



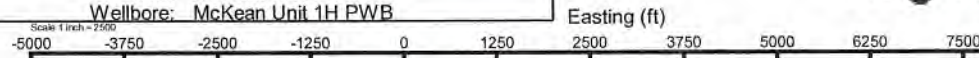
# ANTERO RESOURCES CORPORATION



Location: Doddridge Co., WV  
 Field: Doddridge  
 Facility: Gaspar Pad

Slot: Slot F  
 Well: McKean Unit 1H  
 Wellbore: McKean Unit 1H PWB

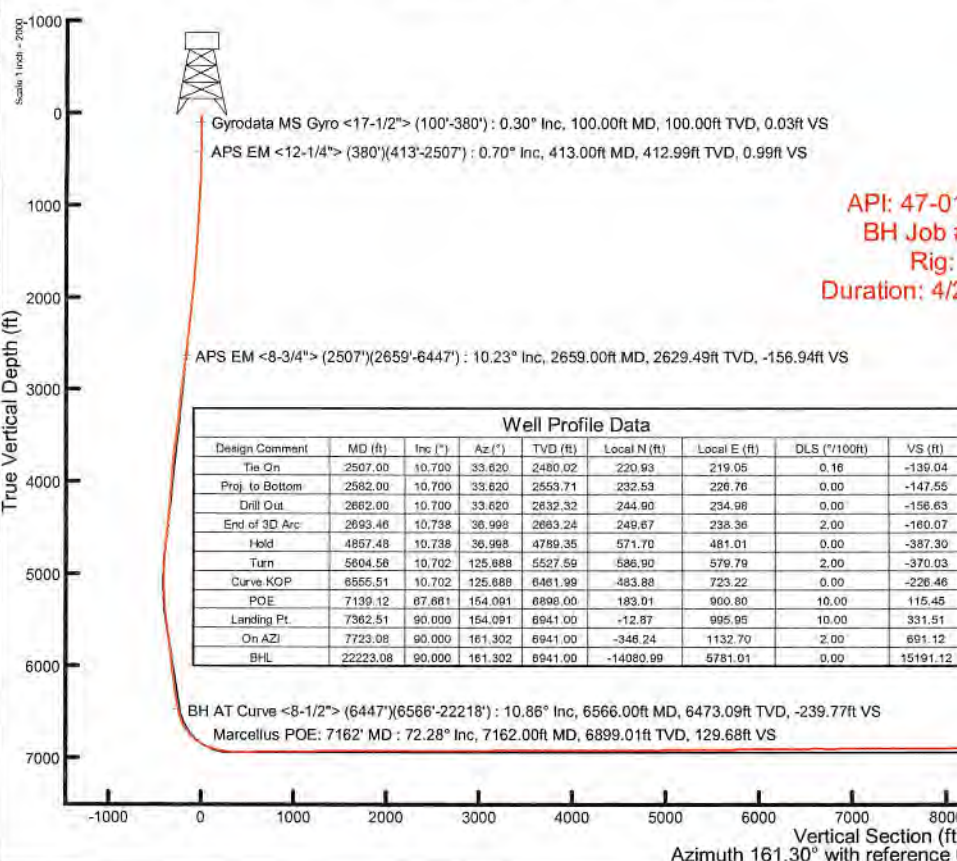
Plot reference wellpath is McKean Unit 1H PWB Rev-B.0	Grid System: NAD2011 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1219 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot F): -1169 feet	Depth: sea in feet
Offset wellpath MDs are referenced to each plot's default MD datum	Created by: vrbryan on 2022-05-11; Database: WA_MPL_EASTERMUS_Dein



Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gaspar Pad	1707468.590	14276538.450	39°18'52.2500"N	80°45'48.5558"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot F	44.88	80.15	1707528.720	14276583.310
Comment: McKean Unit 1H				
H&P 531 (RKB) to Ground level (At Slot: Slot F): 30ft				
Mean Sea Level to Ground level (At Slot: Slot F): -1169ft				
H&P 531 (RKB) to Mean Sea Level: 1219ft				

Well Data			
Slot	Well	Wellbore	Wellpath
Slot F	McKean Unit 1H	McKean Unit 1H AWB	McKean Unit 1H AWP Proj: 22243
Slot F	McKean Unit 1H	McKean Unit 1H PWB	McKean Unit 1H PWP Rev-B.0

BH AT Curve <8-1/2"> (6447)(6566'-22218') : 6473.09ft TVD, 493.51ft N, 710.15ft E  
 APS EM <8-3/4"> (2507)(2659'-6447') : 2629.49ft TVD, 244.61ft N, 233.17ft E  
 APS EM <12-1/4"> (380)(413'-2507') : 412.99ft TVD, 1.64ft S, 1.75ft W  
 Gyrodota MS Gyro <17-1/2"> (100'-380') : 100.00ft TVD, 0.09ft S, 0.16ft W



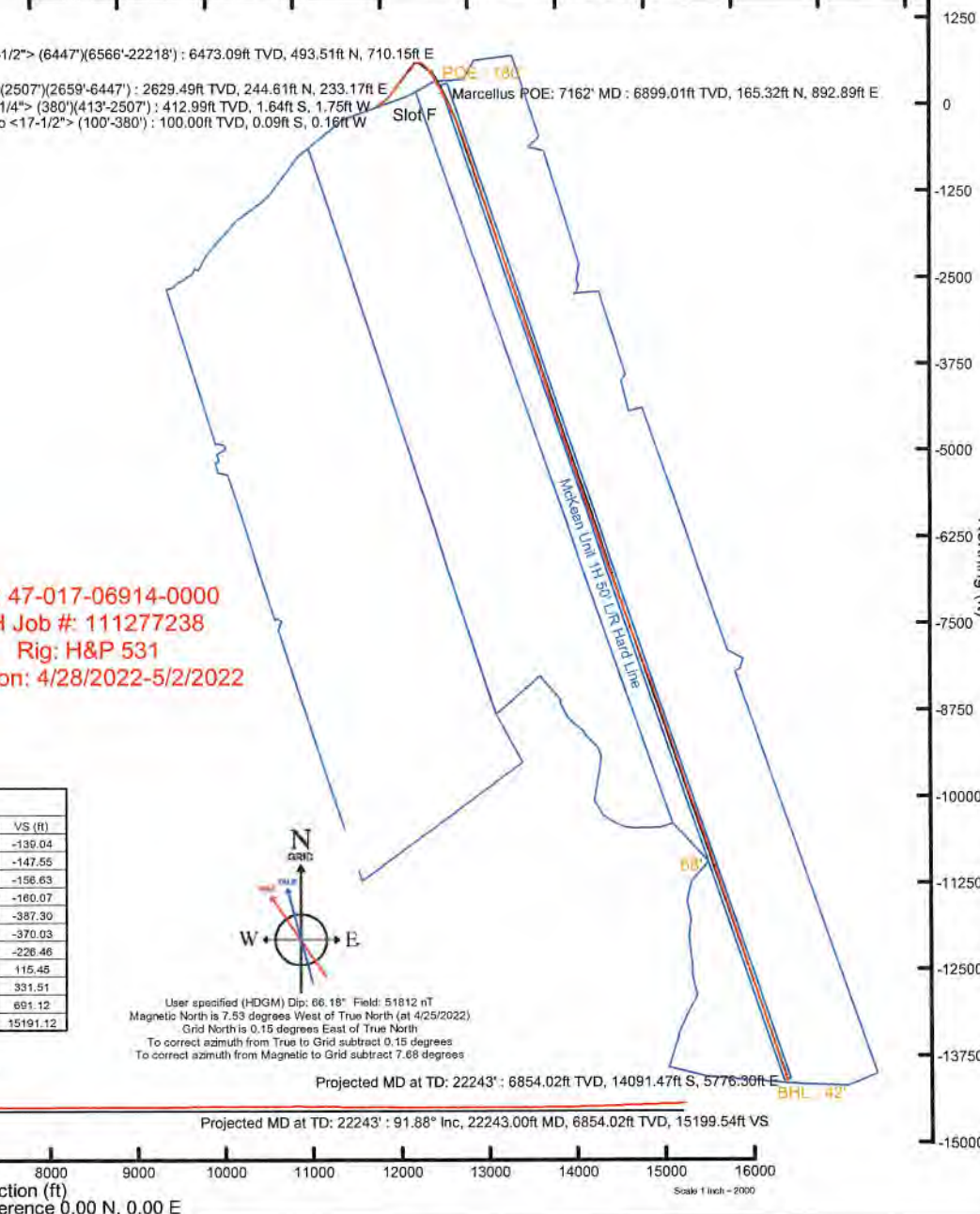
Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	2507.00	10.700	33.620	2480.02	220.93	219.05	-139.04
Proj. to Bottom	2582.00	10.700	33.620	2559.71	232.53	226.76	-147.55
Drill Out	2662.00	10.700	33.620	2632.32	244.90	234.98	-156.63
End of 3D Arc	2693.46	10.738	36.998	2693.24	249.67	238.36	-160.07
Hold	4857.48	10.738	36.998	4789.35	571.70	481.01	-387.30
Turn	5804.58	10.702	125.888	5527.59	586.90	579.79	-370.03
Curve KOP	6565.51	10.702	125.888	6481.99	483.88	723.22	-226.46
POE	7139.12	87.881	154.091	6898.00	183.01	900.80	115.45
Landing Pt.	7362.51	90.000	154.091	6941.00	-12.87	995.95	331.51
On AZI	7723.08	90.000	161.302	6941.00	-348.24	1132.70	691.12
BHL	22223.08	90.000	161.302	6941.00	-14080.99	5781.01	15191.12

