



Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 3H
Field	Tyler	API	47-095-02563-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 3H AWB
Slot	Slot #03		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	11/15/2019 at 10:47:06 AM
Convergence at slot	0.05° 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	-15.18	0.80	1663785.43	14333825.53	39°28'19.4400"N	80°55'1.8900"W
Facility Reference Pt			1663784.63	14333840.70	39°28'19.5900"N	80°55'1.9000"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 519 (RKB) to Facility Vertical Datum	761.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	761.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #03)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.24°

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Page 2 of 10



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WELLPATH DATA (171 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	175.600	0.00	0.00	0.00	0.00	1663785.43	14333825.53	39°28'19.4400"N	80°55'1.8900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	175.600	30.00	0.00	0.00	0.00	1663785.43	14333825.53	39°28'19.4400"N	80°55'1.8900"W	0.00	0.000	0.00	0.00	0.00	
115.00	1.060	175.600	115.00	0.76	-0.78	0.06	1663785.49	14333824.75	39°28'19.4323"N	80°55'1.8892"W	0.79	175.600	1.25	1.25	0.00	Gyrodata MS Gyro <17-1/2">(115'-301')
140.00	0.750	182.000	139.99	1.14	-1.18	0.07	1663785.50	14333824.35	39°28'19.4284"N	80°55'1.8891"W	1.18	176.485	1.30	-1.24	25.60	
165.00	0.620	177.430	164.99	1.42	-1.48	0.07	1663785.50	14333824.05	39°28'19.4254"N	80°55'1.8891"W	1.48	177.154	0.57	-0.52	-19.48	
190.00	0.470	175.570	189.99	1.65	-1.71	0.09	1663785.52	14333823.82	39°28'19.4231"N	80°55'1.8889"W	1.72	177.057	0.60	-0.60	-6.24	
215.00	0.400	179.270	214.99	1.83	-1.90	0.10	1663785.53	14333823.63	39°28'19.4212"N	80°55'1.8888"W	1.91	177.079	0.30	-0.28	14.80	
240.00	0.340	198.460	239.99	1.98	-2.06	0.07	1663785.50	14333823.47	39°28'19.4196"N	80°55'1.8891"W	2.06	177.923	0.55	-0.24	76.76	
265.00	0.330	211.200	264.99	2.08	-2.19	0.01	1663785.44	14333823.34	39°28'19.4183"N	80°55'1.8898"W	2.19	179.635	0.30	-0.04	50.96	
290.00	0.460	233.000	289.99	2.16	-2.31	-0.10	1663785.33	14333823.22	39°28'19.4171"N	80°55'1.8913"W	2.32	182.559	0.79	0.52	87.20	
301.00	0.640	234.090	300.99	2.19	-2.38	-0.19	1663785.24	14333823.15	39°28'19.4165"N	80°55'1.8924"W	2.39	184.533	1.64	1.64	9.91	
390.00	0.640	255.630	389.98	2.30	-2.79	-1.07	1663784.36	14333822.74	39°28'19.4124"N	80°55'1.9037"W	2.99	201.012	0.27	0.00	24.20	Gyrodata MS Gyro <12-1/4">(301')(390'-670')
