



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
Field: Tyler
Facility: Sine Pad

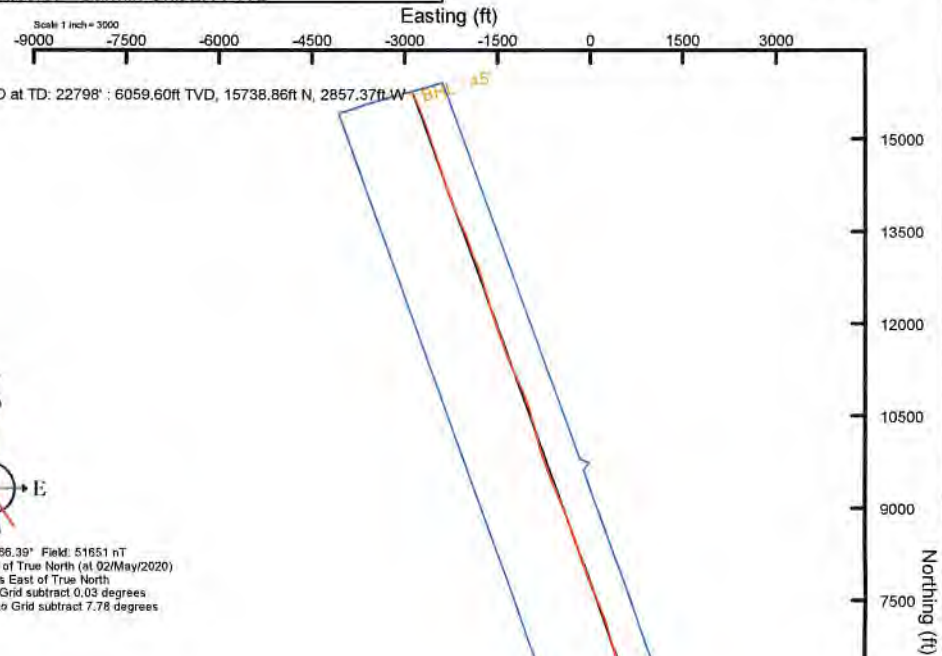
Slot: Slot #06
Well: Garmin Unit 2H
Wellbore: Garmin Unit 2H PWB

Plot reference wellpath is Garmin Unit 2H 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-Volume
H&P 519 (RKB) to Mean Sea Level: 829 feet	Coordinates are in feet referenced to SH
Mean Sea Level to Ground level (At Slot: Slot #06): -799 feet	Depths are in feet
Official wellpath MDs are referenced to each path's default MD datum	Created by: edstayer on 2020-05-29; Database: WA_MPL_EASTERNUS_Deln

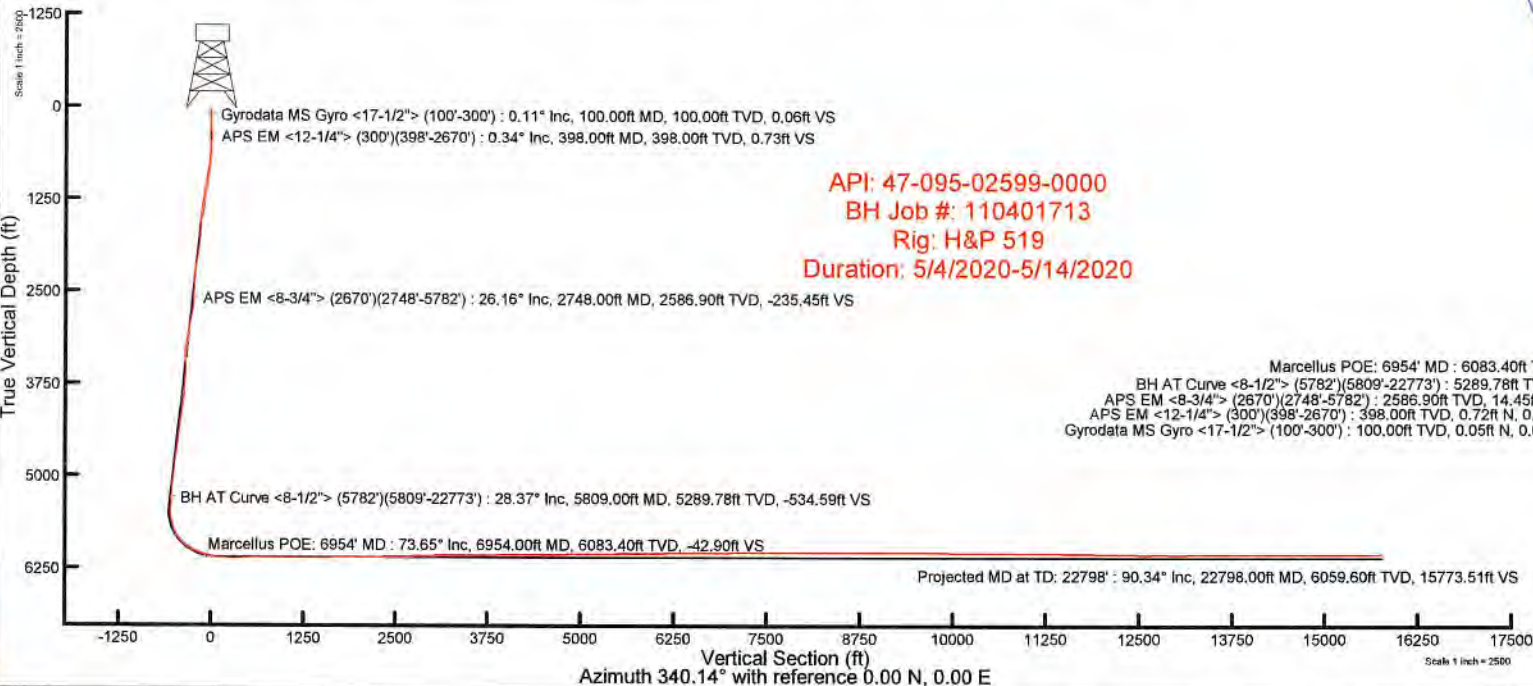
Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Sine Pad	1652653.868	14313061.080	39°24'54.2100"N	80°57'24.0200"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #06	27.25	-146.78	1652507.147	14313088.317	39°24'54.4800"N
Comment	Garmin Unit 2H				
H&P 519 (RKB) to Ground level (At Slot: Slot #06)	30ft				
Mean Sea Level to Ground level (At Slot: Slot #06)	-799ft				
H&P 519 (RKB) to Mean Sea Level	829ft				

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (*/100ft)	VS (ft)
Tie On	30.00	0.000	120.000	30.00	0.00	0.00	0.00	0.00
KOP 1	490.00	0.000	120.000	490.00	0.00	0.00	0.00	0.00
Hold	890.00	12.000	120.000	887.08	-20.87	38.14	3.00	-31.81
KOP 2	1215.00	12.000	120.000	1204.98	-54.65	94.66	0.00	-83.56
Hold Tangent	1882.15	28.155	81.898	1831.76	-67.28	312.78	3.00	-169.53
Curve KOP	5977.26	28.155	81.898	5442.30	205.06	2225.83	0.00	-563.30
POE	6883.84	71.756	355.000	6070.00	737.08	2427.78	5.00	-131.53
Landing Pt.	7111.88	90.000	355.000	6106.00	960.43	2408.24	8.00	85.18
On Azimuth	7607.08	90.000	340.144	6106.00	1442.68	2301.96	3.00	574.85
BHL	22802.08	90.000	340.144	6106.00	15734.30	-2859.19	0.00	15769.85

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Garmin Unit 2H	Garmin Unit 2H AWB	Garmin Unit 2H AWP Proj: 22798
Slot #06	Garmin Unit 2H	Garmin Unit 2H PWB	Garmin Unit 2H PWP Rev-A-0



User specified (HDGM) Dip: 66.39° Field: 51651 nT
 Magnetic North is 7.75 degrees West of True North (at 02/May/2020)
 Grid North is 0.03 degrees East of True North
 To correct azimuth from True to Grid subtract 0.03 degrees
 To correct azimuth from Magnetic to Grid subtract 7.78 degrees



API: 47-095-02599-0000
 BH Job #: 110401713
 Rig: H&P 519
 Duration: 5/4/2020-5/14/2020

Marcellus POE: 6954' MD : 6083.40ft TVD, 826.82ft N, 2415.34ft E
 BH AT Curve <8-1/2"> (5782')(5809'-22773') : 5289.78ft TVD, 207.32ft N, 2147.57ft E
 APS EM <8-3/4"> (2670')(2748'-5782') : 2586.90ft TVD, 14.45ft N, 733.07ft E
 APS EM <12-1/4"> (300')(398'-2670') : 398.00ft TVD, 0.72ft N, 0.15ft W
 Gyrodatta MS Gyro <17-1/2"> (100'-300') : 100.00ft TVD, 0.05ft N, 0.04ft W Slot #06