API: 47-017-06914-0000  
 BH Job #: 111277238  
 Rig: H&P 531  
 Duration: 4/28/2022-5/2/2022



User specified (HDGM) Dip: 66.18° Field: 51812 nT  
 Magnetic North is 7.53 degrees West of True North (at 4/25/2022)  
 Grid North is 0.15 degrees East of True North  
 To correct azimuth from True to Grid subtract 0.15 degrees  
 To correct azimuth from Magnetic to Grid subtract 7.68 degrees

Projected MD at TD: 22243' : 6854.02ft TVD, 14091.47ft S, 5776.30ft E  
 Projected MD at TD: 22243' : 91.88° Inc, 22243.00ft MD, 6854.02ft TVD, 15199.54ft VS





# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999605	Report Generated	6/11/2022 at 9:49:08 PM
Convergence at slot	0.15° 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	44.88	60.15	1707528.72	14276583.31	39°18'52.6920"N	80°45'45.7890"W
Facility Reference Pt			1707468.59	14276538.45	39°18'52.2500"N	80°45'46.5558"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 531 (RKB) to Facility Vertical Datum	1219.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1219.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot F)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.30°



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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†	0.00	240.920	0.00	0.00	0.00	0.00	1707528.72	14276583.31	39°18'52.6920"N	80°45'45.7890"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	240.920	30.00	0.00	0.00	0.00	1707528.72	14276583.31	39°18'52.6920"N	80°45'45.7890"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.30	240.920	100.00	0.03	-0.09	-0.16	1707528.56	14276583.22	39°18'52.6912"N	80°45'45.7911"W	0.18	240.920	0.43	0.43	0.00	Gyrodata MS Gyro <17-1/2"> (100'-380')
200.00	0.25	233.940	200.00	0.15	-0.34	-0.57	1707528.15	14276582.97	39°18'52.6886"N	80°45'45.7962"W	0.66	238.625	0.06	-0.05	-6.98	
300.00	0.51	219.830	300.00	0.44	-0.81	-1.03	1707527.69	14276582.50	39°18'52.6840"N	80°45'45.8021"W	1.31	231.561	0.27	0.26	-14.11	
380.00	0.55	219.940	379.99	0.83	-1.38	-1.50	1707527.22	14276581.93	39°18'52.6784"N	80°45'45.8082"W	2.04	227.354	0.05	0.05	0.14	
413.00	0.70	227.780	412.99	0.99	-1.64	-1.75	1707526.97	14276581.67	39°18'52.6759"N	80°45'45.8114"W	2.40	226.902	0.52	0.45	23.76	APS EM <12-1/4"> (380')(413'-2507')
504.00	0.55	73.680	503.99	1.23	-1.89	-1.74	1707526.98	14276581.42	39°18'52.6734"N	80°45'45.8113"W	2.57	222.705	1.34	-0.16	-169.34	
594.00	2.76	58.530	593.95	0.77	-0.64	0.52	1707529.24	14276582.67	39°18'52.6857"N	80°45'45.7824"W	0.82	140.901	2.48	2.48	-16.83	
684.00	4.83	59.650	683.74	-0.47	2.41	5.64	1707534.35	14276585.72	39°18'52.7157"N	80°45'45.7172"W	6.13	66.865	2.30	2.30	1.24	
774.00	6.50	57.640	773.30	-2.44	7.05	13.21	1707541.92	14276590.36	39°18'52.7614"N	80°45'45.6207"W	14.97	61.912	1.87	1.86	-2.23	
865.00	8.14	56.560	863.56	-5.30	13.36	22.94	1707551.65	14276596.66	39°18'52.8235"N	80°45'45.4967"W	26.54	59.786	1.81	1.80	-1.19	
955.00	8.50	55.270	952.61	-8.76	20.66	33.72	1707562.43	14276603.96	39°18'52.8953"N	80°45'45.3593"W	39.55	58.508	0.45	0.40	-1.43	
1046.00	9.66	54.220	1042.47	-12.86	28.95	45.44	1707574.14	14276612.25	39°18'52.9770"N	80°45'45.2099"W	53.88	57.497	1.29	1.27	-1.15	
1141.00	10.01	52.620	1136.07	-17.84	38.63	58.47	1707587.17	14276621.92	39°18'53.0723"N	80°45'45.0438"W	70.08	56.550	0.47	0.37	-1.68	
1235.00	9.73	51.630	1228.68	-23.13	48.52	71.19	1707599.88	14276631.81	39°18'53.1697"N	80°45'44.8817"W	86.15	55.725	0.35	-0.30	-1.05	
1330.00	9.43	50.400	1322.36	-28.61	58.46	83.48	1707612.17	14276641.75	39°18'53.2677"N	80°45'44.7250"W	101.91	54.996	0.38	-0.32	-1.29	
1425.00	9.29	49.170	1416.09	-34.27	68.43	95.28	1707623.96	14276651.72	39°18'53.3660"N	80°45'44.5745"W	117.31	54.312	0.26	-0.15	-1.29	
1519.00	10.30	46.430	1508.72	-40.67	79.19	107.11	1707635.79	14276662.47	39°18'53.4719"N	80°45'44.4236"W	133.20	53.523	1.18	1.07	-2.91	
1614.00	10.63	42.750	1602.14	-48.43	91.48	119.21	1707647.88	14276674.75	39°18'53.5931"N	80°45'44.2693"W	150.26	52.499	0.78	0.35	-3.87	
1709.00	10.58	41.690	1695.52	-56.92	104.42	130.96	1707659.63	14276687.69	39°18'53.7207"N	80°45'44.1193"W	167.49	51.432	0.21	-0.05	-1.12	
1803.00	10.42	39.460	1787.94	-65.67	117.43	142.10	1707670.76	14276700.69	39°18'53.8490"N	80°45'43.9771"W	184.34	50.430	0.46	-0.17	-2.37	
1898.00	10.53	39.280	1881.36	-74.81	130.78	153.06	1707681.71	14276714.04	39°18'53.9807"N	80°45'43.8373"W	201.32	49.487	0.12	0.12	-0.19	
1992.00	10.42	38.490	1973.79	-83.97	144.08	163.78	1707692.44	14276727.34	39°18'54.1119"N	80°45'43.7004"W	218.14	48.661	0.19	-0.12	-0.84	
2087.00	10.50	36.870	2067.22	-93.52	157.73	174.32	1707702.98	14276740.98	39°18'54.2465"N	80°45'43.5658"W	235.09	47.860	0.32	0.08	-1.71	
2182.00	10.54	36.270	2160.62	-103.40	171.66	184.66	1707713.31	14276754.91	39°18'54.3839"N	80°45'43.4339"W	252.13	47.089	0.12	0.04	-0.63	
2276.00	10.68	35.630	2253.01	-113.41	185.68	194.82	1707723.46	14276768.91	39°18'54.5221"N	80°45'43.3041"W	269.13	46.377	0.19	0.15	-0.68	
2371.00	10.68	34.580	2346.37	-123.81	200.08	204.94	1707733.58	14276783.31	39°18'54.6642"N	80°45'43.1748"W	286.41	45.688	0.20	0.00	-1.11	
2465.00	10.65	33.870	2438.74	-134.30	214.46	214.73	1707743.36	14276797.69	39°18'54.8061"N	80°45'43.0499"W	303.48	45.036	0.14	-0.03	-0.76	
2507.00	10.70	33.620	2480.02	-139.04	220.93	219.05	1707747.68	14276804.15	39°18'54.8699"N	80°45'42.9947"W	311.12	44.755	0.16	0.12	-0.60	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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
