



# ANTERO RESOURCES CORPORATION

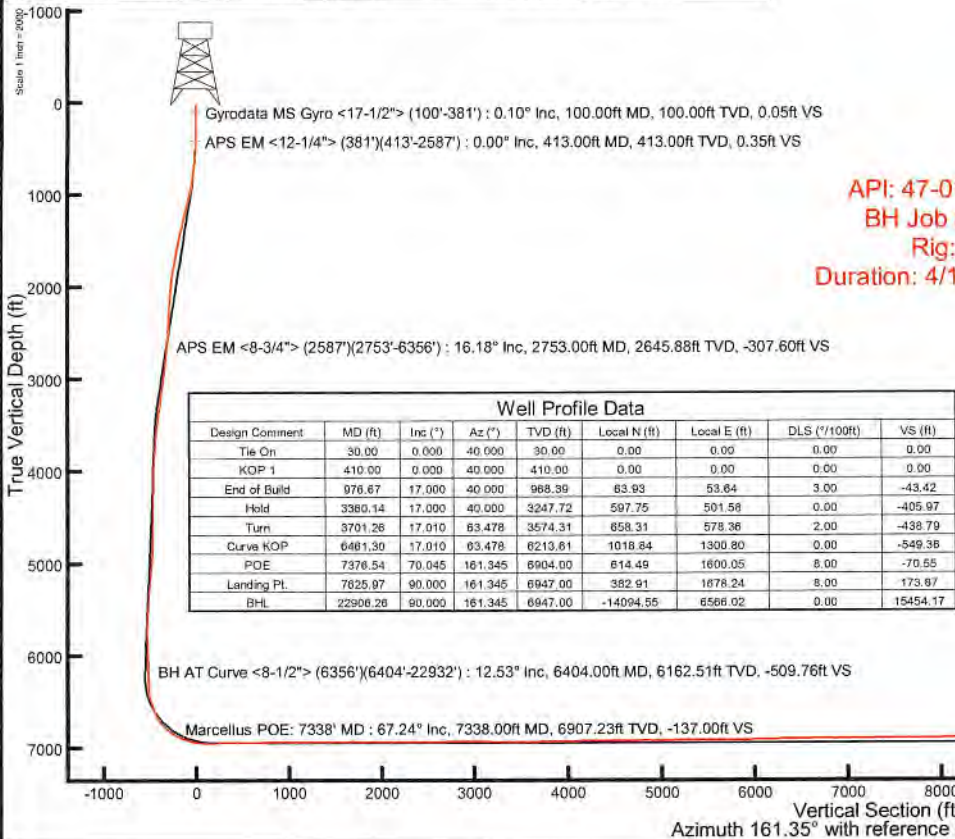


Location: Doddridge Co., WV  
 Field: Doddridge  
 Facility: Gaspar Pad

Slot: Slot G  
 Well: McKean Unit 2H  
 Wellbore: McKean Unit 2H PWB

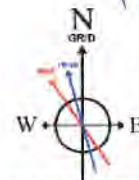
Plot reference wellpath is McKean Unit 2H PWP Rev-A.1	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath mass land depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1210 feet	Coordinates are in feet referenced to Slat
Mean Sea Level to Ground level (At Slot: Slot G) = -1189 feet	Depth are in feet
Offset wellpath MDs are referenced to each path's detail MD datum	Created by: odsarjan on 2022-05-11; Database: WA_MFL_EASTERNUS_Data

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gaspar Pad	1707488.590	14276538.460	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 G	53.81	72.16	1707540.720	14278502.240
			39° 18' 52.7800"N	80° 45' 45.6360"W
Well Data				
Slot	Well	Wellbore	Wellpath	
Slot G	McKean Unit 2H	McKean Unit 2H AWB	McKean Unit 2H AWP Proj: 22956	
Slot G	McKean Unit 2H	McKean Unit 2H PWB	McKean Unit 2H PWP Rev-A.1	

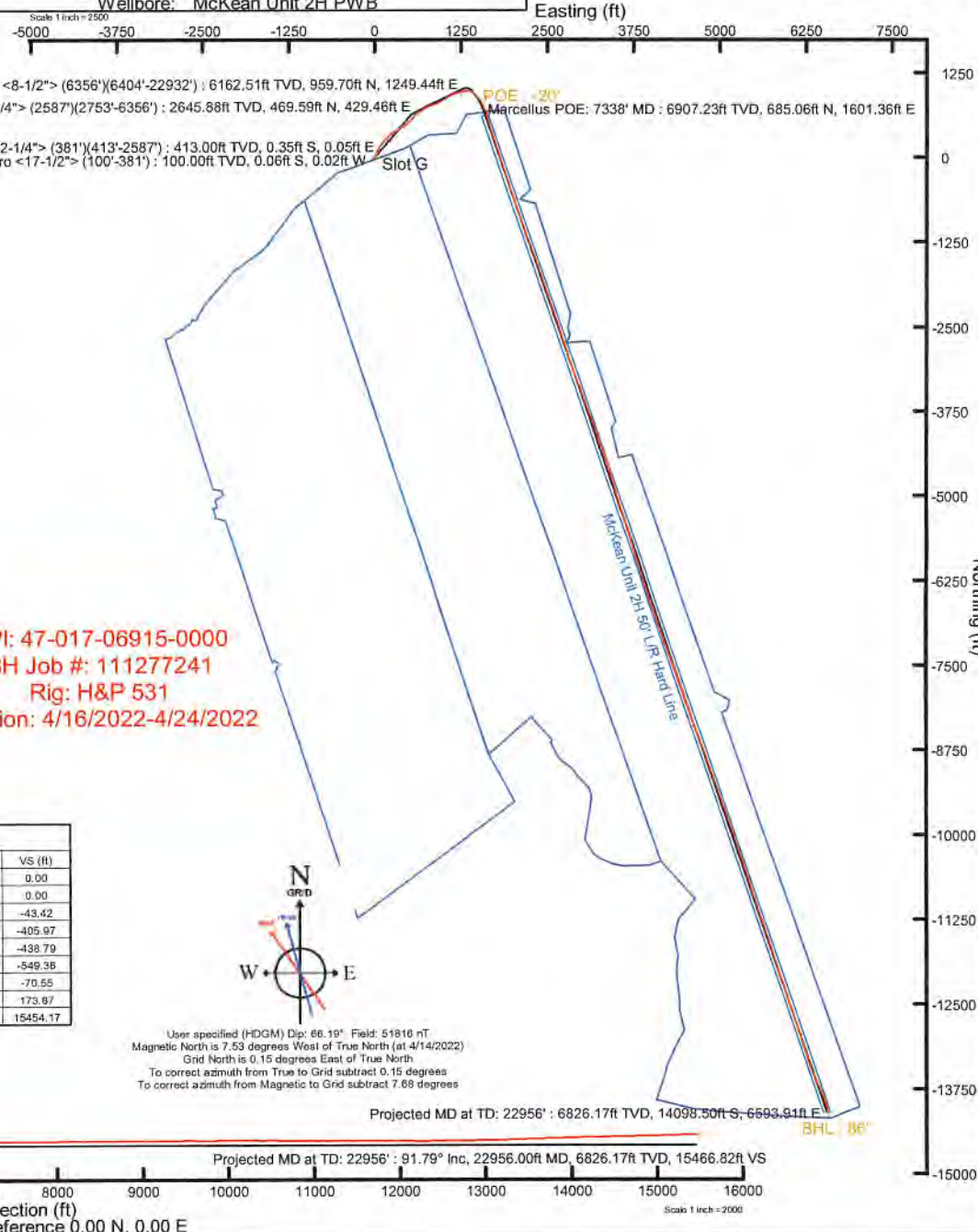


Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	30.00	0.000	40.000	30.00	0.00	0.00	0.00
KOP 1	410.00	0.000	40.000	410.00	0.00	0.00	0.00
End of Build	976.67	17.000	40.000	988.39	63.93	53.64	-43.42
Hold	3380.14	17.000	40.000	3247.72	597.75	501.56	-405.97
Turn	3701.26	17.010	63.478	3574.31	658.31	578.36	-438.79
Curve KOP	6481.30	17.010	63.478	6213.61	1018.84	1300.80	-549.36
POE	7376.54	70.045	161.345	6904.00	614.49	1600.05	-70.55
Landing Pt.	7625.97	90.000	161.345	6947.00	382.91	1678.24	-173.87
BHL	22906.26	60.000	161.345	6947.00	-14094.95	6566.02	0.00

