



# ANTERO RESOURCES CORPORATION

Location: Tyler County, WV  
Field: Tyler  
Facility: Roma Lou Pad

Slot: Slot #01  
Well: Patty Unit 1H  
Wellbore: Patty Unit 1H PWB

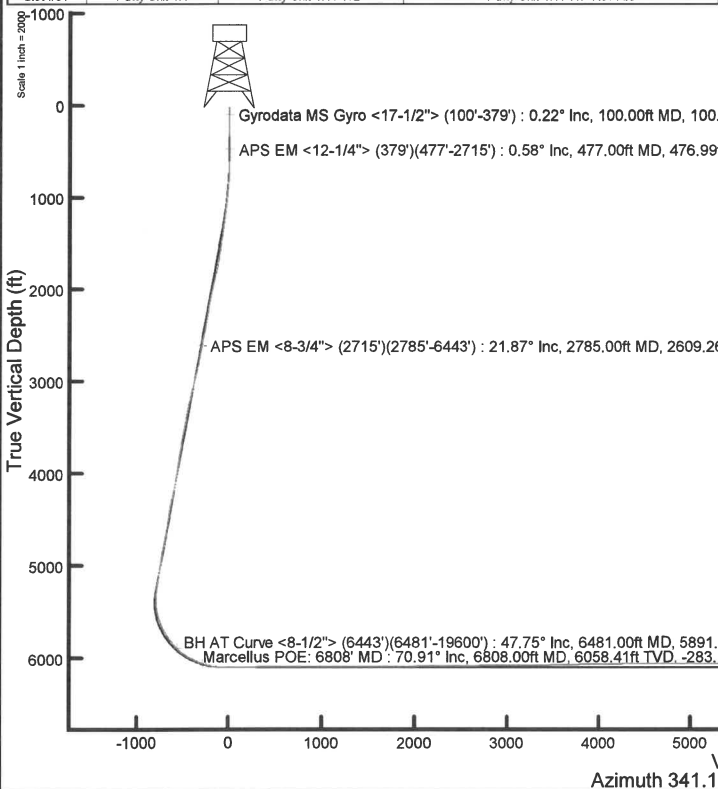


Plot reference wellpath is Patty Unit 1H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 913 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #01): -883 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edswayan on 2021-07-13; Database: WA_MPL_EASTERNUS_Def

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Roma Lou Pad	1647741.529	14338818.190	39°29'8.9000"N	80°58'26.5400"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #01	0.00	0.00	1647741.530	14338818.190
Comment	Patty Unit 1H			
H&P 519 (RKB) to Ground level (At Slot: Slot #01)	30ft			
Mean Sea Level to Ground level (At Slot: Slot #01)	-883ft			
H&P 519 (RKB) to Mean Sea Level	913ft			

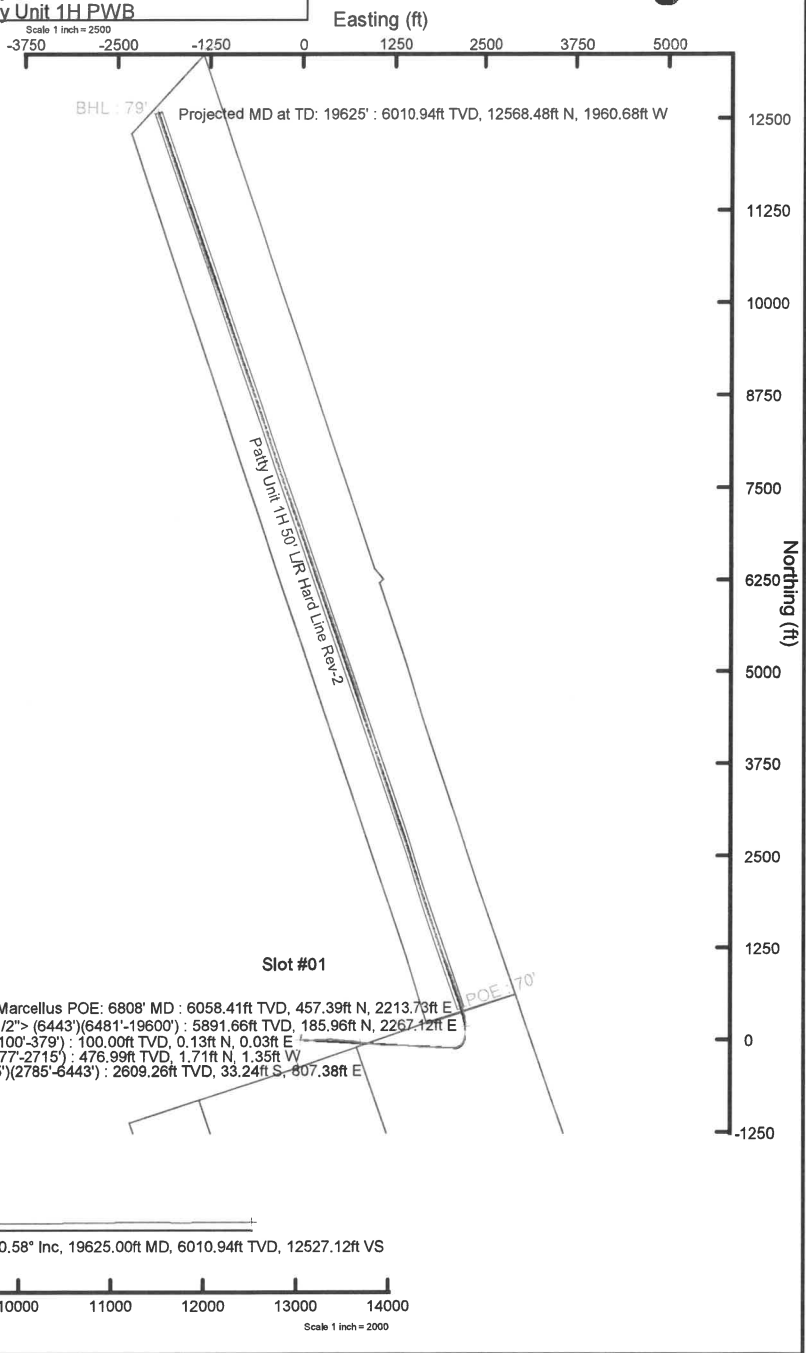
Well Profile Data						
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local E (ft)	VS (ft)
Tie On	30.00	0.000	93.034	30.00	0.00	0.00
KOP 1	500.00	0.000	93.034	500.00	0.00	0.00
End of Build	1365.55	25.367	93.034	1336.23	-10.20	192.53
Curve KOP	5769.23	25.967	93.034	5295.35	-112.25	2117.97
POE	6792.16	70.761	341.131	6058.00	427.96	2199.84
Landing Pt.	7032.65	90.000	341.131	6098.00	651.27	2123.52
BHL	19631.15	90.000	341.131	6098.00	12572.74	-1950.88

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #01	Patty Unit 1H	Patty Unit 1H AWB	Patty Unit 1H AWP Proj: 19625'
Slot #01	Patty Unit 1H	Patty Unit 1H PWB	Patty Unit 1H PWP Rev-A.0



User specified (HDGM) Dip: 66.31° Field: 51485 nT  
 Magnetic North is 7.48 degrees West of True North (at 22/Jun/2021)  
 Grid North is 0.02 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.02 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.50 degrees

API: 47-095-02732-0000  
 BH Job #: 110937702  
 Rig: H&P 519  
 Duration: 6/26/2021-7/3/2021





# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	13/Jul/2021 at 16:03
Convergence at slot	0.02° 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	1647741.53	14338818.19	39°29'8.9000"N	80°58'26.5400"W
Facility Reference Pt			1647741.53	14338818.19	39°29'8.9000"N	80°58'26.5400"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	913.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	913.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #01)	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	341.13°



# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'

Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (215 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	14.670	0.00	0.00	0.00	0.00	1647741.53	14338818.19	39°29'8.9000"N	80°58'26.5400"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	14.670	30.00	0.00	0.00	0.00	1647741.53	14338818.19	39°29'8.9000"N	80°58'26.5400"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.220	14.670	100.00	0.11	0.13	0.03	1647741.56	14338818.32	39°29'8.9013"N	80°58'26.5396"W	0.13	14.670	0.31	0.31	0.00	Gyrodata MS Gyro <17-1/2"> (100'-379')
200.00	0.360	296.530	200.00	0.50	0.46	-0.20	1647741.33	14338818.65	39°29'8.9045"N	80°58'26.5425"W	0.50	336.487	0.38	0.14	-78.14	
300.00	0.500	301.670	300.00	1.06	0.83	-0.85	1647740.68	14338819.02	39°29'8.9082"N	80°58'26.5508"W	1.19	314.132	0.15	0.14	5.14	
379.00	0.520	306.040	378.99	1.62	1.22	-1.43	1647740.10	14338819.41	39°29'8.9120"N	80°58'26.5583"W	1.88	310.327	0.06	0.03	5.53	
477.00	0.580	62.440	476.99	2.05	1.71	-1.35	1647740.18	14338819.90	39°29'8.9169"N	80°58'26.5573"W	2.18	321.604	0.95	0.06	118.78	APS EM <12-1/4"> (379')(477'-2715')
689.00	5.960	82.320	688.57	0.08	3.68	10.51	1647752.04	14338821.87	39°29'8.9363"N	80°58'26.4059"W	11.14	70.722	2.56	2.54	9.38	
780.00	7.850	88.790	778.91	-2.72	4.44	21.41	1647762.93	14338822.63	39°29'8.9438"N	80°58'26.2669"W	21.87	78.284	2.24	2.08	7.11	
869.00	9.780	94.460	866.85	-7.56	3.98	35.02	1647776.54	14338822.17	39°29'8.9392"N	80°58'26.0933"W	35.25	83.516	2.38	2.17	6.37	
959.00	12.010	96.630	955.23	-14.62	2.30	51.95	1647793.46	14338820.49	39°29'8.9226"N	80°58'25.8774"W	52.00	87.460	2.52	2.48	2.41	
1050.00	14.520	95.760	1043.79	-23.45	0.07	72.71	1647814.21	14338818.26	39°29'8.9005"N	80°58'25.6127"W	72.71	89.948	2.77	2.76	-0.96	
1144.00	17.270	93.380	1134.19	-33.65	-1.94	98.36	1647839.85	14338816.25	39°29'8.8806"N	80°58'25.2854"W	98.38	91.129	3.01	2.93	-2.53	
1239.00	20.060	91.210	1224.18	-44.58	-3.12	128.74	1647870.22	14338815.08	39°29'8.8688"N	80°58'24.8981"W	128.77	91.386	3.03	2.94	-2.28	
1334.00	23.050	89.050	1312.53	-55.90	-3.15	163.63	1647905.09	14338815.04	39°29'8.8684"N	80°58'24.4530"W	163.66	91.103	3.26	3.15	-2.27	
1428.00	26.260	88.170	1397.95	-67.66	-2.18	202.82	1647944.27	14338816.01	39°29'8.8779"N	80°58'23.9532"W	202.84	90.616	3.44	3.41	-0.94	
1523.00	29.080	87.730	1482.08	-80.42	-0.60	246.91	1647988.34	14338817.59	39°29'8.8934"N	80°58'23.3909"W	246.91	90.138	2.98	2.97	-0.46	
1617.00	29.610	86.560	1564.02	-93.12	1.70	292.91	1648034.33	14338819.89	39°29'8.9160"N	80°58'22.8041"W	292.92	89.667	0.83	0.56	-1.24	
1712.00	30.370	86.300	1646.30	-105.65	4.66	340.31	1648081.70	14338822.85	39°29'8.9451"N	80°58'22.1997"W	340.34	89.215	0.81	0.80	-0.27	
1807.00	30.760	88.740	1728.10	-119.29	6.74	388.56	1648129.94	14338824.93	39°29'8.9655"N	80°58'21.5842"W	388.62	89.006	1.37	0.41	2.57	
1901.00	31.180	93.540	1808.71	-135.84	5.77	436.89	1648178.24	14338823.96	39°29'8.9558"N	80°58'20.9678"W	436.93	89.243	2.66	0.45	5.11	
1996.00	29.110	96.700	1890.87	-155.19	1.56	484.39	1648225.73	14338819.75	39°29'8.9140"N	80°58'20.3620"W	484.39	89.816	2.74	-2.18	3.33	
2090.00	26.560	97.080	1973.98	-174.26	-3.70	527.96	1648269.28	14338814.49	39°29'8.8618"N	80°58'19.8063"W	527.98	90.402	2.72	-2.71	0.40	
2185.00	26.300	94.860	2059.05	-192.02	-8.10	570.01	1648311.31	14338810.09	39°29'8.8182"N	80°58'19.2700"W	570.07	90.815	1.08	-0.27	-2.34	
2279.00	24.590	94.060	2143.93	-208.02	-11.25	610.27	1648351.56	14338806.94	39°29'8.7870"N	80°58'18.7565"W	610.38	91.056	1.86	-1.82	-0.85	
2374.00	24.120	91.670	2230.48	-222.54	-13.22	649.39	1648390.66	14338804.98	39°29'8.7674"N	80°58'18.2576"W	649.53	91.166	1.15	-0.49	-2.52	
2468.00	23.600	93.950	2316.45	-236.57	-15.07	687.36	1648428.62	14338803.12	39°29'8.7490"N	80°58'17.7733"W	687.53	91.256	1.13	-0.55	2.43	
2563.00	22.750	99.340	2403.79	-252.63	-19.37	724.46	1648465.70	14338798.83	39°29'8.7064"N	80°58'17.3001"W	724.72	91.531	2.40	-0.89	5.67	
2658.00	22.380	99.960	2491.52	-270.04	-25.48	760.40	1648501.63	14338792.72	39°29'8.6459"N	80°58'16.8418"W	760.83	91.919	0.46	-0.39	0.65	
2715.00	21.940	99.780	2544.31	-280.38	-29.16	781.58	1648522.80	14338789.04	39°29'8.6094"N	80°58'16.5717"W	782.13	92.137	0.78	-0.77	-0.32	



## Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'  
Page 3 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	<b>ANTERO RESOURCES CORPORATION</b>	Well	<b>Patty Unit 1H</b>
Field	<b>Tyler</b>	API	<b>47-095-02732-0000</b>
Facility	<b>Roma Lou Pad</b>	Wellbore	<b>Patty Unit 1H AWB</b>
Slot	<b>Slot #01</b>		