2659.00	10.230	27.870	2629.49	-156.94	244.61	233.17	1707761.80	14276827.83	39°18'55.1037"N	80°45'42.8142"W	337.94	43.628	0.75	-0.31	-3.78	APS EM <8-3/4"> (2507°)(2659°-6447°)
2753.00	11.430	33.100	2721.82	-168.44	259.80	242.16	1707770.79	14276843.00	39°18'55.2535"N	80°45'42.6993"W	355.16	42.988	1.65	1.28	5.56	
2847.00	12.600	37.970	2813.76	-179.84	275.68	253.56	1707782.18	14276858.88	39°18'55.4102"N	80°45'42.5538"W	374.56	42.606	1.65	1.24	5.18	
2942.00	12.410	33.030	2906.51	-191.85	292.41	265.50	1707794.11	14276875.60	39°18'55.5752"N	80°45'42.4013"W	394.96	42.238	1.14	-0.20	-5.20	
3038.00	12.950	38.920	3000.17	-204.00	309.43	277.88	1707806.49	14276892.62	39°18'55.7431"N	80°45'42.2432"W	415.89	41.925	1.46	0.56	6.14	
3133.00	13.640	49.090	3092.64	-213.94	325.05	293.03	1707821.64	14276908.23	39°18'55.8971"N	80°45'42.0499"W	437.63	42.035	2.56	0.73	10.71	
3228.00	13.310	46.160	3185.02	-222.82	339.96	309.39	1707837.98	14276923.13	39°18'56.0440"N	80°45'41.8413"W	459.66	42.304	0.80	-0.35	-3.08	
3322.00	13.140	42.870	3276.53	-232.50	355.28	324.46	1707853.05	14276938.45	39°18'56.1951"N	80°45'41.6490"W	481.14	42.404	0.82	-0.18	-3.50	
3417.00	12.520	38.620	3369.16	-243.20	371.24	338.23	1707866.82	14276954.41	39°18'56.3525"N	80°45'41.4732"W	502.22	42.336	1.19	-0.65	-4.47	
3512.00	12.000	34.760	3461.99	-254.64	387.40	350.29	1707878.87	14276970.56	39°18'56.5119"N	80°45'41.3193"W	522.29	42.120	1.02	-0.55	-4.06	
3606.00	11.440	30.890	3554.04	-266.50	403.43	360.65	1707889.23	14276986.58	39°18'56.6700"N	80°45'41.1870"W	541.13	41.795	1.03	-0.60	-4.12	
3701.00	11.090	28.260	3647.21	-278.85	419.56	369.81	1707898.38	14277002.71	39°18'56.8292"N	80°45'41.0698"W	559.28	41.394	0.65	-0.37	-2.77	
3796.00	10.800	37.820	3740.49	-289.99	434.64	379.60	1707908.16	14277017.78	39°18'56.9780"N	80°45'40.9448"W	577.07	41.132	1.93	-0.31	-10.06	
3890.00	11.920	49.380	3832.65	-298.48	447.92	392.37	1707920.93	14277031.05	39°18'57.1089"N	80°45'40.7819"W	595.47	41.217	2.69	1.19	12.30	
3985.00	11.330	46.650	3925.71	-306.03	460.72	406.60	1707935.16	14277043.84	39°18'57.2350"N	80°45'40.6004"W	614.48	41.430	0.85	-0.62	-2.87	
4080.00	10.800	44.600	4018.94	-313.92	473.46	419.63	1707948.19	14277056.58	39°18'57.3606"N	80°45'40.4341"W	632.66	41.551	0.69	-0.56	-2.16	
4174.00	10.430	39.190	4111.33	-322.40	486.32	431.20	1707959.74	14277069.44	39°18'57.4875"N	80°45'40.2866"W	649.95	41.562	1.13	-0.39	-5.76	
4269.00	9.080	37.280	4204.96	-331.17	498.95	441.17	1707969.72	14277082.07	39°18'57.6120"N	80°45'40.1592"W	666.02	41.483	1.46	-1.42	-2.01	
4363.00	7.680	33.470	4297.95	-339.17	510.10	449.13	1707977.67	14277093.20	39°18'57.7220"N	80°45'40.0576"W	679.64	41.363	1.60	-1.49	-4.05	
4458.00	8.780	29.130	4391.97	-347.93	521.73	456.16	1707984.70	14277104.83	39°18'57.8367"N	80°45'39.9678"W	693.02	41.164	1.33	1.16	-4.57	
4553.00	9.520	32.510	4485.77	-357.72	534.68	463.91	1707992.45	14277117.78	39°18'57.9646"N	80°45'39.8687"W	707.88	40.946	0.96	0.78	3.56	
4648.00	7.690	28.560	4579.69	-366.96	546.89	471.17	1707999.70	14277129.99	39°18'58.0851"N	80°45'39.7759"W	721.87	40.746	2.02	-1.93	-4.16	
4742.00	8.200	31.860	4672.79	-375.49	558.11	477.72	1708006.25	14277141.20	39°18'58.1958"N	80°45'39.6923"W	734.64	40.562	0.73	0.54	3.51	
4837.00	9.850	47.490	4766.63	-383.07	569.36	487.29	1708015.81	14277152.44	39°18'58.3067"N	80°45'39.5701"W	749.41	40.559	3.10	1.74	16.45	
4932.00	9.200	42.880	4860.32	-389.97	580.41	498.44	1708026.97	14277163.49	39°18'58.4157"N	80°45'39.4278"W	765.07	40.655	1.05	-0.68	-4.85	
5027.00	8.410	46.750	4954.20	-396.47	590.74	508.67	1708037.19	14277173.82	39°18'58.5175"N	80°45'39.2973"W	779.56	40.731	1.04	-0.83	4.07	
5121.00	10.450	74.320	5046.97	-398.88	597.76	521.89	1708050.41	14277180.83	39°18'58.5865"N	80°45'39.1289"W	793.53	41.124	5.21	2.17	29.33	
5216.00	12.460	82.400	5140.08	-396.45	601.44	540.35	1708068.86	14277184.51	39°18'58.6224"N	80°45'38.8939"W	808.52	41.937	2.70	2.12	8.51	
5311.00	10.850	88.260	5233.12	-391.87	603.07	559.45	1708087.95	14277186.14	39°18'58.6380"N	80°45'38.6509"W	822.60	42.851	2.10	-1.69	6.17	
5406.00	8.640	96.040	5326.75	-386.27	602.59	575.48	1708103.98	14277185.66	39°18'58.6328"N	80°45'38.4469"W	833.24	43.682	2.70	-2.33	8.19	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 stations) † = interpolated, ‡ = extrapolated station																
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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
5500.00	8.300	108.240	5419.73	-379.24	599.72	588.95	1708117.44	14277182.80	39°18'58.6041"N	80°45'38.2756"W	840.55	44.481	1.94	-0.36	12.98	
5595.00	10.660	121.780	5513.44	-368.34	592.95	602.94	1708131.42	14277176.02	39°18'58.5368"N	80°45'38.0979"W	845.65	45.478	3.40	2.48	14.25	
5689.00	9.720	123.690	5605.95	-355.34	583.97	616.93	1708145.40	14277167.05	39°18'58.4477"N	80°45'37.9202"W	849.48	46.572	1.06	-1.00	2.03	
5784.00	8.870	130.620	5699.71	-342.69	574.75	629.16	1708157.63	14277157.83	39°18'58.3563"N	80°45'37.7648"W	852.16	47.588	1.48	-0.89	7.29	
5879.00	7.370	133.720	5793.75	-330.99	565.77	639.13	1708167.59	14277148.86	39°18'58.2672"N	80°45'37.6384"W	853.57	48.484	1.64	-1.58	3.26	
5973.00	7.510	140.040	5886.96	-319.92	556.89	647.43	1708175.89	14277139.98	39°18'58.1793"N	80°45'37.5330"W	853.99	49.299	0.88	0.15	6.72	
6068.00	8.400	131.860	5981.05	-308.09	547.50	656.58	1708185.04	14277130.60	39°18'58.0863"N	80°45'37.4169"W	854.91	50.176	1.51	0.94	-8.61	
6163.00	7.710	130.980	6075.11	-296.55	538.70	666.56	1708195.02	14277121.79	39°18'57.9989"N	80°45'37.2902"W	857.03	51.056	0.74	-0.73	-0.93	
