



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Mondeo Unit 3H
Field	Doddridge	Wellbore	Mondeo Unit 3H AWB
Facility	Deets Pad		

## REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999607	Report Generated	9/14/2019 at 8:51:20 PM
Convergence at slot	0.17° East	Database/Source file	WA_MPL_EasternUS_Defn/Mondeo_Unit_3H_AWP_Proj_22829_.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Northing[US ft]	Latitude	Longitude	
Slot Location	19.53	-4.42	14276581.51	39°18'52.379"N	80°43'31.515"W	
Facility Reference Pt			1718082.64	39°18'52.186"N	80°43'31.460"W	
Field Reference Pt			0.00	0°00'00.000"	85°29'19.301"W	

## WELLPATH DATUM

Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	25.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1401.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #03)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.45°



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Area	Doddridge Co., WV	Wellbore	Mondeo Unit 3H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (265 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
0.00†	0.000	119.950	0.00	0.00	0.00	0.00	1718078.22	14276581.51	39°18'52.379"N	80°43'31.515"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	119.950	25.50	0.00	0.00	0.00	1718078.22	14276581.51	39°18'52.379"N	80°43'31.515"W	0.00	0.000	0.00	0.00	0.00	
100.00	1.070	119.950	100.00	0.52	-0.35	0.60	1718078.82	14276581.16	39°18'52.376"N	80°43'31.507"W	0.70	119.950	1.44	1.44	161.01	Gyrodatta MS Gyro <17-1/2">(100'-300')
125.00	1.070	118.740	124.99	0.87	-0.58	1.01	1718079.23	14276580.93	39°18'52.373"N	80°43'31.502"W	1.16	119.707	0.09	0.00	-4.84	
150.00	0.910	119.430	149.99	1.19	-0.79	1.39	1718079.61	14276580.72	39°18'52.371"N	80°43'31.497"W	1.59	119.531	0.64	-0.64	2.76	
175.00	0.660	132.390	174.99	1.46	-0.98	1.67	1718079.89	14276580.53	39°18'52.369"N	80°43'31.494"W	1.93	120.470	1.22	-1.00	51.84	
200.00	0.410	136.720	199.98	1.67	-1.14	1.83	1718080.05	14276580.37	39°18'52.368"N	80°43'31.492"W	2.16	121.923	1.01	-1.00	17.32	
225.00	0.380	149.550	224.98	1.83	-1.28	1.94	1718080.16	14276580.23	39°18'52.366"N	80°43'31.490"W	2.32	123.435	0.37	-0.12	51.32	
250.00	0.420	153.710	249.98	2.00	-1.43	2.02	1718080.24	14276580.08	39°18'52.365"N	80°43'31.489"W	2.48	125.348	0.20	0.16	16.64	
275.00	0.390	161.160	274.98	2.18	-1.60	2.09	1718080.31	14276579.92	39°18'52.363"N	80°43'31.489"W	2.63	127.383	0.24	-0.12	29.80	
300.00	0.520	166.950	299.98	2.37	-1.79	2.14	1718080.36	14276579.72	39°18'52.361"N	80°43'31.488"W	2.79	129.841	0.55	0.52	23.16	
427.00	0.750	164.620	426.97	3.78	-3.15	2.49	1718080.71	14276577.30	39°18'52.348"N	80°43'31.483"W	4.02	141.649	0.18	0.18	-1.83	APS EM <12-1/4"> (300')(427'-2540')
516.00	0.640	176.800	515.97	4.84	-4.21	2.67	1718080.89	14276577.30	39°18'52.337"N	80°43'31.481"W	4.99	147.561	0.21	-0.12	13.69	
608.00	0.890	185.480	607.96	5.99	-5.43	2.63	1718080.85	14276576.08	39°18'52.325"N	80°43'31.482"W	6.04	154.125	0.30	0.27	9.43	
700.00	1.040	262.490	699.95	6.48	-6.25	1.74	1718079.96	14276575.26	39°18'52.317"N	80°43'31.493"W	6.49	164.461	1.31	0.16	83.71	
793.00	2.390	307.650	792.91	4.71	-5.18	-0.63	1718077.59	14276576.33	39°18'52.328"N	80°43'31.523"W	5.22	186.979	1.95	1.45	48.56	
888.00	4.390	338.330	887.74	-0.57	-0.59	-3.55	1718074.68	14276580.92	39°18'52.373"N	80°43'31.560"W	3.59	260.582	2.77	2.11	32.29	
983.00	4.290	336.310	982.47	-7.74	6.04	-6.32	1718071.91	14276587.55	39°18'52.439"N	80°43'31.595"W	8.74	313.745	0.19	-0.11	-2.13	
1077.00	2.480	332.620	1076.30	-13.25	11.07	-8.66	1718069.56	14276592.58	39°18'52.489"N	80°43'31.625"W	14.06	321.954	1.94	-1.93	-3.93	
1172.00	1.940	74.460	1171.26	-15.20	13.33	-8.06	1718070.16	14276594.83	39°18'52.511"N	80°43'31.617"W	15.57	328.837	3.63	-0.57	107.20	
1267.00	4.430	90.610	1266.11	-13.91	13.72	-2.84	1718075.38	14276595.22	39°18'52.515"N	80°43'31.551"W	14.01	348.302	2.76	2.62	17.00	
1361.00	4.270	109.280	1359.84	-10.57	12.52	4.09	1718082.31	14276594.03	39°18'52.503"N	80°43'31.462"W	13.18	18.098	1.51	-0.17	19.86	
1456.00	5.090	149.910	1454.55	-4.27	7.71	9.55	1718087.76	14276589.22	39°18'52.455"N	80°43'31.393"W	12.27	51.075	3.51	0.86	42.77	
1551.00	7.370	178.250	1549.00	5.69	-2.03	11.85	1718090.06	14276579.48	39°18'52.359"N	80°43'31.364"W	12.02	99.728	3.96	2.40	29.83	
1646.00	5.080	184.290	1643.44	15.40	-12.32	11.72	1718089.93	14276569.20	39°18'52.257"N	80°43'31.366"W	17.00	136.429	2.50	-2.41	6.36	
1740.00	4.630	109.260	1737.18	21.57	-17.72	14.99	1718093.20	14276563.79	39°18'52.203"N	80°43'31.325"W	23.21	139.775	6.30	-0.48	-79.82	
1835.00	5.480	70.780	1831.84	23.87	-17.49	22.90	1718101.11	14276564.02	39°18'52.205"N	80°43'31.224"W	28.81	127.383	3.60	0.89	-40.51	
1930.00	3.080	60.820	1926.57	23.35	-14.76	29.41	1718107.62	14276566.76	39°18'52.232"N	80°43'31.141"W	32.90	116.646	2.64	-2.53	-10.48	
2025.00	1.590	0.610	2021.50	21.63	-12.19	31.65	1718109.86	14276569.32	39°18'52.258"N	80°43'31.113"W	33.92	111.069	2.81	-1.57	-63.38	
2120.00	2.520	328.840	2116.44	18.35	-9.09	30.58	1718108.79	14276572.43	39°18'52.288"N	80°43'31.126"W	31.91	106.550	1.51	0.98	-33.44	