API: 47-017-06915-0000  
 BH Job #: 111277241  
 Rig: H&P 531  
 Duration: 4/16/2022-4/24/2022



User specified (HDGM) Dip: 66.19° Field: 51816 nT  
 Magnetic North is 7.53 degrees West of True North (at 4/14/2022)  
 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





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

## 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 2:12:27 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	53.81	72.16	1707540.72	14276592.24	39°18'52.7800"N	80°45'45.6360"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 G)	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	161.35°





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
0.00†	0.000	203.000	0.00	0.00	0.00	0.00	1707540.72	14276592.24	39°18'52.7800"N	80°45'45.6360"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	203.000	30.00	0.00	0.00	0.00	1707540.72	14276592.24	39°18'52.7800"N	80°45'45.6360"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.100	203.000	100.00	0.05	-0.06	-0.02	1707540.70	14276592.18	39°18'52.7795"N	80°45'45.6363"W	0.06	203.000	0.14	0.14	0.00	Gyrodata MS Gyro <17-1/2"> (100'-381')
200.00	0.060	179.720	200.00	0.16	-0.19	-0.06	1707540.66	14276592.05	39°18'52.7782"N	80°45'45.6367"W	0.20	196.987	0.05	-0.04	-23.28	
300.00	0.030	179.700	300.00	0.24	-0.27	-0.06	1707540.66	14276591.97	39°18'52.7774"N	80°45'45.6367"W	0.27	192.096	0.03	-0.03	-0.02	
381.00	0.130	119.090	381.00	0.32	-0.33	0.02	1707540.74	14276591.91	39°18'52.7767"N	80°45'45.6357"W	0.33	176.037	0.15	0.12	-74.83	
413.00	0.000	352.320	413.00	0.35	-0.35	0.05	1707540.77	14276591.89	39°18'52.7766"N	80°45'45.6353"W	0.36	171.123	0.41	-0.41	0.00	APS EM <12-1/4"> (381')(413'-2587')
504.00	0.990	13.490	504.00	-0.32	0.41	0.24	1707540.96	14276592.65	39°18'52.7841"N	80°45'45.6329"W	0.48	29.946	1.09	1.09	0.00	
594.00	3.370	13.310	593.92	-3.22	3.74	1.03	1707541.75	14276595.98	39°18'52.8170"N	80°45'45.6228"W	3.88	15.362	2.64	2.64	-0.20	
684.00	6.030	18.420	683.61	-9.24	10.80	3.13	1707543.85	14276603.04	39°18'52.8867"N	80°45'45.5958"W	11.25	16.164	2.99	2.96	5.68	
774.00	9.150	24.110	772.81	-18.26	21.82	7.55	1707548.27	14276614.06	39°18'52.9955"N	80°45'45.5392"W	23.09	19.082	3.56	3.47	6.32	
865.00	12.500	24.670	862.18	-30.74	37.38	14.62	1707555.33	14276629.61	39°18'53.1491"N	80°45'45.4487"W	40.14	21.357	3.68	3.68	0.62	
955.00	15.880	23.560	949.42	-46.96	57.53	23.61	1707564.32	14276649.74	39°18'53.3480"N	80°45'45.3337"W	62.18	22.312	3.77	3.76	-1.23	
1046.00	17.640	23.550	1036.56	-66.39	81.58	34.09	1707574.80	14276673.79	39°18'53.5854"N	80°45'45.1995"W	88.42	22.681	1.93	1.93	-0.01	
1141.00	18.630	26.140	1126.84	-87.83	108.40	46.53	1707587.23	14276700.59	39°18'53.8502"N	80°45'45.0403"W	117.96	23.232	1.34	1.04	2.73	
1235.00	19.700	28.540	1215.63	-109.25	135.80	60.72	1707601.41	14276727.98	39°18'54.1206"N	80°45'44.8590"W	148.75	24.090	1.41	1.14	2.55	
1330.00	20.280	29.530	1304.90	-131.11	164.19	76.48	1707617.17	14276756.36	39°18'54.4008"N	80°45'44.6574"W	181.13	24.977	0.71	0.61	1.04	
1425.00	22.140	36.490	1393.48	-152.32	192.91	95.25	1707635.93	14276785.08	39°18'54.6842"N	80°45'44.4177"W	215.14	26.277	3.29	1.96	7.33	
1519.00	22.080	38.970	1480.57	-171.91	220.89	116.89	1707657.56	14276813.04	39°18'54.9602"N	80°45'44.1414"W	249.91	27.887	1.00	-0.06	2.64	
1614.00	22.380	46.130	1568.52	-189.18	247.31	141.16	1707681.83	14276839.45	39°18'55.2207"N	80°45'43.8317"W	284.76	29.717	2.87	0.32	7.54	
1709.00	22.760	44.490	1656.25	-205.19	272.95	167.08	1707707.73	14276865.08	39°18'55.4735"N	80°45'43.5011"W	320.03	31.472	0.77	0.40	-1.73	
1803.00	23.160	43.710	1742.80	-221.98	299.29	192.60	1707733.24	14276891.41	39°18'55.7331"N	80°45'43.1756"W	355.90	32.762	0.53	0.43	-0.83	
1898.00	22.100	45.530	1830.49	-238.43	325.31	218.26	1707758.89	14276917.42	39°18'55.9896"N	80°45'42.8482"W	391.74	33.859	1.34	-1.12	1.92	
1992.00	19.740	52.430	1918.30	-251.28	347.38	243.47	1707784.09	14276939.49	39°18'56.2071"N	80°45'42.5267"W	424.21	35.025	3.63	-2.51	7.34	
2087.00	18.710	55.950	2008.00	-260.53	365.70	268.81	1707809.42	14276957.79	39°18'56.3875"N	80°45'42.2037"W	453.86	36.318	1.63	-1.08	3.71	
2182.00	17.260	57.240	2098.36	-268.02	381.86	293.29	1707833.89	14276973.95	39°18'56.5465"N	80°45'41.8917"W	481.49	37.526	1.58	-1.53	1.36	
2276.00	15.780	59.000	2188.48	-274.15	395.99	315.97	1707856.57	14276988.07	39°18'56.6856"N	80°45'41.6026"W	506.60	38.588	1.66	-1.57	1.87	
2371.00	16.400	58.750	2279.75	-279.84	409.60	338.51	1707879.09	14277001.67	39°18'56.8195"N	80°45'41.3154"W	531.37	39.572	0.66	0.65	-0.26	