6258.00	7.300	140.690	6169.30	-285.40	529.85	675.20	1708203.65	14277112.95	39°18'57.9112"N	80°45'37.1806"W	858.27	51.878	1.40	-0.43	10.22	
6353.00	8.950	139.100	6263.35	-272.91	519.59	683.86	1708212.31	14277102.69	39°18'57.8097"N	80°45'37.0708"W	858.86	52.773	1.75	1.74	-1.67	
6447.00	10.040	131.610	6356.06	-259.02	508.62	694.77	1708223.22	14277091.73	39°18'57.7010"N	80°45'36.9323"W	861.05	53.793	1.75	1.16	-7.97	
6566.00	10.860	137.180	6473.09	-239.77	493.51	710.15	1708238.59	14277076.62	39°18'57.5512"N	80°45'36.7371"W	864.79	55.203	1.09	0.69	4.68	BH AT Curve <8-1/2"> (6447')(6566'-22218'), Sycamore: 6566' MD
6660.00	20.600	149.100	6563.48	-215.46	472.77	724.70	1708253.13	14277055.89	39°18'57.3458"N	80°45'36.5527"W	865.28	56.881	10.86	10.36	12.68	
6755.00	29.990	149.770	6649.28	-175.78	437.84	745.28	1708273.71	14277020.97	39°18'57.0000"N	80°45'36.2920"W	864.38	59.567	9.89	9.88	0.71	
6795.00†	34.272	150.133	6683.14	-154.92	419.42	755.93	1708284.35	14277002.57	39°18'56.8178"N	80°45'36.1572"W	864.49	60.976	10.71	10.70	0.91	Middlesex: 6795' MD
6850.00	40.160	150.520	6726.92	-122.28	390.53	772.38	1708300.80	14276973.69	39°18'56.5318"N	80°45'35.9488"W	865.50	63.178	10.71	10.71	0.70	
6944.00	49.800	151.560	6793.34	-66.97	332.44	804.47	1708332.87	14276915.62	39°18'55.9568"N	80°45'35.5425"W	870.46	67.548	10.28	10.26	1.11	
6984.00†	53.723	151.938	6818.09	-25.99	304.77	819.34	1708347.73	14276887.96	39°18'55.6829"N	80°45'35.3543"W	874.18	69.596	9.84	9.81	0.94	Burkett: 6984' MD
7034.00†	58.629	152.360	6845.91	15.01	268.05	838.73	1708367.12	14276851.26	39°18'55.3195"N	80°45'35.1088"W	880.53	72.277	9.84	9.81	0.84	Tully: 7034' MD
7039.00	59.120	152.400	6848.50	19.24	264.26	840.72	1708369.10	14276847.46	39°18'55.2819"N	80°45'35.0836"W	881.27	72.551	9.84	9.81	0.79	
7086.00	64.060	151.970	6870.85	60.04	227.71	860.00	1708388.38	14276810.93	39°18'54.9202"N	80°45'34.8395"W	889.64	75.170	10.54	10.51	-0.91	
7133.00	69.280	152.240	6889.46	102.63	189.58	880.19	1708408.56	14276772.81	39°18'54.5428"N	80°45'34.5840"W	900.37	77.845	11.12	11.11	0.57	
7162.00†	72.279	152.483	6899.01	129.68	165.32	892.89	1708421.25	14276748.57	39°18'54.3027"N	80°45'34.4232"W	908.06	79.510	10.37	10.34	0.84	Marcellus POE: 7162' MD
7180.00	74.140	152.630	6904.20	146.71	150.03	900.83	1708429.19	14276733.28	39°18'54.1514"N	80°45'34.3227"W	913.24	80.544	10.37	10.34	0.82	
7228.00	77.660	152.300	6915.90	192.70	108.76	922.35	1708450.70	14276692.02	39°18'53.7429"N	80°45'34.0503"W	928.74	83.275	7.36	7.33	-0.69	
7323.00	82.380	152.620	6932.36	285.13	25.82	965.60	1708493.93	14276609.12	39°18'52.9220"N	80°45'33.5029"W	965.94	88.468	4.98	4.97	0.34	
7418.00	91.020	153.010	6937.82	378.84	-58.47	1008.88	1708537.20	14276524.87	39°18'52.0878"N	80°45'32.9550"W	1010.58	93.317	9.10	9.09	0.41	
7513.00	90.550	152.710	6936.52	472.80	-143.00	1052.21	1708580.52	14276440.37	39°18'51.2512"N	80°45'32.4066"W	1061.89	97.739	0.59	-0.49	-0.32	
7608.00	90.520	156.940	6935.63	567.17	-228.95	1092.62	1708620.90	14276354.45	39°18'50.4006"N	80°45'31.8955"W	1116.35	101.835	4.45	-0.03	4.45	
7702.00	90.370	157.490	6934.90	660.93	-315.61	1129.02	1708657.29	14276267.82	39°18'49.5431"N	80°45'31.4353"W	1172.30	105.618	0.61	-0.16	0.59	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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
7797.00	90.740	160.730	6933.98	755.84	-404.35	1162.89	1708691.14	14276179.12	39°18'48.6651"N	80°45'31.0074"W	1231.18	109.173	3.43	0.39	3.41	
7892.00	90.090	159.930	6933.29	850.83	-493.81	1194.86	1708723.11	14276089.70	39°18'47.7802"N	80°45'30.6036"W	1292.88	112.454	1.09	-0.68	-0.84	
7987.00	90.620	161.370	6932.70	945.82	-583.44	1226.34	1708754.57	14276000.11	39°18'46.8935"N	80°45'30.2062"W	1358.05	115.443	1.62	0.56	1.52	
8081.00	91.080	161.930	6931.31	1039.80	-672.65	1255.93	1708784.15	14275910.93	39°18'46.0110"N	80°45'29.8328"W	1424.71	118.172	0.77	0.49	0.60	
8176.00	90.460	161.640	6930.03	1134.79	-762.88	1285.62	1708813.83	14275820.74	39°18'45.1184"N	80°45'29.4581"W	1494.92	120.685	0.72	-0.65	-0.31	
8271.00	90.710	161.300	6929.06	1229.79	-852.95	1315.81	1708844.01	14275730.70	39°18'44.2274"N	80°45'29.0770"W	1568.08	122.952	0.44	0.26	-0.36	
8366.00	90.250	161.920	6928.27	1324.78	-943.09	1345.78	1708873.97	14275640.59	39°18'43.3356"N	80°45'28.6988"W	1643.33	125.022	0.81	-0.48	0.65	
8460.00	90.680	161.660	6927.50	1418.77	-1032.38	1375.15	1708903.33	14275551.34	39°18'42.4523"N	80°45'28.3281"W	1719.55	126.897	0.53	0.46	-0.28	
8555.00	89.630	162.350	6927.25	1513.76	-1122.73	1404.50	1708932.66	14275461.02	39°18'41.5586"N	80°45'27.9578"W	1798.10	128.638	1.32	-1.11	0.73	
8650.00	89.940	161.900	6927.60	1608.75	-1213.14	1433.66	1708961.81	14275370.65	39°18'40.6642"N	80°45'27.5899"W	1878.06	130.237	0.58	0.33	-0.47	
8744.00	90.120	161.630	6927.55	1702.75	-1302.42	1463.07	1708991.21	14275281.40	39°18'39.7810"N	80°45'27.2188"W	1958.80	131.675	0.35	0.19	-0.29	
8838.00	90.740	161.420	6926.85	1796.75	-1391.58	1492.86	1709020.99	14275192.29	39°18'38.8990"N	80°45'26.8429"W	2040.86	132.989	0.70	0.66	-0.22	
8933.00	89.880	162.010	6926.33	1891.74	-1481.78	1522.67	1709050.78	14275102.12	39°18'38.0067"N	80°45'26.4668"W	2124.66	134.220	1.10	-0.91	0.62	
9027.00	90.060	160.850	6926.38	1985.74	-1570.88	1552.60	1709080.70	14275013.05	39°18'37.1253"N	80°45'26.0890"W	2208.67	135.335	1.25	0.19	-1.23	
9122.00	90.680	162.020	6925.77	2080.73	-1660.93	1582.85	1709110.94	14274923.04	39°18'36.2344"N	80°45'25.7073"W	2294.36	136.379	1.39	0.65	1.23	
9216.00	89.940	162.140	6925.26	2174.72	-1750.37	1611.77	1709139.85	14274833.63	39°18'35.3497"N	80°45'25.3424"W	2379.41	137.361	0.80	-0.79	0.13	