484.00	0.770	267.970	483.97	2.08	-2.95	-2.21	1663783.22	14333822.59	39°28'19.4109"N	80°55'1.9182"W	3.68	216.914	0.21	0.14	13.13	
578.00	0.840	261.650	577.96	1.77	-3.07	-3.53	1663781.91	14333822.46	39°28'19.4097"N	80°55'1.9350"W	4.67	228.972	0.12	0.07	-6.72	
670.00	0.170	315.630	669.96	1.53	-3.07	-4.29	1663781.14	14333822.46	39°28'19.4097"N	80°55'1.9447"W	5.27	234.417	0.82	-0.73	58.67	
791.00	0.180	275.920	790.96	1.28	-2.92	-4.60	1663780.83	14333822.61	39°28'19.4112"N	80°55'1.9487"W	5.45	237.608	0.10	0.01	-32.82	WFT EM <12-1/4">(670')(791'-2508')
884.00	0.470	306.980	883.96	0.91	-2.68	-5.05	1663780.38	14333822.85	39°28'19.4136"N	80°55'1.9545"W	5.72	242.097	0.35	0.31	33.40	
981.00	1.090	304.970	980.95	-0.16	-1.91	-6.13	1663779.31	14333823.62	39°28'19.4212"N	80°55'1.9681"W	6.42	252.707	0.64	0.64	-2.07	
1076.00	0.970	311.410	1075.93	-1.59	-0.86	-7.47	1663777.96	14333824.67	39°28'19.4316"N	80°55'1.9853"W	7.52	263.451	0.18	-0.13	6.78	
1171.00	0.740	322.910	1170.92	-2.87	0.16	-8.44	1663776.99	14333825.69	39°28'19.4417"N	80°55'1.9977"W	8.44	271.110	0.30	-0.24	12.11	
1265.00	0.320	228.370	1264.92	-3.34	0.47	-9.01	1663776.43	14333826.00	39°28'19.4448"N	80°55'2.0048"W	9.02	273.010	0.88	-0.45	-100.57	
1360.00	0.870	213.850	1359.91	-2.80	-0.30	-9.61	1663775.83	14333825.23	39°28'19.4371"N	80°55'2.0125"W	9.61	268.201	0.60	0.58	-15.28	
1454.00	0.500	263.480	1453.91	-2.46	-0.94	-10.41	1663775.02	14333824.59	39°28'19.4308"N	80°55'2.0228"W	10.45	264.835	0.71	-0.39	52.80	
1549.00	1.050	323.270	1548.90	-3.37	-0.29	-11.34	1663774.09	14333825.24	39°28'19.4372"N	80°55'2.0346"W	11.35	268.533	0.96	0.58	62.94	
1643.00	0.520	19.430	1642.89	-4.53	0.80	-11.72	1663773.72	14333826.33	39°28'19.4480"N	80°55'2.0394"W	11.74	273.916	0.93	-0.56	59.74	
1738.00	1.070	116.850	1737.89	-4.23	0.81	-10.78	1663774.65	14333826.34	39°28'19.4481"N	80°55'2.0275"W	10.81	274.286	1.31	0.58	102.55	
1832.00	0.880	123.960	1831.87	-3.03	0.01	-9.40	1663776.03	14333825.54	39°28'19.4402"N	80°55'2.0099"W	9.40	270.051	0.24	-0.20	7.56	
1927.00	0.360	196.700	1926.87	-2.21	-0.69	-8.88	1663776.55	14333824.84	39°28'19.4333"N	80°55'2.0032"W	8.91	265.589	0.89	-0.55	76.57	
2021.00	0.760	257.180	2020.86	-2.03	-1.11	-9.57	1663775.86	14333824.42	39°28'19.4292"N	80°55'2.0121"W	9.64	263.408	0.70	0.43	64.34	
2116.00	0.420	319.240	2115.86	-2.42	-0.98	-10.41	1663775.02	14333824.55	39°28'19.4304"N	80°55'2.0228"W	10.46	264.612	0.71	-0.36	65.33	

