



ANTERO RESOURCES CORPORATION



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

Slot: Slot #04
Well: Roy Unit 2H
Wellbore: Roy Unit 2H PWB

Plot reference wellpath is Roy Unit 2H PWP Rev-B.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 #04): -883 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsuryan on 2021-06-09; Database: WA_MPL_EASTERNUS_Defn

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)	Latitude
Slot #04	44.21	9.26	1647750.790	14338862.380	39°29'9.3369"N
Comment	Roy Unit 2H				
H&P 519 (RKB) to Ground level (At Slot: Slot #04)	30ft				
Mean Sea Level to Ground level (At Slot: Slot #04)	-883ft				
H&P 519 (RKB) to Mean Sea Level	913ft				

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2542.00	0.350	207.650	2541.89	-3.96	-18.81	0.18	-2.36
Proj. to Bottom	2620.00	0.350	207.650	2619.89	-4.38	-19.03	0.00	-2.03
Drill Out	2700.00	0.350	207.650	2699.88	-4.82	-19.26	0.00	-1.70
End of Drop	2735.00	0.000	9.017	2734.88	-4.91	-19.31	1.00	-1.63
KOP 1	4700.12	0.000	9.017	4700.00	-4.91	-19.31	0.00	-1.63
End of Build	4973.51	5.468	9.017	4972.98	7.96	-17.26	2.00	-13.14
Curve KOP	5308.87	5.468	9.017	5306.82	39.52	-12.25	0.00	-41.36
POE	6247.98	70.281	161.047	6041.00	-399.06	164.39	8.00	430.81
Landing Pt.	6494.47	90.000	161.047	6083.00	-627.61	242.87	8.00	672.46
BHL	19290.47	90.000	161.047	6083.00	-12729.89	4398.89	0.00	13468.46

Well Data				
Slot	Well	Wellbore	Wellpath	
Slot #04	Roy Unit 2H	Roy Unit 2H AWB	Roy Unit 2H AWP Proj: 19303'	
Slot #04	Roy Unit 2H	Roy Unit 2H PWB	Roy Unit 2H PWP Rev-B.0	

Gyrodata MS Gyro <17-1/2"> (100'-320') : 0.21° Inc, 100.00ft MD, 100.00ft TVD, -0.10ft VS

APS EM <12-1/4"> (320')(507'-2542') : 0.67° Inc, 507.00ft MD, 506.99ft TVD, -0.72ft VS

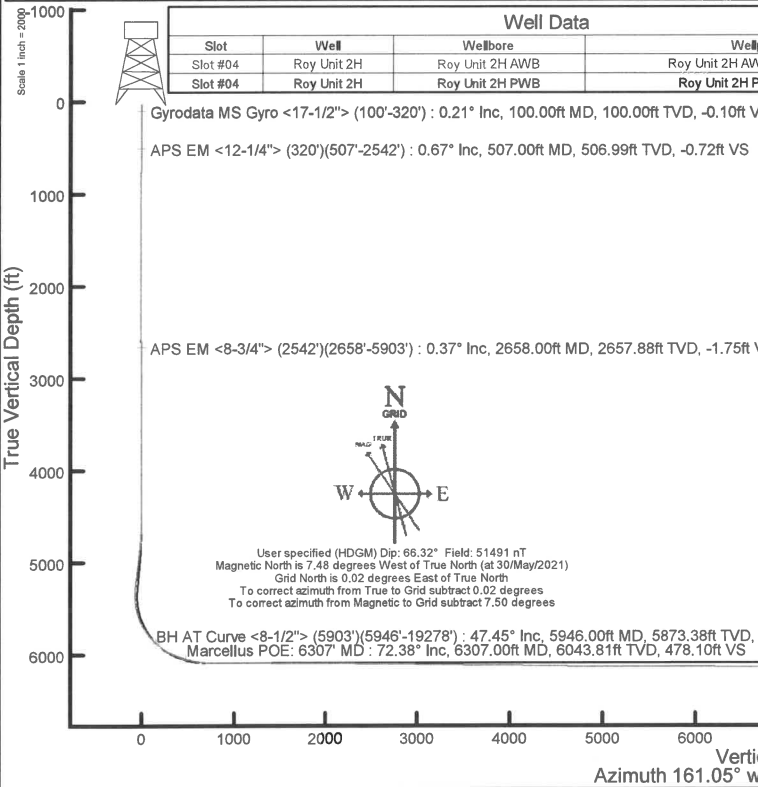
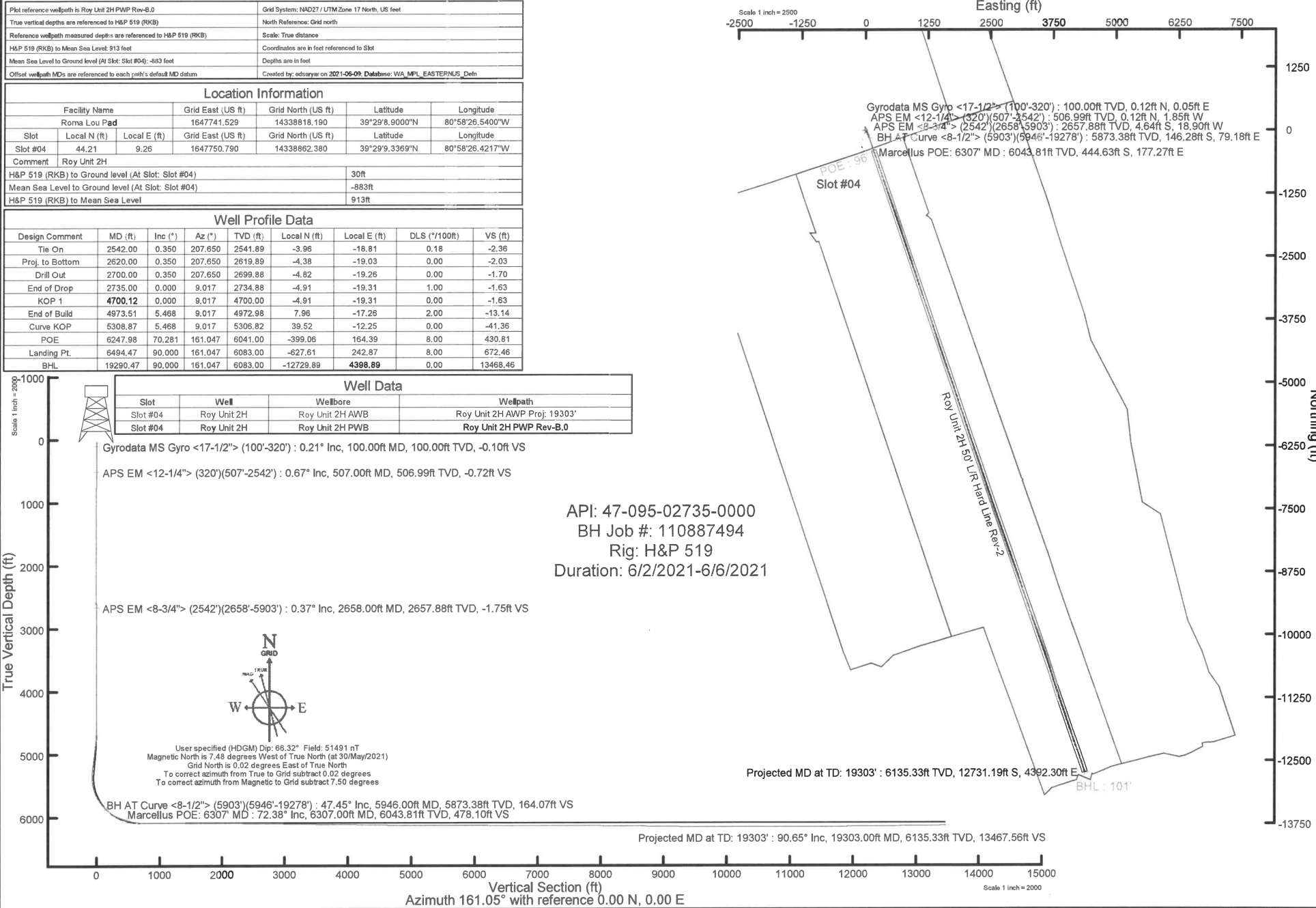
APS EM <8-3/4"> (2542')(2658'-5903') : 0.37° Inc, 2658.00ft MD, 2657.88ft TVD, -1.75ft VS

