



ANTERO RESOURCES CORPORATION

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

Slot: Slot B
Well: Mule Unit 2H
Wellbore: Mule Unit 2H PWB



Plot reference wellpath is Mule Unit 2H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US foot
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath invasion 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 Slot
Mean Sea Level to Ground level (At Slot: Slot B) : -1180 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edw@arco on 2022-07-21; Database: WA_MPL_EASTERNUS Detn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Gaspar Pad	1707488.590	14276538.450	39°18'52.2500"N	80°45'46.5558"W
Slot	Local N (ft)	Local E (ft)	Grid North (US ft)	Latitude
Slot B	8.93	12.06	1707480.850	14276547.380
			39°18'52.3380"N	80°45'46.4020"W
Comment	Mule Unit 2H			
H&P 531 (RKB) to Ground level (At Slot: Slot B)	30ft			
Mean Sea Level to Ground level (At Slot: Slot B)	-1180ft			
H&P 531 (RKB) to Mean Sea Level	1210ft			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot B	Mule Unit 2H	Mule Unit 2H AWB	Mule Unit 2H AWP Proj: 16371'
Slot B	Mule Unit 2H	Mule Unit 2H PWB	Mule Unit 2H PWP Rev-B.0

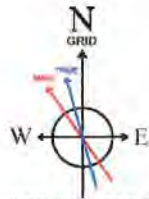
Gyrodata MS Gyro <13-1/2"> (100'-380') : 0.37° Inc, 100.00ft MD, 100.00ft TVD, 0.20ft VS

APS EM <9-7/8"> (380')(412'-2650') : 0.79° Inc, 412.00ft MD, 411.98ft TVD, 2.87ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2650.00	18.770	207.580	2525.27	-427.50	-518.34	0.89	247.25
Proj to Bottom	2718.00	18.770	207.580	2569.66	-446.90	-528.47	0.00	262.58
Drill Out	2768.00	18.770	207.580	2665.40	-499.80	-540.39	0.00	280.62
End of 3D Arc	3256.78	23.499	237.017	3094.39	-585.41	-651.66	2.50	356.36
Curve KOP	6587.49	23.499	237.017	6148.87	-1308.40	-1765.71	0.00	701.27
Build/Turn	7198.87	45.000	180.000	6663.05	-1800.98	-1871.60	6.00	947.04
POE	7682.76	70.045	182.068	6858.00	-1888.76	-1817.78	6.00	1246.93
Landing Pt.	7812.10	90.000	182.068	6901.00	-2131.32	-1742.52	8.00	1491.36
BHL	16388.19	90.000	182.068	6901.00	-10290.71	897.95	0.00	10067.38

APS EM <6-3/4"> (2650')(2716'-6460') : 18.21° Inc, 2716.00ft MD, 2587.87ft TVD, 262.59ft VS

API: 47-017-06917-0000
BH Job #: 111277260
Rig: H&P 531
Duration: 6/16/2022-6/21/2022



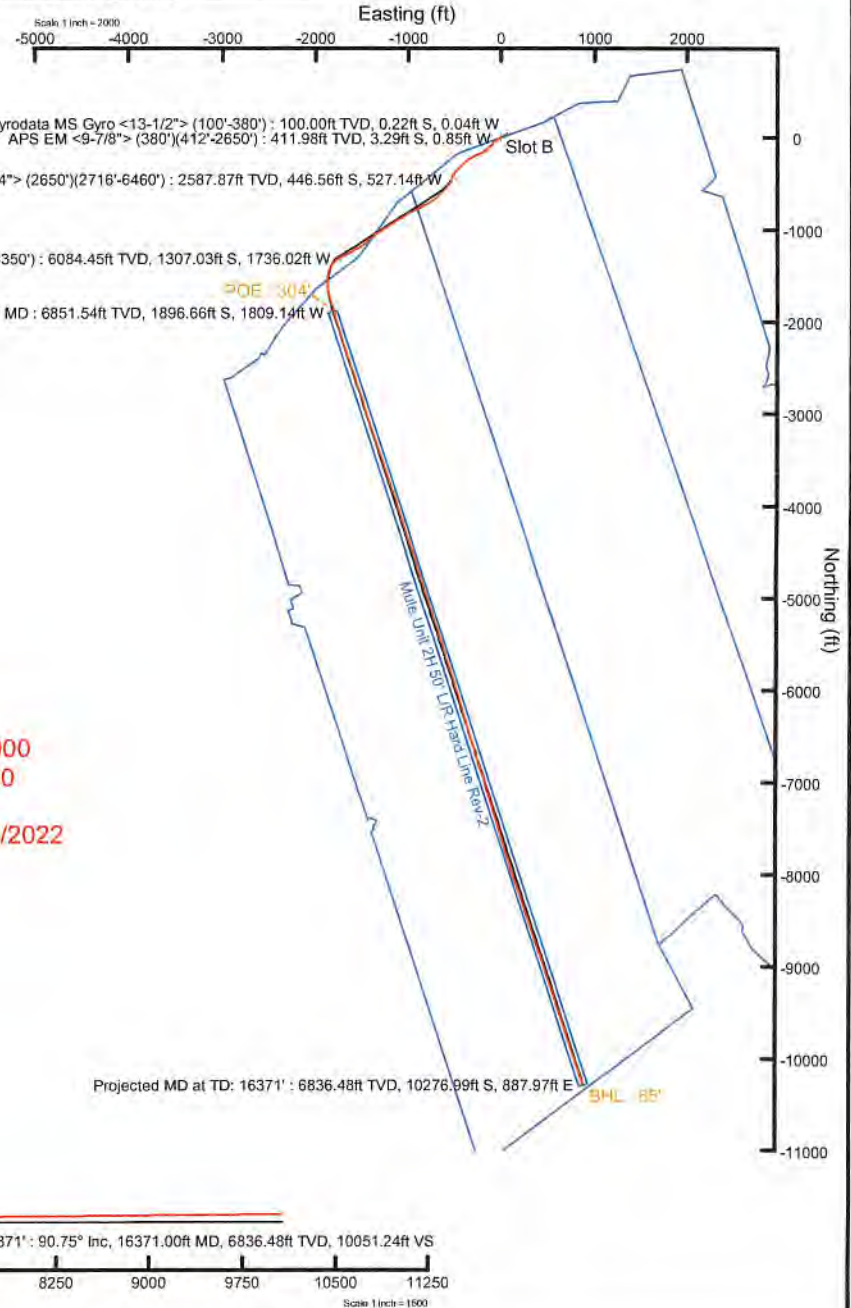
User specified (HDGM) Dip: 66.17° Field: 51797 nT
Magnetic North is 7.53 degrees West of True North (at 6/16/2022)
Grid North is 0.15 degrees East of True North
To correct azimuth from True to Grid subtract 0.15 degrees
To correct azimuth from Magnetic to Grid subtract 7.68 degrees

