824	0.68	0.53	0.43	
19636.00	90.030	341.670	6771.38	11504.81	10418.35	-5107.37	1686336.77	14374416.23	39°35'0.4666"N	80°50'13.2710"W	11602.90	333.885	1.03	-0.26	1.00	
19730.00	90.030	341.850	6771.33	11598.80	10507.62	-5136.80	1686307.36	14374505.47	39°35'1.3495"N	80°50'13.6447"W	11696.02	333.948	0.19	0.00	0.19	
19825.00	90.000	341.950	6771.31	11693.80	10597.92	-5166.31	1686277.86	14374595.73	39°35'2.2424"N	80°50'14.0196"W	11790.11	334.012	0.11	-0.03	0.11	
19919.00	89.970	341.660	6771.33	11787.80	10687.22	-5195.66	1686248.52	14374685.00	39°35'3.1255"N	80°50'14.3924"W	11883.25	334.073	0.31	-0.03	-0.31	
20014.00	89.910	341.770	6771.43	11882.79	10777.43	-5225.47	1686218.73	14374775.16	39°35'4.0176"N	80°50'14.7710"W	11977.41	334.133	0.13	-0.06	0.12	
20108.00	90.120	342.080	6771.41	11976.79	10866.79	-5254.63	1686189.57	14374864.49	39°35'4.9012"N	80°50'15.1414"W	12070.55	334.194	0.40	0.22	0.33	
20297.00	89.940	343.370	6771.31	12165.73	11047.26	-5310.76	1686133.47	14375044.89	39°35'6.6859"N	80°50'15.8541"W	12257.49	334.325	0.69	-0.10	0.68	
20391.00	89.720	341.380	6771.59	12259.71	11136.84	-5339.22	1686105.02	14375134.44	39°35'7.5717"N	80°50'16.2155"W	12350.56	334.386	2.13	-0.23	-2.12	
20486.00	89.940	341.680	6771.87	12354.71	11226.95	-5369.31	1686074.94	14375224.51	39°35'8.4628"N	80°50'16.5979"W	12444.83	334.440	0.39	0.23	0.32	
20580.00	89.940	341.710	6771.97	12448.71	11316.19	-5398.84	1686045.43	14375313.71	39°35'9.3454"N	80°50'16.9729"W	12538.08	334.495	0.03	0.00	0.03	
20675.00	90.030	341.980	6771.99	12543.70	11406.46	-5428.44	1686015.84	14375403.95	39°35'10.2380"N	80°50'17.3489"W	12632.31	334.550	0.30	0.09	0.28	
20769.00	90.280	342.500	6771.74	12637.69	11495.98	-5457.11	1685987.18	14375493.43	39°35'11.1233"N	80°50'17.7131"W	12725.47	334.606	0.61	0.27	0.55	
20864.00	90.220	341.860	6771.33	12732.68	11586.42	-5486.18	1685958.12	14375583.84	39°35'12.0177"N	80°50'18.0823"W	12819.65	334.662	0.68	-0.06	-0.67	
20958.00	89.940	341.870	6771.19	12826.68	11675.75	-5515.44	1685928.87	14375673.13	39°35'12.9010"N	80°50'18.4540"W	12912.91	334.715	0.30	-0.30	0.01	
21053.00	90.120	341.840	6771.14	12921.67	11766.03	-5545.03	1685899.30	14375763.37	39°35'13.7938"N	80°50'18.8298"W	13007.18	334.767	0.19	0.19	-0.03	
21147.00	90.180	341.800	6770.90	13015.67	11855.33	-5574.35	1685869.98	14375852.64	39°35'14.6769"N	80°50'19.2023"W	13100.47	334.817	0.08	0.06	-0.04	
21242.00	90.000	341.800	6770.75	13110.66	11945.58	-5604.03	1685840.32	14375942.85	39°35'15.5694"N	80°50'19.5793"W	13194.77	334.867	0.19	-0.19	0.00	
21336.00	89.970	341.780	6770.77	13204.66	12034.87	-5633.40	1685810.96	14376032.11	39°35'16.4524"N	80°50'19.9524"W	13288.09	334.916	0.04	-0.03	-0.02	
21431.00	90.000	341.770	6770.80	13299.66	12125.11	-5663.11	1685781.26	14376122.31	39°35'17.3447"N	80°50'20.3299"W	13382.42	334.965	0.03	0.03	-0.01	
21525.00	90.060	341.570	6770.75	13393.66	12214.34	-5692.67	1685751.71	14376211.50	39°35'18.2272"N	80°50'20.7054"W	13475.78	335.011	0.22	0.06	-0.21	
21620.00	90.120	341.660	6770.60	13488.66	12304.49	-5722.64	1685721.76	14376301.62	39°35'19.1187"N	80°50'21.0861"W	13570.15	335.058	0.11	0.06	0.09	
21714.00	90.060	341.680	6770.45	13582.65	12393.72	-5752.20	1685692.21	14376390.81	39°35'20.0011"N	80°50'21.4616"W	13663.53	335.103	0.07	-0.06	0.02	
21808.00	90.120	341.490	6770.30	13676.65	12482.90	-5781.89	1685662.52	14376479.96	39°35'20.8830"N	80°50'21.8389"W	13756.93	335.147	0.21	0.06	-0.20	
21903.00	90.030	341.720	6770.18	13771.65	12573.05	-5811.87	1685632.56	14376570.07	39°35'21.7745"N	80°50'22.2197"W	13851.33	335.191	0.26	-0.09	0.24	
21997.00	90.250	341.880	6769.95	13865.65	12662.35	-5841.23	1685603.21	14376659.34	39°35'22.6576"N	80°50'22.5927"W	13944.71	335.236	0.29	0.22	0.17	
22092.00	89.820	341.440	6769.89	13960.65	12752.52	-5871.12	1685573.33	14376749.47	39°35'23.5493"N	80°50'22.9725"W	14039.12	335.279	0.65	-0.45	-0.46	
22186.00	89.940	341.610	6770.09	14054.65	12841.68	-5900.91	1685543.55	14376838.59	39°35'24.4309"N	80°50'23.3509"W	14132.57	335.321	0.22	0.13	0.18	