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Operator	ANTERO RESOURCES CORPORATION	Well	Mondeo Unit 3H
Area	Doddridge Co., WV	Wellbore	Mondeo Unit 3H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (265 stations)														Turn Rate	Comments	
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
2215.00	3.900	292.850	2211.30	14.17	-6.05	26.53	1718104.74	14276575.47	39°18'52.318"N	80°43'31.178"W	27.21	102.840	2.50	1.45	-37.88	
2309.00	7.140	271.960	2304.86	10.01	-4.60	17.74	1718095.95	14276576.91	39°18'52.333"N	80°43'31.290"W	18.33	104.552	4.00	3.45	-22.22	
2404.00	7.520	261.210	2399.09	6.89	-5.35	5.69	1718083.91	14276576.16	39°18'52.326"N	80°43'31.443"W	7.81	133.230	1.50	0.40	-11.32	
2499.00	5.960	236.780	2493.45	7.08	-9.01	-4.58	1718073.64	14276572.51	39°18'52.290"N	80°43'31.574"W	10.10	206.948	3.40	-1.64	-25.72	
2540.00	6.340	231.820	2534.21	8.38	-11.57	-8.14	1718070.08	14276569.94	39°18'52.265"N	80°43'31.619"W	14.15	215.121	1.59	0.93	-12.10	
2651.00	5.890	203.600	2644.60	14.66	-20.58	-15.24	1718062.99	14276566.94	39°18'52.176"N	80°43'31.710"W	25.61	216.517	2.71	-0.41	-25.42	APS EM <-8.314> (2540)-(2651)-6445)
2746.00	3.340	199.120	2739.29	20.47	-27.66	-18.10	1718060.13	14276553.86	39°18'52.106"N	80°43'31.746"W	33.06	213.192	2.71	-2.68	-4.72	
2841.00	0.420	0.710	2834.24	22.33	-29.93	-19.00	1718059.23	14276551.59	39°18'52.084"N	80°43'31.758"W	35.45	212.406	3.94	-3.07	170.09	
2935.00	1.550	359.820	2928.22	20.80	-28.31	-19.00	1718059.23	14276553.21	39°18'52.100"N	80°43'31.758"W	34.10	213.861	1.20	1.20	-0.95	
3030.00	2.250	358.860	3023.17	17.80	-25.17	-19.04	1718059.19	14276556.35	39°18'52.131"N	80°43'31.758"W	31.56	217.111	0.74	0.74	-1.01	
3125.00	3.590	3.300	3118.05	13.26	-20.33	-18.91	1718059.32	14276561.19	39°18'52.179"N	80°43'31.756"W	27.76	222.919	1.43	1.41	4.67	
3220.00	5.010	7.910	3212.78	6.79	-13.25	-18.16	1718060.06	14276568.26	39°18'52.249"N	80°43'31.747"W	22.48	233.884	1.54	1.49	4.85	
3315.00	5.410	22.550	3307.39	-0.30	-5.01	-15.88	1718062.35	14276576.50	39°18'52.330"N	80°43'31.717"W	16.65	252.492	1.46	0.42	15.41	
3409.00	6.080	47.460	3400.93	-5.67	2.45	-10.51	1718067.72	14276583.96	39°18'52.404"N	80°43'31.649"W	10.79	283.134	2.72	0.71	26.50	
3504.00	7.600	48.660	3495.25	-10.15	10.00	-2.08	1718076.14	14276591.51	39°18'52.478"N	80°43'31.541"W	10.22	348.238	1.61	1.60	1.26	
3599.00	9.270	35.260	3589.23	-17.10	20.40	7.05	1718085.27	14276601.90	39°18'52.580"N	80°43'31.424"W	21.59	19.069	2.70	1.76	-14.11	
3694.00	11.110	30.650	3682.73	-27.60	34.53	16.14	1718094.35	14276616.02	39°18'52.720"N	80°43'31.308"W	38.11	25.060	2.12	1.94	-4.85	
3789.00	12.560	29.330	3775.71	-40.51	51.41	25.86	1718104.07	14276632.90	39°18'52.886"N	80°43'31.184"W	57.55	26.707	1.55	1.53	-1.39	
3884.00	13.960	33.580	3868.17	-54.47	69.96	37.26	1718115.47	14276651.44	39°18'53.069"N	80°43'31.038"W	79.26	28.040	1.79	1.47	4.47	
3979.00	14.990	40.470	3960.16	-67.83	88.85	51.58	1718129.78	14276670.33	39°18'53.256"N	80°43'30.855"W	102.74	30.133	2.11	1.08	7.29	
4073.00	15.580	44.580	4050.84	-79.79	107.10	68.33	1718146.52	14276688.56	39°18'53.435"N	80°43'30.642"W	127.03	32.538	1.31	0.63	4.37	
4168.00	14.770	45.170	4142.53	-90.92	124.72	85.87	1718164.06	14276706.18	39°18'53.609"N	80°43'30.418"W	151.42	34.548	0.87	-0.85	0.62	
4263.00	13.940	44.350	4234.56	-101.50	141.44	102.46	1718180.64	14276722.89	39°18'53.774"N	80°43'30.206"W	174.65	35.919	0.90	-0.87	-0.86	
4358.00	13.550	43.510	4326.84	-111.92	157.69	118.12	1718196.29	14276739.14	39°18'53.934"N	80°43'30.006"W	197.03	36.835	0.46	-0.41	-0.88	
4453.00	14.460	43.470	4419.02	-122.70	174.37	133.94	1718212.11	14276755.81	39°18'54.098"N	80°43'29.804"W	219.88	37.529	0.96	0.96	-0.04	
4548.00	14.630	41.880	4510.97	-134.19	191.91	150.11	1718228.27	14276773.35	39°18'54.271"N	80°43'29.598"W	243.65	38.032	0.46	0.18	-1.67	
4642.00	14.880	41.930	4601.87	-145.99	209.73	166.10	1718244.25	14276791.16	39°18'54.447"N	80°43'29.394"W	267.54	38.378	0.27	0.27	0.05	
4737.00	16.870	41.660	4693.24	-158.85	229.11	183.42	1718261.56	14276810.53	39°18'54.638"N	80°43'29.173"W	293.48	38.680	2.10	2.08	-0.28	
4832.00	17.150	35.510	4784.10	-173.92	250.81	200.72	1718278.86	14276832.22	39°18'54.852"N	80°43'28.952"W	321.23	38.669	1.92	0.29	-6.47	
4927.00	16.510	38.850	4875.03	-189.42	272.72	217.32	1718295.45	14276854.13	39°18'55.068"N	80°43'28.740"W	348.72	38.549	1.22	-0.67	3.52	



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Field	Doddridge		
Facility	Deets Pad		