BH Lucida <6-3/4"> (6460')(6524'-16350') : 20.70° Inc, 6524.00ft MD, 6084.45ft TVD, 709.11ft VS

Marcellus POE: 7560' MD : 69.09° Inc, 7560.00ft MD, 6851.54ft TVD, 1247.60ft VS

Projected MD at TD: 16371' : 90.75° Inc, 16371.00ft MD, 6836.48ft TVD, 10051.24ft VS

Vertical Section (ft)
Azimuth 162.07° with reference 0.00 N, 0.00 E



Scale 1 inch = 1500

True Vertical Depth (ft)

Northing (ft)

Scale 1 inch = 1600



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

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	7/21/2022 at 10:09:28 PM
Convergence at slot	0.15° East	Database	WA_MPL_EASTERNU_S_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	8.93	12.06	1707480.65	14276547.38	39°18'52.3380"N	80°45'46.4020"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 B)	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	162.07°



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (183 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	190.500	0.00	0.00	0.00	0.00	1707480.65	14276547.38	39°18'52.3380"N	80°45'46.4020"W	0.00	0.000	0.00	0.00	0.00		
30.00	0.000	190.500	30.00	0.00	0.00	0.00	1707480.65	14276547.38	39°18'52.3380"N	80°45'46.4020"W	0.00	0.000	0.00	0.00	0.00		
100.00	0.370	190.500	100.00	0.20	-0.22	-0.04	1707480.61	14276547.16	39°18'52.3358"N	80°45'46.4026"W	0.23	190.500	0.53	0.53	0.00	Gyrodata MS Gyro <13-1/2"> (100'-380')	
200.00	0.540	189.710	200.00	0.90	-1.00	-0.18	1707480.47	14276546.38	39°18'52.3281"N	80°45'46.4044"W	1.02	190.135	0.17	0.17	-0.79		
300.00	0.670	186.550	299.99	1.85	-2.05	-0.33	1707480.32	14276545.33	39°18'52.3178"N	80°45'46.4063"W	2.08	189.029	0.13	0.13	-3.16		
380.00	0.720	217.850	379.99	2.56	-2.91	-0.69	1707479.96	14276544.47	39°18'52.3093"N	80°45'46.4109"W	2.99	193.287	0.47	0.06	39.12		
412.00	0.790	190.480	411.98	2.87	-3.29	-0.85	1707479.80	14276544.09	39°18'52.3056"N	80°45'46.4130"W	3.40	194.515	1.14	0.22	-85.53	APS EM <9-7/8"> (380')(412'-2650')	
506.00	2.600	231.720	505.94	4.18	-5.25	-2.64	1707478.01	14276542.14	39°18'52.2863"N	80°45'46.4358"W	5.87	206.741	2.20	1.93	43.87		
593.00	6.610	238.130	592.64	6.07	-9.11	-8.45	1707472.21	14276538.27	39°18'52.2482"N	80°45'46.5098"W	12.43	222.827	4.64	4.61	7.37		
683.00	6.680	240.590	682.04	8.36	-14.42	-17.41	1707463.25	14276532.97	39°18'52.1960"N	80°45'46.6240"W	22.60	230.362	0.33	0.08	2.73		
773.00	8.790	236.610	771.21	11.23	-20.77	-27.71	1707452.95	14276526.61	39°18'52.1334"N	80°45'46.7553"W	34.63	233.140	2.42	2.34	-4.42		
863.00	10.150	237.230	859.99	15.10	-28.85	-40.12	1707440.55	14276518.54	39°18'52.0539"N	80°45'46.9134"W	49.42	234.278	1.52	1.51	0.69		
