



# ANTERO RESOURCES CORPORATION

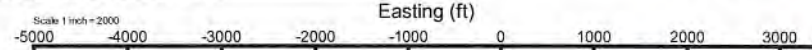


Location: Doddridge Co., WV  
 Field: Doddridge  
 Facility: Gaspar Pad

Slot: Slot C  
 Well: Mule Unit 3H  
 Wellbore: Mule Unit 3H PWB

Plot reference wellpath is Mule Unit 3H PWB Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depth 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 C): -1189 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: adstaylor on 2022-06-13; Database: WA MPL EASTERN.S.Datb

Well Data			
Slot	Well	Wellbore	Wellpath
Slot C	Mule Unit 3H	Mule Unit 3H AWB	Mule Unit 3H AWP Proj: 6979'
Slot C	Mule Unit 3H	Mule Unit 3H PWB	Mule Unit 3H PWP Rev-B.0



Gyrodata MS Gyro <13-1/2"> (100'-377') : 100.00ft TVD, 0.15ft N, 0.22ft W  
 APS EM <9-7/8"> (377')(412'-2562') : 412.97ft TVD, 1.74ft N, 3.91ft W  
 APS EM [OH] <6-3/4"> (2562')(2666'-6926') : 2598.02ft TVD, 305.26ft S, 388.73ft W  
 Projected MD at TD [OH]: 6979' MD : 6759.16ft TVD, 1045.86ft S, 1142.47ft W

Scale 1 inch = 1409.00  
  
 Gyrodata MS Gyro <13-1/2"> (100'-377') : 0.43° Inc, 100.00ft MD, 100.00ft TVD, -0.21ft VS  
 APS EM <9-7/8"> (377')(412'-2562') : 0.91° Inc, 412.00ft MD, 411.97ft TVD, -2.86ft VS

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°45'46.5558"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot C	17.97	24.07	1707492.650	14276556.410	39°18'52.4270"N	80°45'46.2490"W
Comment		Mule Unit 3H				
H&P 531 (RKB) to Ground level (At Slot: Slot C)		30ft				
Mean Sea Level to Ground level (At Slot: Slot C)		-1189ft				
H&P 531 (RKB) to Mean Sea Level		1219ft				

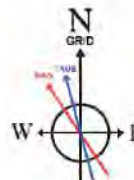
APS EM [OH] <6-3/4"> (2562')(2666'-6926') : 21.50° Inc, 2666.00ft MD, 2598.02ft TVD, 170.12ft VS

API: 47-017-06918-0100  
 BH Job #: 111277266  
 Rig: H&P 531  
 Duration: 5/29/2022-6/2/2022

Well Profile Data							
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	2562.00	21.030	213.080	2501.06	-271.85	-371.61	143.64
Proj. to Bottom	2637.00	21.030	213.080	2571.06	-294.41	-386.30	160.54
Drill Out	2717.00	21.030	213.080	2645.74	-318.46	-401.97	178.57
End of 3D Arc	3189.52	14.577	236.171	3095.93	-422.84	-497.86	248.19
Curve KOP	6448.91	14.577	236.171	6250.41	-879.53	-1179.30	471.82
POE	7283.25	70.045	161.992	6868.00	-1367.35	-1140.84	947.63
Landing Pt.	7532.69	90.000	161.992	6911.00	-1599.81	-1065.28	1192.05
BHL	16124.25	90.000	161.992	6911.00	-9770.51	1590.76	9783.61

Projected MD at TD [OH]: 6979' MD : 20.81° Inc, 6979.00ft MD, 6759.16ft TVD, 641.38ft VS

Vertical Section (ft)  
 Azimuth 161.99° with reference 0.00 N, 0.00 E



User specified (HDGM) Dip: 66.17° Field: 51801 nT  
 Magnetic North is 7.53 degrees West of True North (at 6/2/2022)  
 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

Scale 1 inch = 1500



# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 3H
Field	Doddridge	API	47-017-06918-0100
Facility	Gaspar Pad	Wellbore	Mule Unit 3H AWB
Slot	Slot C		

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	6/13/2022 at 12:07:38 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	17.97	24.07	1707492.65	14276556.41	39°18'52.4270"N	80°45'46.2490"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 C)	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	161.99°





# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Mule Unit 3H
Field	Doddridge		API	47-017-06918-0100
Facility	Gaspar Pad		Wellbore	Mule Unit 3H AWB
Slot	Slot C			

