



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999600
Convergence at slot	0.03° East
Software System	WellArchitect® 5.1
User	Miccrerib
Report Generated	5/9/2018 at 3:26:34 PM
Database/Source file	WA_MPL_EASTERNUS_Defn/McKim_Unit_2H_AWP_Proj_19680_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-66.77	18.88	1654164.43	14302264.38	39°23'07.450"N	80°57'04.840"W
Facility Reference Pt			1654145.56	14302331.12	39°23'08.110"N	80°57'05.080"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Frontier 32 (RKB)
MD Reference Pt	Frontier 32 (RKB)
Field Vertical Reference	Mean Sea Level
	Frontier 32 (RKB) to Facility Vertical Datum
	Frontier 32 (RKB) to Mean Sea Level
	Frontier 32 (RKB) to Ground Level at Slot (Slot #08)
	Section Origin
	Section Azimuth
	32.00ft
	1204.00ft
	32.00ft
	N 0.00, E 0.00 ft
	159.00°

05/03/2019



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'
Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION	Well	McKim Unit 2H
Area	Tyler County, WV	Wellbore	McKim Unit 2H AWB
Field	Tyler		
Facility	McKim Pad		

WELLPATH DATA (236 stations) t = 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	0.00	20.880	0.00	0.00	0.00	0.00	1654164.43	14302264.38	39°23'07.450"N	80°57'04.840"W	0.00	0.000	0.00	0.00	0.00	
32.00	0.00	20.880	32.00	0.00	0.00	0.00	1654164.43	14302264.38	39°23'07.450"N	80°57'04.840"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.272	20.880	100.00	-0.12	0.15	0.06	1654164.49	14302264.53	39°23'07.451"N	80°57'04.839"W	0.16	20.880	0.40	0.40	30.71	Gyrodatta MS Gyro <17-1/2">(100'-503')
117.00	0.340	20.880	117.00	-0.19	0.24	0.09	1654164.62	14302264.62	39°23'07.452"N	80°57'04.839"W	0.25	20.880	0.40	0.40	0.00	
217.00	0.270	3.940	217.00	-0.62	0.75	0.21	1654164.64	14302265.13	39°23'07.457"N	80°57'04.837"W	0.78	15.813	0.11	-0.07	-16.94	
317.00	0.150	30.850	317.00	-0.92	1.10	0.30	1654164.72	14302265.48	39°23'07.461"N	80°57'04.836"W	1.13	15.080	0.15	-0.12	26.91	
417.00	0.160	187.970	417.00	-0.86	1.07	0.39	1654164.82	14302265.45	39°23'07.461"N	80°57'04.835"W	1.14	20.070	0.29	0.01	137.12	
517.00	0.170	131.310	517.00	-0.59	0.84	0.53	1654164.96	14302265.22	39°23'07.458"N	80°57'04.833"W	0.99	32.445	0.10	0.01	137.12	
520.00	0.170	126.440	520.00	-0.58	0.83	0.54	1654164.97	14302265.21	39°23'07.458"N	80°57'04.833"W	0.99	32.956	0.48	0.00	-162.33	
563.00	0.174	188.406	563.00	-0.47	0.73	0.58	1654165.01	14302265.11	39°23'07.457"N	80°57'04.833"W	0.93	38.555	0.41	0.01	144.11	Gyrodatta MS Gyro <12-1/4">(503')(563'-1129')
580.00	0.220	204.050	580.00	-0.43	0.67	0.56	1654164.99	14302265.06	39°23'07.457"N	80°57'04.833"W	0.88	39.937	0.41	0.27	92.02	
670.00	0.370	240.050	670.00	-0.26	0.37	0.24	1654164.67	14302264.75	39°23'07.454"N	80°57'04.837"W	0.44	33.097	0.26	0.17	40.00	
760.00	1.040	21.970	759.99	-0.81	0.98	0.30	1654164.72	14302265.36	39°23'07.460"N	80°57'04.836"W	1.03	16.715	1.50	0.74	157.69	
881.00	3.510	38.790	880.89	-3.48	4.89	3.03	1654167.46	14302269.27	39°23'07.498"N	80°57'04.801"W	5.75	31.763	2.09	2.04	13.90	
969.00	5.350	49.980	968.82	-6.17	9.63	7.86	1654172.28	14302274.01	39°23'07.545"N	80°57'04.740"W	12.43	39.218	2.30	2.09	12.72	
1058.00	7.420	53.300	1057.07	-9.08	15.73	15.64	1654180.07	14302280.11	39°23'07.605"N	80°57'04.641"W	22.18	44.840	2.36	2.33	3.73	
1146.00	9.310	60.840	1144.13	-11.63	22.60	26.42	1654190.83	14302286.97	39°23'07.673"N	80°57'04.503"W	34.76	49.457	2.48	2.15	8.57	
1185.00	10.211	63.568	1182.56	-12.40	25.67	32.27	1654196.68	14302290.04	39°23'07.704"N	80°57'04.429"W	41.23	51.494	2.60	2.31	6.99	Directional ONE MWD <12-1/4">(1129')(1185'-2574')
1202.00	10.610	64.610	1199.28	-12.67	27.01	35.03	1654199.45	14302291.38	39°23'07.717"N	80°57'04.394"W	44.24	52.362	2.60	2.35	6.14	
1290.00	12.280	63.320	1285.53	-14.21	34.69	50.71	1654215.12	14302299.06	39°23'07.793"N	80°57'04.194"W	61.44	55.626	1.92	1.90	-1.47	
1378.00	12.960	59.900	1371.41	-16.70	43.84	67.61	1654232.01	14302308.21	39°23'07.883"N	80°57'03.979"W	80.58	57.040	1.15	0.77	-3.89	
1467.00	13.770	53.520	1458.00	-21.10	55.14	84.76	1654249.16	14302319.50	39°23'07.995"N	80°57'03.760"W	101.12	56.954	1.89	0.91	-7.17	
1555.00	15.600	53.210	1543.12	-27.12	68.46	102.66	1654267.05	14302332.81	39°23'08.126"N	80°57'03.532"W	123.39	56.303	2.08	2.08	-0.35	
1643.00	17.540	52.750	1627.46	-34.05	83.57	122.69	1654287.08	14302347.92	39°23'08.275"N	80°57'03.277"W	148.45	55.740	2.21	2.20	-0.52	
1731.00	17.690	54.950	1711.34	-41.01	99.28	144.20	1654308.57	14302363.62	39°23'08.430"N	80°57'03.003"W	175.07	55.453	0.78	0.17	2.50	
1819.00	17.140	53.540	1795.30	-47.71	114.66	165.57	1654329.93	14302379.00	39°23'08.582"N	80°57'02.731"W	201.40	55.297	0.79	-0.63	-1.60	
1908.00	16.950	52.780	1880.39	-54.83	130.30	186.45	1654350.80	14302394.63	39°23'08.737"N	80°57'02.465"W	227.47	55.052	0.33	-0.21	-0.85	
1996.00	16.720	51.440	1964.62	-62.23	145.95	206.56	1654370.91	14302410.28	39°23'08.891"N	80°57'02.208"W	252.92	54.756	0.51	-0.26	-1.52	
2084.00	17.480	55.710	2048.74	-69.09	161.29	227.38	1654391.72	14302425.61	39°23'09.043"N	80°57'01.943"W	278.78	54.651	1.67	0.86	4.85	
2172.00	18.780	56.120	2132.37	-75.29	176.63	250.06	1654414.39	14302440.94	39°23'09.194"N	80°57'01.654"W	306.15	54.764	1.48	1.48	0.47	