WELLPATH DATA (215 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
2785.00	21.870	98.210	2609.26	-292.58	-33.24	807.38	1648548.58	14338784.96	39°29'8.5690"N	80°58'16.2427"W	808.06	92.358	0.84	-0.10	-2.24	APS EM <8-3/4"> (2715')(2785'-6443')
2847.00	21.750	96.240	2666.82	-302.71	-36.14	830.23	1648571.42	14338782.06	39°29'8.5403"N	80°58'15.9513"W	831.01	92.493	1.20	-0.19	-3.18	
2942.00	23.290	96.880	2754.57	-318.34	-40.31	866.37	1648607.55	14338777.90	39°29'8.4990"N	80°58'15.4903"W	867.31	92.664	1.64	1.62	0.67	
3037.00	26.130	99.260	2840.87	-336.37	-45.92	905.67	1648646.84	14338772.29	39°29'8.4434"N	80°58'14.9891"W	906.83	92.903	3.17	2.99	2.51	
3131.00	26.400	98.340	2925.16	-355.68	-52.28	946.78	1648687.93	14338765.93	39°29'8.3804"N	80°58'14.4649"W	948.22	93.161	0.52	0.29	-0.98	
3226.00	27.920	97.730	3009.69	-375.30	-58.34	989.72	1648730.85	14338759.87	39°29'8.3204"N	80°58'13.9172"W	991.43	93.373	1.63	1.60	-0.64	
3321.00	29.470	96.810	3093.02	-395.39	-64.10	1034.96	1648776.08	14338754.11	39°29'8.2633"N	80°58'13.3402"W	1036.95	93.544	1.70	1.63	-0.97	
3418.00	29.500	94.930	3177.45	-415.37	-68.98	1082.45	1648823.54	14338749.23	39°29'8.2149"N	80°58'12.7346"W	1084.65	93.647	0.95	0.03	-1.94	
3513.00	29.330	92.900	3260.21	-433.43	-72.17	1128.99	1648870.07	14338746.05	39°29'8.1832"N	80°58'12.1410"W	1131.30	93.658	1.06	-0.18	-2.14	
3606.00	29.060	89.930	3341.40	-449.16	-73.30	1174.33	1648891.39	14338744.92	39°29'8.1720"N	80°58'11.5627"W	1176.61	93.572	1.58	-0.29	-3.19	
3700.00	28.940	87.340	3423.62	-462.87	-72.21	1219.88	1648960.92	14338746.01	39°29'8.1825"N	80°58'10.9818"W	1222.01	93.388	1.34	-0.13	-2.76	
3794.00	27.640	90.580	3506.39	-476.48	-71.38	1264.40	1649005.43	14338746.84	39°29'8.1906"N	80°58'10.4139"W	1266.42	93.231	2.14	-1.38	3.45	
3888.00	26.780	93.330	3589.99	-491.74	-72.83	1307.35	1649048.36	14338745.39	39°29'8.1761"N	80°58'9.8662"W	1309.38	93.189	1.62	-0.91	2.93	
3983.00	26.150	90.120	3675.04	-506.64	-74.12	1349.65	1649090.64	14338744.10	39°29'8.1633"N	80°58'9.3266"W	1351.69	93.143	1.65	-0.66	-3.38	
4078.00	25.500	91.900	3760.56	-520.70	-74.84	1391.03	1649132.00	14338743.38	39°29'8.1560"N	80°58'8.7989"W	1393.04	93.080	1.06	-0.68	1.87	
4173.00	23.090	91.760	3847.14	-534.52	-76.09	1430.09	1649171.05	14338742.13	39°29'8.1435"N	80°58'8.3007"W	1432.11	93.046	2.54	-2.54	-0.15	
4267.00	23.620	92.350	3933.43	-547.83	-77.43	1467.33	1649208.27	14338740.79	39°29'8.1302"N	80°58'7.8258"W	1469.37	93.021	0.62	0.56	0.63	
4362.00	25.350	91.070	4019.89	-561.66	-78.59	1506.68	1649247.61	14338739.63	39°29'8.1186"N	80°58'7.3239"W	1508.73	92.986	1.90	1.82	-1.35	
4457.00	24.390	95.920	4106.09	-576.82	-80.99	1546.53	1649287.44	14338737.23	39°29'8.0947"N	80°58'6.8157"W	1548.65	92.998	2.37	-1.01	5.11	
4551.00	25.010	100.000	4191.49	-594.55	-86.44	1585.41	1649326.30	14338731.78	39°29'8.0407"N	80°58'6.3198"W	1587.76	93.121	1.93	0.66	4.34	
4646.00	27.520	98.360	4276.68	-614.29	-93.12	1626.91	1649367.78	14338725.11	39°29'7.9745"N	80°58'5.7906"W	1629.57	93.276	2.75	2.64	-1.73	
4740.00	27.400	93.300	4360.10	-632.40	-97.53	1669.99	1649410.85	14338720.70	39°29'7.9308"N	80°58'5.2411"W	1672.84	93.342	2.48	-0.13	-5.38	
4835.00	26.730	87.350	4444.71	-646.62	-97.80	1713.17	1649454.01	14338720.43	39°29'7.9280"N	80°58'4.6905"W	1715.95	93.267	2.93	-0.71	-6.26	
4930.00	24.910	87.730	4530.22	-658.30	-96.02	1754.50	1649495.33	14338722.21	39°29'7.9454"N	80°58'4.1632"W	1757.13	93.132	1.92	-1.92	0.40	
5024.00	23.840	93.270	4615.85	-671.12	-96.32	1793.25	1649534.06	14338721.91	39°29'7.9424"N	80°58'3.6690"W	1795.84	93.074	2.68	-1.14	5.89	
5119.00	25.130	95.570	4702.31	-686.70	-99.37	1832.50	1649573.29	14338718.86	39°29'7.9120"N	80°58'3.1684"W	1835.19	93.104	1.69	1.36	2.42	
5214.00	27.100	96.230	4787.61	-704.23	-103.68	1874.09	1649614.87	14338714.56	39°29'7.8693"N	80°58'2.6380"W	1876.96	93.166	2.10	2.07	0.69	
5308.00	27.000	91.010	4871.34	-720.57	-106.38	1916.72	1649657.48	14338711.86	39°29'7.8425"N	80°58'2.0944"W	1919.67	93.177	2.53	-0.11	-5.55	
5402.00	26.360	85.440	4955.34	-732.98	-105.09	1958.86	1649699.60	14338713.14	39°29'7.8550"N	80°58'1.5569"W	1961.68	93.071	2.75	-0.68	-5.93	
5497.00	24.690	88.370	5041.07	-744.08	-102.85	1999.72	1649740.45	14338715.38	39°29'7.8770"N	80°58'1.0357"W	2002.37	92.944	2.20	-1.76	3.08	



# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'  
Page 4 of 11



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Patty Unit 1H
Field	Tyler		API	47-095-02732-0000
Facility	Roma Lou Pad		Wellbore	Patty Unit 1H AWB
Slot	Slot #01			