WELLPATH DATA (80 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	304.610	0.00	0.00	0.00	0.00	1707492.65	14276556.41	39°18'52.4270"N	80°45'46.2490"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	304.610	30.00	0.00	0.00	0.00	1707492.65	14276556.41	39°18'52.4270"N	80°45'46.2490"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.430	304.610	100.00	-0.21	0.15	-0.22	1707492.43	14276556.56	39°18'52.4285"N	80°45'46.2518"W	0.26	304.610	0.61	0.61	0.00	Gyrodala MS Gyro <13-1/2"> (100'-377')
200.00	0.660	283.320	199.99	-0.81	0.50	-1.09	1707491.56	14276556.90	39°18'52.4319"N	80°45'46.2628"W	1.19	294.515	0.30	0.23	-21.29	
300.00	0.820	297.490	299.99	-1.62	0.96	-2.28	1707490.37	14276557.37	39°18'52.4365"N	80°45'46.2780"W	2.47	292.785	0.24	0.16	14.17	
377.00	1.000	296.970	376.98	-2.48	1.52	-3.37	1707489.28	14276557.93	39°18'52.4421"N	80°45'46.2918"W	3.69	294.247	0.23	0.23	-0.68	
412.00	0.910	286.970	411.97	-2.86	1.74	-3.91	1707488.75	14276558.15	39°18'52.4443"N	80°45'46.2987"W	4.28	293.969	0.54	-0.26	-28.57	APS EM <9-7/8"> (377')(412'-2562')
502.00	0.610	280.130	501.96	-3.50	2.03	-5.06	1707487.59	14276558.44	39°18'52.4472"N	80°45'46.3133"W	5.45	291.850	0.35	-0.33	-7.60	
593.00	2.180	248.110	592.94	-3.61	1.47	-7.14	1707485.51	14276557.88	39°18'52.4417"N	80°45'46.3399"W	7.29	281.622	1.86	1.73	-35.19	
683.00	5.600	240.920	682.71	-2.65	-1.30	-12.57	1707480.08	14276555.11	39°18'52.4144"N	80°45'46.4090"W	12.64	264.079	3.83	3.80	-7.99	
773.00	6.780	238.760	772.19	-0.59	-6.19	-20.95	1707471.71	14276550.22	39°18'52.3663"N	80°45'46.5158"W	21.85	253.532	1.34	1.31	-2.40	
863.00	6.970	235.990	861.54	2.13	-12.00	-30.02	1707462.64	14276544.41	39°18'52.3091"N	80°45'46.6314"W	32.33	248.207	0.42	0.21	-3.08	
953.00	7.850	235.500	950.79	5.38	-18.54	-39.61	1707453.05	14276537.88	39°18'52.2448"N	80°45'46.7536"W	43.74	244.921	0.98	0.98	-0.54	
1044.00	10.200	231.930	1040.66	9.91	-27.03	-51.08	1707441.59	14276529.39	39°18'52.1612"N	80°45'46.8998"W	57.79	242.115	2.65	2.58	-3.92	
1138.00	12.390	234.920	1132.83	15.73	-37.96	-65.89	1707426.79	14276518.47	39°18'52.0535"N	80°45'47.0885"W	76.04	240.053	2.41	2.33	3.18	
1233.00	12.790	231.120	1225.55	22.46	-50.42	-82.41	1707410.27	14276506.01	39°18'51.9308"N	80°45'47.2992"W	96.61	238.544	0.97	0.42	-4.00	
1332.00	12.340	223.930	1322.18	31.35	-64.91	-98.28	1707394.40	14276491.52	39°18'51.7880"N	80°45'47.5016"W	117.79	236.556	1.64	-0.45	-7.26	
1427.00	13.540	223.040	1414.77	41.50	-80.35	-112.92	1707379.78	14276476.09	39°18'51.6357"N	80°45'47.6883"W	138.59	234.564	1.28	1.26	-0.94	
1521.00	14.810	228.940	1505.91	51.54	-96.29	-129.49	1707363.21	14276460.16	39°18'51.4787"N	80°45'47.8997"W	161.37	233.365	2.04	1.35	6.28	
1616.00	14.990	238.260	1597.73	59.21	-110.73	-149.09	1707343.61	14276445.72	39°18'51.3364"N	80°45'48.1496"W	185.72	233.400	2.53	0.19	9.81	
1710.00	14.520	238.360	1688.63	64.87	-123.31	-169.47	1707323.25	14276433.15	39°18'51.2127"N	80°45'48.4092"W	209.58	233.960	0.50	-0.50	0.11	
1805.00	15.080	238.780	1780.48	70.50	-135.96	-190.17	1707302.55	14276420.51	39°18'51.0882"N	80°45'48.6731"W	233.77	234.438	0.60	0.59	0.44	
1900.00	16.030	240.770	1872.00	75.88	-148.77	-212.19	1707280.55	14276407.70	39°18'50.9621"N	80°45'48.9536"W	259.15	234.965	1.15	1.00	2.09	
1994.00	15.950	231.660	1962.37	82.89	-163.12	-233.65	1707259.09	14276393.35	39°18'50.8208"N	80°45'49.2271"W	284.96	235.079	2.67	-0.09	-9.69	
2089.00	13.690	229.130	2054.21	91.79	-178.58	-252.39	1707240.36	14276377.90	39°18'50.6685"N	80°45'49.4661"W	309.18	234.719	2.47	-2.38	-2.66	
2184.00	14.070	237.320	2146.44	99.08	-192.17	-270.61	1707222.15	14276364.32	39°18'50.5347"N	80°45'49.6984"W	331.90	234.620	2.10	0.40	8.62	
2278.00	19.700	240.670	2236.36	105.09	-206.11	-294.06	1707198.71	14276350.38	39°18'50.3975"N	80°45'49.9972"W	359.10	234.973	6.08	5.99	3.56	
2373.00	22.330	237.440	2325.03	112.77	-223.67	-323.24	1707169.54	14276332.83	39°18'50.2247"N	80°45'50.3690"W	393.08	235.318	3.02	2.77	-3.40	
2467.00	21.170	224.680	2412.39	125.05	-245.36	-350.24	1707142.55	14276311.14	39°18'50.0110"N	80°45'50.7132"W	427.63	234.987	5.17	-1.23	-13.57	
2562.00	21.030	213.080	2501.06	143.64	-271.85	-371.61	1707121.18	14276284.66	39°18'49.7497"N	80°45'50.9861"W	460.44	233.813	4.39	-0.15	-12.21	





# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 3H
Field	Doddridge	API	47-017-06918-0100
Facility	Gaspar Pad	Wellbore	Mule Unit 3H AWB
Slot	Slot C		

WELLPATH DATA (80 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
2666.00	21.500	201.290	2598.02	170.12	-305.26	-388.73	1707104.08	14276251.27	39°18'49.4199"N	80°45'51.2049"W	494.26	231.858	4.13	0.45	-11.34	APS EM [OH] <6-3/4"> (2562')(2666'-6926')
2760.00	16.090	198.420	2686.98	193.95	-333.69	-399.11	1707093.70	14276222.85	39°18'49.1392"N	80°45'51.3379"W	520.23	230.101	5.84	-5.76	-3.05	
2855.00	13.190	209.270	2778.90	211.90	-355.65	-408.57	1707084.24	14276200.90	39°18'48.9225"N	80°45'51.4590"W	541.68	228.961	4.19	-3.05	11.42	
2949.00	14.510	221.340	2870.19	225.18	-373.85	-421.59	1707071.22	14276182.71	39°18'48.7429"N	80°45'51.6253"W	563.47	228.435	3.37	1.40	12.84	
3044.00	14.060	215.220	2962.26	238.16	-392.21	-436.11	1707056.71	14276164.35	39°18'48.5618"N	80°45'51.8106"W	586.53	228.034	1.66	-0.47	-6.44	
3144.00	13.620	218.310	3059.35	251.96	-411.37	-450.41	1707042.41	14276145.20	39°18'48.3727"N	80°45'51.9933"W	610.00	227.594	0.86	-0.44	3.09	
3238.00	15.790	227.840	3150.28	263.33	-428.65	-466.76	1707026.08	14276127.93	39°18'48.2024"N	80°45'52.2018"W	633.72	227.437	3.45	2.31	10.14	
3332.00	14.170	235.310	3241.09	271.87	-443.78	-485.70	1707007.14	14276112.80	39°18'48.0533"N	80°45'52.4433"W	657.91	227.582	2.68	-1.72	7.95	
3427.00	14.390	238.590	3333.16	277.94	-456.55	-505.34	1706987.51	14276100.04	39°18'47.9276"N	80°45'52.6936"W	681.04	227.904	0.88	0.23	3.45	
3522.00	18.610	244.320	3424.23	282.70	-469.28	-529.09	1706963.77	14276087.32	39°18'47.8025"N	80°45'52.9961"W	707.22	228.428	4.76	4.44	6.03	
3616.00	16.830	237.070	3513.78	288.21	-483.18	-554.03	1706938.84	14276073.42	39°18'47.6657"N	80°45'53.3139"W	735.13	228.908	3.01	-1.89	-7.71	
3710.00	17.000	240.590	3603.72	294.43	-497.33	-577.43	1706915.45	14276059.28	39°18'47.5265"N	80°45'53.6120"W	762.07	229.262	1.10	0.18	3.74	
3805.00	16.280	239.760	3694.74	299.99	-510.85	-601.03	1706891.86	14276045.76	39°18'47.3934"N	80°45'53.9128"W	788.80	229.637	0.80	-0.76	-0.87	
3899.00	15.970	243.790	3785.04	304.63	-523.20	-624.01	1706868.88	14276033.42	39°18'47.2720"N	80°45'54.2056"W	814.33	230.022	1.24	-0.33	4.29	