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Page 3 of 10



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Field	Tyler	API	47-095-02563-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 3H AWB
Slot	Slot #03		

WELLPATH DATA (171 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
2210.00	1.120	32.060	2209.85	-3.32	0.06	-10.15	1663775.28	14333825.59	39°28'19.4407"N	80°55'2.0195"W	10.15	270.323	1.14	0.74	77.47	
2305.00	0.650	63.790	2304.84	-3.98	1.08	-9.18	1663776.26	14333826.61	39°28'19.4508"N	80°55'2.0070"W	9.24	276.727	0.70	-0.49	33.40	
2400.00	0.580	142.230	2399.84	-3.59	0.94	-8.40	1663777.04	14333826.47	39°28'19.4494"N	80°55'1.9971"W	8.45	276.388	0.82	-0.07	82.57	
2508.00	0.830	178.800	2507.83	-2.33	-0.27	-8.05	1663777.39	14333825.26	39°28'19.4374"N	80°55'1.9926"W	8.05	268.049	0.46	0.23	33.86	
2633.00	1.150	190.720	2632.81	-0.37	-2.41	-8.26	1663777.17	14333823.12	39°28'19.4162"N	80°55'1.9954"W	8.61	253.725	0.30	0.26	9.54	WFT EM <8-3/4">(2508')(2633'-5539')
2727.00	1.030	253.410	2726.80	0.42	-3.58	-9.25	1663776.19	14333821.95	39°28'19.4047"N	80°55'2.0079"W	9.91	248.835	1.21	-0.13	66.69	
2822.00	2.730	319.750	2821.75	-1.72	-2.10	-11.53	1663773.91	14333823.43	39°28'19.4194"N	80°55'2.0370"W	11.72	259.691	2.63	1.79	69.83	
2917.00	5.510	339.380	2916.50	-8.39	3.90	-14.60	1663770.84	14333829.43	39°28'19.4787"N	80°55'2.0761"W	15.11	284.962	3.24	2.93	20.66	
3011.00	7.790	341.810	3009.86	-19.27	14.18	-18.17	1663767.26	14333839.70	39°28'19.5803"N	80°55'2.1216"W	23.05	307.959	2.44	2.43	2.59	
3106.00	9.540	340.730	3103.77	-33.58	27.73	-22.78	1663762.66	14333853.24	39°28'19.7142"N	80°55'2.1802"W	35.89	320.592	1.85	1.84	-1.14	
3203.00	11.150	338.410	3199.19	-50.99	44.04	-28.89	1663756.55	14333869.55	39°28'19.8755"N	80°55'2.2578"W	52.67	326.737	1.71	1.66	-2.39	
3297.00	12.680	337.440	3291.17	-70.36	62.02	-36.19	1663749.25	14333887.52	39°28'20.0533"N	80°55'2.3507"W	71.80	329.735	1.64	1.63	-1.03	
3392.00	14.290	335.370	3383.54	-92.43	82.30	-45.08	1663740.37	14333907.80	39°28'20.2539"N	80°55'2.4638"W	93.84	331.292	1.77	1.69	-2.18	
3486.00	16.640	332.470	3474.14	-117.27	104.79	-56.13	1663729.32	14333930.27	39°28'20.4762"N	80°55'2.6046"W	118.88	331.823	2.63	2.50	-3.09	
3581.00	18.030	332.220	3564.82	-145.24	129.86	-69.27	1663716.18	14333955.34	39°28'20.7241"N	80°55'2.7718"W	147.18	331.922	1.47	1.46	-0.26	
3676.00	19.150	330.750	3654.86	-175.08	156.46	-83.74	1663701.72	14333981.93	39°28'20.9871"N	80°55'2.9560"W	177.46	331.844	1.28	1.18	-1.55	
3770.00	19.900	327.560	3743.46	-205.79	183.42	-99.86	1663685.61	14334008.87	39°28'21.2537"N	80°55'3.1612"W	208.84	331.435	1.39	0.80	-3.39	
3865.00	19.820	327.380	3832.81	-237.13	210.63	-117.21	1663668.27	14334036.07	39°28'21.5228"N	80°55'3.3822"W	241.04	330.905	0.11	-0.08	-0.19	
3959.00	19.980	327.260	3921.19	-268.19	237.56	-134.49	1663651.00	14334062.99	39°28'21.7891"N	80°55'3.6022"W	272.98	330.485	0.18	0.17	-0.13	
4054.00	20.040	326.540	4010.46	-299.68	264.79	-152.24	1663633.25	14334090.21	39°28'22.0584"N	80°55'3.8282"W	305.43	330.104	0.27	0.06	-0.76	
4148.00	18.930	327.840	4099.08	-330.09	291.13	-169.24	1663616.26	14334116.55	39°28'22.3189"N	80°55'4.0446"W	336.75	329.831	1.27	-1.18	1.38	
4243.00	19.200	327.720	4188.86	-360.27	317.39	-185.78	1663599.72	14334142.79	39°28'22.5785"N	80°55'4.2553"W	367.76	329.658	0.29	0.28	-0.13	
4338.00	19.470	327.570	4278.51	-390.85	343.96	-202.61	1663582.90	14334169.35	39°28'22.8413"N	80°55'4.4697"W	399.20	329.499	0.29	0.28	-0.16	
4432.00	19.870	328.330	4367.02	-421.64	370.78	-219.40	1663566.12	14334196.16	39°28'23.1065"N	80°55'4.6834"W	430.83	329.386	0.51	0.43	0.81	
4527.00	19.980	328.870	4456.33	-453.23	398.41	-236.27	1663549.26	14334223.78	39°28'23.3798"N	80°55'4.8982"W	463.20	329.331	0.23	0.12	0.57	
4624.00	20.420	328.590	4547.37	-485.93	427.04	-253.65	1663531.88	14334252.39	39°28'23.6629"N	80°55'5.1196"W	496.69	329.290	0.46	0.45	-0.29	
4718.00	20.050	330.290	4635.57	-517.75	455.03	-270.19	1663515.35	14334280.37	39°28'23.9397"N	80°55'5.3301"W	529.20	329.299	0.74	-0.39	1.81	
4813.00	19.490	330.300	4724.97	-549.30	482.94	-286.11	1663499.43	14334308.27	39°28'24.2157"N	80°55'5.5328"W	561.33	329.356	0.59	-0.59	0.01	
4908.00	19.180	328.550	4814.61	-580.08	510.02	-302.10	1663483.45	14334335.34	39°28'24.4834"N	80°55'5.7364"W	592.78	329.360	0.69	-0.33	-1.84	
5002.00	20.400	325.220	4903.06	-610.89	536.65	-319.51	1663466.05	14334361.96	39°28'24.7468"N	80°55'5.9580"W	624.56	329.231	1.77	1.30	-3.54	