953.00	11.460	230.880	948.39	20.36	-38.79	-53.72	1707426.95	14276508.61	39°18'51.9561"N	80°45'47.0869"W	66.26	234.173	1.96	1.46	-7.06		
1049.00	13.170	228.420	1042.18	28.20	-52.06	-69.31	1707411.37	14276495.34	39°18'51.8253"N	80°45'47.2855"W	86.68	233.086	1.86	1.78	-2.56		
1144.00	14.200	223.410	1134.48	38.13	-67.71	-85.41	1707395.27	14276479.70	39°18'51.6710"N	80°45'47.4910"W	108.99	231.594	1.65	1.08	-5.27		
1239.00	16.600	224.300	1226.07	50.04	-85.89	-102.90	1707377.79	14276461.52	39°18'51.4918"N	80°45'47.7141"W	134.03	230.148	2.54	2.53	0.94		
1334.00	18.140	223.930	1316.73	63.34	-106.25	-122.64	1707358.06	14276441.17	39°18'51.2910"N	80°45'47.9659"W	162.26	229.094	1.63	1.62	-0.39		
1429.00	19.560	228.150	1406.64	76.76	-127.52	-144.74	1707335.96	14276419.91	39°18'51.0814"N	80°45'48.2479"W	192.90	228.621	2.07	1.49	4.44		
1523.00	23.270	236.250	1494.15	88.21	-148.34	-171.92	1707308.80	14276399.10	39°18'50.8763"N	80°45'48.5943"W	227.07	229.210	5.04	3.95	8.62		
1618.00	26.600	243.260	1580.30	96.59	-168.35	-206.53	1707274.20	14276379.10	39°18'50.6795"N	80°45'49.0354"W	266.45	230.816	4.68	3.51	7.38		
1712.00	25.510	244.920	1664.75	102.33	-186.40	-243.66	1707237.08	14276361.06	39°18'50.5020"N	80°45'49.5083"W	306.78	232.585	1.39	-1.16	1.77		
1805.00	26.190	242.820	1748.45	108.12	-204.26	-280.06	1707200.70	14276343.20	39°18'50.3264"N	80°45'49.9720"W	346.63	233.895	1.23	0.73	-2.26		
1900.00	23.630	238.590	1834.61	115.93	-223.76	-314.97	1707165.81	14276323.70	39°18'50.1346"N	80°45'50.4168"W	386.36	234.608	3.28	-2.69	-4.45		
1994.00	23.810	234.530	1920.67	126.04	-244.59	-346.50	1707134.29	14276302.88	39°18'49.9295"N	80°45'50.8187"W	424.13	234.782	1.75	0.19	-4.32		
2089.00	22.510	228.320	2008.03	139.15	-267.82	-375.70	1707105.10	14276279.67	39°18'49.7007"N	80°45'51.1910"W	461.39	234.517	2.91	-1.37	-6.54		
2184.00	22.460	229.510	2095.81	153.44	-291.69	-403.09	1707077.72	14276255.80	39°18'49.4654"N	80°45'51.5402"W	497.56	234.109	0.48	-0.05	1.25		
2278.00	24.860	229.270	2181.90	167.98	-316.25	-431.72	1707049.10	14276231.26	39°18'49.2235"N	80°45'51.9053"W	535.16	233.776	2.56	2.55	-0.26		
2373.00	25.370	224.380	2267.93	185.18	-343.83	-461.09	1707019.74	14276203.69	39°18'48.9517"N	80°45'52.2799"W	575.17	233.289	2.25	0.54	-5.15		
2467.00	23.370	215.470	2353.58	205.66	-373.42	-486.00	1706994.84	14276174.11	39°18'48.6598"N	80°45'52.5978"W	612.90	232.463	4.45	-2.13	-9.48		
2562.00	19.250	209.470	2442.07	227.51	-402.41	-504.65	1706976.20	14276145.13	39°18'48.3737"N	80°45'52.8360"W	645.45	231.431	4.90	-4.34	-6.32		