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MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
5021.00	16.810	45.540	4965.09	-202.56	292.65	235.40	1718313.53	14276874.04	39°18'55.264"N	80°43'28.509"W	375.57	38.813	2.06	0.32	7.12	
5116.00	16.210	42.600	5056.17	-214.96	312.03	254.18	1718332.30	14276893.42	39°18'55.455"N	80°43'28.269"W	402.46	39.166	1.08	-0.63	-3.09	
5211.00	13.760	37.300	5147.94	-227.70	330.78	270.01	1718348.12	14276912.16	39°18'55.640"N	80°43'28.067"W	426.99	39.224	2.95	-2.58	-5.58	
5306.00	13.720	40.200	5240.22	-239.89	348.37	284.12	1718362.23	14276929.75	39°18'55.814"N	80°43'27.887"W	449.55	39.200	0.73	-0.04	3.05	
5401.00	16.030	46.260	5332.04	-251.32	366.05	300.88	1718378.98	14276947.42	39°18'55.988"N	80°43'27.673"W	473.84	39.418	2.93	2.43	6.38	
5496.00	16.110	45.300	5423.33	-262.71	384.39	319.72	1718397.82	14276965.75	39°18'56.169"N	80°43'27.432"W	499.98	39.752	0.29	0.08	-1.01	
5591.00	14.900	40.430	5514.87	-274.81	402.96	337.01	1718415.10	14276984.31	39°18'56.352"N	80°43'27.212"W	525.31	39.907	1.87	-1.27	-5.13	
5686.00	14.020	35.130	5606.87	-287.92	421.67	351.56	1718429.64	14277003.01	39°18'56.536"N	80°43'27.026"W	549.00	39.819	1.67	-0.93	-5.58	
5780.00	13.910	38.750	5698.09	-300.77	439.80	365.18	1718443.26	14277021.33	39°18'56.715"N	80°43'26.852"W	571.64	39.704	0.94	-0.12	3.85	
5875.00	14.360	44.650	5790.22	-312.25	457.08	380.61	1718458.68	14277038.41	39°18'56.895"N	80°43'26.655"W	594.80	39.784	1.59	0.47	6.21	
5970.00	15.860	51.150	5881.94	-322.07	473.61	399.00	1718477.06	14277054.93	39°18'57.048"N	80°43'26.420"W	619.28	40.113	2.38	1.58	6.84	
6065.00	15.600	44.660	5973.39	-332.33	490.84	418.09	1718496.14	14277072.15	39°18'57.218"N	80°43'26.177"W	644.76	40.424	1.87	-0.27	-6.83	
6160.00	15.080	35.890	6065.01	-345.28	509.94	434.31	1718512.36	14277091.25	39°18'57.406"N	80°43'25.969"W	669.83	40.421	2.50	-0.55	-9.23	
6255.00	17.230	36.160	6156.26	-360.59	531.31	449.86	1718527.90	14277112.61	39°18'57.617"N	80°43'25.771"W	696.18	40.255	2.26	2.26	0.28	
6350.00	18.150	38.140	6246.77	-376.85	554.31	467.30	1718545.34	14277135.60	39°18'57.844"N	80°43'25.548"W	725.00	40.132	1.16	0.97	2.08	
6445.00	17.800	40.970	6337.13	-392.34	576.91	485.96	1718563.99	14277158.19	39°18'58.066"N	80°43'25.310"W	754.31	40.109	0.99	-0.37	2.98	
6478.00	16.910	45.900	6368.63	-396.37	584.06	492.72	1718570.74	14277165.34	39°18'58.137"N	80°43'25.224"W	764.13	40.151	5.21	-2.70	14.94	BH AT Curve <-8-1/2">(6445-22788)
6572.00	16.630	74.810	6458.79	-402.09	597.12	515.55	1718593.57	14277178.40	39°18'58.265"N	80°43'24.932"W	788.89	40.807	8.79	-0.30	30.76	
6619.00	16.890	92.140	6503.82	-399.28	598.63	528.88	1718606.89	14277179.90	39°18'58.280"N	80°43'24.763"W	798.79	41.460	10.61	0.55	36.87	
6667.00	17.420	108.530	6549.71	-392.48	596.08	542.66	1718620.67	14277177.36	39°18'58.254"N	80°43'24.588"W	806.10	42.314	10.10	1.10	34.15	
6714.00	18.280	119.710	6594.46	-382.73	590.19	555.74	1718633.74	14277171.47	39°18'58.196"N	80°43'24.421"W	810.66	43.278	7.51	1.83	23.79	
6762.00	19.460	126.610	6639.89	-370.55	581.69	568.70	1718646.70	14277162.97	39°18'58.111"N	80°43'24.257"W	813.50	44.353	5.25	2.46	14.38	
6809.00	21.060	134.280	6683.99	-356.61	571.13	581.03	1718659.02	14277152.41	39°18'58.006"N	80°43'24.100"W	814.73	45.493	6.59	3.40	16.32	
6856.00	22.850	143.920	6727.59	-340.39	557.85	592.46	1718670.44	14277139.14	39°18'57.875"N	80°43'23.955"W	813.76	46.723	8.55	3.81	20.51	
6904.00	27.300	149.010	6771.06	-320.74	540.87	603.62	1718681.60	14277122.17	39°18'57.707"N	80°43'23.814"W	810.49	48.138	10.29	9.27	10.60	
6951.00	31.180	151.550	6812.06	-298.22	520.93	614.97	1718692.95	14277102.23	39°18'57.509"N	80°43'23.670"W	805.95	49.733	8.67	8.26	5.40	
6998.00	35.680	152.910	6851.28	-272.67	498.01	627.02	1718704.99	14277079.33	39°18'57.282"N	80°43'23.518"W	800.73	51.541	9.71	9.57	2.89	
7010.00†	36.636	153.209	6860.97	-265.66	491.70	630.22	1718708.19	14277073.02	39°18'57.220"N	80°43'23.478"W	799.34	52.039	8.10	7.97	2.48	Middlesex: 7010' MD
7046.00	39.510	154.030	6889.31	-243.67	471.81	640.08	1718718.05	14277053.14	39°18'57.023"N	80°43'23.353"W	795.18	53.606	8.10	7.98	2.28	
7093.00	43.670	154.920	6924.45	-212.71	443.66	653.51	1718731.47	14277025.00	39°18'56.744"N	80°43'23.183"W	789.88	55.828	8.94	8.85	1.88	



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Mondeo Unit 3H
Field	Doddridge	Wellbore	Mondeo Unit 3H AWB
Facility	Deets Pad		

## WELLPATH DATA (265 stations) † = interpolated/extrapolated station

MD	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
7141.00	48.730	155.610	6957.66	-178.28	412.20	668.00	1718745.95	14276993.55	39°18'56.433"N	80°43'23.000"W	784.94	58.322	10.59	10.54	1.44	
7188.00	52.540	156.480	6987.47	-142.11	379.00	682.74	1718760.89	14276960.36	39°18'56.104"N	80°43'22.814"W	780.88	60.965	8.23	8.11	1.85	
7224.00†	55.861	157.468	7008.52	-113.00	352.13	694.15	1718772.10	14276933.51	39°18'55.838"N	80°43'22.870"W	778.36	63.102	9.49	9.23	2.74	Burkett: 7224' MD
7236.00	56.970	157.780	7015.16	-103.03	342.89	697.96	1718775.90	14276924.26	39°18'55.747"N	80°43'22.622"W	777.64	63.837	9.49	9.24	2.60	
7279.00†	60.007	159.358	7037.63	-66.42	308.76	711.34	1718789.28	14276890.15	39°18'55.409"N	80°43'22.453"W	775.46	66.536	7.72	7.06	3.67	Tully: 7279' MD
7283.00	60.290	159.500	7039.63	-62.95	305.52	712.56	1718790.50	14276886.91	39°18'55.377"N	80°43'22.437"W	775.30	66.792	7.72	7.09	3.54	
7331.00	63.160	160.350	7062.36	-20.70	265.82	727.07	1718805.00	14276847.22	39°18'54.984"N	80°43'22.254"W	774.13	69.918	6.18	5.98	1.77	
7378.00	67.760	160.840	7081.88	22.04	225.50	741.27	1718819.19	14276806.92	39°18'54.585"N	80°43'22.075"W	774.81	73.080	9.83	9.79	1.04	
7425.00	71.200	162.450	7098.35	66.05	183.73	755.12	1718833.04	14276765.16	39°18'54.172"N	80°43'21.901"W	777.15	76.325	7.99	7.32	3.43	
7447.00†	71.897	162.925	7105.31	86.91	163.80	761.33	1718839.25	14276745.25	39°18'53.975"N	80°43'21.822"W	778.75	77.858	3.77	3.17	2.16	Marcellus POE: 7447' MD
7472.00	72.690	163.460	7112.92	110.71	141.01	768.21	1718846.13	14276722.46	39°18'53.750"N	80°43'21.736"W	781.05	79.599	3.77	3.17	2.14	
7520.00	76.900	164.890	7125.50	156.97	96.45	780.84	1718858.75	14276677.92	39°18'53.309"N	80°43'21.577"W	786.77	82.958	9.23	8.77	2.98	
7567.00	80.040	164.880	7134.90	202.94	52.02	792.92	1718870.83	14276633.51	39°18'52.869"N	80°43'21.425"W	794.63	86.247	6.70	6.68	-0.45	
7615.00	81.910	162.340	7142.43	250.31	6.57	806.38	1718884.28	14276588.08	39°18'52.420"N	80°43'21.255"W	806.40	89.533	6.19	3.90	-4.87	
7662.00	85.870	160.530	7147.43	297.03	-37.72	821.26	1718899.15	14276543.80	39°18'51.981"N	80°43'21.068"W	822.12	92.630	9.25	8.43	-3.85	
7710.00	90.250	160.990	7149.05	344.99	-83.00	837.06	1718914.95	14276498.54	39°18'51.533"N	80°43'20.868"W	841.16	95.663	9.18	9.12	0.96	
7805.00	90.310	161.410	7148.59	439.98	-172.93	867.67	1718945.55	14276408.65	39°18'50.644"N	80°43'20.482"W	884.74	101.272	0.45	0.06	0.44	
7899.00	90.340	160.630	7148.06	533.98	-261.82	898.25	1718976.11	14276319.79	39°18'49.764"N	80°43'20.097"W	935.63	106.250	0.83	0.03	-0.83	
7994.00	90.310	160.310	7147.52	628.96	-351.35	930.00	1719007.86	14276230.30	39°18'48.878"N	80°43'19.696"W	994.16	110.696	0.34	-0.03	-0.34	
8089.00	90.310	160.510	7147.00	723.95	-440.85	961.86	1719039.70	14276140.83	39°18'47.993"N	80°43'19.295"W	1058.07	114.624	0.21	0.00	0.21	
8184.00	90.430	159.940	7146.39	818.92	-530.25	994.00	1719071.82	14276051.47	39°18'47.108"N	80°43'18.889"W	1126.58	118.078	0.61	0.13	-0.60	
8279.00	90.370	160.420	7145.73	913.90	-619.62	1026.21	1719104.02	14275962.14	39°18'46.224"N	80°43'18.483"W	1198.76	121.123	0.51	-0.06	0.51	
8374.00	90.400	159.700	7145.09	1008.86	-708.92	1058.60	1719136.41	14275872.87	39°18'45.340"N	80°43'18.074"W	1274.05	123.809	0.76	0.03	-0.76	
8469.00	90.430	159.700	7144.40	1103.82	-798.02	1091.56	1719169.35	14275783.81	39°18'44.459"N	80°43'17.658"W	1352.16	126.170	0.03	0.03	0.00	
8564.00	90.520	158.900	7143.61	1198.75	-886.88	1125.14	1719202.92	14275694.98	39°18'43.579"N	80°43'17.235"W	1432.65	128.247	0.85	0.09	-0.84	
8658.00	90.340	159.780	7142.91	1292.68	-974.83	1158.30	1719236.07	14275607.06	39°18'42.709"N	80°43'16.816"W	1513.92	130.084	0.96	-0.19	0.94	
8753.00	90.220	162.310	7142.44	1387.67	-1064.67	1189.16	1719266.91	14275517.26	39°18'41.820"N	80°43'16.427"W	1596.13	131.839	2.67	-0.13	2.66	
8848.00	90.430	164.110	7141.90	1482.62	-1155.62	1216.60	1719294.34	14275426.35	39°18'40.921"N	80°43'16.082"W	1677.97	133.527	1.91	0.22	1.89	
8943.00	90.580	163.440	7141.07	1577.54	-1246.83	1243.14	1719320.87	14275335.17	39°18'40.018"N	80°43'15.747"W	1760.68	135.085	0.72	0.16	-0.71	
9038.00	90.520	161.750	7140.15	1672.51	-1337.47	1271.56	1719349.28	14275244.57	39°18'39.121"N	80°43'15.390"W	1845.45	136.447	1.78	-0.06	-1.78	