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

WELLPATH DATA (236 stations) † = interpolated/extrapolated station

MD Itl	Inclination (°)	Azimuth (°)	TVD Itl	Vert Sect Itl	North Itl	East Itl	Grid East IUS Itl	Grid North IUS Itl	Latitude	Longitude	Closure Dist Itl	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
2261.00	19.210	56.050	2216.52	-81.76	192.80	274.10	1654438.42	14302457.10	39°23'09.354"N	80°57'01.348"W	335.11	54.879	0.48	0.48	-0.08	
2349.00	18.780	58.830	2299.73	-87.51	208.21	298.23	1654462.54	14302472.51	39°23'09.506"N	80°57'01.040"W	363.72	55.079	1.14	-0.49	3.16	
2437.00	17.540	58.030	2383.34	-92.53	222.57	321.60	1654485.90	14302486.86	39°23'09.648"N	80°57'00.743"W	391.11	55.315	1.44	-1.41	-0.91	
2526.00	16.870	58.080	2468.36	-97.53	236.49	343.94	1654508.23	14302500.78	39°23'09.786"N	80°57'00.458"W	417.40	55.487	0.75	-0.75	0.06	
2591.00	16.570	58.470	2530.61	-101.01	246.33	359.85	1654528.13	14302510.61	39°23'09.883"N	80°57'00.255"W	436.08	55.607	0.49	-0.46	0.60	
2654.00†	16.617	58.352	2590.99	-104.32	255.75	375.17	1654539.45	14302520.03	39°23'09.976"N	80°57'00.060"W	454.05	55.718	0.09	0.07	-0.19	Directional ONE MWD <-8.3/4'> (2574') (2654'-5874')
2671.00	16.630	58.320	2607.28	-105.22	258.31	379.31	1654543.59	14302526.58	39°23'10.001"N	80°57'00.007"W	458.91	55.746	0.09	0.08	-0.19	
2759.00	17.030	54.570	2691.51	-110.76	272.39	400.53	1654564.80	14302536.66	39°23'10.140"N	80°56'59.737"W	484.37	55.781	1.31	0.45	-4.26	
2847.00	17.580	54.220	2775.53	-117.36	287.63	421.81	1654586.07	14302551.90	39°23'10.291"N	80°56'59.466"W	510.54	55.663	1.23	1.20	0.81	
2936.00	18.320	55.310	2860.20	-124.10	303.45	444.22	1654608.47	14302567.71	39°23'10.447"N	80°56'59.180"W	537.97	55.662	0.91	0.83	1.22	
3024.00	19.380	56.020	2943.47	-130.66	319.48	467.69	1654631.94	14302583.74	39°23'10.605"N	80°56'58.881"W	566.40	55.663	1.23	1.20	0.20	
3112.00	20.450	56.200	3026.21	-137.34	336.19	492.58	1654656.81	14302600.44	39°23'10.770"N	80°56'58.564"W	596.37	55.686	1.22	1.22	0.16	
3200.00	21.900	56.340	3108.27	-144.34	353.84	519.01	1654683.24	14302618.08	39°23'10.944"N	80°56'58.227"W	628.16	55.715	1.65	1.65	0.16	
3289.00	23.310	55.590	3190.43	-152.07	373.00	547.36	1654711.57	14302637.23	39°23'11.134"N	80°56'57.866"W	662.36	55.728	1.62	1.58	-0.84	
3377.00	24.740	57.500	3270.80	-159.78	392.73	577.25	1654741.45	14302656.95	39°23'11.328"N	80°56'57.485"W	698.18	55.771	1.85	1.62	2.17	
3465.00	24.090	59.230	3350.93	-166.49	411.81	608.22	1654772.40	14302676.03	39°23'11.517"N	80°56'57.091"W	734.52	55.899	1.10	-0.74	1.97	
3553.00	23.560	54.620	3431.44	-173.91	431.19	637.99	1654802.16	14302695.39	39°23'11.708"N	80°56'56.712"W	770.03	55.947	2.20	-0.60	-5.24	
3641.00	23.560	54.850	3512.11	-182.58	451.49	666.71	1654830.87	14302715.69	39°23'11.909"N	80°56'56.346"W	805.20	55.894	0.10	0.00	0.26	
3730.00	23.210	58.790	3593.80	-190.04	470.82	696.26	1654860.41	14302735.02	39°23'12.100"N	80°56'55.969"W	840.50	55.933	1.80	-0.39	4.43	
3818.00	23.500	61.510	3674.59	-195.40	488.18	726.51	1654890.65	14302752.36	39°23'12.271"N	80°56'55.584"W	875.29	56.101	1.27	0.33	3.09	
3907.00	23.060	58.710	3756.34	-200.83	505.70	757.01	1654921.14	14302769.88	39°23'12.444"N	80°56'55.195"W	910.39	56.256	1.33	-0.47	-3.15	
3995.00	23.590	54.290	3837.15	-208.38	524.94	786.05	1654950.17	14302789.11	39°23'12.634"N	80°56'54.825"W	945.22	56.264	2.07	0.58	-5.02	
4083.00	23.490	56.090	3917.83	-216.77	545.00	814.90	1654979.01	14302809.17	39°23'12.832"N	80°56'54.458"W	980.36	56.226	0.82	-0.11	2.05	
4171.00	22.720	60.360	3998.78	-223.24	563.19	844.23	1655008.32	14302827.35	39°23'13.012"N	80°56'54.084"W	1014.85	56.292	2.09	-0.87	4.85	
4259.00	23.930	60.180	4079.58	-228.53	580.47	874.49	1655038.57	14302844.62	39°23'13.182"N	80°56'53.698"W	1049.61	56.424	1.38	1.38	-0.20	
4348.00	24.640	60.810	4160.71	-233.94	598.50	906.35	1655070.41	14302862.64	39°23'13.360"N	80°56'53.293"W	1086.12	56.562	0.85	0.80	0.71	
4436.00	25.430	58.110	4240.44	-240.12	617.43	938.48	1655102.46	14302881.56	39°23'13.547"N	80°56'52.884"W	1123.31	56.657	1.58	0.90	-3.07	
4524.00	23.500	55.290	4320.54	-247.85	637.40	968.87	1655132.91	14302901.53	39°23'13.744"N	80°56'52.496"W	1159.74	56.660	2.56	-2.19	-3.20	
4612.00	21.550	56.270	4401.82	-255.57	656.37	996.74	1655160.77	14302920.49	39°23'13.932"N	80°56'52.141"W	1193.44	56.634	2.26	-2.22	1.11	
4700.00	20.520	56.790	4483.96	-262.40	673.79	1023.09	1655187.10	14302937.90	39°23'14.104"N	80°56'51.805"W	1225.03	56.632	1.19	-1.17	0.59	