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (183 stations) † = interpolated, ‡ = extrapolated station															Comments	
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]
5419.00	21.290	227.750	5065.10	599.36	-1076.57	-1380.26	1706100.93	14275471.24	39°18'41.7330"N	80°46'3.9983"W	1750.47	232.047	3.53	-1.99	-7.72	
5513.00	21.560	227.910	5152.61	613.46	-1099.62	-1405.71	1706075.50	14275448.19	39°18'41.5058"N	80°46'4.3228"W	1784.71	231.966	0.29	0.29	0.17	
5608.00	24.520	230.800	5240.02	627.76	-1123.79	-1433.95	1706047.27	14275424.04	39°18'41.2677"N	80°46'4.6828"W	1821.84	231.914	3.33	3.12	3.04	
5703.00	23.920	232.510	5326.66	641.36	-1147.97	-1464.51	1706016.72	14275399.87	39°18'41.0294"N	80°46'5.0724"W	1860.81	231.909	0.97	-0.63	1.80	
5797.00	24.970	234.750	5412.23	653.65	-1171.02	-1495.83	1705985.41	14275376.83	39°18'40.8024"N	80°46'5.4717"W	1899.68	231.944	1.49	1.12	2.38	
5892.00	24.120	239.490	5498.66	663.85	-1192.45	-1528.94	1705952.32	14275355.40	39°18'40.5914"N	80°46'5.8935"W	1938.96	232.049	2.26	-0.89	4.99	
5986.00	23.590	242.650	5584.63	671.11	-1210.84	-1562.19	1705919.08	14275337.02	39°18'40.4105"N	80°46'6.3172"W	1976.51	232.221	1.47	-0.56	3.36	
6081.00	21.920	235.880	5672.25	679.17	-1229.53	-1593.76	1705887.52	14275318.34	39°18'40.2266"N	80°46'6.7195"W	2012.91	232.351	3.27	-1.76	-7.13	
6176.00	21.080	238.070	5760.64	688.24	-1248.51	-1622.94	1705858.35	14275299.37	39°18'40.0397"N	80°46'7.0913"W	2047.61	232.429	1.22	-0.88	2.31	
6270.00	20.910	240.150	5848.40	695.80	-1265.80	-1651.84	1705829.47	14275282.08	39°18'39.8696"N	80°46'7.4595"W	2081.06	232.537	0.81	-0.18	2.21	
6365.00	21.770	244.570	5936.89	701.60	-1281.80	-1682.46	1705798.86	14275266.09	39°18'39.7122"N	80°46'7.8495"W	2115.11	232.698	1.92	0.91	4.65	
6460.00	22.400	245.820	6024.92	705.87	-1296.78	-1714.88	1705766.45	14275251.11	39°18'39.5649"N	80°46'8.2625"W	2149.99	232.904	0.83	0.66	1.32	
6524.00	20.700	242.310	6084.45	709.11	-1307.03	-1736.02	1705745.32	14275240.86	39°18'39.4642"N	80°46'8.5318"W	2173.04	233.024	3.33	-2.66	-5.48	BH Lucida <6-3/4"> (6460)(6524-16350)
6618.00	22.340	238.360	6171.90	716.17	-1324.13	-1765.94	1705715.41	14275223.78	39°18'39.2960"N	80°46'8.9131"W	2207.23	233.137	2.33	1.74	-4.20	
6712.00	26.590	225.430	6257.50	729.85	-1348.29	-1796.18	1705685.19	14275199.62	39°18'39.0579"N	80°46'9.2985"W	2245.92	233.106	7.25	4.52	-13.76	
6807.00	29.980	213.860	6341.21	754.09	-1382.96	-1824.58	1705656.80	14275164.97	39°18'38.7160"N	80°46'9.6610"W	2289.47	232.839	6.77	3.57	-12.18	
6901.00	33.240	202.970	6421.32	788.13	-1426.23	-1847.74	1705633.64	14275121.72	39°18'38.2889"N	80°46'9.9571"W	2334.16	232.336	6.98	3.47	-11.59	
6929.00†	33.863	200.212	6444.65	800.06	-1440.62	-1853.43	1705627.95	14275107.34	39°18'38.1468"N	80°46'10.0299"W	2347.46	232.143	5.88	2.23	-9.85	Sycamore: 6929' MD
6996.00	35.590	193.990	6499.73	831.30	-1477.07	-1864.60	1705616.79	14275070.90	39°18'37.7869"N	80°46'10.1732"W	2378.75	231.615	5.88	2.58	-9.29	
7090.00	38.670	186.250	6574.71	881.35	-1532.84	-1874.42	1705606.98	14275015.14	39°18'37.2358"N	80°46'10.2999"W	2421.37	230.725	5.95	3.28	-8.23	
7184.00†	44.377	178.315	6645.10	939.79	-1594.99	-1876.65	1705604.74	14274953.02	39°18'36.6217"N	80°46'10.3303"W	2462.89	229.638	8.25	6.07	-8.44	Middlesex: 7184' MD
7185.00	44.440	178.240	6645.82	940.46	-1595.69	-1876.63	1705604.76	14274952.33	39°18'36.6147"N	80°46'10.3301"W	2463.32	229.626	8.25	6.34	-7.53	
7280.00	48.950	171.510	6711.00	1007.82	-1664.44	-1870.31	1705611.08	14274883.60	39°18'35.9351"N	80°46'10.2519"W	2503.68	228.333	7.00	4.75	-7.08	
7374.00	56.080	165.290	6768.20	1081.86	-1737.35	-1855.15	1705626.24	14274810.72	39°18'35.2140"N	80°46'10.0614"W	2541.65	226.878	9.22	7.59	-6.62	
7388.00†	57.274	165.016	6775.89	1093.54	-1748.66	-1852.15	1705629.23	14274799.41	39°18'35.1022"N	80°46'10.0236"W	2547.21	226.646	8.68	8.53	-1.96	Burkett: 7388' MD
7443.00†	61.968	164.006	6803.70	1140.93	-1794.37	-1839.47	1705641.91	14274753.72	39°18'34.6501"N	80°46'9.8638"W	2569.71	225.711	8.68	8.54	-1.84	Tully: 7443' MD
7469.00	64.190	163.560	6815.47	1164.10	-1816.63	-1833.00	1705648.38	14274731.47	39°18'34.4299"N	80°46'9.7822"W	2580.70	225.257	8.68	8.55	-1.72	
7560.00†	69.089	163.250	6851.54	1247.60	-1896.66	-1809.14	1705672.23	14274651.47	39°18'33.6383"N	80°46'9.4813"W	2621.13	223.647	5.39	5.38	-0.34	Marcellus POE: 7560' MD
7563.00	69.250	163.240	6852.61	1250.40	-1899.35	-1808.33	1705673.03	14274648.78	39°18'33.6117"N	80°46'9.4711"W	2622.52	223.594	5.39	5.38	-0.33	
7658.00	76.220	163.310	6880.79	1341.04	-1986.18	-1782.24	1705699.11	14274561.99	39°18'32.7529"N	80°46'9.1420"W	2668.58	221.902	7.34	7.34	0.07	