RECEIVED
Office of Oil and Gas
JUL 29 2024
WV Department of
Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 10 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
22280.00	90.060	341.640	6770.09	14148.64	12930.88	-5930.54	1685513.93	14376927.76	39°35'25.3131"N	80°50'23.7274"W	14226.00	335.362	0.13	0.13	0.03	
22375.00	89.820	341.560	6770.19	14243.64	13021.03	-5960.53	1685483.96	14377017.87	39°35'26.2046"N	80°50'24.1084"W	14320.44	335.403	0.27	-0.25	-0.08	
22469.00	90.250	341.880	6770.13	14337.64	13110.28	-5990.01	1685454.49	14377107.09	39°35'27.0872"N	80°50'24.4830"W	14413.87	335.445	0.57	0.46	0.34	
22563.00	89.820	341.420	6770.07	14431.64	13199.50	-6019.61	1685424.91	14377196.28	39°35'27.9695"N	80°50'24.8589"W	14507.33	335.485	0.67	-0.46	-0.49	
22657.00	90.180	341.750	6770.07	14525.64	13288.69	-6049.30	1685395.22	14377285.43	39°35'28.8515"N	80°50'25.2362"W	14600.80	335.524	0.52	0.38	0.35	
22752.00	90.150	341.860	6769.80	14620.63	13378.94	-6078.96	1685365.57	14377375.64	39°35'29.7439"N	80°50'25.6131"W	14695.23	335.564	0.12	-0.03	0.12	
22846.00	90.400	341.490	6769.35	14714.63	13468.17	-6108.52	1685336.03	14377464.84	39°35'30.6264"N	80°50'25.9886"W	14788.70	335.603	0.48	0.27	-0.39	
22941.00	89.880	341.660	6769.12	14809.63	13558.30	-6138.54	1685306.01	14377554.93	39°35'31.5177"N	80°50'26.3701"W	14883.19	335.641	0.58	-0.55	0.18	
23035.00	90.090	341.900	6769.14	14903.63	13647.59	-6167.94	1685276.64	14377644.18	39°35'32.4006"N	80°50'26.7435"W	14976.65	335.680	0.34	0.22	0.26	
23224.00	90.370	341.520	6768.38	15092.62	13827.04	-6227.25	1685217.35	14377823.56	39°35'34.1752"N	80°50'27.4970"W	15164.62	335.755	0.25	0.15	-0.20	
23318.00	89.780	341.430	6768.26	15186.62	13916.17	-6257.11	1685187.49	14377912.65	39°35'35.0566"N	80°50'27.8765"W	15258.15	335.790	0.63	-0.63	-0.10	
23413.00	89.940	341.860	6768.49	15281.62	14006.33	-6287.03	1685157.59	14378002.78	39°35'35.9482"N	80°50'28.2566"W	15352.66	335.826	0.48	0.17	0.45	
23507.00	90.650	341.710	6768.01	15375.61	14095.62	-6316.41	1685128.22	14378092.04	39°35'36.8312"N	80°50'28.6299"W	15446.15	335.862	0.77	0.76	-0.16	
23601.00	90.220	341.730	6767.29	15469.61	14184.87	-6345.89	1685098.75	14378181.25	39°35'37.7138"N	80°50'29.0045"W	15539.66	335.898	0.46	-0.46	0.02	
23696.00	90.150	341.650	6766.99	15564.61	14275.06	-6375.74	1685068.91	14378271.41	39°35'38.6057"N	80°50'29.3837"W	15634.18	335.933	0.11	-0.07	-0.08	
