

ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
 Facility: Doddridge
 Well: Edgar Unit 3H
 Wellbore: Edgar Unit 3H PWB

Plot reference wellpaths is Edgar Unit 3H PWP Rev-A.0
Grid System: NAD83 / UTM Zone 17 North, US feet
North Reference: Grid north
Scale: True distance
Depths are in feet
Pattern 342 (RKB) to Mean Sea Level: 1206 feet
Mean Sea Level to Ground level (At Slot Slot #01): -1181 feet
Coordinates are in feet referenced to Slot

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Alexander Pad	1703908.855	14284263.322	39°20'08.720"N	80°46'31.620"W
Slot #01	36.38	-16.59	1703892.271	14284299.690
Edgar Unit 3H			39°20'09.080"N	80°46'31.830"W
Edgar Unit 3H			25ft	
Mean Sea Level to Ground level (At Slot Slot #01)			-1181ft	
Pattern 342 (RKB) to Ground level (At Slot Slot #01)			1206ft	

Gyrodata MS Gyro <17-1/2> (100°-550') : 0.10° Inc, 100.00ft MD, 100.00ft TVD, 0.05ft VS

WFT EM <12-1/4> (550°(644°-2504')) : 0.36° Inc, 644.00ft MD, 643.99ft TVD, 0.91ft VS

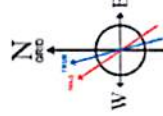
Well Profile Data

Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	6030.00	28.760	17.220	6368.82	270.72	1035.14	5.79	-342.71
Proj. To Bottom	6704.00	27.570	8.970	6434.08	313.67	1042.97	5.74	-314.03
End of 3D Arc	7029.24	41.576	339.918	6702.95	491.47	1616.63	6.50	-139.12
POE	7315.60	65.752	338.367	6965.00	708.86	1533.44	9.50	93.70
Landing Pt.	7539.26	90.000	338.367	6906.00	912.04	1452.86	9.50	312.28
BHL	17739.53	90.000	338.367	6906.00	10393.88	-2307.40	0.00	10512.55

WFT EM <8-3/4> (2504°(2662°-6630')) : 16.75° Inc, 2662.00ft MD, 2596.47ft TVD, -96.78ft VS

Well Data

Slot	Well	Wellbore	Wellpath
Slot #01	Edgar Unit 3H	Edgar Unit 3H AWB	Edgar Unit 3H AWP Proj. 17769
Slot #01	Edgar Unit 3H	Edgar Unit 3H PWB	Edgar Unit 3H PWP Rev-A.0



User specified Dip: 66.96° Field: 5204ft mT
 Magnetic North is 0.14 degrees East of True North
 Grid North is 0.14 degrees East of True North
 To correct azimuth from True to Grid subtract 0.14 degrees
 To correct azimuth from Magnetic to Grid subtract 7.80 degrees

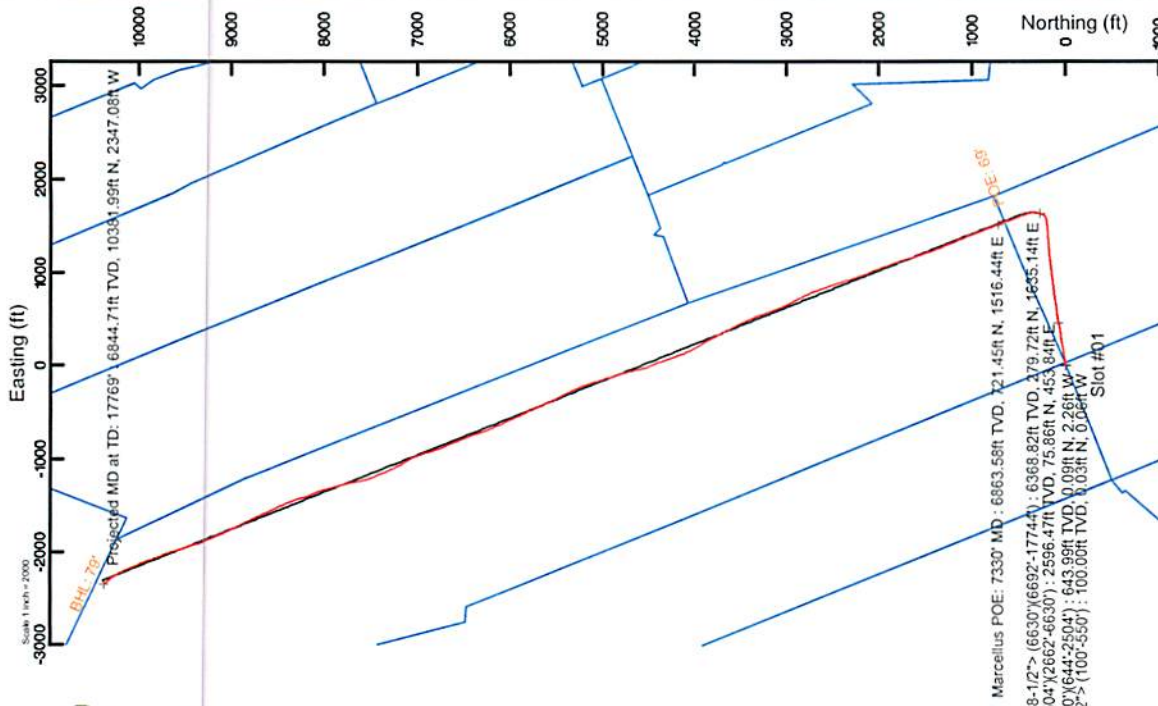
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BHI AT Curve <8-1/2> (6630°(6692°-1774')) : 28.76° Inc, 6630.00ft MD, 6368.82ft TVD, -342.71ft VS

Marcellus POE: 7330° MD : 70.27° Inc, 7330.00ft MD, 6663.58ft TVD, 111.68ft VS

Projected MD at TD: 17769° : 90.03° Inc, 17769.00ft MD, 6844.71ft TVD, 10516.09ft VS

API: 47-017-06856-0000
 BHI Job #: 9214438
 Rig: Patterson 342
 Duration: 06/13/2018-06/16/2018





Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 1 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #01	Edgar Unit 3H
Area	Doddridge Co., WV	Well	Edgar Unit 3H AWB
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999605	Report Generated	01/Aug/2018 at 10:04
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EasternUS_Defn/Edgar_Unit_3H_AWP_Proj_17769_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East(ft)	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	36.38	-16.59	1703892.27	14284299.69	39°20'09.080"N	80°46'31.830"W
Facility Reference Pt			1703908.86	14284263.32	39°20'08.720"N	80°46'31.620"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 342 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Mean Sea Level	1206.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #01)	25.00ft
MD Reference Pt	Patterson 342 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	338.37°

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 2 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Edgar Unit 3H
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (208 stations) † = interpolated/extrapolated station