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #03
ANTERO RESOURCES CORPORATION	Well	Mondeo Unit 3H
Area	Wellbore	Mondeo Unit 3H AWB
Field		
Facility		

## WELLPATH DATA (265 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
9133.00	90.460	161.440	7139.34	1767.51	-1427.61	1301.55	1719379.26	14275154.46	39°18'38.230"N	80°43'15.012"W	1931.87	137.645	0.33	-0.06	-0.33	
9228.00	90.090	160.080	7138.89	1862.49	-1517.30	1332.86	1719410.55	14275064.81	39°18'37.342"N	80°43'14.617"W	2019.58	138.703	1.48	-0.39	-1.43	
9322.00	90.620	161.350	7138.30	1956.48	-1606.02	1363.90	1719441.58	14274976.12	39°18'36.464"N	80°43'14.225"W	2107.02	139.661	1.46	0.56	1.35	
9417.00	90.220	160.950	7137.61	2051.48	-1695.92	1394.59	1719472.26	14274886.26	39°18'35.575"N	80°43'13.838"W	2195.69	140.569	0.60	-0.42	-0.42	
9512.00	89.940	161.140	7137.47	2146.48	-1785.77	1425.45	1719503.11	14274796.44	39°18'34.686"N	80°43'13.449"W	2284.93	141.402	0.36	-0.29	0.20	
9607.00	90.430	162.420	7137.17	2241.47	-1876.01	1455.15	1719532.80	14274706.24	39°18'33.793"N	80°43'13.075"W	2374.21	142.201	1.44	0.52	1.35	
9702.00	90.370	161.780	7136.50	2336.46	-1966.41	1484.35	1719561.98	14274615.88	39°18'32.899"N	80°43'12.707"W	2463.75	142.952	0.68	-0.06	-0.67	
9797.00	90.220	162.180	7136.02	2431.46	-2056.74	1513.74	1719591.36	14274525.58	39°18'32.005"N	80°43'12.337"W	2553.74	143.647	0.45	-0.16	0.42	
9891.00	90.370	164.450	7135.53	2525.40	-2146.78	1540.72	1719618.34	14274435.58	39°18'31.114"N	80°43'11.997"W	2642.44	144.333	2.42	0.16	2.41	
9986.00	90.490	165.380	7134.82	2620.22	-2238.50	1565.45	1719643.05	14274343.89	39°18'30.207"N	80°43'11.686"W	2731.58	145.034	0.99	0.13	0.98	
10081.00	90.490	164.600	7134.01	2715.04	-2330.26	1590.05	1719667.64	14274252.17	39°18'29.299"N	80°43'11.377"W	2821.06	145.692	0.82	0.00	-0.82	
10176.00	90.520	163.870	7133.17	2809.92	-2421.68	1615.86	1719693.44	14274160.79	39°18'28.395"N	80°43'11.062"W	2911.28	146.287	0.77	0.03	-0.77	
10271.00	90.580	164.240	7132.26	2904.82	-2513.02	1641.96	1719719.53	14274069.48	39°18'27.491"N	80°43'10.724"W	3001.88	146.840	0.39	0.06	0.39	
10366.00	89.850	163.100	7131.90	2999.74	-2604.18	1668.67	1719746.23	14273978.35	39°18'26.590"N	80°43'10.387"W	3092.93	147.350	1.42	-0.77	-1.20	
10460.00	90.520	164.770	7131.60	3093.65	-2694.51	1694.68	1719772.23	14273888.07	39°18'25.696"N	80°43'10.060"W	3183.13	147.833	1.91	0.71	1.78	
10555.00	90.490	164.630	7130.76	3188.49	-2786.14	1719.74	1719797.29	14273796.47	39°18'24.790"N	80°43'09.745"W	3274.15	148.315	0.15	-0.03	-0.15	
10650.00	90.580	165.310	7129.87	3283.31	-2877.88	1744.38	1719821.91	14273704.76	39°18'23.882"N	80°43'09.435"W	3365.27	148.779	0.72	0.09	0.72	
10745.00	91.260	163.970	7128.35	3378.15	-2969.48	1769.54	1719847.06	14273613.21	39°18'22.976"N	80°43'09.119"W	3456.74	149.209	1.58	0.72	-1.41	
10840.00	90.030	159.610	7127.28	3473.12	-3059.69	1799.22	1719876.73	14273523.03	39°18'22.084"N	80°43'08.745"W	3549.49	149.543	4.77	-1.29	-4.59	
10934.00	90.710	159.600	7126.67	3567.06	-3147.79	1831.97	1719909.47	14273434.96	39°18'21.212"N	80°43'08.331"W	3642.08	149.801	0.72	0.72	-0.01	
11029.00	90.340	157.080	7125.80	3661.91	-3236.08	1867.03	1719944.52	14273346.71	39°18'20.338"N	80°43'07.889"W	3736.04	150.017	2.68	-0.39	-2.65	
11124.00	90.250	156.650	7125.31	3756.54	-3323.10	1905.12	1719982.59	14273259.72	39°18'19.477"N	80°43'07.408"W	3830.47	150.175	1.51	-0.09	-1.51	
11219.00	90.250	156.120	7124.90	3851.09	-3409.81	1943.93	1720021.39	14273173.05	39°18'18.619"N	80°43'06.917"W	3925.01	150.313	0.49	0.00	0.49	
11314.00	90.460	159.460	7124.31	3945.88	-3497.75	1979.84	1720057.28	14273085.14	39°18'17.748"N	80°43'06.464"W	4019.20	150.489	3.52	0.22	3.52	
11408.00	90.950	161.180	7123.15	4039.85	-3586.25	2011.49	1720088.92	14272996.68	39°18'16.873"N	80°43'06.065"W	4111.84	150.712	1.90	0.52	1.83	
11503.00	90.400	159.090	7122.03	4134.81	-3675.58	2043.77	1720121.18	14272907.38	39°18'15.989"N	80°43'05.668"W	4205.58	150.924	2.27	-0.58	-2.20	
11598.00	90.460	159.340	7121.32	4229.74	-3764.40	2077.48	1720154.88	14272818.60	39°18'15.110"N	80°43'05.233"W	4299.61	151.107	0.27	0.06	0.26	
11693.00	90.430	159.880	7120.58	4324.68	-3853.44	2110.58	1720187.96	14272729.59	39°18'14.229"N	80°43'04.815"W	4393.58	151.290	0.57	-0.03	0.57	
11788.00	90.280	160.370	7119.99	4419.66	-3942.78	2142.87	1720220.25	14272640.29	39°18'13.345"N	80°43'04.408"W	4487.47	151.476	0.54	-0.16	0.52	
11883.00	90.460	160.330	7119.38	4514.64	-4032.25	2174.82	1720252.18	14272550.86	39°18'12.460"N	80°43'04.005"W	4581.36	151.660	0.19	0.19	-0.04	