23790.00	90.490	341.800	6766.46	15658.60	14364.32	-6405.21	1685039.45	14378360.63	39°35'39.4884"N	80°50'29.7583"W	15727.70	335.967	0.40	0.36	0.16	
23884.00	90.120	341.590	6765.96	15752.60	14453.56	-6434.74	1685009.94	14378449.84	39°35'40.3709"N	80°50'30.1334"W	15821.23	336.001	0.45	-0.39	-0.22	
23979.00	90.180	341.820	6765.71	15847.60	14543.76	-6464.56	1684980.13	14378540.00	39°35'41.2628"N	80°50'30.5123"W	15915.76	336.035	0.25	0.06	0.24	
24073.00	90.250	341.770	6765.36	15941.59	14633.05	-6493.93	1684950.78	14378629.26	39°35'42.1459"N	80°50'30.8854"W	16009.29	336.069	0.09	0.07	-0.05	
24167.00	90.180	341.330	6765.01	16035.59	14722.22	-6523.67	1684921.04	14378718.39	39°35'43.0276"N	80°50'31.2634"W	16102.86	336.101	0.47	-0.07	-0.47	
24262.00	90.150	341.930	6764.73	16130.59	14812.38	-6553.61	1684891.11	14378808.51	39°35'43.9192"N	80°50'31.6439"W	16197.42	336.133	0.63	-0.03	0.63	
24356.00	90.520	341.850	6764.19	16224.58	14901.72	-6582.83	1684861.90	14378897.82	39°35'44.8027"N	80°50'32.0151"W	16290.95	336.167	0.40	0.39	-0.09	
24450.00	90.120	341.730	6763.66	16318.58	14991.01	-6612.21	1684832.54	14378987.07	39°35'45.6857"N	80°50'32.3883"W	16384.50	336.199	0.44	-0.43	-0.13	
24544.00	90.180	341.870	6763.41	16412.58	15080.31	-6641.57	1684803.19	14379076.33	39°35'46.5687"N	80°50'32.7614"W	16478.05	336.231	0.16	0.06	0.15	
24639.00	90.370	341.990	6762.96	16507.57	15170.62	-6671.03	1684773.74	14379166.61	39°35'47.4618"N	80°50'33.1358"W	16572.58	336.263	0.24	0.20	0.13	
24733.00	90.150	341.680	6762.53	16601.57	15259.94	-6700.34	1684744.45	14379255.89	39°35'48.3450"N	80°50'33.5081"W	16666.14	336.295	0.40	-0.23	-0.33	
24827.00	90.370	341.970	6762.11	16695.56	15349.25	-6729.66	1684715.14	14379345.16	39°35'49.2282"N	80°50'33.8807"W	16759.70	336.326	0.39	0.23	0.31	
24921.00	90.370	341.660	6761.50	16789.56	15438.55	-6758.99	1684685.81	14379434.43	39°35'50.1113"N	80°50'34.2534"W	16853.27	336.356	0.33	0.00	-0.33	
25109.00	90.180	341.580	6760.60	16977.55	15527.96	-6788.27	1684656.56	14379523.77	39°35'51.0007"N	80°50'34.6267"W	16947.49	336.387	0.11	-0.10	-0.04	
25203.00	90.280	341.770	6760.22	17071.55	15617.19	-6817.55	1684627.31	14379613.11	39°35'51.8856"N	80°50'35.0007"W	17041.69	336.418	0.11	-0.10	-0.04	
25297.00	90.180	341.660	6759.80	17166.14	15706.42	-6846.83	1684598.06	14379702.45	39°35'52.7705"N	80°50'35.3750"W	17135.89	336.449	0.23	0.11	0.20	

