



ANTERO RESOURCES CORPORATION



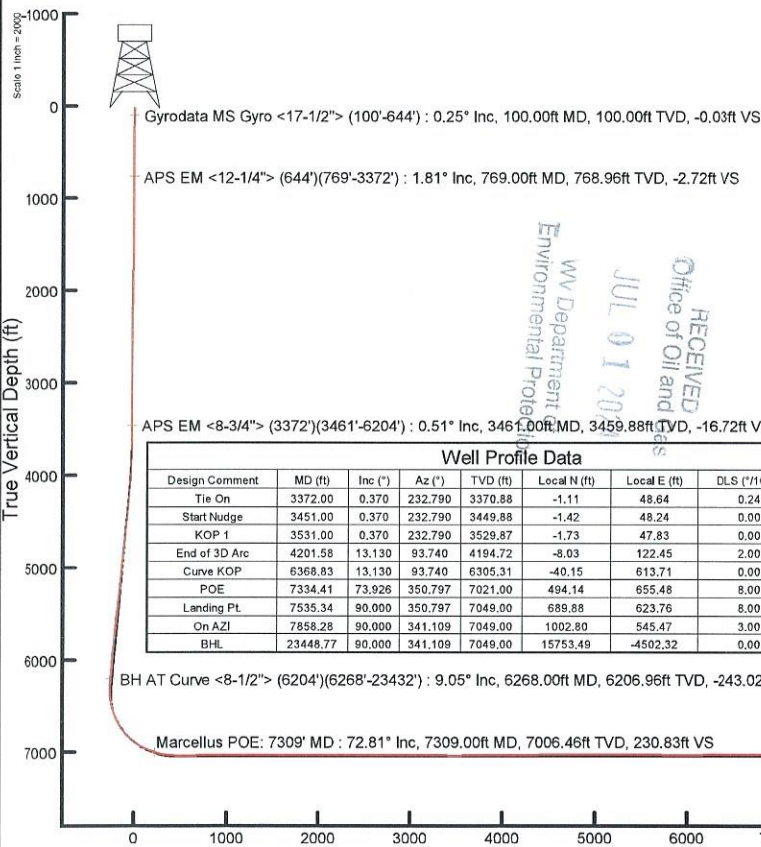
Location: Wetzell County, WV
 Field: Wetzell
 Facility: Furbee Pad

Slot: Slot I
 Well: Gauss Unit 1H
 Wellbore: Gauss Unit 1H PWB

Plot reference wellpath is Gauss Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1237.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot Slot I): -1212 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edhayan on 2023-12-15; Database: WA_MPL_EASTERNUS_Defn

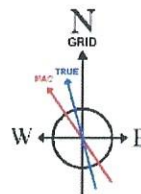
Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Furbee Pad	1716103.700	14364954.390	39°33'26.2100"N	80°43'53.2980"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot I	-258.65	125.47	1716229.120	14364695.840
Comment	Gauss Unit 1H			
H&P 317 (RKB) to Ground level (At Slot Slot I)	25.5ft			
Mean Sea Level to Ground level (At Slot Slot I)	-1212ft			
H&P 317 (RKB) to Mean Sea Level	1237.5ft			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot I	Gauss Unit 1H	Gauss Unit 1H AWB	Gauss Unit 1H AWP Proj: 23457
Slot I	Gauss Unit 1H	Gauss Unit 1H PWB	Gauss Unit 1H PWP Rev-B.0



API: 47-103-03585-0000
 BH Job #: 111949161
 Rig: H&P 317
 Duration: 12/3/2023-12/9/2023

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3372.00	0.370	232.790	3370.88	-1.11	48.64	-16.80
Start Nudge	3451.00	0.370	232.790	3449.88	-1.42	48.24	-16.96
KOP 1	3531.00	0.370	232.790	3529.87	-1.73	47.83	-17.12
End of 3D Arc	4201.58	13.130	93.740	4194.72	-8.03	122.45	-47.24
Curve KOP	6368.83	13.130	93.740	6305.31	-40.15	613.71	-236.68
POE	7334.41	73.926	350.797	7021.00	494.14	655.48	255.31
Landing Pt	7535.34	90.000	350.797	7049.00	689.88	623.76	450.78
On AZI	7858.28	90.000	341.109	7049.00	1002.80	545.47	772.19
BHL	23448.77	90.000	341.109	7049.00	15753.49	-4502.32	16362.67

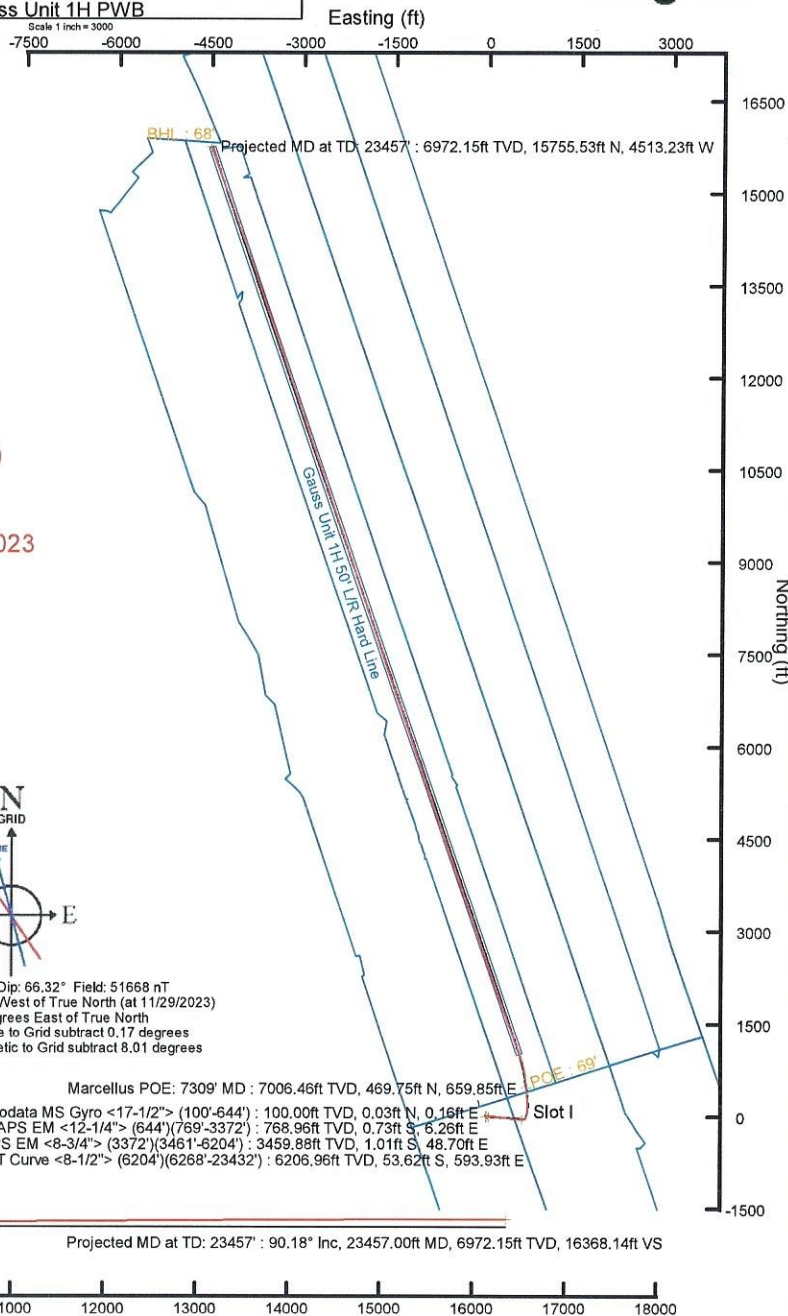


User specified (HDGM) Dip: 66.32° Field: 51668 nT
 Magnetic North is 7.84 degrees West of True North (at 11/29/2023)
 Grid North is 0.17 degrees East of True North
 To correct azimuth from True to Grid subtract 0.17 degrees
 To correct azimuth from Magnetic to Grid subtract 8.01 degrees

Marcellus POE: 7309' MD : 7006.46ft TVD, 469.75ft N, 659.85ft E
 Gyrodatta MS Gyro <17-1/2"> (100'-644') : 100.00ft TVD, 0.03ft N, 0.16ft E
 APS EM <12-1/4"> (644')(769'-3372') : 768.96ft TVD, 0.73ft S, 6.26ft E
 APS EM <8-3/4"> (3372')(3461'-6204') : 3459.88ft TVD, 1.01ft S, 48.70ft E
 BH AT Curve <8-1/2"> (6204')(6268'-23432') : 6206.96ft TVD, 53.62ft S, 593.93ft E

Projected MD at TD: 23457' : 90.18° Inc, 23457.00ft MD, 6972.15ft TVD, 16368.14ft VS