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Mondeo Unit 3H
Area	Doddridge Co., WV	Wellbore	Mondeo Unit 3H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (265 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (IUS ft)	Grid North (IUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
11977.00	90.310	160.540	7118.75	4608.62	-4120.82	2206.30	1720283.64	14272462.32	39°18'11.583"N	80°43'03.608"W	4674.28	151.835	0.27	-0.16	0.22	
12072.00	90.520	160.820	7118.06	4703.61	-4210.47	2237.72	1720315.06	14272372.71	39°18'10.696"N	80°43'03.212"W	4768.17	152.011	0.37	0.22	0.29	
12167.00	90.340	160.800	7117.35	4798.60	-4300.18	2268.95	1720346.27	14272283.03	39°18'09.808"N	80°43'02.818"W	4862.07	152.182	0.19	-0.19	-0.02	
12262.00	90.340	161.430	7116.78	4893.60	-4390.07	2299.70	1720377.01	14272193.18	39°18'08.919"N	80°43'02.431"W	4955.94	152.353	0.66	0.00	0.66	
12357.00	90.400	161.770	7116.17	4988.59	-4480.21	2329.68	1720406.98	14272103.07	39°18'08.027"N	80°43'02.053"W	5049.72	152.526	0.36	0.06	0.36	
12452.00	90.370	162.760	7115.53	5083.58	-4570.69	2358.62	1720435.91	14272012.62	39°18'07.132"N	80°43'01.688"W	5143.38	152.705	1.04	-0.03	1.04	
12547.00	90.370	164.160	7114.92	5178.52	-4661.76	2385.67	1720462.94	14271921.60	39°18'06.231"N	80°43'01.348"W	5236.73	152.899	1.47	0.00	1.47	
12642.00	90.220	165.070	7114.43	5273.37	-4753.35	2410.87	1720488.14	14271830.04	39°18'05.325"N	80°43'01.031"W	5329.79	153.106	0.97	-0.16	0.96	
12831.00	90.550	166.780	7113.16	5461.78	-4936.66	2456.83	1720534.08	14271646.80	39°18'03.512"N	80°43'00.454"W	5514.22	153.542	0.92	0.17	0.90	
12926.00	90.580	166.090	7112.22	5556.42	-5029.01	2479.11	1720556.35	14271554.49	39°18'02.599"N	80°43'00.174"W	5606.86	153.758	0.73	0.03	-0.73	
13021.00	90.310	164.760	7111.48	5651.18	-5120.95	2503.02	1720580.25	14271462.59	39°18'01.689"N	80°42'59.873"W	5699.93	153.952	1.43	-0.28	-1.40	
13115.00	90.370	162.750	7110.92	5745.10	-5211.19	2529.31	1720606.53	14271372.38	39°18'00.796"N	80°42'59.543"W	5792.57	154.110	2.14	0.06	-2.14	
13210.00	90.250	161.560	7110.41	5840.09	-5301.61	2558.42	1720635.63	14271281.99	39°17'59.902"N	80°42'59.176"W	5886.65	154.239	1.26	-0.13	-1.29	
13305.00	90.740	161.770	7109.59	5935.09	-5391.79	2588.30	1720665.50	14271191.85	39°17'59.010"N	80°42'58.799"W	5980.86	154.357	0.56	0.52	0.22	
13400.00	90.400	159.850	7108.64	6030.07	-5481.50	2619.53	1720696.71	14271102.18	39°17'58.122"N	80°42'58.406"W	6075.26	154.458	2.05	-0.36	-2.02	
13495.00	90.520	157.540	7107.88	6124.95	-5570.00	2654.04	1720731.21	14271013.71	39°17'57.246"N	80°42'57.970"W	6169.99	154.523	2.43	0.13	-2.43	
13590.00	90.250	156.370	7107.24	6219.66	-5657.41	2691.23	1720768.38	14270926.33	39°17'56.381"N	80°42'57.501"W	6264.91	154.560	1.26	-0.28	-1.23	
13684.00	90.280	156.520	7106.81	6313.30	-5743.58	2728.79	1720805.93	14270840.20	39°17'55.528"N	80°42'57.026"W	6358.85	154.587	0.16	0.03	0.16	
13779.00	90.460	157.800	7106.19	6408.03	-5831.13	2765.67	1720842.79	14270752.69	39°17'54.662"N	80°42'56.561"W	6453.76	154.625	1.36	0.19	1.35	
13874.00	90.980	159.040	7105.00	6502.88	-5919.46	2800.60	1720877.72	14270664.39	39°17'53.788"N	80°42'56.120"W	6548.54	154.680	1.42	0.55	1.31	
13969.00	90.740	159.680	7103.58	6597.81	-6008.35	2834.09	1720911.19	14270575.53	39°17'52.908"N	80°42'55.698"W	6643.22	154.747	0.72	-0.25	0.67	
14064.00	90.770	160.750	7102.32	6692.78	-6097.74	2866.24	1720943.33	14270486.18	39°17'52.024"N	80°42'55.292"W	6737.78	154.824	1.13	0.03	1.13	
14159.00	90.710	160.470	7101.10	6787.76	-6187.34	2897.78	1720974.85	14270396.62	39°17'51.137"N	80°42'54.895"W	6832.30	154.904	0.30	-0.06	-0.29	
14254.00	90.460	160.350	7100.13	6882.74	-6276.84	2929.63	1721006.69	14270307.15	39°17'50.251"N	80°42'54.493"W	6926.86	154.980	0.29	-0.26	-0.13	
14348.00	89.940	157.970	7099.80	6976.66	-6364.68	2963.07	1721040.12	14270219.35	39°17'49.382"N	80°42'54.071"W	7020.61	155.036	2.59	-0.55	-2.53	
14443.00	90.710	159.260	7099.26	7071.54	-6453.13	2997.70	1721074.74	14270130.93	39°17'48.507"N	80°42'53.634"W	7115.42	155.083	1.58	0.81	1.36	
14538.00	90.310	159.870	7098.41	7166.48	-6542.15	3030.87	1721107.89	14270041.94	39°17'47.626"N	80°42'53.216"W	7210.13	155.142	0.77	-0.42	0.64	
14633.00	90.430	161.270	7097.80	7261.47	-6631.74	3062.47	1721139.48	14269952.39	39°17'46.740"N	80°42'52.818"W	7304.70	155.213	1.48	0.13	1.47	
14728.00	90.310	162.500	7097.19	7356.46	-6722.02	3092.01	1721169.01	14269862.14	39°17'45.846"N	80°42'52.445"W	7399.06	155.298	1.30	-0.13	1.29	
14822.00	90.430	164.650	7096.58	7450.39	-6812.18	3118.59	1721195.57	14269772.02	39°17'44.954"N	80°42'52.111"W	7492.09	155.402	2.29	0.13	2.29	

# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #03
Operator	ANTERO RESOURCES CORPORATION	Well	Mondeo Unit 3H
Area	Doddridge Co., WV	Wellbore	Mondeo Unit 3H AWB
Field	Doddridge		
Facility	Deets Pad		

WELLPATH DATA (265 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 (P/100ft)	Build Rate (P/100ft)	Turn Rate (P/100ft)	Comments
14917.00	90.180	165.470	7096.07	7545.20	-6903.97	3143.08	1721220.06	14269680.27	39°17'44.046"N	80°42'51.803"W	7585.76	155.522	0.90	-0.26	0.86	
15012.00	90.400	165.870	7095.59	7639.94	-6996.01	3166.59	1721243.56	14269588.26	39°17'43.136"N	80°42'51.508"W	7679.29	155.647	0.48	0.23	0.42	
15107.00	90.430	166.540	7094.91	7734.61	-7088.27	3189.24	1721266.20	14269496.04	39°17'42.223"N	80°42'51.223"W	7772.70	155.775	0.71	0.03	0.71	
15202.00	90.620	166.140	7094.03	7829.26	-7180.58	3211.68	1721288.63	14269403.77	39°17'41.310"N	80°42'50.942"W	7866.10	155.902	0.47	0.20	-0.42	
15297.00	90.580	164.460	7093.04	7924.03	-7272.46	3235.78	1721312.72	14269311.93	39°17'40.402"N	80°42'50.639"W	7959.83	156.014	1.77	-0.04	-1.77	
15391.00	90.860	162.030	7091.86	8017.97	-7362.45	3262.88	1721339.81	14269221.97	39°17'39.511"N	80°42'50.298"W	8053.08	156.098	2.60	0.30	-2.59	
15486.00	90.580	159.510	7090.66	8112.95	-7452.14	3294.16	1721371.08	14269132.32	39°17'38.624"N	80°42'49.904"W	8147.75	156.153	2.67	-0.29	-2.63	
15581.00	89.910	157.000	7090.26	8207.79	-7540.37	3329.35	1721406.26	14269044.12	39°17'37.751"N	80°42'49.459"W	8242.68	156.177	2.73	-0.71	-2.64	
15676.00	90.400	158.100	7089.00	8302.57	-7628.17	3365.63	1721442.52	14268956.36	39°17'36.882"N	80°42'49.002"W	8337.65	156.192	1.27	0.52	1.16	
15771.00	90.280	158.780	7089.44	8397.44	-7716.52	3400.54	1721477.42	14268868.04	39°17'36.007"N	80°42'48.561"W	8432.58	156.218	0.73	-0.13	0.72	
15866.00	89.910	157.150	7089.28	8492.26	-7804.58	3436.18	1721513.04	14268780.02	39°17'35.136"N	80°42'48.111"W	8527.53	156.237	1.76	-0.39	-1.72	
15961.00	90.400	157.780	7089.02	8587.03	-7892.32	3472.59	1721549.43	14268692.31	39°17'34.268"N	80°42'47.652"W	8622.51	156.251	0.84	0.52	0.66	
16055.00	90.370	157.780	7088.39	8680.83	-7979.34	3508.13	1721584.97	14268605.32	39°17'33.406"N	80°42'47.203"W	8716.47	156.267	0.03	-0.03	0.00	
16150.00	90.280	158.560	7087.85	8775.68	-8067.53	3543.46	1721620.28	14268517.17	39°17'32.534"N	80°42'46.757"W	8811.42	156.288	0.83	-0.09	0.82	
16245.00	90.280	160.160	7087.39	8870.61	-8156.42	3576.94	1721653.75	14268428.31	39°17'31.654"N	80°42'46.335"W	8906.28	156.320	1.68	0.00	1.68	
16340.00	90.150	161.950	7087.03	8965.60	-8246.27	3607.79	1721684.58	14268338.49	39°17'30.765"N	80°42'45.947"W	9000.95	156.370	1.89	-0.14	1.88	
16435.00	90.090	164.000	7086.83	9060.56	-8337.11	3635.60	1721712.38	14268247.70	39°17'29.866"N	80°42'45.596"W	9095.32	156.439	2.16	-0.06	2.16	
16530.00	90.370	165.790	7086.45	9155.39	-8428.82	3660.35	1721737.13	14268156.02	39°17'28.959"N	80°42'45.285"W	9189.30	156.526	1.91	0.29	1.88	
16624.00	90.340	166.280	7085.87	9249.08	-8520.04	3683.04	1721759.80	14268064.84	39°17'28.057"N	80°42'45.000"W	9282.02	156.622	0.52	-0.03	0.52	
16719.00	90.460	166.500	7085.21	9343.73	-8612.37	3705.39	1721782.15	14267972.54	39°17'27.144"N	80°42'44.720"W	9375.65	156.721	0.26	0.13	0.23	
16814.00	90.310	163.440	7084.57	9438.54	-8704.11	3730.02	1721806.77	14267880.84	39°17'26.236"N	80°42'44.410"W	9469.66	156.803	3.22	-0.16	-3.22	
16909.00	90.180	161.860	7084.16	9533.51	-8794.78	3758.35	1721835.09	14267790.21	39°17'25.339"N	80°42'44.054"W	9564.17	156.861	1.67	-0.14	-1.66	
17004.00	90.150	161.420	7083.89	9628.51	-8884.94	3788.28	1721865.00	14267700.08	39°17'24.447"N	80°42'43.677"W	9658.84	156.908	0.46	-0.03	-0.46	
17098.00	90.120	163.490	7083.67	9722.49	-8974.56	3816.61	1721893.32	14267610.49	39°17'23.560"N	80°42'43.320"W	9752.40	156.961	2.20	-0.03	2.20	
17193.00	89.600	163.100	7083.90	9817.44	-9065.55	3843.92	1721920.62	14267519.54	39°17'22.660"N	80°42'42.976"W	9846.83	157.022	0.68	-0.56	-0.41	
17288.00	90.120	165.010	7084.13	9912.34	-9156.89	3870.02	1721946.71	14267428.23	39°17'21.757"N	80°42'42.648"W	9941.11	157.089	2.08	0.55	2.01	
17383.00	90.220	166.700	7083.85	10007.05	-9249.01	3893.23	1721969.91	14267336.15	39°17'20.845"N	80°42'42.357"W	10035.01	157.172	1.78	0.11	1.78	
17478.00	90.340	164.550	7083.38	10101.79	-9341.03	3916.81	1721993.49	14267244.17	39°17'19.935"N	80°42'42.060"W	10128.98	157.251	2.27	0.13	-2.26	
17573.00	90.490	162.300	7082.70	10196.73	-9432.07	3943.91	1722020.57	14267153.16	39°17'19.034"N	80°42'41.719"W	10223.43	157.308	2.37	0.16	-2.37	
17668.00	90.770	160.100	7081.65	10291.72	-9521.99	3974.52	1722051.17	14267063.28	39°17'18.145"N	80°42'41.334"W	10318.20	157.344	2.33	0.29	-2.32	





# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Mondeo Unit 3H
Field	Doddridge	Wellbore	Mondeo Unit 3H AWB
Facility	Deets Pad		