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MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
5592.00	24.810	93.140	5127.35	-757.43	-103.38	2039.46	1649780.17	14338714.85	39°29'7.8717"N	80°58'0.5289"W	2042.08	92.902	2.11	0.13	5.02	
5686.00	25.740	94.160	5212.35	-772.81	-105.94	2079.51	1649820.21	14338712.29	39°29'7.8462"N	80°58'0.0181"W	2082.21	92.916	1.09	0.99	1.09	
5780.00	25.060	83.420	5297.31	-785.03	-105.14	2119.67	1649860.35	14338713.09	39°29'7.8540"N	80°57'59.5059"W	2122.27	92.840	4.95	-0.72	-11.43	
5875.00	25.310	68.620	5383.37	-788.43	-95.42	2158.60	1649899.27	14338722.81	39°29'7.9499"N	80°57'59.0093"W	2160.71	92.531	6.62	0.26	-15.58	
5970.00	25.670	52.960	5469.22	-781.12	-75.60	2193.98	1649934.63	14338742.62	39°29'8.1456"N	80°57'58.5580"W	2195.28	91.973	7.09	0.38	-16.48	
6065.00	26.420	36.280	5554.69	-762.60	-46.13	2222.95	1649963.59	14338772.08	39°29'8.4368"N	80°57'58.1884"W	2223.43	91.189	7.73	0.79	-17.56	
6159.00	28.090	18.160	5638.39	-732.93	-8.17	2242.26	1649982.88	14338810.02	39°29'8.8119"N	80°57'57.9420"W	2242.27	90.209	8.97	1.78	-19.28	
6254.00	34.100	10.310	5719.74	-691.77	39.34	2254.01	1649994.63	14338857.52	39°29'9.2814"N	80°57'57.7918"W	2254.35	89.000	7.62	6.33	-8.26	
6349.00	39.260	6.390	5795.91	-641.29	95.46	2262.13	1650002.75	14338913.61	39°29'9.8361"N	80°57'57.6880"W	2264.14	87.584	5.96	5.43	-4.13	
6428.00†	44.251	2.901	5854.83	-593.05	147.87	2266.31	1650006.93	14338966.00	39°29'10.3540"N	80°57'57.6344"W	2271.13	86.267	6.97	6.32	-4.42	Sycamore: 6428' MD
6443.00	45.210	2.310	5865.49	-583.22	158.42	2266.79	1650007.41	14338976.54	39°29'10.4583"N	80°57'57.6283"W	2272.32	86.002	6.97	6.39	-3.94	
6481.00	47.750	359.130	5891.66	-557.27	185.96	2267.12	1650007.74	14339004.08	39°29'10.7305"N	80°57'57.6239"W	2274.73	85.311	9.03	6.68	-8.37	BH AT Curve <8-1/2"> (6443')(6481'-19600')
6552.00	49.970	356.770	5938.37	-506.09	239.39	2265.19	1650005.81	14339057.48	39°29'11.2585"N	80°57'57.6483"W	2277.80	83.967	4.01	3.13	-3.32	
6572.00†	52.336	354.767	5950.92	-491.02	254.92	2264.03	1650004.65	14339073.01	39°29'11.4120"N	80°57'57.6630"W	2278.34	83.576	14.17	11.83	-10.02	Middlesex: 6572' MD
6647.00†	61.460	348.240	5991.86	-429.30	316.91	2254.58	1649995.21	14339134.97	39°29'12.0247"N	80°57'57.7832"W	2276.75	81.999	14.17	12.16	-8.70	
6740.00†	65.693	342.579	6033.27	-346.31	397.43	2233.55	1649974.18	14339215.46	39°29'12.8206"N	80°57'58.0511"W	2268.63	79.911	7.10	4.55	-6.09	Burkett: 6740' MD
6741.00	65.740	342.520	6033.68	-345.40	398.30	2233.27	1649973.91	14339216.32	39°29'12.8292"N	80°57'58.0546"W	2268.51	79.888	7.10	4.67	-5.87	
6808.00†	70.914	340.904	6058.41	-283.16	457.39	2213.73	1649954.37	14339275.39	39°29'13.4133"N	80°57'58.3036"W	2260.48	78.326	8.04	7.72	-2.41	Marcellus POE: 6808' MD
6836.00	73.080	340.260	6067.07	-256.54	482.50	2204.87	1649945.52	14339300.49	39°29'13.6615"N	80°57'58.4164"W	2257.05	77.656	8.04	7.74	-2.30	
6931.00	79.350	339.720	6089.69	-164.34	569.15	2173.31	1649913.97	14339387.11	39°29'14.5180"N	80°57'58.8185"W	2246.60	75.325	6.62	6.60	-0.57	
7026.00	89.510	340.790	6098.90	-69.92	658.02	2141.42	1649882.09	14339475.95	39°29'15.3965"N	80°57'59.2249"W	2240.24	72.919	10.75	10.69	1.13	
7121.00	90.430	339.730	6098.95	25.06	747.44	2109.33	1649850.02	14339565.33	39°29'16.2804"N	80°57'59.6337"W	2237.85	70.488	1.48	0.97	-1.12	
7215.00	91.080	340.560	6097.71	119.04	835.84	2077.41	1649818.11	14339653.70	39°29'17.1542"N	80°58'0.0404"W	2239.26	68.083	1.12	0.69	0.88	
7310.00	90.620	339.380	6096.30	214.01	925.08	2044.88	1649785.59	14339742.90	39°29'18.0363"N	80°58'0.4550"W	2244.39	65.658	1.33	-0.48	-1.24	
7405.00	90.580	337.650	6095.31	308.90	1013.48	2010.09	1649750.81	14339831.26	39°29'18.9101"N	80°58'0.8983"W	2251.13	63.243	1.82	-0.04	-1.82	
7499.00	90.090	338.780	6094.76	402.77	1100.76	1975.20	1649715.94	14339918.51	39°29'19.7728"N	80°58'1.3428"W	2261.21	60.870	1.31	-0.52	1.20	
7594.00	90.830	340.500	6094.00	497.74	1189.82	1942.15	1649682.90	14340007.53	39°29'20.6532"N	80°58'1.7640"W	2277.63	58.507	1.97	0.78	1.81	
7689.00	90.030	340.590	6093.28	592.73	1279.39	1910.51	1649651.27	14340097.07	39°29'21.5385"N	80°58'2.1671"W	2299.32	56.191	0.85	-0.84	0.09	
7784.00	90.460	340.450	6092.88	687.72	1368.95	1878.83	1649619.61	14340186.59	39°29'22.4238"N	80°58'2.5708"W	2324.66	53.922	0.48	0.45	-0.15	
7878.00	89.720	340.540	6092.73	781.71	1457.56	1847.45	1649588.23	14340275.16	39°29'23.2997"N	80°58'2.9707"W	2353.19	51.728	0.79	-0.79	0.10	