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Page 4 of 10



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5097.00	20.070	324.060	4992.20	-642.38	563.45	-338.52	1663447.05	14334388.75	39°28'25.0118"N	80°55'6.2002"W	657.32	329.002	0.55	-0.35	-1.22	
5192.00	20.420	322.750	5081.33	-673.67	589.83	-358.12	1663427.45	14334415.13	39°28'25.2728"N	80°55'6.4498"W	690.04	328.736	0.60	0.37	-1.38	
5223.00	18.030	317.320	5110.60	-683.19	597.67	-364.65	1663420.93	14334422.96	39°28'25.3503"N	80°55'6.5329"W	700.12	328.612	9.62	-7.71	-17.52	
5287.00	13.610	305.770	5172.17	-698.39	609.36	-377.48	1663408.10	14334434.64	39°28'25.4659"N	80°55'6.6965"W	716.81	328.223	8.45	-6.91	-18.05	
5349.00	9.100	288.050	5232.96	-707.27	615.15	-388.07	1663397.52	14334440.43	39°28'25.5232"N	80°55'6.8314"W	727.33	327.754	9.12	-7.27	-28.58	
5412.00	7.020	260.820	5295.36	-710.90	616.08	-396.61	1663388.98	14334441.36	39°28'25.5325"N	80°55'6.9403"W	732.70	327.228	6.81	-3.30	-43.22	
5476.00	11.100	223.320	5358.60	-708.66	610.96	-404.71	1663380.88	14334436.25	39°28'25.4821"N	80°55'7.0436"W	732.85	326.479	10.90	6.38	-58.59	
5539.00	15.210	205.090	5419.96	-699.86	599.06	-412.38	1663373.22	14334424.35	39°28'25.3644"N	80°55'7.1416"W	727.27	325.457	9.20	6.52	-28.94	
5584.00	16.150	187.120	5463.31	-689.96	587.49	-415.66	1663369.94	14334412.79	39°28'25.2502"N	80°55'7.1836"W	719.67	324.720	10.95	2.09	-39.93	BH AT Curve <8 1/2"> (5539)(5584-14474)
5658.00	15.300	171.890	5534.57	-671.10	567.61	-415.56	1663370.04	14334392.91	39°28'25.0536"N	80°55'7.1825"W	703.47	323.791	5.68	-1.15	-20.58	
5752.00	18.560	160.890	5624.51	-643.94	541.18	-408.91	1663376.69	14334366.49	39°28'24.7924"N	80°55'7.0980"W	678.29	322.926	4.85	3.47	-11.70	
5845.00	27.390	160.340	5710.05	-607.67	506.98	-396.84	1663388.75	14334332.31	39°28'24.4543"N	80°55'6.9445"W	643.83	321.948	9.50	9.49	-0.59	
5939.00	36.310	160.310	5789.81	-558.13	460.32	-380.15	1663405.43	14334285.67	39°28'23.9930"N	80°55'6.7323"W	597.00	320.449	9.49	9.49	-0.03	
6033.00	44.290	159.410	5861.45	-497.40	403.30	-359.20	1663426.37	14334228.67	39°28'23.4292"N	80°55'6.4658"W	540.07	318.310	8.51	8.49	-0.96	
6096.00†	49.946	159.734	5904.30	-451.27	360.06	-343.10	1663442.47	14334185.44	39°28'23.0017"N	80°55'6.2609"W	497.35	316.381	8.99	8.98	0.51	Middlesex: 6096' MD
6126.00	52.640	159.870	5923.06	-427.87	338.09	-335.02	1663450.54	14334163.48	39°28'22.7845"N	80°55'6.1581"W	475.96	315.261	8.99	8.98	0.45	
6221.00	60.960	160.500	5975.03	-348.46	263.36	-308.12	1663477.44	14334088.79	39°28'22.0457"N	80°55'5.8159"W	405.33	310.522	8.78	8.76	0.66	
6261.00†	64.266	161.008	5993.43	-312.95	229.83	-296.41	1663489.13	14334055.27	39°28'21.7142"N	80°55'5.6671"W	375.08	307.789	8.34	8.27	1.27	Burkett: 6261' MD
6312.00†	68.485	161.617	6013.86	-266.24	185.58	-281.45	1663504.09	14334011.04	39°28'21.2767"N	80°55'5.4768"W	337.13	303.400	8.34	8.27	1.19	Tully: 6312' MD
6314.00	68.650	161.640	6014.59	-264.38	183.81	-280.86	1663504.68	14334009.27	39°28'21.2592"N	80°55'5.4693"W	335.67	303.203	8.34	8.27	1.16	
6378.00†	72.170	162.032	6036.05	-204.09	126.53	-262.07	1663523.46	14333952.01	39°28'20.6929"N	80°55'5.2304"W	291.02	295.772	5.53	5.50	0.61	Marcellus POE: 6378' MD
6408.00	73.820	162.210	6044.82	-175.41	99.23	-253.26	1663532.27	14333924.72	39°28'20.4230"N	80°55'5.1184"W	272.01	291.395	5.53	5.50	0.59	
6455.00	75.500	162.840	6057.25	-130.10	56.00	-239.65	1663545.87	14333881.50	39°28'19.9956"N	80°55'4.9453"W	246.11	283.152	3.80	3.57	1.34	
6502.00	79.480	163.300	6067.43	-84.25	12.11	-226.30	1663559.22	14333837.63	39°28'19.5617"N	80°55'4.7755"W	226.62	273.063	8.52	8.47	0.98	
6549.00	85.320	162.960	6073.65	-37.70	-32.45	-212.78	1663572.73	14333793.09	39°28'19.1212"N	80°55'4.6037"W	215.24	261.328	12.45	12.43	-0.72	
6595.00	90.030	162.570	6075.51	8.23	-76.34	-199.17	1663586.34	14333749.22	39°28'18.6873"N	80°55'4.4306"W	213.30	249.029	10.27	10.24	-0.85	
6689.00	89.720	160.750	6075.72	102.22	-165.56	-169.59	1663615.91	14333660.04	39°28'17.8052"N	80°55'4.0545"W	237.01	225.689	1.96	-0.33	-1.94	
6782.00	89.450	159.370	6076.39	195.20	-252.98	-137.88	1663647.61	14333572.65	39°28'16.9409"N	80°55'3.6511"W	288.11	208.591	1.51	-0.29	-1.48	
6876.00	89.380	159.210	6077.35	289.14	-340.90	-104.64	1663680.83	14333484.76	39°28'16.0717"N	80°55'3.2283"W	356.60	197.063	0.19	-0.07	-0.17	
6970.00	89.420	157.190	6078.33	383.00	-428.17	-69.73	1663715.73	14333397.53	39°28'15.2089"N	80°55'2.7842"W	433.81	189.250	2.15	0.04	-2.15	

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Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'
Page 5 of 10



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Galt Unit 3H
Field	Tyler		API	47-095-02563-0000
Facility	Ferrell South Pad		Wellbore	Galt Unit 3H AWB
Slot	Slot #03			