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'

Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Garmin Unit 2H
Field	Tyler	API	47-095-02599-0000
Facility	Sine Pad	Wellbore	Garmin Unit 2H AWB
Slot	Slot #06		

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	29/May/2020 at 13:59
Convergence at slot	0.03° 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	27.25	-146.78	1652507.15	14313088.32	39°24'54.4800"N	80°57'25.8900"W
Facility Reference Pt			1652653.87	14313061.08	39°24'54.2100"N	80°57'24.0200"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	30.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	829.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #06)	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	340.14°

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Page 2 of 12



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Field	Tyler		API	47-095-02599-0000
Facility	Sine Pad		Wellbore	Garmin Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (252 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]	
0.00	0.000	318.630	0.00	0.00	0.00	0.00	1652507.15	14313088.32	39°24'54.4800"N	80°57'25.8900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	318.630	30.00	0.00	0.00	0.00	1652507.15	14313088.32	39°24'54.4800"N	80°57'25.8900"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.110	318.630	100.00	0.06	0.05	-0.04	1652507.10	14313088.37	39°24'54.4805"N	80°57'25.8906"W	0.07	318.630	0.16	0.16	0.00	Gyrodata MS Gyro <17-1/2"> (100'-300')
200.00	0.240	23.800	200.00	0.30	0.31	-0.02	1652507.12	14313088.63	39°24'54.4831"N	80°57'25.8903"W	0.31	355.751	0.22	0.13	65.17	
300.00	0.170	14.460	300.00	0.58	0.65	0.10	1652507.25	14313088.97	39°24'54.4864"N	80°57'25.8887"W	0.66	8.602	0.08	-0.07	-9.34	
398.00	0.340	256.030	398.00	0.73	0.72	-0.15	1652507.00	14313089.04	39°24'54.4871"N	80°57'25.8919"W	0.73	348.411	0.46	0.17	-120.85	APS EM <12-1/4"> (300')(398'-2670')
414.00	0.390	265.900	414.00	0.75	0.70	-0.25	1652506.90	14313089.02	39°24'54.4870"N	80°57'25.8932"W	0.75	340.608	0.50	0.31	61.69	
505.00	0.990	143.490	504.99	0.08	0.05	-0.09	1652507.06	14313088.37	39°24'54.4805"N	80°57'25.8911"W	0.10	299.550	1.37	0.66	-134.52	
596.00	3.470	124.420	595.92	-2.91	-2.14	2.65	1652509.80	14313086.18	39°24'54.4589"N	80°57'25.8562"W	3.41	128.893	2.81	2.73	-20.96	
687.00	6.590	120.460	686.56	-9.17	-6.34	9.43	1652516.57	14313081.98	39°24'54.4173"N	80°57'25.7699"W	11.36	123.940	3.45	3.43	-4.35	
778.00	9.970	116.450	776.60	-18.89	-12.50	20.98	1652528.12	14313075.82	39°24'54.3563"N	80°57'25.6227"W	24.42	120.785	3.77	3.71	-4.41	
869.00	12.560	115.290	865.84	-31.60	-20.24	36.98	1652544.12	14313068.09	39°24'54.2798"N	80°57'25.4189"W	42.16	118.687	2.86	2.85	-1.27	
959.00	13.680	115.150	953.48	-46.06	-28.94	55.47	1652562.59	14313059.39	39°24'54.1937"N	80°57'25.1835"W	62.56	117.555	1.24	1.24	-0.16	
1049.00	12.470	114.220	1041.15	-60.35	-37.45	73.96	1652581.08	14313050.88	39°24'54.1095"N	80°57'24.9479"W	82.90	116.856	1.36	-1.34	-1.03	
1144.00	11.400	121.600	1134.10	-74.83	-46.58	91.31	1652598.42	14313041.76	39°24'54.0192"N	80°57'24.7268"W	102.51	117.026	1.96	-1.13	7.77	
1238.00	12.780	118.530	1226.01	-89.87	-56.41	108.36	1652615.47	14313031.93	39°24'53.9219"N	80°57'24.5097"W	122.17	117.501	1.62	1.47	-3.27	
1333.00	15.350	107.880	1318.17	-105.43	-65.30	129.57	1652636.66	14313023.05	39°24'53.8340"N	80°57'24.2395"W	145.09	116.746	3.83	2.71	-11.21	
1427.00	16.220	99.010	1408.64	-119.38	-71.17	154.38	1652661.46	14313017.17	39°24'53.7758"N	80°57'23.9235"W	169.99	114.751	2.73	0.93	-9.44	
1522.00	16.610	87.370	1499.79	-129.82	-72.63	181.05	1652688.13	14313015.72	39°24'53.7613"N	80°57'23.5836"W	195.08	111.858	3.48	0.41	-12.25	
1616.00	18.290	77.100	1589.49	-135.58	-68.72	208.86	1652715.92	14313019.63	39°24'53.7999"N	80°57'23.2293"W	219.87	108.212	3.73	1.79	-10.93	
1710.00	22.260	77.730	1677.64	-139.73	-61.64	240.65	1652747.70	14313026.70	39°24'53.8697"N	80°57'22.8242"W	248.42	104.366	4.23	4.22	0.67	
1804.00	26.410	81.370	1763.28	-146.15	-54.71	278.73	1652785.77	14313033.63	39°24'53.9379"N	80°57'22.3389"W	284.05	101.106	4.69	4.41	3.87	
1899.00	29.160	84.740	1847.32	-156.10	-49.42	322.68	1652829.70	14313038.92	39°24'53.9900"N	80°57'21.7790"W	326.44	98.707	3.33	2.89	3.55	
1993.00	30.580	86.110	1928.84	-168.45	-45.70	369.34	1652876.34	14313042.64	39°24'54.0266"N	80°57'21.1844"W	372.16	97.053	1.68	1.51	1.46	
2088.00	30.380	86.210	2010.71	-181.75	-42.47	417.42	1652924.40	14313045.86	39°24'54.0582"N	80°57'20.5718"W	419.58	95.810	0.22	-0.21	0.11	
2182.00	30.260	84.840	2091.85	-194.34	-38.77	464.73	1652971.69	14313049.56	39°24'54.0946"N	80°57'19.9690"W	466.34	94.769	0.75	-0.13	-1.46	
2277.00	31.340	82.600	2173.45	-205.75	-33.43	513.07	1653020.01	14313054.90	39°24'54.1471"N	80°57'19.3530"W	514.16	93.728	1.66	1.14	-2.36	
2371.00	29.790	79.680	2254.39	-214.89	-26.10	560.29	1653067.21	14313062.23	39°24'54.2193"N	80°57'18.7513"W	560.90	92.667	2.28	-1.65	-3.11	
2466.00	29.240	77.060	2337.07	-221.60	-16.68	606.12	1653113.03	14313071.65	39°24'54.3122"N	80°57'18.1673"W	606.35	91.576	1.48	-0.58	-2.76	
2560.00	27.770	77.060	2419.67	-227.01	-6.63	649.84	1653156.73	14313081.69	39°24'54.4113"N	80°57'17.6102"W	649.88	90.585	1.56	-1.56	0.00	



Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'
Page 3 of 12



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Garmin Unit 2H
Field	Tyler		API	47-095-02599-0000
Facility	Sine Pad		Wellbore	Garmin Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (252 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
2655.00	27.490	76.370	2503.84	-232.05	3.49	692.72	1653199.59	14313091.81	39°24'54.5112"N	80°57'17.0638"W	692.73	89.711	0.45	-0.29	-0.73	
2670.00	27.080	75.760	2517.17	-232.76	5.15	699.40	1653206.26	14313093.46	39°24'54.5275"N	80°57'16.9788"W	699.41	89.578	3.31	-2.73	-4.07	
2748.00	26.160	73.300	2586.90	-235.45	14.45	733.07	1653239.93	14313102.77	39°24'54.6193"N	80°57'16.5496"W	733.22	88.870	1.84	-1.18	-3.15	APS EM <8-3/4"> (2670')(2748'-5782')
2843.00	26.140	77.220	2672.18	-239.18	25.10	773.54	1653280.38	14313113.41	39°24'54.7244"N	80°57'16.0339"W	773.95	88.141	1.82	-0.02	4.13	
2937.00	27.730	86.040	2756.02	-247.73	31.20	815.58	1653322.39	14313119.50	39°24'54.7844"N	80°57'15.4983"W	816.17	87.809	4.57	1.69	9.38	
3034.00	28.730	94.090	2841.51	-263.38	31.09	861.36	1653368.16	14313119.40	39°24'54.7831"N	80°57'14.9150"W	861.92	87.933	4.06	1.03	8.30	
3128.00	27.110	93.220	2924.57	-280.95	28.28	905.28	1653412.07	14313116.58	39°24'54.7551"N	80°57'14.3554"W	905.72	88.211	1.78	-1.72	-0.93	
3223.00	24.810	89.390	3009.98	-296.01	27.27	946.83	1653453.60	14313115.58	39°24'54.7449"N	80°57'13.8260"W	947.23	88.350	2.99	-2.42	-4.03	
3317.00	25.060	88.530	3095.22	-308.79	27.99	986.45	1653493.21	14313116.30	39°24'54.7519"N	80°57'13.3211"W	986.85	88.374	0.47	0.27	-0.91	
3411.00	27.220	87.000	3179.60	-321.31	29.63	1027.83	1653534.56	14313117.93	39°24'54.7678"N	80°57'12.7940"W	1028.26	88.349	2.41	2.30	-1.63	
3506.00	29.910	85.240	3263.03	-333.78	32.73	1073.14	1653579.86	14313121.04	39°24'54.7983"N	80°57'12.2166"W	1073.64	88.253	2.97	2.83	-1.85	
3600.00	28.530	79.160	3345.09	-343.41	38.90	1118.55	1653625.25	14313127.20	39°24'54.8590"N	80°57'11.6379"W	1119.23	88.008	3.48	-1.47	-6.47	
3695.00	25.410	69.790	3429.78	-346.85	50.22	1159.99	1653666.67	14313138.51	39°24'54.9706"N	80°57'11.1099"W	1161.08	87.521	5.54	-3.28	-9.86	
3790.00	25.130	67.320	3515.70	-345.73	65.04	1197.73	1653704.40	14313153.33	39°24'55.1169"N	80°57'10.6289"W	1199.50	86.892	1.15	-0.29	-2.60	
3884.00	27.400	72.930	3600.00	-345.80	79.09	1236.84	1653743.49	14313167.37	39°24'55.2555"N	80°57'10.1306"W	1239.36	86.341	3.58	2.41	5.97	
3979.00	29.950	78.580	3683.36	-350.35	90.20	1280.99	1653787.63	14313178.48	39°24'55.3652"N	80°57'9.5679"W	1284.17	85.972	3.92	2.68	5.95	
4073.00	29.550	76.700	3764.97	-356.44	100.18	1326.55	1653833.17	14313188.46	39°24'55.4636"N	80°57'8.9874"W	1330.33	85.681	1.08	-0.43	-2.00	
4167.00	27.750	75.380	3847.46	-361.09	111.04	1370.29	1653876.89	14313199.31	39°24'55.5707"N	80°57'8.4300"W	1374.78	85.367	2.03	-1.91	-1.40	
4262.00	27.600	78.020	3931.59	-366.12	121.19	1413.22	1653919.80	14313209.46	39°24'55.6708"N	80°57'7.8830"W	1418.41	85.099	1.30	-0.16	2.78	
4356.00	28.790	82.650	4014.45	-374.01	128.60	1456.98	1653963.54	14313216.87	39°24'55.7438"N	80°57'7.3254"W	1462.64	84.956	2.65	1.27	4.93	
4451.00	28.730	88.330	4097.74	-386.10	132.20	1502.50	1654009.04	14313220.46	39°24'55.7791"N	80°57'6.7454"W	1508.30	84.972	2.88	-0.06	5.98	
4548.00	29.610	87.850	4182.44	-400.66	133.78	1549.75	1654056.27	14313222.04	39°24'55.7944"N	80°57'6.1434"W	1555.51	85.066	0.94	0.91	-0.49	
4643.00	28.660	82.660	4265.43	-412.75	137.57	1595.80	1654102.31	14313225.83	39°24'55.8317"N	80°57'5.5565"W	1601.72	85.073	2.84	-1.00	-5.46	
4737.00	27.630	81.790	4348.32	-422.03	143.56	1639.73	1654146.22	14313231.82	39°24'55.8907"N	80°57'4.9967"W	1646.01	84.996	1.18	-1.10	-0.93	
4832.00	28.170	85.110	4432.28	-432.27	148.62	1683.88	1654190.35	14313236.88	39°24'55.9404"N	80°57'4.4342"W	1690.43	84.956	1.73	0.57	3.49	
4926.00	28.900	84.120	4514.86	-443.49	152.84	1728.59	1654235.04	14313241.09	39°24'55.9819"N	80°57'3.8646"W	1735.33	84.947	0.93	0.78	-1.05	
5023.00	27.810	82.920	4600.22	-454.16	158.03	1774.36	1654280.79	14313246.28	39°24'56.0329"N	80°57'3.2813"W	1781.38	84.911	1.27	-1.12	-1.24	
5118.00	28.070	84.800	4684.15	-464.72	162.78	1818.61	1654325.03	14313251.04	39°24'56.0797"N	80°57'2.7175"W	1825.88	84.885	0.97	0.27	1.98	
5213.00	29.250	87.510	4767.51	-477.31	165.82	1864.06	1654370.46	14313254.07	39°24'56.1095"N	80°57'2.1383"W	1871.42	84.917	1.85	1.24	2.85	
5308.00	27.830	80.700	4850.99	-488.30	170.41	1909.15	1654415.53	14313258.66	39°24'56.1546"N	80°57'1.5639"W	1916.74	84.899	3.73	-1.49	-7.17	

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Page 4 of 12



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Facility	Sine Pad		Wellbore	Garmin Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (252 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)	
5403.00	27.050	81.480	4935.30	-496.62	177.20	1952.39	1654458.76	14313265.44	39°24'56.2214"N	80°57'1.0128"W	1960.42	84.814	0.90	-0.82	0.82	
5498.00	29.710	84.840	5018.88	-506.84	182.51	1997.21	1654503.56	14313270.76	39°24'56.2737"N	80°57'0.4417"W	2005.54	84.779	3.26	2.80	3.54	
5593.00	30.810	84.650	5100.94	-518.91	186.90	2044.89	1654551.21	14313275.14	39°24'56.3168"N	80°56'59.8343"W	2053.41	84.778	1.16	1.16	-0.20	
5688.00	28.730	77.860	5183.42	-528.08	193.97	2091.45	1654597.76	14313282.21	39°24'56.3865"N	80°56'59.2409"W	2100.42	84.701	4.17	-2.19	-7.15	
5782.00	28.300	75.700	5266.02	-533.27	204.23	2135.13	1654641.42	14313292.46	39°24'56.4876"N	80°56'58.6843"W	2144.87	84.536	1.19	-0.46	-2.30	
5809.00	28.370	76.380	5289.78	-534.59	207.32	2147.57	1654653.85	14313295.55	39°24'56.5181"N	80°56'58.5258"W	2157.55	84.486	1.22	0.26	2.52	BH AT Curve <8-1/2"> (5782')(5809'-22773')
5909.00	28.320	74.020	5377.80	-538.78	219.45	2193.46	1654699.73	14313307.67	39°24'56.6377"N	80°56'57.9410"W	2204.41	84.287	1.12	-0.05	-2.36	
6003.00	28.030	76.730	5460.66	-542.82	230.65	2236.39	1654742.64	14313318.88	39°24'56.7482"N	80°56'57.3939"W	2248.26	84.112	1.40	-0.31	2.88	
6098.00	26.860	56.480	5545.15	-540.31	247.67	2276.10	1654782.33	14313335.88	39°24'56.9161"N	80°56'56.8878"W	2289.53	83.790	9.86	-1.23	-21.32	
6192.00	28.970	47.450	5628.25	-526.50	274.80	2310.59	1654816.81	14313363.01	39°24'57.1841"N	80°56'56.4481"W	2326.88	83.218	5.02	2.24	-9.61	
6287.00	33.340	40.670	5709.55	-504.77	310.19	2344.58	1654850.79	14313398.38	39°24'57.5337"N	80°56'56.0148"W	2365.01	82.463	5.89	4.60	-7.14	
6381.00	38.750	27.180	5785.65	-471.93	356.06	2374.93	1654881.12	14313444.23	39°24'57.9869"N	80°56'55.6279"W	2401.47	81.473	10.19	5.76	-14.35	
6476.00	43.100	12.020	5857.59	-423.97	414.43	2395.33	1654901.51	14313502.58	39°24'58.5636"N	80°56'55.3675"W	2430.91	80.184	11.38	4.58	-15.96	
6570.00	50.640	5.140	5921.85	-363.64	482.17	2405.29	1654911.47	14313570.29	39°24'59.2331"N	80°56'55.2401"W	2453.14	78.665	9.63	8.02	-7.32	
6640.00†	56.800	4.754	5963.25	-312.44	538.36	2410.15	1654916.33	14313626.46	39°24'59.7885"N	80°56'55.1778"W	2469.54	77.408	8.81	8.80	-0.55	Middlesex: 6640' MD
6665.00	59.000	4.630	5976.53	-293.18	559.47	2411.88	1654918.06	14313647.56	39°24'59.9971"N	80°56'55.1556"W	2475.92	76.940	8.81	8.80	-0.50	
6759.00	66.620	3.370	6019.46	-216.76	642.81	2417.68	1654923.85	14313730.87	39°25'0.8208"N	80°56'55.0811"W	2501.67	75.111	8.19	8.11	-1.34	
6806.00	70.100	1.270	6036.79	-176.31	686.46	2419.43	1654925.61	14313774.50	39°25'1.2521"N	80°56'55.0584"W	2514.93	74.160	8.49	7.40	-4.47	
6849.00†	70.841	358.411	6051.16	-138.16	726.98	2419.32	1654925.49	14313815.00	39°25'1.6526"N	80°56'55.0595"W	2526.18	73.275	6.50	1.72	-6.65	Burkett: 6849' MD
6854.00	70.930	358.080	6052.80	-133.67	731.70	2419.17	1654925.35	14313819.72	39°25'1.6993"N	80°56'55.0613"W	2527.41	73.172	6.50	1.78	-6.62	
6916.00†	72.476	357.601	6072.27	-77.59	790.52	2416.96	1654923.13	14313878.52	39°25'2.2807"N	80°56'55.0892"W	2542.95	71.888	2.60	2.49	-0.77	Tully: 6916' MD
6949.00	73.300	357.350	6081.98	-47.48	822.03	2415.57	1654921.74	14313910.02	39°25'2.5921"N	80°56'55.1067"W	2551.61	71.206	2.60	2.50	-0.76	
6954.00†	73.646	357.208	6083.40	-42.90	826.82	2415.34	1654921.52	14313914.80	39°25'2.6394"N	80°56'55.1095"W	2552.94	71.103	7.44	6.92	-2.83	Marcellus POE: 6954' MD
7043.00	79.820	354.760	6103.82	40.39	913.18	2409.25	1654915.43	14314001.13	39°25'3.4930"N	80°56'55.1865"W	2576.51	69.242	7.44	6.94	-2.75	
7138.00	87.290	351.470	6114.47	132.31	1006.82	2397.93	1654904.11	14314094.73	39°25'4.4185"N	80°56'55.3301"W	2600.72	67.224	8.58	7.86	-3.46	
7233.00	90.030	350.630	6116.70	225.55	1100.62	2383.15	1654889.34	14314188.50	39°25'5.3457"N	80°56'55.5177"W	2625.03	65.211	3.02	2.88	-0.88	
7327.00	90.060	348.940	6116.62	318.22	1193.13	2366.48	1654872.68	14314280.97	39°25'6.2601"N	80°56'55.7294"W	2650.24	63.244	1.80	0.03	-1.80	
7422.00	90.740	346.550	6115.96	412.38	1285.96	2346.32	1654852.52	14314373.76	39°25'7.1777"N	80°56'55.9856"W	2675.61	61.274	2.62	0.72	-2.52	
7516.00	90.650	342.490	6114.82	506.07	1376.52	2321.24	1654827.45	14314464.28	39°25'8.0729"N	80°56'56.3046"W	2698.69	59.332	4.32	-0.10	-4.32	
7611.00	90.400	342.180	6113.95	601.00	1467.04	2292.41	1654798.64	14314554.76	39°25'8.9677"N	80°56'56.6712"W	2721.64	57.383	0.42	-0.26	-0.33	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'
Page 5 of 12