Vertical Section (ft)
 Azimuth 341.11° with reference 0.00 N, 0.00 E





Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	12/15/2023 at 1:32:37 AM
Convergence at slot	0.17° 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	-258.65	125.47	1716229.12	14364695.84	39°33'23.6500"N	80°43'51.7060"W
Facility Reference Pt			1716103.70	14364954.39	39°33'26.2100"N	80°43'53.2980"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	1237.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1237.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot I)	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	341.11°

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Page 2 of 13



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Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (255 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	80.600	0.00	0.00	0.00	1716229.12	14364695.84	39°33'23.6500"N	80°43'51.7060"W	0.00	0.000	0.00	0.00	0.00	
25.50		0.000	80.600	25.50	0.00	0.00	1716229.12	14364695.84	39°33'23.6500"N	80°43'51.7060"W	0.00	0.000	0.00	0.00	0.00	
100.00		0.250	80.600	100.00	-0.03	0.03	1716229.28	14364695.87	39°33'23.6503"N	80°43'51.7039"W	0.16	80.600	0.34	0.34	0.00	Gyrodata MS Gyro <17-1/2"> (100'-644')
200.00		0.280	104.630	200.00	-0.20	0.00	1716229.73	14364695.84	39°33'23.6500"N	80°43'51.6982"W	0.61	89.957	0.11	0.03	24.03	
300.00		0.420	106.930	300.00	-0.55	-0.17	1716230.32	14364695.67	39°33'23.6483"N	80°43'51.6907"W	1.21	97.975	0.14	0.14	2.30	
400.00		0.360	111.670	399.99	-0.97	-0.39	1716230.96	14364695.45	39°33'23.6461"N	80°43'51.6825"W	1.88	101.978	0.07	-0.06	4.74	
500.00		0.380	103.320	499.99	-1.35	-0.58	1716231.58	14364695.26	39°33'23.6442"N	80°43'51.6747"W	2.52	103.355	0.06	0.02	-8.35	
600.00		0.480	104.140	599.99	-1.75	-0.76	1716232.30	14364695.08	39°33'23.6424"N	80°43'51.6654"W	3.28	103.452	0.10	0.10	0.82	
644.00		0.650	101.040	643.99	-1.98	-0.85	1716232.73	14364694.99	39°33'23.6415"N	80°43'51.6600"W	3.71	103.324	0.39	0.39	-7.05	
769.00		1.810	82.470	768.96	-2.72	-0.73	1716235.38	14364695.11	39°33'23.6426"N	80°43'51.6261"W	6.30	96.665	0.97	0.93	-14.86	APS EM <12-1/4"> (644')(769'-3372')
858.00		2.590	73.650	857.89	-3.09	0.02	1716238.70	14364695.86	39°33'23.6499"N	80°43'51.5836"W	9.58	89.889	0.95	0.88	-9.91	
947.00		2.590	76.510	946.80	-3.36	1.05	1716242.58	14364696.89	39°33'23.6600"N	80°43'51.5340"W	13.51	85.527	0.15	0.00	3.21	
1132.00		3.290	68.820	1131.56	-3.55	3.95	1716251.60	14364699.79	39°33'23.6884"N	80°43'51.4188"W	22.83	80.044	0.43	0.38	-4.16	
1226.00		3.360	69.730	1225.40	-3.37	5.88	1716256.69	14364701.71	39°33'23.7073"N	80°43'51.3536"W	28.20	77.975	0.09	0.07	0.97	
1321.00		3.030	75.470	1320.25	-3.49	7.47	1716261.73	14364703.31	39°33'23.7229"N	80°43'51.2892"W	33.47	77.104	0.48	-0.35	6.04	
1415.00		2.590	74.620	1414.14	-3.81	8.66	1716266.18	14364704.49	39°33'23.7345"N	80°43'51.2323"W	38.08	76.859	0.47	-0.47	-0.90	
1510.00		2.720	74.480	1509.04	-4.08	9.83	1716270.42	14364705.67	39°33'23.7459"N	80°43'51.1781"W	42.47	76.619	0.14	0.14	-0.15	
1605.00		1.090	95.530	1603.98	-4.58	10.35	1716273.49	14364706.18	39°33'23.7510"N	80°43'51.1388"W	45.58	76.882	1.84	-1.72	22.16	
1699.00		1.190	118.970	1697.96	-5.68	9.79	1716275.24	14364705.62	39°33'23.7454"N	80°43'51.1166"W	47.16	78.024	0.50	0.11	24.94	
1794.00		0.800	160.180	1792.95	-7.07	8.68	1716276.32	14364704.52	39°33'23.7345"N	80°43'51.1028"W	48.02	79.580	0.83	-0.41	43.38	
1888.00		1.210	161.760	1886.93	-8.72	7.12	1716276.86	14364702.96	39°33'23.7190"N	80°43'51.0960"W	48.29	81.515	0.44	0.44	1.68	
1982.00		0.960	161.770	1980.92	-10.50	5.43	1716277.41	14364701.27	39°33'23.7023"N	80°43'51.0890"W	48.62	83.583	0.27	-0.27	0.01	
2077.00		1.120	166.240	2075.90	-12.22	3.78	1716277.88	14364699.61	39°33'23.6859"N	80°43'51.0830"W	48.93	85.574	0.19	0.17	4.71	
2172.00		0.770	162.620	2170.89	-13.78	2.27	1716278.30	14364698.10	39°33'23.6710"N	80°43'51.0778"W	49.25	87.364	0.37	-0.37	-3.81	
2266.00		0.270	85.770	2264.89	-14.47	1.68	1716278.70	14364697.52	39°33'23.6651"N	80°43'51.0726"W	49.63	88.062	0.80	-0.53	-81.76	
2361.00		0.170	134.740	2359.88	-14.65	1.60	1716279.03	14364697.44	39°33'23.6643"N	80°43'51.0685"W	49.95	88.169	0.21	-0.11	51.55	
2455.00		0.190	203.220	2453.88	-14.89	1.35	1716279.07	14364697.19	39°33'23.6619"N	80°43'51.0680"W	49.98	88.447	0.22	0.02	72.85	
2550.00		0.260	177.730	2548.88	-15.22	0.99	1716279.01	14364696.83	39°33'23.6584"N	80°43'51.0687"W	49.92	88.858	0.13	0.07	-26.83	
2644.00		0.100	166.110	2642.88	-15.50	0.70	1716279.04	14364696.54	39°33'23.6555"N	80°43'51.0684"W	49.94	89.195	0.17	-0.17	-12.36	
2738.00		0.180	179.650	2736.88	-15.73	0.47	1716279.06	14364696.31	39°33'23.6532"N	80°43'51.0681"W	49.96	89.456	0.09	0.09	14.40	

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Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 3 of 13