9311.00	89.850	161.350	6925.44	2269.72	-1840.59	1641.53	1709169.59	14274743.45	39°18'34.4572"N	80°45'24.9669"W	2466.25	138.272	0.84	-0.09	-0.83	
9406.00	90.770	162.690	6924.92	2364.71	-1930.95	1670.85	1709198.91	14274653.13	39°18'33.5634"N	80°45'24.5969"W	2553.49	139.130	1.71	0.97	1.41	
9500.00	89.660	160.520	6924.57	2458.70	-2020.14	1700.51	1709228.56	14274563.98	39°18'32.6811"N	80°45'24.2226"W	2640.58	139.910	2.59	-1.18	-2.31	
9595.00	90.490	162.000	6924.44	2553.69	-2110.10	1731.03	1709259.06	14274474.05	39°18'31.7911"N	80°45'23.8374"W	2729.28	140.636	1.79	0.87	1.56	
9690.00	90.280	162.190	6923.81	2648.68	-2200.49	1760.24	1709288.26	14274383.69	39°18'30.8969"N	80°45'23.4689"W	2817.91	141.343	0.30	-0.22	0.20	
9784.00	90.150	161.980	6923.45	2742.67	-2289.93	1789.15	1709317.16	14274294.28	39°18'30.0121"N	80°45'23.1042"W	2906.00	141.999	0.26	-0.14	-0.22	
9879.00	90.000	162.100	6923.33	2837.67	-2380.30	1818.44	1709346.44	14274203.95	39°18'29.1182"N	80°45'22.7346"W	2995.43	142.622	0.20	-0.16	0.13	
9973.00	90.180	160.960	6923.18	2931.66	-2469.46	1848.22	1709376.21	14274114.83	39°18'28.2362"N	80°45'22.3588"W	3084.50	143.188	1.23	0.19	-1.21	
10068.00	90.460	161.970	6922.65	3026.66	-2559.53	1878.42	1709406.40	14274024.80	39°18'27.3451"N	80°45'21.9777"W	3174.85	143.725	1.10	0.29	1.06	
10162.00	90.120	161.560	6922.17	3120.66	-2648.81	1907.84	1709435.80	14273935.55	39°18'26.4620"N	80°45'21.6066"W	3264.36	144.236	0.57	-0.36	-0.44	
10257.00	90.550	162.810	6921.62	3215.64	-2739.25	1936.90	1709464.85	14273845.15	39°18'25.5673"N	80°45'21.2400"W	3354.86	144.736	1.39	0.45	1.32	
10351.00	90.250	162.690	6920.96	3309.61	-2829.02	1964.77	1709492.71	14273755.41	39°18'24.6793"N	80°45'20.8884"W	3444.37	145.220	0.34	-0.32	-0.13	
10446.00	89.660	160.290	6921.04	3404.60	-2919.10	1994.93	1709522.86	14273665.37	39°18'23.7882"N	80°45'20.5079"W	3535.66	145.651	2.60	-0.62	-2.53	
10540.00	90.460	162.870	6920.94	3498.59	-3008.27	2024.63	1709552.55	14273576.23	39°18'22.9060"N	80°45'20.1331"W	3626.13	146.059	2.87	0.85	2.74	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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
10635.00	89.910	160.820	6920.63	3593.58	-3098.54	2054.23	1709582.13	14273486.00	39°18'22.0131"N	80°45'19.7597"W	3717.63	146.457	2.23	-0.58	-2.16	
10730.00	90.920	162.840	6919.94	3688.57	-3188.79	2083.85	1709611.74	14273395.78	39°18'21.1202"N	80°45'19.3860"W	3809.31	146.836	2.38	1.06	2.13	
10824.00	89.720	161.980	6919.42	3782.55	-3278.39	2112.26	1709640.14	14273306.22	39°18'20.2339"N	80°45'19.0277"W	3899.94	147.206	1.57	-1.28	-0.91	
10919.00	89.600	160.690	6919.98	3877.54	-3368.39	2142.66	1709670.53	14273216.25	39°18'19.3436"N	80°45'18.6440"W	3992.13	147.539	1.36	-0.13	-1.36	
11014.00	90.180	162.160	6920.17	3972.54	-3458.44	2172.92	1709700.78	14273126.24	39°18'18.4527"N	80°45'18.2622"W	4084.41	147.859	1.66	0.61	1.55	
11109.00	89.320	159.550	6920.58	4067.53	-3548.18	2204.07	1709731.92	14273036.54	39°18'17.5650"N	80°45'17.8690"W	4177.02	148.152	2.89	-0.91	-2.75	
11204.00	92.220	163.690	6919.30	4162.48	-3638.29	2234.02	1709761.85	14272946.46	39°18'16.6735"N	80°45'17.4911"W	4269.43	148.449	5.32	3.05	4.36	
11299.00	89.780	159.670	6917.64	4257.44	-3728.44	2263.87	1709791.69	14272856.35	39°18'15.7817"N	80°45'17.1145"W	4361.92	148.734	4.95	-2.57	-4.23	
11394.00	89.480	160.940	6918.26	4352.42	-3817.88	2295.88	1709823.69	14272766.95	39°18'14.8969"N	80°45'16.7104"W	4455.03	148.979	1.37	-0.32	1.34	
11488.00	90.460	162.130	6918.31	4446.42	-3907.04	2325.65	1709853.45	14272677.82	39°18'14.0149"N	80°45'16.3347"W	4546.82	149.237	1.64	1.04	1.27	
11583.00	91.020	162.930	6917.08	4541.39	-3997.65	2354.17	1709881.95	14272587.25	39°18'13.1186"N	80°45'15.9751"W	4639.32	149.507	1.03	0.59	0.84	
11678.00	89.820	162.110	6916.38	4636.36	-4088.25	2382.70	1709910.48	14272496.68	39°18'12.2223"N	80°45'15.6152"W	4731.92	149.766	1.53	-1.26	-0.86	
11772.00	90.770	162.380	6915.90	4730.35	-4177.77	2411.37	1709939.13	14272407.19	39°18'11.3367"N	80°45'15.2537"W	4823.74	150.007	1.05	1.01	0.29	
11867.00	89.570	161.520	6915.62	4825.34	-4268.10	2440.80	1709968.55	14272316.91	39°18'10.4432"N	80°45'14.8824"W	4916.72	150.236	1.55	-1.26	-0.91	
11962.00	90.060	160.280	6915.92	4920.33	-4357.86	2471.89	1709999.63	14272227.18	39°18'9.5551"N	80°45'14.4901"W	5010.11	150.437	1.40	0.52	-1.31	
12056.00	91.480	164.230	6914.66	5014.29	-4447.36	2500.53	1710028.26	14272137.71	39°18'8.6698"N	80°45'14.1288"W	5102.13	150.653	4.46	1.51	4.20	
12151.00	89.140	158.340	6914.15	5109.24	-4537.29	2530.99	1710058.71	14272047.82	39°18'7.7801"N	80°45'13.7444"W	5195.47	150.846	6.67	-2.46	-6.20	
12246.00	91.200	161.810	6913.86	5204.20	-4626.59	2563.36	1710091.07	14271958.56	39°18'6.8967"N	80°45'13.3357"W	5289.25	151.011	4.25	2.17	3.65	
12341.00	91.940	162.650	6911.26	5299.15	-4717.02	2592.34	1710120.04	14271868.16	39°18'6.0021"N	80°45'12.9702"W	5382.43	151.208	1.18	0.78	0.88	
12435.00	89.320	161.320	6910.23	5393.13	-4806.40	2621.41	1710149.09	14271778.82	39°18'5.1180"N	80°45'12.6035"W	5474.78	151.392	3.13	-2.79	-1.41	
12530.00	90.400	162.110	6910.46	5488.12	-4896.60	2651.22	1710178.88	14271688.66	39°18'4.2257"N	80°45'12.2275"W	5568.27	151.567	1.41	1.14	0.83	
12625.00	89.780	160.370	6910.31	5583.12	-4986.55	2681.77	1710209.42	14271598.74	39°18'3.3358"N	80°45'11.8420"W	5661.94	151.729	1.94	-0.65	-1.83	
12720.00	90.920	161.490	6909.73	5678.11	-5076.33	2712.80	1710240.45	14271509.00	39°18'2.4476"N	80°45'11.4503"W	5755.73	151.880	1.68	1.20	1.18	