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Garmin Unit 2H
Field	Tyler		API	47-095-02599-0000
Facility	Sine Pad		Wellbore	Garmin Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (252 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
7705.00	90.490	341.320	6113.22	694.96	1556.30	2262.97	1654769.21	14314644.00	39°25'9.8501"N	80°56'57.0457"W	2746.48	55.483	0.92	0.10	-0.91	
7800.00	90.460	341.040	6112.43	789.94	1646.22	2232.33	1654738.58	14314733.88	39°25'10.7390"N	80°56'57.4355"W	2773.69	53.593	0.30	-0.03	-0.29	
7895.00	90.460	339.160	6111.67	884.93	1735.54	2200.00	1654706.26	14314823.16	39°25'11.6220"N	80°56'57.8469"W	2802.16	51.731	1.98	0.00	-1.98	
7989.00	90.550	338.070	6110.84	978.90	1823.07	2165.72	1654672.00	14314910.65	39°25'12.4872"N	80°56'58.2830"W	2830.89	49.910	1.16	0.10	-1.16	
8084.00	90.340	336.720	6110.10	1073.78	1910.76	2129.21	1654635.50	14314998.31	39°25'13.3542"N	80°56'58.7476"W	2860.86	48.095	1.44	-0.22	-1.42	
8178.00	90.370	335.640	6109.52	1167.55	1996.75	2091.25	1654597.55	14315084.27	39°25'14.2043"N	80°56'59.2307"W	2891.42	46.324	1.15	0.03	-1.15	
8273.00	90.220	334.990	6109.03	1262.21	2083.07	2051.57	1654557.89	14315170.55	39°25'15.0576"N	80°56'59.7356"W	2923.72	44.564	0.70	-0.16	-0.68	
8368.00	90.490	337.070	6108.44	1356.96	2169.87	2012.98	1654519.32	14315257.32	39°25'15.9157"N	80°57'0.2268"W	2959.80	42.852	2.21	0.28	2.19	
8463.00	90.000	338.580	6108.03	1451.88	2257.84	1977.13	1654483.48	14315345.25	39°25'16.7853"N	80°57'0.6830"W	3001.14	41.208	1.67	-0.52	1.59	
8557.00	89.910	341.510	6108.11	1545.87	2346.19	1945.05	1654451.41	14315433.56	39°25'17.6587"N	80°57'1.0912"W	3047.59	39.660	3.12	-0.10	3.12	
8652.00	90.800	343.200	6107.52	1640.79	2436.71	1916.25	1654422.63	14315524.05	39°25'18.5535"N	80°57'1.4574"W	3099.93	38.182	2.01	0.94	1.78	
8747.00	90.860	342.600	6106.14	1735.67	2527.50	1888.32	1654394.71	14315614.80	39°25'19.4510"N	80°57'1.8127"W	3155.00	36.764	0.63	0.06	-0.63	
8841.00	91.020	342.380	6104.60	1829.58	2617.13	1860.04	1654366.44	14315704.40	39°25'20.3371"N	80°57'2.1724"W	3210.79	35.402	0.29	0.17	-0.23	
8936.00	91.050	340.630	6102.89	1924.54	2707.21	1829.91	1654336.33	14315794.44	39°25'21.2275"N	80°57'2.5557"W	3267.66	34.056	1.84	0.03	-1.84	
9031.00	90.830	337.170	6101.33	2019.49	2795.82	1795.73	1654302.15	14315883.01	39°25'22.1034"N	80°57'2.9908"W	3322.83	32.712	3.65	-0.23	-3.64	
9125.00	90.680	336.630	6100.09	2113.33	2882.27	1758.85	1654265.29	14315969.43	39°25'22.9581"N	80°57'3.4601"W	3376.54	31.393	0.60	-0.16	-0.57	
9220.00	90.220	337.700	6099.34	2208.19	2969.82	1721.98	1654228.44	14316056.94	39°25'23.8236"N	80°57'3.9292"W	3432.94	30.106	1.23	-0.48	1.13	
9314.00	89.850	341.160	6099.28	2302.17	3057.81	1688.96	1654195.43	14316144.90	39°25'24.6934"N	80°57'4.3494"W	3493.25	28.914	3.70	-0.39	3.68	
9409.00	91.170	343.640	6098.44	2397.09	3148.35	1660.24	1654166.72	14316235.41	39°25'25.5884"N	80°57'4.7148"W	3559.29	27.804	2.96	1.39	2.61	
9504.00	90.950	345.730	6096.68	2491.77	3239.96	1635.15	1654141.64	14316326.98	39°25'26.4940"N	80°57'5.0338"W	3629.20	26.779	2.21	-0.23	2.20	
9598.00	90.830	344.410	6095.22	2585.40	3330.77	1610.94	1654117.44	14316417.75	39°25'27.3916"N	80°57'5.3418"W	3699.89	25.811	1.41	-0.13	-1.40	
9693.00	91.420	343.790	6093.36	2680.16	3422.12	1584.92	1654091.43	14316509.06	39°25'28.2946"N	80°57'5.6727"W	3771.32	24.851	0.90	0.62	-0.65	
9788.00	92.740	344.180	6089.91	2774.88	3513.37	1558.73	1654065.25	14316600.28	39°25'29.1966"N	80°57'6.0059"W	3843.62	23.925	1.45	1.39	0.41	
9883.00	92.090	343.210	6085.90	2869.61	3604.47	1532.08	1654038.61	14316691.34	39°25'30.0971"N	80°57'6.3448"W	3916.56	23.028	1.23	-0.68	-1.02	
9977.00	90.890	341.160	6083.46	2963.51	3693.92	1503.33	1654009.87	14316780.76	39°25'30.9814"N	80°57'6.7105"W	3988.12	22.145	2.53	-1.28	-2.18	
10071.00	90.620	340.310	6082.22	3057.50	3782.65	1472.32	1653978.88	14316869.45	39°25'31.8585"N	80°57'7.1051"W	4059.09	21.267	0.95	-0.29	-0.90	
10166.00	90.650	341.330	6081.17	3152.49	3872.37	1441.11	1653947.68	14316959.13	39°25'32.7454"N	80°57'7.5022"W	4131.84	20.413	1.07	0.03	1.07	
10260.00	90.580	341.180	6080.16	3246.46	3961.38	1410.91	1653917.49	14317048.11	39°25'33.6253"N	80°57'7.8865"W	4205.14	19.604	0.18	-0.07	-0.16	
10355.00	90.620	340.440	6079.16	3341.45	4051.10	1379.68	1653886.27	14317137.79	39°25'34.5122"N	80°57'8.2838"W	4279.59	18.807	0.78	0.04	-0.78	
10450.00	90.550	340.540	6078.19	3436.44	4140.64	1347.96	1653854.56	14317227.29	39°25'35.3973"N	80°57'8.6875"W	4354.52	18.032	0.13	-0.07	0.11	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'