WELLPATH DATA (171 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
7063.00	89.480	155.870	6079.23	475.68	-513.47	-32.70	1663752.75	14333312.27	39°28'14.3655"N	80°55'2.3129"W	514.51	183.643	1.42	0.06	-1.42	
7157.00	89.380	161.880	6080.16	569.55	-601.11	1.17	1663786.59	14333224.66	39°28'13.4990"N	80°55'1.8822"W	601.11	179.889	6.39	-0.11	6.39	
7251.00	89.510	165.030	6081.07	663.46	-691.20	27.93	1663813.35	14333134.61	39°28'12.6083"N	80°55'1.5420"W	691.76	177.686	3.35	0.14	3.35	
7344.00	90.000	166.550	6081.47	756.16	-781.35	50.76	1663836.17	14333044.49	39°28'11.7171"N	80°55'1.2519"W	783.00	176.283	1.72	0.53	1.63	
7438.00	90.280	167.670	6081.24	849.67	-872.98	71.73	1663857.13	14332952.90	39°28'10.8113"N	80°55'0.9856"W	875.92	175.303	1.23	0.30	1.19	
7532.00	89.600	166.860	6081.34	943.15	-964.67	92.45	1663877.84	14332861.25	39°28'9.9050"N	80°55'0.7225"W	969.09	174.526	1.13	-0.72	-0.86	
7626.00	89.570	168.520	6082.02	1036.55	-1056.50	112.49	1663897.87	14332769.45	39°28'8.9972"N	80°55'0.4680"W	1062.47	173.923	1.77	-0.03	1.77	
7720.00	89.600	168.090	6082.70	1129.83	-1148.55	131.54	1663916.92	14332677.44	39°28'8.0873"N	80°55'0.2262"W	1156.05	173.467	0.46	0.03	-0.46	
7813.00	89.570	164.690	6083.38	1222.44	-1238.92	153.42	1663938.79	14332587.11	39°28'7.1939"N	80°54'59.9482"W	1248.38	172.941	3.66	-0.03	-3.66	
7907.00	89.480	160.360	6084.16	1316.39	-1328.56	181.64	1663967.00	14332497.51	39°28'6.3077"N	80°54'59.5895"W	1340.92	172.215	4.61	-0.10	-4.61	
8000.00	90.180	157.950	6084.43	1409.32	-1415.46	214.73	1664000.07	14332410.64	39°28'5.4485"N	80°54'59.1686"W	1431.66	171.374	2.70	0.75	-2.59	
8094.00	89.420	157.620	6084.76	1503.15	-1502.48	250.27	1664035.60	14332323.65	39°28'4.5881"N	80°54'58.7164"W	1523.18	170.543	0.88	-0.81	-0.35	
8187.00	89.450	157.220	6085.68	1595.94	-1588.35	285.98	1664071.29	14332237.82	39°28'3.7391"N	80°54'58.2621"W	1613.89	169.793	0.43	0.03	-0.43	
8280.00	89.660	153.580	6086.40	1688.44	-1672.89	324.68	1664109.98	14332153.31	39°28'2.9032"N	80°54'57.7696"W	1704.11	169.016	3.92	0.23	-3.91	
8374.00	89.420	153.090	6087.15	1781.54	-1756.89	366.87	1664152.15	14332069.34	39°28'2.0726"N	80°54'57.2327"W	1794.79	168.205	0.58	-0.26	-0.52	
8468.00	89.380	155.100	6088.14	1874.80	-1841.44	407.93	1664193.20	14331984.83	39°28'1.2366"N	80°54'56.7102"W	1886.08	167.509	2.14	-0.04	2.14	
8562.00	89.350	157.760	6089.18	1968.46	-1927.58	445.51	1664230.76	14331898.72	39°28'0.3848"N	80°54'56.2320"W	1978.40	166.986	2.83	-0.03	2.83	
8655.00	89.510	160.090	6090.11	2061.37	-2014.35	478.95	1664264.19	14331811.99	39°27'59.5270"N	80°54'55.8067"W	2070.51	166.625	2.51	0.17	2.51	
8750.00	89.320	161.750	6091.08	2156.36	-2104.12	510.00	1664295.23	14331722.25	39°27'58.6394"N	80°54'55.4118"W	2165.05	166.375	1.76	-0.20	1.75	
8844.00	89.380	163.390	6092.14	2250.32	-2193.80	538.16	1664323.37	14331632.61	39°27'57.7528"N	80°54'55.0539"W	2258.84	166.217	1.75	0.06	1.74	
8938.00	89.420	165.550	6093.13	2344.16	-2284.36	563.32	1664348.52	14331542.09	39°27'56.8576"N	80°54'54.7341"W	2352.79	166.147	2.30	0.04	2.30	
9032.00	89.480	164.300	6094.03	2437.96	-2375.12	587.77	1664372.96	14331451.37	39°27'55.9604"N	80°54'54.4235"W	2446.76	166.100	1.33	0.06	-1.33	
9126.00	89.510	163.590	6094.86	2531.86	-2465.45	613.76	1664398.94	14331361.07	39°27'55.0673"N	80°54'54.0932"W	2540.69	166.021	0.76	0.03	-0.76	
9220.00	89.540	163.420	6095.64	2625.78	-2555.57	640.45	1664425.62	14331270.98	39°27'54.1763"N	80°54'53.7540"W	2634.60	165.931	0.18	0.03	-0.18	
9315.00	89.450	161.060	6096.47	2720.75	-2646.04	669.43	1664454.59	14331180.55	39°27'53.2820"N	80°54'53.3856"W	2729.40	165.803	2.49	-0.09	-2.48	
9409.00	89.480	161.880	6097.35	2814.75	-2735.16	699.30	1664484.45	14331091.47	39°27'52.4009"N	80°54'53.0058"W	2823.14	165.658	0.87	0.03	0.87	
9503.00	89.480	161.660	6098.20	2908.74	-2824.44	728.70	1664513.84	14331002.23	39°27'51.5182"N	80°54'52.6320"W	2916.92	165.533	0.23	0.00	-0.23	
9596.00	89.510	161.660	6099.02	3001.73	-2912.71	757.96	1664543.09	14330913.99	39°27'50.6455"N	80°54'52.2599"W	3009.72	165.414	0.03	0.03	0.00	
9691.00	89.480	159.460	6099.86	3096.72	-3002.28	789.58	1664574.69	14330824.45	39°27'49.7599"N	80°54'51.8579"W	3104.38	165.265	2.32	-0.03	-2.32	
9785.00	89.480	158.620	6100.71	3190.64	-3090.06	823.20	1664608.30	14330736.71	39°27'48.8921"N	80°54'51.4303"W	3197.83	165.083	0.89	0.00	-0.89	