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 F/(100ft)	Build Rate F/(100ft)	Turn Rate F/(100ft)	Comments
0.00†	0.00	296.620	0.00	0.00	0.00	0.00	1703892.27	14284299.69	39°20'09.080"N	80°46'31.830"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	296.620	25.00	0.00	0.00	0.00	1703892.27	14284299.69	39°20'09.080"N	80°46'31.830"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.100	296.620	100.00	0.05	0.03	-0.06	1703892.21	14284299.72	39°20'09.080"N	80°46'31.831"W	0.07	296.620	0.13	0.13	-84.51	Syrodatta MS Gyro <17-1/2"> (100-550')
200.00	0.240	288.180	200.00	0.25	0.13	-0.34	1703891.94	14284299.82	39°20'09.081"N	80°46'31.834"W	0.36	291.738	0.14	0.14	-8.44	
300.00	0.210	261.800	300.00	0.42	0.17	-0.72	1703891.56	14284299.86	39°20'09.082"N	80°46'31.839"W	0.74	283.584	0.11	-0.03	-26.38	
400.00	0.190	275.160	400.00	0.54	0.16	-1.06	1703891.21	14284299.85	39°20'09.082"N	80°46'31.844"W	1.07	278.657	0.05	-0.02	13.36	
500.00	0.350	280.260	500.00	0.78	0.23	-1.53	1703890.74	14284299.92	39°20'09.082"N	80°46'31.849"W	1.55	278.603	0.16	0.16	5.12	
550.00	0.370	282.170	550.00	0.95	0.29	-1.84	1703890.44	14284299.98	39°20'09.083"N	80°46'31.853"W	1.86	279.050	0.05	0.04	3.78	
644.00	0.360	204.640	643.99	0.91	0.09	-2.26	1703890.02	14284299.78	39°20'09.081"N	80°46'31.859"W	2.26	272.235	0.49	-0.01	-82.48	WFT EM <12-1/4"> (550')(644'-2504')
735.00	1.250	108.010	734.99	0.08	-0.48	-1.43	1703890.84	14284299.21	39°20'09.075"N	80°46'31.848"W	1.51	251.504	1.47	0.98	-106.19	
824.00	3.350	94.040	823.91	-1.66	-0.96	2.09	1703894.36	14284298.73	39°20'09.070"N	80°46'31.803"W	2.30	114.757	2.42	2.36	-15.70	
919.00	5.210	88.490	918.64	-4.35	-1.04	9.17	1703901.44	14284298.65	39°20'09.069"N	80°46'31.713"W	9.23	96.497	2.00	1.96	-5.84	
1013.00	6.560	78.840	1012.15	-6.79	0.11	18.70	1703910.97	14284299.80	39°20'09.081"N	80°46'31.592"W	18.70	89.670	1.78	1.44	-10.27	
1107.00	8.100	70.390	1105.38	-8.00	3.37	30.21	1703922.47	14284303.06	39°20'09.113"N	80°46'31.445"W	30.40	83.635	2.00	1.64	-8.99	
1201.00	9.370	72.570	1198.29	-8.80	7.88	43.75	1703936.00	14284307.57	39°20'09.157"N	80°46'31.273"W	44.45	79.784	1.40	1.35	2.32	
1295.00	10.090	78.700	1290.94	-10.83	11.79	59.13	1703951.37	14284311.48	39°20'09.195"N	80°46'31.077"W	60.29	78.722	1.34	0.77	6.52	
1390.00	11.270	80.700	1384.29	-14.31	14.92	76.45	1703968.59	14284314.61	39°20'09.226"N	80°46'30.857"W	77.89	78.956	1.30	1.24	2.11	
1484.00	13.430	81.000	1476.11	-18.66	18.11	96.30	1703988.53	14284317.80	39°20'09.257"N	80°46'30.604"W	97.98	79.347	2.30	2.30	0.32	
1579.00	15.700	80.060	1568.05	-23.67	22.06	119.86	1704012.08	14284321.74	39°20'09.295"N	80°46'30.304"W	121.87	79.572	2.40	2.39	-0.99	
1673.00	16.810	79.350	1658.29	-28.84	26.77	145.74	1704037.96	14284326.45	39°20'09.341"N	80°46'29.974"W	148.18	79.593	1.20	1.18	-0.76	
1766.00	18.750	79.780	1746.84	-34.36	31.90	173.67	1704065.87	14284331.58	39°20'09.391"N	80°46'29.619"W	176.58	79.591	2.09	2.09	0.46	
1861.00	18.320	79.870	1836.92	-40.36	37.24	203.39	1704095.59	14284336.91	39°20'09.443"N	80°46'29.240"W	206.78	79.625	0.45	-0.45	0.09	
1955.00	18.520	78.940	1926.10	-46.04	42.70	232.59	1704124.77	14284342.37	39°20'09.496"N	80°46'28.869"W	236.48	79.597	0.38	0.21	-0.99	
2049.00	17.880	81.170	2015.40	-51.98	47.78	261.50	1704153.67	14284347.45	39°20'09.546"N	80°46'28.500"W	265.83	79.645	1.01	-0.68	2.37	
2143.00	17.440	81.200	2104.97	-58.30	52.15	289.68	1704181.84	14284351.82	39°20'09.588"N	80°46'28.142"W	294.34	79.794	0.47	-0.47	0.03	
2237.00	19.750	85.730	2194.06	-66.17	55.49	319.44	1704211.59	14284355.16	39°20'09.621"N	80°46'27.763"W	324.23	80.146	2.90	2.46	4.82	
2331.00	21.100	86.430	2282.15	-76.15	57.72	352.17	1704244.30	14284357.39	39°20'09.642"N	80°46'27.346"W	356.87	80.691	1.46	1.44	0.74	
2426.00	18.960	82.160	2371.40	-85.14	60.90	384.53	1704276.65	14284360.56	39°20'09.672"N	80°46'26.934"W	389.32	81.001	2.73	-2.25	-4.49	
2504.00	17.520	78.040	2445.48	-90.13	65.06	408.57	1704300.68	14284364.72	39°20'09.713"N	80°46'26.628"W	413.72	80.953	2.48	-1.85	-5.28	
2662.00	16.750	75.080	2596.47	-96.78	75.86	453.84	1704345.93	14284375.52	39°20'09.819"N	80°46'26.052"W	460.13	80.511	0.74	-0.49	-1.89	WFT EM <8-3/4"> (2504')(2662'-6630')