2465.00	16.620	57.120	2369.88	-286.04	423.78	361.14	1707901.72	14277015.85	39°18'56.9591"N	80°45'41.0269"W	556.79	40.438	0.55	0.23	-1.73	
2560.00	16.840	57.360	2460.86	-292.70	438.58	384.14	1707924.71	14277030.64	39°18'57.1048"N	80°45'40.7338"W	583.02	41.214	0.24	0.23	0.25	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 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
2587.00	16.800	56.860	2486.70	-294.63	442.82	390.70	1707931.27	14277034.88	39°18'57.1465"N	80°45'40.6502"W	590.54	41.422	0.56	-0.15	-1.85	
2753.00	16.180	53.820	2645.88	-307.60	469.59	429.46	1707970.01	14277061.64	39°18'57.4101"N	80°45'40.1562"W	636.35	42.444	0.64	-0.37	-1.83	APS EM <8-3/4"> (2587)(2753-6356)
2848.00	15.660	52.690	2737.23	-315.68	485.17	450.34	1707990.88	14277077.22	39°18'57.5636"N	80°45'39.8900"W	661.97	42.868	0.64	-0.55	-1.19	
2942.00	14.780	51.640	2827.93	-323.79	500.30	469.83	1708010.37	14277092.35	39°18'57.7126"N	80°45'39.6415"W	686.33	43.201	0.98	-0.94	-1.12	
3037.00	16.210	48.810	2919.48	-332.96	516.56	489.31	1708029.84	14277108.59	39°18'57.8728"N	80°45'39.3931"W	711.52	43.449	1.70	1.51	-2.98	
3132.00	16.580	44.210	3010.62	-344.22	535.01	508.75	1708049.26	14277127.04	39°18'58.0546"N	80°45'39.1452"W	738.28	43.559	1.42	0.39	-4.84	
3226.00	14.900	42.850	3101.09	-356.11	553.48	526.32	1708066.83	14277145.50	39°18'58.2367"N	80°45'38.9210"W	763.78	43.559	1.83	-1.79	-1.45	
3323.00	16.020	41.380	3194.58	-368.75	572.67	543.65	1708084.15	14277164.68	39°18'58.4259"N	80°45'38.6999"W	789.62	43.511	1.22	1.15	-1.52	
3418.00	16.340	41.100	3285.82	-382.03	592.58	561.10	1708101.59	14277184.58	39°18'58.6222"N	80°45'38.4772"W	816.07	43.437	0.35	0.34	-0.29	
3513.00	15.330	35.860	3377.22	-396.05	612.82	577.24	1708117.73	14277204.82	39°18'58.8219"N	80°45'38.2711"W	841.88	43.287	1.84	-1.06	-5.52	
3608.00	15.110	41.310	3468.89	-409.54	632.30	592.77	1708133.26	14277224.29	39°18'59.0140"N	80°45'38.0729"W	866.71	43.152	1.52	-0.23	5.74	
3702.00	17.860	54.040	3559.05	-419.97	649.98	612.54	1708153.01	14277241.96	39°18'59.1882"N	80°45'37.8208"W	893.13	43.301	4.81	2.93	13.54	
3797.00	17.850	57.720	3649.48	-427.73	666.31	636.64	1708177.11	14277258.29	39°18'59.3490"N	80°45'37.5136"W	921.56	43.695	1.19	-0.01	3.87	
3891.00	16.710	58.220	3739.23	-434.20	681.12	660.31	1708200.77	14277273.09	39°18'59.4948"N	80°45'37.2119"W	948.65	44.111	1.22	-1.21	0.53	
3986.00	15.930	55.040	3830.40	-440.96	695.79	682.60	1708223.05	14277287.75	39°18'59.6391"N	80°45'36.9278"W	974.71	44.452	1.25	-0.82	-3.35	
4081.00	15.170	61.040	3921.93	-446.85	709.28	704.16	1708244.61	14277301.24	39°18'59.7719"N	80°45'36.6530"W	999.46	44.793	1.87	-0.80	6.32	
4175.00	15.800	69.580	4012.53	-449.45	719.70	726.92	1708267.35	14277311.65	39°18'59.8743"N	80°45'36.3631"W	1022.93	45.286	2.51	0.67	9.09	
4270.00	14.280	67.660	4104.28	-450.60	728.66	749.88	1708290.30	14277320.62	39°18'59.9623"N	80°45'36.0706"W	1045.60	45.822	1.68	-1.60	-2.02	
4365.00	12.520	64.210	4196.69	-452.63	737.60	769.99	1708310.41	14277329.55	39°19'0.0501"N	80°45'35.8145"W	1066.27	46.231	2.03	-1.85	-3.63	
4460.00	12.420	64.870	4289.45	-455.07	746.42	788.51	1708328.92	14277338.36	39°19'0.1368"N	80°45'35.5785"W	1085.77	46.571	0.18	-0.11	0.69	
4555.00	11.760	63.800	4382.34	-457.49	755.03	806.45	1708346.85	14277346.97	39°19'0.2214"N	80°45'35.3500"W	1104.73	46.886	0.73	-0.69	-1.13	
4649.00	12.150	64.800	4474.30	-459.88	763.47	823.99	1708364.39	14277355.41	39°19'0.3044"N	80°45'35.1265"W	1123.32	47.183	0.47	0.41	1.06	
4744.00	16.070	71.950	4566.42	-460.88	771.81	845.55	1708385.94	14277363.74	39°19'0.3862"N	80°45'34.8519"W	1144.83	47.611	4.51	4.13	7.53	
4838.00	16.860	71.590	4656.57	-460.69	780.14	870.86	1708411.23	14277372.07	39°19'0.4679"N	80°45'34.5297"W	1169.19	48.145	0.85	0.84	-0.38	
4933.00	14.660	67.390	4747.99	-461.46	789.12	895.03	1708435.39	14277381.04	39°19'0.5560"N	80°45'34.2218"W	1193.22	48.598	2.61	-2.32	-4.42	
5028.00	15.380	65.470	4839.75	-463.58	798.97	917.59	1708457.94	14277390.89	39°19'0.6528"N	80°45'33.9345"W	1216.68	48.953	0.92	0.76	-2.02	
5122.00	20.440	60.490	4929.17	-467.96	812.24	943.23	1708483.58	14277404.16	39°19'0.7833"N	80°45'33.6078"W	1244.75	49.267	5.62	5.38	-5.30	
5217.00	20.300	58.570	5018.23	-474.73	829.00	971.73	1708512.06	14277420.91	39°19'0.9482"N	80°45'33.2446"W	1277.30	49.532	0.72	-0.15	-2.02	
5312.00	18.370	53.140	5107.87	-483.05	846.58	997.77	1708538.10	14277438.48	39°19'1.1212"N	80°45'32.9127"W	1308.53	49.686	2.77	-2.03	-5.72	
5407.00	16.000	54.630	5198.63	-491.50	863.14	1020.43	1708560.74	14277455.04	39°19'1.2843"N	80°45'32.6238"W	1336.52	49.773	2.54	-2.49	1.57	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'