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Mule Unit 2H AWP Proj: 16371'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (183 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
7752.00	86.380	163.200	6894.99	1433.82	-2075.04	-1755.51	1705725.84	14274473.16	39°18'31.8740"N	80°46'8.8047"W	2718.01	220.232	10.81	10.81	-0.12	
7847.00	90.750	161.830	6897.37	1528.76	-2165.60	-1726.98	1705754.36	14274382.64	39°18'30.9782"N	80°46'8.4447"W	2769.89	218.571	4.82	4.60	-1.44	
7941.00	90.720	161.930	6896.16	1622.75	-2254.93	-1697.75	1705783.58	14274293.35	39°18'30.0945"N	80°46'8.0757"W	2822.59	216.976	0.11	-0.03	0.11	
8035.00	90.600	161.850	6895.08	1716.75	-2344.26	-1668.53	1705812.78	14274204.05	39°18'29.2108"N	80°46'7.7069"W	2877.42	215.441	0.15	-0.13	-0.09	
8135.00	90.690	162.000	6893.95	1816.74	-2439.32	-1637.51	1705843.79	14274109.02	39°18'28.2705"N	80°46'7.3153"W	2937.98	213.873	0.17	0.09	0.15	
8225.00	90.540	161.660	6892.99	1906.73	-2524.83	-1609.44	1705871.85	14274023.55	39°18'27.4247"N	80°46'6.9611"W	2994.17	212.515	0.41	-0.17	-0.38	
8319.00	90.540	161.590	6892.10	2000.73	-2614.03	-1579.81	1705901.47	14273934.38	39°18'26.5423"N	80°46'6.5871"W	3054.34	211.147	0.07	0.00	-0.07	
8414.00	90.940	162.250	6890.87	2095.72	-2704.34	-1550.33	1705930.93	14273844.12	39°18'25.6490"N	80°46'6.2150"W	3117.20	209.825	0.81	0.42	0.69	
8508.00	90.820	162.440	6889.43	2189.71	-2793.90	-1521.83	1705959.43	14273754.59	39°18'24.7631"N	80°46'5.8552"W	3181.48	208.577	0.24	-0.13	0.20	
8603.00	90.910	161.370	6888.00	2284.69	-2884.19	-1492.32	1705988.92	14273664.34	39°18'23.8699"N	80°46'5.4829"W	3247.39	207.358	1.13	0.09	-1.13	
8697.00	90.970	162.790	6886.45	2378.68	-2973.61	-1463.40	1706017.83	14273574.95	39°18'22.9854"N	80°46'5.1179"W	3314.20	206.203	1.51	0.06	1.51	
8792.00	91.830	161.620	6884.13	2473.65	-3064.04	-1434.38	1706046.84	14273484.56	39°18'22.0909"N	80°46'4.7516"W	3383.16	205.086	1.53	0.91	-1.23	
8887.00	90.480	164.120	6882.22	2568.61	-3154.80	-1406.41	1706074.80	14273393.84	39°18'21.1932"N	80°46'4.3987"W	3454.09	204.027	2.99	-1.42	2.63	
8981.00	89.400	160.630	6882.32	2662.59	-3244.37	-1377.95	1706103.25	14273304.30	39°18'20.3071"N	80°46'4.0397"W	3524.87	203.012	3.89	-1.15	-3.71	
9075.00	91.960	159.800	6881.20	2756.53	-3332.81	-1346.14	1706135.05	14273215.90	39°18'19.4322"N	80°46'3.6378"W	3594.40	201.994	2.86	2.72	-0.88	
9170.00	90.110	161.580	6879.49	2851.48	-3422.44	-1314.73	1706166.44	14273126.30	39°18'18.5455"N	80°46'3.2412"W	3666.28	201.014	2.70	-1.95	1.87	
9264.00	90.690	162.090	6878.83	2945.47	-3511.75	-1285.43	1706195.73	14273037.02	39°18'17.6621"N	80°46'2.8714"W	3739.62	200.104	0.82	0.62	0.54	
9359.00	90.540	161.700	6877.81	3040.47	-3602.04	-1255.91	1706225.24	14272946.77	39°18'16.7689"N	80°46'2.4988"W	3814.71	199.222	0.44	-0.16	-0.41	
9453.00	89.920	162.940	6877.43	3134.46	-3691.60	-1227.36	1706253.78	14272857.25	39°18'15.8830"N	80°46'2.1386"W	3890.29	198.391	1.47	-0.66	1.32	
9547.00	88.140	158.990	6879.02	3228.41	-3780.43	-1196.72	1706284.41	14272768.45	39°18'15.0043"N	80°46'1.7517"W	3965.32	197.565	4.61	-1.89	-4.20	
9641.00	90.630	161.400	6880.03	3322.34	-3868.85	-1164.87	1706316.24	14272680.07	39°18'14.1296"N	80°46'1.3495"W	4040.41	196.757	3.69	2.65	2.56	
9736.00	90.510	162.340	6879.09	3417.33	-3959.13	-1135.31	1706345.79	14272589.83	39°18'13.2365"N	80°46'0.9764"W	4118.69	196.001	1.00	-0.13	0.99	
9831.00	90.420	161.990	6878.32	3512.33	-4049.56	-1106.22	1706374.87	14272499.43	39°18'12.3420"N	80°46'0.6093"W	4197.93	195.279	0.38	-0.09	-0.37	
9925.00	90.260	162.550	6877.76	3606.33	-4139.09	-1077.59	1706403.48	14272409.93	39°18'11.4564"N	80°46'0.2481"W	4277.06	194.593	0.62	-0.17	0.60	
10020.00	90.290	161.780	6877.30	3701.32	-4229.52	-1048.50	1706432.57	14272319.54	39°18'10.5618"N	80°45'59.8809"W	4357.55	193.923	0.81	0.03	-0.81	
10115.00	90.390	161.420	6876.74	3796.32	-4319.66	-1018.51	1706462.54	14272229.43	39°18'9.6701"N	80°45'59.5024"W	4438.12	193.267	0.39	0.11	-0.38	
10210.00	88.880	159.310	6877.34	3891.27	-4409.13	-986.59	1706494.45	14272140.00	39°18'8.7851"N	80°45'59.0993"W	4518.16	192.613	2.73	-1.59	-2.22	
10305.00	91.090	162.180	6877.37	3986.23	-4498.80	-955.27	1706525.76	14272050.36	39°18'7.8980"N	80°45'58.7038"W	4599.10	191.988	3.81	2.33	3.02	
10399.00	90.480	161.070	6876.08	4080.21	-4588.00	-925.64	1706555.38	14271961.20	39°18'7.0156"N	80°45'58.3298"W	4680.44	191.406	1.35	-0.65	-1.18	
10494.00	89.550	162.040	6876.06	4175.21	-4678.12	-895.58	1706585.42	14271871.12	39°18'6.1242"N	80°45'57.9505"W	4763.07	190.838	1.41	-0.98	1.02	