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 3 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Edgar Unit 3H
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (208 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
2758.00	17.570	81.010	2686.29	-101.46	81.57	480.94	1704373.02	14284381.22	39°20'09.874"N	80°46'25.707"W	487.81	80.375	2.06	0.87	6.33	
2851.00	17.680	80.950	2776.84	-107.74	86.08	509.35	1704401.42	14284385.73	39°20'09.918"N	80°46'25.345"W	516.57	80.408	0.12	0.12	-0.06	
2945.00	17.280	83.360	2866.50	-114.46	89.93	537.31	1704429.37	14284389.59	39°20'09.956"N	80°46'24.989"W	544.79	80.498	0.88	-0.43	2.56	
3040.00	17.040	82.160	2957.27	-121.43	93.46	565.12	1704457.17	14284393.12	39°20'09.990"N	80°46'24.635"W	572.80	80.509	0.45	-0.25	-1.26	
3133.00	17.300	83.820	3046.12	-128.36	96.81	592.37	1704484.40	14284396.46	39°20'10.022"N	80°46'24.288"W	600.22	80.718	0.60	0.28	1.78	
3233.00	17.230	83.170	3141.62	-136.10	100.17	621.85	1704513.88	14284399.82	39°20'10.055"N	80°46'23.913"W	629.87	80.849	0.21	-0.07	-0.65	
3328.00	17.880	83.950	3232.19	-143.61	103.38	650.33	1704542.34	14284403.03	39°20'10.086"N	80°46'23.550"W	658.49	80.967	0.73	0.68	0.82	
3422.00	17.580	82.990	3321.73	-151.07	106.64	678.77	1704570.77	14284406.29	39°20'10.117"N	80°46'23.188"W	687.09	81.071	0.45	-0.32	-1.02	
3516.00	16.800	81.340	3411.53	-157.70	110.42	706.29	1704598.28	14284410.06	39°20'10.154"N	80°46'22.838"W	714.86	81.115	0.98	-0.83	-1.76	
3610.00	17.880	82.290	3501.26	-164.22	114.40	734.02	1704626.00	14284414.04	39°20'10.193"N	80°46'22.485"W	742.88	81.142	1.19	1.15	1.01	
3705.00	17.660	81.320	3592.67	-171.03	118.57	763.01	1704654.98	14284418.22	39°20'10.233"N	80°46'22.115"W	772.17	81.167	0.38	-0.23	-1.01	
3801.00	17.860	83.280	3683.15	-178.01	122.45	791.73	1704683.68	14284422.09	39°20'10.271"N	80°46'21.750"W	801.14	81.208	0.66	0.21	2.06	
3896.00	17.760	82.600	3773.60	-185.32	126.02	820.56	1704712.51	14284425.66	39°20'10.305"N	80°46'21.383"W	830.18	81.269	0.24	-0.11	-0.72	
3990.00	17.790	84.950	3863.11	-192.94	129.13	849.09	1704741.02	14284429.77	39°20'10.335"N	80°46'21.020"W	858.85	81.352	0.76	0.03	2.50	
4085.00	17.430	83.070	3953.66	-200.69	132.13	877.67	1704769.59	14284431.76	39°20'10.364"N	80°46'20.656"W	887.56	81.439	0.71	-0.38	-1.98	
4179.00	17.520	84.190	4043.32	-208.12	135.26	905.72	1704797.63	14284434.89	39°20'10.394"N	80°46'20.299"W	915.76	81.506	0.37	0.10	1.19	
4273.00	17.520	83.000	4132.96	-215.56	138.41	933.84	1704825.74	14284438.05	39°20'10.425"N	80°46'19.941"W	944.04	81.569	0.38	0.00	-1.27	
4367.00	17.070	80.210	4222.71	-221.96	142.48	961.48	1704853.37	14284442.12	39°20'10.464"N	80°46'19.589"W	971.98	81.570	1.00	-0.48	-2.97	
4461.00	17.030	82.300	4312.58	-228.10	146.68	988.71	1704880.59	14284446.31	39°20'10.505"N	80°46'19.242"W	999.53	81.562	0.65	-0.04	2.22	
4555.00	17.760	85.130	4402.28	-235.55	149.74	1016.64	1704908.51	14284449.37	39°20'10.535"N	80°46'18.887"W	1027.61	81.621	1.19	0.78	3.01	
4650.00	17.910	83.530	4492.72	-243.55	152.61	1045.59	1704937.45	14284452.24	39°20'10.562"N	80°46'18.518"W	1056.67	81.696	0.54	0.16	-1.68	
4744.00	17.500	80.820	4582.27	-250.38	156.50	1073.91	1704965.75	14284456.12	39°20'10.600"N	80°46'18.158"W	1085.25	81.709	0.98	-0.44	-2.88	
4838.00	17.560	82.440	4671.90	-256.87	160.62	1101.91	1704993.74	14284460.24	39°20'10.640"N	80°46'17.801"W	1113.55	81.707	0.52	0.05	1.72	
4932.00	18.480	81.530	4761.30	-263.71	164.67	1130.69	1705022.51	14284464.30	39°20'10.680"N	80°46'17.435"W	1142.62	81.714	1.03	0.99	-0.97	
5027.00	19.030	82.410	4851.25	-270.89	168.94	1160.94	1705052.75	14284468.56	39°20'10.721"N	80°46'17.050"W	1173.16	81.721	0.65	0.58	0.93	
5121.00	17.930	86.760	4940.41	-279.18	171.78	1190.58	1705082.37	14284471.40	39°20'10.748"N	80°46'16.672"W	1202.90	81.790	1.88	-1.17	4.63	
5215.00	17.450	84.950	5029.96	-287.76	173.84	1219.06	1705110.85	14284473.46	39°20'10.768"N	80°46'16.310"W	1231.39	81.884	0.78	-0.51	-1.93	
5309.00	17.470	81.890	5119.63	-295.08	177.07	1247.07	1705138.85	14284476.69	39°20'10.799"N	80°46'15.953"W	1259.58	81.919	0.98	0.02	-3.26	
5404.00	17.710	82.650	5210.19	-301.98	180.93	1275.52	1705167.28	14284480.55	39°20'10.837"N	80°46'15.591"W	1288.29	81.927	0.35	0.25	0.80	
5498.00	17.630	86.440	5299.76	-309.92	183.64	1303.91	1705195.66	14284483.26	39°20'10.863"N	80°46'15.229"W	1316.78	81.983	1.23	-0.09	4.03	