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Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

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5501.00	14.110	53.880	5289.40	-498.66	877.39	1040.25	1708580.56	14277469.29	39°19'1.4247"N	80°45'32.3712"W	1360.86	49.854	2.02	-2.01	-0.80	
5596.00	14.420	56.380	5381.47	-505.20	890.77	1059.45	1708599.75	14277482.66	39°19'1.5564"N	80°45'32.1264"W	1384.17	49.943	0.73	0.33	2.63	
5691.00	15.890	58.850	5473.16	-511.07	904.05	1080.44	1708620.73	14277495.93	39°19'1.6871"N	80°45'31.8589"W	1408.77	50.079	1.69	1.55	2.60	
5785.00	15.410	60.770	5563.68	-516.15	916.80	1102.35	1708642.63	14277508.68	39°19'1.8125"N	80°45'31.5797"W	1433.77	50.250	0.75	-0.51	2.04	
5880.00	13.260	60.170	5655.71	-520.58	928.39	1122.82	1708663.09	14277520.26	39°19'1.9265"N	80°45'31.3189"W	1456.92	50.415	2.27	-2.26	-0.63	
5975.00	9.810	63.830	5748.78	-523.75	937.38	1139.54	1708679.80	14277529.25	39°19'2.0149"N	80°45'31.1058"W	1475.54	50.559	3.71	-3.63	3.85	
6071.00	15.200	84.240	5842.52	-522.01	942.25	1159.42	1708699.68	14277534.12	39°19'2.0626"N	80°45'30.8527"W	1494.02	50.899	7.18	5.61	21.26	
6166.00	18.550	77.310	5933.42	-517.66	946.83	1186.57	1708726.81	14277538.69	39°19'2.1071"N	80°45'30.5072"W	1518.03	51.412	4.11	3.53	-7.29	
6261.00	15.900	78.620	6024.15	-514.44	952.71	1214.07	1708754.31	14277544.58	39°19'2.1645"N	80°45'30.1570"W	1543.25	51.878	2.82	-2.79	1.38	
6356.00	14.440	79.250	6115.84	-511.17	957.49	1238.47	1708778.69	14277549.35	39°19'2.2111"N	80°45'29.8464"W	1565.44	52.291	1.55	-1.54	0.66	
6404.00	12.530	77.870	6162.51	-509.76	959.70	1249.44	1708789.66	14277551.56	39°19'2.2327"N	80°45'29.7068"W	1575.47	52.472	4.03	-3.98	-2.88	BH AT Curve <8-1/2"> (6356')(6404'-22932')
6474.00	13.690	75.950	6230.69	-508.23	963.31	1264.90	1708805.11	14277555.17	39°19'2.2679"N	80°45'29.5099"W	1589.95	52.708	1.77	1.66	-2.74	
6569.00	21.080	72.550	6321.29	-506.97	971.17	1292.14	1708832.35	14277563.03	39°19'2.3449"N	80°45'29.1631"W	1616.42	53.071	7.85	7.78	-3.58	
6664.00	24.800	83.480	6408.80	-502.42	978.56	1328.26	1708868.45	14277570.42	39°19'2.4170"N	80°45'28.7032"W	1649.81	53.620	5.94	3.92	11.51	
6750.00†	26.047	101.456	6486.59	-489.14	976.86	1364.74	1708904.92	14277568.71	39°19'2.3992"N	80°45'28.2391"W	1678.33	54.406	9.06	1.45	20.90	Sycamore: 6750' MD
6758.00	26.270	103.020	6493.77	-487.33	976.11	1368.19	1708908.37	14277567.96	39°19'2.3917"N	80°45'28.1953"W	1680.69	54.495	9.06	2.79	19.55	
6853.00	28.760	120.360	6578.15	-458.99	959.79	1408.46	1708948.62	14277551.65	39°19'2.2294"N	80°45'27.6834"W	1704.40	55.728	8.80	2.62	18.25	
6948.00	32.640	130.020	6659.87	-419.81	931.74	1447.84	1708987.99	14277523.61	39°19'1.9511"N	80°45'27.1833"W	1721.74	57.237	6.59	4.08	10.17	
6987.00†	35.862	134.204	6692.11	-400.66	917.01	1464.09	1709004.23	14277508.88	39°19'1.8050"N	80°45'26.9771"W	1727.56	57.940	10.23	8.26	10.73	Middlesex: 6987' MD
7042.00	40.610	139.090	6735.31	-369.73	892.23	1487.38	1709027.51	14277484.11	39°19'1.5595"N	80°45'26.6816"W	1734.47	59.042	10.23	8.63	8.88	
7137.00	49.420	147.080	6802.45	-305.98	838.43	1527.35	1709067.46	14277430.34	39°19'1.0267"N	80°45'26.1749"W	1742.34	61.236	11.00	9.27	8.41	
7175.00†	52.877	150.222	6826.29	-277.11	813.15	1542.72	1709082.83	14277405.07	39°19'0.7765"N	80°45'25.9802"W	1743.91	62.207	11.14	9.10	8.27	Burkett: 7175' MD
7224.00†	57.445	153.871	6854.28	-237.44	777.63	1561.53	1709101.63	14277369.56	39°19'0.4249"N	80°45'25.7421"W	1744.45	63.527	11.14	9.32	7.45	Tully: 7224' MD
7232.00	58.200	154.430	6858.54	-230.72	771.54	1564.48	1709104.58	14277363.47	39°19'0.3646"N	80°45'25.7047"W	1744.39	63.749	11.14	9.44	6.99	
7326.00	66.050	158.660	6902.47	-148.00	695.35	1597.42	1709137.51	14277287.31	39°18'59.6107"N	80°45'25.2883"W	1742.20	66.477	9.25	8.35	4.50	
7338.00†	67.242	159.430	6907.23	-137.00	685.06	1601.36	1709141.44	14277277.03	39°18'59.5089"N	80°45'25.2385"W	1741.74	66.839	11.55	9.93	6.42	Marcellus POE: 7338' MD
7421.00	75.570	164.440	6933.69	-58.43	610.34	1625.64	1709165.72	14277202.34	39°18'58.7697"N	80°45'24.9321"W	1736.44	69.422	11.55	10.03	6.04	
7516.00	84.880	164.390	6949.80	34.95	520.26	1650.77	1709190.83	14277112.30	39°18'57.8788"N	80°45'24.6155"W	1730.81	72.507	9.80	9.80	-0.05	
7611.00	90.550	163.640	6953.58	129.73	429.05	1676.90	1709216.95	14277021.12	39°18'56.9765"N	80°45'24.2861"W	1730.92	75.648	6.02	5.97	-0.79	
7705.00	90.950	162.520	6952.35	223.68	339.12	1704.25	1709244.30	14276931.23	39°18'56.0870"N	80°45'23.9412"W	1737.67	78.746	1.27	0.43	-1.19	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 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
7800.00	90.580	161.560	6951.09	318.66	248.76	1733.54	1709273.58	14276840.90	39°18'55.1932"N	80°45'23.5716"W	1751.30	81.834	1.08	-0.39	-1.01	
7895.00	90.550	161.770	6950.15	413.66	158.59	1763.43	1709303.45	14276750.77	39°18'54.3011"N	80°45'23.1945"W	1770.54	84.861	0.22	-0.03	0.22	
7989.00	91.020	162.460	6948.86	507.64	69.14	1792.29	1709332.30	14276661.35	39°18'53.4163"N	80°45'22.8303"W	1793.63	87.791	0.89	0.50	0.73	
8084.00	90.310	161.560	6947.76	602.62	-21.21	1821.63	1709361.63	14276571.04	39°18'52.5225"N	80°45'22.4601"W	1821.75	90.667	1.21	-0.75	-0.95	
8178.00	91.320	161.370	6946.42	696.61	-110.32	1851.51	1709391.49	14276481.96	39°18'51.6410"N	80°45'22.0831"W	1854.79	93.410	1.09	1.07	-0.20	
8273.00	91.050	162.370	6944.46	791.59	-200.58	1881.06	1709421.04	14276391.74	39°18'50.7481"N	80°45'21.7101"W	1891.73	96.087	1.09	-0.28	1.05	
8367.00	90.340	161.910	6943.32	885.57	-290.05	1909.89	1709449.85	14276302.31	39°18'49.8631"N	80°45'21.3465"W	1931.79	98.635	0.90	-0.76	-0.49	
8462.00	90.370	161.580	6942.73	980.57	-380.26	1939.65	1709479.60	14276212.13	39°18'48.9706"N	80°45'20.9709"W	1976.57	101.092	0.35	0.03	-0.35	
8557.00	90.550	162.010	6941.97	1075.56	-470.50	1969.33	1709509.26	14276121.92	39°18'48.0779"N	80°45'20.5965"W	2024.75	103.437	0.49	0.19	0.45	
8746.00	90.580	162.340	6940.10	1264.53	-650.42	2027.18	1709567.09	14275942.08	39°18'46.2981"N	80°45'19.8666"W	2128.97	107.789	0.18	0.02	0.17	
8841.00	90.060	160.820	6939.57	1359.53	-740.55	2057.20	1709597.10	14275851.98	39°18'45.4065"N	80°45'19.4878"W	2186.43	109.798	1.69	-0.55	-1.60	
8935.00	89.850	160.170	6939.64	1453.52	-829.16	2088.58	1709628.47	14275763.41	39°18'44.5299"N	80°45'19.0916"W	2247.15	111.653	0.73	-0.22	-0.69	
9030.00	90.000	161.110	6939.77	1548.51	-918.78	2120.07	1709659.95	14275673.82	39°18'43.6432"N	80°45'18.6940"W	2310.60	113.431	1.00	0.16	0.99	
9125.00	90.710	160.980	6939.18	1643.50	-1008.63	2150.93	1709690.80	14275584.01	39°18'42.7544"N	80°45'18.3045"W	2375.68	115.123	0.76	0.75	-0.14	
9219.00	88.920	161.090	6939.48	1737.50	-1097.52	2181.48	1709721.33	14275495.15	39°18'41.8750"N	80°45'17.9189"W	2442.01	116.707	1.91	-1.90	0.12	