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Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (255 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
2833.00	0.160	184.380	2831.88	-15.99	0.19	49.95	1716279.05	14364696.03	39°33'23.6505"N	80°43'51.0683"W	49.95	89.778	0.03	-0.02	4.98	
2927.00	0.170	258.180	2925.88	-16.09	0.03	49.80	1716278.91	14364695.87	39°33'23.6489"N	80°43'51.0701"W	49.80	89.961	0.21	0.01	78.51	
3021.00	0.260	211.200	3019.88	-16.21	-0.18	49.56	1716278.66	14364695.66	39°33'23.6468"N	80°43'51.0733"W	49.56	90.205	0.20	0.10	-49.98	
3116.00	0.190	185.400	3114.88	-16.49	-0.52	49.43	1716278.53	14364695.32	39°33'23.6434"N	80°43'51.0749"W	49.43	90.601	0.13	-0.07	-27.16	
3305.00	0.270	256.040	3303.88	-16.74	-0.94	48.97	1716278.07	14364694.90	39°33'23.6393"N	80°43'51.0808"W	48.98	91.097	0.14	0.04	37.38	
3372.00	0.370	232.790	3370.88	-16.80	-1.11	48.64	1716277.75	14364694.73	39°33'23.6376"N	80°43'51.0850"W	48.66	91.303	0.24	0.15	-34.70	
3461.00	0.510	46.270	3459.88	-16.72	-1.01	48.70	1716277.80	14364694.83	39°33'23.6386"N	80°43'51.0843"W	48.71	91.184	0.99	0.16	194.92	APS EM <8-3/4"> (3372')(3461'-6204')
3556.00	2.400	71.000	3554.84	-16.54	-0.07	50.89	1716279.99	14364695.77	39°33'23.6479"N	80°43'51.0563"W	50.89	90.075	2.05	1.99	26.03	
3650.00	3.970	77.810	3648.70	-16.91	1.26	55.93	1716285.03	14364697.10	39°33'23.6608"N	80°43'50.9919"W	55.94	88.708	1.72	1.67	7.24	
3745.00	5.820	78.970	3743.34	-17.96	2.88	63.87	1716292.97	14364698.72	39°33'23.6766"N	80°43'50.8904"W	63.94	87.421	1.95	1.95	1.22	
3842.00	7.150	86.900	3839.72	-20.27	4.14	74.73	1716303.82	14364699.98	39°33'23.6888"N	80°43'50.7518"W	74.84	86.825	1.65	1.37	8.18	
3936.00	7.660	97.140	3932.94	-24.61	3.68	86.79	1716315.87	14364699.52	39°33'23.6838"N	80°43'50.5978"W	86.86	87.570	1.50	0.54	10.89	
4031.00	8.670	97.380	4026.98	-30.56	1.98	100.17	1716329.25	14364697.81	39°33'23.6666"N	80°43'50.4270"W	100.19	88.870	1.06	1.06	0.25	
4125.00	10.190	99.310	4119.71	-37.63	-0.28	115.40	1716344.48	14364695.56	39°33'23.6438"N	80°43'50.2326"W	115.40	90.139	1.65	1.62	2.05	
4220.00	11.430	95.930	4213.02	-45.55	-2.61	133.06	1716362.13	14364693.23	39°33'23.6203"N	80°43'50.0073"W	133.09	91.125	1.47	1.31	-3.56	
4314.00	12.510	94.640	4304.97	-53.52	-4.40	152.47	1716381.53	14364691.44	39°33'23.6020"N	80°43'49.7596"W	152.53	91.652	1.18	1.15	-1.37	
4409.00	12.190	100.340	4397.78	-62.53	-7.03	172.59	1716401.65	14364688.81	39°33'23.5754"N	80°43'49.5027"W	172.74	92.333	1.33	-0.34	6.00	
4504.00	12.650	96.050	4490.56	-71.81	-9.93	192.81	1716421.85	14364685.92	39°33'23.5462"N	80°43'49.2448"W	193.06	92.947	1.08	0.48	-4.52	
4598.00	13.500	92.880	4582.12	-80.22	-11.56	214.00	1716443.04	14364684.28	39°33'23.5294"N	80°43'48.9743"W	214.31	93.093	1.18	0.90	-3.37	
4693.00	13.440	95.500	4674.51	-88.90	-13.18	236.06	1716465.09	14364682.67	39°33'23.5128"N	80°43'48.6926"W	236.43	93.195	0.65	-0.06	2.76	
4788.00	13.200	100.710	4766.96	-98.81	-16.25	257.71	1716486.73	14364679.59	39°33'23.4818"N	80°43'48.4164"W	258.22	93.609	1.29	-0.25	5.48	
4883.00	13.350	96.120	4859.42	-108.81	-19.44	279.28	1716508.29	14364676.41	39°33'23.4496"N	80°43'48.1412"W	279.95	93.981	1.12	0.16	-4.83	
4977.00	14.150	93.970	4950.73	-117.86	-21.39	301.53	1716530.53	14364674.46	39°33'23.4297"N	80°43'47.8572"W	302.29	94.058	1.01	0.85	-2.29	
5072.00	13.130	97.190	5043.05	-127.11	-23.54	323.82	1716552.81	14364672.30	39°33'23.4077"N	80°43'47.5727"W	324.67	94.159	1.34	-1.07	3.39	
5163.00	11.280	101.490	5131.99	-136.16	-26.61	342.80	1716571.78	14364669.24	39°33'23.3769"N	80°43'47.3305"W	343.83	94.439	2.26	-2.03	4.73	
5258.00	12.580	99.480	5224.94	-145.77	-30.17	362.11	1716591.08	14364665.69	39°33'23.3412"N	80°43'47.0841"W	363.36	94.762	1.44	1.37	-2.12	
5352.00	13.390	94.410	5316.53	-154.94	-32.69	383.06	1716612.03	14364663.16	39°33'23.3156"N	80°43'46.8167"W	384.45	94.878	1.49	0.86	-5.39	
5447.00	15.400	95.390	5408.55	-164.48	-34.72	406.59	1716635.55	14364661.13	39°33'23.2948"N	80°43'46.5164"W	408.07	94.881	2.13	2.12	1.03	
5544.00	16.580	97.140	5501.79	-175.85	-37.65	433.14	1716662.09	14364658.20	39°33'23.2651"N	80°43'46.1775"W	434.78	94.968	1.31	1.22	1.80	
5639.00	14.300	92.330	5593.36	-186.05	-39.81	458.32	1716687.26	14364656.04	39°33'23.2430"N	80°43'45.8562"W	460.04	94.965	2.75	-2.40	-5.06	



Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 4 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWP
Slot	Slot I		

WELLPATH DATA (255 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
5733.00	14.780	96.910	5684.35	-195.47	-41.73	481.82	1716710.75	14364654.13	39°33'23.2233"N	80°43'45.5562"W	483.62	94.950	1.33	0.51	4.87	
5828.00	14.950	92.780	5776.18	-205.27	-43.78	506.09	1716735.01	14364652.08	39°33'23.2023"N	80°43'45.2464"W	507.98	94.944	1.13	0.18	-4.35	
5923.00	13.750	98.830	5868.22	-215.05	-46.11	529.49	1716758.40	14364649.75	39°33'23.1786"N	80°43'44.9478"W	531.49	94.977	2.02	-1.26	6.37	
6017.00	11.490	94.400	5959.94	-223.95	-48.54	549.87	1716778.77	14364647.32	39°33'23.1540"N	80°43'44.6877"W	552.00	95.045	2.61	-2.40	-4.71	
6112.00	10.130	91.910	6053.25	-230.65	-49.54	567.65	1716796.55	14364646.31	39°33'23.1435"N	80°43'44.4607"W	569.81	94.988	1.51	-1.43	-2.62	
6204.00	10.020	100.210	6143.84	-237.42	-51.23	583.61	1716812.50	14364644.63	39°33'23.1264"N	80°43'44.2569"W	585.86	95.017	1.58	-0.12	9.02	
6268.00	9.050	106.120	6206.96	-243.02	-53.62	593.93	1716822.82	14364642.24	39°33'23.1025"N	80°43'44.1253"W	596.35	95.158	2.15	-1.52	9.23	BH AT Curve <8-1/2"> (6204')(6268'-23432')
6362.00	12.890	80.120	6299.28	-248.91	-53.87	611.38	1716840.26	14364641.99	39°33'23.0995"N	80°43'43.9026"W	613.75	95.036	6.57	4.09	-27.66	
6455.00	14.400	55.670	6389.72	-247.45	-45.56	631.16	1716860.04	14364650.30	39°33'23.1810"N	80°43'43.6496"W	632.81	94.129	6.36	1.62	-26.29	
6549.00	18.360	33.300	6479.98	-235.25	-26.57	648.97	1716877.83	14364669.28	39°33'23.3682"N	80°43'43.4216"W	649.51	92.345	7.85	4.21	-23.80	
6644.00	23.140	21.790	6568.83	-211.89	3.30	664.13	1716892.99	14364699.14	39°33'23.6629"N	80°43'43.2269"W	664.14	89.716	6.59	5.03	-12.12	
6739.00	28.230	13.900	6654.44	-178.82	42.48	676.47	1716905.32	14364738.30	39°33'24.0498"N	80°43'43.0679"W	677.80	86.407	6.44	5.36	-8.31	
6763.00†	29.888	10.069	6675.42	-168.81	53.88	678.88	1716907.73	14364749.69	39°33'24.1623"N	80°43'43.0367"W	681.01	85.462	10.38	6.91	-15.96	Sycamore: 6763' MD
6833.00	35.240	0.900	6734.43	-134.50	91.29	682.25	1716911.10	14364787.10	39°33'24.5320"N	80°43'42.9922"W	688.33	82.379	10.38	7.65	-13.10	
6916.00†	40.986	358.613	6799.71	-85.97	142.49	681.96	1716910.81	14364838.27	39°33'25.0380"N	80°43'42.9938"W	696.69	78.198	7.13	6.92	-2.76	Middlesex: 6916' MD
6927.00	41.750	358.350	6807.97	-79.03	149.76	681.77	1716910.62	14364845.54	39°33'25.1099"N	80°43'42.9960"W	698.03	77.611	7.13	6.95	-2.39	
7022.00	50.360	358.360	6873.83	-13.77	218.07	679.81	1716908.66	14364913.82	39°33'25.7850"N	80°43'43.0184"W	713.93	72.215	9.06	9.06	0.01	
7061.00†	53.951	356.961	6897.75	15.75	248.83	678.54	1716907.40	14364944.57	39°33'26.0891"N	80°43'43.0334"W	722.73	69.861	9.63	9.21	-3.59	Burkett: 7061' MD
7115.00†	58.947	355.220	6927.59	59.21	293.71	675.46	1716904.31	14364989.43	39°33'26.5328"N	80°43'43.0711"W	736.55	66.499	9.63	9.25	-3.22	Tully: 7115' MD
7116.00	59.040	355.190	6928.11	60.04	294.56	675.39	1716904.24	14364990.29	39°33'26.5412"N	80°43'43.0720"W	736.83	66.436	9.63	9.27	-3.04	
7198.00†	65.022	354.972	6966.55	130.29	366.69	669.18	1716898.03	14365062.38	39°33'27.2542"N	80°43'43.1485"W	763.06	61.279	7.30	7.29	-0.27	Hamilton: 7198' MD
7211.00	65.970	354.940	6971.94	141.78	378.47	668.14	1716896.99	14365074.16	39°33'27.3707"N	80°43'43.1613"W	767.88	60.470	7.30	7.29	-0.25	
7305.00	72.480	354.700	7005.26	227.12	465.95	660.20	1716889.06	14365161.61	39°33'28.2355"N	80°43'43.2592"W	808.07	54.787	6.93	6.93	-0.26	
7309.00†	72.813	354.684	7006.46	230.83	469.75	659.85	1716888.71	14365165.41	39°33'28.2731"N	80°43'43.2636"W	809.98	54.552	8.32	8.32	-0.39	Marcellus POE: 7309' MD
7400.00	80.380	354.330	7027.53	316.88	557.80	651.38	1716880.24	14365253.42	39°33'29.1436"N	80°43'43.3684"W	857.58	49.425	8.32	8.32	-0.39	
7495.00	86.640	351.320	7038.27	409.25	651.40	639.58	1716888.44	14365346.98	39°33'30.0689"N	80°43'43.5154"W	912.89	44.475	7.30	6.59	-3.17	
7589.00	90.370	348.200	7040.72	502.12	743.84	622.88	1716851.75	14365439.39	39°33'30.9831"N	80°43'43.7251"W	970.19	39.942	5.17	3.97	-3.32	
7684.00	90.370	345.110	7040.11	596.66	836.26	600.95	1716829.83	14365531.77	39°33'31.8971"N	80°43'44.0014"W	1029.79	35.702	3.25	0.00	-3.25	
7779.00	90.650	342.550	7039.26	691.54	927.49	574.50	1716803.39	14365622.96	39°33'32.7996"N	80°43'44.3357"W	1091.00	31.775	2.71	0.29	-2.69	
7873.00	90.650	339.820	7038.20	785.53	1016.45	544.19	1716773.09	14365711.89	39°33'33.6797"N	80°43'44.7193"W	1152.96	28.164	2.90	0.00	-2.90	