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Page 4 of 11



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Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (208 stations) + = interpolated/extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	VertSect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments	
5593.00	18.120	82.700	5390.18	-318.04	186.41	1332.92	1705224.66	14284486.03	39°20'10.889"N	80°46'14.860"W	1345.89	82.039	1.31	0.52	-3.94	
5687.00	18.150	83.620	5479.51	-325.51	189.90	1361.97	1705253.70	14284489.51	39°20'10.923"N	80°46'14.490"W	1375.14	82.062	0.31	0.03	0.98	
5781.00	16.910	86.510	5569.14	-333.62	192.36	1390.17	1705281.88	14284491.97	39°20'10.947"N	80°46'14.131"W	1403.41	82.122	1.61	-1.32	3.07	
5876.00	17.840	84.770	5659.81	-342.03	194.52	1418.45	1705310.16	14284494.14	39°20'10.967"N	80°46'13.771"W	1431.72	82.191	1.12	0.98	-1.83	
5970.00	18.300	84.280	5749.17	-350.14	197.31	1447.47	1705339.17	14284496.92	39°20'10.994"N	80°46'13.402"W	1460.86	82.238	0.52	0.49	-0.52	
6064.00	17.180	85.260	5838.70	-359.22	199.93	1475.99	1705367.68	14284499.54	39°20'11.019"N	80°46'13.039"W	1489.47	82.286	1.23	-1.19	1.04	
6159.00	18.350	81.330	5929.17	-365.65	203.34	1504.76	1705396.43	14284502.95	39°20'11.052"N	80°46'12.673"W	1518.44	82.304	1.76	1.23	-4.14	
6253.00	18.030	82.800	6018.47	-372.59	207.39	1533.82	1705425.48	14284507.00	39°20'11.092"N	80°46'12.303"W	1547.78	82.300	0.60	-0.34	1.56	
6347.00	20.950	80.470	6107.08	-379.74	212.00	1564.83	1705456.48	14284511.61	39°20'11.136"N	80°46'11.908"W	1579.13	82.285	3.21	3.11	-2.48	
6392.00	20.040	79.970	6149.23	-382.85	214.81	1580.33	1705471.98	14284514.41	39°20'11.164"N	80°46'11.710"W	1594.87	82.259	2.33	-2.02	-3.33	
6442.00	18.570	67.090	6196.44	-384.25	219.55	1596.08	1705487.72	14284519.15	39°20'11.210"N	80°46'11.510"W	1611.11	82.168	8.37	-2.94	-23.76	
6487.00	19.110	48.180	6239.07	-381.54	227.26	1608.18	1705499.82	14284526.86	39°20'11.286"N	80°46'11.356"W	1624.16	81.957	13.57	1.20	-42.02	
6535.00	23.100	30.300	6284.82	-372.83	240.92	1619.03	1705510.66	14284540.52	39°20'11.421"N	80°46'11.217"W	1636.86	81.536	15.37	8.14	-36.49	
6581.00	27.230	22.310	6325.55	-359.97	258.08	1627.40	1705519.02	14284557.67	39°20'11.590"N	80°46'11.110"W	1647.73	80.989	11.87	9.18	-17.76	
6630.00	28.760	17.220	6368.82	-342.71	279.72	1635.14	1705526.76	14284579.30	39°20'11.804"N	80°46'11.011"W	1658.90	80.293	5.79	3.12	-10.39	BH IAT Curve <8-1/2> (6630)(6692-17744)
6692.00	27.830	10.440	6423.43	-318.82	308.21	1642.18	1705533.80	14284607.77	39°20'12.085"N	80°46'10.920"W	1670.85	79.370	5.39	-1.50	-10.94	
6739.00	27.310	5.310	6465.09	-299.91	329.73	1645.17	1705536.79	14284629.29	39°20'12.298"N	80°46'10.882"W	1677.89	78.667	5.17	-1.11	-10.91	
6785.00	29.100	358.240	6506.52	-279.55	351.90	1645.82	1705537.43	14284651.45	39°20'12.517"N	80°46'10.873"W	1683.02	77.931	8.06	3.81	-15.04	
6833.00	30.510	349.500	6547.33	-257.08	375.07	1643.29	1705534.91	14284674.61	39°20'12.746"N	80°46'10.904"W	1685.55	77.143	9.71	3.00	-18.60	
6880.00	32.370	342.910	6587.44	-232.82	398.83	1637.42	1705529.04	14284698.36	39°20'12.981"N	80°46'10.978"W	1685.29	76.311	8.31	3.96	-14.02	
6928.00	36.260	339.460	6627.08	-205.81	424.42	1628.65	1705520.28	14284723.94	39°20'13.234"N	80°46'11.089"W	1683.05	75.394	9.06	8.10	-7.19	
6975.00	40.080	338.800	6664.02	-176.77	451.55	1618.30	1705509.93	14284751.06	39°20'13.503"N	80°46'11.220"W	1680.12	74.409	8.17	8.13	-1.40	
7022.00	44.060	339.140	6698.90	-145.29	480.94	1607.01	1705498.84	14284780.44	39°20'13.793"N	80°46'11.362"W	1677.43	73.339	8.48	8.47	0.72	
7069.00	48.100	339.540	6731.50	-111.44	512.61	1595.07	1705486.71	14284812.10	39°20'14.107"N	80°46'11.513"W	1675.42	72.184	8.62	8.60	0.85	
7116.00	52.370	339.360	6761.55	-75.33	546.43	1582.39	1705474.03	14284845.91	39°20'14.441"N	80°46'11.674"W	1674.08	70.949	9.09	9.09	-0.38	
7159.00†	55.783	339.296	6786.78	-40.52	579.01	1570.10	1705461.74	14284878.47	39°20'14.764"N	80°46'11.829"W	1673.46	69.757	7.94	7.94	-0.15	Burkett: 7159' MD
7163.00	56.100	339.290	6789.02	-37.21	582.11	1568.93	1705460.57	14284881.57	39°20'14.794"N	80°46'11.844"W	1673.43	69.644	7.94	7.94	-0.14	
7214.00†	60.382	339.361	6815.98	6.14	622.67	1553.62	1705445.27	14284922.11	39°20'15.196"N	80°46'12.037"W	1673.75	68.160	8.40	8.40	0.14	Jully: 7214' MD
7221.00	60.970	339.370	6819.29	12.24	628.38	1551.47	1705443.12	14284927.82	39°20'15.252"N	80°46'12.064"W	1673.89	67.951	8.40	8.40	0.13	
7258.00	64.390	339.170	6836.26	45.11	659.12	1539.83	1705431.49	14284958.55	39°20'15.556"N	80°46'12.211"W	1674.97	66.827	9.26	9.24	-0.54	



Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 5 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Edgar Unit 3H
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (208 stations) † = interpolated/extrapolated station