BH AT Curve <8-1/2"> (5903')(5946'-19278') : 47.45° Inc, 5946.00ft MD, 5873.38ft TVD, 164.07ft VS

Marcellus POE: 6307' MD : 72.38° Inc, 6307.00ft MD, 6043.81ft TVD, 478.10ft VS

User specified (HDGM) Dip: 68.32° Field: 51491 nT
Magnetic North is 7.48 degrees West of True North (at 30/May/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: 47-095-02735-0000
BH Job #: 110887494
Rig: H&P 519
Duration: 6/2/2021-6/6/2021



Projected MD at TD: 19303' : 90.65° Inc, 19303.00ft MD, 6135.33ft TVD, 13467.56ft VS



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

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	09/Jun/2021 at 20:43
Convergence at slot	0.02° East	Database	WA_MPL_EASTERNU_S_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	44.21	9.26	1647750.79	14338862.38	39°29'9.3369"N	80°58'26.4217"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 #04)	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	161.05°



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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	21.270	0.00	0.00	0.00	0.00	1647750.79	14338862.38	39°29'9.3369"N	80°58'26.4217"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	21.270	30.00	0.00	0.00	0.00	1647750.79	14338862.38	39°29'9.3369"N	80°58'26.4217"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.210	21.270	100.00	-0.10	0.12	0.05	1647750.84	14338862.50	39°29'9.3381"N	80°58'26.4211"W	0.13	21.270	0.30	0.30	0.00	Gyrodata MS Gyro <17-1/2"> (100'-320')
200.00	0.150	63.600	200.00	-0.25	0.35	0.23	1647751.02	14338862.73	39°29'9.3403"N	80°58'26.4187"W	0.42	33.452	0.14	-0.06	42.33	
300.00	0.380	256.550	300.00	-0.30	0.33	0.02	1647750.81	14338862.71	39°29'9.3402"N	80°58'26.4214"W	0.33	4.337	0.53	0.23	-167.05	
320.00	0.410	256.620	320.00	-0.32	0.30	-0.11	1647750.68	14338862.68	39°29'9.3398"N	80°58'26.4231"W	0.32	339.864	0.15	0.15	0.35	
507.00	0.670	269.060	506.99	-0.72	0.12	-1.85	1647748.94	14338862.50	39°29'9.3381"N	80°58'26.4453"W	1.86	273.854	0.15	0.14	6.65	APS EM <12-1/4"> (320')(507'-2542')
689.00	0.730	281.420	688.98	-1.64	0.34	-4.05	1647746.74	14338862.72	39°29'9.3402"N	80°58'26.4734"W	4.07	274.752	0.09	0.03	6.79	
779.00	0.640	295.310	778.97	-2.28	0.67	-5.07	1647745.72	14338863.05	39°29'9.3435"N	80°58'26.4863"W	5.11	277.476	0.21	-0.10	15.43	
869.00	0.710	286.240	868.96	-2.95	1.04	-6.06	1647744.73	14338863.42	39°29'9.3472"N	80°58'26.4990"W	6.15	279.703	0.14	0.08	-10.08	
958.00	0.690	287.010	957.96	-3.58	1.35	-7.10	1647743.69	14338863.73	39°29'9.3502"N	80°58'26.5122"W	7.23	280.741	0.02	-0.02	0.87	
1049.00	0.740	292.830	1048.95	-4.29	1.74	-8.17	1647742.63	14338864.11	39°29'9.3541"N	80°58'26.5258"W	8.35	281.996	0.10	0.05	6.40	
1144.00	0.580	292.000	1143.94	-5.02	2.15	-9.18	1647741.62	14338864.53	39°29'9.3582"N	80°58'26.5387"W	9.43	283.205	0.17	-0.17	-0.87	
1239.00	0.820	283.700	1238.94	-5.70	2.49	-10.28	1647740.51	14338864.87	39°29'9.3616"N	80°58'26.5528"W	10.58	283.635	0.27	0.25	-8.74	
1333.00	0.450	257.400	1332.93	-6.10	2.57	-11.30	1647739.50	14338864.95	39°29'9.3624"N	80°58'26.5658"W	11.59	282.832	0.49	-0.39	-27.98	
1428.00	0.480	257.780	1427.93	-6.19	2.41	-12.05	1647738.74	14338864.79	39°29'9.3607"N	80°58'26.5754"W	12.29	281.299	0.03	0.03	0.40	
1522.00	0.480	235.900	1521.92	-6.13	2.10	-12.76	1647738.03	14338864.48	39°29'9.3577"N	80°58'26.5844"W	12.93	279.361	0.19	0.00	-23.28	
1617.00	0.410	232.170	1616.92	-5.92	1.67	-13.36	1647737.44	14338864.05	39°29'9.3535"N	80°58'26.5921"W	13.46	277.134	0.08	-0.07	-3.93	
1712.00	0.500	224.470	1711.92	-5.62	1.17	-13.92	1647736.88	14338863.55	39°29'9.3485"N	80°58'26.5992"W	13.97	274.797	0.11	0.09	-8.11	
1806.00	0.540	223.150	1805.91	-5.23	0.55	-14.51	1647736.29	14338862.93	39°29'9.3424"N	80°58'26.6067"W	14.52	272.179	0.04	0.04	-1.40	
1996.00	0.570	212.450	1995.91	-4.23	-0.90	-15.63	1647735.17	14338861.48	39°29'9.3281"N	80°58'26.6210"W	15.65	266.709	0.06	0.02	-5.63	
2090.00	0.600	244.750	2089.90	-3.88	-1.50	-16.32	1647734.47	14338860.88	39°29'9.3221"N	80°58'26.6299"W	16.39	264.739	0.35	0.03	34.36	
2185.00	0.600	229.020	2184.90	-3.64	-2.04	-17.15	1647733.65	14338860.34	39°29'9.3168"N	80°58'26.6404"W	17.27	263.212	0.17	0.00	-16.56	
2279.00	0.360	227.390	2278.89	-3.34	-2.56	-17.74	1647733.06	14338859.82	39°29'9.3116"N	80°58'26.6479"W	17.92	261.775	0.26	-0.26	-1.73	
2374.00	0.330	222.980	2373.89	-3.09	-2.97	-18.15	1647732.65	14338859.41	39°29'9.3076"N	80°58'26.6531"W	18.39	260.715	0.04	-0.03	-4.64	
2469.00	0.480	212.030	2468.89	-2.71	-3.50	-18.54	1647732.25	14338858.88	39°29'9.3023"N	80°58'26.6582"W	18.87	259.299	0.18	0.16	-11.53	
2542.00	0.350	207.650	2541.89	-2.36	-3.96	-18.81	1647731.99	14338858.42	39°29'9.2978"N	80°58'26.6616"W	19.22	258.109	0.18	-0.18	-6.00	
2658.00	0.370	169.140	2657.88	-1.75	-4.64	-18.90	1647731.90	14338857.74	39°29'9.2911"N	80°58'26.6628"W	19.46	256.202	0.21	0.02	-33.20	APS EM <8-3/4"> (2542')(2658'-5903')
2753.00	0.250	138.830	2752.88	-1.25	-5.10	-18.71	1647732.09	14338857.28	39°29'9.2866"N	80°58'26.6603"W	19.39	254.752	0.21	-0.13	-31.91	
2848.00	0.370	143.960	2847.88	-0.77	-5.50	-18.39	1647732.41	14338856.88	39°29'9.2826"N	80°58'26.6563"W	19.20	253.340	0.13	0.13	5.40	