Page 6 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Garmin Unit 2H
Field	Tyler	API	47-095-02599-0000
Facility	Sine Pad	Wellbore	Garmin Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (252 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
10544.00	90.580	339.480	6077.27	3530.44	4228.97	1315.82	1653822.44	14317315.59	39°25'36.2705"N	80°57'9.0964"W	4428.95	17.283	1.13	0.03	-1.13	
10639.00	90.430	339.330	6076.43	3625.43	4317.89	1282.41	1653789.04	14317404.47	39°25'37.1495"N	80°57'9.5216"W	4504.31	16.541	0.22	-0.16	-0.16	
10733.00	90.490	339.600	6075.68	3719.42	4405.92	1249.44	1653756.08	14317492.46	39°25'38.0197"N	80°57'9.9412"W	4579.65	15.832	0.29	0.06	0.29	
10828.00	90.520	339.620	6074.84	3814.41	4494.96	1216.34	1653723.00	14317581.47	39°25'38.8999"N	80°57'10.3624"W	4656.62	15.142	0.04	0.03	0.02	
10922.00	90.460	338.880	6074.03	3908.39	4582.86	1183.04	1653689.71	14317669.34	39°25'39.7689"N	80°57'10.7862"W	4733.09	14.475	0.79	-0.06	-0.79	
11016.00	90.490	338.660	6073.26	4002.36	4670.48	1149.00	1653655.68	14317756.92	39°25'40.6350"N	80°57'11.2194"W	4809.74	13.821	0.24	0.03	-0.23	
11111.00	90.520	339.120	6072.42	4097.34	4759.10	1114.78	1653621.48	14317845.50	39°25'41.5111"N	80°57'11.6548"W	4887.92	13.183	0.49	0.03	0.48	
11205.00	90.550	339.450	6071.54	4191.32	4847.02	1081.54	1653588.25	14317933.39	39°25'42.3802"N	80°57'12.0779"W	4966.22	12.579	0.35	0.03	0.35	
11300.00	90.090	338.240	6071.01	4286.29	4935.61	1047.25	1653553.98	14318021.95	39°25'43.2560"N	80°57'12.5142"W	5045.49	11.980	1.36	-0.48	-1.27	
11394.00	90.460	339.580	6070.56	4380.27	5023.31	1013.41	1653520.15	14318109.61	39°25'44.1229"N	80°57'12.9449"W	5124.51	11.406	1.46	0.39	1.40	
11489.00	90.060	338.290	6070.13	4475.24	5111.95	979.25	1653486.01	14318198.21	39°25'44.9991"N	80°57'13.3796"W	5204.90	10.844	1.40	-0.42	-1.34	
11583.00	90.680	338.590	6069.52	4569.20	5199.37	944.71	1653451.48	14318285.60	39°25'45.8633"N	80°57'13.8193"W	5284.50	10.298	0.73	0.66	0.32	
11678.00	91.170	338.140	6067.99	4664.14	5287.67	909.69	1653416.47	14318373.86	39°25'46.7362"N	80°57'14.2650"W	5365.35	9.762	0.70	0.52	-0.47	
11772.00	90.620	336.280	6066.52	4758.00	5374.31	873.29	1653380.08	14318460.47	39°25'47.5927"N	80°57'14.7284"W	5444.80	9.229	2.06	-0.59	-1.98	
11867.00	90.770	337.610	6065.37	4852.85	5461.72	836.09	1653342.90	14318547.84	39°25'48.4568"N	80°57'15.2019"W	5525.34	8.703	1.41	0.16	1.40	
11962.00	90.220	338.490	6064.54	4947.78	5549.82	800.58	1653307.40	14318635.91	39°25'49.3278"N	80°57'15.6538"W	5607.27	8.208	1.09	-0.58	0.93	
12056.00	90.860	341.920	6063.66	5041.76	5638.25	768.75	1653275.59	14318724.30	39°25'50.2019"N	80°57'16.0589"W	5690.42	7.764	3.71	0.68	3.65	
12151.00	90.800	342.420	6062.28	5136.69	5728.68	739.67	1653246.61	14318814.70	39°25'51.0958"N	80°57'16.4290"W	5776.23	7.357	0.53	-0.06	0.53	
12245.00	90.770	339.310	6060.99	5230.66	5817.47	708.86	1653215.72	14318903.45	39°25'51.9735"N	80°57'16.8210"W	5860.50	6.947	3.31	-0.03	-3.31	
12340.00	90.800	338.400	6059.69	5325.63	5906.06	674.59	1653181.47	14318992.01	39°25'52.8493"N	80°57'17.2571"W	5944.46	6.516	0.96	0.03	-0.96	
12434.00	90.740	338.310	6058.43	5419.57	5993.43	639.92	1653146.81	14319079.33	39°25'53.7129"N	80°57'17.6984"W	6027.49	6.094	0.12	-0.06	-0.10	
12529.00	90.580	338.390	6057.34	5514.52	6081.72	604.88	1653111.78	14319167.59	39°25'54.5857"N	80°57'18.1445"W	6111.72	5.680	0.19	-0.17	0.08	
12624.00	90.830	338.990	6056.17	5609.48	6170.22	570.36	1653077.27	14319256.05	39°25'55.4605"N	80°57'18.5839"W	6196.52	5.281	0.68	0.26	0.63	
12718.00	91.140	340.880	6054.55	5703.46	6258.49	538.11	1653045.04	14319344.30	39°25'56.3332"N	80°57'18.9942"W	6281.58	4.914	2.04	0.33	2.01	
12812.00	90.680	341.140	6053.06	5797.44	6347.37	507.53	1653014.47	14319433.13	39°25'57.2117"N	80°57'19.3635"W	6367.62	4.572	0.56	-0.49	0.28	
12907.00	90.550	341.250	6052.04	5892.42	6437.29	476.91	1652983.86	14319523.02	39°25'58.1006"N	80°57'19.7731"W	6454.93	4.237	0.18	-0.14	0.12	
13001.00	90.740	341.730	6050.98	5986.39	6526.42	447.07	1652954.03	14319612.12	39°25'58.9817"N	80°57'20.1529"W	6541.71	3.919	0.55	0.20	0.51	
13096.00	90.680	343.610	6049.80	6081.28	6617.10	418.77	1652925.75	14319702.76	39°25'59.8780"N	80°57'20.5129"W	6630.33	3.621	1.98	-0.06	1.98	
13190.00	90.710	343.640	6048.66	6175.10	6707.28	392.27	1652899.26	14319792.90	39°26'0.7694"N	80°57'20.8501"W	6718.74	3.347	0.05	0.03	0.03	
13284.00	90.550	343.470	6047.63	6268.93	6797.43	365.66	1652872.66	14319883.01	39°26'1.6806"N	80°57'21.1886"W	6807.25	3.079	0.25	-0.17	-0.18	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'
Page 7 of 12