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 [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
7300.00†	68.465	339.493	6863.06	83.59	1526.25	1705417.92	14284994.55	39°20'15.912"N	80°46'12.383"W	1677.10	65.513	9.73	9.70	0.77	Hamilton: 7300' MD	
7305.00	68.950	339.530	6854.87	88.25	699.50	1524.62	14284998.91	39°20'15.956"N	80°46'12.404"W	1677.43	65.354	9.73	9.70	0.74		
7330.00†	70.268	339.594	6863.58	111.68	721.45	1516.44	14285020.86	39°20'16.173"N	80°46'12.507"W	1679.31	64.557	5.28	5.28	0.26	Marcellus POE: 7330' MD	
7352.00	71.430	339.650	6870.80	132.45	740.94	1509.20	14285040.33	39°20'16.366"N	80°46'12.599"W	1681.27	63.851	5.28	5.28	0.25		
7400.00	73.790	339.330	6885.14	178.25	783.83	1493.15	14285083.21	39°20'16.790"N	80°46'12.802"W	1686.39	62.303	4.96	4.92	-0.67		
7447.00	78.760	339.210	6896.29	223.88	826.52	1477.00	14285125.88	39°20'17.212"N	80°46'13.006"W	1692.53	60.769	10.58	10.57	-0.26		
7494.00	84.890	339.490	6902.97	270.38	870.04	1460.60	14285169.38	39°20'17.643"N	80°46'13.213"W	1700.09	59.219	13.06	13.04	0.60		
7559.00	90.950	339.600	6905.15	330.30	926.19	1439.65	14285225.51	39°20'18.198"N	80°46'13.478"W	1711.85	57.245	17.10	10.10	0.18		
7584.00	90.950	338.730	6904.57	365.29	958.90	1427.21	1428518.91	39°20'18.522"N	80°46'13.635"W	1719.42	56.104	2.49	0.00	-2.49		
7683.00	90.830	336.440	6903.11	459.26	1045.78	1391.37	14285345.05	39°20'19.382"N	80°46'14.088"W	1740.56	53.071	2.44	-0.13	-2.44		
7777.00	90.950	337.320	6901.65	553.22	1132.22	1354.47	14285246.20	39°20'20.237"N	80°46'14.555"W	1765.36	50.107	0.94	0.13	0.94		
7873.00	90.980	338.130	6900.03	649.20	1221.04	1318.08	14285209.83	39°20'21.116"N	80°46'15.016"W	1796.74	47.189	0.84	0.03	0.84		
7968.00	90.400	337.300	6898.89	744.18	1308.94	1282.06	14285608.11	39°20'21.985"N	80°46'15.471"W	1832.21	44.406	1.07	-0.61	-0.87		
8062.00	90.370	339.360	6898.26	838.18	1396.29	1247.35	14285695.42	39°20'22.849"N	80°46'15.910"W	1872.30	41.776	2.19	-0.03	2.19		
8157.00	90.280	342.120	6897.72	933.08	1485.96	1216.02	14285795.06	39°20'23.736"N	80°46'16.306"W	1920.10	39.295	2.91	-0.09	2.91		
8251.00	90.250	341.450	6897.28	1026.92	1575.25	1166.64	14285874.31	39°20'24.620"N	80°46'16.677"W	1972.18	36.991	0.71	-0.03	-0.71		
8346.00	90.250	341.770	6896.87	1121.76	1665.39	1156.67	14285964.42	39°20'25.511"N	80°46'17.056"W	2027.66	34.781	0.34	0.00	0.34		
8440.00	90.340	342.030	6896.38	1215.58	1754.74	1127.46	14286053.73	39°20'26.395"N	80°46'17.425"W	2085.74	32.722	0.29	0.10	0.28		
8534.00	90.280	340.660	6895.88	1309.45	1843.80	1097.40	14286142.76	39°20'27.276"N	80°46'17.804"W	2145.66	30.760	1.46	-0.06	-1.46		
8630.00	90.310	340.920	6895.38	1405.37	1934.45	1065.81	14286233.37	39°20'28.173"N	80°46'18.203"W	2208.63	28.853	0.27	0.03	0.27		
8724.00	90.340	339.610	6894.85	1499.31	2022.93	1034.07	14286321.82	39°20'29.048"N	80°46'18.605"W	2271.90	27.075	1.39	0.03	-1.39		
8819.00	90.400	336.410	6894.23	1594.30	2111.00	998.50	14286409.86	39°20'29.920"N	80°46'19.054"W	2335.24	25.314	3.37	0.06	-3.37		
8915.00	90.430	342.020	6893.54	1690.24	2200.72	964.45	14286499.53	39°20'30.807"N	80°46'19.485"W	2402.77	23.665	5.84	0.03	5.84		
9009.00	90.770	341.590	6892.60	1784.07	2290.01	935.10	14286588.79	39°20'31.690"N	80°46'19.856"W	2473.58	22.212	0.55	0.30	-0.46		
9105.00	90.650	343.900	6891.46	1879.78	2381.68	906.63	14286680.42	39°20'32.597"N	80°46'20.215"W	2548.41	20.840	2.41	-0.06	2.41		
9200.00	90.370	339.260	6890.67	1974.60	2471.78	876.62	14286770.49	39°20'33.488"N	80°46'20.594"W	2622.63	19.527	4.90	-0.36	-4.88		
9295.00	90.890	339.420	6889.67	2069.58	2560.67	843.10	14286859.34	39°20'34.368"N	80°46'21.016"W	2695.90	18.224	0.63	0.61	0.17		
9390.00	90.520	341.210	6888.50	2164.51	2650.11	811.11	14286948.74	39°20'35.253"N	80°46'21.422"W	2771.46	17.018	1.92	-0.39	1.88		
9485.00	90.450	337.790	6887.67	2259.48	2739.07	777.84	14287037.68	39°20'36.133"N	80°46'21.843"W	2847.38	15.853	3.60	-0.03	-3.60		
9580.00	90.340	334.410	6886.98	2354.39	2825.91	739.36	14287124.48	39°20'36.992"N	80°46'22.330"W	2921.04	14.662	3.56	-0.16	-3.56		

