

ANTERO RESOURCES CORPORATION

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



API: 47-017-06855-0000
 BHI Job #: 9195054
 Rig: Patterson 342
 Duration: 06/05/2018-06/09/2018

Slot: Slot #02
 Well: Edgar Unit 2H
 Wellbore: Edgar Unit 2H PWB

Plot reference wellpath is Edgar Unit 2H PWB Rev-A.0

Grid System: NAD27 UTM Zone 17 North, US feet
North Reference: Grid north
Measured depths are referenced to Patterson 342 (RKB)
Scale: True distance
Pattern 342 (RKB) to Mean Sea Level: 1206 feet
Mean Sea Level to Ground level (At Slot: Slot #02): -1181 feet
Coordinates are in feet referenced to Slot

Gyrodata SS Gyro <17-1/2> (100°-573') : 0.21° Inc, 100.00ft MD, 100.00ft TVD, -0.13ft VS
 Gyrodata SS Gyro <12-1/4> (573)(687-876) : 1.40° Inc, 687.00ft MD, 686.99ft TVD, -1.99ft VS
 WFT EM <12-1/4> (876)(921-2504) : 5.46° Inc, 921.00ft MD, 920.57ft TVD, -9.38ft VS

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 #02	27.29	-12.64	39°20'08.990"N	80°46'31.780"W
Comment: Edgar Unit 2H				
Patterson 342 (RKB) to Ground level (At Slot: Slot #02)			25ft	
Mean Sea Level to Ground level (At Slot: Slot #02)			-1181ft	
Patterson 342 (RKB) to Mean Sea Level			1206ft	
WFT EM <8-3/4> (2504)(2660-6533) : 9.94° Inc, 2660.00ft MD, 2632.57ft TVD, -132.04ft VS				

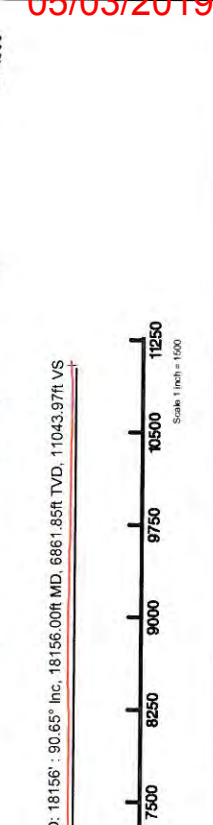
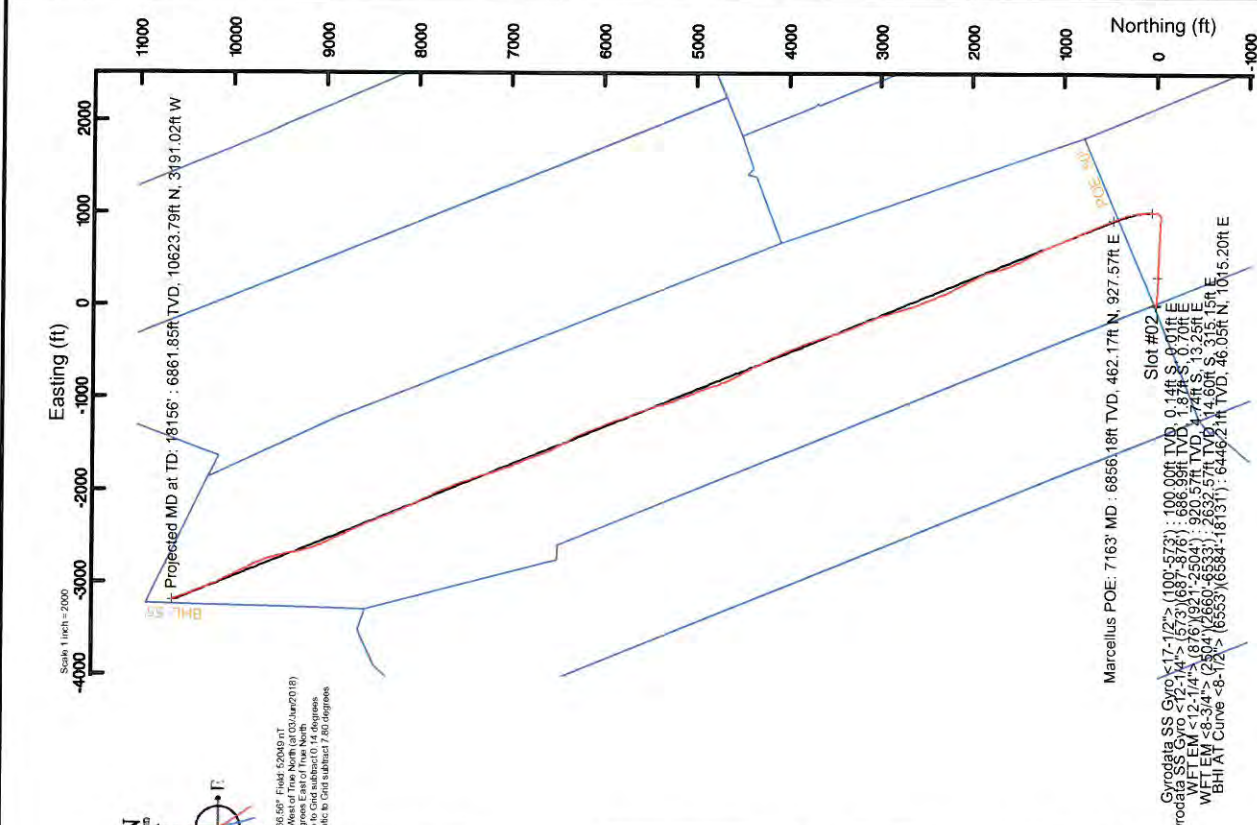
Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (/100ft)	VS (ft)
Tie On	6533.00	21.920	359.150	6427.79	38.26	1015.19	5.92	-346.32
Proj. To Bottom	6609.00	28.160	0.760	6496.61	70.41	1015.22	8.26	-316.54
End of 3D Arc	6748.89	36.261	353.199	6614.92	144.65	1010.75	6.46	-246.07
POE	7162.80	70.519	337.914	6859.00	457.48	919.84	8.75	77.98
Landing Pt.	7406.32	90.000	337.914	6900.00	678.79	830.04	8.00	316.82
BHL	18107.32	90.000	337.914	6900.00	10594.53	-3193.60	0.00	11017.82