9314.00	90.430	159.710	6940.02	1832.48	-1187.01	2213.34	1709753.19	14275405.70	39°18'40.9897"N	80°45'17.5166"W	2511.55	118.205	2.15	1.59	-1.45	
9409.00	89.850	162.800	6939.79	1927.47	-1276.96	2243.87	1709783.70	14275315.79	39°18'40.0998"N	80°45'17.1313"W	2581.78	119.644	3.31	-0.61	3.25	
9503.00	88.650	157.610	6941.02	2021.41	-1365.37	2275.69	1709815.50	14275227.41	39°18'39.2252"N	80°45'16.7296"W	2653.86	120.963	5.67	-1.28	-5.52	
9598.00	90.580	162.200	6941.66	2116.34	-1454.55	2308.32	1709848.12	14275138.26	39°18'38.3428"N	80°45'16.3176"W	2728.38	122.217	5.24	2.03	4.83	
9693.00	89.910	159.150	6941.25	2211.32	-1544.19	2339.75	1709879.54	14275048.66	39°18'37.4561"N	80°45'15.9207"W	2803.38	123.424	3.29	-0.71	-3.21	
9787.00	89.540	160.180	6941.71	2305.28	-1632.33	2372.41	1709912.19	14274960.56	39°18'36.5840"N	80°45'15.5082"W	2879.73	124.530	1.16	-0.39	1.10	
9882.00	90.490	162.250	6941.68	2400.27	-1722.26	2403.00	1709942.77	14274870.66	39°18'35.6943"N	80°45'15.1222"W	2956.45	125.630	2.40	1.00	2.18	
9977.00	90.650	162.050	6940.74	2495.26	-1812.69	2432.12	1709971.88	14274780.27	39°18'34.7999"N	80°45'14.7548"W	3033.32	126.698	0.27	0.17	-0.21	
10071.00	90.340	161.350	6939.92	2589.25	-1901.93	2461.64	1710001.38	14274691.07	39°18'33.9170"N	80°45'14.3824"W	3110.79	127.691	0.81	-0.33	-0.74	
10166.00	90.550	160.410	6939.19	2684.25	-1991.68	2492.75	1710032.48	14274601.35	39°18'33.0291"N	80°45'13.9897"W	3190.71	128.624	1.01	0.22	-0.99	
10261.00	90.770	162.410	6938.09	2779.24	-2081.72	2523.03	1710062.75	14274511.35	39°18'32.1384"N	80°45'13.6076"W	3270.97	129.525	2.12	0.23	2.11	
10355.00	89.260	162.320	6938.07	2873.22	-2171.30	2551.51	1710091.22	14274421.81	39°18'31.2523"N	80°45'13.2484"W	3350.33	130.397	1.61	-1.61	-0.10	
10450.00	90.550	159.780	6938.22	2968.21	-2261.14	2582.36	1710122.05	14274332.00	39°18'30.3635"N	80°45'12.8591"W	3432.39	131.206	3.00	1.36	-2.67	
10545.00	89.540	162.710	6938.15	3063.20	-2351.08	2612.90	1710152.58	14274242.09	39°18'29.4737"N	80°45'12.4737"W	3514.94	131.981	3.26	-1.06	3.08	
10734.00	89.630	161.840	6939.52	3252.16	-2531.10	2670.44	1710210.10	14274062.14	39°18'27.6929"N	80°45'11.7479"W	3679.36	133.466	0.46	0.05	-0.46	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 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
10829.00	90.460	162.650	6939.44	3347.15	-2621.58	2699.41	1710239.06	14273971.70	39°18'26.7979"N	80°45'11.3825"W	3762.91	134.162	1.22	0.87	0.85	
11018.00	88.120	160.980	6941.79	3536.11	-2801.10	2758.38	1710298.01	14273792.25	39°18'25.0219"N	80°45'10.6385"W	3931.27	135.440	1.52	-1.24	-0.88	
11112.00	92.460	163.430	6941.31	3630.07	-2890.58	2787.10	1710326.71	14273702.81	39°18'24.1368"N	80°45'10.2763"W	4015.39	136.044	5.30	4.62	2.61	
11302.00	90.830	160.740	6935.86	3819.95	-3071.27	2845.51	1710385.11	14273522.19	39°18'22.3493"N	80°45'9.5394"W	4186.84	137.185	1.65	-0.86	-1.42	
11396.00	89.050	160.970	6935.95	3913.94	-3160.06	2876.34	1710415.92	14273433.43	39°18'21.4709"N	80°45'9.1504"W	4273.10	137.691	1.91	-1.89	0.24	
11491.00	91.200	160.270	6935.75	4008.93	-3249.68	2907.86	1710447.43	14273343.85	39°18'20.5843"N	80°45'8.7525"W	4360.74	138.177	2.38	2.26	-0.74	
11586.00	91.690	158.620	6933.35	4103.84	-3338.60	2941.21	1710480.76	14273254.97	39°18'19.7046"N	80°45'8.3314"W	4449.37	138.621	1.81	0.52	-1.74	
11775.00	91.050	161.280	6928.83	4292.71	-3516.07	3005.98	1710545.51	14273077.56	39°18'17.9487"N	80°45'7.5136"W	4625.87	139.472	1.45	-0.34	1.41	
11870.00	89.290	157.590	6928.55	4387.64	-3605.00	3039.34	1710578.86	14272988.67	39°18'17.0688"N	80°45'7.0923"W	4715.26	139.866	4.30	-1.85	-3.88	
11965.00	92.250	163.730	6927.27	4482.57	-3694.58	3070.78	1710610.28	14272899.13	39°18'16.1826"N	80°45'6.6954"W	4804.13	140.268	7.17	3.12	6.46	
12059.00	89.050	155.160	6926.20	4576.41	-3782.49	3103.75	1710643.24	14272811.25	39°18'15.3128"N	80°45'6.2791"W	4892.91	140.629	9.73	-3.40	-9.12	
12154.00	88.430	158.170	6928.29	4671.06	-3869.69	3141.37	1710680.84	14272724.08	39°18'14.4500"N	80°45'5.8036"W	4984.25	140.931	3.23	-0.65	3.17	
12249.00	93.140	161.940	6926.99	4765.98	-3958.94	3173.76	1710713.22	14272634.87	39°18'13.5670"N	80°45'5.3947"W	5074.05	141.282	6.35	4.96	3.97	
12343.00	89.110	158.560	6925.15	4859.91	-4047.37	3205.51	1710744.96	14272546.48	39°18'12.6922"N	80°45'4.9939"W	5162.99	141.621	5.59	-4.29	-3.60	
12533.00	89.690	160.440	6927.13	5049.80	-4225.31	3272.04	1710811.46	14272368.60	39°18'10.9316"N	80°45'4.1538"W	5344.11	142.246	1.04	0.31	0.99	
12627.00	92.680	161.810	6925.19	5143.76	-4314.23	3302.44	1710841.85	14272279.72	39°18'10.0519"N	80°45'3.7702"W	5433.11	142.567	3.50	3.18	1.46	
12721.00	88.150	160.150	6924.51	5237.73	-4403.07	3333.06	1710872.46	14272190.92	39°18'9.1730"N	80°45'3.3838"W	5522.35	142.875	5.13	-4.82	-1.77	
12815.00	91.260	163.060	6924.99	5331.71	-4492.24	3362.72	1710902.11	14272101.78	39°18'8.2909"N	80°45'3.0096"W	5611.43	143.183	4.53	3.31	3.10	
12910.00	90.920	163.560	6923.19	5426.63	-4583.22	3390.00	1710929.37	14272010.83	39°18'7.3909"N	80°45'2.6658"W	5700.70	143.511	0.64	-0.36	0.53	
13004.00	91.480	163.940	6921.22	5520.53	-4673.45	3416.30	1710955.66	14271920.65	39°18'6.4984"N	80°45'2.3345"W	5788.97	143.833	0.72	0.60	0.40	
13098.00	89.540	164.750	6920.38	5614.39	-4763.95	3441.66	1710981.01	14271830.18	39°18'5.6032"N	80°45'2.0150"W	5877.10	144.154	2.24	-2.06	0.86	
13287.00	90.150	165.400	6920.89	5802.99	-4946.57	3490.34	1711029.67	14271647.63	39°18'3.7969"N	80°45'1.4022"W	6054.01	144.793	0.47	0.32	0.34	
13382.00	90.770	161.700	6920.13	5897.90	-5037.67	3517.23	1711056.56	14271556.57	39°18'2.8959"N	80°45'1.0633"W	6144.02	145.078	3.95	0.65	-3.89	
13477.00	90.770	163.040	6918.85	5992.87	-5128.19	3546.00	1711085.31	14271466.08	39°18'2.0003"N	80°45'0.7005"W	6234.78	145.337	1.41	0.00	1.41	
13666.00	91.940	162.650	6914.38	6181.75	-5308.73	3601.73	1711141.02	14271285.61	39°18'0.2144"N	80°44'59.9979"W	6415.22	145.845	0.65	0.62	-0.21	
13761.00	90.770	163.280	6912.14	6276.69	-5399.54	3629.55	1711168.83	14271194.85	39°17'59.3162"N	80°44'59.6472"W	6506.05	146.091	1.40	-1.23	0.66	
13856.00	90.550	164.140	6911.04	6371.60	-5490.72	3656.20	1711195.47	14271103.70	39°17'58.4143"N	80°44'59.3115"W	6596.65	146.341	0.93	-0.23	0.91	
13950.00	90.490	163.640	6910.19	6465.50	-5581.02	3682.28	1711221.54	14271013.43	39°17'57.5210"N	80°44'58.9829"W	6686.33	146.584	0.54	-0.06	-0.53	
14045.00	92.890	162.210	6907.39	6560.42	-5671.78	3710.16	1711249.41	14270922.71	39°17'56.6232"N	80°44'58.6315"W	6777.49	146.810	2.94	2.53	-1.51	
14140.00	90.060	164.320	6904.94	6655.32	-5762.72	3737.50	1711276.74	14270831.81	39°17'55.7237"N	80°44'58.2869"W	6868.61	147.034	3.72	-2.98	2.22	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	McKean Unit 2H
Field	Doddridge		API	47-017-06915-0000
Facility	Gaspar Pad		Wellbore	McKean Unit 2H AWB
Slot	Slot G			