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Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'
Page 6 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 3H
Field	Tyler	API	47-095-02563-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 3H AWB
Slot	Slot #03		

WELLPATH DATA (171 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
9879.00	89.630	158.000	6101.45	3284.52	-3177.40	857.94	1664643.03	14330649.40	39°27'48.0285"N	80°54'50.9884"W	3291.19	164.890	0.68	0.16	-0.66	
9973.00	89.660	158.670	6102.03	3378.39	-3264.76	892.64	1664677.71	14330562.08	39°27'47.1648"N	80°54'50.5470"W	3384.59	164.708	0.71	0.03	0.71	
10066.00	89.540	158.830	6102.68	3471.30	-3351.43	926.35	1664711.41	14330475.44	39°27'46.3078"N	80°54'50.1183"W	3477.10	164.549	0.22	-0.13	0.17	
10160.00	89.570	158.440	6103.41	3565.20	-3438.97	960.59	1664745.64	14330387.94	39°27'45.4423"N	80°54'49.6828"W	3570.61	164.394	0.42	0.03	-0.41	
10254.00	88.830	157.160	6104.72	3659.02	-3525.99	996.11	1664781.14	14330300.95	39°27'44.5819"N	80°54'49.2311"W	3663.99	164.225	1.57	-0.79	-1.36	
10348.00	88.950	157.910	6106.54	3752.81	-3612.84	1032.02	1664817.03	14330214.14	39°27'43.7232"N	80°54'48.7743"W	3757.35	164.058	0.81	0.13	0.80	
10441.00	89.110	158.190	6108.11	3845.65	-3699.09	1066.78	1664851.78	14330127.93	39°27'42.8705"N	80°54'48.3322"W	3849.84	163.913	0.35	0.17	0.30	
10535.00	89.140	161.260	6109.55	3939.60	-3787.24	1099.34	1664884.33	14330039.81	39°27'41.9989"N	80°54'47.9180"W	3943.57	163.813	3.27	0.03	3.27	
10629.00	89.110	164.620	6110.99	4033.53	-3877.08	1126.91	1664911.89	14329950.00	39°27'41.1107"N	80°54'47.5676"W	4037.54	163.793	3.57	-0.03	3.57	
10723.00	89.020	164.000	6112.52	4127.38	-3967.57	1152.33	1664937.30	14329859.55	39°27'40.2162"N	80°54'47.2447"W	4131.52	163.805	0.67	-0.10	-0.66	
10818.00	89.140	164.170	6114.05	4222.25	-4058.92	1178.38	1664963.33	14329768.24	39°27'39.3131"N	80°54'46.9137"W	4226.51	163.811	0.22	0.13	0.18	
10913.00	89.350	163.330	6115.30	4317.15	-4150.11	1204.96	1664989.90	14329677.08	39°27'38.4115"N	80°54'46.5759"W	4321.50	163.810	0.91	0.22	-0.88	
11007.00	89.690	164.460	6116.08	4411.05	-4240.42	1231.03	1665015.97	14329586.81	39°27'37.5187"N	80°54'46.2446"W	4415.49	163.812	1.26	0.36	1.20	
11102.00	89.230	163.860	6116.98	4505.92	-4331.81	1256.96	1665041.88	14329495.46	39°27'36.6153"N	80°54'45.9152"W	4510.49	163.819	0.80	-0.48	-0.63	
11197.00	89.690	163.480	6117.88	4600.83	-4422.97	1283.67	1665068.58	14329404.34	39°27'35.7140"N	80°54'45.5758"W	4605.48	163.816	0.63	0.48	-0.40	
11291.00	89.200	162.900	6118.79	4694.77	-4512.95	1310.85	1665095.76	14329314.39	39°27'34.8244"N	80°54'45.2303"W	4699.47	163.803	0.81	-0.52	-0.62	
11386.00	89.080	161.510	6120.21	4789.74	-4603.39	1339.88	1665124.77	14329223.99	39°27'33.9303"N	80°54'44.8613"W	4794.42	163.772	1.47	-0.13	-1.46	
11481.00	89.140	160.230	6121.69	4884.73	-4693.13	1371.01	1665155.89	14329134.28	39°27'33.0430"N	80°54'44.4656"W	4889.29	163.715	1.35	0.06	-1.35	
11575.00	89.140	159.440	6123.10	4978.69	-4781.36	1403.41	1665186.28	14329046.09	39°27'32.1707"N	80°54'44.0536"W	4983.07	163.642	0.84	0.00	-0.84	
11670.00	89.080	162.110	6124.57	5073.66	-4871.04	1434.69	1665219.54	14328956.44	39°27'31.2841"N	80°54'43.6560"W	5077.93	163.589	2.81	-0.06	2.81	
11765.00	89.600	163.430	6125.67	5168.62	-4961.77	1462.82	1665247.66	14328865.75	39°27'30.3871"N	80°54'43.2984"W	5172.91	163.573	1.49	0.55	1.39	
11859.00	89.720	162.620	6126.23	5262.57	-5051.67	1490.27	1665275.10	14328775.89	39°27'29.4983"N	80°54'42.9496"W	5266.90	163.564	0.87	0.13	-0.86	
11954.00	89.660	163.270	6126.74	5357.53	-5142.49	1518.13	1665302.95	14328685.10	39°27'28.6004"N	80°54'42.5955"W	5361.90	163.553	0.69	-0.06	0.69	
12049.00	89.600	166.010	6127.35	5452.35	-5234.09	1543.29	1665328.10	14328593.54	39°27'27.6949"N	80°54'42.2759"W	5456.87	163.572	2.88	-0.06	2.88	
12144.00	89.380	164.220	6128.20	5547.13	-5325.89	1567.69	1665352.49	14328501.77	39°27'26.7873"N	80°54'41.9659"W	5551.83	163.598	1.90	-0.23	-1.88	
12239.00	89.570	159.320	6129.07	5642.09	-5416.09	1597.40	1665382.19	14328411.61	39°27'25.8955"N	80°54'41.5883"W	5646.75	163.567	5.16	0.20	-5.16	
12332.00	89.540	156.300	6129.79	5734.91	-5502.19	1632.52	1665417.29	14328325.55	39°27'25.0442"N	80°54'41.1417"W	5739.27	163.474	3.25	-0.03	-3.25	
12426.00	89.540	156.520	6130.55	5828.57	-5588.33	1670.13	1665454.89	14328239.44	39°27'24.1925"N	80°54'40.6632"W	5832.57	163.361	0.23	0.00	0.23	
12520.00	89.660	156.160	6131.20	5922.23	-5674.43	1707.86	1665492.60	14328153.38	39°27'23.3412"N	80°54'40.1833"W	5925.87	163.250	0.40	0.13	-0.38	
12616.00	90.000	156.940	6131.49	6017.90	-5762.50	1746.06	1665530.79	14328065.34	39°27'22.4704"N	80°54'39.6974"W	6021.22	163.143	0.89	0.35	0.81	