12814.00	90.550	161.220	6908.53	5772.10	-5165.39	2742.85	1710270.49	14271419.97	39°18'1.5666"N	80°45'11.0712"W	5848.46	152.031	0.49	-0.39	-0.29	
12909.00	90.830	162.010	6907.38	5867.09	-5255.53	2772.81	1710300.43	14271329.87	39°18'0.6748"N	80°45'10.6932"W	5942.15	152.184	0.88	0.29	0.83	
13004.00	90.430	161.820	6906.34	5962.08	-5345.83	2802.30	1710329.91	14271239.60	39°17'59.7815"N	80°45'10.3212"W	6035.79	152.336	0.47	-0.42	-0.20	
13098.00	90.340	161.950	6905.70	6056.07	-5435.17	2831.53	1710359.13	14271150.30	39°17'58.8977"N	80°45'9.9526"W	6128.51	152.482	0.17	-0.10	0.14	
13193.00	90.310	161.970	6905.17	6151.07	-5525.50	2860.95	1710388.53	14271060.00	39°17'58.0042"N	80°45'9.5815"W	6222.23	152.626	0.04	-0.03	0.02	
13288.00	90.400	161.690	6904.58	6246.06	-5615.76	2890.57	1710418.15	14270969.78	39°17'57.1112"N	80°45'9.2078"W	6316.02	152.764	0.31	0.09	-0.29	
13382.00	90.620	161.860	6903.74	6340.05	-5705.04	2919.97	1710447.53	14270880.53	39°17'56.2280"N	80°45'8.8370"W	6408.88	152.896	0.30	0.23	0.18	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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
13477.00	90.150	161.590	6903.10	6435.05	-5795.25	2949.76	1710477.31	14270790.36	39°17'55.3357"N	80°45'8.4612"W	6502.77	153.024	0.57	-0.49	-0.28	
13572.00	90.710	160.550	6902.39	6530.04	-5885.10	2980.58	1710508.11	14270700.54	39°17'54.4467"N	80°45'8.0723"W	6596.84	153.140	1.24	0.59	-1.09	
13667.00	89.970	160.240	6901.83	6625.03	-5974.59	3012.45	1710539.98	14270611.09	39°17'53.5613"N	80°45'7.6700"W	6691.09	153.242	0.84	-0.78	-0.33	
13761.00	89.720	159.400	6902.08	6719.00	-6062.82	3044.88	1710572.39	14270522.89	39°17'52.6884"N	80°45'7.2606"W	6784.48	153.333	0.93	-0.27	-0.89	
13856.00	90.220	159.710	6902.13	6813.95	-6151.84	3078.06	1710605.56	14270433.91	39°17'51.8077"N	80°45'6.8416"W	6878.92	153.419	0.62	0.53	0.33	
13951.00	90.710	159.930	6901.36	6908.92	-6241.00	3110.83	1710638.32	14270344.78	39°17'50.9256"N	80°45'6.4279"W	6973.34	153.506	0.57	0.52	0.23	
14045.00	91.050	161.230	6899.91	7002.90	-6329.64	3142.08	1710669.56	14270256.18	39°17'50.0486"N	80°45'6.0335"W	7066.62	153.600	1.43	0.36	1.38	
14140.00	90.460	161.170	6898.66	7097.89	-6419.57	3172.70	1710700.16	14270166.29	39°17'49.1590"N	80°45'5.6472"W	7160.78	153.700	0.62	-0.62	-0.06	
14235.00	89.450	160.230	6898.74	7192.88	-6509.23	3204.09	1710731.54	14270076.67	39°17'48.2720"N	80°45'5.2510"W	7255.08	153.792	1.45	-1.06	-0.99	
14330.00	90.250	160.670	6898.99	7287.87	-6598.75	3235.88	1710763.32	14269987.18	39°17'47.3864"N	80°45'4.8498"W	7349.45	153.878	0.96	0.84	0.46	
14424.00	90.030	160.420	6898.76	7381.86	-6687.38	3267.19	1710794.61	14269898.58	39°17'46.5095"N	80°45'4.4546"W	7442.82	153.962	0.35	-0.23	-0.27	
14519.00	90.090	159.650	6898.66	7476.84	-6776.67	3299.63	1710827.04	14269809.33	39°17'45.6261"N	80°45'4.0452"W	7537.29	154.038	0.81	0.06	-0.81	
14613.00	90.890	160.540	6897.85	7570.81	-6865.05	3331.63	1710859.03	14269720.98	39°17'44.7517"N	80°45'3.6412"W	7630.77	154.113	1.27	0.85	0.95	
14708.00	90.180	160.710	6896.97	7665.80	-6954.66	3363.14	1710890.53	14269631.40	39°17'43.8651"N	80°45'3.2435"W	7725.16	154.192	0.77	-0.75	0.18	
14803.00	90.280	160.940	6896.58	7760.79	-7044.39	3394.35	1710921.72	14269541.71	39°17'42.9774"N	80°45'2.8498"W	7819.53	154.273	0.26	0.11	0.24	
14898.00	90.030	160.480	6896.33	7855.79	-7134.06	3425.73	1710953.09	14269452.08	39°17'42.0904"N	80°45'2.4537"W	7913.94	154.350	0.55	-0.26	-0.48	
14992.00	90.370	160.430	6896.00	7949.78	-7222.64	3457.18	1710984.53	14269363.53	39°17'41.2140"N	80°45'2.0569"W	8007.41	154.422	0.37	0.36	-0.05	
15087.00	90.280	160.680	6895.46	8044.77	-7312.22	3488.80	1711016.14	14269273.99	39°17'40.3277"N	80°45'1.6577"W	8101.87	154.493	0.28	-0.09	0.26	
15181.00	90.710	160.360	6894.65	8138.76	-7400.84	3520.15	1711047.47	14269185.41	39°17'39.4510"N	80°45'1.2622"W	8195.36	154.562	0.57	0.46	-0.34	
15276.00	90.550	161.100	6893.60	8233.74	-7490.51	3551.50	1711078.81	14269095.77	39°17'38.5639"N	80°45'0.8666"W	8289.81	154.633	0.80	-0.17	0.78	
15370.00	90.030	160.320	6893.13	8327.74	-7579.23	3582.55	1711109.85	14269007.09	39°17'37.6862"N	80°45'0.4747"W	8383.28	154.701	1.00	-0.55	-0.83	
15464.00	90.090	160.460	6893.03	8421.72	-7667.78	3614.10	1711141.38	14268918.58	39°17'36.8101"N	80°45'0.0766"W	8476.82	154.764	0.16	0.06	0.15	
15559.00	90.310	160.570	6892.70	8516.72	-7757.34	3645.79	1711173.06	14268829.05	39°17'35.9241"N	80°44'59.6767"W	8571.35	154.827	0.26	0.23	0.12	
15653.00	90.620	160.360	6891.94	8610.70	-7845.92	3677.22	1711204.48	14268740.50	39°17'35.0477"N	80°44'59.2800"W	8664.90	154.889	0.40	0.33	-0.22	
15748.00	90.370	159.840	6891.11	8705.68	-7935.25	3709.55	1711236.80	14268651.21	39°17'34.1639"N	80°44'58.8719"W	8759.50	154.945	0.61	-0.26	-0.55	
15843.00	90.340	160.500	6890.53	8800.66	-8024.61	3741.78	1711269.01	14268561.88	39°17'33.2798"N	80°44'58.4651"W	8854.11	155.001	0.70	-0.03	0.69	
15938.00	90.280	160.470	6890.01	8895.65	-8114.15	3773.51	1711300.74	14268472.38	39°17'32.3939"N	80°44'58.0647"W	8948.68	155.059	0.07	-0.06	-0.03	
16033.00	90.090	160.340	6889.71	8990.63	-8203.65	3805.37	1711332.58	14268382.92	39°17'31.5085"N	80°44'57.6626"W	9043.27	155.115	0.24	-0.20	-0.14	
16127.00	90.220	160.730	6889.45	9084.62	-8292.28	3836.70	1711363.89	14268294.32	39°17'30.6317"N	80°44'57.2673"W	9136.85	155.171	0.44	0.14	0.41	
16222.00	89.910	160.340	6889.34	9179.62	-8381.85	3868.35	1711395.54	14268204.79	39°17'29.7455"N	80°44'56.8678"W	9231.44	155.226	0.52	-0.33	-0.41	





# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWP
Slot	Slot F		

WELLPATH DATA (245 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
16316.00	90.250	160.570	6889.21	9273.60	-8470.43	3899.80	1711426.97	14268116.24	39°17'28.8691"N	80°44'56.4710"W	9325.05	155.279	0.44	0.36	0.24	
16411.00	90.090	160.830	6888.93	9368.60	-8560.09	3931.20	1711458.36	14268026.62	39°17'27.9821"N	80°44'56.0748"W	9419.63	155.333	0.32	-0.17	0.27	
16506.00	90.090	160.900	6888.78	9463.60	-8649.84	3962.34	1711489.49	14267936.90	39°17'27.0942"N	80°44'55.6819"W	9514.19	155.388	0.07	0.00	0.07	
16600.00	90.000	160.930	6888.71	9557.59	-8738.67	3993.07	1711520.21	14267848.10	39°17'26.2153"N	80°44'55.2941"W	9607.76	155.442	0.10	-0.10	0.03	
16695.00	90.550	162.040	6888.25	9652.59	-8828.75	4023.24	1711550.36	14267758.06	39°17'25.3242"N	80°44'54.9136"W	9702.24	155.501	1.30	0.58	1.17	
16789.00	90.310	161.710	6887.55	9746.58	-8918.09	4052.48	1711579.59	14267668.76	39°17'24.4405"N	80°44'54.5449"W	9795.66	155.562	0.43	-0.26	-0.35	
16884.00	90.400	161.870	6886.96	9841.58	-9008.33	4082.17	1711609.27	14267578.56	39°17'23.5477"N	80°44'54.1705"W	9890.10	155.622	0.19	0.00	0.17	
16978.00	90.680	162.050	6886.07	9935.57	-9097.70	4111.28	1711638.37	14267489.22	39°17'22.6636"N	80°44'53.8035"W	9983.53	155.682	0.35	0.30	0.19	
17073.00	90.120	161.620	6885.41	10030.56	-9187.97	4140.89	1711667.97	14267398.99	39°17'21.7706"N	80°44'53.4300"W	10077.98	155.740	0.74	-0.59	-0.45	
17168.00	89.910	161.100	6885.38	10125.56	-9277.98	4171.26	1711698.32	14267309.01	39°17'20.8801"N	80°44'53.0470"W	10172.53	155.792	0.59	-0.22	-0.55	
17263.00	90.090	161.320	6885.38	10220.56	-9367.92	4201.86	1711728.91	14267219.11	39°17'19.9904"N	80°44'52.6610"W	10267.11	155.842	0.30	0.19	0.23	
17357.00	90.860	161.130	6884.60	10314.56	-9456.91	4232.11	1711759.15	14267130.15	39°17'19.1099"N	80°44'52.2794"W	10360.69	155.891	0.84	0.82	-0.20	
17451.00	89.910	160.770	6883.97	10408.55	-9545.76	4262.79	1711789.82	14267041.34	39°17'18.2309"N	80°44'51.8923"W	10454.33	155.936	1.08	-1.01	-0.38	
17546.00	90.310	162.000	6883.79	10503.55	-9635.79	4293.11	1711820.13	14266951.34	39°17'17.3403"N	80°44'51.5099"W	10548.90	155.985	1.36	0.42	1.29	
17641.00	90.250	162.350	6883.33	10598.54	-9726.23	4322.19	1711849.20	14266860.94	39°17'16.4456"N	80°44'51.1432"W	10643.35	156.040	0.37	-0.06	0.37	
17735.00	90.090	160.980	6883.05	10692.53	-9815.45	4351.76	1711878.76	14266771.75	39°17'15.5629"N	80°44'50.7703"W	10736.90	156.089	1.47	-0.17	-1.46	
17830.00	91.260	161.790	6881.93	10787.52	-9905.48	4382.09	1711909.07	14266681.77	39°17'14.6723"N	80°44'50.3879"W	10831.49	156.136	1.50	1.23	0.85	
17924.00	88.400	160.250	6882.21	10881.51	-9994.35	4412.65	1711939.62	14266592.92	39°17'13.7931"N	80°44'50.0023"W	10925.14	156.178	3.46	-3.04	-1.64	
18019.00	89.630	159.700	6883.84	10976.47	-10083.59	4445.18	1711972.14	14266503.72	39°17'12.9101"N	80°44'49.5918"W	11019.91	156.211	1.42	1.29	-0.58	
18113.00	88.090	160.560	6885.71	11070.42	-10171.98	4477.12	1712004.06	14266415.37	39°17'12.0357"N	80°44'49.1887"W	11113.67	156.244	1.88	-1.64	0.91	
18208.00	90.030	162.230	6887.27	11165.40	-10261.99	4507.42	1712034.35	14266325.39	39°17'11.1452"N	80°44'48.8065"W	11208.27	156.287	2.69	2.04	1.76	
18303.00	88.950	161.310	6888.11	11260.39	-10352.22	4537.14	1712064.06	14266235.20	39°17'10.2526"N	80°44'48.4318"W	11302.83	156.333	1.49	-1.14	-0.97	
18397.00	89.570	161.810	6889.33	11354.38	-10441.38	4566.87	1712093.78	14266146.07	39°17'9.3705"N	80°44'48.0569"W	11396.44	156.376	0.85	0.66	0.53	
18492.00	89.260	160.600	6890.30	11449.38	-10531.31	4597.48	1712124.37	14266056.18	39°17'8.4808"N	80°44'47.6709"W	11491.10	156.416	1.31	-0.33	-1.27	
18587.00	89.350	161.010	6891.45	11544.37	-10621.02	4628.71	1712155.59	14265966.50	39°17'7.5933"N	80°44'47.2769"W	11585.81	156.452	0.44	0.09	0.43	
18681.00	89.570	161.870	6892.34	11638.36	-10710.13	4658.63	1712185.50	14265877.43	39°17'6.7118"N	80°44'46.8995"W	11679.46	156.492	0.94	0.23	0.91	
18776.00	89.290	161.780	6893.28	11733.35	-10800.39	4688.26	1712215.12	14265787.21	39°17'5.8189"N	80°44'46.5259"W	11774.04	156.535	0.31	-0.29	-0.09	
18871.00	89.170	161.130	6894.56	11828.34	-10890.44	4718.47	1712245.32	14265697.19	39°17'4.9279"N	80°44'46.1449"W	11868.69	156.575	0.70	-0.13	-0.68	
18965.00	89.880	162.270	6895.34	11922.34	-10979.69	4747.98	1712274.82	14265607.98	39°17'4.0451"N	80°44'45.7728"W	11962.31	156.615	1.43	0.76	1.21	
19060.00	89.080	161.580	6896.20	12017.32	-11069.99	4777.46	1712304.28	14265517.71	39°17'3.1517"N	80°44'45.4012"W	12056.90	156.657	1.11	-0.84	-0.73	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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
19155.00	89.780	161.690	6897.14	12112.32	-11160.15	4807.39	1712334.20	14265427.59	39°17'2.2598"N	80°44'45.0237"W	12151.54	156.695	0.75	0.74	0.12	
19250.00	89.540	161.750	6897.71	12207.31	-11250.35	4837.18	1712363.98	14265337.42	39°17'1.3674"N	80°44'44.6480"W	12246.17	156.734	0.26	-0.25	0.06	
19344.00	89.690	161.920	6898.34	12301.31	-11339.67	4866.49	1712393.28	14265248.14	39°17'0.4839"N	80°44'44.2785"W	12339.80	156.773	0.24	0.16	0.18	
19439.00	89.200	162.060	6899.26	12396.30	-11430.01	4895.86	1712422.64	14265157.84	39°16'59.5901"N	80°44'43.9083"W	12434.41	156.813	0.54	-0.52	0.15	
19534.00	89.450	160.750	6900.38	12491.29	-11520.04	4926.15	1712452.91	14265067.84	39°16'58.6994"N	80°44'43.5263"W	12529.10	156.848	1.40	0.26	-1.38	
19628.00	89.600	161.670	6901.16	12585.28	-11609.03	4956.42	1712483.18	14264978.89	39°16'57.8191"N	80°44'43.1444"W	12622.82	156.880	0.99	0.16	0.98	
19723.00	89.940	162.160	6901.54	12680.28	-11699.33	4985.91	1712512.66	14264888.62	39°16'56.9257"N	80°44'42.7726"W	12717.46	156.918	0.63	0.36	0.52	
19818.00	91.020	162.490	6900.74	12775.26	-11789.84	5014.76	1712541.49	14264798.15	39°16'56.0303"N	80°44'42.4091"W	12812.03	156.958	1.19	1.14	0.35	
19913.00	90.060	160.380	6899.85	12870.24	-11879.89	5045.00	1712571.72	14264708.14	39°16'55.1395"N	80°44'42.0277"W	12906.73	156.991	2.44	-1.01	-2.22	
20008.00	90.400	161.900	6899.47	12965.24	-11969.78	5075.71	1712602.41	14264618.28	39°16'54.2501"N	80°44'41.6404"W	13001.48	157.021	1.64	0.36	1.60	
20102.00	90.280	161.820	6898.91	13059.23	-12059.11	5104.97	1712631.67	14264528.99	39°16'53.3665"N	80°44'41.2714"W	13095.15	157.056	0.15	-0.13	-0.09	
20197.00	90.460	161.960	6898.30	13154.23	-12149.40	5134.50	1712661.19	14264438.73	39°16'52.4732"N	80°44'40.8992"W	13189.81	157.090	0.24	-0.19	0.15	
20292.00	90.120	161.610	6897.82	13249.22	-12239.64	5164.20	1712690.87	14264348.53	39°16'51.5805"N	80°44'40.5248"W	13284.49	157.124	0.51	-0.36	-0.37	
20387.00	91.020	161.940	6896.87	13344.21	-12329.87	5193.91	1712720.57	14264258.33	39°16'50.6879"N	80°44'40.1502"W	13379.18	157.157	1.01	0.95	0.35	
20482.00	89.970	161.530	6896.05	13439.21	-12420.08	5223.68	1712750.33	14264168.16	39°16'49.7954"N	80°44'39.7748"W	13473.87	157.189	1.19	-1.11	-0.43	
20576.00	90.250	161.770	6895.87	13533.20	-12509.30	5253.27	1712779.91	14264078.98	39°16'48.9128"N	80°44'39.4017"W	13567.59	157.220	0.39	0.30	0.26	
20671.00	90.490	161.230	6895.26	13628.20	-12599.39	5283.42	1712810.04	14263988.92	39°16'48.0215"N	80°44'39.0216"W	13662.32	157.250	0.62	0.25	-0.57	
20766.00	91.080	162.320	6893.95	13723.19	-12689.61	5313.12	1712839.74	14263898.74	39°16'47.1290"N	80°44'38.6471"W	13757.02	157.281	1.30	0.62	1.15	
20860.00	90.800	162.100	6892.41	13817.16	-12779.10	5341.84	1712868.44	14263809.28	39°16'46.2436"N	80°44'38.2851"W	13850.66	157.314	0.38	-0.30	-0.23	
20955.00	90.890	162.310	6891.01	13912.14	-12869.55	5370.87	1712897.46	14263718.67	39°16'45.3489"N	80°44'37.9192"W	13945.30	157.348	0.24	0.09	0.22	
21049.00	91.110	161.530	6889.37	14006.12	-12958.89	5400.04	1712926.61	14263629.56	39°16'44.4650"N	80°44'37.5515"W	14038.99	157.378	0.86	0.23	-0.83	
21144.00	91.540	160.930	6887.17	14101.09	-13048.82	5430.60	1712957.16	14263539.67	39°16'43.5754"N	80°44'37.1661"W	14133.75	157.404	0.78	0.45	-0.63	
21238.00	91.200	160.680	6884.93	14195.06	-13137.56	5461.49	1712988.05	14263450.96	39°16'42.6974"N	80°44'36.7764"W	14227.56	157.427	0.45	-0.36	-0.27	
21333.00	91.630	161.830	6882.58	14290.03	-13227.50	5492.01	1713018.55	14263361.06	39°16'41.8077"N	80°44'36.3916"W	14322.32	157.452	1.29	0.45	1.21	
21427.00	91.850	162.070	6879.73	14383.98	-13316.83	5521.13	1713047.65	14263271.77	39°16'40.9239"N	80°44'36.0246"W	14415.99	157.481	0.35	0.23	0.26	
21522.00	91.790	161.340	6876.71	14478.93	-13406.98	5550.93	1713077.45	14263181.65	39°16'40.0320"N	80°44'35.6488"W	14510.68	157.509	0.77	-0.06	-0.77	
21616.00	91.970	161.780	6873.62	14572.88	-13496.11	5580.65	1713107.15	14263092.56	39°16'39.1503"N	80°44'35.2742"W	14604.40	157.535	0.51	0.19	0.47	
21711.00	91.660	162.010	6870.62	14667.83	-13586.36	5610.16	1713136.65	14263002.34	39°16'38.2575"N	80°44'34.9022"W	14699.08	157.563	0.41	-0.33	0.24	
21806.00	91.820	162.250	6867.73	14762.77	-13676.73	5639.29	1713165.78	14262912.01	39°16'37.3634"N	80°44'34.5349"W	14793.74	157.592	0.30	0.17	0.25	
21901.00	91.850	162.070	6864.69	14857.71	-13767.12	5668.38	1713194.85	14262821.66	39°16'36.4693"N	80°44'34.1683"W	14888.39	157.621	0.19	0.03	-0.19	