WELLPATH DATA (241 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
14234.00	89.850	164.840	6905.02	6749.17	-5853.33	3762.49	1711301.72	14270741.23	39°17'54.8274"N	80°44'57.9722"W	6958.29	147.267	0.60	-0.22	0.55	
14329.00	89.290	163.650	6905.73	6844.04	-5944.76	3788.29	1711327.50	14270649.84	39°17'53.9231"N	80°44'57.6473"W	7049.20	147.493	1.38	-0.59	-1.25	
14424.00	92.120	161.040	6904.56	6939.00	-6035.26	3817.09	1711356.30	14270559.37	39°17'53.0278"N	80°44'57.2841"W	7141.05	147.688	4.05	2.98	-2.75	
14518.00	90.090	162.100	6902.75	7032.98	-6124.42	3846.80	1711386.00	14270470.25	39°17'52.1458"N	80°44'56.9093"W	7232.31	147.867	2.44	-2.16	1.13	
14613.00	90.000	161.720	6902.67	7127.97	-6214.72	3876.30	1711415.48	14270379.98	39°17'51.2524"N	80°44'56.5373"W	7324.51	148.047	0.41	-0.09	-0.40	
14708.00	90.520	161.600	6902.24	7222.97	-6304.89	3906.19	1711445.36	14270289.85	39°17'50.3604"N	80°44'56.1603"W	7416.87	148.220	0.56	0.55	-0.13	
14802.00	89.420	159.650	6902.29	7316.96	-6393.57	3937.37	1711476.53	14270201.21	39°17'49.4831"N	80°44'55.7668"W	7508.70	148.374	2.38	-1.17	-2.07	
14897.00	90.290	160.630	6902.54	7411.93	-6482.91	3969.65	1711508.79	14270111.90	39°17'48.5992"N	80°44'55.3594"W	7601.73	148.520	1.37	0.91	1.03	
14992.00	91.020	160.830	6901.46	7506.92	-6572.58	4001.00	1711540.13	14270022.26	39°17'47.7120"N	80°44'54.9638"W	7694.60	148.669	0.81	0.78	0.21	
15087.00	90.310	160.120	6900.36	7601.90	-6662.11	4032.75	1711571.86	14269932.77	39°17'46.8263"N	80°44'54.5632"W	7787.61	148.812	1.06	-0.75	-0.75	
15182.00	90.800	161.730	6899.44	7696.89	-6751.89	4063.79	1711602.90	14269843.03	39°17'45.9381"N	80°44'54.1715"W	7880.51	148.957	1.77	0.52	1.69	
15276.00	89.350	161.090	6899.32	7790.89	-6840.98	4093.75	1711632.85	14269753.97	39°17'45.0567"N	80°44'53.7935"W	7972.32	149.103	1.69	-1.54	-0.68	
15466.00	90.580	160.170	6899.43	7980.87	-7020.22	4156.77	1711695.84	14269574.80	39°17'43.2834"N	80°44'52.9983"W	8158.57	149.370	0.81	0.65	-0.48	
15560.00	91.750	161.100	6897.52	8074.84	-7108.88	4187.93	1711726.99	14269486.18	39°17'42.4063"N	80°44'52.6051"W	8250.76	149.497	1.59	1.24	0.99	
15655.00	90.430	162.830	6895.71	8169.81	-7199.19	4217.34	1711756.38	14269395.90	39°17'41.5129"N	80°44'52.2343"W	8343.52	149.638	2.29	-1.39	1.82	
15750.00	89.110	156.980	6896.10	8264.73	-7288.37	4249.96	1711788.99	14269306.76	39°17'40.6306"N	80°44'51.8225"W	8436.97	149.753	6.31	-1.39	-6.16	
15845.00	90.250	160.460	6896.63	8359.62	-7376.88	4284.43	1711823.45	14269218.29	39°17'39.7549"N	80°44'51.3872"W	8530.81	149.852	3.85	1.20	3.66	
15939.00	90.860	158.740	6895.72	8453.56	-7464.97	4317.19	1711856.20	14269130.23	39°17'38.8832"N	80°44'50.9736"W	8623.46	149.958	1.94	0.65	-1.83	
16034.00	90.920	161.140	6894.24	8548.52	-7554.19	4349.77	1711888.77	14269041.05	39°17'38.0005"N	80°44'50.5624"W	8717.02	150.066	2.53	0.06	2.53	
16129.00	89.880	161.520	6893.58	8643.51	-7644.19	4380.18	1711919.17	14268951.08	39°17'37.1102"N	80°44'50.1788"W	8810.20	150.187	1.17	-1.09	0.40	
16223.00	89.480	161.010	6894.10	8737.51	-7733.21	4410.38	1711949.34	14268862.10	39°17'36.2295"N	80°44'49.7979"W	8902.47	150.303	0.69	-0.43	-0.54	
16318.00	89.570	159.720	6894.89	8832.49	-7822.68	4442.30	1711981.25	14268772.67	39°17'35.3443"N	80°44'49.3951"W	8996.02	150.409	1.36	0.09	-1.36	
16413.00	91.420	161.030	6894.07	8927.47	-7912.15	4474.20	1712013.14	14268683.23	39°17'34.4592"N	80°44'48.9925"W	9089.59	150.513	2.39	1.95	1.38	
16508.00	89.880	163.370	6892.99	9022.44	-8002.59	4503.24	1712042.17	14268592.83	39°17'33.5645"N	80°44'48.6264"W	9182.62	150.633	2.95	-1.62	2.46	
16602.00	89.420	158.140	6893.57	9116.40	-8091.30	4534.21	1712073.13	14268504.15	39°17'32.6868"N	80°44'48.2356"W	9275.14	150.735	5.59	-0.49	-5.56	
16697.00	90.580	161.200	6893.57	9211.35	-8180.37	4567.21	1712106.12	14268415.11	39°17'31.8056"N	80°44'47.8191"W	9368.99	150.825	3.44	1.22	3.22	
16792.00	89.660	160.700	6893.37	9306.35	-8270.17	4598.22	1712137.11	14268325.35	39°17'30.9172"N	80°44'47.4279"W	9462.52	150.926	1.10	-0.97	-0.53	
16886.00	90.340	159.830	6893.37	9400.33	-8358.65	4629.96	1712168.84	14268236.91	39°17'30.0418"N	80°44'47.0273"W	9555.28	151.017	1.17	0.72	-0.93	
16981.00	91.170	160.690	6892.12	9495.30	-8448.05	4662.04	1712200.91	14268147.54	39°17'29.1573"N	80°44'46.6225"W	9649.05	151.108	1.26	0.87	0.91	
17075.00	88.980	160.670	6891.99	9589.29	-8536.75	4693.14	1712231.99	14268058.87	39°17'28.2797"N	80°44'46.2301"W	9741.75	151.200	2.33	-2.33	-0.02	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 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
17170.00	89.200	159.020	6893.50	9684.24	-8625.92	4725.86	1712264.71	14267969.74	39°17'27.3975"N	80°44'45.8170"W	9835.67	151.283	1.75	0.23	-1.74	
17265.00	90.680	160.430	6893.60	9779.20	-8715.03	4758.78	1712297.61	14267880.67	39°17'26.5159"N	80°44'45.4016"W	9929.64	151.364	2.15	1.56	1.48	
17359.00	90.770	161.600	6892.41	9873.19	-8803.91	4789.36	1712328.18	14267791.82	39°17'25.6366"N	80°44'45.0158"W	10022.32	151.454	1.25	0.10	1.24	
17454.00	89.690	160.740	6892.03	9968.18	-8893.82	4820.02	1712358.83	14267701.95	39°17'24.7470"N	80°44'44.6291"W	10115.96	151.544	1.45	-1.14	-0.91	
17549.00	90.220	160.580	6892.10	10063.17	-8983.46	4851.48	1712390.28	14267612.34	39°17'23.8602"N	80°44'44.2321"W	10209.77	151.629	0.58	0.56	-0.17	
17643.00	89.750	160.780	6892.13	10157.17	-9072.17	4882.58	1712421.36	14267523.67	39°17'22.9826"N	80°44'43.8398"W	10302.61	151.711	0.54	-0.50	0.21	
17738.00	90.370	160.970	6892.03	10252.16	-9161.92	4913.71	1712452.48	14267433.95	39°17'22.0946"N	80°44'43.4471"W	10396.41	151.795	0.68	0.65	0.20	
17833.00	89.540	159.540	6892.10	10347.14	-9251.34	4945.80	1712484.56	14267344.58	39°17'21.2100"N	80°44'43.0422"W	10490.38	151.871	1.74	-0.87	-1.51	
17927.00	90.280	160.240	6892.25	10441.11	-9339.60	4978.12	1712516.86	14267256.34	39°17'20.3367"N	80°44'42.6343"W	10583.47	151.942	1.08	0.79	0.74	
18022.00	89.850	161.040	6892.14	10536.10	-9429.23	5009.61	1712548.34	14267166.75	39°17'19.4500"N	80°44'42.2370"W	10677.39	152.019	0.96	-0.45	0.84	
18116.00	89.480	160.360	6892.69	10630.10	-9517.95	5040.68	1712579.40	14267078.07	39°17'18.5723"N	80°44'41.8450"W	10770.32	152.094	0.82	-0.39	-0.72	
18211.00	89.140	160.740	6893.84	10725.08	-9607.52	5072.31	1712611.02	14266988.54	39°17'17.6861"N	80°44'41.4459"W	10864.29	152.168	0.54	-0.36	0.40	
18305.00	89.780	160.380	6894.72	10819.06	-9696.15	5103.59	1712642.29	14266899.93	39°17'16.8092"N	80°44'41.0512"W	10957.28	152.240	0.78	0.68	-0.38	
18400.00	89.080	160.700	6895.67	10914.05	-9785.72	5135.24	1712673.92	14266810.40	39°17'15.9230"N	80°44'40.6520"W	11051.29	152.311	0.81	-0.74	0.34	
18495.00	89.170	160.770	6897.12	11009.03	-9875.39	5166.58	1712705.25	14266720.77	39°17'15.0359"N	80°44'40.2566"W	11145.26	152.382	0.12	0.09	0.07	