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (183 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
10589.00	90.080	162.850	6876.36	4270.20	-4768.69	-866.93	1706614.06	14271780.58	39°18'5.2282"N	80°45'57.5889"W	4846.85	190.304	1.02	0.56	0.85	
10684.00	90.260	162.380	6876.08	4365.20	-4859.35	-838.55	1706642.44	14271689.96	39°18'4.3315"N	80°45'57.2309"W	4931.17	189.791	0.53	0.19	-0.49	
10778.00	90.450	161.960	6875.50	4459.20	-4948.83	-809.76	1706671.21	14271600.51	39°18'3.4463"N	80°45'56.8677"W	5014.65	189.293	0.49	0.20	-0.45	
10873.00	89.920	161.720	6875.19	4554.19	-5039.10	-780.16	1706700.80	14271510.28	39°18'2.5534"N	80°45'56.4940"W	5099.14	188.801	0.61	-0.56	-0.25	
10967.00	90.540	162.170	6874.81	4648.19	-5128.47	-751.02	1706729.93	14271420.94	39°18'1.6693"N	80°45'56.1264"W	5183.17	188.331	0.81	0.66	0.48	
11061.00	90.320	161.170	6874.11	4742.19	-5217.70	-721.46	1706759.47	14271331.75	39°18'0.7867"N	80°45'55.7533"W	5267.34	187.872	1.09	-0.23	-1.06	
11156.00	89.980	163.100	6873.86	4837.18	-5308.11	-692.32	1706788.61	14271241.37	39°17'59.8923"N	80°45'55.3856"W	5353.07	187.431	2.06	-0.36	2.03	
11250.00	90.660	163.320	6873.34	4931.16	-5398.10	-665.17	1706815.75	14271151.42	39°17'59.0022"N	80°45'55.0432"W	5438.93	187.025	0.76	0.72	0.23	
11345.00	90.690	162.990	6872.22	5026.14	-5489.02	-637.64	1706843.26	14271060.54	39°17'58.1029"N	80°45'54.6960"W	5525.93	186.626	0.35	0.03	-0.35	
11440.00	89.680	162.840	6871.91	5121.12	-5579.83	-609.73	1706871.16	14270969.77	39°17'57.2048"N	80°45'54.3440"W	5613.04	186.236	1.07	-1.06	-0.16	
11535.00	89.310	162.060	6872.75	5216.12	-5670.40	-581.09	1706899.80	14270879.23	39°17'56.3087"N	80°45'53.9826"W	5700.10	185.851	0.91	-0.39	-0.82	
11629.00	91.120	162.640	6872.39	5310.11	-5759.97	-552.59	1706928.28	14270789.70	39°17'55.4227"N	80°45'53.6231"W	5786.42	185.480	2.02	1.93	0.62	
11724.00	90.390	162.200	6871.14	5405.10	-5850.52	-523.89	1706956.96	14270699.18	39°17'54.5269"N	80°45'53.2611"W	5873.93	185.117	0.90	-0.77	-0.46	
11818.00	90.540	162.800	6870.38	5499.09	-5940.17	-495.63	1706985.22	14270609.57	39°17'53.6402"N	80°45'52.9045"W	5960.81	184.770	0.66	0.16	0.64	
11913.00	91.060	163.920	6869.05	5594.06	-6031.18	-468.43	1707012.41	14270518.59	39°17'52.7400"N	80°45'52.5616"W	6049.35	184.441	1.30	0.55	1.18	
12007.00	90.140	162.600	6868.07	5688.03	-6121.19	-441.36	1707039.47	14270428.62	39°17'51.8496"N	80°45'52.2202"W	6137.08	184.124	1.71	-0.98	-1.40	
12102.00	90.940	163.320	6867.17	5783.01	-6212.01	-413.52	1707067.29	14270337.83	39°17'50.9513"N	80°45'51.8691"W	6225.76	183.808	1.13	0.84	0.76	
12197.00	90.570	164.040	6865.92	5877.97	-6303.18	-386.83	1707093.98	14270246.70	39°17'50.0495"N	80°45'51.5326"W	6315.04	183.512	0.85	-0.39	0.76	
12291.00	89.090	161.420	6866.20	5971.95	-6392.93	-358.92	1707121.87	14270156.99	39°17'49.1617"N	80°45'51.1807"W	6403.00	183.213	3.20	-1.57	-2.79	
12386.00	91.830	164.490	6865.44	6066.92	-6483.73	-331.08	1707149.70	14270066.22	39°17'48.2635"N	80°45'50.8295"W	6492.18	182.923	4.33	2.88	3.23	
12480.00	89.370	162.790	6864.45	6160.86	-6573.91	-304.61	1707176.16	14269976.08	39°17'47.3716"N	80°45'50.4958"W	6580.97	182.653	3.18	-2.62	-1.81	
12575.00	90.200	163.970	6864.81	6255.84	-6664.94	-277.44	1707203.32	14269885.08	39°17'46.4712"N	80°45'50.1532"W	6670.71	182.384	1.52	0.87	1.24	
12670.00	89.090	163.650	6865.40	6350.79	-6756.17	-250.95	1707229.80	14269793.89	39°17'45.5688"N	80°45'49.8193"W	6760.83	182.127	1.22	-1.17	-0.34	
12764.00	89.680	160.890	6866.41	6444.77	-6845.69	-222.33	1707258.41	14269704.41	39°17'44.6833"N	80°45'49.4583"W	6849.30	181.860	3.00	0.63	-2.94	
12859.00	91.150	163.040	6865.72	6539.76	-6936.01	-192.92	1707287.80	14269614.12	39°17'43.7898"N	80°45'49.0872"W	6938.70	181.593	2.74	1.55	2.26	
12954.00	90.850	162.670	6864.06	6634.74	-7026.78	-164.92	1707315.79	14269523.39	39°17'42.8920"N	80°45'48.7341"W	7028.71	181.345	0.50	-0.32	-0.39	
13049.00	90.570	162.970	6862.88	6729.72	-7117.53	-136.86	1707343.84	14269432.67	39°17'41.9943"N	80°45'48.3802"W	7118.85	181.102	0.43	-0.29	0.32	
13143.00	90.660	162.450	6861.88	6823.71	-7207.28	-108.93	1707371.77	14269342.96	39°17'41.1065"N	80°45'48.0278"W	7208.10	180.866	0.56	0.10	-0.55	
13238.00	91.370	164.520	6860.19	6918.66	-7298.34	-81.93	1707398.76	14269251.94	39°17'40.2058"N	80°45'47.6875"W	7298.80	180.643	2.30	0.75	2.18	
13333.00	89.000	163.160	6859.89	7013.61	-7389.58	-55.49	1707425.18	14269160.74	39°17'39.3034"N	80°45'47.3542"W	7389.79	180.430	2.88	-2.49	-1.43	