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'
Page 4 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION	Well	McKim Unit 2H
Area	Tyler County, WV	Wellbore	McKim Unit 2H AWB
Field	Tyler		
Facility	McKim Pad		

WELLPATH DATA (236 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
4788.00	21.310	54.900	4566.16	-269.55	691.43	1049.07	1655213.08	14302955.54	39°23'14.278"N	80°56'51.474"W	1256.44	56.612	1.18	0.90	-2.15	
4877.00	22.440	52.750	4648.75	-278.25	711.01	1075.83	1655239.82	14302975.11	39°23'14.471"N	80°56'51.133"W	1289.55	56.539	1.56	1.27	-2.42	
4965.00	21.430	54.280	4730.38	-287.03	730.57	1102.25	1655266.24	14302994.66	39°23'14.664"N	80°56'50.797"W	1322.38	56.464	1.32	-1.15	1.74	
5053.00	21.420	55.210	4812.30	-294.90	749.12	1128.50	1655292.47	14303013.20	39°23'14.848"N	80°56'50.462"W	1354.51	56.423	0.39	-0.01	1.06	
5141.00	22.200	54.630	4894.00	-302.90	767.91	1155.25	1655319.22	14303031.99	39°23'15.033"N	80°56'50.121"W	1387.19	56.387	0.92	0.88	-0.66	
5229.00	23.070	55.180	4975.22	-311.15	787.38	1182.96	1655346.92	14303051.45	39°23'15.228"N	80°56'49.768"W	1421.04	56.352	1.02	0.99	0.63	
5317.00	22.180	50.710	5056.45	-320.48	807.75	1209.97	1655373.92	14303071.81	39°23'15.427"N	80°56'49.424"W	1454.82	56.274	2.20	-1.01	-5.08	
5405.00	22.990	53.270	5137.71	-330.35	828.54	1236.60	1655400.54	14303092.59	39°23'15.632"N	80°56'49.085"W	1488.52	56.177	1.45	0.92	2.91	
5494.00	23.150	56.790	5219.60	-338.17	848.01	1265.50	1655429.42	14303112.05	39°23'15.824"N	80°56'48.716"W	1523.35	56.174	2.44	0.18	6.20	
5582.00	23.110	59.120	5300.52	-344.20	865.83	1295.12	1655459.03	14303129.87	39°23'16.000"N	80°56'48.339"W	1557.88	56.236	0.15	-0.05	0.38	
5670.00	24.260	56.130	5381.11	-351.19	884.77	1324.95	1655488.85	14303148.80	39°23'16.187"N	80°56'47.959"W	1593.21	56.266	1.89	1.31	-3.40	
5759.00	22.920	54.600	5462.68	-359.57	905.00	1354.26	1655518.15	14303169.02	39°23'16.387"N	80°56'47.585"W	1628.82	56.247	1.66	-1.51	-1.72	
5847.00	22.090	53.320	5543.97	-368.30	924.81	1381.50	1655545.37	14303188.83	39°23'16.583"N	80°56'47.238"W	1662.48	56.201	1.10	-0.94	-1.45	
5891.00	22.300	53.220	5584.71	-372.81	934.76	1394.82	1655578.52	14303208.76	39°23'16.681"N	80°56'47.069"W	1679.08	56.172	0.48	0.48	-0.23	AT Curve <-8-1/2"> (5891) (5956'-1.9656')
5956.00	22.400	53.530	5644.83	-379.47	949.50	1414.66	1655593.27	14303224.05	39°23'16.827"N	80°56'46.816"W	1703.76	56.131	0.24	0.15	0.48	
6004.00	22.010	55.330	5689.27	-384.03	960.05	1429.41	1655593.27	14303224.05	39°23'16.931"N	80°56'46.628"W	1721.89	56.113	1.63	-0.81	3.75	
6051.00	21.650	57.350	5732.90	-387.86	969.74	1443.95	1655607.80	14303233.73	39°23'17.026"N	80°56'46.443"W	1739.37	56.115	1.77	-0.77	4.30	
6098.00	20.010	66.320	5776.84	-389.99	977.65	1458.62	1655622.47	14303241.64	39°23'17.104"N	80°56'46.256"W	1755.96	56.168	7.62	-3.48	19.09	
6145.00	18.130	79.390	5821.28	-389.05	982.23	1473.18	1655637.02	14303246.22	39°23'17.150"N	80°56'46.070"W	1770.61	56.307	9.90	-4.00	27.81	
6193.00	19.130	90.380	5866.78	-384.83	983.55	1488.39	1655662.23	14303247.54	39°23'17.163"N	80°56'45.877"W	1784.01	56.543	7.59	2.08	22.90	
6240.00	20.300	98.580	5911.03	-378.00	982.28	1504.16	1655667.99	14303246.27	39°23'17.150"N	80°56'45.676"W	1796.49	56.854	6.38	2.49	17.45	
6287.00	22.190	106.120	5954.84	-368.82	978.60	1520.75	1655684.57	14303242.59	39°23'17.114"N	80°56'45.464"W	1808.41	57.239	7.06	4.02	16.04	
6334.00	24.910	113.200	5997.93	-356.35	972.24	1538.38	1655702.20	14303236.23	39°23'17.051"N	80°56'45.240"W	1819.85	57.708	8.34	5.78	15.06	
6382.00	26.800	117.650	6041.17	-341.24	963.27	1557.20	1655721.00	14303227.26	39°23'16.962"N	80°56'45.000"W	1831.05	58.259	5.35	3.52	9.27	
6430.00	28.590	120.600	6083.71	-324.17	952.43	1576.60	1655740.40	14303216.43	39°23'16.855"N	80°56'44.753"W	1841.96	58.864	5.03	4.15	6.15	
6477.00	32.160	125.830	6124.25	-304.87	939.38	1596.44	1655760.22	14303203.38	39°23'16.725"N	80°56'44.501"W	1852.31	59.526	9.45	7.60	11.73	
6525.00	34.660	131.650	6164.33	-282.05	922.82	1617.00	1655780.78	14303186.83	39°23'16.562"N	80°56'44.239"W	1861.80	60.287	8.46	5.21	12.12	
6573.00	37.850	135.700	6203.04	-256.39	903.20	1637.49	1655801.26	14303167.22	39°23'16.368"N	80°56'43.978"W	1870.07	61.120	8.31	6.65	8.44	
6620.00	42.230	138.170	6239.01	-228.37	881.10	1658.11	1655821.87	14303145.13	39°23'16.149"N	80°56'43.716"W	1877.68	62.014	9.91	9.32	5.26	
6632.00†	43.024	138.833	6247.84	-220.76	875.02	1663.49	1655827.25	14303139.05	39°23'16.089"N	80°56'43.647"W	1879.59	62.255	7.60	6.62	5.53	Sycamore 6632MD/6248TVD



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'
Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION	Well	McKim Unit 2H
Area	Tyler County, WV	Wellbore	McKim Unit 2H AWB
Field	Tyler		
Facility	McKim Pad		