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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
2943.00	0.290	150.590	2942.88	-0.24	-5.96	-18.09	1647732.70	14338856.42	39°29'9.2780"N	80°58'26.6525"W	19.05	251.764	0.09	-0.08	6.98	
3037.00	0.450	179.090	3036.88	0.35	-6.54	-17.97	1647732.83	14338855.85	39°29'9.2723"N	80°58'26.6509"W	19.12	250.009	0.25	0.17	30.32	
3134.00	0.350	186.310	3133.88	0.98	-7.21	-18.00	1647732.80	14338855.17	39°29'9.2657"N	80°58'26.6512"W	19.39	248.160	0.12	-0.10	7.44	
3228.00	0.060	111.610	3227.88	1.27	-7.52	-17.98	1647732.81	14338854.87	39°29'9.2627"N	80°58'26.6511"W	19.49	247.316	0.36	-0.31	-79.47	
3323.00	0.170	174.710	3322.88	1.44	-7.67	-17.92	1647732.87	14338854.71	39°29'9.2611"N	80°58'26.6503"W	19.50	246.819	0.16	0.12	66.42	
3418.00	0.000	352.500	3417.88	1.58	-7.82	-17.91	1647732.89	14338854.57	39°29'9.2597"N	80°58'26.6501"W	19.54	246.426	0.18	-0.18	0.00	
3512.00	0.370	334.490	3511.87	1.27	-7.54	-18.04	1647732.76	14338854.84	39°29'9.2624"N	80°58'26.6518"W	19.55	247.314	0.39	0.39	0.00	
3607.00	0.500	228.500	3606.87	1.13	-7.54	-18.48	1647732.31	14338854.84	39°29'9.2624"N	80°58'26.6574"W	19.96	247.810	0.74	0.14	-111.57	
3702.00	0.090	229.360	3701.87	1.31	-7.86	-18.85	1647731.95	14338854.52	39°29'9.2592"N	80°58'26.6621"W	20.42	247.359	0.43	-0.43	0.91	
3797.00	0.200	297.420	3796.87	1.22	-7.83	-19.05	1647731.74	14338854.55	39°29'9.2595"N	80°58'26.6647"W	20.60	247.649	0.20	0.12	71.64	
3891.00	0.190	302.050	3890.87	0.98	-7.68	-19.33	1647731.47	14338854.71	39°29'9.2611"N	80°58'26.6683"W	20.80	248.343	0.02	-0.01	4.93	
3986.00	0.560	59.360	3985.87	0.77	-7.36	-19.07	1647731.73	14338855.03	39°29'9.2642"N	80°58'26.6649"W	20.44	248.902	0.70	0.39	123.48	
4081.00	0.300	230.360	4080.87	0.76	-7.28	-18.86	1647731.94	14338855.10	39°29'9.2650"N	80°58'26.6622"W	20.21	248.896	0.90	-0.27	180.00	
4176.00	0.090	54.640	4175.87	0.83	-7.39	-18.99	1647731.81	14338854.99	39°29'9.2639"N	80°58'26.6639"W	20.38	248.725	0.41	-0.22	-184.97	
4270.00	0.290	143.680	4269.87	1.03	-7.54	-18.79	1647732.01	14338854.84	39°29'9.2624"N	80°58'26.6613"W	20.25	248.126	0.32	0.21	94.72	
4365.00	0.400	262.370	4364.87	1.20	-7.78	-18.97	1647731.82	14338854.60	39°29'9.2601"N	80°58'26.6637"W	20.51	247.704	0.63	0.12	124.94	
4460.00	0.690	281.650	4459.86	0.84	-7.71	-19.86	1647730.94	14338854.67	39°29'9.2608"N	80°58'26.6750"W	21.31	248.788	0.36	0.31	20.29	
4555.00	0.610	242.840	4554.86	0.62	-7.82	-20.87	1647729.93	14338854.56	39°29'9.2596"N	80°58'26.6879"W	22.29	249.451	0.46	-0.08	-40.85	
4650.00	2.030	13.030	4649.84	-0.73	-6.42	-20.94	1647729.85	14338855.97	39°29'9.2736"N	80°58'26.6888"W	21.90	252.969	2.60	1.49	137.04	
4744.00	4.930	6.070	4743.66	-5.81	-0.78	-20.14	1647730.66	14338861.60	39°29'9.3293"N	80°58'26.6786"W	20.16	267.794	3.11	3.09	-7.40	
4839.00	7.190	17.550	4838.12	-14.29	8.95	-17.92	1647732.88	14338871.33	39°29'9.4254"N	80°58'26.6502"W	20.03	296.553	2.69	2.38	12.08	
4934.00	7.280	18.370	4932.37	-23.85	20.33	-14.23	1647736.57	14338882.71	39°29'9.5379"N	80°58'26.6031"W	24.82	325.022	0.14	0.09	0.86	
5028.00	7.680	10.780	5025.57	-34.04	32.16	-11.17	1647739.62	14338894.52	39°29'9.6547"N	80°58'26.5641"W	34.04	340.837	1.13	0.43	-8.07	
5123.00	7.440	4.630	5119.74	-45.19	44.52	-9.49	1647741.30	14338906.89	39°29'9.7770"N	80°58'26.5426"W	45.52	347.967	0.89	-0.25	-6.47	
5218.00	7.410	355.270	5213.95	-56.77	56.76	-9.50	1647741.29	14338919.12	39°29'9.8979"N	80°58'26.5426"W	57.55	350.499	1.27	-0.03	-9.85	
5313.00	3.820	9.050	5308.48	-65.50	65.99	-9.51	1647741.29	14338928.35	39°29'9.9892"N	80°58'26.5427"W	66.67	351.802	4.01	-3.78	14.51	
5408.00	4.310	129.380	5403.36	-65.26	66.85	-6.25	1647744.55	14338929.21	39°29'9.9977"N	80°58'26.5011"W	67.15	354.663	7.43	0.52	126.66	
5503.00	11.150	144.930	5497.45	-53.38	57.06	1.80	1647752.59	14338919.42	39°29'9.9008"N	80°58'26.3985"W	57.09	1.808	7.46	7.20	16.37	
5597.00	18.740	151.180	5588.21	-29.74	36.36	14.32	1647765.11	14338898.73	39°29'9.6962"N	80°58'26.2389"W	39.08	21.499	8.24	8.07	6.65	
5692.00	27.000	159.100	5675.69	6.92	2.78	29.40	1647780.18	14338865.16	39°29'9.3643"N	80°58'26.0467"W	29.53	84.603	9.26	8.69	8.34	