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

WELLPATH DATA (245 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
21995.00	91.690	161.730	6861.79	14951.66	-13856.42	5697.57	1713224.03	14262732.39	39°16'35.5858"N	80°44'33.8004"W	14982.08	157.648	0.40	-0.17	-0.36	
22089.00	91.820	161.060	6858.91	15045.62	-13945.47	5727.55	1713254.00	14262643.38	39°16'34.7048"N	80°44'33.4224"W	15075.84	157.672	0.73	0.14	-0.71	
22184.00	91.780	161.910	6855.92	15140.57	-14035.51	5757.70	1713284.14	14262553.37	39°16'33.8141"N	80°44'33.0422"W	15170.58	157.695	0.90	-0.04	0.89	
22218.00	91.880	161.500	6854.84	15174.55	-14067.77	5768.37	1713294.80	14262521.12	39°16'33.4949"N	80°44'32.9078"W	15204.48	157.704	1.24	0.29	-1.21	
22243.00‡	91.880	161.500	6854.02	15199.54	-14091.47	5776.30	1713302.72	14262497.44	39°16'33.2605"N	80°44'32.8078"W	15229.41	157.711	0.00	0.00	0.00	Projected MD at TD: 22243'

HOLE & CASING SECTIONS - Ref Wellbore: McKean Unit 1H AWB Ref Wellpath: McKean Unit 1H AWP Proj: 22243'									
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	130.00	100.00	30.00	130.00	0.00	0.00	-0.17	-0.29
17.5in Open Hole	130.00	350.00	220.00	130.00	349.99	-0.17	-0.29	-1.16	-1.32
13.375in Casing Surface	30.00	330.00	300.00	30.00	330.00	0.00	0.00	-1.02	-1.20
12.25in Open Hole	350.00	2582.00	2232.00	349.99	2553.74	-1.16	-1.32	232.57	226.39
9.625in Casing Intermediate	30.00	2557.00	2527.00	30.00	2529.16	0.00	0.00	228.68	224.03
8.75in Open Hole	2582.00	6527.00	3945.00	2553.74	6434.77	232.57	226.39	498.76	705.14
8.5in Open Hole	6527.00	22243.00	15716.00	6434.77	6854.02	498.76	705.14	-14091.47	5776.30
5.5in Casing Production	30.00	22223.00	22193.00	30.00	6854.67	0.00	0.00	-14072.51	5769.95



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McKean Unit 1H POE Rev-2	6898.00	294.05	916.00	1708444.36	14276877.24	39°18'55.5744"N	80°45'34.1248"W	point
McKean Unit 1H POE Rev-3	6898.00	183.01	900.80	1708429.16	14276766.25	39°18'54.4774"N	80°45'34.3220"W	point
McKean Unit 1H AZI Rev-1	6941.00	-346.25	1132.70	1708660.97	14276237.20	39°18'49.2403"N	80°45'31.3895"W	point
McKean Unit 1H BHL Rev-2	6941.00	-14080.99	5781.01	1713307.44	14262507.91	39°16'33.3639"N	80°44'32.7474"W	point
McKean Unit 1H LP Rev-3	6941.00	-12.87	995.95	1708524.27	14276570.45	39°18'52.5388"N	80°45'33.1180"W	point
McKean Unit 1H 50' L/R Hard Line	7250.00	-6893.47	3348.51	1710875.90	14269692.57	39°17'44.4704"N	80°45'3.4275"W	rectangle
2D Rectangle 15176 x 100.								

## WELLPATH COMPOSITION - Ref Wellbore: McKean Unit 1H AWB Ref Wellpath: McKean Unit 1H AWP Proj: 22243'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	380.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-380')	McKean Unit 1H AWB	4/12/2022
380.00	2507.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (380')(413'-2507')	McKean Unit 1H AWB	4/12/2022
2507.00	6447.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (2507')(2659'-6447')	McKean Unit 1H AWB	4/25/2022
6447.00	22243.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (6447')(6566'-22218')	McKean Unit 1H AWB	4/25/2022



# Actual Wellpath Report

McKean Unit 1H AWP Proj: 22243'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 1H
Field	Doddridge	API	47-017-06914-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 1H AWB
Slot	Slot F		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-017-06914-0000 BH Job #: 111277238 Rig: H&amp;P 531 Duration: 4/28/2022-5/2/2022 Gyrodatta MS Gyro &lt;17-1/2"&gt; (100'-380') APS EM &lt;12-1/4"&gt; (380')(413'-2507') APS EM &lt;8-3/4"&gt; (2507')(2659'-6447') BH AT Curve &lt;8-1/2"&gt; (6447')(6566'-22218') Sycamore: 6566' MD Middlesex: 6795' MD Burkett: 6984' MD Tully: 7034' MD Marcellus POE: 7162' MD Projected MD at TD: 22243'</p>