Well Data

Slot	Well	Wellbore
Slot #02	Edgar Unit 2H	Edgar Unit 2H AWP Proj: 18156
Slot #02	Edgar Unit 2H	Edgar Unit 2H PWB Rev-A.0

BHI AT Curve <8-1/2> (6553)(6584-18131) : 23.90° Inc, 6553.00ft MD, 6446.21ft TVD, -339.11ft VS
 Marcellus POE: 7163 MD : 68.51° Inc, 7163.00ft MD, 6856.18ft TVD, 79.42ft VS
 Projected MD at TD: 18156 : 90.65° Inc, 18156.00ft MD, 6861.85ft TVD, 11043.97ft VS



Note: specified City: 68.687 Field: 62649.07
 Magnetic: North: 7.66 degrees West of True North (03/03/2018)
 To: Grid North is 0.14 degrees East of True North
 To: Grid East is 0.14 degrees East of True North
 To: connect from magnetic to grid subtract 7.66 degrees



Actual Wellpath Report

Edgar Unit 2H AWP Proj: 18156'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Edgar Unit 2H
Field	Doddridge	Wellbore	Edgar Unit 2H 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	31/Jul/2018 at 15:02
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EasternUS_Defn/Edgar_Unit_2H_AWP_Proj_18156_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	27.29	-12.64	1703896.22	14284290.60	39°20'08.990"N	80°46'31.780"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 #02)	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	337.91°