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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
5787.00	36.400	161.920	5756.43	56.77	-44.27	45.88	1647796.65	14338818.13	39°29'8.8992"N	80°58'25.8367"W	63.76	133.978	10.01	9.89	2.97	
5882.00	43.940	161.470	5828.97	118.00	-102.40	65.13	1647815.89	14338760.02	39°29'8.3246"N	80°58'25.5914"W	121.36	147.543	7.94	7.94	-0.47	
5898.00†	45.364	162.123	5840.35	129.25	-113.08	68.64	1647819.40	14338749.34	39°29'8.2190"N	80°58'25.5466"W	132.29	148.743	9.35	8.90	4.08	Sycamore: 5898' MD
5903.00	45.810	162.320	5843.85	132.82	-116.49	69.73	1647820.49	14338745.94	39°29'8.1854"N	80°58'25.5327"W	135.76	149.094	9.35	8.92	3.95	
5946.00	47.450	162.500	5873.38	164.07	-146.28	79.18	1647829.94	14338716.16	39°29'7.8909"N	80°58'25.4124"W	166.34	151.575	3.83	3.81	0.42	BH AT Curve <8-1/2"> (5903')(5946'-19278')
5993.00	49.620	161.440	5904.50	199.28	-179.77	90.08	1647840.84	14338682.68	39°29'7.5599"N	80°58'25.2734"W	201.08	153.384	4.92	4.62	-2.26	
6052.00†	55.626	161.297	5940.30	246.14	-224.17	105.06	1647855.80	14338638.30	39°29'7.1210"N	80°58'25.0826"W	247.57	154.890	10.18	10.18	-0.24	Middlesex: 6052' MD
6088.00	59.290	161.220	5959.66	276.48	-252.91	114.81	1647865.55	14338609.57	39°29'6.8370"N	80°58'24.9584"W	277.75	155.585	10.18	10.18	-0.21	
6135.00	63.270	161.430	5982.24	317.69	-291.95	128.00	1647878.74	14338570.55	39°29'6.4511"N	80°58'24.7902"W	318.78	156.326	8.48	8.47	0.45	
6183.00	67.810	161.710	6002.11	361.37	-333.39	141.81	1647892.54	14338529.12	39°29'6.0415"N	80°58'24.6143"W	362.30	156.957	9.47	9.46	0.58	
6230.00	70.800	162.460	6018.72	405.33	-375.22	155.33	1647906.06	14338487.31	39°29'5.6280"N	80°58'24.4420"W	406.10	157.512	6.53	6.36	1.60	
6233.00†	70.784	162.471	6019.71	408.16	-377.92	156.18	1647906.91	14338484.61	39°29'5.6013"N	80°58'24.4311"W	408.92	157.546	0.64	-0.53	0.38	Burkett: 6233' MD
6277.00	70.550	162.640	6034.27	449.66	-417.53	168.63	1647919.35	14338445.02	39°29'5.2098"N	80°58'24.2725"W	450.30	158.008	0.64	-0.53	0.38	
6307.00†	72.382	161.972	6043.81	478.10	-444.63	177.27	1647927.99	14338417.93	39°29'4.9420"N	80°58'24.1624"W	478.66	158.263	6.46	6.11	-2.23	Marcellus POE: 6307' MD
6372.00	76.360	160.570	6061.32	540.68	-503.89	197.38	1647948.09	14338358.69	39°29'4.3561"N	80°58'23.9062"W	541.17	158.610	6.46	6.12	-2.16	
6467.00	83.310	160.420	6078.07	634.13	-591.98	228.58	1647979.28	14338270.64	39°29'3.4854"N	80°58'23.5086"W	634.58	158.887	7.32	7.32	-0.16	
6562.00	89.380	160.480	6084.12	728.88	-681.28	260.29	1648010.97	14338181.37	39°29'2.6028"N	80°58'23.1045"W	729.31	159.090	6.39	6.39	0.06	
6657.00	88.980	160.010	6085.48	823.87	-770.68	292.40	1648043.07	14338092.01	39°29'1.7191"N	80°58'22.6954"W	824.28	159.223	0.65	-0.42	-0.49	
6751.00	89.970	159.460	6086.35	917.84	-858.86	324.95	1648075.61	14338003.87	39°29'0.8475"N	80°58'22.2805"W	918.28	159.276	1.20	1.05	-0.59	
6846.00	89.780	160.570	6086.55	1012.82	-948.14	357.42	1648108.07	14337914.63	39°28'59.9651"N	80°58'21.8667"W	1013.27	159.345	1.19	-0.20	1.17	
6941.00	90.030	160.890	6086.71	1107.82	-1037.81	388.77	1648139.41	14337824.98	39°28'59.0787"N	80°58'21.4672"W	1108.24	159.464	0.43	0.26	0.34	
7036.00	89.290	159.030	6087.27	1202.79	-1127.05	421.32	1648171.94	14337735.78	39°28'58.1965"N	80°58'21.0524"W	1203.23	159.503	2.11	-0.78	-1.96	
7130.00	89.540	160.330	6088.23	1296.76	-1215.20	453.96	1648204.57	14337647.67	39°28'57.3253"N	80°58'20.6365"W	1297.22	159.516	1.41	0.27	1.38	
7225.00	89.170	159.870	6089.30	1391.74	-1304.52	486.30	1648236.89	14337558.39	39°28'56.4424"N	80°58'20.2245"W	1392.21	159.556	0.62	-0.39	-0.48	
7320.00	88.980	158.950	6090.84	1486.69	-1393.44	519.70	1648270.28	14337469.50	39°28'55.5635"N	80°58'19.7988"W	1487.20	159.546	0.99	-0.20	-0.97	
7415.00	89.320	159.370	6092.25	1581.62	-1482.21	553.50	1648304.06	14337380.76	39°28'54.6880"N	80°58'19.3682"W	1582.19	159.523	0.57	0.36	0.44	
7510.00	89.540	158.810	6093.19	1676.56	-1570.95	587.40	1648337.95	14337292.06	39°28'53.8088"N	80°58'18.9361"W	1677.18	159.499	0.63	0.23	-0.59	
7604.00	89.510	160.060	6093.97	1770.52	-1658.96	620.42	1648370.96	14337204.09	39°28'52.9389"N	80°58'18.5154"W	1771.17	159.495	1.33	-0.03	1.33	
7699.00	90.650	162.040	6093.84	1865.51	-1748.80	651.27	1648401.79	14337114.28	39°28'52.0509"N	80°58'18.1223"W	1866.13	159.574	2.40	1.20	2.08	
7794.00	89.320	159.530	6093.86	1960.50	-1838.50	682.53	1648433.04	14337024.62	39°28'51.1643"N	80°58'17.7240"W	1961.10	159.633	2.99	-1.40	-2.64	