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Garmin Unit 2H
Field	Tyler		API	47-095-02599-0000
Facility	Sine Pad		Wellbore	Garmin Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (252 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
13379.00	90.860	344.010	6046.46	6363.73	6888.62	339.07	1652846.08	14319974.17	39°26'2.5620"N	80°57'21.5270"W	6896.96	2.818	0.66	0.33	0.57	
13474.00	90.650	344.990	6045.21	6458.45	6980.15	313.68	1652820.70	14320065.67	39°26'3.4668"N	80°57'21.8500"W	6987.20	2.573	1.05	-0.22	1.03	
13568.00	90.710	342.900	6044.09	6552.23	7070.48	287.69	1652794.72	14320155.95	39°26'4.3596"N	80°57'22.1807"W	7076.33	2.330	2.22	0.06	-2.22	
13663.00	90.650	339.980	6042.96	6647.19	7160.52	257.46	1652764.50	14320245.96	39°26'5.2497"N	80°57'22.5655"W	7165.15	2.059	3.07	-0.06	-3.07	
13757.00	90.520	338.250	6042.00	6741.17	7248.34	223.95	1652731.00	14320333.74	39°26'6.1178"N	80°57'22.9920"W	7251.80	1.770	1.85	-0.14	-1.84	
13852.00	90.580	338.450	6041.09	6836.11	7336.63	188.90	1652695.97	14320422.00	39°26'6.9906"N	80°57'23.4381"W	7339.06	1.475	0.22	0.06	0.21	
13947.00	89.630	337.440	6040.92	6931.04	7424.68	153.23	1652660.31	14320510.01	39°26'7.8610"N	80°57'23.8922"W	7426.26	1.182	1.46	-1.00	-1.06	
14041.00	90.580	337.210	6040.75	7024.93	7511.41	116.99	1652624.09	14320596.71	39°26'8.7184"N	80°57'24.3535"W	7512.32	0.892	1.04	1.01	-0.24	
14136.00	90.490	336.170	6039.86	7119.75	7598.65	79.40	1652586.52	14320683.91	39°26'9.5808"N	80°57'24.8321"W	7599.07	0.599	1.10	-0.09	-1.09	
14230.00	90.650	336.730	6038.92	7213.55	7684.82	41.85	1652548.98	14320770.05	39°26'10.4326"N	80°57'25.3102"W	7684.93	0.312	0.62	0.17	0.60	
14325.00	90.520	338.180	6037.95	7308.44	7772.55	5.43	1652512.57	14320857.74	39°26'11.2999"N	80°57'25.7738"W	7772.55	0.040	1.53	-0.14	1.53	
14420.00	89.880	339.620	6037.62	7403.41	7861.18	-28.77	1652478.39	14320946.34	39°26'12.1760"N	80°57'26.2092"W	7861.23	359.790	1.66	-0.67	1.52	
14514.00	89.880	340.730	6037.82	7497.41	7949.60	-60.65	1652446.52	14321034.73	39°26'13.0501"N	80°57'26.6149"W	7949.84	359.563	1.18	0.00	1.18	
14609.00	89.750	341.240	6038.13	7592.40	8039.42	-91.60	1652415.58	14321124.51	39°26'13.9379"N	80°57'27.0089"W	8039.94	359.347	0.55	-0.14	0.54	
14703.00	89.850	342.540	6038.45	7686.35	8128.76	-120.82	1652386.37	14321213.81	39°26'14.8211"N	80°57'27.3808"W	8129.66	359.148	1.39	0.11	1.38	
14798.00	89.720	342.120	6038.81	7781.28	8219.28	-149.66	1652357.55	14321304.29	39°26'15.7158"N	80°57'27.7477"W	8220.64	358.957	0.46	-0.14	-0.44	
14892.00	89.750	341.540	6039.25	7875.24	8308.59	-178.97	1652328.25	14321393.57	39°26'16.5987"N	80°57'28.1208"W	8310.52	358.766	0.62	0.03	-0.62	
14986.00	89.850	341.320	6039.57	7969.22	8397.69	-208.91	1652298.33	14321482.64	39°26'17.4795"N	80°57'28.5018"W	8400.29	358.575	0.26	0.11	-0.23	
15081.00	89.970	339.790	6039.72	8064.21	8487.27	-240.53	1652266.71	14321572.18	39°26'18.3650"N	80°57'28.9044"W	8490.68	358.377	1.62	0.13	-1.61	
15175.00	89.940	340.050	6039.80	8158.21	8575.56	-272.80	1652234.45	14321660.43	39°26'19.2377"N	80°57'29.3152"W	8579.90	358.178	0.28	-0.03	0.28	
15270.00	89.850	339.570	6039.97	8253.21	8664.72	-305.59	1652201.68	14321749.56	39°26'20.1191"N	80°57'29.7325"W	8670.11	357.980	0.51	-0.09	-0.51	
15364.00	90.060	340.910	6040.04	8347.21	8753.18	-337.37	1652169.91	14321837.98	39°26'20.9935"N	80°57'30.1371"W	8759.68	357.793	1.44	0.22	1.43	
15459.00	90.150	340.310	6039.87	8442.20	8842.80	-368.91	1652138.39	14321927.56	39°26'21.8793"N	80°57'30.5385"W	8850.49	357.611	0.64	0.09	-0.63	
15553.00	90.000	338.900	6039.75	8536.20	8930.90	-401.67	1652105.64	14322015.63	39°26'22.7503"N	80°57'30.9555"W	8939.93	357.425	1.51	-0.16	-1.50	
15648.00	90.030	337.550	6039.72	8631.14	9019.12	-436.91	1652070.42	14322103.81	39°26'23.6223"N	80°57'31.4042"W	9029.70	357.227	1.42	0.03	-1.42	
15742.00	90.150	336.920	6039.57	8725.02	9105.80	-473.28	1652034.06	14322190.45	39°26'24.4792"N	80°57'31.8673"W	9118.09	357.025	0.68	0.13	-0.67	
15837.00	90.340	338.300	6039.17	8819.92	9193.63	-509.47	1651997.89	14322278.25	39°26'25.3475"N	80°57'32.3280"W	9207.74	356.828	1.47	0.20	1.45	
15931.00	90.000	338.070	6038.89	8913.87	9280.90	-544.40	1651962.97	14322365.49	39°26'26.2101"N	80°57'32.7727"W	9296.85	356.643	0.44	-0.36	-0.24	
16026.00	90.090	337.570	6038.82	9008.79	9368.87	-580.26	1651927.12	14322453.42	39°26'27.0797"N	80°57'33.2293"W	9386.82	356.456	0.53	0.09	-0.53	
16121.00	90.120	336.550	6038.64	9103.65	9456.36	-617.29	1651890.11	14322540.87	39°26'27.9446"N	80°57'33.7008"W	9476.48	356.265	1.07	0.03	-1.07	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'