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Edgar Unit 2H AWP Proj: 18156'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Edgar Unit 2H
Area	Doddridge Co., WV	Wellbore	Edgar Unit 2H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (229 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Turn Rate Comments
0.00	0.000	177.910	0.00	0.00	0.00	0.00	1703896.22	14284290.60	39°20'08.990"N	80°46'31.780"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	177.910	25.00	0.00	0.00	0.00	1703896.22	14284290.60	39°20'08.990"N	80°46'31.780"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.210	177.910	100.00	-0.13	-0.14	0.01	1703896.23	14284290.46	39°20'08.989"N	80°46'31.780"W	0.14	177.910	0.28	0.28	237.21	Byrodatta SS Gyro <17-1/2"> (100'-57'3")
125.00	0.260	180.630	125.00	-0.22	-0.24	0.01	1703896.23	14284290.36	39°20'08.988"N	80°46'31.780"W	0.24	178.553	0.20	0.20	10.88	
150.00	0.080	166.340	150.00	-0.29	-0.31	0.01	1703896.23	14284290.28	39°20'08.987"N	80°46'31.780"W	0.31	178.254	0.73	-0.72	-57.16	
175.00	0.160	211.130	175.00	-0.33	-0.36	0.00	1703896.22	14284290.24	39°20'08.986"N	80°46'31.780"W	0.36	180.694	0.47	0.32	179.16	
200.00	0.110	210.910	200.00	-0.37	-0.41	-0.03	1703896.19	14284290.19	39°20'08.986"N	80°46'31.780"W	0.41	184.833	0.20	-0.20	-0.88	
225.00	0.140	235.500	225.00	-0.39	-0.45	-0.07	1703896.15	14284290.15	39°20'08.986"N	80°46'31.781"W	0.45	189.145	0.24	0.12	98.36	
250.00	0.330	206.170	250.00	-0.44	-0.53	-0.13	1703896.09	14284290.07	39°20'08.985"N	80°46'31.782"W	0.55	193.680	0.88	0.76	-117.32	
275.00	0.310	208.810	275.00	-0.53	-0.65	-0.19	1703896.03	14284289.94	39°20'08.984"N	80°46'31.782"W	0.88	196.470	0.10	-0.08	10.56	
300.00	0.310	196.560	300.00	-0.63	-0.78	-0.25	1703895.98	14284289.82	39°20'08.982"N	80°46'31.783"W	0.82	197.492	0.26	0.00	-49.00	
325.00	0.330	205.150	325.00	-0.73	-0.91	-0.30	1703895.93	14284289.69	39°20'08.981"N	80°46'31.784"W	0.96	198.001	0.21	0.08	34.36	
350.00	0.110	180.370	350.00	-0.80	-1.00	-0.33	1703895.89	14284289.60	39°20'08.980"N	80°46'31.784"W	1.05	198.094	0.94	-0.88	-99.12	
375.00	0.130	186.470	375.00	-0.85	-1.05	-0.34	1703895.89	14284289.55	39°20'08.980"N	80°46'31.784"W	1.10	197.416	0.09	0.08	24.40	
400.00	0.140	192.560	400.00	-0.90	-1.11	-0.34	1703895.88	14284289.49	39°20'08.979"N	80°46'31.784"W	1.16	197.022	0.07	0.04	24.36	
425.00	0.150	194.460	425.00	-0.95	-1.17	-0.35	1703895.87	14284289.43	39°20'08.978"N	80°46'31.785"W	1.22	196.842	0.04	0.04	7.60	
450.00	0.160	196.360	450.00	-1.00	-1.23	-0.37	1703895.85	14284289.36	39°20'08.978"N	80°46'31.785"W	1.29	196.768	0.04	0.04	7.60	
475.00	0.130	220.870	475.00	-1.04	-1.29	-0.40	1703895.82	14284289.31	39°20'08.977"N	80°46'31.785"W	1.35	197.249	0.27	-0.12	98.04	
500.00	0.100	245.390	500.00	-1.06	-1.32	-0.44	1703895.78	14284289.28	39°20'08.977"N	80°46'31.786"W	1.39	198.366	0.23	-0.12	98.08	
525.00	0.090	253.720	525.00	-1.06	-1.33	-0.48	1703895.74	14284289.26	39°20'08.977"N	80°46'31.786"W	1.42	199.684	0.07	-0.04	33.32	
550.00	0.090	261.840	550.00	-1.05	-1.34	-0.52	1703895.71	14284289.26	39°20'08.977"N	80°46'31.787"W	1.44	201.009	0.05	0.00	32.48	
573.00	0.070	245.300	573.00	-1.05	-1.35	-0.55	1703895.67	14284289.25	39°20'08.977"N	80°46'31.787"W	1.46	202.014	0.13	-0.09	-71.91	
687.00	1.400	110.440	686.99	-1.99	-1.87	0.70	1703896.92	14284289.73	39°20'08.972"N	80°46'31.771"W	1.99	159.571	1.27	1.17	-118.30	Byrodatta SS Gyro <12-1/4"> (57'3")(687'-876')
737.00	1.890	106.580	736.97	-2.92	-2.32	2.06	1703898.28	14284288.28	39°20'08.967"N	80°46'31.754"W	3.10	138.370	1.00	0.98	-7.72	
787.00	2.660	107.150	786.93	-4.17	-2.89	3.96	1703900.18	14284287.71	39°20'08.961"N	80°46'31.730"W	4.90	126.171	1.54	1.54	1.14	
837.00	3.710	106.530	836.85	-5.91	-3.70	6.62	1703902.83	14284286.90	39°20'08.953"N	80°46'31.696"W	7.58	119.184	2.10	2.10	-1.24	
876.00	4.550	98.340	875.75	-7.48	-4.28	9.36	1703905.57	14284286.32	39°20'08.947"N	80°46'31.661"W	10.29	114.574	2.63	2.15	-21.00	
921.00	5.460	95.440	920.57	-9.38	-4.74	13.25	1703909.47	14284285.86	39°20'08.943"N	80°46'31.611"W	14.08	109.681	2.10	2.02	-6.44	WFT EM <12-1/4"> (876')(921'-2504')
1016.00	7.060	89.100	1015.01	-13.58	-5.08	23.59	1703919.80	14284285.52	39°20'08.939"N	80°46'31.480"W	24.13	102.146	1.83	1.68	-6.67	
1110.00	8.420	91.810	1108.15	-18.45	-5.20	36.25	1703932.45	14284285.40	39°20'08.938"N	80°46'31.319"W	36.62	98.170	1.50	1.45	2.88	