## WELLPATH DATA (265 stations)

MD ft	Inclination °	Azimuth °	TVD ft	Vert Sect ft	North ft	East ft	Grid East ft	Grid North ft	Latitude	Longitude	Closure Dist ft	Closure Dir °	DLS ft/100ft	Build Rate ft/100ft	Turn Rate ft/100ft	Comments
17763.00	90.340	158.060	7080.73	10386.63	-9610.72	4008.44	1722085.08	14266974.58	39°17'17.267"N	80°42'40.906"W	10413.15	157.360	2.19	-0.45	-2.15	
17858.00	90.280	156.440	7080.22	10481.37	-9698.33	4045.18	1722121.80	14266887.01	39°17'16.400"N	80°42'40.442"W	10508.14	157.359	1.71	-0.06	-1.71	
17953.00	90.180	154.270	7079.84	10575.82	-9784.67	4084.79	1722161.39	14266800.71	39°17'15.545"N	80°42'39.942"W	10603.08	157.341	2.29	-0.11	-2.28	
18047.00	88.680	155.430	7080.77	10669.19	-9869.75	4124.73	1722201.32	14266715.66	39°17'14.703"N	80°42'39.438"W	10696.98	157.319	2.02	-1.60	1.23	
18142.00	90.400	161.290	7081.53	10764.00	-9958.01	4159.75	1722236.33	14266627.44	39°17'13.829"N	80°42'38.996"W	10791.92	157.328	6.43	1.81	6.17	
18237.00	90.250	163.240	7080.99	10858.99	-10048.49	4188.69	1722265.25	14266536.99	39°17'12.934"N	80°42'38.631"W	10886.56	157.371	2.06	-0.16	2.05	
18332.00	90.250	162.460	7080.58	10953.96	-10139.26	4216.70	1722293.25	14266446.25	39°17'12.036"N	80°42'38.279"W	10981.13	157.419	0.82	0.00	-0.82	
18427.00	90.280	162.750	7080.14	11048.94	-10229.92	4245.10	1722321.64	14266355.63	39°17'11.139"N	80°42'37.921"W	11075.74	157.463	0.31	0.03	0.31	
18522.00	90.280	163.560	7079.68	11143.89	-10320.84	4272.63	1722349.16	14266264.75	39°17'10.240"N	80°42'37.575"W	11170.28	157.511	0.85	0.00	0.85	
18616.00	90.310	162.970	7079.19	11237.85	-10410.86	4299.69	1722376.22	14266174.77	39°17'09.349"N	80°42'37.234"W	11263.80	157.559	0.63	0.03	-0.63	
18711.00	90.310	162.700	7078.68	11332.82	-10501.62	4327.73	1722404.24	14266084.04	39°17'08.451"N	80°42'36.882"W	11358.40	157.603	0.28	0.00	-0.28	
18806.00	90.430	161.410	7078.06	11427.81	-10592.00	4357.00	1722433.50	14265993.70	39°17'07.557"N	80°42'36.513"W	11453.12	157.640	1.36	0.13	-1.36	
18900.00	90.340	160.880	7077.43	11521.80	-10680.95	4387.38	1722463.86	14265904.78	39°17'06.677"N	80°42'36.130"W	11546.94	157.669	0.57	-0.10	-0.56	
18995.00	90.340	160.310	7076.87	11616.79	-10770.55	4418.94	1722495.41	14265815.21	39°17'05.790"N	80°42'35.733"W	11641.81	157.693	0.60	0.00	-0.60	
19090.00	90.280	159.140	7076.36	11711.74	-10859.66	4451.86	1722528.32	14265726.14	39°17'04.909"N	80°42'35.318"W	11736.75	157.709	1.23	-0.06	-1.23	
19185.00	90.120	159.610	7076.02	11806.68	-10948.57	4485.32	1722561.77	14265637.26	39°17'04.029"N	80°42'34.896"W	11831.71	157.722	0.52	-0.17	0.49	
19280.00	90.250	159.830	7075.72	11901.64	-11037.68	4518.25	1722594.68	14265548.19	39°17'03.147"N	80°42'34.480"W	11926.65	157.738	0.27	0.14	0.23	
19375.00	90.090	161.210	7075.44	11996.62	-11127.24	4549.93	1722626.35	14265458.66	39°17'02.261"N	80°42'34.081"W	12021.54	157.760	1.46	-0.17	1.45	
19470.00	90.280	162.680	7075.13	12091.62	-11217.56	4579.37	1722658.78	14265368.38	39°17'01.367"N	80°42'33.711"W	12116.28	157.793	1.56	0.20	1.55	
19564.00	90.490	163.850	7074.50	12185.56	-11307.58	4606.44	1722682.84	14265278.40	39°17'00.477"N	80°42'33.370"W	12209.86	157.835	1.26	0.22	1.24	
19659.00	90.490	164.790	7073.68	12280.44	-11399.04	4632.11	1722708.50	14265186.98	39°16'59.572"N	80°42'33.047"W	12304.25	157.885	0.99	0.00	0.99	
19754.00	90.400	163.620	7072.95	12375.33	-11490.45	4657.97	1722734.35	14265095.60	39°16'58.668"N	80°42'32.722"W	12398.67	157.933	1.24	-0.09	-1.23	
19849.00	90.400	162.380	7072.28	12470.29	-11581.29	4685.74	1722762.11	14265004.79	39°16'57.769"N	80°42'32.373"W	12493.30	157.972	1.31	0.00	-1.31	
19944.00	90.370	161.320	7071.65	12565.28	-11671.56	4715.33	1722791.69	14264914.56	39°16'56.876"N	80°42'32.000"W	12588.08	158.001	1.12	-0.03	-1.12	
20039.00	90.340	159.990	7071.06	12660.27	-11761.19	4746.80	1722823.15	14264824.96	39°16'55.989"N	80°42'31.603"W	12682.97	158.021	1.40	-0.03	-1.40	
20133.00	90.340	157.310	7070.50	12754.15	-11848.73	4781.02	1722857.35	14264737.46	39°16'55.122"N	80°42'31.172"W	12776.96	158.026	2.85	0.00	-2.85	
20228.00	90.460	155.880	7069.84	12848.80	-11935.91	4818.76	1722895.07	14264650.31	39°16'54.260"N	80°42'30.696"W	12871.92	158.015	1.51	0.13	-1.51	
20323.00	90.180	159.040	7069.30	12943.56	-12023.64	4855.17	1722931.47	14264562.62	39°16'53.391"N	80°42'30.236"W	12966.91	158.011	3.34	-0.29	3.33	
20418.00	90.060	161.530	7069.11	13038.53	-12113.07	4887.21	1722963.50	14264473.23	39°16'52.506"N	80°42'29.832"W	13061.82	158.028	2.62	-0.13	2.62	
20513.00	90.220	163.360	7068.87	13133.51	-12203.64	4915.86	1722992.14	14264382.69	39°16'51.610"N	80°42'29.472"W	13156.54	158.059	1.93	0.17	1.93	



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Deets Pad
Slot	Slot #03
Well	Mondeo Unit 3H
Wellbore	Mondeo Unit 3H AWB