Page 8 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Garmin Unit 2H
Field	Tyler	API	47-095-02599-0000
Facility	Sine Pad	Wellbore	Garmin Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (252 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
16215.00	90.090	338.920	6038.47	9197.56	9543.34	-652.90	1651854.51	14322627.82	39°26'28.8044"N	80°57'34.1542"W	9565.65	356.086	2.52	-0.03	2.52	
16310.00	90.000	339.820	6038.39	9292.55	9632.25	-686.37	1651821.05	14322716.69	39°26'29.6833"W	80°57'34.5803"W	9566.67	355.924	0.95	-0.09	0.95	
16405.00	90.000	340.680	6038.39	9387.55	9721.66	-718.47	1651788.96	14322806.07	39°26'30.5671"N	80°57'34.9890"W	9748.17	355.773	0.91	0.00	0.91	
16500.00	89.780	341.390	6038.58	9482.54	9811.50	-749.35	1651758.10	14322895.88	39°26'31.4552"N	80°57'35.3820"W	9840.07	355.633	0.78	-0.23	0.75	
16595.00	89.750	341.560	6038.97	9577.51	9901.58	-779.53	1651727.93	14322985.92	39°26'32.3456"N	80°57'35.7662"W	9932.22	355.499	0.18	-0.03	0.18	
16689.00	89.820	343.290	6039.32	9671.43	9991.19	-807.91	1651699.56	14323075.49	39°26'33.2314"N	80°57'36.1274"W	10023.80	355.377	1.84	0.07	1.84	
16784.00	89.850	344.630	6039.59	9766.22	10082.48	-834.16	1651673.32	14323166.75	39°26'34.1338"N	80°57'36.4615"W	10116.93	355.270	1.41	0.03	1.41	
16878.00	89.720	345.660	6039.95	9859.86	10173.34	-858.26	1651649.23	14323257.57	39°26'35.0319"N	80°57'36.7682"W	10209.48	355.178	1.10	-0.14	1.10	
16973.00	89.450	345.720	6040.63	9954.41	10265.39	-881.74	1651625.76	14323349.58	39°26'35.9418"N	80°57'37.0669"W	10303.19	355.091	0.29	-0.28	0.06	
17067.00	89.450	345.790	6041.54	10047.95	10356.50	-904.87	1651602.64	14323440.65	39°26'36.8423"N	80°57'37.3612"W	10395.95	355.007	0.07	0.00	0.07	
17162.00	88.860	344.560	6042.94	10142.58	10448.32	-929.17	1651578.35	14323532.44	39°26'37.7500"N	80°57'37.6705"W	10489.56	354.918	1.44	-0.62	-1.29	
17243.00	89.350	343.000	6044.20	10223.40	10526.09	-951.80	1651555.73	14323610.17	39°26'38.5187"N	80°57'37.9584"W	10569.03	354.833	2.02	0.60	-1.93	
17337.00	89.750	342.540	6044.94	10317.30	10615.86	-979.64	1651527.90	14323699.92	39°26'39.4061"N	80°57'38.3128"W	10660.97	354.728	0.65	0.43	-0.49	
17432.00	89.820	340.910	6045.30	10412.26	10706.07	-1009.43	1651498.12	14323790.08	39°26'40.2978"N	80°57'38.6920"W	10753.55	354.614	1.72	0.07	-1.72	
17526.00	89.970	339.440	6045.47	10506.25	10794.50	-1041.31	1651466.26	14323878.47	39°26'41.1719"N	80°57'39.0979"W	10844.60	354.490	1.57	0.16	-1.56	
17620.00	90.860	338.070	6044.79	10600.22	10882.10	-1075.37	1651432.21	14323966.05	39°26'42.0379"N	80°57'39.5316"W	10935.11	354.356	1.74	0.95	-1.46	
17715.00	90.650	336.770	6043.54	10695.10	10969.81	-1111.84	1651395.75	14324053.72	39°26'42.9049"N	80°57'39.9960"W	11026.01	354.213	1.39	-0.22	-1.37	
17810.00	90.180	335.260	6042.85	10789.85	11056.60	-1150.45	1651357.15	14324140.48	39°26'43.7628"N	80°57'40.4877"W	11116.29	354.060	1.66	-0.49	-1.59	
17904.00	89.660	334.850	6042.98	10883.48	11141.83	-1190.10	1651317.53	14324225.67	39°26'44.6054"N	80°57'40.9926"W	11205.21	353.903	0.70	-0.55	-0.44	
17999.00	89.420	335.290	6043.74	10978.11	11227.98	-1230.14	1651277.50	14324311.78	39°26'45.4570"N	80°57'41.5025"W	11295.16	353.748	0.53	-0.25	0.46	
18093.00	89.480	336.840	6044.64	11071.86	11313.89	-1268.27	1651239.38	14324397.66	39°26'46.3062"N	80°57'41.9882"W	11384.75	353.604	1.65	0.06	1.65	
18188.00	89.380	337.570	6045.59	11166.73	11401.46	-1305.08	1651202.59	14324485.20	39°26'47.1719"N	80°57'42.4568"W	11475.91	353.470	0.78	-0.11	0.77	
18282.00	89.480	338.830	6046.52	11260.67	11488.73	-1339.98	1651167.70	14324572.43	39°26'48.0346"N	80°57'42.9013"W	11566.61	353.347	1.34	0.11	1.34	
18376.00	89.350	340.090	6047.48	11354.66	11576.75	-1372.96	1651134.74	14324660.42	39°26'48.9047"N	80°57'43.3212"W	11657.88	353.237	1.35	-0.14	1.34	
18470.00	89.230	341.050	6048.65	11448.65	11665.39	-1404.23	1651103.48	14324749.02	39°26'49.7808"N	80°57'43.7193"W	11749.60	353.136	1.03	-0.13	1.02	
18565.00	89.320	340.350	6049.85	11543.63	11755.04	-1435.63	1651072.10	14324838.64	39°26'50.6671"N	80°57'44.1190"W	11842.39	353.037	0.74	0.09	-0.74	
18659.00	89.290	340.400	6050.99	11637.63	11843.58	-1467.19	1651040.54	14324927.14	39°26'51.5422"N	80°57'44.5210"W	11934.11	352.938	0.06	-0.03	0.05	
18753.00	88.550	340.640	6052.76	11731.61	11932.18	-1498.54	1651009.21	14325015.70	39°26'52.4180"N	80°57'44.9200"W	12025.91	352.842	0.83	-0.79	0.26	
18848.00	88.550	342.050	6055.17	11826.55	12022.16	-1528.91	1650978.85	14325105.64	39°26'53.3074"N	80°57'45.3068"W	12118.99	352.752	1.48	0.00	1.48	
18942.00	88.520	342.350	6057.57	11920.46	12111.63	-1557.64	1650950.13	14325195.08	39°26'54.1918"N	80°57'45.6725"W	12211.38	352.672	0.32	-0.03	0.32	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'
Page 9 of 12



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Garmin Unit 2H
Field	Tyler		API	47-095-02599-0000
Facility	Sine Pad		Wellbore	Garmin Unit 2H AWB
Slot	Slot #06			

WELLPATH DATA (252 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
19037.00	89.170	343.940	6059.49	12015.31	12202.53	-1585.18	1650922.61	14325285.94	39°26'55.0903"N	80°57'46.0230"W	12305.06	352.598	1.81	0.68	1.67	
19131.00	89.170	343.940	6060.85	12109.09	12292.85	-1611.18	1650896.62	14325376.23	39°26'55.9831"N	80°57'46.3540"W	12397.98	352.533	0.00	0.00	0.00	
19226.00	89.320	343.130	6062.10	12203.92	12383.94	-1638.10	1650869.70	14325467.28	39°26'56.8836"N	80°57'46.6967"W	12491.81	352.465	0.87	0.16	-0.85	
19320.00	89.170	342.530	6063.34	12297.80	12473.75	-1665.85	1650841.97	14325557.05	39°26'57.7713"N	80°57'47.0500"W	12584.49	352.393	0.66	-0.16	-0.64	
19415.00	89.140	341.860	6064.74	12392.73	12564.19	-1694.89	1650812.93	14325647.45	39°26'58.6652"N	80°57'47.4198"W	12677.99	352.317	0.71	-0.03	-0.71	
19509.00	89.660	342.340	6065.72	12486.67	12653.63	-1723.78	1650784.06	14325736.86	39°26'59.5494"N	80°57'47.7876"W	12770.50	352.242	0.75	0.55	0.51	
19604.00	90.030	343.140	6065.98	12581.57	12744.35	-1751.97	1650755.88	14325827.55	39°27'0.4461"N	80°57'48.1464"W	12864.21	352.173	0.93	0.39	0.84	
19698.00	90.180	342.350	6065.81	12675.47	12834.12	-1779.85	1650728.01	14325917.28	39°27'1.3334"N	80°57'48.5014"W	12956.95	352.104	0.86	0.16	-0.84	
19793.00	90.400	339.730	6065.33	12770.45	12923.96	-1810.72	1650697.16	14326007.08	39°27'2.2215"N	80°57'48.8943"W	13050.19	352.024	2.77	0.23	-2.76	
19887.00	89.510	336.850	6065.40	12864.39	13011.28	-1845.48	1650662.40	14326094.37	39°27'3.0846"N	80°57'49.3371"W	13141.51	351.927	3.21	-0.95	-3.06	
19981.00	88.220	335.700	6067.26	12958.16	13097.31	-1883.30	1650624.61	14326180.37	39°27'3.9351"N	80°57'49.8187"W	13232.02	351.817	1.84	-1.37	-1.22	
20076.00	90.740	343.180	6068.13	13053.07	13186.19	-1916.63	1650591.29	14326269.21	39°27'4.8137"N	80°57'50.2432"W	13324.75	351.730	8.31	2.65	7.87	
20170.00	91.600	342.100	6066.21	13146.96	13275.89	-1944.67	1650563.26	14326358.87	39°27'5.7003"N	80°57'50.6002"W	13417.56	351.666	1.47	0.91	-1.15	
20264.00	89.850	338.620	6065.02	13240.93	13364.39	-1976.26	1650531.68	14326447.34	39°27'6.5752"N	80°57'51.0024"W	13509.72	351.588	4.14	-1.86	-3.70	
20359.00	90.340	337.520	6064.86	13335.87	13452.52	-2011.74	1650496.22	14326535.43	39°27'7.4463"N	80°57'51.4542"W	13602.11	351.495	1.27	0.52	-1.16	
20453.00	89.750	336.590	6064.79	13429.73	13539.08	-2048.38	1650459.59	14326621.96	39°27'8.3019"N	80°57'51.9209"W	13693.16	351.397	1.17	-0.63	-0.99	
20548.00	90.460	337.090	6064.61	13524.57	13626.42	-2085.74	1650422.24	14326709.26	39°27'9.1653"N	80°57'52.3968"W	13785.13	351.297	0.91	0.75	0.53	
20642.00	90.980	336.810	6063.43	13618.42	13712.91	-2122.55	1650385.45	14326795.72	39°27'10.0203"N	80°57'52.8655"W	13876.21	351.201	0.63	0.55	-0.30	
20737.00	91.110	337.610	6061.70	13713.28	13800.48	-2159.34	1650348.68	14326883.25	39°27'10.8859"N	80°57'53.3341"W	13968.39	351.107	0.85	0.14	0.84	
20831.00	90.120	338.090	6060.69	13807.20	13887.53	-2194.78	1650313.25	14326970.27	39°27'11.7464"N	80°57'53.7855"W	14059.90	351.019	1.17	-1.05	0.51	
20926.00	90.150	339.620	6060.47	13902.17	13976.14	-2229.04	1650279.00	14327058.84	39°27'12.6223"N	80°57'54.2219"W	14152.77	350.938	1.61	0.03	1.61	
21020.00	90.180	339.380	6060.19	13996.16	14064.18	-2261.96	1650246.09	14327146.85	39°27'13.4926"N	80°57'54.6411"W	14244.92	350.863	0.26	0.03	-0.26	
21115.00	89.660	340.270	6060.33	14091.16	14153.35	-2294.73	1650213.34	14327235.98	39°27'14.3740"N	80°57'55.0584"W	14338.17	350.791	1.09	-0.55	0.94	
21209.00	89.660	340.420	6060.88	14185.16	14241.87	-2326.34	1650181.74	14327324.47	39°27'15.2490"N	80°57'55.4610"W	14430.62	350.723	0.16	0.00	0.16	
21304.00	89.690	340.880	6061.42	14280.15	14331.51	-2357.82	1650150.27	14327414.06	39°27'16.1350"N	80°57'55.8618"W	14524.17	350.657	0.49	0.03	0.48	
21398.00	89.750	342.290	6061.88	14374.12	14420.69	-2387.51	1650120.59	14327503.21	39°27'17.0166"N	80°57'56.2399"W	14616.99	350.599	1.50	0.06	1.50	
21493.00	89.660	342.430	6062.37	14469.05	14511.22	-2416.30	1650091.82	14327593.71	39°27'17.9115"N	80°57'56.6065"W	14711.02	350.546	0.18	-0.09	0.15	
21587.00	90.030	342.050	6062.63	14562.98	14600.74	-2444.97	1650063.15	14327683.19	39°27'18.7963"N	80°57'56.9716"W	14804.04	350.494	0.56	0.39	-0.40	
21682.00	90.120	341.820	6062.50	14657.94	14691.06	-2474.43	1650033.71	14327773.47	39°27'19.6891"N	80°57'57.3467"W	14897.99	350.439	0.26	0.09	-0.24	
21776.00	90.120	341.890	6062.31	14751.89	14780.38	-2503.71	1650004.45	14327862.76	39°27'20.5720"N	80°57'57.7195"W	14990.94	350.386	0.07	0.00	0.07	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'
Page 10 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Garmin Unit 2H
Field	Tyler	API	47-095-02599-0000
Facility	Sine Pad	Wellbore	Garmin Unit 2H AWB
Slot	Slot #06		