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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
7889.00	89.630	162.300	6094.73	2055.49	-1928.27	713.59	1648464.09	14336934.89	39°28'50.2770"N	80°58'17.3283"W	2056.07	159.692	2.93	0.33	2.92	
7984.00	90.180	161.990	6094.89	2150.47	-2018.69	742.71	1648493.20	14336844.50	39°28'49.3832"N	80°58'16.9572"W	2150.98	159.800	0.66	0.58	-0.33	
8078.00	89.450	161.610	6095.19	2244.46	-2107.99	772.07	1648522.55	14336755.24	39°28'48.5005"N	80°58'16.5831"W	2244.93	159.884	0.88	-0.78	-0.40	
8173.00	89.200	161.620	6096.31	2339.45	-2198.13	802.03	1648552.50	14336665.13	39°28'47.6095"N	80°58'16.2014"W	2339.88	159.954	0.26	-0.26	0.01	
8268.00	89.570	161.670	6097.33	2434.44	-2288.29	831.95	1648582.40	14336575.01	39°28'46.7183"N	80°58'15.8202"W	2434.83	160.020	0.39	0.39	0.05	
8363.00	90.000	160.350	6097.69	2529.44	-2378.12	862.86	1648613.30	14336485.22	39°28'45.8304"N	80°58'15.4264"W	2529.82	160.058	1.46	0.45	-1.39	
8458.00	89.260	161.740	6098.30	2624.43	-2467.96	893.72	1648644.15	14336395.41	39°28'44.9424"N	80°58'15.0332"W	2624.80	160.093	1.66	-0.78	1.46	
8552.00	89.020	161.390	6099.71	2718.42	-2557.13	923.44	1648673.86	14336306.28	39°28'44.0610"N	80°58'14.6546"W	2718.76	160.144	0.45	-0.26	-0.37	
8647.00	90.150	163.450	6100.40	2813.38	-2647.68	952.13	1648702.54	14336215.76	39°28'43.1659"N	80°58'14.2891"W	2813.68	160.221	2.47	1.19	2.17	
8742.00	88.950	162.060	6101.15	2908.33	-2738.41	980.29	1648730.69	14336125.08	39°28'42.2692"N	80°58'13.9303"W	2908.58	160.304	1.93	-1.26	-1.46	
8837.00	88.770	162.010	6103.04	3003.30	-2828.76	1009.59	1648759.97	14336034.76	39°28'41.3761"N	80°58'13.5571"W	3003.52	160.358	0.20	-0.19	-0.05	
8931.00	89.420	160.600	6104.52	3097.28	-2917.78	1039.71	1648790.08	14335945.77	39°28'40.4961"N	80°58'13.1733"W	3097.49	160.387	1.65	0.69	-1.50	
9026.00	89.910	163.140	6105.08	3192.27	-3008.06	1069.27	1648819.63	14335855.53	39°28'39.6038"N	80°58'12.7967"W	3192.45	160.431	2.72	0.52	2.67	
9121.00	88.710	161.920	6106.22	3287.22	-3098.67	1097.79	1648848.14	14335764.96	39°28'38.7082"N	80°58'12.4334"W	3287.38	160.492	1.80	-1.26	-1.28	
9216.00	88.800	161.800	6108.29	3382.19	-3188.92	1127.36	1648877.69	14335674.74	39°28'37.8161"N	80°58'12.0567"W	3382.33	160.530	0.16	0.09	-0.13	
9311.00	89.910	161.780	6109.36	3477.18	-3279.16	1157.04	1648907.37	14335584.54	39°28'36.9241"N	80°58'11.6785"W	3477.30	160.565	1.17	1.17	-0.02	
9405.00	89.080	162.580	6110.19	3571.15	-3368.64	1185.81	1648936.12	14335495.09	39°28'36.0396"N	80°58'11.3121"W	3571.26	160.607	1.23	-0.88	0.85	
9500.00	88.980	161.700	6111.79	3666.12	-3459.05	1214.94	1648965.24	14335404.72	39°28'35.1460"N	80°58'10.9410"W	3666.21	160.647	0.93	-0.11	-0.93	
9595.00	89.850	161.740	6112.76	3761.11	-3549.25	1244.73	1648995.02	14335314.56	39°28'34.2544"N	80°58'10.5614"W	3761.19	160.674	0.92	0.92	0.04	
9690.00	89.720	162.260	6113.12	3856.09	-3639.60	1274.09	1649024.37	14335224.24	39°28'33.3614"N	80°58'10.1874"W	3856.16	160.707	0.56	-0.14	0.55	
9785.00	89.320	162.010	6113.92	3951.07	-3730.02	1303.23	1649053.50	14335133.86	39°28'32.4676"N	80°58'9.8162"W	3951.13	160.741	0.50	-0.42	-0.26	
9879.00	89.630	163.100	6114.78	4045.04	-3819.69	1331.41	1649081.67	14335044.23	39°28'31.5813"N	80°58'9.4572"W	4045.08	160.783	1.21	0.33	1.16	
9974.00	89.020	161.810	6115.90	4140.00	-3910.26	1360.05	1649110.29	14334953.69	39°28'30.6860"N	80°58'9.0924"W	4140.03	160.822	1.50	-0.64	-1.36	
10069.00	89.420	161.770	6117.19	4234.98	-4000.49	1389.73	1649139.96	14334863.50	39°28'29.7941"N	80°58'8.7143"W	4235.01	160.843	0.42	0.42	-0.04	
10164.00	89.290	161.560	6118.26	4329.97	-4090.66	1419.61	1649169.83	14334773.36	39°28'28.9028"N	80°58'8.3336"W	4329.99	160.861	0.26	-0.14	-0.22	
10259.00	88.980	161.630	6119.69	4424.95	-4180.79	1449.61	1649199.81	14334683.27	39°28'28.0119"N	80°58'7.9516"W	4424.97	160.877	0.33	-0.33	0.07	
10353.00	88.860	161.680	6121.46	4518.93	-4270.00	1479.19	1649229.38	14334594.10	39°28'27.1302"N	80°58'7.5748"W	4518.95	160.893	0.14	-0.13	0.05	
10448.00	89.690	161.260	6122.67	4613.92	-4360.07	1509.37	1649259.56	14334504.06	39°28'26.2399"N	80°58'7.1902"W	4613.94	160.905	0.98	0.87	-0.44	
10542.00	89.290	160.270	6123.50	4707.91	-4448.82	1540.34	1649290.51	14334415.35	39°28'25.3626"N	80°58'6.7957"W	4707.93	160.902	1.14	-0.43	-1.05	
10637.00	90.150	161.390	6123.97	4802.91	-4538.54	1571.53	1649321.69	14334325.66	39°28'24.4757"N	80°58'6.3983"W	4802.93	160.901	1.49	0.91	1.18	