WELLPATH DATA (265 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (JUS ft)	Grid North (JUS ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (1"/100ft)	Build Rate (1"/100ft)	Turn Rate (1"/100ft)	Comments
20608.00	90.090	161.850	7068.62	13228.49	-12294.29	4944.26	1723020.53	14264292.08	39°16'50.713"N	80°42'29.114"W	13251.24	158.092	1.60	-0.14	-1.59	
20703.00	90.060	162.160	7068.49	13323.48	-12384.64	4973.61	1723049.87	14264201.76	39°16'49.820"N	80°42'28.745"W	13346.02	158.120	0.33	-0.03	0.33	
20797.00	90.150	161.530	7068.32	13417.48	-12473.96	5002.90	1723079.15	14264112.47	39°16'48.936"N	80°42'28.376"W	13439.82	158.146	0.68	0.10	-0.67	
20892.00	90.120	160.930	7068.10	13512.48	-12563.91	5033.47	1723109.70	14264022.56	39°16'48.046"N	80°42'27.991"W	13534.68	158.188	0.63	-0.03	-0.63	
20987.00	90.150	161.260	7067.87	13607.48	-12653.79	5064.25	1723140.47	14263932.72	39°16'47.157"N	80°42'27.603"W	13629.56	158.188	0.35	0.03	0.35	
21082.00	90.220	161.890	7067.57	13702.48	-12743.92	5094.28	1723170.48	14263842.63	39°16'46.265"N	80°42'27.225"W	13724.40	158.211	0.67	0.07	0.66	
21177.00	90.180	161.490	7067.23	13797.47	-12834.10	5124.12	1723200.32	14263752.48	39°16'45.372"N	80°42'26.849"W	13819.22	158.235	0.42	-0.04	-0.42	
21271.00	90.280	162.010	7066.86	13891.47	-12923.38	5153.56	1723229.74	14263663.24	39°16'44.489"N	80°42'26.479"W	13913.04	158.259	0.56	0.11	0.55	
21366.00	90.250	161.970	7066.42	13986.47	-13013.72	5182.93	1723259.10	14263572.93	39°16'43.595"N	80°42'26.109"W	14007.84	158.284	0.05	-0.03	-0.04	
21461.00	90.310	163.920	7065.95	14081.43	-13104.54	5210.79	1723286.95	14263482.15	39°16'42.697"N	80°42'25.758"W	14102.53	158.316	2.05	0.06	2.05	
21556.00	90.460	165.350	7065.31	14176.28	-13196.14	5235.96	1723312.11	14263390.59	39°16'41.791"N	80°42'25.442"W	14196.95	158.358	1.51	0.16	1.51	
21650.00	90.370	167.710	7064.63	14269.90	-13287.54	5257.85	1723334.00	14263299.22	39°16'40.886"N	80°42'25.167"W	14289.99	158.411	2.51	-0.10	2.51	
21745.00	90.460	165.740	7063.95	14364.49	-13380.00	5279.67	1723355.80	14263206.80	39°16'39.972"N	80°42'24.894"W	14383.99	158.466	2.08	0.09	-2.07	
21840.00	90.490	162.640	7063.16	14459.37	-13471.39	5305.55	1723381.67	14263115.44	39°16'39.068"N	80°42'24.568"W	14478.51	158.504	3.26	0.03	-3.26	
21935.00	90.460	159.380	7062.37	14554.35	-13561.20	5336.45	1723412.57	14263025.66	39°16'38.179"N	80°42'24.179"W	14573.40	158.520	3.43	-0.03	-3.43	
22030.00	90.460	159.610	7061.61	14649.29	-13650.18	5369.73	1723445.83	14262936.72	39°16'37.299"N	80°42'23.760"W	14668.38	158.526	0.24	0.00	0.24	
22124.00	90.430	159.950	7060.88	14743.25	-13738.39	5402.22	1723478.30	14262848.55	39°16'36.426"N	80°42'23.350"W	14762.36	158.534	0.36	-0.03	0.36	
22219.00	90.370	160.750	7060.21	14838.22	-13827.85	5434.16	1723510.24	14262759.12	39°16'35.541"N	80°42'22.948"W	14857.31	158.546	0.84	-0.06	0.84	
22314.00	90.680	163.950	7059.34	14933.20	-13918.36	5462.96	1723539.02	14262668.65	39°16'34.645"N	80°42'22.585"W	14952.08	158.570	3.38	0.33	3.37	
22408.00	91.510	163.990	7057.55	15027.09	-14008.69	5488.91	1723564.97	14262578.35	39°16'33.751"N	80°42'22.259"W	15045.65	158.604	0.88	0.88	0.04	
22503.00	90.620	162.030	7055.78	15122.03	-14099.52	5516.67	1723592.71	14262487.56	39°16'32.853"N	80°42'21.910"W	15140.35	158.631	2.27	-0.94	-2.06	
22598.00	90.490	159.040	7054.86	15217.00	-14189.08	5548.32	1723624.35	14262398.04	39°16'31.967"N	80°42'21.511"W	15235.28	158.643	3.15	-0.14	-3.15	
22693.00	90.220	156.450	7054.27	15311.79	-14276.99	5584.30	1723660.31	14262310.16	39°16'31.097"N	80°42'21.057"W	15330.26	158.638	2.74	-0.28	-2.73	
22788.00	90.310	155.540	7053.83	15406.36	-14363.77	5622.94	1723698.94	14262223.41	39°16'30.238"N	80°42'20.569"W	15425.16	158.621	0.96	0.09	-0.96	
22829.00	90.310	155.540	7053.61	15447.14	-14401.09	5639.92	1723715.91	14262186.11	39°16'29.868"N	80°42'20.355"W	15466.10	158.613	0.00	0.00	0.00	Projected MD at TD: 22829'



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #03
ANTERO RESOURCES CORPORATION	Well	Mondeo Unit 3H
Area	Wellbore	Mondeo Unit 3H AWB
Field		
Facility		

## HOLE & CASING SECTIONS - Ref Wellbore: Mondeo Unit 3H AWB Ref Wellpath: Mondeo Unit 3H AWP Proj: 22829'

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	25.50	105.50	80.00	25.50	105.49	0.00	0.00	-0.40	0.69
17.5in Open Hole	105.50	403.00	297.50	105.49	402.98	-0.40	0.69	-2.86	2.41
13.375in Casing Surface	25.50	388.10	362.60	25.50	388.08	0.00	0.00	-2.68	2.37
12.25in Open Hole	403.00	2606.00	2203.00	402.98	2599.84	-2.86	2.41	-16.58	-12.97
9.625in Casing Intermediate	25.50	2589.20	2563.70	25.50	2583.13	0.00	0.00	-15.21	-11.91
8.75in Open Hole	2606.00	6522.00	3916.00	2599.84	6410.81	-16.58	-12.97	591.67	502.62
8.5in Open Hole	6522.00	22829.00	16307.00	6410.81	7053.61	591.67	502.62	-14401.09	5639.92
5.5in Casing Production	25.50	22829.00	22803.50	25.50	7053.61	0.00	0.00	-14401.09	5639.92

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mondeo Unit 3H - POE - Rev-2	7100.00	145.68	758.98	1718836.90	14276727.13	39°18'53.796"N	80°43'21.853"W	point
Mondeo Unit 3H - BHL - Rev-2	7144.00	-14427.21	5648.01	1723724.00	14262160.00	39°16'29.610"N	80°42'20.253"W	point
Mondeo Unit 3H - LP - Rev-2	7144.00	-105.33	843.19	1718921.07	14276476.22	39°18'51.313"N	80°43'20.791"W	point



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #03
Area	Doddridge Co., WV	Mondeo Unit 3H
Field	Doddridge	Mondeo Unit 3H AWB
Facility	Deets Pad	

WELLPATH COMPOSITION - Ref Wellbore: Mondeo Unit 3H AWB			Ref Wellpath: Mondeo Unit 3H AWP Proj: 22829'	
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.50	300.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2"> (100'-300')	Mondeo Unit 3H AWB
300.00	2540.00	BHI NaviTrak (Axial)	02 APS EM <12-1/4"> (300')(427'-2540')	Mondeo Unit 3H AWB
2540.00	6445.00	BHI NaviTrak (Axial)	03 APS EM <8-3/4"> (2540')(2651'-6445')	Mondeo Unit 3H AWB
6445.00	22788.00	BHI Auto Trak Curve (Short)	04 BH AT Curve <8-1/2"> (6445')(6478'-22788')	Mondeo Unit 3H AWB
22788.00	22829.00	Blind Drilling (std)	Projection to bit	Mondeo Unit 3H AWB



# Actual Wellpath Report

Mondeo Unit 3H AWP Proj: 22829'  
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**REFERENCE WELLPATH IDENTIFICATION**

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Mondeo Unit 3H
Field	Doddridge	Wellbore	Mondeo Unit 3H AWB
Facility	Deets Pad		

**COMMENTS**

Wellpath general comments  
 API: 47-017-06878-0000  
 BHI Job #: 109876706B  
 Rig: H&P 317  
 Duration: 06/25/2019-09/13/2019  
 Gyrodatta MS Gyro <17'-1/2">(100'-300')  
 APS EM <12'-1/4"> (300')(427'-2540')  
 APS EM <8-3/4"> (2540')(2651'-6445')  
 BH AT Curve <8-1/2">(6445')(6478'-22788')  
 Middlesex: 7010' MD  
 Burkett: 7224' MD  
 Tully: 7279' MD  
 Marcellus POE: 7447' MD  
 Projected MD at TD: 22829'