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Edgar Unit 2H AWP Proj: 18156'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Edgar Unit 2H
Field	Doddridge	Wellbore	Edgar Unit 2H AWB
Facility	Alexander Pad		

WELLPATH DATA (229 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 (°/100ft)	Comments
1204.00	8.650	90.830	1201.11	-23.99	-5.52	50.19	1703946.39	14284285.08	39°20'08.934"N	80°46'31.141"W	50.50	96.280	0.29	0.24	-1.04	
1298.00	9.400	88.180	1293.94	-29.41	-5.38	64.93	1703961.13	14284285.22	39°20'08.935"N	80°46'30.954"W	65.16	94.738	0.91	0.80	-2.82	
1392.00	10.390	90.980	1386.54	-35.39	-5.28	81.08	1703977.27	14284285.32	39°20'08.936"N	80°46'30.748"W	81.25	93.728	1.17	1.05	2.98	
1487.00	11.050	95.680	1479.89	-42.99	-6.33	98.71	1703994.89	14284284.27	39°20'08.925"N	80°46'30.524"W	98.91	93.670	1.15	0.69	4.95	
1581.00	10.980	96.040	1572.16	-51.40	-8.16	116.57	1704012.75	14284282.44	39°20'08.906"N	80°46'30.297"W	116.86	94.006	0.10	-0.07	0.38	
1676.00	10.870	92.230	1665.44	-59.36	-9.47	134.52	1704030.69	14284281.14	39°20'08.893"N	80°46'30.068"W	134.85	94.025	0.77	-0.12	-4.01	
1770.00	11.530	92.800	1757.64	-67.96	-10.27	152.76	1704048.92	14284280.33	39°20'08.885"N	80°46'29.836"W	153.11	93.846	0.71	0.70	0.61	
1865.00	11.450	91.170	1850.74	-74.68	-10.93	171.67	1704067.82	14284279.68	39°20'08.878"N	80°46'29.596"W	172.02	93.641	0.35	-0.08	-1.72	
1959.00	10.660	89.060	1943.00	-81.50	-10.97	189.69	1704085.84	14284279.63	39°20'08.877"N	80°46'29.366"W	190.01	93.311	0.94	-0.84	-2.24	
2053.00	10.480	94.150	2035.40	-88.42	-11.45	206.91	1704103.05	14284279.15	39°20'08.872"N	80°46'29.147"W	207.23	93.167	1.01	-0.19	5.41	
2147.00	10.600	93.750	2127.82	-95.97	-12.63	224.07	1704120.20	14284277.97	39°20'08.860"N	80°46'28.929"W	224.42	93.227	1.05	0.13	-0.43	
2242.00	12.180	93.910	2220.94	-104.17	-13.89	242.79	1704138.91	14284276.71	39°20'08.847"N	80°46'28.691"W	243.18	93.274	1.66	1.66	0.17	
2336.00	10.680	93.590	2313.08	-112.29	-15.11	261.37	1704157.49	14284275.49	39°20'08.834"N	80°46'28.454"W	261.81	93.309	1.60	-1.60	-0.34	
2431.00	8.740	89.050	2406.71	-118.71	-15.54	277.38	1704173.49	14284275.06	39°20'08.830"N	80°46'28.250"W	277.81	93.207	2.19	-2.04	-4.78	
2504.00	9.440	87.880	2478.80	-122.76	-15.23	288.91	1704185.01	14284275.98	39°20'08.832"N	80°46'28.104"W	289.31	93.017	0.99	0.96	-1.60	
2660.00	9.940	89.320	2632.57	-132.04	-14.60	315.15	1704211.25	14284276.01	39°20'08.838"N	80°46'27.770"W	315.49	92.652	0.36	0.32	0.92	WFT EM <-8-3/4"> (2504')(2660-6533)
2765.00	10.420	93.830	2726.07	-138.79	-15.07	331.92	1704228.01	14284275.53	39°20'08.833"N	80°46'27.556"W	332.27	92.600	0.98	0.51	4.75	
2849.00	10.340	92.920	2818.54	-146.07	-16.07	348.63	1704244.91	14284274.53	39°20'08.823"N	80°46'27.341"W	349.20	92.638	0.19	-0.09	-0.97	
2943.00	10.250	91.980	2911.02	-153.05	-16.79	365.61	1704261.69	14284273.82	39°20'08.815"N	80°46'27.127"W	366.00	92.629	0.20	-0.10	-1.00	
3038.00	11.340	95.490	3004.34	-160.82	-17.97	383.36	1704279.43	14284272.63	39°20'08.803"N	80°46'26.902"W	383.78	92.684	1.34	1.15	3.69	
3132.00	11.230	94.400	3096.52	-169.18	-19.56	401.68	1704297.75	14284271.05	39°20'08.787"N	80°46'26.668"W	402.16	92.788	0.26	-0.12	-1.16	
3231.00	10.800	91.020	3193.70	-177.12	-20.46	420.57	1704316.62	14284270.14	39°20'08.770"N	80°46'26.428"W	421.07	92.786	0.78	-0.43	-3.41	
3325.00	10.970	93.630	3286.01	-184.46	-21.19	438.30	1704334.35	14284269.42	39°20'08.770"N	80°46'26.202"W	438.81	92.768	0.55	0.18	2.78	
3420.00	10.470	93.780	3379.35	-192.15	-22.33	455.94	1704351.98	14284268.28	39°20'08.758"N	80°46'25.978"W	456.48	92.804	0.53	-0.53	0.16	
3514.00	10.200	91.930	3471.83	-199.26	-23.17	472.78	1704368.81	14284267.43	39°20'08.749"N	80°46'25.764"W	473.34	92.806	0.46	-0.29	-1.97	
3608.00	10.690	92.840	3564.27	-206.33	-23.88	489.80	1704385.83	14284266.72	39°20'08.742"N	80°46'25.547"W	490.38	92.792	0.55	0.52	0.97	
3703.00	10.230	90.640	3657.69	-213.30	-24.42	507.04	1704403.06	14284266.19	39°20'08.736"N	80°46'25.328"W	507.63	92.757	0.64	-0.48	-2.32	
3798.00	10.350	93.230	3751.16	-220.21	-24.99	523.99	1704420.01	14284265.62	39°20'08.730"N	80°46'25.112"W	524.59	92.731	0.50	0.13	2.73	
3893.00	10.230	91.700	3844.64	-227.26	-25.72	540.95	1704436.95	14284264.89	39°20'08.722"N	80°46'24.896"W	541.56	92.722	0.31	-0.13	-1.61	
3988.00	10.290	93.230	3938.12	-234.30	-26.45	557.85	1704453.85	14284264.16	39°20'08.715"N	80°46'24.681"W	558.48	92.715	0.29	0.06	1.61	