RECEIVED
Office of Oil and Gas
JUL 29 2024
Environmental Protection
Department of



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 11 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

WELLPATH DATA (294 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
25297.00	90.150	342.030	6759.87	17165.54	15795.54	-6877.03	1684567.82	14379791.27	39°35'53.6415"N	80°50'35.7533"W	17227.67	336.473	0.31	-0.14	0.28	
25486.00	90.280	341.810	6759.16	17354.53	15975.20	-6935.68	1684509.19	14379970.87	39°35'55.4182"N	80°50'36.4986"W	17415.82	336.532	0.14	0.07	-0.12	
25580.00	90.430	341.760	6758.57	17448.53	16064.49	-6965.07	1684479.82	14380060.12	39°35'56.3012"N	80°50'36.8720"W	17509.43	336.560	0.17	0.16	-0.05	
25768.00	90.150	341.580	6757.62	17636.52	16242.95	-7024.19	1684420.72	14380238.51	39°35'58.0659"N	80°50'37.6233"W	17696.68	336.614	0.18	-0.15	-0.10	
25863.00	90.250	341.700	6757.29	17731.52	16333.11	-7054.11	1684390.81	14380328.64	39°35'58.9575"N	80°50'38.0036"W	17791.32	336.641	0.16	0.11	0.13	
25957.00	90.180	341.810	6756.94	17825.52	16422.39	-7083.54	1684361.39	14380417.87	39°35'59.8403"N	80°50'38.3776"W	17884.95	336.668	0.14	-0.07	0.12	
26145.00	90.220	341.840	6756.28	18013.51	16601.01	-7142.18	1684302.78	14380596.42	39°36'1.6067"N	80°50'39.1228"W	18072.19	336.721	0.03	0.02	0.02	
26240.00	90.310	341.920	6755.84	18108.50	16691.29	-7171.73	1684273.24	14380686.67	39°36'2.4995"N	80°50'39.4982"W	18166.81	336.748	0.13	0.09	0.08	
26334.00	90.150	340.690	6755.47	18202.50	16780.33	-7201.86	1684243.13	14380775.68	39°36'3.3800"N	80°50'39.8812"W	18260.51	336.772	1.32	-0.17	-1.31	
26429.00	90.220	340.500	6755.16	18297.49	16869.93	-7233.42	1684211.58	14380865.24	39°36'4.2661"N	80°50'40.2824"W	18355.30	336.792	0.21	0.07	-0.20	
26524.00	90.280	340.710	6754.74	18392.48	16959.54	-7264.97	1684180.04	14380954.82	39°36'5.1522"N	80°50'40.6835"W	18450.09	336.811	0.23	0.06	0.22	
26618.00	90.220	340.900	6754.33	18486.48	17048.32	-7295.87	1684149.15	14381043.55	39°36'6.0301"N	80°50'41.0763"W	18543.86	336.831	0.21	-0.06	0.20	
26712.00	90.310	340.600	6753.90	18580.47	17137.06	-7326.86	1684118.17	14381132.26	39°36'6.9077"N	80°50'41.4703"W	18637.64	336.851	0.33	0.10	-0.32	
26807.00	90.180	340.600	6753.49	18675.46	17226.66	-7358.42	1684086.63	14381221.83	39°36'7.7939"N	80°50'41.8714"W	18732.44	336.870	0.14	-0.14	0.00	
26901.00	90.090	340.930	6753.27	18769.46	17315.42	-7389.39	1684055.67	14381310.55	39°36'8.6715"N	80°50'42.2651"W	18826.22	336.890	0.36	-0.10	0.35	
26995.00	90.280	340.860	6752.97	18863.45	17404.24	-7420.15	1684024.92	14381399.33	39°36'9.5499"N	80°50'42.6562"W	18919.99	336.909	0.22	0.20	-0.07	
27090.00	90.250	340.990	6752.53	18958.45	17494.02	-7451.20	1683993.88	14381489.08	39°36'10.4378"N	80°50'43.0509"W	19014.76	336.929	0.14	-0.03	0.14	
27184.00	90.250	340.910	6752.12	19052.45	17582.87	-7481.88	1683963.22	14381577.90	39°36'11.3164"N	80°50'43.4409"W	19108.53	336.949	0.09	0.00	-0.09	
27278.00	90.250	341.030	6751.71	19146.45	17671.73	-7512.53	1683932.58	14381666.72	39°36'12.1952"N	80°50'43.8305"W	19202.30	336.969	0.13	0.00	0.13	
27372.00	90.180	341.010	6751.36	19240.44	17760.62	-7543.10	1683902.02	14381755.58	39°36'13.0742"N	80°50'44.2191"W	19296.06	336.989	0.08	-0.07	-0.02	
27466.00	90.370	341.180	6750.90	19334.44	17849.55	-7573.56	1683871.58	14381844.47	39°36'13.9536"N	80°50'44.6063"W	19389.82	337.009	0.27	0.20	0.18	
27561.00	90.120	340.940	6750.50	19429.44	17939.41	-7604.39	1683840.75	14381934.29	39°36'14.8422"N	80°50'44.9982"W	19484.59	337.028	0.36	-0.26	-0.25	
27607.00	90.120	341.010	6750.40	19475.44	17982.89	-7619.39	1683825.76	14381977.76	39°36'15.2722"N	80°50'45.1889"W	19530.48	337.038	0.15	0.00	0.15	
27632.00†	90.120	341.010	6750.35	19500.44	18006.53	-7627.52	1683817.63	14382001.39	39°36'15.5060"N	80°50'45.2923"W	19555.42	337.043	0.00	0.00	0.00	Projected MD at TD: 27632'