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 6 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Edgar Unit 3H
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (208 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)	Bulld Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
9674.00	90.060	331.520	6886.65	2447.96	2909.63	696.64	1704588.63	14287208.17	39°20'37.820"N	80°46'22.871"W	2991.87	13.465	3.09	-0.30	-3.07	
9769.00	90.180	334.120	6886.45	2542.50	2994.14	653.25	1704545.26	14287292.64	39°20'38.657"N	80°46'23.421"W	3054.57	12.308	2.74	0.13	2.74	
9864.00	90.400	338.380	6885.97	2637.42	3081.07	615.00	1704507.02	14287379.53	39°20'39.517"N	80°46'23.905"W	3141.85	11.288	4.49	0.23	4.48	
9959.00	90.150	340.190	6885.51	2732.40	3169.92	581.40	1704473.44	14287468.35	39°20'40.396"N	80°46'24.330"W	3222.80	10.393	1.92	-0.26	1.91	
10053.00	90.150	340.520	6885.27	2826.34	3258.45	549.79	1704441.85	14287556.85	39°20'41.272"N	80°46'24.729"W	3304.51	9.577	0.35	0.00	0.35	
10147.00	90.250	339.380	6884.94	2920.30	3348.75	517.57	1704409.63	14287645.11	39°20'42.145"N	80°46'25.136"W	3386.54	8.791	1.22	0.11	-1.21	
10242.00	90.220	334.870	6884.55	3015.26	3434.26	480.65	1704372.73	14287732.58	39°20'43.011"N	80°46'25.603"W	3467.73	7.967	4.75	-0.03	-4.75	
10336.00	90.080	332.850	6884.32	3108.96	3518.64	439.24	1704331.33	14287816.93	39°20'43.846"N	80°46'26.128"W	3545.95	7.116	2.16	-0.17	-2.15	
10430.00	90.180	334.860	6884.12	3202.66	3603.02	397.82	1704289.93	14287901.27	39°20'44.681"N	80°46'26.652"W	3624.91	6.301	2.14	0.13	2.14	
10524.00	90.150	332.260	6883.85	3296.32	3687.18	355.97	1704248.10	14287985.40	39°20'45.514"N	80°46'27.182"W	3704.32	5.514	2.77	-0.03	-2.77	
10618.00	90.060	331.160	6883.68	3389.69	3769.95	311.42	1704206.57	14288068.14	39°20'46.333"N	80°46'27.747"W	3782.79	4.722	1.17	-0.10	-1.17	
10711.00	90.180	329.910	6883.49	3481.82	3850.92	265.67	1704165.84	14288149.08	39°20'47.134"N	80°46'28.327"W	3860.07	3.947	1.35	0.13	-1.34	
10805.00	90.220	331.020	6883.16	3574.92	3932.70	219.34	1704111.52	14288230.83	39°20'47.944"N	80°46'28.914"W	3938.81	3.192	1.18	0.04	1.18	
10899.00	90.150	333.840	6882.85	3668.41	4016.02	175.84	1704068.04	14288314.11	39°20'48.768"N	80°46'29.465"W	4019.86	2.507	3.00	-0.07	3.00	
10994.00	90.030	336.080	6882.70	3763.23	4102.08	135.63	1704027.85	14288400.14	39°20'49.620"N	80°46'29.974"W	4104.32	1.894	2.36	-0.13	2.36	
11089.00	90.150	340.430	6882.55	3858.21	4190.30	100.44	1703992.67	14288488.33	39°20'50.493"N	80°46'30.419"W	4191.50	1.373	4.58	0.13	4.58	
11183.00	90.120	340.980	6882.33	3952.13	4279.02	69.38	1703951.63	14288577.01	39°20'51.370"N	80°46'30.812"W	4279.58	0.929	0.59	-0.03	0.59	
11278.00	90.180	340.120	6882.08	4047.06	4368.60	37.75	1703910.01	14288666.55	39°20'52.257"N	80°46'31.211"W	4368.76	0.495	0.91	0.06	-0.91	
11372.00	90.030	338.070	6881.91	4141.05	4456.41	4.21	1703868.48	14288754.32	39°20'53.125"N	80°46'31.638"W	4456.41	0.054	2.19	-0.16	-2.18	
11467.00	89.600	341.860	6882.22	4235.99	4545.64	-28.33	1703826.95	14288843.52	39°20'54.008"N	80°46'32.047"W	4545.73	359.643	4.02	-0.45	3.99	
11562.00	90.280	348.250	6882.32	4330.30	4637.38	-52.82	1703783.48	14288935.22	39°20'54.915"N	80°46'32.356"W	4637.68	359.347	6.76	0.72	6.73	
11656.00	90.150	345.540	6881.97	4423.25	4728.92	-74.13	1703741.17	14289026.73	39°20'55.821"N	80°46'32.624"W	4729.50	359.102	2.89	-0.14	-2.88	
11751.00	90.060	342.810	6881.79	4517.75	4820.31	-100.03	1703699.28	14289118.09	39°20'56.724"N	80°46'32.951"W	4821.35	358.811	2.88	-0.09	-2.87	
11846.00	90.280	342.190	6881.51	4612.51	4910.91	-128.61	1703657.72	14289208.65	39°20'57.621"N	80°46'33.312"W	4912.59	358.500	0.70	0.23	-0.66	
11940.00	90.620	343.810	6880.77	4706.20	5000.79	-156.10	1703616.24	14289298.50	39°20'58.510"N	80°46'33.659"W	5003.23	358.212	1.77	0.36	1.73	
12034.00	90.430	342.730	6879.91	4799.85	5090.81	-183.15	1703574.19	14289388.48	39°20'59.400"N	80°46'34.000"W	5094.10	357.940	1.17	-0.20	-1.15	
12128.00	90.680	339.970	6879.00	4893.71	5179.86	-213.21	1703532.49	14289477.49	39°21'00.281"N	80°46'34.380"W	5184.25	357.643	2.95	0.27	-2.94	
12223.00	90.120	336.490	6878.34	4988.69	5268.07	-248.44	1703490.93	14289565.67	39°21'01.154"N	80°46'34.826"W	5273.93	357.300	3.71	-0.59	-3.66	
12317.00	89.910	334.160	6878.31	5082.55	5353.49	-287.66	1703604.73	14289651.05	39°21'01.999"N	80°46'35.322"W	5361.21	356.924	2.47	-0.22	-2.46	
12411.00	89.660	332.810	6878.66	5176.21	5437.61	-329.61	1703562.79	14289735.14	39°21'02.831"N	80°46'35.854"W	5447.59	356.531	1.48	-0.27	-1.46	