WELLPATH DATA (236 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
6667.00	45.360	140.660	6272.94	-197.72	856.39	1679.25	1655843.00	14303120.43	39°23'15.905"N	80°56'43.447"W	1885.02	62.979	7.60	6.67	5.22	
6716.00	49.320	140.740	6306.14	-163.52	828.51	1702.07	1655865.81	14303092.56	39°23'15.629"N	80°56'43.156"W	1893.01	64.045	8.08	8.08	0.16	
6762.00	53.450	142.070	6334.84	-129.26	800.42	1724.47	1655888.21	14303064.48	39°23'15.351"N	80°56'42.871"W	1901.18	65.101	9.26	8.98	2.89	
6787.00†	55.703	142.941	6349.33	-109.73	784.26	1736.87	1655900.60	14303048.33	39°23'15.191"N	80°56'42.713"W	1905.72	65.699	9.45	9.01	3.48	Middlesex: 6787MD / 6349TVD
6809.00	57.690	143.670	6361.41	-92.03	769.52	1747.86	1655911.58	14303033.59	39°23'15.046"N	80°56'42.574"W	1909.75	66.238	9.45	9.03	3.31	
6857.00	61.470	146.190	6385.71	-51.89	735.64	1771.62	1655935.34	14302899.73	39°23'14.711"N	80°56'42.271"W	1918.28	67.450	9.08	7.88	5.25	
6907.00	64.890	148.000	6408.27	-31.23	698.18	1795.84	1655959.55	14302862.28	39°23'14.340"N	80°56'41.963"W	1926.79	68.755	7.56	6.84	3.62	
6951.00	67.980	149.900	6426.41	31.23	663.84	1816.51	1655980.21	14302827.95	39°23'14.001"N	80°56'41.700"W	1934.01	69.925	5.22	3.43	4.32	
6990.00†	67.681	151.781	6441.63	66.78	632.48	1834.01	1655997.70	14302896.61	39°23'13.691"N	80°56'41.477"W	1940.00	70.973	5.52	3.32	4.77	Burket: 6990MD / 6442TVD
6999.00	67.980	152.210	6445.02	75.05	625.12	1837.92	1656001.61	14302889.25	39°23'13.618"N	80°56'41.428"W	1941.32	71.216	5.52	3.32	4.77	
7046.00	71.500	158.270	6461.31	119.02	585.10	1856.35	1656020.03	14302840.25	39°23'13.222"N	80°56'41.193"W	1946.37	72.506	14.22	7.49	12.89	
7056.00†	72.193	158.627	6464.43	128.52	576.26	1859.84	1656023.52	14302840.41	39°23'13.135"N	80°56'41.149"W	1947.07	72.785	7.71	6.93	3.57	Tully: 7056MD / 6464TVD
7094.00	74.830	159.960	6475.21	164.95	542.18	1872.72	1656036.40	14302806.35	39°23'12.798"N	80°56'40.985"W	1949.62	73.853	7.71	6.94	3.51	
7109.00†	75.847	160.052	6479.01	179.46	528.54	1877.68	1656041.36	14302792.72	39°23'12.663"N	80°56'40.922"W	1950.65	74.279	6.81	6.78	0.61	POE Marcellus: 7109MD / 6479TVD
7140.00	77.950	160.240	6486.03	209.65	500.15	1887.93	1656051.61	14302764.33	39°23'12.382"N	80°56'40.792"W	1953.06	75.162	6.81	6.78	0.61	
7190.00	80.700	159.890	6495.29	258.77	453.96	1904.69	1656068.35	14302718.16	39°23'11.926"N	80°56'40.579"W	1958.04	76.594	5.54	5.50	-0.70	
7235.00	80.540	160.450	6502.63	303.16	412.20	1919.75	1656083.41	14302676.41	39°23'11.513"N	80°56'40.387"W	1963.50	77.882	1.28	-0.36	1.24	
7276.00	82.350	159.870	6508.73	343.69	374.06	1933.51	1656097.16	14302638.29	39°23'11.136"N	80°56'40.212"W	1969.36	79.051	4.63	4.41	-1.41	
7330.00	87.410	160.390	6513.54	397.45	323.50	1951.78	1656115.43	14302587.75	39°23'10.636"N	80°56'39.980"W	1978.41	80.589	9.42	9.37	0.98	
7425.00	89.820	160.940	6515.84	492.37	233.89	1983.22	1656146.86	14302498.17	39°23'09.750"N	80°56'39.580"W	1996.97	83.274	2.60	2.54	0.58	
7520.00	90.030	160.470	6515.97	587.33	144.22	2014.61	1656178.23	14302408.55	39°23'08.864"N	80°56'39.181"W	2019.77	85.905	0.54	0.22	-0.49	
7614.00	89.820	159.120	6516.09	681.32	56.01	2047.08	1656210.69	14302320.37	39°23'07.992"N	80°56'38.768"W	2047.84	88.433	1.45	-0.22	-1.44	
7708.00	89.850	157.960	6516.36	775.31	-31.47	2081.47	1656245.06	14302232.92	39°23'07.127"N	80°56'38.331"W	2081.71	90.866	1.23	0.03	-1.23	
7803.00	89.780	157.840	6516.67	870.30	-119.49	2117.21	1656280.79	14302144.94	39°23'06.257"N	80°56'37.876"W	2120.58	93.230	0.15	-0.07	-0.13	
7898.00	89.660	156.810	6517.13	965.25	-207.15	2153.83	1656317.40	14302057.32	39°23'05.390"N	80°56'37.411"W	2163.77	95.494	1.09	-0.13	-1.08	
7993.00	89.540	155.780	6517.79	1060.14	-294.13	2192.02	1656355.57	14301970.37	39°23'04.530"N	80°56'36.925"W	2211.67	97.642	1.09	-0.13	-1.08	
8089.00	89.820	157.340	6518.33	1156.05	-382.20	2230.21	1656393.74	14301882.33	39°23'03.660"N	80°56'36.439"W	2262.72	99.725	1.65	0.29	1.62	
8183.00	89.820	159.190	6518.62	1250.04	-469.51	2265.02	1656428.54	14301795.06	39°23'02.796"N	80°56'35.997"W	2313.17	101.711	1.97	0.00	1.97	
8278.00	89.940	162.790	6518.82	1344.97	-559.32	2295.96	1656459.46	14301705.29	39°23'01.909"N	80°56'35.604"W	2363.10	103.691	3.79	0.13	3.79	
8374.00	89.880	164.520	6518.97	1440.65	-651.43	2322.97	1656486.47	14301613.21	39°23'00.998"N	80°56'35.260"W	2412.58	105.665	1.80	-0.06	1.80	



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'
Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