RECEIVED
 Office of Oil and Gas
 JUL 29 2024
 Environmental Protection
 Department of



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'

Page 12 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

HOLE & CASING SECTIONS - Ref Wellbore: Arenado Unit 1H AWB Ref Wellpath: Arenado Unit 1H AWP Proj: 27632'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	0.00	-0.63
17.5in Open Hole	130.00	378.00	248.00	130.00	377.99	0.00	-0.63	-0.42	-1.56
13.375in Casing Surface	30.00	358.00	328.00	30.00	357.99	0.00	0.00	-0.24	-1.66
12.25in Open Hole	378.00	3624.00	3246.00	377.99	3452.42	-0.42	-1.56	-894.12	-402.29
9.625in Casing Intermediate	30.00	3594.00	3564.00	30.00	3424.31	0.00	0.00	-884.61	-397.91
8.75in Open Hole	3624.00	5634.00	2010.00	3452.42	5270.55	-894.12	-402.29	-1654.74	-785.28
8.5in Open Hole	5634.00	27632.00	21998.00	5270.55	6750.35	-1654.74	-785.28	18006.53	-7627.52
5.5in Casing Production	30.00	27612.00	27582.00	30.00	6750.39	0.00	0.00	17987.62	-7621.01

RECEIVED
 Office of Oil and Gas
 JUL 29 2024
 W.V. Department of
 Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'
Page 13 of 14



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Arenado Unit 1H BHL Rev-4	6705.56	17908.77	-7609.16	1683835.99	14381903.66	39°36'14.5394"N	80°50'45.0598"W	point
Arenado Unit 1H POE Rev-2	6785.00	-1328.99	-1111.88	1690330.67	14362673.58	39°33'4.2903"N	80°49'22.5359"W	point
Arenado Unit 1H POE Rev-4	6816.00	-1070.88	-1199.06	1690243.53	14362931.59	39°33'6.8430"N	80°49'23.6423"W	point
Arenado Unit 1H LP Rev-4	6844.00	-878.21	-1264.13	1690178.49	14363124.18	39°33'8.7485"N	80°49'24.4682"W	point
Arenado Unit 1H 50' L/R Hard Line	7000.00	8289.89	-4360.52	1687083.33	14372288.62	39°34'39.4171"N	80°50'3.7822"W	rectangle
2D Rectangle 20305.3 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Arenado Unit 1H AWB Ref Wellpath: Arenado Unit 1H AWP Proj: 27632'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	379.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-379')	Arenado Unit 1H AWB	10/12/2023
379.00	3554.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (379')(502'-3554')	Arenado Unit 1H AWB	10/12/2023
3554.00	5558.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3554')(3673'-5558')	Arenado Unit 1H AWB	11/26/2023
5558.00	27632.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5558')(5596'-27607')	Arenado Unit 1H AWB	11/26/2023

RECEIVED
 Office of Oil and Gas
JUL 29 2024
 Wyoming Department of
 Environmental Protection



Actual Wellpath Report

Arenado Unit 1H AWP Proj: 27632'

Page 14 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arenado Unit 1H
Field	Wetzel	API	47-103-03600-0000
Facility	Big Run Pad	Wellbore	Arenado Unit 1H AWB
Slot	Slot C		

COMMENTS

Wellpath general comments

API: 47-103-03600-0000
BH Job #: 111994407
Rig: H&P 531
Duration: 11/29/2023-12/5/2023
Gyrodatta MS Gyro <17-1/2"> (100'-379')
APS EM <12-1/4"> (379')(502'-3554')
APS EM <8-3/4"> (3554')(3673'-5558')
BH AT Curve <8-1/2"> (5558')(5596'-27607')
Sycamore: 6986' MD
Middlesex: 7131' MD
Burkett: 7284' MD
Tully: 7321' MD
Marcellus POE: 7500' MD
Projected MD at TD: 27632'

RECEIVED
Office of Oil and Gas
JUL 29 2024
WV Department of
Environmental Protection