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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	
10731.00	89.450	161.030	6124.30	4896.91	-4627.53	1601.81	1649351.96	14334236.71	39°28'23.5961"N	80°58'6.0126"W	4896.92	160.907	0.84	-0.74	-0.38		
10826.00	89.880	159.520	6124.85	4991.90	-4716.95	1633.87	1649384.01	14334147.32	39°28'22.7122"N	80°58'5.6042"W	4991.91	160.895	1.65	0.45	-1.59		
10921.00	89.140	159.740	6125.66	5086.88	-4806.01	1666.94	1649417.06	14334058.30	39°28'21.8319"N	80°58'5.1829"W	5086.89	160.871	0.81	-0.78	0.23		
11015.00	90.520	161.120	6125.94	5180.85	-4894.58	1698.42	1649448.53	14333969.77	39°28'20.9565"N	80°58'4.7819"W	5180.88	160.863	2.08	1.47	1.47		
11110.00	90.000	160.610	6125.51	5275.85	-4984.32	1729.56	1649479.66	14333880.06	39°28'20.0693"N	80°58'4.3852"W	5275.88	160.863	0.77	-0.55	-0.54		
11205.00	90.030	161.390	6125.49	5370.85	-5074.15	1760.49	1649510.57	14333790.27	39°28'19.1815"N	80°58'3.9912"W	5370.88	160.866	0.82	0.03	0.82		
11300.00	89.600	161.880	6125.79	5465.84	-5164.31	1790.42	1649540.49	14333700.15	39°28'18.2903"N	80°58'3.6099"W	5465.87	160.879	0.69	-0.45	0.52		
11394.00	89.510	159.480	6126.52	5559.83	-5253.01	1821.52	1649571.58	14333611.49	39°28'17.4135"N	80°58'3.2138"W	5559.86	160.876	2.55	-0.10	-2.55		
11489.00	89.690	161.380	6127.19	5654.82	-5342.51	1853.34	1649603.38	14333522.02	39°28'16.5288"N	80°58'2.8085"W	5654.85	160.868	2.01	0.19	2.00		
11584.00	89.600	160.060	6127.78	5749.81	-5432.18	1884.70	1649634.74	14333432.38	39°28'15.6424"N	80°58'2.4089"W	5749.84	160.866	1.39	-0.09	-1.39		
11678.00	89.600	161.210	6128.43	5843.81	-5520.86	1915.87	1649665.89	14333343.74	39°28'14.7659"N	80°58'2.0119"W	5843.84	160.862	1.22	0.00	1.22		
11773.00	89.910	161.340	6128.84	5938.81	-5610.83	1946.37	1649696.38	14333253.81	39°28'13.8766"N	80°58'1.6235"W	5938.83	160.869	0.35	0.33	0.14		
11868.00	89.880	161.670	6129.01	6033.80	-5700.92	1976.51	1649726.50	14333163.75	39°28'12.9860"N	80°58'1.2396"W	6033.83	160.879	0.35	-0.03	0.35		
11963.00	89.820	161.450	6129.26	6128.80	-5791.04	2006.55	1649756.54	14333073.66	39°28'12.0952"N	80°58'0.8569"W	6128.82	160.889	0.24	-0.06	-0.23		
12058.00	89.880	161.440	6129.51	6223.80	-5881.11	2036.79	1649786.76	14332983.64	39°28'11.2050"N	80°58'0.4718"W	6223.82	160.898	0.06	0.06	-0.01		
12152.00	89.720	161.330	6129.84	6317.79	-5970.19	2066.79	1649816.75	14332894.59	39°28'10.3244"N	80°58'0.0896"W	6317.81	160.905	0.21	-0.17	-0.12		
12247.00	89.750	161.390	6130.28	6412.79	-6060.20	2097.15	1649847.10	14332804.61	39°28'9.4347"N	80°57'59.7029"W	6412.81	160.912	0.07	0.03	0.06		
12341.00	89.880	161.780	6130.58	6506.79	-6149.39	2126.85	1649876.78	14332715.46	39°28'8.5531"N	80°57'59.3247"W	6506.80	160.921	0.44	0.14	0.41		
12436.00	89.780	161.880	6130.86	6601.78	-6239.65	2156.47	1649906.40	14332625.24	39°28'7.6609"N	80°57'58.9473"W	6601.79	160.934	0.15	-0.11	0.11		
12531.00	89.630	161.700	6131.35	6696.77	-6329.89	2186.16	1649936.07	14332535.03	39°28'6.7689"N	80°57'58.5692"W	6696.78	160.947	0.25	-0.16	-0.19		
12626.00	89.820	161.560	6131.81	6791.78	-6420.05	2216.10	1649966.00	14332444.91	39°28'5.8777"N	80°57'58.1879"W	6791.77	160.956	0.25	0.20	-0.15		
12720.00	89.780	161.600	6132.14	6885.76	-6509.23	2245.80	1649995.69	14332355.76	39°28'4.9962"N	80°57'57.8096"W	6885.76	160.965	0.06	-0.04	0.04		
12815.00	90.220	161.830	6132.14	6980.75	-6599.44	2275.61	1650025.48	14332265.60	39°28'4.1045"N	80°57'57.4300"W	6980.76	160.975	0.52	0.46	0.24		
12909.00	89.720	161.290	6132.19	7074.75	-6688.61	2305.34	1650055.20	14332176.46	39°28'3.2231"N	80°57'57.0513"W	7074.75	160.983	0.78	-0.53	-0.57		
13004.00	89.750	161.690	6132.62	7169.74	-6778.69	2335.50	1650085.35	14332086.41	39°28'2.3326"N	80°57'56.6672"W	7169.75	160.989	0.42	0.03	0.42		
13098.00	89.820	161.770	6132.98	7263.73	-6867.96	2364.97	1650114.81	14331997.19	39°28'1.4503"N	80°57'56.2919"W	7263.74	160.999	0.11	0.07	0.09		
13193.00	89.910	161.830	6133.20	7358.73	-6958.20	2394.64	1650144.47	14331906.97	39°28'0.5583"N	80°57'55.9140"W	7358.73	161.009	0.11	0.09	0.06		
13288.00	89.940	162.180	6133.33	7453.71	-7048.55	2423.99	1650173.80	14331816.66	39°27'59.6652"N	80°57'55.5402"W	7453.71	161.022	0.37	0.03	0.37		
13383.00	89.780	161.590	6133.56	7548.70	-7138.85	2453.53	1650203.33	14331726.40	39°27'58.7727"N	80°57'55.1640"W	7548.70	161.033	0.64	-0.17	-0.62		
13477.00	90.120	161.740	6133.64	7642.70	-7228.07	2483.09	1650232.89	14331637.21	39°27'57.8907"N	80°57'54.7874"W	7642.70	161.041	0.40	0.36	0.16		