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (183 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
13427.00	90.630	162.160	6860.19	7107.60	-7479.30	-27.47	1707453.19	14269071.05	39°17'38.4158"N	80°45'47.0009"W	7479.35	180.210	2.03	1.73	-1.06	
13522.00	90.910	164.300	6858.91	7202.56	-7570.25	-0.07	1707480.58	14268980.14	39°17'37.5163"N	80°45'46.6553"W	7570.25	180.001	2.27	0.29	2.25	
13616.00	90.380	163.300	6857.85	7296.51	-7660.51	26.15	1707506.79	14268889.91	39°17'36.6235"N	80°45'46.3248"W	7660.55	179.804	1.20	-0.56	-1.06	
13711.00	89.620	164.020	6857.85	7391.48	-7751.67	52.88	1707533.51	14268798.79	39°17'35.7218"N	80°45'45.9879"W	7751.85	179.609	1.10	-0.80	0.76	
13805.00	90.660	161.060	6857.62	7485.46	-7841.33	81.08	1707561.70	14268709.17	39°17'34.8349"N	80°45'45.6322"W	7841.75	179.408	3.34	1.11	-3.15	
13900.00	90.910	162.140	6856.32	7580.45	-7931.46	111.06	1707591.67	14268619.07	39°17'33.9433"N	80°45'45.2539"W	7932.24	179.198	1.17	0.26	1.14	
13995.00	89.950	161.300	6855.61	7675.44	-8021.66	140.86	1707621.46	14268528.90	39°17'33.0510"N	80°45'44.8779"W	8022.90	178.994	1.34	-1.01	-0.88	
14089.00	90.230	160.200	6855.46	7769.41	-8110.40	171.85	1707652.43	14268440.20	39°17'32.1731"N	80°45'44.4867"W	8112.22	178.786	1.21	0.30	-1.17	
14184.00	90.600	161.970	6854.77	7864.39	-8200.27	202.65	1707683.21	14268350.37	39°17'31.2841"N	80°45'44.0980"W	8202.77	178.584	1.90	0.39	1.86	
14279.00	90.230	162.150	6854.09	7959.39	-8290.65	231.91	1707712.46	14268260.02	39°17'30.3900"N	80°45'43.7289"W	8293.89	178.398	0.43	-0.39	0.19	
14373.00	90.420	161.260	6853.55	8053.39	-8379.89	261.41	1707741.96	14268170.81	39°17'29.5072"N	80°45'43.3566"W	8383.97	178.213	0.97	0.20	-0.95	
14468.00	90.390	161.500	6852.88	8148.38	-8469.92	291.74	1707772.28	14268080.82	39°17'28.6166"N	80°45'42.9738"W	8474.94	178.027	0.25	-0.03	0.25	
14562.00	90.350	161.990	6852.27	8242.37	-8559.18	321.19	1707801.71	14267991.59	39°17'27.7336"N	80°45'42.6023"W	8565.21	177.851	0.52	-0.04	0.52	
14657.00	90.540	162.140	6851.54	8337.37	-8649.57	350.44	1707830.95	14267901.25	39°17'26.8395"N	80°45'42.2333"W	8656.66	177.680	0.25	0.20	0.16	
14751.00	90.420	161.740	6850.75	8431.37	-8738.93	379.58	1707860.08	14267811.92	39°17'25.9555"N	80°45'41.8656"W	8747.17	177.513	0.44	-0.13	-0.43	
14846.00	90.720	161.820	6849.80	8526.36	-8829.16	409.28	1707889.77	14267721.72	39°17'25.0629"N	80°45'41.4909"W	8838.64	177.346	0.33	0.32	0.08	
14940.00	90.480	161.540	6848.82	8620.35	-8918.39	438.83	1707919.30	14267632.53	39°17'24.1802"N	80°45'41.1181"W	8929.18	177.183	0.39	-0.26	-0.30	
15035.00	90.350	161.510	6848.13	8715.35	-9008.50	468.93	1707949.40	14267542.46	39°17'23.2889"N	80°45'40.7383"W	9020.69	177.020	0.14	-0.14	-0.03	
15130.00	90.420	161.930	6847.49	8810.34	-9098.70	498.73	1707979.18	14267452.29	39°17'22.3965"N	80°45'40.3623"W	9112.36	176.863	0.45	0.07	0.44	
15224.00	90.780	161.930	6846.51	8904.34	-9188.06	527.89	1708008.33	14267362.97	39°17'21.5126"N	80°45'39.9945"W	9203.21	176.712	0.38	0.38	0.00	
15319.00	90.540	161.620	6845.41	8999.33	-9278.29	557.59	1708038.02	14267272.78	39°17'20.6200"N	80°45'39.6197"W	9295.03	176.561	0.41	-0.25	-0.33	
15413.00	90.720	160.990	6844.38	9093.31	-9367.32	587.72	1708068.14	14267183.78	39°17'19.7393"N	80°45'39.2395"W	9385.74	176.410	0.70	0.19	-0.67	
15508.00	90.140	161.550	6843.67	9188.30	-9457.29	618.23	1708098.63	14267093.85	39°17'18.8493"N	80°45'38.8546"W	9477.47	176.260	0.85	-0.61	0.59	
15602.00	90.290	160.960	6843.32	9282.29	-9546.30	648.43	1708128.83	14267004.87	39°17'17.9687"N	80°45'38.4734"W	9568.30	176.114	0.65	0.16	-0.63	
15697.00	90.020	161.910	6843.06	9377.28	-9636.35	678.68	1708159.06	14266914.85	39°17'17.0778"N	80°45'38.0917"W	9660.22	175.971	1.04	-0.28	1.00	
15791.00	90.780	162.350	6842.40	9471.28	-9725.82	707.52	1708187.89	14266825.42	39°17'16.1929"N	80°45'37.7279"W	9751.52	175.839	0.93	0.81	0.47	
15886.00	90.570	161.640	6841.28	9566.27	-9816.16	736.89	1708217.24	14266735.12	39°17'15.2992"N	80°45'37.3575"W	9843.78	175.707	0.78	-0.22	-0.75	
15981.00	90.200	161.990	6840.64	9661.27	-9906.41	766.53	1708246.88	14266644.90	39°17'14.4064"N	80°45'36.9835"W	9936.02	175.575	0.54	-0.39	0.37	
16075.00	90.660	161.900	6839.94	9755.27	-9995.78	795.67	1708276.00	14266555.57	39°17'13.5223"N	80°45'36.6160"W	10027.40	175.449	0.50	0.49	-0.10	
16170.00	90.450	162.030	6839.02	9850.26	-10086.11	825.08	1708305.40	14266465.28	39°17'12.6288"N	80°45'36.2450"W	10119.80	175.323	0.26	-0.22	0.14	