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Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'

Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gauss Unit 1H
Field	Wetzel		API	47-103-03585-0000
Facility	Furbee Pad		Wellbore	Gauss Unit 1H AWP
Slot	Slot I			

WELLPATH DATA (255 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
7968.00	90.060	339.540	7037.61	880.50	1105.54	511.20	1716740.12	14365800.94	39°33'34.5612"N	80°43'45.1370"W	1218.01	24.816	0.69	-0.62	-0.29	
8062.00	91.020	340.520	7036.72	974.47	1193.88	479.10	1716708.03	14365889.25	39°33'35.4352"N	80°43'45.5435"W	1286.42	21.865	1.46	1.02	1.04	
8157.00	90.990	341.170	7035.06	1069.46	1283.61	447.93	1716676.87	14365978.94	39°33'36.3229"N	80°43'45.9380"W	1359.52	19.237	0.68	-0.03	0.68	
8252.00	89.780	338.030	7034.42	1164.41	1372.64	414.82	1716643.78	14366067.93	39°33'37.2038"N	80°43'46.3573"W	1433.95	16.815	3.54	-1.27	-3.31	
8346.00	90.250	339.700	7034.39	1258.33	1460.31	380.93	1716609.90	14366155.57	39°33'38.0713"N	80°43'46.7866"W	1509.17	14.620	1.85	0.50	1.78	
8441.00	90.030	339.490	7034.16	1353.30	1549.35	347.81	1716576.79	14366244.57	39°33'38.9523"N	80°43'47.2061"W	1587.91	12.652	0.32	-0.23	-0.22	
8535.00	89.910	340.590	7034.21	1447.28	1637.70	315.72	1716544.71	14366332.89	39°33'39.8264"N	80°43'47.6124"W	1667.85	10.912	1.18	-0.13	1.17	
8630.00	89.630	339.590	7034.59	1542.26	1727.02	283.37	1716512.38	14366422.18	39°33'40.7101"N	80°43'48.0221"W	1750.11	9.318	1.09	-0.29	-1.05	
8724.00	89.820	340.650	7035.04	1636.25	1815.42	251.40	1716480.42	14366510.54	39°33'41.5847"N	80°43'48.4268"W	1832.74	7.884	1.15	0.20	1.13	
8818.00	90.250	341.320	7034.98	1730.25	1904.29	220.78	1716449.81	14366599.37	39°33'42.4639"N	80°43'48.8144"W	1917.04	6.613	0.85	0.46	0.71	
8912.00	88.980	339.680	7035.62	1824.23	1992.89	189.40	1716418.45	14366687.94	39°33'43.3405"N	80°43'49.2116"W	2001.87	5.429	2.21	-1.35	-1.74	
9007.00	89.940	340.660	7036.51	1919.21	2082.25	157.18	1716386.24	14366777.26	39°33'44.2247"N	80°43'49.6196"W	2088.17	4.317	1.44	1.01	1.03	
9101.00	90.150	341.120	7036.44	2013.21	2171.07	126.40	1716355.47	14366866.05	39°33'45.1034"N	80°43'50.0092"W	2174.74	3.332	0.54	0.22	0.49	
9195.00	89.780	340.430	7036.49	2107.21	2259.82	95.45	1716324.53	14366954.77	39°33'45.9815"N	80°43'50.4010"W	2261.84	2.419	0.83	-0.39	-0.73	
9289.00	90.180	340.920	7036.53	2201.21	2348.53	64.34	1716293.44	14367043.44	39°33'46.8591"N	80°43'50.7948"W	2349.41	1.569	0.67	0.43	0.52	
9383.00	90.220	341.220	7036.20	2295.21	2437.44	33.85	1716262.96	14367132.32	39°33'47.7388"N	80°43'51.1807"W	2437.68	0.796	0.32	0.04	0.32	
9478.00	90.220	340.990	7035.83	2390.21	2527.32	3.09	1716232.21	14367222.16	39°33'48.6280"N	80°43'51.5701"W	2527.32	0.070	0.24	0.00	-0.24	
9572.00	90.400	341.850	7035.33	2484.20	2616.42	-26.86	1716202.27	14367311.23	39°33'49.5095"N	80°43'51.9491"W	2616.56	359.412	0.93	0.19	0.91	
9667.00	89.320	341.050	7035.56	2579.20	2706.48	-57.09	1716172.06	14367401.25	39°33'50.4005"N	80°43'52.3316"W	2707.09	358.792	1.41	-1.14	-0.84	
9761.00	89.940	341.130	7036.17	2673.20	2795.41	-87.55	1716141.61	14367490.14	39°33'51.2802"N	80°43'52.7171"W	2796.78	358.206	0.67	0.66	0.09	
9856.00	89.510	341.640	7036.62	2768.19	2885.44	-117.87	1716111.29	14367580.14	39°33'52.1709"N	80°43'53.1009"W	2887.84	357.661	0.70	-0.45	0.54	
9950.00	89.820	341.250	7037.17	2862.19	2974.55	-147.78	1716081.39	14367669.21	39°33'53.0525"N	80°43'53.4794"W	2978.22	357.156	0.53	0.33	-0.41	
10045.00	89.600	341.450	7037.65	2957.19	3064.56	-178.16	1716051.03	14367759.19	39°33'53.9430"N	80°43'53.8639"W	3069.73	356.673	0.31	-0.23	0.21	
10139.00	89.910	341.450	7038.05	3051.19	3153.67	-208.07	1716021.13	14367848.27	39°33'54.8246"N	80°43'54.2423"W	3160.53	356.225	0.33	0.33	0.00	
10234.00	89.780	338.540	7038.31	3146.16	3242.93	-240.56	1715988.65	14367937.49	39°33'55.7077"N	80°43'54.6539"W	3251.84	355.758	3.07	-0.14	-3.06	
10328.00	89.600	341.740	7038.82	3240.13	3331.33	-272.49	1715956.73	14368025.85	39°33'56.5823"N	80°43'55.0582"W	3342.45	355.324	3.41	-0.19	3.40	
10422.00	90.120	340.880	7039.05	3334.13	3420.37	-302.62	1715926.62	14368114.86	39°33'57.4632"N	80°43'55.4394"W	3433.73	354.944	1.07	0.55	-0.91	
10516.00	89.420	342.200	7039.43	3428.12	3509.53	-332.38	1715896.87	14368203.98	39°33'58.3452"N	80°43'55.8161"W	3525.23	354.590	1.59	-0.74	1.40	
10610.00	90.430	340.220	7039.55	3522.12	3598.51	-362.65	1715866.61	14368292.93	39°33'59.2256"N	80°43'56.1993"W	3616.74	354.245	2.36	1.07	-2.11	
10703.00	90.090	341.460	7039.13	3615.11	3686.36	-393.18	1715836.10	14368380.74	39°34'0.0947"N	80°43'56.5857"W	3707.27	353.912	1.38	-0.37	1.33	



Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'

Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Gauss Unit 1H
Field	Wetzel		API	47-103-03585-0000
Facility	Furbee Pad		Wellbore	Gauss Unit 1H AWB
Slot	Slot I			

WELLPATH DATA (255 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
10798.00	89.970	340.930	7039.08	3710.11	3776.29	-423.80	1715805.49	14368470.64	39°34'0.9844"N	80°43'56.9733"W	3800.00	353.597	0.57	-0.13	-0.56	
10892.00	91.420	342.560	7037.94	3804.09	3865.55	-453.24	1715776.06	14368559.86	39°34'1.8674"N	80°43'57.3458"W	3892.03	353.313	2.32	1.54	1.73	
10986.00	90.150	340.070	7036.65	3898.07	3954.57	-483.35	1715745.96	14368648.85	39°34'2.7482"N	80°43'57.7269"W	3984.00	353.032	2.97	-1.35	-2.65	
11081.00	90.400	341.270	7036.19	3993.07	4044.22	-514.79	1715714.53	14368738.46	39°34'3.6350"N	80°43'58.1250"W	4076.85	352.746	1.29	0.26	1.26	
11175.00	90.710	341.030	7035.28	4087.06	4133.17	-545.16	1715684.17	14368827.38	39°34'4.5151"N	80°43'58.5095"W	4168.97	352.486	0.42	0.33	-0.26	
11270.00	90.490	341.280	7034.29	4182.06	4223.07	-575.85	1715653.50	14368917.24	39°34'5.4045"N	80°43'58.8979"W	4262.15	352.235	0.35	-0.23	0.26	
11364.00	90.460	341.300	7033.51	4276.05	4312.10	-606.00	1715623.36	14369006.24	39°34'6.2853"N	80°43'59.2795"W	4354.48	352.000	0.04	-0.03	0.02	
11459.00	90.310	341.380	7032.87	4371.05	4402.11	-636.39	1715592.98	14369096.21	39°34'7.1757"N	80°43'59.6642"W	4447.87	351.774	0.18	-0.16	0.08	
11553.00	90.180	340.210	7032.47	4465.05	4490.87	-667.31	1715562.07	14369184.94	39°34'8.0539"N	80°43'59.0557"W	4540.18	351.548	1.25	-0.14	-1.24	
11647.00	90.430	341.630	7031.97	4559.04	4579.71	-698.04	1715531.35	14369273.73	39°34'8.9327"N	80°44'0.4447"W	4632.60	351.334	1.53	0.27	1.51	
11742.00	90.030	340.420	7031.59	4654.04	4669.54	-728.93	1715500.48	14369363.53	39°34'9.8215"N	80°44'0.8357"W	4726.09	351.128	1.34	-0.42	-1.27	
11836.00	91.080	339.740	7030.68	4748.02	4757.91	-760.95	1715468.47	14369451.87	39°34'10.6958"N	80°44'1.2413"W	4818.38	350.913	1.33	1.12	-0.72	
11931.00	90.430	341.290	7029.42	4843.00	4847.46	-792.64	1715436.79	14369541.38	39°34'11.5818"N	80°44'1.6425"W	4911.84	350.713	1.77	-0.68	1.63	
12025.00	90.580	341.580	7028.60	4937.00	4936.56	-822.57	1715406.88	14369630.45	39°34'12.4633"N	80°44'2.0213"W	5004.63	350.540	0.35	0.16	0.31	
12119.00	90.950	341.890	7027.34	5030.98	5025.82	-852.02	1715377.43	14369719.67	39°34'13.3463"N	80°44'2.3941"W	5097.53	350.378	0.51	0.39	0.33	
12214.00	89.450	342.360	7027.01	5125.96	5116.23	-881.18	1715348.29	14369810.05	39°34'14.2407"N	80°44'2.7630"W	5191.56	350.228	1.65	-1.58	0.49	
12308.00	89.600	341.390	7027.79	5219.95	5205.56	-910.42	1715319.06	14369899.34	39°34'15.1244"N	80°44'3.1330"W	5284.58	350.080	1.04	0.16	-1.03	
12403.00	89.110	341.200	7028.86	5314.94	5295.54	-940.89	1715288.61	14369989.28	39°34'16.0146"N	80°44'3.5187"W	5378.47	349.925	0.55	-0.52	-0.20	
12498.00	89.780	341.480	7029.78	5409.94	5385.54	-971.28	1715258.22	14370079.25	39°34'16.9049"N	80°44'3.9034"W	5472.42	349.777	0.76	0.71	0.29	
12592.00	89.480	341.670	7030.39	5503.93	5474.72	-1000.99	1715228.53	14370168.39	39°34'17.7872"N	80°44'4.2794"W	5565.48	349.639	0.38	-0.32	0.20	
12687.00	89.450	341.180	7031.27	5598.93	5564.77	-1031.25	1715198.28	14370258.41	39°34'18.6780"N	80°44'4.6624"W	5659.51	349.501	0.52	-0.03	-0.52	
12782.00	89.420	341.290	7032.21	5693.92	5654.71	-1061.81	1715167.73	14370348.32	39°34'19.5679"N	80°44'5.0493"W	5753.54	349.365	0.12	-0.03	0.12	
12876.00	89.170	341.910	7033.37	5787.91	5743.90	-1091.48	1715138.07	14370437.47	39°34'20.4502"N	80°44'5.4248"W	5846.68	349.241	0.71	-0.27	0.66	
12971.00	89.450	342.010	7034.51	5882.89	5834.22	-1120.90	1715108.67	14370527.76	39°34'21.3437"N	80°44'5.7970"W	5940.92	349.125	0.31	0.29	0.11	
13065.00	90.770	342.000	7034.33	5976.88	5923.62	-1149.93	1715079.64	14370617.12	39°34'22.2281"N	80°44'6.1645"W	6034.21	349.014	1.40	1.40	-0.01	
13159.00	90.280	341.440	7033.47	6070.87	6012.87	-1179.42	1715050.17	14370706.34	39°34'23.1111"N	80°44'6.5376"W	6127.45	348.902	0.79	-0.52	-0.60	
13254.00	90.550	342.110	7032.78	6165.86	6103.11	-1209.13	1715020.47	14370796.53	39°34'24.0037"N	80°44'6.9137"W	6221.73	348.794	0.76	0.28	0.71	
13348.00	90.220	341.810	7032.15	6259.85	6192.48	-1238.24	1714991.37	14370885.87	39°34'24.8879"N	80°44'7.2820"W	6315.07	348.692	0.47	-0.35	-0.32	
13443.00	90.550	341.370	7031.51	6354.84	6282.62	-1268.24	1714961.38	14370975.97	39°34'25.7796"N	80°44'7.6618"W	6409.35	348.587	0.58	0.35	-0.46	
13538.00	90.120	341.650	7030.95	6449.84	6372.71	-1298.37	1714931.27	14371066.03	39°34'26.6709"N	80°44'8.0431"W	6503.63	348.484	0.54	-0.45	0.29	

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Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'

Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		
Field	Wetzel		
Facility	Furbee Pad		
Slot	Slot I		
Well	Gauss Unit 1H		
API	47-103-03585-0000		
Wellbore	Gauss Unit 1H AWB		