WELLPATH DATA (252 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
21870.00	90.060	341.690	6062.16	14845.86	14869.67	-2533.08	1649975.08	14327952.02	39°27'21.4546"N	80°57'58.0936"W	15083.89	350.332	0.22	-0.06	-0.21	
21965.00	90.120	341.210	6062.01	14940.83	14959.74	-2563.30	1649944.87	14328042.04	39°27'22.3449"N	80°57'58.4784"W	15177.76	350.277	0.51	0.06	-0.51	
22060.00	90.060	341.090	6061.86	15035.81	15049.64	-2594.00	1649914.19	14328131.91	39°27'23.2336"N	80°57'58.8693"W	15271.56	350.220	0.14	-0.06	-0.13	
22154.00	90.150	340.860	6061.69	15129.80	15138.51	-2624.64	1649883.56	14328220.74	39°27'24.1120"N	80°57'59.2595"W	15364.35	350.164	0.26	0.10	-0.24	
22248.00	90.090	340.140	6061.49	15223.80	15227.12	-2656.02	1649852.20	14328309.31	39°27'24.9878"N	80°57'59.6591"W	15457.02	350.106	0.77	-0.06	-0.77	
22343.00	90.090	339.750	6061.34	15318.80	15316.36	-2688.60	1649819.63	14328398.52	39°27'25.8700"N	80°58'0.0740"W	15550.54	350.044	0.41	0.00	-0.41	
22438.00	90.000	338.640	6061.27	15413.79	15405.16	-2722.34	1649785.90	14328487.29	39°27'26.7478"N	80°58'0.5038"W	15643.85	349.978	1.17	-0.09	-1.17	
22532.00	90.250	338.340	6061.06	15507.75	15492.61	-2756.80	1649751.45	14328574.70	39°27'27.6122"N	80°58'0.9428"W	15735.98	349.910	0.42	0.27	-0.32	
22627.00	90.340	337.500	6060.57	15602.67	15580.64	-2792.51	1649715.76	14328662.70	39°27'28.4824"N	80°58'1.3977"W	15828.92	349.839	0.89	0.09	-0.88	
22721.00	90.310	338.410	6060.04	15696.60	15667.77	-2827.79	1649680.49	14328749.79	39°27'29.3436"N	80°58'1.8471"W	15920.91	349.769	0.97	-0.03	0.97	
22773.00	90.340	336.900	6059.74	15748.55	15715.86	-2847.56	1649660.73	14328797.86	39°27'29.8190"N	80°58'2.0989"W	15971.75	349.730	2.90	0.06	-2.90	
22798.00‡	90.340	336.900	6059.60	15773.51	15738.86	-2857.37	1649650.92	14328820.85	39°27'30.0463"N	80°58'2.2238"W	15996.13	349.710	0.00	0.00	0.00	Projected MD at TD: 22798'

HOLE & CASING SECTIONS - Ref Wellbore: Garmin Unit 2H AWB Ref Wellpath: Garmin Unit 2H AWP Proj: 22798'										
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	110.00	80.00	30.00	110.00	0.00	0.00	0.07	-0.06	
17.5in Open Hole	110.00	404.00	294.00	110.00	404.00	0.07	-0.06	0.71	-0.18	
13.375in Casing Surface	30.00	387.00	357.00	30.00	387.00	0.00	0.00	0.73	-0.09	
12.25in Open Hole	404.00	2742.00	2338.00	404.00	2581.52	0.71	-0.18	13.70	730.54	
9.625in Casing Intermediate	30.00	2722.00	2692.00	30.00	2563.60	0.00	0.00	11.22	722.01	
8.75in Open Hole	2742.00	5851.00	3109.00	2581.52	5326.74	13.70	730.54	212.18	2166.91	
8.5in Open Hole	5851.00	22798.00	16947.00	5326.74	6059.60	212.18	2166.91	15738.86	-2857.37	
5.5in Casing Production	30.00	22798.00	22768.00	30.00	6059.60	0.00	0.00	15738.86	-2857.37	

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Actual Wellpath Report

Garmin Unit 2H AWP Proj: 22798'

Page 11 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Garmin Unit 2H
Field	Tyler	API	47-095-02599-0000
Facility	Sine Pad	Wellbore	Garmin Unit 2H AWB
Slot	Slot #06		

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Garmin Unit 2H - POE - Rev-1	6070.00	737.08	2427.78	1654933.95	14313825.10	39°25'1.7524"N	80°56'54.9517"W	point	
Garmin Unit 2H - BHL - Rev-1	6106.00	15734.30	-2859.19	1649649.10	14328816.30	39°27'30.0013"N	80°58'2.2471"W	point	
Garmin Unit 2H - LP - Rev-1	6106.00	960.43	2408.24	1654914.42	14314048.36	39°25'3.9600"N	80°56'55.1991"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Garmin Unit 2H AWB Ref Wellpath: Garmin Unit 2H AWP Proj: 22798'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
30.00	300.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2">(100'-300')	Garmin Unit 2H AWB	02/May/2020	
300.00	2670.00	BH NaviTrak (2019) (Axial)	02 APS EM <12-1/4">(300')(398'-2670')	Garmin Unit 2H AWB	02/May/2020	
2670.00	5782.00	BH NaviTrak (2019) (Axial)	03 APS EM <8-3/4">(2670')(2748'-5782')	Garmin Unit 2H AWB	02/May/2020	
5782.00	22798.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve <8-1/2">(5782')(5809'-22773')	Garmin Unit 2H AWB	02/May/2020	

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Garmin Unit 2H AWP Proj: 22798'

Page 12 of 12



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Garmin Unit 2H
Field	Tyler	API	47-095-02599-0000
Facility	Sine Pad	Wellbore	Garmin Unit 2H AWB
Slot	Slot #06		

COMMENTS

Wellpath general comments

API: 47-095-02599-0000

BH Job #: 110401713

Rig: H&P 519

Duration: 5/4/2020-5/14/2020

Gyrodatta MS Gyro <17-1/2"> (100'-300')

APS EM <12-1/4"> (300')(398'-2670')

APS EM <8-3/4"> (2670')(2748'-5782')

BH AT Curve <8-1/2"> (5782')(5809'-22773')

Middlesex: 6640' MD

Burkett: 6849' MD

Tully: 6916' MD

Marcellus POE: 6954' MD

Projected MD at TD: 22798'