3994.00	17.560	246.340	3876.00	307.91	-534.72	-648.87	1706844.04	14276021.90	39°18'47.1587"N	80°45'54.5222"W	840.81	230.508	1.84	1.67	2.63	
4088.00	17.050	238.770	3965.76	312.45	-547.56	-673.64	1706819.28	14276009.07	39°18'47.0325"N	80°45'54.8378"W	868.11	230.895	2.45	-0.54	-8.05	
4183.00	13.320	239.350	4057.43	318.04	-560.37	-694.97	1706797.95	14275996.27	39°18'46.9065"N	80°45'55.1096"W	892.75	231.120	3.93	-3.93	0.61	
4278.00	13.210	245.610	4149.90	321.64	-570.43	-714.27	1706778.66	14275986.21	39°18'46.8075"N	80°45'55.3555"W	914.10	231.389	1.52	-0.12	6.59	
4372.00	14.960	249.810	4241.07	323.29	-579.05	-735.45	1706757.50	14275977.59	39°18'46.7228"N	80°45'55.6252"W	936.05	231.785	2.15	1.86	4.47	
4467.00	12.200	240.460	4333.41	325.76	-588.23	-755.69	1706737.26	14275968.41	39°18'46.6326"N	80°45'55.8831"W	957.65	232.103	3.70	-2.91	-9.84	
4561.00	12.720	238.730	4425.20	330.12	-598.50	-773.18	1706719.78	14275958.14	39°18'46.5315"N	80°45'56.1059"W	977.76	232.257	0.68	0.55	-1.84	
4655.00	14.500	238.320	4516.56	335.28	-610.06	-792.04	1706700.92	14275946.60	39°18'46.4178"N	80°45'56.3462"W	999.75	232.395	1.90	1.89	-0.44	
4750.00	10.100	224.360	4609.37	341.96	-622.27	-808.00	1706684.97	14275934.39	39°18'46.2975"N	80°45'56.5497"W	1019.84	232.399	5.56	-4.63	-14.69	
4844.00	11.180	226.910	4701.76	349.64	-634.39	-820.42	1706672.56	14275922.28	39°18'46.1781"N	80°45'56.7080"W	1037.08	232.287	1.25	1.15	2.71	
4939.00	17.920	239.280	4793.68	356.77	-648.16	-839.73	1706653.25	14275908.51	39°18'46.0424"N	80°45'56.9543"W	1060.79	232.337	7.77	7.09	13.02	
5033.00	15.090	228.760	4883.82	364.78	-663.62	-861.38	1706631.62	14275893.05	39°18'45.8902"N	80°45'57.2301"W	1087.36	232.389	4.37	-3.01	-11.19	
5128.00	14.590	227.750	4975.65	374.57	-679.82	-879.53	1706613.47	14275876.86	39°18'45.7305"N	80°45'57.4616"W	1111.63	232.298	0.59	-0.53	-1.06	
5222.00	18.150	235.830	5065.83	383.51	-696.01	-900.42	1706592.59	14275860.68	39°18'45.5711"N	80°45'57.7279"W	1138.06	232.296	4.49	3.79	8.60	
5317.00	17.970	232.360	5156.16	392.55	-713.27	-924.27	1706568.75	14275843.42	39°18'45.4011"N	80°45'58.0319"W	1167.48	232.342	1.15	-0.19	-3.65	
5412.00	17.830	231.000	5246.56	402.69	-731.37	-947.17	1706545.85	14275825.33	39°18'45.2227"N	80°45'58.3239"W	1196.68	232.326	0.46	-0.15	-1.43	





# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 3H
Field	Doddridge	API	47-017-06918-0100
Facility	Gaspar Pad	Wellbore	Mule Unit 3H AWB
Slot	Slot C		

WELLPATH DATA (80 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
5506.00	16.210	233.890	5336.44	411.92	-748.16	-968.96	1706524.08	14275808.54	39°18'45.0573"N	80°45'58.6016"W	1224.19	232.327	1.94	-1.72	3.07	
5601.00	11.530	228.660	5428.65	419.80	-762.26	-986.81	1706506.23	14275794.45	39°18'44.9185"N	80°45'58.8292"W	1246.93	232.316	5.10	-4.93	-5.51	
5696.00	10.910	235.480	5521.84	426.12	-773.62	-1001.35	1706491.70	14275783.09	39°18'44.8065"N	80°45'59.0145"W	1265.38	232.311	1.54	-0.65	7.18	
5790.00	11.200	239.500	5614.09	430.62	-783.30	-1016.54	1706476.51	14275773.42	39°18'44.7113"N	80°45'59.2082"W	1283.32	232.384	0.88	0.31	4.28	
5885.00	9.970	236.240	5707.48	434.85	-792.55	-1031.33	1706461.73	14275764.17	39°18'44.6202"N	80°45'59.3966"W	1300.68	232.459	1.44	-1.29	-3.43	
5980.00	10.990	235.970	5800.89	439.58	-802.19	-1045.67	1706447.39	14275754.54	39°18'44.5253"N	80°45'59.5794"W	1317.93	232.506	1.07	1.07	-0.28	
6074.00	10.120	233.790	5893.30	444.63	-812.08	-1059.76	1706433.31	14275744.65	39°18'44.4279"N	80°45'59.7590"W	1335.13	232.537	1.02	-0.93	-2.32	
6169.00	10.920	227.020	5986.70	451.04	-823.15	-1073.08	1706420.00	14275733.59	39°18'44.3189"N	80°45'59.9288"W	1352.43	232.509	1.55	0.84	-7.13	
6231.00	12.020	228.180	6047.47	456.12	-831.46	-1082.19	1706410.89	14275725.28	39°18'44.2370"N	80°46'0.0449"W	1364.72	232.464	1.81	1.77	1.87	
6284.00	14.310	220.690	6099.07	461.76	-840.11	-1090.57	1706402.51	14275716.64	39°18'44.1517"N	80°46'0.1519"W	1376.63	232.392	5.38	4.32	-14.13	
6325.00	16.060	214.810	6138.64	467.82	-848.60	-1097.11	1706395.97	14275708.14	39°18'44.0679"N	80°46'0.2354"W	1387.01	232.278	5.68	4.27	-14.34	
6419.00	16.860	205.720	6228.80	485.53	-871.57	-1110.45	1706382.64	14275685.19	39°18'43.8413"N	80°46'0.4059"W	1411.64	231.873	2.87	0.85	-9.67	
6514.00	20.400	200.870	6318.82	508.38	-899.46	-1122.34	1706370.76	14275667.31	39°18'43.5659"N	80°46'0.5579"W	1438.28	231.291	4.06	3.73	-5.11	
6609.00	20.570	194.290	6407.82	535.38	-931.11	-1132.35	1706360.75	14275625.67	39°18'43.2534"N	80°46'0.6865"W	1466.01	230.570	2.43	0.18	-6.93	
6703.00	20.040	175.170	6496.08	565.05	-963.19	-1135.08	1706358.02	14275593.60	39°18'42.9363"N	80°46'0.7222"W	1488.67	229.683	7.05	-0.56	-20.34	
6755.00	17.970	185.600	6545.26	581.08	-980.06	-1135.11	1706357.99	14275576.74	39°18'42.7696"N	80°46'0.7231"W	1499.67	229.192	7.63	-3.98	20.06	
6798.00	17.930	187.320	6586.16	593.15	-993.23	-1136.60	1706356.50	14275563.58	39°18'42.6395"N	80°46'0.7425"W	1509.42	228.851	1.24	-0.09	4.00	
6891.00	14.770	182.480	6675.39	617.20	-1019.28	-1138.94	1706354.16	14275537.54	39°18'42.3821"N	80°46'0.7731"W	1528.43	228.173	3.70	-3.40	-5.20	
6926.00	17.140	186.600	6709.05	626.07	-1028.86	-1139.72	1706353.38	14275527.96	39°18'42.2874"N	80°46'0.7834"W	1535.42	227.927	7.50	6.77	11.77	
6979.00‡	20.810	191.330	6759.16	641.38	-1045.86	-1142.47	1706350.63	14275510.97	39°18'42.1195"N	80°46'0.8189"W	1548.89	227.528	7.50	6.92	8.92	Projected MD at TD [OH]: 6979' MD



# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 3H
Field	Doddridge	API	47-017-06918-0100
Facility	Gaspar Pad	Wellbore	Mule Unit 3H AWB
Slot	Slot C		

## HOLE & CASING SECTIONS - Ref Wellbore: Mule Unit 3H AWB Ref Wellpath: Mule Unit 3H AWP Proj: 6979'

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	0.27	-0.42
13.5in Open Hole	130.00	354.00	224.00	130.00	353.98	0.27	-0.42	1.34	-3.02
10.75in Casing Surface	30.00	334.00	304.00	30.00	333.98	0.00	0.00	1.19	-2.73
9.875in Open Hole	354.00	2637.00	2283.00	353.98	2571.02	1.34	-3.02	-295.52	-384.61
7.625in Casing Intermediate	30.00	2617.00	2587.00	30.00	2552.38	0.00	0.00	-288.99	-381.48
6.75in Open Hole	2637.00	6979.00	4342.00	2571.02	6759.16	-295.52	-384.61	-1045.86	-1142.47





# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 3H
Field	Doddridge	API	47-017-06918-0100
Facility	Gaspar Pad	Wellbore	Mule Unit 3H AWB
Slot	Slot C		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mule Unit 3H POE Rev-3	6868.00	-1367.35	-1140.84	1706352.26	14275189.60	39°18'38.9419"N	80°46'0.8088"W	point
Mule Unit 3H AZI Rev-1	6911.00	-2178.08	-877.30	1706615.70	14274379.19	39°18'30.9222"N	80°45'57.4826"W	point
Mule Unit 3H BHL Rev-4	6911.00	-9770.51	1590.76	1709082.78	14266789.78	39°17'15.8169"N	80°45'26.3434"W	point
Mule Unit 3H LP Rev-3	6911.00	-1599.81	-1065.28	1706427.79	14274957.24	39°18'36.6425"N	80°45'59.8551"W	point
Mule Unit 3H LP Rev-4	6911.00	-1518.80	-1080.16	1706412.92	14275038.21	39°18'37.4435"N	80°46'0.0417"W	point
Mule Unit 3H 50' L/R Hard Line Rev-2	7250.00	-5568.93	224.96	1707717.52	14270989.69	39°17'57.3798"N	80°45'43.5733"W	rectangle
2D Rectangle 8835.98 x 100.								

## WELLPATH COMPOSITION - Ref Wellbore: Mule Unit 3H AWB Ref Wellpath: Mule Unit 3H AWP Proj: 6979'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	377.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <13-1/2"> (100'-377')	Mule Unit 3H AWB	4/4/2022
377.00	2562.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <9-7/8"> (377')(412'-2562')	Mule Unit 3H AWB	4/4/2022
2562.00	6979.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <6-3/4"> (2562')(2666'-6926')	Mule Unit 3H AWB	5/26/2022



# Actual Wellpath Report

Mule Unit 3H AWP Proj: 6979'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mule Unit 3H
Field	Doddridge	API	47-017-06918-0100
Facility	Gaspar Pad	Wellbore	Mule Unit 3H AWB
Slot	Slot C		

## COMMENTS

### Wellpath general comments

API: 47-017-06918-0100

BH Job #: 111277266

Rig: H&P 531

Duration: 5/29/2022-6/2/2022

Gyrodata MS Gyro <13-1/2"> (100'-377')

APS EM <9-7/8"> (377')(412'-2562')

APS EM <6-3/4"> (2562')(2666'-6926')

Projected MD at TD: 6979'