WELLPATH DATA (236 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (JUS ft)	Grid North (JUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
8463.00	89.540	165.470	6519.46	1535.12	-743.19	2347.57	1656511.05	14301521.49	39°23'00.09"N	80°56'34.948"W	2462.40	107.567	1.06	-0.36	1.00	
8563.00	89.720	163.740	6520.06	1628.67	-833.82	2372.52	1656536.00	14301430.90	39°22'59.195"N	80°56'34.631"W	2514.77	109.364	1.85	0.19	-1.84	
8658.00	89.820	163.230	6520.44	1723.38	-924.89	2399.52	1656562.99	14301339.86	39°22'58.295"N	80°56'34.287"W	2571.60	111.079	0.55	0.11	-0.54	
8753.00	90.150	163.060	6520.47	1818.13	-1015.81	2427.07	1656590.52	14301248.98	39°22'57.396"N	80°56'33.937"W	2631.07	112.711	0.39	0.35	-0.18	
8847.00	89.720	159.130	6520.58	1912.05	-1104.73	2457.52	1656620.96	14301160.10	39°22'56.517"N	80°56'33.550"W	2694.40	114.205	4.21	-0.46	-4.18	
8942.00	89.970	157.100	6520.83	2007.03	-1192.87	2492.93	1656656.36	14301071.99	39°22'55.646"N	80°56'33.100"W	2763.63	115.571	2.15	0.26	-2.14	
9036.00	89.970	152.960	6520.88	2100.78	-1278.07	2532.60	1656696.01	14300986.83	39°22'54.803"N	80°56'32.596"W	2836.82	116.778	4.40	0.00	-4.40	
9131.00	89.910	149.150	6520.98	2194.85	-1361.19	2578.57	1656741.96	14300903.74	39°22'53.982"N	80°56'32.011"W	2915.79	117.829	4.01	-0.06	-4.01	
9225.00	89.230	148.490	6521.69	2287.37	-1441.60	2627.23	1656790.61	14300823.36	39°22'51.537"N	80°56'31.392"W	2996.76	118.754	1.01	-0.72	-0.70	
9321.00	89.780	153.320	6522.52	2382.38	-1525.46	2673.90	1656837.25	14300739.53	39°22'52.357"N	80°56'30.798"W	3078.44	119.705	5.06	0.57	5.03	
9415.00	89.910	150.650	6522.77	2475.67	-1608.44	2718.05	1656881.38	14300656.59	39°22'51.537"N	80°56'30.237"W	3158.30	120.615	2.84	0.14	-2.84	
9510.00	89.480	151.700	6523.28	2569.78	-1691.67	2763.85	1656927.17	14300573.39	39°22'50.714"N	80°56'29.654"W	3240.46	121.470	1.19	-0.43	1.11	
9604.00	89.880	155.880	6523.80	2663.37	-1775.98	2805.35	1656968.66	14300489.11	39°22'49.881"N	80°56'29.126"W	3320.26	122.337	4.47	0.43	4.45	
9699.00	90.520	162.380	6523.47	2758.32	-1864.70	2839.18	1657002.47	14300400.43	39°22'49.003"N	80°56'28.696"W	3396.77	123.296	6.88	0.67	6.84	
9793.00	90.030	167.420	6523.02	2851.79	-1955.42	2863.66	1657026.94	14300309.74	39°22'48.107"N	80°56'28.385"W	3467.60	124.327	5.39	-0.52	5.36	
9888.00	89.170	166.280	6523.68	2945.89	-2047.93	2885.27	1657048.54	14300217.28	39°22'47.192"N	80°56'28.111"W	3538.19	125.367	1.50	-0.91	-1.20	
9982.00	90.150	160.500	6524.24	3039.58	-2137.97	2912.13	1657075.39	14300127.28	39°22'46.302"N	80°56'27.769"W	3612.67	126.285	6.24	1.04	-6.15	
10076.00	89.940	162.980	6524.17	3133.46	-2227.23	2941.58	1657104.83	14300038.05	39°22'45.420"N	80°56'27.395"W	3689.64	127.131	2.65	-0.22	2.64	
10171.00	89.970	164.860	6524.24	3228.11	-2318.50	2967.89	1657131.13	14299946.81	39°22'44.517"N	80°56'27.061"W	3766.14	127.997	1.98	0.03	1.98	
10265.00	90.030	164.340	6524.24	3321.66	-2409.13	2992.85	1657156.08	14299856.22	39°22'43.622"N	80°56'26.744"W	3842.01	128.833	0.56	0.06	-0.55	
10360.00	90.150	161.900	6524.09	3416.41	-2500.03	3020.44	1657183.65	14299765.36	39°22'42.723"N	80°56'26.393"W	3920.86	129.615	2.57	0.13	-2.57	
10454.00	90.090	159.810	6523.89	3510.35	-2588.82	3051.26	1657214.47	14299676.60	39°22'41.941"N	80°56'26.001"W	4001.53	130.313	2.22	-0.06	-2.22	
10549.00	90.090	158.200	6523.75	3605.35	-2677.51	3085.30	1657248.49	14299587.94	39°22'41.068"N	80°56'25.569"W	4085.11	130.952	1.69	0.00	-1.69	
10643.00	90.030	156.370	6523.65	3699.30	-2764.22	3121.60	1657284.77	14299501.27	39°22'40.111"N	80°56'25.107"W	4169.56	131.525	1.95	-0.06	-1.95	
10738.00	90.150	155.600	6523.50	3794.17	-2851.00	3160.26	1657323.42	14299414.53	39°22'39.253"N	80°56'24.615"W	4256.22	132.055	0.82	0.13	-0.81	
10833.00	89.880	155.680	6523.47	3889.01	-2937.54	3199.44	1657362.59	14299328.02	39°22'38.398"N	80°56'24.117"W	4343.45	132.556	0.30	-0.28	0.08	
10927.00	90.000	153.760	6523.57	3982.74	-3022.53	3239.58	1657402.71	14299243.07	39°22'37.557"N	80°56'23.607"W	4430.64	133.015	2.05	0.13	-2.04	
11022.00	90.000	154.070	6523.57	4077.36	-3107.86	3281.35	1657444.47	14299157.78	39°22'36.714"N	80°56'23.076"W	4519.52	133.445	0.33	0.00	0.33	
11117.00	90.030	155.020	6523.55	4172.08	-3193.63	3322.18	1657485.28	14299072.03	39°22'35.866"N	80°56'22.556"W	4608.27	133.870	1.00	0.03	1.00	
11212.00	89.540	157.040	6523.90	4266.94	-3280.43	3360.78	1657523.86	14298985.27	39°22'35.008"N	80°56'22.066"W	4696.39	134.307	2.19	-0.52	2.13	