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Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'
Page 7 of 10



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Galt Unit 3H
Field	Tyler		API	47-095-02563-0000
Facility	Ferrell South Pad		Wellbore	Galt Unit 3H AWB
Slot	Slot #03			

WELLPATH DATA (171 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
12710.00	89.750	160.780	6131.69	6111.80	-5850.16	1779.95	1665564.67	14327977.72	39°27'21.6037"N	80°54'39.2664"W	6114.95	163.077	4.09	-0.27	4.09	
12803.00	89.820	162.260	6132.04	6204.80	-5938.36	1809.43	1665594.13	14327889.55	39°27'20.7317"N	80°54'38.8917"W	6207.91	163.054	1.59	0.08	1.59	
12897.00	89.940	160.580	6132.24	6298.80	-6027.46	1839.38	1665624.07	14327800.49	39°27'19.8508"N	80°54'38.5110"W	6301.87	163.030	1.79	0.13	-1.79	
12991.00	89.820	158.960	6132.44	6392.76	-6115.65	1871.88	1665656.56	14327712.33	39°27'18.9788"N	80°54'38.0978"W	6395.72	162.982	1.73	-0.13	-1.72	
13085.00	89.910	160.500	6132.66	6486.73	-6203.83	1904.45	1665689.11	14327624.19	39°27'18.1070"N	80°54'37.6837"W	6489.56	162.935	1.64	0.10	1.64	
13179.00	89.820	162.060	6132.88	6580.72	-6292.85	1934.62	1665719.27	14327535.20	39°27'17.2268"N	80°54'37.3003"W	6583.52	162.911	1.66	-0.10	1.66	
13273.00	89.540	162.810	6133.41	6674.70	-6382.47	1962.98	1665747.63	14327445.62	39°27'16.3408"N	80°54'36.9398"W	6677.52	162.904	0.85	-0.30	0.80	
13367.00	89.660	164.050	6134.06	6768.63	-6472.56	1989.79	1665774.42	14327355.56	39°27'15.4501"N	80°54'36.5992"W	6771.51	162.912	1.33	0.13	1.32	
13461.00	89.630	161.950	6134.64	6862.58	-6562.45	2017.27	1665801.89	14327265.71	39°27'14.5615"N	80°54'36.2500"W	6865.50	162.913	2.23	-0.03	-2.23	
13555.00	89.600	160.740	6135.28	6956.57	-6651.51	2047.34	1665831.95	14327176.69	39°27'13.6810"N	80°54'35.8678"W	6959.46	162.892	1.29	-0.03	-1.29	
13649.00	89.570	160.800	6135.96	7050.57	-6740.26	2078.30	1665862.89	14327087.98	39°27'12.8035"N	80°54'35.4743"W	7053.40	162.863	0.07	-0.03	0.06	
13742.00	89.600	160.870	6136.63	7143.56	-6828.10	2108.83	1665893.41	14327000.17	39°27'11.9350"N	80°54'35.0862"W	7146.34	162.837	0.08	0.03	0.08	
13837.00	89.660	161.640	6137.24	7238.56	-6918.06	2139.35	1665923.93	14326910.25	39°27'11.0456"N	80°54'34.6981"W	7241.30	162.816	0.81	0.06	0.81	
13931.00	89.660	162.380	6137.80	7332.55	-7007.46	2168.39	1665952.95	14326820.88	39°27'10.1617"N	80°54'34.3292"W	7335.29	162.806	0.79	0.00	0.79	
14025.00	89.600	164.080	6138.41	7426.49	-7097.46	2195.51	1665980.05	14326730.92	39°27'9.2720"N	80°54'33.9846"W	7429.28	162.811	1.81	-0.06	1.81	
14119.00	89.630	164.060	6139.04	7520.37	-7187.85	2221.31	1666005.84	14326640.57	39°27'8.3784"N	80°54'33.6569"W	7523.25	162.827	0.04	0.03	-0.02	
14214.00	89.570	164.490	6139.70	7615.23	-7279.29	2247.05	1666031.58	14326549.16	39°27'7.4743"N	80°54'33.3298"W	7618.22	162.845	0.46	-0.06	0.45	
14306.00	90.030	164.540	6140.02	7707.08	-7367.95	2271.61	1666056.13	14326460.54	39°27'6.5978"N	80°54'33.0179"W	7710.18	162.865	0.50	0.50	0.05	
14400.00	89.690	165.250	6140.25	7800.89	-7458.70	2296.11	1666080.62	14326369.82	39°27'5.7006"N	80°54'32.7068"W	7804.12	162.889	0.84	-0.36	0.76	
14474.00	89.630	165.880	6140.69	7874.68	-7530.36	2314.56	1666099.06	14326298.19	39°27'4.9922"N	80°54'32.4725"W	7878.04	162.915	0.86	-0.08	0.85	
14499.00†	89.630	165.880	6140.85	7899.59	-7554.61	2320.65	1666105.15	14326273.95	39°27'4.7525"N	80°54'32.3951"W	7903.01	162.924	0.00	0.00	0.00	Projected MD at TD: 14499'