**Actual Wellpath Report**  
 Patty Unit 1H AWP Proj: 19625'  
 Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (215 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
7973.00	90.030	340.000	6092.94	876.70	1546.98	1815.38	1649556.18	14340364.55	39°29'24.1836"N	80°58'3.3793"W	2385.11	49.564	0.66	0.33	-0.57	
8068.00	89.820	339.960	6093.06	971.68	1636.24	1782.85	1649523.67	14340453.77	39°29'25.0659"N	80°58'3.7937"W	2419.88	47.455	0.23	-0.22	-0.04	
8163.00	89.630	340.120	6093.52	1066.66	1725.53	1750.42	1649491.25	14340543.03	39°29'25.9485"N	80°58'4.2070"W	2457.93	45.410	0.26	-0.20	0.17	
8257.00	90.580	341.410	6093.34	1160.66	1814.28	1719.46	1649460.30	14340631.74	39°29'26.8257"N	80°58'4.6015"W	2499.63	43.463	1.70	1.01	1.37	
8352.00	90.310	341.740	6092.61	1255.65	1904.41	1689.43	1649430.28	14340721.83	39°29'27.7166"N	80°58'4.9841"W	2545.77	41.577	0.45	-0.28	0.35	
8446.00	90.550	340.630	6091.90	1349.65	1993.38	1659.12	1649399.98	14340810.77	39°29'28.5961"N	80°58'5.3704"W	2593.50	39.771	1.21	0.26	-1.18	
8541.00	90.650	340.840	6090.91	1444.64	2083.05	1627.77	1649368.65	14340900.41	39°29'29.4825"N	80°58'5.7698"W	2643.63	38.005	0.24	0.11	0.22	
8636.00	89.910	338.640	6090.44	1539.61	2172.17	1594.88	1649335.77	14340989.49	39°29'30.3633"N	80°58'6.1889"W	2694.80	36.287	2.44	-0.78	-2.32	
8730.00	90.340	341.050	6090.24	1633.58	2260.41	1562.49	1649303.40	14341077.69	39°29'31.2355"N	80°58'6.6016"W	2747.88	34.654	2.60	0.46	2.56	
8825.00	89.910	340.130	6090.03	1728.57	2350.01	1530.92	1649271.84	14341167.25	39°29'32.1212"N	80°58'7.0039"W	2804.68	33.082	1.07	-0.45	-0.97	
8920.00	90.250	340.410	6089.90	1823.56	2439.43	1498.85	1649239.78	14341256.64	39°29'33.0051"N	80°58'7.4126"W	2863.10	31.568	0.46	0.36	0.29	
9014.00	90.370	340.460	6089.39	1917.55	2528.00	1467.37	1649208.32	14341345.17	39°29'33.8806"N	80°58'7.8137"W	2923.01	30.133	0.14	0.13	0.05	
9109.00	90.370	341.090	6088.78	2012.55	2617.70	1436.09	1649177.05	14341434.84	39°29'34.7672"N	80°58'8.2123"W	2985.75	28.750	0.66	0.00	0.66	
9204.00	90.060	341.620	6088.42	2107.54	2707.71	1405.72	1649146.69	14341524.81	39°29'35.6570"N	80°58'8.5993"W	3050.86	27.436	0.65	-0.33	0.56	
9299.00	90.460	339.440	6087.99	2202.53	2797.27	1374.06	1649115.04	14341614.34	39°29'36.5422"N	80°58'9.0028"W	3116.53	26.161	2.33	0.42	-2.29	
9393.00	91.170	340.130	6086.65	2296.50	2885.47	1341.58	1649082.57	14341702.50	39°29'37.4141"N	80°58'9.4167"W	3182.11	24.936	1.05	0.76	0.73	
9488.00	90.000	340.610	6085.68	2391.48	2974.95	1309.67	1649050.67	14341791.94	39°29'38.2984"N	80°58'9.8234"W	3250.47	23.761	1.33	-1.23	0.51	
9583.00	91.050	344.170	6084.81	2486.44	3065.47	1280.94	1649021.95	14341882.43	39°29'39.1933"N	80°58'10.1895"W	3322.34	22.678	3.91	1.11	3.75	
9677.00	89.820	341.370	6084.10	2580.38	3155.24	1253.10	1648994.12	14341972.16	39°29'40.0806"N	80°58'10.5442"W	3394.97	21.660	3.25	-1.31	-2.98	
9771.00	91.910	342.380	6082.68	2674.36	3244.56	1223.86	1648964.90	14342061.45	39°29'40.9635"N	80°58'10.9168"W	3467.71	20.667	2.47	2.22	1.07	
9866.00	89.780	341.400	6081.28	2769.33	3334.84	1194.33	1648935.38	14342151.69	39°29'41.8558"N	80°58'11.2930"W	3542.26	19.704	2.47	-2.24	-1.03	
9960.00	90.620	341.900	6080.95	2863.33	3424.06	1164.74	1648905.80	14342240.87	39°29'42.7377"N	80°58'11.6701"W	3616.74	18.786	1.04	0.89	0.53	
10055.00	90.770	341.910	6079.80	2958.31	3514.35	1135.24	1648876.31	14342331.13	39°29'43.6302"N	80°58'12.0461"W	3693.16	17.902	0.16	0.16	0.01	
10150.00	89.910	342.140	6079.23	3053.30	3604.71	1105.92	1648847.01	14342421.45	39°29'44.5234"N	80°58'12.4197"W	3770.55	17.056	0.94	-0.91	0.24	
10244.00	90.250	341.580	6079.10	3147.29	3694.04	1076.65	1648817.75	14342510.75	39°29'45.4063"N	80°58'12.7926"W	3847.74	16.249	0.70	0.36	-0.60	
10339.00	90.580	342.880	6078.41	3242.27	3784.50	1047.66	1648788.77	14342601.17	39°29'46.3005"N	80°58'13.1620"W	3926.84	15.474	1.41	0.35	1.37	
10433.00	90.830	342.080	6077.26	3336.23	3874.14	1019.37	1648760.49	14342690.77	39°29'47.1864"N	80°58'13.5226"W	4006.00	14.742	0.89	0.27	-0.85	
10528.00	90.830	342.660	6075.88	3431.20	3964.66	990.60	1648731.73	14342781.26	39°29'48.0813"N	80°58'13.8892"W	4086.54	14.029	0.61	0.00	0.61	
10623.00	93.170	344.020	6072.56	3526.06	4055.61	963.38	1648704.52	14342872.17	39°29'48.9802"N	80°58'14.2360"W	4168.46	13.363	2.85	2.46	1.43	
10717.00	90.250	341.800	6069.76	3619.96	4145.41	935.77	1648676.93	14342961.93	39°29'49.8678"N	80°58'14.5878"W	4249.71	12.721	3.90	-3.11	-2.36	



# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (215 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
10812.00	90.400	341.790	6069.22	3714.95	4235.65	906.09	1648647.26	14343052.14	39°29'50.7598"N	80°58'14.9661"W	4331.48	12.075	0.16	0.16	-0.01	
10906.00	90.400	342.020	6068.56	3808.94	4325.00	876.90	1648618.08	14343141.45	39°29'51.6429"N	80°58'15.3381"W	4413.00	11.461	0.24	0.00	0.24	
11001.00	90.030	342.190	6068.21	3903.93	4415.40	847.71	1648588.90	14343231.82	39°29'52.5365"N	80°58'15.7101"W	4496.04	10.868	0.43	-0.39	0.18	
11096.00	91.290	342.540	6067.11	3998.90	4505.93	818.93	1648560.13	14343322.31	39°29'53.4313"N	80°58'16.0768"W	4579.74	10.301	1.38	1.33	0.37	
11191.00	90.920	342.930	6065.28	4093.84	4596.63	790.74	1648531.95	14343412.97	39°29'54.3278"N	80°58'16.4361"W	4664.15	9.761	0.57	-0.39	0.41	
11285.00	91.080	342.570	6063.64	4187.79	4686.39	762.87	1648504.09	14343502.70	39°29'55.2150"N	80°58'16.7912"W	4748.07	9.246	0.42	0.17	-0.38	
11380.00	91.140	341.720	6061.80	4282.76	4776.80	733.75	1648474.98	14343593.07	39°29'56.1087"N	80°58'17.1624"W	4832.82	8.733	0.90	0.06	-0.89	
11474.00	90.400	340.850	6060.54	4376.75	4865.82	703.59	1648444.84	14343682.05	39°29'56.9886"N	80°58'17.5467"W	4916.42	8.228	1.21	-0.79	-0.93	
11569.00	90.370	340.950	6059.90	4471.74	4955.58	672.50	1648413.76	14343771.78	39°29'57.8759"N	80°58'17.9429"W	5001.01	7.728	0.11	-0.03	0.11	
11664.00	90.180	340.930	6059.44	4566.74	5045.37	641.48	1648382.75	14343861.54	39°29'58.7634"N	80°58'18.3383"W	5085.99	7.246	0.20	-0.20	-0.02	
11759.00	90.120	340.460	6059.19	4661.74	5135.03	610.07	1648351.36	14343951.16	39°29'59.6496"N	80°58'18.7386"W	5171.15	6.775	0.50	-0.06	-0.49	
11853.00	90.180	341.120	6058.95	4755.74	5223.80	579.15	1648320.44	14344039.89	39°30'0.5270"N	80°58'19.1328"W	5255.80	6.326	0.71	0.06	0.70	
11948.00	90.460	340.990	6058.42	4850.73	5313.65	548.30	1648289.61	14344129.70	39°30'1.4152"N	80°58'19.5258"W	5341.86	5.891	0.32	0.29	-0.14	
12042.00	90.400	340.920	6057.71	4944.73	5402.50	517.63	1648258.95	14344218.52	39°30'2.2934"N	80°58'19.9168"W	5427.24	5.473	0.10	-0.06	-0.07	
12137.00	90.430	341.090	6057.02	5039.73	5492.33	486.71	1648228.05	14344308.31	39°30'3.1813"N	80°58'20.3109"W	5513.85	5.064	0.18	0.03	0.18	
12232.00	89.940	341.120	6056.72	5134.73	5582.21	455.95	1648197.29	14344398.15	39°30'4.0697"N	80°58'20.7030"W	5600.80	4.669	0.52	-0.52	0.03	
12326.00	90.060	340.640	6056.72	5228.73	5671.02	425.16	1648166.52	14344486.93	39°30'4.9476"N	80°58'21.0954"W	5686.94	4.287	0.53	0.13	-0.51	
12421.00	90.150	340.070	6056.54	5323.72	5760.49	393.22	1648134.59	14344576.37	39°30'5.8319"N	80°58'21.5025"W	5773.90	3.905	0.61	0.09	-0.60	
12515.00	90.090	340.260	6056.35	5417.70	5848.91	361.32	1648102.71	14344664.75	39°30'6.7059"N	80°58'21.9090"W	5860.06	3.535	0.21	-0.06	0.20	
12610.00	90.340	339.940	6055.99	5512.69	5938.24	328.99	1648070.39	14344754.04	39°30'7.5889"N	80°58'22.3212"W	5947.35	3.171	0.43	0.26	-0.34	
12705.00	90.460	340.980	6055.33	5607.68	6027.77	297.22	1648038.63	14344843.53	39°30'8.4738"N	80°58'22.7262"W	6035.09	2.823	1.10	0.13	1.09	
12799.00	90.280	340.400	6054.72	5701.67	6116.48	266.13	1648007.56	14344932.21	39°30'9.3506"N	80°58'23.1224"W	6122.26	2.491	0.65	-0.19	-0.62	
12894.00	91.050	342.340	6053.62	5796.66	6206.49	235.79	1647977.22	14345022.18	39°30'10.2403"N	80°58'23.5092"W	6210.96	2.176	2.20	0.81	2.04	
12989.00	90.120	340.660	6052.65	5891.65	6296.57	205.65	1647947.09	14345112.23	39°30'11.1307"N	80°58'23.8933"W	6299.93	1.871	2.02	-0.98	-1.77	
13083.00	90.000	341.290	6052.55	5985.65	6385.43	175.00	1647916.46	14345201.06	39°30'12.0091"N	80°58'24.2839"W	6387.83	1.570	0.68	-0.13	0.67	
13178.00	90.710	340.910	6051.96	6080.64	6475.31	144.23	1647885.71	14345290.90	39°30'12.8975"N	80°58'24.6761"W	6476.91	1.276	0.85	0.75	-0.40	
13272.00	90.430	340.840	6051.02	6174.64	6564.12	113.44	1647854.92	14345379.67	39°30'13.7753"N	80°58'25.0687"W	6565.10	0.990	0.31	-0.30	-0.07	
13367.00	90.490	340.710	6050.26	6269.63	6653.82	82.16	1647823.65	14345469.33	39°30'14.6619"N	80°58'25.4674"W	6654.32	0.707	0.15	0.06	-0.14	
13461.00	90.310	341.210	6049.61	6363.63	6742.67	51.49	1647793.00	14345558.15	39°30'15.5402"N	80°58'25.8583"W	6742.87	0.438	0.57	-0.19	0.53	
13556.00	90.030	340.510	6049.32	6458.63	6832.42	20.34	1647761.87	14345647.86	39°30'16.4272"N	80°58'26.2553"W	6832.45	0.171	0.79	-0.29	-0.74	



**Actual Wellpath Report**  
 Patty Unit 1H AWP Proj: 19625'  
 Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	<b>ANTERO RESOURCES CORPORATION</b>	Well	<b>Patty Unit 1H</b>
Field	<b>Tyler</b>	API	<b>47-095-02732-0000</b>
Facility	<b>Roma Lou Pad</b>	Wellbore	<b>Patty Unit 1H AWB</b>
Slot	<b>Slot #01</b>		