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 7 of 11



REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #01
Operator	ANTERO RESOURCES CORPORATION	Well	Edgar Unit 3H
Area	Doddridge Co., WV	Wellbore	Edgar Unit 3H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (208 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
12506.00	89.970	334.390	6878.97	5270.87	5522.70	-371.85	1703520.57	14289820.19	39°21'03.673"N	80°46'36.389"W	5535.20	356.148	1.69	0.33	1.66	
12500.00	90.250	337.360	6878.79	5364.77	5608.48	-410.26	1703482.17	14289905.94	39°21'04.522"N	80°46'36.875"W	5623.46	355.816	3.17	0.30	3.16	
12894.00	90.060	336.600	6878.54	5458.75	5694.99	-447.02	1703445.43	14289992.42	39°21'05.378"N	80°46'37.340"W	5712.51	355.512	0.83	-0.20	-0.81	
12788.00	89.970	335.170	6878.51	5552.65	5780.78	-485.43	1703407.04	14290078.18	39°21'06.227"N	80°46'37.827"W	5801.13	355.200	1.52	-0.10	-1.52	
12882.00	90.180	335.060	6878.39	5648.50	5886.06	-524.98	1703367.50	14290163.41	39°21'07.071"N	80°46'38.327"W	5889.50	354.886	0.25	0.22	-0.12	
12975.00	89.910	335.990	6878.32	5739.37	5950.56	-563.81	1703328.69	14290247.89	39°21'07.907"N	80°46'38.819"W	5977.21	354.587	0.64	-0.29	0.57	
13069.00	90.060	334.100	6878.34	5833.19	6035.65	-603.76	1703288.75	14290332.94	39°21'08.749"N	80°46'39.325"W	6065.77	354.288	1.59	0.16	-1.59	
13163.00	90.030	336.130	6878.27	5927.03	6120.91	-643.31	1703249.21	14290418.17	39°21'09.592"N	80°46'39.826"W	6154.63	354.000	2.16	-0.03	2.16	
13257.00	89.880	337.500	6878.34	6021.00	6207.40	-680.13	1703212.41	14290504.62	39°21'10.448"N	80°46'40.292"W	6244.55	353.747	1.73	-0.16	1.72	
13350.00	90.370	340.140	6878.14	6113.99	6294.18	-713.54	1703179.01	14290591.37	39°21'11.307"N	80°46'40.714"W	6334.50	353.532	2.62	0.53	2.57	
13444.00	90.580	340.450	6877.36	6207.93	6382.68	-745.24	1703147.33	14290679.83	39°21'12.182"N	80°46'41.115"W	6426.04	353.340	0.40	0.22	0.33	
13538.00	90.620	340.310	6876.37	6301.87	6471.21	-776.80	1703115.78	14290768.33	39°21'13.058"N	80°46'41.514"W	6517.67	353.155	0.15	0.04	-0.15	
13632.00	90.650	339.210	6875.33	6395.84	6559.40	-809.31	1703083.28	14290856.49	39°21'13.930"N	80°46'41.925"W	6609.14	352.966	1.17	0.03	-1.17	
13726.00	90.520	336.330	6874.37	6489.82	6646.40	-844.87	1703047.74	14290943.45	39°21'14.791"N	80°46'42.375"W	6699.89	352.756	3.07	-0.14	-3.06	
13820.00	90.490	337.650	6873.54	6583.78	6732.92	-881.61	1703011.01	14291029.93	39°21'15.647"N	80°46'42.840"W	6790.39	352.540	1.40	-0.03	1.40	
13914.00	90.520	342.910	6872.71	6677.69	6821.37	-913.32	1702979.32	14291118.35	39°21'16.522"N	80°46'43.241"W	6882.24	352.374	5.60	0.03	5.60	
14008.00	90.620	345.300	6871.78	6771.21	6911.77	-939.06	1702953.59	14291208.71	39°21'17.416"N	80°46'43.566"W	6975.27	352.263	2.54	0.11	2.54	
14103.00	90.400	338.540	6870.93	6865.97	7002.02	-968.52	1702924.13	14291298.93	39°21'18.309"N	80°46'43.938"W	7068.68	352.125	7.12	-0.23	-7.12	
14197.00	90.400	327.760	6870.27	6959.44	7085.76	-1010.92	1702881.76	14291382.63	39°21'19.137"N	80°46'44.475"W	7157.51	351.880	11.47	0.00	-11.47	
14292.00	90.430	329.780	6869.59	7053.10	7166.99	-1060.17	1702832.53	14291463.83	39°21'19.941"N	80°46'45.100"W	7244.97	351.586	2.13	0.03	2.13	
14387.00	90.460	336.600	6868.65	7147.66	7251.72	-1102.99	1702789.72	14291548.53	39°21'20.780"N	80°46'45.642"W	7335.12	351.352	7.18	0.03	7.18	
14482.00	90.340	337.100	6868.18	7242.62	7339.07	-1140.34	1702752.39	14291635.84	39°21'21.644"N	80°46'46.115"W	7427.13	351.168	0.54	-0.13	0.53	
14576.00	90.220	338.020	6867.72	7336.61	7425.95	-1176.22	1702716.52	14291722.69	39°21'22.504"N	80°46'46.569"W	7518.53	351.000	0.99	-0.13	0.98	
14670.00	90.520	341.170	6867.12	7430.57	7514.04	-1208.98	1702683.77	14291810.74	39°21'23.375"N	80°46'46.963"W	7610.68	350.860	3.37	0.32	3.35	
14765.00	90.370	345.920	6866.38	7525.16	7605.12	-1235.89	1702656.88	14291901.79	39°21'24.276"N	80°46'47.323"W	7704.89	350.770	5.00	-0.16	5.00	
14860.00	90.490	350.840	6865.67	7618.68	7698.14	-1255.01	1702637.76	14291994.77	39°21'25.196"N	80°46'47.564"W	7799.77	350.741	5.18	0.13	5.18	
14955.00	90.950	344.750	6864.47	7712.34	7790.94	-1275.09	1702617.69	14292087.54	39°21'26.114"N	80°46'47.816"W	7894.60	350.705	6.43	0.48	-6.41	
15050.00	90.490	344.530	6863.28	7806.77	7882.54	-1300.25	1702592.54	14292179.10	39°21'27.019"N	80°46'48.134"W	7989.06	350.633	0.54	-0.48	-0.23	
15144.00	90.890	343.510	6862.15	7900.30	7972.90	-1326.13	1702566.67	14292269.42	39°21'27.913"N	80°46'48.460"W	8082.44	350.566	1.17	0.43	-1.09	
15239.00	91.350	339.950	6860.29	7995.11	8063.08	-1355.90	1702536.91	14292359.57	39°21'28.805"N	80°46'48.837"W	8176.29	350.454	3.78	0.48	-3.75	