18589.00	89.850	161.690	6897.92	11103.03	-9964.39	5196.83	1712735.48	14266631.81	39°17'14.1554"N	80°44'39.8751"W	11238.15	152.456	1.22	0.72	0.98	
18684.00	89.630	161.650	6898.35	11198.03	-10054.57	5226.70	1712765.35	14266541.66	39°17'13.2633"N	80°44'39.4984"W	11331.93	152.533	0.24	-0.23	-0.04	
18778.00	89.970	161.670	6898.68	11292.02	-10143.79	5256.28	1712794.91	14266452.47	39°17'12.3806"N	80°44'39.1255"W	11424.75	152.608	0.36	0.36	0.02	
18873.00	90.030	161.740	6898.68	11387.02	-10233.99	5286.10	1712824.72	14266362.31	39°17'11.4883"N	80°44'38.7494"W	11518.57	152.683	0.10	0.06	0.07	
18967.00	90.120	161.930	6898.56	11481.02	-10323.30	5315.41	1712854.02	14266273.03	39°17'10.6047"N	80°44'38.3799"W	11611.38	152.756	0.22	0.10	0.20	
19062.00	89.910	161.480	6898.53	11576.02	-10413.50	5345.23	1712883.83	14266182.87	39°17'9.7124"N	80°44'38.0039"W	11705.23	152.829	0.52	-0.22	-0.47	
19157.00	90.180	161.690	6898.46	11671.02	-10503.64	5375.24	1712913.82	14266092.77	39°17'8.8207"N	80°44'37.6255"W	11799.13	152.899	0.36	0.28	0.22	
19251.00	90.250	162.110	6898.11	11765.01	-10592.98	5404.44	1712943.02	14266003.46	39°17'7.9368"N	80°44'37.2573"W	11891.98	152.970	0.45	0.07	0.45	
19346.00	90.120	161.980	6897.80	11860.00	-10683.36	5433.73	1712972.29	14265913.12	39°17'7.0427"N	80°44'36.8881"W	11985.80	153.041	0.19	-0.14	-0.14	
19440.00	89.050	161.970	6898.48	11953.99	-10772.74	5462.81	1713001.36	14265823.77	39°17'6.1585"N	80°44'36.5215"W	12078.67	153.111	1.14	-1.14	-0.01	
19535.00	90.950	163.260	6898.48	12048.96	-10863.40	5491.19	1713029.74	14265733.16	39°17'5.2617"N	80°44'36.1638"W	12172.37	153.184	2.42	2.00	1.36	
19630.00	89.110	161.430	6898.43	12143.94	-10953.91	5520.00	1713058.53	14265642.67	39°17'4.3662"N	80°44'35.8007"W	12266.16	153.255	2.73	-1.94	-1.93	
19724.00	89.380	161.690	6899.67	12237.93	-11043.08	5549.73	1713088.25	14265553.54	39°17'3.4841"N	80°44'35.4258"W	12359.17	153.318	0.40	0.29	0.28	
19819.00	91.140	161.470	6899.24	12332.93	-11133.21	5579.75	1713118.26	14265463.45	39°17'2.5925"N	80°44'35.0473"W	12453.19	153.381	1.87	1.85	-0.23	
19913.00	90.800	161.510	6897.65	12426.91	-11222.33	5609.59	1713148.08	14265374.36	39°17'1.7108"N	80°44'34.6710"W	12546.24	153.441	0.36	-0.36	0.04	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 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
20008.00	90.740	161.890	6896.37	12521.90	-11312.52	5639.42	1713177.90	14265284.21	39°17'0.8185"N	80°44'34.2950"W	12640.26	153.503	0.40	-0.06	0.40	
20102.00	90.460	161.580	6895.39	12615.89	-11401.78	5668.87	1713207.34	14265194.99	39°16'59.9355"N	80°44'33.9236"W	12733.29	153.564	0.44	-0.30	-0.33	
20197.00	90.550	161.760	6894.55	12710.89	-11491.95	5698.75	1713237.21	14265104.85	39°16'59.0434"N	80°44'33.5469"W	12827.34	153.624	0.21	0.09	0.19	
20292.00	90.830	162.190	6893.41	12805.88	-11582.28	5728.14	1713266.59	14265014.55	39°16'58.1498"N	80°44'33.1764"W	12921.34	153.685	0.54	0.29	0.45	
20387.00	90.770	162.020	6892.08	12900.86	-11672.68	5757.33	1713295.77	14264924.19	39°16'57.2555"N	80°44'32.8084"W	13015.31	153.746	0.19	-0.06	-0.18	
20481.00	90.400	161.730	6891.12	12994.85	-11762.01	5786.57	1713325.00	14264834.90	39°16'56.3718"N	80°44'32.4398"W	13108.37	153.804	0.50	-0.39	-0.31	
20576.00	91.230	161.810	6889.77	13089.84	-11852.23	5816.29	1713354.70	14264744.71	39°16'55.4792"N	80°44'32.0652"W	13202.45	153.861	0.88	0.87	0.08	
20670.00	91.170	162.180	6887.80	13183.81	-11941.61	5845.34	1713383.74	14264655.37	39°16'54.5950"N	80°44'31.6990"W	13295.49	153.919	0.40	-0.06	0.39	
20765.00	91.940	161.840	6885.22	13278.77	-12031.93	5874.67	1713413.06	14264565.08	39°16'53.7015"N	80°44'31.3293"W	13389.51	153.976	0.89	0.81	-0.36	
20859.00	91.880	162.030	6882.09	13372.71	-12121.25	5903.80	1713442.18	14264475.80	39°16'52.8179"N	80°44'30.9621"W	13482.56	154.031	0.21	-0.06	0.20	
20954.00	91.540	161.510	6879.25	13467.67	-12211.44	5933.51	1713471.87	14264385.65	39°16'51.9256"N	80°44'30.5876"W	13576.66	154.085	0.65	-0.36	-0.55	
21049.00	91.820	162.090	6876.47	13562.62	-12301.65	5963.16	1713501.52	14264295.48	39°16'51.0332"N	80°44'30.2137"W	13670.77	154.138	0.68	0.29	0.61	
21143.00	91.720	161.890	6873.57	13656.57	-12391.00	5992.21	1713530.56	14264206.16	39°16'50.1493"N	80°44'29.8475"W	13763.85	154.192	0.24	-0.11	-0.21	
21238.00	91.690	162.220	6870.74	13751.52	-12481.34	6021.47	1713559.80	14264115.86	39°16'49.2556"N	80°44'29.4787"W	13857.92	154.246	0.35	-0.03	0.35	
21332.00	91.940	161.610	6867.76	13845.47	-12570.65	6050.64	1713588.96	14264026.58	39°16'48.3720"N	80°44'29.1111"W	13951.03	154.297	0.70	0.27	-0.65	
21426.00	92.150	161.900	6864.41	13939.41	-12659.86	6080.05	1713618.35	14263937.40	39°16'47.4894"N	80°44'28.7403"W	14044.19	154.347	0.38	0.22	0.31	
21521.00	92.000	161.580	6860.97	14034.34	-12750.02	6109.79	1713648.09	14263847.28	39°16'46.5975"N	80°44'28.3653"W	14138.34	154.396	0.37	-0.16	-0.34	
21615.00	90.950	161.570	6858.55	14128.31	-12839.17	6139.49	1713677.78	14263758.16	39°16'45.7155"N	80°44'27.9909"W	14231.57	154.444	1.12	-1.12	-0.01	
21805.00	91.170	162.710	6855.03	14318.25	-13019.98	6197.75	1713736.01	14263577.43	39°16'43.9268"N	80°44'27.2566"W	14419.85	154.545	0.61	0.12	0.60	
21900.00	91.290	161.600	6852.99	14413.22	-13110.39	6226.86	1713765.11	14263487.05	39°16'43.0324"N	80°44'26.8898"W	14514.00	154.594	1.17	0.13	-1.17	
21994.00	91.290	161.960	6850.88	14507.20	-13199.65	6256.24	1713794.48	14263397.83	39°16'42.1493"N	80°44'26.5194"W	14607.24	154.640	0.38	0.00	0.38	
22088.00	91.200	162.120	6848.83	14601.17	-13289.05	6285.22	1713823.45	14263308.46	39°16'41.2649"N	80°44'26.1541"W	14700.44	154.688	0.20	-0.10	0.17	
22183.00	91.140	162.140	6846.89	14696.14	-13379.45	6314.37	1713852.58	14263218.10	39°16'40.3706"N	80°44'25.7868"W	14794.62	154.735	0.07	-0.06	0.02	
22277.00	91.170	161.840	6845.00	14790.11	-13468.83	6343.42	1713881.63	14263128.76	39°16'39.4864"N	80°44'25.4206"W	14887.86	154.781	0.32	0.03	-0.32	
22467.00	91.390	153.180	6840.75	14979.46	-13644.16	6416.01	1713954.19	14262953.49	39°16'37.7514"N	80°44'24.5039"W	15077.42	154.815	4.56	0.12	-4.56	
22562.00	91.570	154.170	6838.29	15073.57	-13729.28	6458.13	1713996.29	14262868.41	39°16'36.9089"N	80°44'23.9714"W	15172.36	154.808	1.06	0.19	1.04	
22656.00	91.880	157.130	6835.46	15167.06	-13814.87	6496.86	1714035.01	14262782.85	39°16'36.0618"N	80°44'23.4820"W	15266.30	154.813	3.16	0.33	3.15	
22751.00	91.790	161.660	6832.42	15261.93	-13903.73	6530.27	1714068.40	14262694.03	39°16'35.1827"N	80°44'23.0605"W	15360.93	154.842	4.77	-0.09	4.77	
22845.00	91.690	161.890	6829.57	15355.88	-13992.97	6559.66	1714097.77	14262604.82	39°16'34.2998"N	80°44'22.6901"W	15454.20	154.884	0.27	-0.11	0.24	
22932.00	91.790	162.100	6826.92	15442.84	-14075.67	6586.54	1714124.64	14262522.16	39°16'33.4816"N	80°44'22.3513"W	15540.49	154.923	0.27	0.11	0.24	