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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
13572.00	89.750	161.750	6133.75	7737.69	-7318.29	2512.85	1650262.63	14331547.03	39°27'56.9989"N	80°57'54.4084"W	7737.69	161.049	0.39	-0.39	0.01	
13666.00	89.510	161.930	6134.35	7831.68	-7407.61	2542.15	1650291.92	14331457.75	39°27'56.1160"N	80°57'54.0353"W	7831.68	161.059	0.32	-0.26	0.19	
13761.00	89.320	161.510	6135.32	7926.67	-7497.81	2571.95	1650321.70	14331367.58	39°27'55.2244"N	80°57'53.6559"W	7926.67	161.067	0.49	-0.20	-0.44	
13856.00	89.570	161.500	6136.24	8021.66	-7587.90	2602.08	1650351.82	14331277.53	39°27'54.3339"N	80°57'53.2721"W	8021.66	161.072	0.26	0.26	-0.01	
13950.00	89.630	161.460	6136.90	8115.65	-7677.03	2631.94	1650381.67	14331188.44	39°27'53.4529"N	80°57'52.8918"W	8115.65	161.077	0.08	0.06	-0.04	
14045.00	89.720	161.200	6137.44	8210.65	-7767.03	2662.35	1650412.07	14331098.47	39°27'52.5633"N	80°57'52.5046"W	8210.65	161.080	0.29	0.09	-0.27	
14140.00	89.380	160.510	6138.19	8305.65	-7856.77	2693.50	1650443.21	14331008.77	39°27'51.6762"N	80°57'52.1078"W	8305.65	161.077	0.81	-0.36	-0.73	
14234.00	89.630	160.020	6139.00	8399.63	-7945.24	2725.24	1650474.94	14330920.33	39°27'50.8016"N	80°57'51.7035"W	8399.63	161.068	0.59	0.27	-0.52	
14329.00	89.540	160.100	6139.69	8494.62	-8034.55	2757.64	1650507.32	14330831.06	39°27'49.9189"N	80°57'51.2909"W	8494.62	161.057	0.13	-0.09	0.08	
14424.00	89.380	160.170	6140.58	8589.60	-8123.89	2789.92	1650539.59	14330741.76	39°27'49.0358"N	80°57'50.8798"W	8589.60	161.046	0.18	-0.17	0.07	
14518.00	88.890	159.440	6142.00	8683.57	-8212.10	2822.37	1650572.02	14330653.58	39°27'48.1638"N	80°57'50.4665"W	8683.57	161.033	0.94	-0.52	-0.78	
14613.00	89.350	160.360	6143.46	8778.54	-8301.30	2855.01	1650604.65	14330564.41	39°27'47.2821"N	80°57'50.0508"W	8778.54	161.021	1.08	0.48	0.97	
14708.00	89.140	159.710	6144.71	8873.51	-8390.58	2887.44	1650637.07	14330475.17	39°27'46.3995"N	80°57'49.6377"W	8873.51	161.010	0.72	-0.22	-0.68	
14803.00	89.260	160.660	6146.04	8968.49	-8479.95	2919.64	1650669.26	14330385.84	39°27'45.5161"N	80°57'49.2276"W	8968.49	161.001	1.01	0.13	1.00	
14897.00	89.540	159.880	6147.02	9062.48	-8568.43	2951.38	1650700.98	14330297.40	39°27'44.6416"N	80°57'48.8235"W	9062.48	160.994	0.88	0.30	-0.83	
14992.00	89.080	159.780	6148.17	9157.45	-8657.59	2984.13	1650733.72	14330208.27	39°27'43.7602"N	80°57'48.4063"W	9157.45	160.982	0.50	-0.48	-0.11	
15087.00	89.320	160.110	6149.49	9252.42	-8746.82	3016.70	1650766.28	14330119.07	39°27'42.8781"N	80°57'47.9915"W	9252.43	160.971	0.43	0.25	0.35	
15182.00	89.110	159.690	6150.79	9347.39	-8836.03	3049.35	1650798.91	14330029.90	39°27'41.9963"N	80°57'47.5757"W	9347.40	160.960	0.49	-0.22	-0.44	
15276.00	89.140	159.620	6152.23	9441.35	-8924.16	3082.03	1650831.58	14329941.81	39°27'41.1252"N	80°57'47.1596"W	9441.37	160.947	0.08	0.03	-0.07	
15371.00	89.230	159.660	6153.58	9536.31	-9013.21	3115.07	1650864.61	14329852.79	39°27'40.2449"N	80°57'46.7387"W	9536.33	160.934	0.10	0.09	0.04	
15466.00	89.600	160.030	6154.55	9631.29	-9102.39	3147.81	1650897.33	14329763.65	39°27'39.3634"N	80°57'46.3218"W	9631.31	160.923	0.55	0.39	0.39	
15561.00	89.910	159.990	6154.96	9726.27	-9191.66	3180.28	1650929.79	14329674.41	39°27'38.4809"N	80°57'45.9082"W	9726.30	160.915	0.33	0.33	-0.04	
15655.00	89.880	160.120	6155.13	9820.26	-9280.03	3212.35	1650961.85	14329586.08	39°27'37.6075"N	80°57'45.4999"W	9820.29	160.906	0.14	-0.03	0.14	
15750.00	89.750	160.000	6155.44	9915.24	-9369.33	3244.75	1650994.23	14329496.82	39°27'36.7247"N	80°57'45.0873"W	9915.28	160.898	0.19	-0.14	-0.13	
15845.00	89.970	159.910	6155.67	10010.22	-9458.58	3277.31	1651026.78	14329407.61	39°27'35.8425"N	80°57'44.6726"W	10010.26	160.889	0.25	0.23	-0.09	
15939.00	90.180	159.720	6155.55	10104.20	-9546.80	3309.74	1651059.20	14329319.42	39°27'34.9704"N	80°57'44.2596"W	10104.25	160.879	0.30	0.22	-0.20	
16034.00	90.060	159.670	6155.35	10199.18	-9635.90	3342.71	1651092.16	14329230.35	39°27'34.0897"N	80°57'43.8398"W	10199.23	160.868	0.14	-0.13	-0.05	
16128.00	90.120	159.710	6155.20	10293.15	-9724.05	3375.34	1651124.77	14329142.23	39°27'33.2183"N	80°57'43.4243"W	10293.21	160.857	0.08	0.06	0.04	
16223.00	89.910	159.250	6155.17	10388.11	-9813.03	3408.64	1651158.06	14329053.30	39°27'32.3388"N	80°57'43.0002"W	10388.18	160.845	0.53	-0.22	-0.48	
16318.00	90.250	159.210	6155.04	10483.07	-9901.85	3442.33	1651191.73	14328964.51	39°27'31.4608"N	80°57'42.5711"W	10483.14	160.830	0.36	0.36	-0.04	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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]	
16413.00	90.030	159.390	6154.81	10578.02	-9990.72	3475.91	1651225.30	14328875.68	39°27'30.5823"N	80°57'42.1435"W	10578.11	160.817	0.30	-0.23	0.19	
16507.00	90.000	159.180	6154.78	10671.98	-10078.64	3509.16	1651258.53	14328787.79	39°27'29.7132"N	80°57'41.7201"W	10672.08	160.803	0.23	-0.03	-0.22	
16602.00	90.000	159.690	6154.78	10766.94	-10167.59	3542.53	1651291.89	14328698.88	39°27'28.8340"N	80°57'41.2951"W	10767.05	160.791	0.54	0.00	0.54	
16697.00	89.970	159.190	6154.81	10861.90	-10256.54	3575.89	1651325.24	14328609.97	39°27'27.9547"N	80°57'40.8703"W	10862.02	160.779	0.53	-0.03	-0.53	
16791.00	90.250	161.850	6154.63	10955.89	-10345.15	3607.23	1651356.57	14328521.39	39°27'27.0788"N	80°57'40.4711"W	10956.01	160.777	2.85	0.30	2.83	
16886.00	90.370	162.170	6154.11	11050.87	-10435.50	3636.57	1651385.90	14328431.07	39°27'26.1856"N	80°57'40.0976"W	11050.99	160.788	0.36	0.13	0.34	
16981.00	90.460	162.030	6153.43	11145.85	-10525.90	3665.77	1651415.09	14328340.71	39°27'25.2921"N	80°57'39.7258"W	11145.96	160.799	0.18	0.09	-0.15	
17076.00	89.940	161.320	6153.09	11240.85	-10616.08	3695.64	1651444.94	14328250.57	39°27'24.4006"N	80°57'39.3455"W	11240.95	160.806	0.93	-0.55	-0.75	
17171.00	90.280	162.230	6152.91	11335.84	-10706.31	3725.35	1651474.64	14328160.37	39°27'23.5087"N	80°57'38.9673"W	11335.93	160.814	1.02	0.36	0.96	
17265.00	90.280	161.740	6152.45	11429.82	-10795.70	3754.42	1651503.70	14328071.01	39°27'22.6251"N	80°57'38.5971"W	11429.91	160.824	0.52	0.00	-0.52	
17360.00	90.150	162.130	6152.10	11524.81	-10886.02	3783.88	1651533.15	14327980.73	39°27'21.7323"N	80°57'38.2221"W	11524.89	160.833	0.43	-0.14	0.41	
17455.00	90.150	161.960	6151.85	11619.80	-10976.39	3813.16	1651562.42	14327890.40	39°27'20.8390"N	80°57'37.8492"W	11619.87	160.843	0.18	0.00	-0.18	
17550.00	90.460	161.960	6151.34	11714.78	-11066.72	3842.58	1651591.83	14327800.11	39°27'19.9461"N	80°57'37.4747"W	11714.85	160.852	0.33	0.33	0.00	
17644.00	90.550	161.990	6150.51	11808.77	-11156.11	3871.67	1651620.90	14327710.76	39°27'19.0626"N	80°57'37.1044"W	11808.83	160.861	0.10	0.10	0.03	
17739.00	90.680	161.860	6149.49	11903.75	-11246.41	3901.14	1651650.36	14327620.49	39°27'18.1699"N	80°57'36.7292"W	11903.81	160.869	0.19	0.14	-0.14	
17834.00	90.460	161.350	6148.55	11998.74	-11336.55	3931.12	1651680.33	14327530.38	39°27'17.2789"N	80°57'36.3475"W	11998.80	160.875	0.58	-0.23	-0.54	
17928.00	90.520	162.060	6147.75	12092.73	-11425.80	3960.63	1651709.82	14327441.17	39°27'16.3967"N	80°57'35.9718"W	12092.78	160.882	0.76	0.06	0.76	
18023.00	90.220	161.350	6147.13	12187.72	-11515.99	3990.45	1651739.63	14327351.02	39°27'15.5051"N	80°57'35.5922"W	12187.77	160.888	0.81	-0.32	-0.75	
18118.00	90.430	161.290	6146.59	12282.72	-11605.99	4020.87	1651770.05	14327261.06	39°27'14.6156"N	80°57'35.2048"W	12282.77	160.891	0.23	0.22	-0.06	
18213.00	90.400	161.260	6145.90	12377.72	-11695.96	4051.37	1651800.53	14327171.12	39°27'13.7262"N	80°57'34.8165"W	12377.76	160.894	0.04	-0.03	-0.03	
18307.00	90.430	161.140	6145.22	12471.71	-11784.94	4081.66	1651830.81	14327082.18	39°27'12.8466"N	80°57'34.4309"W	12471.76	160.897	0.13	0.03	-0.13	
18402.00	90.520	161.270	6144.44	12566.71	-11874.87	4112.27	1651861.41	14326992.28	39°27'11.9577"N	80°57'34.0412"W	12566.75	160.899	0.17	0.09	0.14	
18497.00	90.430	161.720	6143.65	12661.70	-11964.96	4142.42	1651891.54	14326902.23	39°27'11.0672"N	80°57'33.6574"W	12661.75	160.904	0.48	-0.09	0.47	
18591.00	90.650	162.000	6142.76	12755.69	-12054.28	4171.68	1651920.80	14326812.95	39°27'10.1842"N	80°57'33.2848"W	12755.73	160.911	0.38	0.23	0.30	
18686.00	90.620	162.110	6141.71	12850.67	-12144.65	4200.95	1651950.05	14326722.61	39°27'9.2909"N	80°57'32.9122"W	12850.70	160.919	0.12	-0.03	0.12	
18781.00	90.220	161.800	6141.01	12945.65	-12234.98	4230.38	1651979.47	14326632.32	39°27'8.3980"N	80°57'32.5376"W	12945.68	160.927	0.53	-0.42	-0.33	
18875.00	90.650	161.910	6140.30	13039.64	-12324.30	4259.65	1652008.73	14326543.03	39°27'7.5151"N	80°57'32.1650"W	13039.67	160.933	0.47	0.46	0.12	
18970.00	90.620	162.000	6139.25	13134.63	-12414.62	4289.08	1652038.14	14326452.75	39°27'6.6223"N	80°57'31.7904"W	13134.65	160.941	0.10	-0.03	0.09	
19065.00	90.740	161.910	6138.12	13229.61	-12504.94	4318.50	1652067.56	14326362.46	39°27'5.7295"N	80°57'31.4158"W	13229.63	160.948	0.16	0.13	-0.09	
19159.00	90.800	162.210	6136.86	13323.58	-12594.36	4347.45	1652096.50	14326273.08	39°27'4.8455"N	80°57'31.0472"W	13323.60	160.956	0.33	0.06	0.32	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