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

WELLPATH DATA (236 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [JUS, ft]	Grid North [JUS, ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
11307.00	89.630	158.920	6524.59	4361.92	-3368.50	3396.39	1657559.46	1429899.24	39°22'34.137"N	80°56'21.613"W	4783.54	134.764	1.98	0.09	1.98	
11402.00	89.600	158.310	6525.23	4456.92	-3456.95	3431.03	1657594.08	1429880.82	39°22'33.262"N	80°56'21.173"W	4870.58	135.216	0.64	-0.03	-0.64	
11496.00	89.690	159.190	6525.81	4550.91	-3544.56	3465.10	1657628.14	1429871.25	39°22'32.396"N	80°56'20.739"W	4956.90	135.649	0.94	0.10	0.94	
11591.00	89.480	157.540	6526.50	4645.90	-3632.86	3500.12	1657663.15	1429863.98	39°22'31.523"N	80°56'20.294"W	5044.66	136.066	1.75	-0.22	-1.74	
11686.00	89.420	161.330	6527.41	4740.88	-3721.79	3533.49	1657696.50	1429854.09	39°22'30.644"N	80°56'19.870"W	5131.98	136.487	3.99	-0.06	3.99	
11780.00	89.600	160.910	6528.22	4834.81	-3810.73	3563.90	1657726.90	1429845.19	39°22'29.765"N	80°56'19.484"W	5217.57	136.917	0.49	0.18	-0.45	
11875.00	89.510	162.170	6528.95	4929.71	-3900.83	3593.98	1657756.97	1429836.52	39°22'28.874"N	80°56'19.101"W	5304.08	137.344	1.33	-0.09	1.33	
11970.00	89.720	162.010	6529.59	5024.57	-3991.23	3623.20	1657786.17	1429827.76	39°22'27.981"N	80°56'18.730"W	5390.50	137.767	0.28	0.22	-0.17	
12064.00	89.600	161.450	6530.15	5118.46	-4080.49	3652.66	1657815.63	1429818.53	39°22'27.098"N	80°56'18.356"W	5476.53	138.167	0.61	-0.13	-0.60	
12159.00	89.690	162.920	6530.74	5213.31	-4170.93	3681.73	1657844.68	1429809.13	39°22'26.204"N	80°56'17.986"W	5563.43	138.565	1.55	0.09	1.55	
12253.00	89.630	165.070	6531.30	5306.95	-4261.28	3707.64	1657870.58	1429800.82	39°22'25.311"N	80°56'17.657"W	5648.46	138.974	2.29	-0.06	2.29	
12348.00	89.510	164.060	6532.01	5401.49	-4352.85	3732.93	1657895.86	14297913.28	39°22'24.406"N	80°56'17.336"W	5734.28	139.384	1.07	-0.13	-1.06	
12442.00	89.820	164.570	6532.56	5495.09	-4443.35	3758.34	1657921.26	14297822.82	39°22'23.511"N	80°56'17.013"W	5819.66	139.774	0.63	0.33	0.54	
12538.00	90.030	163.130	6532.68	5590.74	-4535.55	3785.04	1657947.95	14297730.65	39°22'22.600"N	80°56'16.674"W	5907.43	140.154	1.52	0.22	-1.50	
12633.00	89.940	160.260	6532.71	5685.63	-4625.74	3814.87	1657977.77	14297640.50	39°22'21.708"N	80°56'16.295"W	5995.89	140.487	3.02	-0.09	-3.02	
12727.00	89.880	157.260	6532.86	5779.62	-4713.34	3848.92	1658011.81	14297552.93	39°22'20.842"N	80°56'15.962"W	6085.21	140.765	3.19	-0.06	-3.19	
12821.00	89.940	157.190	6533.00	5873.57	-4800.01	3885.31	1658048.18	14297466.30	39°22'19.985"N	80°56'15.399"W	6175.42	141.012	0.10	0.06	-0.07	
12916.00	90.000	158.890	6533.05	5968.55	-4886.12	3920.84	1658083.69	14297378.23	39°22'19.114"N	80°56'14.948"W	6266.31	141.266	1.79	0.08	1.79	
13011.00	90.180	162.380	6532.91	6063.50	-4977.73	3952.33	1658115.17	14297288.65	39°22'18.228"N	80°56'14.548"W	6356.00	141.550	3.68	0.19	3.67	
13105.00	89.940	161.090	6532.81	6157.39	-5066.99	3981.79	1658144.62	14297199.43	39°22'17.346"N	80°56'14.173"W	6444.31	141.839	1.40	-0.26	-1.37	
13200.00	90.550	158.300	6532.40	6252.37	-5156.08	4014.76	1658177.57	14297110.38	39°22'16.465"N	80°56'13.754"W	6534.78	142.094	3.01	0.64	-2.94	
13294.00	90.090	154.520	6531.88	6346.26	-5242.21	4052.37	1658215.17	14297024.28	39°22'15.614"N	80°56'13.276"W	6625.89	142.295	4.05	-0.49	-4.02	
13389.00	90.340	154.800	6531.52	6440.99	-5328.06	4093.02	1658255.81	14296938.46	39°22'14.765"N	80°56'12.759"W	6718.71	142.468	0.40	0.28	0.28	
13483.00	90.460	153.500	6530.86	6534.64	-5412.65	4134.01	1658296.78	14296853.90	39°22'13.928"N	80°56'12.238"W	6810.79	142.629	1.39	0.13	-1.38	
13578.00	90.580	157.890	6530.00	6629.46	-5499.21	4173.10	1658335.85	14296767.38	39°22'13.073"N	80°56'11.741"W	6903.34	142.807	4.62	0.13	4.62	
13672.00	89.780	155.930	6529.70	6723.39	-5585.67	4209.96	1658372.70	14296680.95	39°22'12.218"N	80°56'11.273"W	6994.54	142.994	2.25	-0.85	-2.09	
13767.00	89.910	155.350	6529.96	6818.23	-5672.22	4249.15	1658411.87	14296594.45	39°22'11.362"N	80°56'10.774"W	7087.26	143.163	0.63	0.14	-0.61	
13861.00	89.820	154.950	6530.18	6912.01	-5757.51	4288.65	1658451.35	14296509.18	39°22'10.519"N	80°56'10.272"W	7179.24	143.318	0.44	-0.10	-0.43	
13955.00	89.940	155.600	6530.38	7005.81	-5842.89	4327.96	1658490.66	14296423.84	39°22'09.675"N	80°56'09.772"W	7271.22	143.472	0.70	0.13	0.68	
14051.00	89.820	156.120	6530.58	7101.67	-5930.50	4367.23	1658529.90	14296336.27	39°22'08.809"N	80°56'09.273"W	7365.02	143.632	0.56	-0.12	0.54	



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'
 Page 8 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