WELLPATH DATA (255 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
13632.00	89.940	340.890	7030.91	6543.84	6461.73	-1328.55	1714901.10	14371155.02	39°34'27.5516"N	80°44'8.4252"W	6596.90	348.382	0.83	-0.19	-0.81	
13727.00	90.120	340.910	7030.86	6638.84	6551.50	-1359.64	1714870.02	14371244.75	39°34'28.4397"N	80°44'8.8188"W	6691.10	348.276	0.19	0.19	0.02	
13821.00	90.310	340.700	7030.50	6732.83	6640.28	-1390.54	1714839.13	14371333.49	39°34'29.3180"N	80°44'9.2102"W	6784.31	348.173	0.30	0.20	-0.22	
13916.00	90.340	341.380	7029.96	6827.83	6730.12	-1421.41	1714808.28	14371423.30	39°34'30.2068"N	80°44'9.6010"W	6878.58	348.074	0.72	0.03	0.72	
14010.00	90.030	341.630	7029.66	6921.83	6819.26	-1451.22	1714778.47	14371512.41	39°34'31.0887"N	80°44'9.9784"W	6971.97	347.986	0.42	-0.33	0.27	
14105.00	89.780	339.980	7029.82	7016.82	6908.98	-1482.46	1714747.25	14371602.09	39°34'31.9763"N	80°44'10.3739"W	7066.24	347.890	1.76	-0.26	-1.74	
14199.00	90.400	341.400	7029.67	7110.82	6997.69	-1513.54	1714716.18	14371690.76	39°34'32.8539"N	80°44'10.7676"W	7159.50	347.795	1.65	0.66	1.51	
14294.00	90.000	341.460	7029.34	7205.82	7087.74	-1543.79	1714685.94	14371780.78	39°34'33.7448"N	80°44'11.1506"W	7253.92	347.712	0.43	-0.42	0.06	
14388.00	90.120	340.560	7029.24	7299.82	7176.63	-1574.38	1714655.36	14371869.63	39°34'34.6241"N	80°44'11.5378"W	7347.29	347.627	0.97	0.13	-0.96	
14482.00	90.340	341.400	7028.86	7393.81	7265.49	-1605.02	1714624.74	14371958.46	39°34'35.5033"N	80°44'11.9257"W	7440.66	347.543	0.92	0.23	0.89	
14577.00	89.480	341.260	7029.01	7488.81	7355.49	-1635.43	1714594.34	14372048.42	39°34'36.3937"N	80°44'12.3107"W	7535.11	347.465	0.92	-0.91	-0.15	
14671.00	90.620	342.020	7028.93	7582.81	7444.70	-1665.04	1714564.74	14372137.60	39°34'37.2762"N	80°44'12.6855"W	7628.63	347.393	1.46	1.21	0.81	
14766.00	89.630	341.350	7028.72	7677.80	7534.89	-1694.89	1714534.90	14372227.75	39°34'38.1684"N	80°44'13.0634"W	7723.16	347.323	1.26	-1.04	-0.71	
14860.00	90.710	341.920	7028.44	7771.79	7624.10	-1724.50	1714505.30	14372316.93	39°34'39.0510"N	80°44'13.4383"W	7816.70	347.255	1.30	1.15	0.61	
14955.00	90.180	341.200	7027.71	7866.79	7714.22	-1754.55	1714475.26	14372407.01	39°34'39.9425"N	80°44'13.8187"W	7911.23	347.186	0.94	-0.56	-0.76	
15049.00	90.250	341.070	7027.35	7960.79	7803.17	-1784.95	1714444.88	14372495.92	39°34'40.8225"N	80°44'14.2035"W	8004.72	347.115	0.16	0.07	-0.14	
15238.00	89.880	340.880	7027.14	8149.78	7981.84	-1846.56	1714383.29	14372674.53	39°34'42.5901"N	80°44'14.9837"W	8192.66	346.974	0.22	-0.20	-0.10	
15332.00	90.650	341.740	7026.70	8243.78	8070.89	-1876.68	1714353.19	14372763.53	39°34'43.4710"N	80°44'15.3650"W	8286.20	346.910	1.23	0.82	0.91	
15427.00	90.340	340.840	7025.88	8338.78	8160.86	-1907.15	1714322.72	14372853.47	39°34'44.3611"N	80°44'15.7508"W	8380.74	346.846	1.00	-0.33	-0.95	
15521.00	90.370	341.590	7025.30	8432.77	8249.85	-1937.42	1714292.47	14372942.43	39°34'45.2415"N	80°44'16.1341"W	8474.29	346.784	0.80	0.03	0.80	
15616.00	90.400	341.440	7024.66	8527.77	8339.95	-1967.54	1714262.36	14373032.49	39°34'46.1328"N	80°44'16.5154"W	8568.89	346.726	0.16	0.03	-0.16	
15711.00	91.170	341.280	7023.36	8622.76	8429.96	-1997.90	1714232.01	14373122.46	39°34'47.0233"N	80°44'16.8998"W	8663.47	346.667	0.83	0.81	-0.17	
15805.00	90.800	341.110	7021.75	8716.74	8518.92	-2028.19	1714201.73	14373211.40	39°34'47.9034"N	80°44'17.2834"W	8757.03	346.608	0.43	-0.39	-0.18	
15900.00	90.520	341.270	7020.65	8811.74	8608.84	-2058.82	1714171.11	14373301.28	39°34'48.7930"N	80°44'17.6712"W	8851.61	346.550	0.34	-0.29	0.17	
15994.00	90.950	342.270	7019.45	8905.72	8698.12	-2088.23	1714141.72	14373390.52	39°34'49.6762"N	80°44'18.0435"W	8945.28	346.500	1.16	0.46	1.06	
16089.00	91.260	341.550	7017.61	9000.69	8788.40	-2117.72	1714112.24	14373480.77	39°34'50.5693"N	80°44'18.4168"W	9039.96	346.452	0.83	0.33	-0.76	
16183.00	90.950	341.210	7015.80	9094.68	8877.47	-2147.73	1714082.24	14373569.80	39°34'51.4504"N	80°44'18.7967"W	9133.57	346.400	0.49	-0.33	-0.36	
16278.00	90.710	341.290	7014.42	9189.67	8967.42	-2178.26	1714051.72	14373659.71	39°34'52.3403"N	80°44'19.1833"W	9228.18	346.347	0.27	-0.25	0.08	
16372.00	90.250	340.870	7013.64	9283.66	9056.33	-2208.74	1714021.25	14373748.59	39°34'53.2199"N	80°44'19.5693"W	9321.79	346.294	0.66	-0.49	-0.45	
16467.00	91.050	341.130	7012.56	9378.65	9146.15	-2239.67	1713990.34	14373838.38	39°34'54.1085"N	80°44'19.9609"W	9416.38	346.240	0.89	0.84	0.27	



Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		
Field	Wetzel	Well	Gauss Unit 1H
Facility	Furbee Pad	API	47-103-03585-0000
Slot	Slot I	Wellbore	Gauss Unit 1H AWP