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

WELLPATH DATA (183 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
16264.00	90.850	161.710	6837.95	9944.25	-10175.43	854.32	1708334.63	14266375.98	39°17'11.7451"N	80°45'35.8760"W	10211.23	175.201	0.54	0.43	-0.34	
16350.00	90.750	161.640	6836.75	10030.24	-10257.06	881.36	1708361.66	14266294.39	39°17'10.9376"N	80°45'35.5350"W	10294.86	175.089	0.14	-0.12	-0.08	
16371.00‡	90.750	161.640	6836.48	10051.24	-10276.99	887.97	1708368.27	14266274.46	39°17'10.7405"N	80°45'35.4515"W	10315.28	175.062	0.00	0.00	0.00	Projected MD at TD: 16371'

HOLE & CASING SECTIONS - Ref Wellbore: Mule Unit 2H AWB Ref Wellpath: Mule Unit 2H AWP Proj: 16371'									
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]
16in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	-0.43	-0.08
13.5in Open Hole	130.00	355.00	225.00	130.00	354.99	-0.43	-0.08	-2.66	-0.52
10.75in Casing Surface	30.00	335.00	305.00	30.00	334.99	0.00	0.00	-2.44	-0.42
9.875in Open Hole	355.00	2718.00	2363.00	354.99	2589.77	-2.66	-0.52	-447.14	-527.37
7.625in Casing Intermediate	30.00	2698.00	2668.00	30.00	2570.78	0.00	0.00	-441.36	-524.95
6.75in Open Hole	2718.00	16371.00	13653.00	2589.77	6836.48	-447.14	-527.37	-10276.99	887.97
5in Casing Production	30.00	16351.00	16321.00	30.00	6836.74	0.00	0.00	-10258.01	881.68



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mule Unit 2H POE Rev-3	6858.00	-1898.76	-1817.78	1705663.59	14274649.37	39°18'33.6178"N	80°46'9.5912"W	point
Mule Unit 2H BHL Rev-4	6901.00	-10290.71	897.95	1708378.24	14266260.76	39°17'10.6047"N	80°45'35.3251"W	point
Mule Unit 2H LP Rev-3	6901.00	-2131.31	-1742.52	1705738.82	14274416.91	39°18'31.3174"N	80°46'8.6414"W	point
Mule Unit 2H 50' L/R Hard Line Rev-2	7250.00	-6094.74	-459.92	1707020.92	14270455.06	39°17'52.1116"N	80°45'52.4554"W	rectangle
2D Rectangle 8820.43 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Mule Unit 2H AWB Ref Wellpath: Mule Unit 2H AWP Proj: 16371'

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 <13-1/2"> (100'-380')	Mule Unit 2H AWB	4/1/2022
380.00	2650.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <9-7/8"> (380')(412'-2650')	Mule Unit 2H AWB	4/1/2022
2650.00	6460.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <6-3/4"> (2650')(2716'-6460')	Mule Unit 2H AWB	6/13/2022
6460.00	16371.00	BH OnTrak (2019) (HRGM, Short spacing)	04 BH Lucida <6-3/4"> (6460')(6524'-16350')	Mule Unit 2H AWB	6/13/2022



Actual Wellpath Report

Mule Unit 2H AWP Proj: 16371'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 2H
Field	Doddridge	API	47-017-06917-0000
Facility	Gaspar Pad	Wellbore	Mule Unit 2H AWB
Slot	Slot B		

COMMENTS

Wellpath general comments

API: 47-017-06917-0000

BH Job #: 111277260

Rig: H&P 531

Duration: 6/16/2022-6/21/2022

Gyrodata MS Gyro <13-1/2"> (100'-380')

APS EM <9-7/8"> (380')(412'-2650')

APS EM <6-3/4"> (2650')(2716'-6460')

BH Lucida <6-3/4"> (6460')(6524'-16350')

Sycamore: 6929' MD

Middlesex: 7184' MD

Burkett: 7388' MD

Tully: 7443' MD

Marcellus POE: 7560' MD

Projected MD at TD: 16371'