WELLPATH DATA (236 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
14146.00	89.880	157.670	6530.83	7196.60	-6017.87	4404.50	1658567.16	14296248.93	39°22'07.945"N	80°56'08.799"W	7457.51	143.799	1.63	0.06	1.63	
14240.00	90.430	158.680	6530.58	7290.59	-6105.14	4439.45	1658660.21	14296161.70	39°22'07.082"N	80°56'08.355"W	7548.60	143.977	1.22	0.58	1.07	
14335.00	89.450	160.860	6530.68	7385.58	-6194.27	4472.30	1658634.93	14296072.60	39°22'06.201"N	80°56'07.938"W	7640.05	144.170	2.52	-1.03	2.29	
14429.00	89.450	160.270	6531.58	7479.54	-6282.91	4503.57	1658666.19	14295984.00	39°22'05.325"N	80°56'07.540"W	7730.27	144.367	0.63	0.00	-0.63	
14524.00	89.290	158.960	6532.62	7574.52	-6371.95	4536.66	1658699.27	14295894.99	39°22'04.444"N	80°56'07.120"W	7821.96	144.550	1.39	-0.17	-1.38	
14619.00	90.060	159.240	6533.16	7669.52	-6460.70	4570.55	1658733.14	14295808.28	39°22'03.567"N	80°56'06.689"W	7913.95	144.723	0.86	0.81	0.29	
14713.00	89.380	158.190	6533.62	7763.52	-6548.28	4604.67	1658767.25	14295718.73	39°22'02.701"N	80°56'06.256"W	8005.19	144.886	1.33	-0.72	-1.12	
14808.00	89.380	158.750	6534.65	7858.51	-6636.65	4639.53	1658802.10	14295630.40	39°22'01.827"N	80°56'05.812"W	8097.55	145.043	0.59	0.00	0.59	
14904.00	89.450	158.940	6535.63	7954.50	-6726.17	4674.18	1658836.73	14295540.91	39°22'00.942"N	80°56'05.372"W	8190.81	145.204	0.21	0.07	0.20	
14999.00	89.450	160.590	6536.54	8049.48	-6815.30	4707.03	1658869.57	14295451.82	39°22'00.061"N	80°56'04.955"W	8282.79	145.369	1.74	0.00	1.74	
15094.00	89.820	161.650	6537.15	8144.42	-6905.19	4737.77	1658900.30	14295361.97	39°21'59.172"N	80°56'04.564"W	8374.25	145.545	1.18	0.38	1.12	
15190.00	89.750	162.470	6537.51	8240.28	-6996.52	4767.34	1658929.86	14295270.67	39°21'58.270"N	80°56'04.188"W	8466.34	145.730	0.86	-0.07	0.85	
15285.00	90.000	163.300	6537.71	8335.06	-7087.31	4795.30	1658957.80	14295179.92	39°21'57.372"N	80°56'03.833"W	8557.15	145.918	0.91	0.26	0.87	
15379.00	89.880	166.470	6537.81	8428.55	-7178.05	4819.81	1658982.30	14295089.22	39°21'56.475"N	80°56'03.522"W	8646.09	146.120	3.37	-0.13	3.37	
15474.00	89.380	160.920	6538.43	8523.19	-7269.19	4846.47	1659008.95	14294998.11	39°21'55.574"N	80°56'03.184"W	8736.67	146.308	5.87	-0.53	-5.84	
15568.00	89.850	155.060	6539.06	8617.13	-7356.30	4881.68	1659044.15	14294911.04	39°21'54.713"N	80°56'02.736"W	8828.70	146.517	6.25	0.50	-6.23	
15663.00	89.970	153.830	6539.21	8711.83	-7442.00	4922.66	1659085.11	14294825.37	39°21'53.866"N	80°56'02.215"W	8922.78	146.577	1.30	0.13	-1.29	
16041.00	90.090	160.450	6539.42	9089.42	-7790.12	5069.42	1659231.82	14294737.39	39°21'50.424"N	80°56'00.350"W	9294.36	146.946	1.75	0.03	1.75	
16135.00	90.180	162.150	6538.79	9183.34	-7879.16	5099.56	1659261.94	14294648.39	39°21'49.544"N	80°55'59.967"W	9385.45	147.088	1.81	0.10	1.81	
16420.00	90.340	157.450	6537.49	9468.23	-8146.55	5197.94	1659360.28	14294561.11	39°21'46.900"N	80°55'58.717"W	9663.58	147.460	1.65	0.06	-1.65	
16514.00	90.060	153.860	6537.17	9562.06	-8232.17	5236.68	1659399.01	14294473.52	39°21'46.054"N	80°55'58.224"W	9756.62	147.539	3.83	-0.30	-3.82	
16609.00	90.150	154.190	6536.99	9656.70	-8317.58	5278.29	1659440.60	14294386.42	39°21'45.209"N	80°55'57.179"W	9851.01	147.601	0.36	0.09	0.35	
16799.00	90.120	157.850	6536.77	9846.33	-8490.56	5356.81	1659519.09	14294297.24	39°21'43.499"N	80°55'56.697"W	9945.30	147.668	1.02	-0.16	1.01	
16895.00	90.280	158.080	6536.43	9942.31	-8679.54	5392.31	1659555.09	14294208.29	39°21'42.619"N	80°55'56.240"W	10039.17	147.752	2.84	0.13	2.84	
16989.00	90.030	160.180	6536.18	10036.30	-8867.37	5426.31	1659588.56	14294120.49	39°21'41.751"N	80°55'55.814"W	10133.67	147.848	0.29	0.17	0.24	
17084.00	90.030	161.430	6536.13	10131.26	-8757.09	5457.55	1659619.79	14294031.81	39°21'40.864"N	80°55'55.417"W	10225.86	147.951	2.25	-0.27	2.23	
17178.00	90.060	163.860	6536.05	10225.06	-8846.80	5485.59	1659647.81	14293942.14	39°21'39.977"N	80°55'55.061"W	10318.50	148.068	1.32	0.00	1.32	
17273.00	90.090	164.950	6535.93	10319.63	-8938.30	5511.13	1659673.34	14293853.67	39°21'39.072"N	80°55'54.737"W	10409.49	148.198	2.59	0.03	2.59	
17369.00	90.180	165.970	6535.70	10415.02	-9031.23	5535.23	1659697.43	14293765.78	39°21'38.154"N	80°55'54.431"W	10500.75	148.343	1.15	0.03	1.15	
											10592.53	148.496	1.07	0.08	1.06	