WELLPATH DATA (213 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]	
19254.00	90.430	161.660	6135.84	13418.57	-12684.68	4376.91	1652125.94	14326182.80	39°27'3.9528"N	80°57'30.6722"W	13418.58	160.963	0.70	-0.39	-0.58	
19278.00	90.650	161.700	6135.61	13442.56	-12707.46	4384.45	1652133.48	14326160.03	39°27'3.7276"N	80°57'30.5762"W	13442.58	160.964	0.93	0.92	0.17	
19303.00‡	90.650	161.700	6135.33	13467.56	-12731.19	4392.30	1652141.33	14326136.31	39°27'3.4930"N	80°57'30.4763"W	13467.57	160.965	0.00	0.00	0.00	Projected MD at TD: 19303'

HOLE & CASING SECTIONS - Ref Wellbore: Roy Unit 2H AWB Ref Wellpath: Roy Unit 2H AWP Proj: 19303'									
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	130.00	100.00	30.00	130.00	0.00	0.00	0.21	0.09
17.5in Open Hole	130.00	408.00	278.00	130.00	408.00	0.21	0.09	0.18	-0.82
13.375in Casing Surface	30.00	388.00	358.00	30.00	388.00	0.00	0.00	0.20	-0.64
12.25in Open Hole	408.00	2620.00	2212.00	408.00	2619.89	0.18	-0.82	-4.41	-18.92
9.625in Casing Intermediate	30.00	2600.00	2570.00	30.00	2599.89	0.00	0.00	-4.29	-18.91
8.75in Open Hole	2620.00	5971.00	3351.00	2619.89	5890.10	-4.41	-18.92	-163.98	84.86
8.5in Open Hole	5971.00	19303.00	13332.00	5890.10	6135.33	-163.98	84.86	-12731.19	4392.30
5.5in Casing Production	30.00	19303.00	19273.00	30.00	6135.33	0.00	0.00	-12731.19	4392.30



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Roy Unit 2H POE Rev-2	6041.00	-399.05	164.39	1647915.11	14338463.49	39°29'5.3924"N	80°58'24.3266"W	point
Roy Unit 2H BHL Rev-2	6083.00	-12729.89	4398.89	1652147.91	14326137.61	39°27'3.5059"N	80°57'30.3923"W	point
Roy Unit 2H LP Rev-2	6083.00	-627.61	242.87	1647993.56	14338235.02	39°29'3.1333"N	80°58'23.3264"W	point
Roy Unit 2H 50' L/R Hard Line Rev-2	6500.00	-6564.47	2281.64	1650031.51	14332300.55	39°28'4.4501"N	80°57'57.3529"W	rectangle
2D Rectangle 13037.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Roy Unit 2H AWB Ref Wellpath: Roy Unit 2H AWP Proj: 19303'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
30.00	320.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-320')	Roy Unit 2H AWB	10/May/2021	
320.00	2542.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (320')(507'-2542')	Roy Unit 2H AWB	10/May/2021	
2542.00	5903.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2542')(2658'-5903')	Roy Unit 2H AWB	30/May/2021	
5903.00	19303.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (5903')(5946'-19278')	Roy Unit 2H AWB	30/May/2021	



Actual Wellpath Report

Roy Unit 2H AWP Proj: 19303'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Roy Unit 2H
Field	Tyler	API	47-095-02735-0000
Facility	Roma Lou Pad	Wellbore	Roy Unit 2H AWB
Slot	Slot #04		

COMMENTS
<p>Wellpath general comments API: 47-095-02735-0000 BH Job #: 110887494 Rig: H&P 519 Duration: 6/2/2021-6/6/2021 Gyrodata MS Gyro <17-1/2"> (100'-320') APS EM <12-1/4"> (320')(507'-2542') APS EM <8-3/4"> (2542')(2658'-5903') BH AT Curve <8-1/2"> (5903')(5946'-19278') Sycamore: 5898' MD Middlesex: 6052' MD Burkett: 6233' MD Marcellus POE: 6307' MD Projected MD at TD: 19303'</p>