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 8 of 11



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

WELLPATH DATA (208 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 F/100ft	Build Rate F/100ft	Turn Rate F/100ft	Comments
15334.00	90.370	338.900	6858.86	8090.08	8152.01	-1389.28	1702503.55	14292448.46	39°21'29.685"N	80°46'49.259"W	8269.54	350.328	1.51	-1.03	-1.11	
15429.00	90.520	343.490	6858.12	8184.93	8241.91	-1419.89	1702472.94	14292538.33	39°21'30.574"N	80°46'49.646"W	8363.32	350.225	4.83	0.16	4.83	
15524.00	91.380	340.480	6856.55	8279.72	8332.23	-1449.26	1702443.58	14292628.61	39°21'31.468"N	80°46'50.017"W	8457.33	350.133	3.29	0.91	-3.17	
15619.00	90.060	336.970	6855.35	8374.69	8420.73	-1483.73	1702409.13	14292717.08	39°21'32.343"N	80°46'50.453"W	8550.45	350.007	3.95	-1.39	-3.69	
15714.00	90.090	335.980	6855.23	8469.64	8507.84	-1521.64	1702371.23	14292804.14	39°21'33.205"N	80°46'50.933"W	8642.84	349.860	1.04	0.03	-1.04	
15808.00	90.060	335.100	6855.11	8563.52	8593.40	-1560.57	1702332.33	14292889.67	39°21'34.052"N	80°46'51.426"W	8733.95	349.707	0.94	-0.03	-0.94	
15903.00	91.050	334.710	6854.19	8658.34	8679.43	-1600.85	1702292.05	14292975.67	39°21'34.903"N	80°46'51.936"W	8825.82	349.550	1.12	1.04	-0.41	
15997.00	91.230	333.930	6852.32	8752.09	8764.12	-1641.58	1702251.34	14293060.33	39°21'35.741"N	80°46'52.452"W	8916.54	349.391	0.85	0.19	-0.83	
16092.00	91.290	333.240	6850.23	8846.74	8849.18	-1683.83	1702209.11	14293145.36	39°21'36.583"N	80°46'52.987"W	9007.96	349.226	0.73	0.06	-0.73	
16186.00	91.360	334.260	6848.06	8940.40	8933.47	-1725.40	1702167.56	14293229.61	39°21'37.417"N	80°46'53.514"W	9098.56	349.069	1.09	0.06	1.09	
16281.00	91.380	334.830	6845.80	9035.17	9019.22	-1766.22	1702126.76	14293315.33	39°21'38.265"N	80°46'54.031"W	9190.53	348.920	0.60	0.03	0.60	
16375.00	90.740	337.150	6844.06	9129.06	9105.07	-1804.45	1702088.53	14293401.14	39°21'39.114"N	80°46'54.515"W	9282.15	348.790	2.56	-0.68	2.47	
16469.00	90.680	336.050	6842.89	9223.01	9191.33	-1841.78	1702051.22	14293487.36	39°21'39.968"N	80°46'54.988"W	9374.04	348.669	1.17	-0.06	-1.17	
16563.00	90.120	339.080	6842.24	9316.99	9278.20	-1877.65	1702015.37	14293574.20	39°21'40.827"N	80°46'55.442"W	9466.28	348.559	3.28	-0.60	3.22	
16658.00	89.420	341.680	6842.62	9411.92	9367.67	-1909.55	1701983.48	14293663.64	39°21'41.712"N	80°46'55.845"W	9560.32	348.478	2.83	-0.74	2.74	
16753.00	89.510	342.340	6843.51	9506.72	9458.03	-1938.89	1701954.15	14293753.96	39°21'42.606"N	80°46'56.216"W	9654.72	348.415	0.70	0.09	0.69	
16848.00	89.510	342.510	6844.32	9601.48	9548.59	-1967.57	1701925.48	14293844.48	39°21'43.502"N	80°46'56.578"W	9749.20	348.357	0.18	0.00	0.18	
16943.00	89.880	340.770	6844.83	9696.32	9638.75	-1997.49	1701895.57	14293934.61	39°21'44.394"N	80°46'56.956"W	9843.55	348.292	1.87	0.39	-1.83	
17037.00	89.970	340.090	6844.95	9790.26	9727.32	-2028.98	1701864.10	14294023.14	39°21'45.270"N	80°46'57.355"W	9938.67	348.218	0.73	0.10	-0.72	
17133.00	90.060	340.800	6844.92	9886.19	9817.78	-2061.11	1701831.98	14294113.57	39°21'46.155"N	80°46'57.761"W	10031.80	348.144	0.75	0.09	0.74	
17228.00	90.030	337.480	6844.85	9981.17	9906.54	-2094.93	1701798.17	14294202.29	39°21'47.043"N	80°46'58.189"W	10125.62	348.060	3.49	-0.03	-3.49	
17322.00	90.030	338.020	6844.80	10075.17	9993.54	-2130.53	1701762.59	14294289.26	39°21'47.904"N	80°46'58.639"W	10218.12	347.965	0.57	0.00	0.57	
17417.00	90.180	336.770	6844.62	10170.15	10081.24	-2167.04	1701726.09	14294376.92	39°21'48.771"N	80°46'59.102"W	10311.52	347.868	1.33	0.16	-1.32	
17511.00	89.940	334.210	6844.53	10264.02	10166.76	-2206.04	1701687.11	14294462.41	39°21'49.617"N	80°46'59.595"W	10403.35	347.757	2.74	-0.26	-2.72	
17606.00	89.970	328.880	6844.60	10358.32	10250.25	-2251.28	1701641.88	14294545.87	39°21'50.444"N	80°47'00.169"W	10494.57	347.613	5.61	0.03	-5.61	
17700.00	89.910	321.090	6844.70	10449.69	10327.18	-2305.18	1701598.01	14294622.77	39°21'51.205"N	80°47'00.853"W	10581.33	347.417	8.29	-0.06	-8.29	
17744.00	90.030	323.310	6844.72	10491.95	10381.95	-2332.14	1701561.05	14294657.52	39°21'51.549"N	80°47'01.195"W	10621.15	347.316	5.05	0.27	5.05	
17769.00	90.030	323.310	6844.71	10516.09	10381.99	-2347.08	1701546.12	14294677.56	39°21'51.748"N	80°47'01.385"W	10643.99	347.261	0.00	0.00	0.00	Projected MD at TD: 17769'

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 9 of 11



REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #01
ANTERO RESOURCES CORPORATION	Well	Edgar Unit 3H
Area	Wellbore	Edgar Unit 3H AWB
Field		
Facility		

HOLE & CASING SECTIONS - Ref Wellbore: Edgar Unit 3H AWB Ref Wellpath: Edgar Unit 3H AWP Proj: 17769'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start EW [ft]	End N/S [ft]	End EW [ft]
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	0.00	0.03	-0.07
17.5in Open Hole	105.00	585.30	480.30	105.00	585.30	0.03	-0.07	0.29	-2.03
13.375in Casing Surface	25.00	585.30	560.30	25.00	585.30	0.00	0.00	0.29	-2.03
12.5in Open Hole	585.30	2576.80	1991.50	585.30	2514.98	0.29	-2.03	69.80	429.74
9.625in Casing Intermediate	25.00	2576.80	2551.80	25.00	2514.98	0.00	0.00	69.80	429.74
8.75in Open Hole	2576.80	6704.00	4127.20	2514.98	6434.05	69.80	429.74	313.71	1643.13
8.5in Open Hole	6704.00	17769.00	11065.00	6434.05	6844.71	313.71	1643.13	10381.99	-2347.08
5.5in Casing Production	25.00	17769.00	17744.00	25.00	6844.71	0.00	0.00	10381.99	-2347.08

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Edgar Unit 3H POE Rev-2	6865.00	708.86	1533.44	1705425.10	14285008.27	39°20'16.048"N	80°46'12.291"W	point
Edgar Unit 3H BHL Rev-2	6906.00	10393.88	-2307.49	1701585.70	14294689.44	39°21'51.865"N	80°47'00.880"W	point
Edgar Unit 3H LP Rev-1	6906.00	912.04	1452.86	1705344.55	14285211.37	39°20'18.058"N	80°46'13.310"W	point

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'
Page 10 of 11



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Edgar Unit 3H
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

WELLPATH COMPOSITION - Ref Wellbore: Edgar Unit 3H AWB Ref Wellpath: Edgar Unit 3H AWP Proj: 17769'			
Start MD	End MD	Log Name/Comment	Wellbore
[ft]			
25.00	550.00	Gyrodata standard - Drop gyro or Multi-shot	Edgar Unit 3H AWB
550.00	2504.00	ISCWSA MWD, Rev. 4 (Standard)	Edgar Unit 3H AWB
2504.00	6630.00	ISCWSA MWD, Rev. 4 (Standard)	Edgar Unit 3H AWB
6630.00	17744.00	BHI AutoTrak Curve (Short)	Edgar Unit 3H AWB
17744.00	17769.00	Blind Drilling (Std)	Edgar Unit 3H AWB
		Projection to bit	

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Actual Wellpath Report

Edgar Unit 3H AWP Proj: 17769'

Page 11 of 11



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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Doddridge Co., WV	Well	Edgar Unit 3H
Field	Doddridge	Wellbore	Edgar Unit 3H AWB
Facility	Alexander Pad		

COMMENTS
<p>Wellpath general comments</p> <p>API: 47-017-06856-0000</p> <p>BHI Job #: 9214438</p> <p>Rig: Patterson 342</p> <p>Duration: 06/13/2018-06/16/2018</p> <p>Gyrodota MS Gyro <17-1/2"> (100'-550')</p> <p>WFT EM <12-1/4"> (550')(644'-2504')</p> <p>WFT EM <8-3/4"> (2504')(2662'-6630')</p> <p>BHI AT Curve <8-1/2"> (6630')(6692'-17744')</p> <p>Burkett: 7159' MD</p> <p>Tully: 7214' MD</p> <p>Hamilton: 7300' MD</p> <p>Marcellus POE: 7330' MD</p> <p>Projected MD at ID: 17769'</p>

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