WELLPATH DATA (255 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
16562.00	90.680	341.760	7011.12	9473.64	9236.20	-2269.89	1713960.12	14373928.39	39°34'54.9994"N	80°44'20.3436"W	9511.04	346.193	0.77	-0.39	0.66	
16656.00	90.430	341.310	7010.21	9567.63	9325.36	-2299.66	1713930.37	14374017.51	39°34'55.8814"N	80°44'20.7206"W	9604.73	346.147	0.55	-0.27	-0.48	
16751.00	90.710	341.130	7009.27	9662.63	9415.30	-2330.25	1713899.80	14374107.41	39°34'56.7711"N	80°44'21.1078"W	9699.37	346.099	0.35	0.29	-0.19	
16846.00	90.710	341.310	7008.09	9757.62	9505.23	-2360.83	1713869.23	14374197.31	39°34'57.6608"N	80°44'21.4951"W	9794.03	346.052	0.19	0.00	0.19	
16940.00	90.550	341.760	7007.06	9851.61	9594.39	-2390.60	1713839.47	14374286.43	39°34'58.5428"N	80°44'21.8720"W	9887.73	346.009	0.51	-0.17	0.48	
17035.00	90.830	341.480	7005.91	9946.60	9684.53	-2420.55	1713809.53	14374376.54	39°34'59.4346"N	80°44'22.2512"W	9982.45	345.967	0.42	0.29	-0.29	
17130.00	90.800	341.630	7004.56	10041.59	9774.64	-2450.60	1713779.48	14374466.62	39°35'0.3261"N	80°44'22.6317"W	10077.16	345.925	0.16	-0.03	0.16	
17225.00	90.710	341.190	7003.31	10136.58	9864.68	-2480.89	1713749.21	14374556.62	39°35'1.2168"N	80°44'23.0152"W	10171.86	345.883	0.47	-0.09	-0.46	
17319.00	91.080	341.730	7001.84	10230.57	9953.79	-2510.77	1713719.34	14374645.69	39°35'2.0983"N	80°44'23.3936"W	10265.57	345.843	0.70	0.39	0.57	
17413.00	90.030	340.900	7000.93	10324.56	10042.83	-2540.88	1713689.24	14374734.70	39°35'2.9792"N	80°44'23.7749"W	10359.27	345.802	1.42	-1.12	-0.88	
17508.00	90.860	341.900	7000.19	10419.55	10132.86	-2571.18	1713658.95	14374824.70	39°35'3.8698"N	80°44'24.1585"W	10453.99	345.762	1.37	0.87	1.05	
17603.00	90.740	341.030	6998.87	10514.54	10222.93	-2601.38	1713628.77	14374914.72	39°35'4.7608"N	80°44'24.5409"W	10548.72	345.723	0.92	-0.13	-0.92	
17697.00	90.950	341.940	6997.48	10608.53	10312.05	-2631.23	1713598.93	14375003.81	39°35'5.6425"N	80°44'24.9188"W	10642.45	345.686	0.99	0.22	0.97	
17792.00	90.620	341.510	6996.18	10703.51	10402.25	-2661.01	1713569.16	14375093.98	39°35'6.5348"N	80°44'25.2959"W	10737.21	345.651	0.57	-0.35	-0.45	
17886.00	90.740	341.460	6995.06	10797.50	10491.38	-2690.86	1713539.32	14375183.07	39°35'7.4165"N	80°44'25.6739"W	10830.96	345.615	0.14	0.13	-0.05	
17981.00	90.310	341.350	6994.19	10892.50	10581.41	-2721.15	1713509.04	14375273.07	39°35'8.3072"N	80°44'26.0574"W	10925.70	345.578	0.47	-0.45	-0.12	
18075.00	89.820	340.230	6994.09	10986.50	10670.18	-2752.08	1713478.13	14375361.80	39°35'9.1854"N	80°44'26.4492"W	11019.38	345.537	1.30	-0.52	-1.19	
18170.00	90.400	342.350	6993.91	11081.49	10760.15	-2782.55	1713447.67	14375451.74	39°35'10.0755"N	80°44'26.8351"W	11114.11	345.501	2.31	0.61	2.23	
18265.00	90.220	340.640	6993.39	11176.48	10850.24	-2812.70	1713417.53	14375541.79	39°35'10.9667"N	80°44'27.2169"W	11208.88	345.467	1.81	-0.19	-1.80	
18359.00	90.520	341.590	6992.78	11270.48	10939.17	-2843.13	1713387.12	14375630.69	39°35'11.8465"N	80°44'27.6022"W	11302.60	345.431	1.06	0.32	1.01	
18454.00	90.310	341.140	6992.10	11365.48	11029.19	-2873.48	1713356.77	14375720.67	39°35'12.7370"N	80°44'27.9866"W	11397.37	345.397	0.52	-0.22	-0.47	
18548.00	90.340	341.410	6991.56	11459.47	11118.21	-2903.66	1713326.61	14375809.66	39°35'13.6177"N	80°44'28.3687"W	11491.12	345.363	0.29	0.03	0.29	
18643.00	90.250	341.170	6991.07	11554.47	11208.19	-2934.13	1713296.15	14375899.60	39°35'14.5078"N	80°44'28.7547"W	11585.88	345.330	0.27	-0.09	-0.25	
18737.00	90.550	341.450	6990.42	11648.47	11297.23	-2964.25	1713266.04	14375988.60	39°35'15.3887"N	80°44'29.1361"W	11679.65	345.298	0.44	0.32	0.30	
18832.00	90.310	341.090	6989.70	11743.46	11387.20	-2994.76	1713235.55	14376078.54	39°35'16.2787"N	80°44'29.5224"W	11774.42	345.265	0.46	-0.25	-0.38	
18926.00	90.430	341.480	6989.10	11837.46	11476.23	-3024.92	1713205.40	14376167.53	39°35'17.1595"N	80°44'29.9044"W	11868.19	345.234	0.43	0.13	0.41	
19020.00	90.460	341.260	6988.37	11931.46	11565.30	-3054.95	1713175.38	14376256.56	39°35'18.0406"N	80°44'30.2847"W	11961.97	345.203	0.24	0.03	-0.23	
19115.00	90.520	341.480	6987.56	12026.45	11655.32	-3085.29	1713145.05	14376346.55	39°35'18.9312"N	80°44'30.6690"W	12056.76	345.173	0.24	0.06	0.23	
19209.00	90.400	341.320	6986.80	12120.45	11744.40	-3115.27	1713115.08	14376435.60	39°35'19.8125"N	80°44'31.0487"W	12150.55	345.144	0.21	-0.13	-0.17	
19303.00	90.310	341.550	6986.22	12214.45	11833.51	-3145.20	1713085.16	14376524.67	39°35'20.6940"N	80°44'31.4277"W	12244.36	345.116	0.26	-0.10	0.24	

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Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (255 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
19398.00	90.460	341.430	6985.58	12309.44	11923.59	-3175.36	1713055.01	14376614.72	39°35'21.5851"N	80°44'31.8096"W	12339.17	345.088	0.20	0.16	-0.13	
19492.00	90.860	341.020	6984.50	12403.44	12012.59	-3205.61	1713024.77	14376703.68	39°35'22.4655"N	80°44'32.1927"W	12432.95	345.059	0.61	0.43	-0.44	
19587.00	90.120	341.620	6983.68	12498.43	12102.58	-3236.04	1712994.36	14376793.63	39°35'23.3558"N	80°44'32.5781"W	12527.74	345.030	1.00	-0.78	0.63	
19682.00	90.370	341.170	6983.28	12593.43	12192.61	-3266.35	1712964.06	14376883.63	39°35'24.2465"N	80°44'32.9619"W	12622.55	345.003	0.54	0.26	-0.47	
19776.00	90.430	341.240	6982.62	12687.43	12281.60	-3296.63	1712933.79	14376972.58	39°35'25.1268"N	80°44'33.3455"W	12716.34	344.975	0.10	0.06	0.07	
19871.00	90.400	340.840	6981.93	12782.42	12371.44	-3327.50	1712902.94	14377062.39	39°35'26.0156"N	80°44'33.7365"W	12811.12	344.946	0.42	-0.03	-0.42	
19966.00	90.310	341.090	6981.35	12877.42	12461.24	-3358.48	1712871.97	14377152.16	39°35'26.9040"N	80°44'34.1289"W	12905.89	344.916	0.28	-0.09	0.26	
20060.00	90.220	341.040	6980.91	12971.42	12550.16	-3388.98	1712841.48	14377241.03	39°35'27.7836"N	80°44'34.5153"W	12999.68	344.889	0.11	-0.10	-0.05	
20155.00	90.310	341.480	6980.47	13066.42	12640.12	-3419.50	1712810.97	14377330.96	39°35'28.6736"N	80°44'34.9019"W	13094.49	344.862	0.47	0.09	0.46	
20250.00	90.280	341.500	6979.98	13161.41	12730.20	-3449.66	1712780.82	14377421.01	39°35'29.5648"N	80°44'35.2838"W	13189.32	344.838	0.04	-0.03	0.02	
20345.00	90.280	341.420	6979.52	13256.41	12820.27	-3479.87	1712750.63	14377511.04	39°35'30.4558"N	80°44'35.6664"W	13284.16	344.814	0.08	0.00	-0.08	
20439.00	90.340	341.320	6979.01	13350.41	12909.34	-3509.90	1712720.61	14377600.08	39°35'31.3369"N	80°44'36.0467"W	13377.99	344.790	0.12	0.06	-0.11	
20534.00	90.340	341.300	6978.45	13445.41	12999.33	-3540.34	1712690.18	14377690.03	39°35'32.2272"N	80°44'36.4323"W	13472.81	344.765	0.02	0.00	-0.02	
20629.00	90.280	341.310	6977.93	13540.40	13089.32	-3570.79	1712659.74	14377779.98	39°35'33.1174"N	80°44'36.8179"W	13567.64	344.741	0.06	-0.06	0.01	
20723.00	90.250	341.490	6977.50	13634.40	13178.41	-3600.77	1712629.77	14377869.04	39°35'33.9987"N	80°44'37.1977"W	13661.48	344.718	0.19	-0.03	0.19	
20818.00	90.340	341.440	6977.01	13729.40	13268.48	-3630.97	1712599.59	14377959.07	39°35'34.8898"N	80°44'37.5801"W	13756.33	344.695	0.11	0.09	-0.05	
20912.00	90.250	341.640	6976.52	13823.40	13357.64	-3660.73	1712569.83	14378048.20	39°35'35.7718"N	80°44'37.9571"W	13850.18	344.674	0.23	-0.10	0.21	
21007.00	90.280	341.560	6976.08	13918.39	13447.78	-3690.72	1712539.86	14378138.31	39°35'36.6635"N	80°44'38.3369"W	13945.05	344.653	0.09	0.03	-0.08	
21101.00	90.280	341.500	6975.62	14012.39	13536.94	-3720.50	1712510.09	14378227.43	39°35'37.5455"N	80°44'38.7140"W	14038.91	344.632	0.06	0.00	-0.06	
21196.00	90.310	341.270	6975.14	14107.38	13626.97	-3750.82	1712479.78	14378317.42	39°35'38.4361"N	80°44'39.0981"W	14133.75	344.610	0.24	0.03	-0.24	
21291.00	90.250	340.450	6974.67	14202.38	13716.72	-3781.97	1712448.64	14378407.13	39°35'39.3240"N	80°44'39.4927"W	14228.55	344.585	0.87	-0.06	-0.86	
21385.00	90.250	340.420	6974.26	14296.37	13805.29	-3813.45	1712417.18	14378495.67	39°35'40.2002"N	80°44'39.8916"W	14322.30	344.558	0.03	0.00	-0.03	
21480.00	90.280	340.240	6973.82	14391.36	13894.74	-3845.43	1712385.21	14378585.09	39°35'41.0853"N	80°44'40.2968"W	14417.05	344.530	0.19	0.03	-0.19	
21574.00	90.220	340.190	6973.41	14485.35	13983.19	-3877.24	1712353.41	14378673.51	39°35'41.9603"N	80°44'40.7001"W	14510.78	344.502	0.08	-0.06	-0.05	
21669.00	90.370	340.350	6972.92	14580.34	14072.62	-3909.31	1712321.35	14378762.89	39°35'42.8450"N	80°44'41.1065"W	14605.52	344.475	0.23	0.16	0.17	
21764.00	90.280	340.310	6972.38	14675.33	14162.07	-3941.29	1712289.39	14378852.31	39°35'43.7300"N	80°44'41.5117"W	14700.27	344.448	0.10	-0.09	-0.04	
21858.00	89.850	340.200	6972.28	14769.32	14250.54	-3973.05	1712257.64	14378940.75	39°35'44.6053"N	80°44'41.9142"W	14794.02	344.422	0.47	-0.46	-0.12	
21953.00	89.940	340.350	6972.45	14864.31	14339.97	-4005.11	1712225.59	14379030.14	39°35'45.4900"N	80°44'42.3205"W	14888.78	344.395	0.18	0.09	0.16	
22048.00	90.030	340.530	6972.48	14959.30	14429.49	-4036.92	1712193.80	14379119.62	39°35'46.3756"N	80°44'42.7236"W	14983.55	344.370	0.21	0.09	0.19	
22142.00	90.000	340.460	6972.45	15053.30	14518.09	-4068.30	1712162.43	14379208.19	39°35'47.2522"N	80°44'43.1213"W	15077.34	344.346	0.08	-0.03	-0.07	



Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

WELLPATH DATA (255 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
22237.00	90.030	340.330	6972.43	15148.29	14607.59	-4100.18	1712130.56	14379297.65	39°35'48.1375"N	80°44'43.5253"W	15172.11	344.321	0.14	0.03	-0.14	
22332.00	90.030	340.310	6972.38	15243.28	14697.04	-4132.17	1712098.58	14379387.06	39°35'49.0225"N	80°44'43.9307"W	15266.88	344.296	0.02	0.00	-0.02	
22427.00	89.970	340.310	6972.38	15338.27	14786.48	-4164.18	1712066.59	14379476.47	39°35'49.9074"N	80°44'44.3364"W	15361.65	344.272	0.06	-0.06	0.00	
22521.00	90.000	340.080	6972.40	15432.26	14874.92	-4196.03	1712034.75	14379564.88	39°35'50.7823"N	80°44'44.7400"W	15455.42	344.247	0.25	0.03	-0.24	
22616.00	90.060	340.150	6972.35	15527.25	14964.26	-4228.34	1712002.45	14379654.18	39°35'51.6662"N	80°44'45.1496"W	15550.17	344.222	0.10	0.06	0.07	
22711.00	90.030	340.350	6972.28	15622.23	15053.67	-4260.44	1711970.36	14379743.56	39°35'52.5507"N	80°44'45.5564"W	15644.95	344.198	0.21	-0.03	0.21	
22805.00	89.940	340.400	6972.30	15716.23	15142.21	-4292.01	1711938.80	14379832.06	39°35'53.4266"N	80°44'45.9566"W	15738.74	344.175	0.11	-0.10	0.05	
22899.00	90.060	340.370	6972.30	15810.22	15230.75	-4323.57	1711907.26	14379920.57	39°35'54.3026"N	80°44'46.3565"W	15832.53	344.152	0.13	0.13	-0.03	
22994.00	90.030	340.270	6972.23	15905.21	15320.20	-4355.56	1711875.28	14380009.99	39°35'55.1876"N	80°44'46.7620"W	15927.32	344.129	0.11	-0.03	-0.11	
23088.00	89.940	339.960	6972.25	15999.20	15408.60	-4387.53	1711843.32	14380098.35	39°35'56.0621"N	80°44'47.1672"W	16021.09	344.106	0.34	-0.10	-0.33	
23183.00	90.000	340.080	6972.30	16094.18	15497.88	-4419.99	1711810.87	14380187.59	39°35'56.9454"N	80°44'47.5787"W	16115.85	344.082	0.14	0.06	0.13	
23277.00	89.940	340.050	6972.35	16188.16	15586.25	-4452.04	1711778.84	14380275.93	39°35'57.8196"N	80°44'47.9849"W	16209.62	344.059	0.07	-0.06	-0.03	
23372.00	90.060	340.090	6972.35	16283.15	15675.56	-4484.43	1711746.47	14380365.20	39°35'58.7032"N	80°44'48.3954"W	16304.39	344.035	0.13	0.13	0.04	
23432.00	90.180	340.250	6972.22	16343.14	15732.00	-4504.78	1711726.12	14380421.62	39°35'59.2616"N	80°44'48.6534"W	16364.26	344.021	0.33	0.20	0.27	
23457.00†	90.180	340.250	6972.15	16368.14	15755.53	-4513.23	1711717.68	14380445.14	39°35'59.4944"N	80°44'48.7605"W	16389.20	344.015	0.00	0.00	0.00	Projected MD at TD: 23457'

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Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

HOLE & CASING SECTIONS - Ref Wellbore: Gauss Unit 1H AWB Ref Wellpath: Gauss Unit 1H AWP Proj: 23457'									
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	0.04	0.27
17.5in Open Hole	125.50	709.00	583.50	125.50	708.98	0.04	0.27	-0.89	4.67
13.375in Casing Surface	25.50	689.00	663.50	25.50	688.98	0.00	0.00	-0.90	4.27
12.25in Open Hole	709.00	3451.00	2742.00	708.98	3449.88	-0.89	4.67	-1.06	48.64
9.625in Casing Intermediate	25.50	3421.00	3395.50	25.50	3419.88	0.00	0.00	-1.16	48.55
8.75in Open Hole	3451.00	6273.00	2822.00	3449.88	6211.89	-1.06	48.64	-53.83	594.69
8.5in Open Hole	6273.00	23457.00	17184.00	6211.89	6972.15	-53.83	594.69	15755.53	-4513.23
5.5in Casing Production	25.50	23437.00	23411.50	25.50	6972.21	0.00	0.00	15736.71	-4506.47



Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gauss Unit 1H POE Rev-3	7021.00	494.14	655.48	1716884.34	14365189.78	39°33'28.5142"N	80°43'43.3184"W	point
Gauss Unit 1H AZI Rev-3	7049.00	1002.80	545.47	1716774.38	14365698.24	39°33'33.5447"N	80°43'44.7034"W	point
Gauss Unit 1H BHL Rev-3	7049.00	15753.49	-4502.32	1711728.58	14380443.10	39°35'59.4739"N	80°44'48.6212"W	point
Gauss Unit 1H LP Rev-3	7049.00	689.88	623.76	1716852.64	14365385.45	39°33'30.4498"N	80°43'43.7158"W	point
Gauss Unit 1H 50' L/R Hard Line	7500.00	8378.14	-1978.42	1714251.48	14373070.67	39°34'46.5106"N	80°44'16.6530"W	rectangle
2D Rectangle 15590.5 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Gauss Unit 1H AWB Ref Wellpath: Gauss Unit 1H AWP Proj: 23457'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	644.00	Gyrodata 2015 - GC+VMR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-644')	Gauss Unit 1H AWB	10/3/2023
644.00	3372.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (644')(769'-3372')	Gauss Unit 1H AWB	10/3/2023
3372.00	6204.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3372')(3461'-6204')	Gauss Unit 1H AWB	11/29/2023
6204.00	23457.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6204')(6268'-23432')	Gauss Unit 1H AWB	11/29/2023

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Actual Wellpath Report

Gauss Unit 1H AWP Proj: 23457'
Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Gauss Unit 1H
Field	Wetzel	API	47-103-03585-0000
Facility	Furbee Pad	Wellbore	Gauss Unit 1H AWB
Slot	Slot I		

COMMENTS

Wellpath general comments

API: 47-103-03585-0000
BH Job #: 111949161
Rig: H&P 317
Duration: 12/3/2023-12/9/2023
Gyrodata MS Gyro <17-1/2"> (100'-644')
APS EM <12-1/4"> (644')(769'-3372')
APS EM <8-3/4"> (3372')(3461'-6204')
BH AT Curve <8-1/2"> (6204')(6268'-23432')
Sycamore: 6763' MD
Middlesex: 6916' MD
Burkett: 7061' MD
Tully: 7115' MD
Hamilton: 7198' MD
Marcellus POE: 7309' MD
Projected MD at TD: 23457'