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

WELLPATH DATA (241 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
22956.00‡	91.790	162.100	6826.17	15466.82	-14098.50	6593.91	1714132.01	14262499.34	39°16'33.2558"N	80°44'22.2584"W	15564.29	154.934	0.00	0.00	0.00	Projected MD at TD: 22956'

HOLE & CASING SECTIONS - Ref Wellbore: McKean Unit 2H AWB Ref Wellpath: McKean Unit 2H AWP Proj: 22956'									
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	-0.10	-0.04
17.5in Open Hole	130.00	384.00	254.00	130.00	384.00	-0.10	-0.04	-0.34	0.03
13.375in Casing Surface	30.00	364.00	334.00	30.00	364.00	0.00	0.00	-0.32	-0.01
12.25in Open Hole	384.00	2662.00	2278.00	384.00	2558.55	-0.34	0.03	454.78	408.56
9.625in Casing Intermediate	30.00	2642.00	2612.00	30.00	2539.38	0.00	0.00	451.57	403.86
8.75in Open Hole	2662.00	6428.00	3766.00	2558.55	6185.92	454.78	408.56	960.85	1254.60
8.5in Open Hole	6428.00	22956.00	16528.00	6185.92	6826.17	960.85	1254.60	-14098.50	6593.91
5.5in Casing Production	30.00	22936.00	22906.00	30.00	6826.80	0.00	0.00	-14079.48	6587.76





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
McKean Unit 2H POE Rev-2	6904.00	614.49	1600.05	1709140.14	14277206.49	39°18'58.8115"N	80°45'25.2575"W	point
McKean Unit 2H BHL Rev-2	6947.00	-14094.55	6566.02	1714104.13	14262503.28	39°16'33.2956"N	80°44'22.6129"W	point
McKean Unit 2H LP Rev-2	6947.00	382.91	1678.24	1709218.29	14276975.00	39°18'56.5205"N	80°45'24.2706"W	point
McKean Unit 2H 50' L/R Hard Line	7250.00	-6740.03	4083.04	1711622.14	14269854.88	39°17'46.0548"N	80°44'53.9262"W	rectangle
2D Rectangle 15524.7 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: McKean Unit 2H AWB    Ref Wellpath: McKean Unit 2H AWP Proj: 22956'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	381.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-381')	McKean Unit 2H AWB	4/15/2022
381.00	2587.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (381')(413'-2587')	McKean Unit 2H AWB	4/15/2022
2587.00	6356.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (2587')(2753'-6356')	McKean Unit 2H AWB	4/15/2022
6356.00	22956.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6356')(6404'-22932')	McKean Unit 2H AWB	4/15/2022





# Actual Wellpath Report

McKean Unit 2H AWP Proj: 22956'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	McKean Unit 2H
Field	Doddridge	API	47-017-06915-0000
Facility	Gaspar Pad	Wellbore	McKean Unit 2H AWB
Slot	Slot G		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-017-06915-0000 BH Job #: 111277241 Rig: H&amp;P 531 Duration: 4/16/2022-4/24/2022 Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-381') APS EM &lt;12-1/4"&gt; (381')(413'-2587') APS EM &lt;8-3/4"&gt; (2587')(2753'-6356') BH AT Curve &lt;8-1/2"&gt; (6356')(6404'-22932') Sycamore: 6750' MD Middlesex: 6987' MD Burkett: 7175' MD Tully: 7224' MD Marcellus POE: 7338' MD Projected MD at TD: 22956'</p>