WELLPATH DATA (215 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
13651.00	90.860	340.990	6048.59	6553.62	6922.10	-10.97	1647730.56	14345737.51	39°30'17.3137"N	80°58'26.6546"W	6922.11	359.909	1.01	0.87	0.51	
13745.00	89.940	340.820	6047.93	6647.62	7010.93	-41.72	1647699.82	14345826.30	39°30'18.1917"N	80°58'27.0465"W	7011.05	359.659	1.00	-0.98	-0.18	
13840.00	90.590	340.820	6047.49	6742.62	7100.65	-72.93	1647668.62	14345915.99	39°30'19.0786"N	80°58'27.4444"W	7101.03	359.412	0.68	0.68	0.00	
13935.00	90.580	340.500	6046.52	6837.61	7190.29	-104.39	1647637.18	14346005.59	39°30'19.9645"N	80°58'27.8454"W	7191.04	359.168	0.34	-0.01	-0.34	
14029.00	90.370	340.470	6045.74	6931.60	7278.88	-135.79	1647605.79	14346094.15	39°30'20.8403"N	80°58'28.2457"W	7280.15	358.931	0.23	-0.22	-0.03	
14124.00	90.680	340.880	6044.87	7026.59	7368.53	-167.23	1647574.37	14346183.76	39°30'21.7263"N	80°58'28.6464"W	7370.42	358.700	0.54	0.33	0.43	
14218.00	90.250	339.950	6044.11	7120.58	7457.08	-198.74	1647542.87	14346272.28	39°30'22.6017"N	80°58'29.0481"W	7459.73	358.473	1.09	-0.46	-0.99	
14313.00	90.520	340.670	6043.47	7215.57	7546.53	-230.75	1647510.88	14346361.68	39°30'23.4857"N	80°58'29.4561"W	7550.05	358.249	0.81	0.28	0.76	
14408.00	90.550	340.590	6042.58	7310.56	7636.15	-262.25	1647479.38	14346451.27	39°30'24.3716"N	80°58'29.8577"W	7640.65	358.033	0.09	0.03	-0.08	
14502.00	90.180	341.270	6041.98	7404.56	7724.98	-292.96	1647448.68	14346540.07	39°30'25.2497"N	80°58'30.2492"W	7730.54	357.828	0.82	-0.39	0.72	
14597.00	90.030	340.020	6041.81	7499.55	7814.61	-324.45	1647417.21	14346629.66	39°30'26.1356"N	80°58'30.6506"W	7821.35	357.623	1.33	-0.16	-1.32	
14691.00	90.400	340.440	6041.46	7593.54	7903.07	-356.24	1647385.43	14346718.09	39°30'27.0099"N	80°58'31.0559"W	7911.10	357.419	0.60	0.39	0.45	
14786.00	90.060	340.510	6041.08	7688.53	7992.61	-387.99	1647353.69	14346807.59	39°30'27.8949"N	80°58'31.4607"W	8002.02	357.221	0.37	-0.36	0.07	
14881.00	90.250	341.090	6040.82	7783.53	8082.32	-419.24	1647322.46	14346897.26	39°30'28.7817"N	80°58'31.8590"W	8093.19	357.031	0.64	0.20	0.61	
14975.00	90.460	340.810	6040.24	7877.53	8171.17	-449.92	1647291.79	14346986.08	39°30'29.6599"N	80°58'32.2501"W	8183.55	356.848	0.37	0.22	-0.30	
15070.00	90.950	340.680	6039.07	7972.52	8260.85	-481.24	1647260.48	14347075.72	39°30'30.5463"N	80°58'32.6495"W	8274.86	356.666	0.53	0.52	-0.14	
15164.00	89.880	341.450	6038.39	8066.51	8349.76	-511.74	1647229.99	14347164.60	39°30'31.4251"N	80°58'33.0383"W	8365.43	356.493	1.40	-1.14	0.82	
15259.00	90.250	340.490	6038.28	8161.51	8439.57	-542.72	1647199.03	14347254.37	39°30'32.3128"N	80°58'33.4332"W	8457.00	356.321	1.08	0.39	-1.01	
15354.00	90.280	341.450	6037.84	8256.51	8529.37	-573.69	1647168.07	14347344.14	39°30'33.2005"N	80°58'33.8281"W	8548.65	356.152	1.01	0.03	1.01	
15449.00	90.030	341.470	6037.58	8351.50	8619.44	-603.90	1647137.87	14347434.17	39°30'34.0908"N	80°58'34.2132"W	8640.57	355.992	0.26	-0.26	0.02	
15543.00	90.150	340.470	6037.43	8445.50	8708.30	-634.55	1647107.23	14347522.99	39°30'34.9691"N	80°58'34.6039"W	8731.39	355.832	1.07	0.13	-1.06	
15638.00	90.180	340.350	6037.16	8540.49	8797.81	-666.40	1647075.40	14347612.46	39°30'35.8537"N	80°58'35.0100"W	8823.01	355.668	0.13	0.03	-0.13	
15732.00	89.880	340.410	6037.11	8634.49	8886.35	-697.97	1647043.84	14347700.97	39°30'36.7289"N	80°58'35.4124"W	8913.72	355.509	0.33	-0.32	0.06	
15827.00	89.850	340.120	6037.34	8729.48	8975.77	-730.04	1647011.78	14347790.35	39°30'37.6128"N	80°58'35.8214"W	9005.41	355.350	0.31	-0.03	-0.31	
15921.00	90.180	341.080	6037.31	8823.47	9064.43	-761.27	1646980.57	14347878.98	39°30'38.4891"N	80°58'36.2194"W	9096.34	355.199	1.08	0.35	1.02	
16016.00	90.740	340.390	6036.55	8918.46	9154.11	-792.61	1646949.24	14347968.62	39°30'39.3755"N	80°58'36.6190"W	9188.36	355.051	0.94	0.59	-0.73	
16111.00	90.950	341.150	6035.15	9013.45	9243.79	-823.90	1646917.97	14348058.27	39°30'40.2620"N	80°58'37.0179"W	9280.44	354.907	0.83	0.22	0.80	
16205.00	90.340	340.160	6034.09	9107.44	9332.48	-855.03	1646886.84	14348146.92	39°30'41.1386"N	80°58'37.4149"W	9371.57	354.765	1.24	-0.65	-1.05	
16300.00	90.310	340.670	6033.55	9202.43	9421.98	-886.87	1646855.01	14348236.39	39°30'42.0232"N	80°58'37.8209"W	9463.63	354.623	0.54	-0.03	0.54	
16394.00	90.220	340.090	6033.12	9296.42	9510.52	-918.44	1646823.46	14348324.89	39°30'42.8984"N	80°58'38.2233"W	9554.77	354.484	0.62	-0.10	-0.62	





# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'  
Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (215 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	
16489.00	90.580	340.710	6032.45	9391.41	9600.02	-950.30	1646791.61	14348414.35	39°30'43.7830"N	80°58'38.6296"W	9646.94	354.347	0.75	0.38	0.65		
16584.00	90.860	340.380	6031.26	9486.40	9689.58	-981.94	1646759.98	14348503.88	39°30'44.6683"N	80°58'39.0330"W	9739.21	354.213	0.46	0.29	-0.35		
16678.00	90.340	341.310	6030.27	9580.39	9778.37	-1012.79	1646729.15	14348592.63	39°30'45.5459"N	80°58'39.4262"W	9830.68	354.087	1.13	-0.55	0.99		
16773.00	90.460	340.650	6029.61	9675.39	9868.18	-1043.74	1646698.21	14348682.41	39°30'46.4336"N	80°58'39.8209"W	9923.23	353.962	0.71	0.13	-0.69		
16868.00	90.550	340.260	6028.77	9770.38	9957.71	-1075.53	1646666.44	14348771.89	39°30'47.3185"N	80°58'40.2262"W	10015.62	353.835	0.42	0.09	-0.41		
16962.00	90.650	340.780	6027.79	9864.37	10046.32	-1106.87	1646635.10	14348860.47	39°30'48.1943"N	80°58'40.6258"W	10107.11	353.713	0.56	0.11	0.55		
17057.00	90.550	340.130	6026.79	9959.35	10135.84	-1138.65	1646603.34	14348949.96	39°30'49.0792"N	80°58'41.0310"W	10199.60	353.590	0.69	-0.11	-0.68		
17152.00	90.550	339.450	6025.88	10054.32	10224.99	-1171.47	1646570.53	14349039.07	39°30'49.9603"N	80°58'41.4495"W	10291.88	353.464	0.72	0.00	-0.72		
17246.00	90.310	339.960	6025.18	10148.29	10313.15	-1204.07	1646537.94	14349127.19	39°30'50.8317"N	80°58'41.8652"W	10383.20	353.341	0.60	-0.26	0.54		
17341.00	90.620	341.360	6024.41	10243.28	10402.78	-1235.53	1646506.50	14349216.79	39°30'51.7177"N	80°58'42.2663"W	10475.90	353.227	1.51	0.33	1.47		
17436.00	90.710	342.410	6023.30	10338.27	10493.07	-1265.07	1646476.97	14349307.04	39°30'52.6101"N	80°58'42.6429"W	10569.05	353.125	1.11	0.09	1.11		
17530.00	90.370	340.210	6022.42	10432.26	10582.10	-1295.18	1646446.87	14349396.04	39°30'53.4901"N	80°58'43.0269"W	10661.07	353.022	2.37	-0.36	-2.34		
17625.00	90.740	341.330	6021.50	10527.25	10671.79	-1326.47	1646415.59	14349485.70	39°30'54.3766"N	80°58'43.4259"W	10753.92	352.915	1.24	0.39	1.18		
17720.00	90.860	341.810	6020.17	10622.24	10761.91	-1356.50	1646385.57	14349575.78	39°30'55.2674"N	80°58'43.8088"W	10847.07	352.816	0.52	0.13	0.51		
17814.00	90.830	342.020	6018.78	10716.22	10851.26	-1385.68	1646356.41	14349665.09	39°30'56.1505"N	80°58'44.1808"W	10939.38	352.723	0.23	-0.03	0.22		
17909.00	90.650	341.560	6017.56	10811.20	10941.49	-1415.36	1646326.73	14349755.29	39°30'57.0424"N	80°58'44.5593"W	11032.66	352.629	0.52	-0.19	-0.48		
18004.00	90.520	341.410	6016.59	10906.19	11031.57	-1445.53	1646296.58	14349845.33	39°30'57.9327"N	80°58'44.9439"W	11125.88	352.535	0.21	-0.14	-0.16		
18098.00	90.490	341.530	6015.76	11000.19	11120.70	-1475.40	1646266.72	14349934.42	39°30'58.8136"N	80°58'45.3248"W	11218.14	352.443	0.13	-0.03	0.13		
18193.00	90.400	342.030	6015.02	11095.18	11210.93	-1505.11	1646237.03	14350024.61	39°30'59.7055"N	80°58'45.7036"W	11311.51	352.354	0.53	-0.09	0.53		
18287.00	90.400	341.330	6014.36	11189.17	11300.16	-1534.65	1646207.50	14350113.81	39°31'0.5875"N	80°58'46.0803"W	11403.89	352.266	0.74	0.00	-0.74		
18382.00	89.820	341.420	6014.18	11284.17	11390.19	-1564.99	1646177.17	14350203.80	39°31'1.4773"N	80°58'46.4672"W	11497.20	352.177	0.62	-0.61	0.09		
18476.00	89.880	341.690	6014.43	11378.17	11479.36	-1594.73	1646147.44	14350292.93	39°31'2.3586"N	80°58'46.8464"W	11589.60	352.091	0.29	0.06	0.29		
18571.00	89.750	341.540	6014.74	11473.16	11569.51	-1624.69	1646117.49	14350383.05	39°31'3.2497"N	80°58'47.2285"W	11683.03	352.006	0.21	-0.14	-0.16		
18666.00	89.820	341.430	6015.09	11568.16	11659.59	-1654.86	1646087.33	14350473.09	39°31'4.1401"N	80°58'47.6132"W	11776.44	351.922	0.14	0.07	-0.12		
18760.00	89.780	340.630	6015.42	11662.16	11748.48	-1685.42	1646056.79	14350561.95	39°31'5.0187"N	80°58'48.0028"W	11868.76	351.836	0.85	-0.04	-0.85		
18855.00	90.090	341.760	6015.53	11757.16	11838.41	-1716.04	1646026.18	14350651.84	39°31'5.9076"N	80°58'48.3933"W	11962.14	351.752	1.23	0.33	1.19		
18949.00	90.030	341.440	6015.43	11851.16	11927.60	-1745.71	1645996.52	14350741.00	39°31'6.7892"N	80°58'48.7717"W	12054.68	351.673	0.35	-0.06	-0.34		
19044.00	90.430	341.940	6015.05	11946.15	12017.79	-1775.56	1645966.69	14350831.15	39°31'7.6806"N	80°58'49.1522"W	12148.25	351.596	0.67	0.42	0.53		
19138.00	90.370	341.830	6014.39	12040.14	12107.13	-1804.78	1645937.47	14350920.46	39°31'8.5636"N	80°58'49.5249"W	12240.91	351.521	0.13	-0.06	-0.12		
19233.00	90.120	340.810	6013.99	12135.14	12197.13	-1835.21	1645907.06	14351010.41	39°31'9.4531"N	80°58'49.9129"W	12334.42	351.443	1.11	-0.26	-1.07		



# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'  
Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (215 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
19328.00	90.460	341.460	6013.50	12230.13	12287.02	-1865.93	1645876.35	14351100.27	39°31'10.3416"N	80°58'50.3046"W	12427.89	351.365	0.77	0.36	0.68	
19423.00	90.710	341.280	6012.53	12325.13	12377.04	-1896.27	1645846.02	14351190.25	39°31'11.2314"N	80°58'50.6916"W	12521.46	351.290	0.32	0.26	-0.19	
19517.00	90.220	340.990	6011.77	12419.13	12465.99	-1926.67	1645815.64	14351279.17	39°31'12.1105"N	80°58'51.0792"W	12613.99	351.214	0.61	-0.52	-0.31	
19600.00	90.580	342.050	6011.19	12502.12	12544.70	-1952.97	1645789.34	14351357.85	39°31'12.8886"N	80°58'51.4147"W	12695.81	351.151	1.35	0.43	1.28	
19625.00‡	90.580	342.050	6010.94	12527.12	12568.48	-1960.68	1645781.64	14351381.62	39°31'13.1236"N	80°58'51.5129"W	12720.50	351.133	0.00	0.00	0.00	Projected MD at TD: 19625'

HOLE & CASING SECTIONS - Ref Wellbore: Patty Unit 1H AWB Ref Wellpath: Patty Unit 1H AWP Proj: 19625'									
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.17	0.04
17.5in Open Hole	110.00	411.00	301.00	110.00	410.99	0.17	0.04	1.38	-1.58
13.375in Casing Surface	30.00	391.00	361.00	30.00	390.99	0.00	0.00	1.28	-1.51
12.25in Open Hole	411.00	2791.00	2380.00	410.99	2614.82	1.38	-1.58	-33.56	809.59
9.625in Casing Intermediate	30.00	2761.00	2731.00	30.00	2586.99	0.00	0.00	-31.93	798.53
8.75in Open Hole	2791.00	6506.00	3715.00	2614.82	5908.34	-33.56	809.59	204.58	2266.70
8.5in Open Hole	6506.00	19625.00	13119.00	5908.34	6010.94	204.58	2266.70	12568.48	-1960.68
5.5in Casing Production	30.00	19625.00	19595.00	30.00	6010.94	0.00	0.00	12568.48	-1960.68



# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'  
Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Patty Unit 1H POE Rev-1	6058.00	601.90	2140.39	1649881.06	14339419.85	39°29'14.8418"N	80°57'59.2383"W	point
Patty Unit 1H POE Rev-2	6058.00	427.96	2199.84	1649940.49	14339245.97	39°29'13.1225"N	80°57'58.4808"W	point
Patty Unit 1H BHL Rev-1	6098.00	12572.74	-1950.88	1645791.43	14351385.88	39°31'13.1657"N	80°58'51.3879"W	point
Patty Unit 1H LP Rev-2	6098.00	651.27	2123.52	1649864.19	14339469.20	39°29'15.3299"N	80°57'59.4532"W	point
Patty Unit 1H 50' L/R Hard Line Rev-2	6500.00	6500.35	124.48	1647865.96	14345315.93	39°30'13.1450"N	80°58'24.9281"W	rectangle
2D Rectangle 12834.5 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Patty Unit 1H AWB Ref Wellpath: Patty Unit 1H AWP Proj: 19625'					
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')	Patty Unit 1H AWB	22/Jun/2021
379.00	2715.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (379')(477'-2715')	Patty Unit 1H AWB	22/Jun/2021
2715.00	6443.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (2715')(2785'-6443')	Patty Unit 1H AWB	22/Jun/2021
6443.00	19625.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (6443')(6481'-19600')	Patty Unit 1H AWB	22/Jun/2021



# Actual Wellpath Report

Patty Unit 1H AWP Proj: 19625'

Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Patty Unit 1H
Field	Tyler	API	47-095-02732-0000
Facility	Roma Lou Pad	Wellbore	Patty Unit 1H AWB
Slot	Slot #01		

## COMMENTS

### Wellpath general comments

API: 47-095-02732-0000

BH Job #: 110937702

Rig: H&P 519

Duration: 6/26/2021-7/3/2021

Gyrodatta MS Gyro <17-1/2"> (100'-379')

APS EM <12-1/4"> (379')(477'-2715')

APS EM <8-3/4"> (2715')(2785'-6443')

BH AT Curve <8-1/2"> (6443')(6481'-19600')

Sycamore: 6428' MD

Middlesex: 6572' MD

Burkett: 6740' MD

Marcellus POE: 6808' MD

Projected MD at TD: 19625'