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

WELLPATH DATA (236 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
17463.00	89.880	168.920	6535.65	10507.99	-9122.97	5555.66	1659717.85	14293145.08	39°21'37.247"N	80°55'54.172"W	10681.47	148.660	3.15	-0.32	3.14	
17558.00	90.000	170.850	6535.75	10601.28	-9216.49	5572.34	1659734.53	14293051.60	39°21'36.322"N	80°55'53.960"W	10770.08	148.843	2.04	0.13	2.03	
17652.00	89.850	168.640	6535.88	10693.63	-9308.98	5589.07	1659751.26	14292959.14	39°21'35.408"N	80°55'53.748"W	10857.94	149.020	2.36	-0.16	-2.35	
17747.00	89.850	161.320	6536.13	10788.04	-9400.67	5613.88	1659775.85	14292867.49	39°21'34.502"N	80°55'53.436"W	10949.25	149.156	7.71	0.00	-7.71	
17842.00	89.820	157.420	6536.40	10883.02	-9489.56	5647.14	1659809.30	14292778.63	39°21'33.623"N	80°55'53.011"W	11042.74	149.244	4.11	-0.03	-4.11	
17937.00	89.850	153.000	6536.67	10977.79	-9575.79	5686.97	1659849.11	14292692.44	39°21'32.770"N	80°55'52.504"W	11137.20	149.294	4.65	0.03	-4.65	
18032.00	90.090	150.320	6536.72	11072.01	-9659.39	5732.06	1659894.18	14292608.87	39°21'31.944"N	80°55'51.931"W	11232.11	149.314	2.83	0.25	-2.82	
18126.00	89.880	152.400	6536.75	11165.17	-9741.89	5777.11	1659939.22	14292526.41	39°21'31.128"N	80°55'51.358"W	11326.05	149.331	2.22	-0.22	2.21	
18220.00	89.940	155.000	6536.90	11258.76	-9826.15	5818.75	1659980.85	14292442.18	39°21'30.295"N	80°55'50.829"W	11419.77	149.367	2.77	0.06	2.77	
18314.00	89.970	154.720	6536.97	11352.51	-9911.24	5858.69	1660020.76	14292357.12	39°21'29.454"N	80°55'50.322"W	11513.34	149.412	0.30	0.03	-0.30	
18409.00	90.090	155.830	6536.92	11447.31	-9997.53	5898.42	1660060.48	14292270.87	39°21'28.600"N	80°55'49.816"W	11607.85	149.460	1.18	0.13	1.17	
18503.00	90.060	159.300	6536.94	11541.22	-10083.80	5935.75	1660097.80	14292184.63	39°21'27.748"N	80°55'49.342"W	11701.12	149.517	1.65	-0.19	1.64	
18597.00	90.030	160.640	6536.87	11635.21	-10171.18	5970.46	1660132.49	14292097.31	39°21'26.884"N	80°55'48.901"W	11794.01	149.587	2.06	0.16	2.05	
18693.00	90.030	160.640	6536.87	11731.20	-10261.35	6003.34	1660163.35	14292007.16	39°21'25.992"N	80°55'48.483"W	11888.45	149.671	1.40	-0.03	1.40	
18788.00	90.030	161.240	6536.82	11826.14	-10351.14	6034.36	1660196.36	14291917.40	39°21'25.105"N	80°55'48.089"W	11981.63	149.759	0.66	0.00	0.63	
18883.00	90.060	160.710	6536.77	11921.08	-10440.95	6065.33	1660227.32	14291827.63	39°21'24.217"N	80°55'47.696"W	12074.83	149.847	0.56	0.00	-0.56	
18978.00	90.060	160.890	6536.69	12016.04	-10530.66	6096.57	1660258.55	14291737.95	39°21'23.330"N	80°55'47.299"W	12168.12	149.932	0.19	0.03	0.19	
19072.00	90.060	159.140	6536.60	12110.02	-10619.00	6128.69	1660290.66	14291649.65	39°21'22.456"N	80°55'46.891"W	12260.67	150.009	1.86	0.00	-1.86	
19166.00	90.180	155.820	6536.40	12203.97	-10705.82	6164.69	1660326.64	14291562.86	39°21'21.598"N	80°55'46.434"W	12353.87	150.066	3.53	0.13	-3.53	
19260.00	90.220	154.290	6536.07	12297.75	-10791.05	6204.33	1660366.27	14291477.67	39°21'20.756"N	80°55'45.930"W	12447.51	150.103	1.63	0.04	-1.63	
19355.00	90.280	153.410	6535.66	12392.36	-10876.32	6246.20	1660408.12	14291392.43	39°21'19.912"N	80°55'45.398"W	12542.31	150.132	0.93	0.06	-0.93	
19449.00	90.180	154.830	6535.28	12486.02	-10960.89	6287.23	1660449.13	14291307.89	39°21'19.078"N	80°55'44.878"W	12636.08	150.161	1.51	-0.11	1.51	
19544.00	90.280	156.450	6534.90	12580.85	-11047.43	6326.41	1660488.30	14291221.39	39°21'18.220"N	80°55'44.378"W	12730.64	150.202	1.71	0.11	1.71	
19639.00	90.220	157.160	6534.48	12675.78	-11134.75	6363.63	1660525.70	14291134.11	39°21'17.357"N	80°55'43.903"W	12825.02	150.251	0.75	-0.06	0.75	
19658.00	90.150	157.920	6534.43	12699.77	-11150.46	6370.32	1660532.20	14291118.40	39°21'17.202"N	80°55'43.820"W	12841.88	150.260	4.49	-0.41	4.47	
19680.00	90.150	157.920	6534.37	12716.77	-11172.70	6379.35	1660541.21	14291096.17	39°21'16.982"N	80°55'43.706"W	12855.66	150.275	0.00	0.00	0.00	Projected MD @ TD: 19670MD / 6534 TVD



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'

Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

HOLE & CASING SECTIONS - Ref Wellbore: McKim Unit 2H AWB Ref Wellpath: McKim Unit 2H AWP Proj: 19680'									
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	32.00	112.00	80.00	32.00	112.00	0.00	0.00	0.21	0.08
17.5in Open Hole	112.00	550.50	438.50	112.00	550.50	0.21	0.08	0.76	0.58
13.375in Casing Surface	32.00	550.50	518.50	32.00	550.50	0.00	0.00	0.76	0.58
12.25in Open Hole	550.50	2665.00	2114.50	550.50	2601.53	0.76	0.58	257.40	377.85
9.625in Casing Intermediate	32.00	2665.00	2633.00	32.00	2601.53	0.00	0.00	257.40	377.85

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McKim Unit 2H POE Rev-2	6473.00	581.04	1846.52	1656010.21	14302845.19	39°23'13.182"N	80°56'41.318"W	point
McKim Unit 2H BHL Rev-2	6507.00	-11003.28	6294.46	1660456.36	14291265.52	39°21'18.657"N	80°55'44.785"W	point
McKim Unit 2H LP Rev-2	6507.00	383.71	1922.29	1656085.95	14302647.94	39°23'11.231"N	80°56'40.355"W	point

WELLPATH COMPOSITION - Ref Wellbore: McKim Unit 2H AWB Ref Wellpath: McKim Unit 2H AWP Proj: 19680'			Log Name/Comment	Wellbore
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		
32.00	520.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(100-503)	McKim Unit 2H AWB
520.00	1146.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(503)(563-1129')	McKim Unit 2H AWB
1146.00	2591.00	ISCWSA MWD, Rev. 4 (Standard)	03 Directional ONE MWD <12-1/4">(1129')(1185'-2574')	McKim Unit 2H AWB
2591.00	5891.00	ISCWSA MWD, Rev. 4 (Standard)	04 Directional ONE MWD <8-3/4">(2574')(2654'-5874')	McKim Unit 2H AWB
5891.00	19656.00	BHI AutoTrak Curve (Short)	05 AT Curve <8-1/2">(5891')(5956'-19656)	McKim Unit 2H AWB
19656.00	19680.00	Blind Drilling (std)	Projection to bit	McKim Unit 2H AWB

05/03/2019



Actual Wellpath Report

McKim Unit 2H AWP Proj: 19680'
Page 11 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	McKim Unit 2H
Field	Tyler	Wellbore	McKim Unit 2H AWB
Facility	McKim Pad		

COMMENTS

Wellpath general comments
 API: 47095024190000
 BH Job #: 8937216
 Rig: Frontier 32
 Duration: 01/13/18 - 01/17/18
 Comment
 Gyrodatta MS Gyro <17-1/2">(100'-503')
 Gyrodatta MS Gyro <12-1/4">(503')(563'-1129')
 Directional ONE MWD <12-1/4">(1129')(1185'-2574')
 Directional ONE MWD <8-3/4">(2574')(2654'-5874')
 AT Curve <8-1/2">(5891')(5956'-19656')
 Sycamore: 6632'MD / 6248'TVD
 Middlesex: 6787'MD / 6349'TVD
 Burket: 6990'MD / 6442'TVD
 Tully: 7056'MD / 6464'TVD
 POE Marcellus: 7109'MD / 6479'TVD
 Projected MD @ TD: 19670'MD / 6534'TVD

05/03/2019