Prepared
 Office of Oil and Gas
 SEP 24 2020
 Environmental Department of
 Antero Resources Corporation



Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'
Page 8 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 3H
Field	Tyler	API	47-095-02563-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 3H AWB
Slot	Slot #03		

HOLE & CASING SECTIONS - Ref Wellbore: Galt Unit 3H AWB Ref Wellpath: Galt Unit 3H AWP Proj: 14499'									
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	95.00	65.00	30.00	95.00	0.00	0.00	-0.46	0.04
17.5in Open Hole	95.00	395.00	300.00	95.00	394.98	-0.46	0.04	-2.81	-1.13
13.375in Casing Surface	30.00	395.00	365.00	30.00	394.98	0.00	0.00	-2.81	-1.13
12.25in Open Hole	395.00	2591.00	2196.00	394.98	2590.82	-2.81	-1.13	-1.62	-8.13
9.625in Casing Intermediate	30.00	2591.00	2561.00	30.00	2590.82	0.00	0.00	-1.62	-8.13
8.75in Open Hole	2591.00	5611.00	3020.00	2590.82	5489.27	-1.62	-8.13	580.11	-416.24
8.5in Open Hole	5611.00	14499.00	8888.00	5489.27	6140.85	580.11	-416.24	-7554.61	2320.65
5.5in Casing Production	30.00	14499.00	14469.00	30.00	6140.85	0.00	0.00	-7554.61	2320.65

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Galt Unit 3H - POE Rev-A.0	6034.00	144.50	-270.41	1663515.13	14333969.97	39°28'20.8706"N	80°55'5.3365"W	point
Galt Unit 3H - BHL Rev-A.0	6072.00	-7569.82	2350.38	1666134.87	14326258.75	39°27'4.6019"N	80°54'32.0164"W	point
Galt Unit 3H - LP Rev-A.0	6072.00	-69.64	-197.66	1663587.85	14333755.92	39°28'18.7535"N	80°55'4.4113"W	point

Original Received
 SEP 24 2020
 Office of Oil and Gas
 Division of Oil and Gas
 Enforcement
 1000 E. 17th Ave
 Denver, CO 80202



Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'
Page 9 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 3H
Field	Tyler	API	47-095-02563-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 3H AWB
Slot	Slot #03		

WELLPATH COMPOSITION - Ref Wellbore: Galt Unit 3H AWB Ref Wellpath: Galt Unit 3H AWP Proj: 14499'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	301.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2">(115'-301')	Galt Unit 3H AWB	
301.00	670.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4">(301')(390'-670')	Galt Unit 3H AWB	
670.00	2508.00	OWSG MWD rev2 + HRGM	03 WFT EM <12-1/4">(670')(791'-2508')	Galt Unit 3H AWB	
2508.00	5539.00	OWSG MWD rev2 + HRGM	04 WFT EM <8-3/4">(2508')(2633'-5539')	Galt Unit 3H AWB	
5539.00	14499.00	BH AutoTrak Curve (Short)	05 BH AT Curve <8 1/2"> (5539')(5584'-14474')	Galt Unit 3H AWB	

Office of Oil and Gas
 SEP 24 2020
 W/D Division
 (505) 346-1111



Actual Wellpath Report

Galt Unit 3H AWP Proj: 14499'

Page 10 of 10



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 3H
Field	Tyler	API	47-095-02563-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 3H AWB
Slot	Slot #03		

COMMENTS

Wellpath general comments

API: 47-095-02563-0000
 BHI Job #: 110086771A
 Rig: H&P 519
 Duration: 11/11/2019-11/13/2019
 Gyrodata MS Gyro <17-1/2">(115'-301')
 Gyrodata MS Gyro <12-1/4">(301')(390'-670')
 WFT EM <12-1/4">(670')(791'-2508')
 WFT EM <8-3/4">(2508')(2633'-5539')
 BH AT Curve <8 1/2"> (5539')(5584'-14474')
 Middlesex: 6096' MD
 Burkett: 6261' MD
 Tully: 6312' MD
 Marcellus POE: 6378' MD
 Projected MD at TD: 14499'

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 SEP 24 2020
 M/D
 ENVIRO
 11/13/2019