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Edgar Unit 2H AWP Proj: 18156'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Edgar Unit 2H
Field	Doddridge	Wellbore	Edgar Unit 2H AWB
Facility	Alexander Pad		

WELLPATH DATA (229 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
4082.00	10.670	91.360	4030.55	-241.35	-27.13	574.93	1704470.92	14284263.48	39°20'08.708"N	80°46'24.464"W	575.57	92.702	0.54	0.40	-1.99	
4176.00	11.050	92.500	4122.87	-248.56	-27.73	592.63	1704488.62	14284262.88	39°20'08.701"N	80°46'24.239"W	593.28	92.679	0.46	0.40	1.21	
4270.00	10.230	86.480	4215.25	-254.97	-27.61	609.96	1704505.94	14284263.00	39°20'08.702"N	80°46'24.018"W	610.59	92.592	1.47	-0.87	-6.40	
4364.00	10.380	90.580	4307.74	-260.89	-27.18	626.76	1704522.74	14284263.43	39°20'08.706"N	80°46'23.804"W	627.35	92.483	0.80	0.16	4.36	
4458.00	11.060	92.980	4400.10	-267.97	-27.74	644.24	1704540.20	14284262.87	39°20'08.700"N	80°46'23.582"W	644.83	92.465	0.87	0.72	2.55	
4553.00	10.540	89.200	4493.41	-274.99	-28.09	662.02	1704557.98	14284262.52	39°20'08.696"N	80°46'23.355"W	662.52	92.430	0.92	-0.55	-3.98	
4647.00	10.990	88.870	4588.76	-281.32	-27.79	679.58	1704575.53	14284262.82	39°20'08.699"N	80°46'23.132"W	680.15	92.342	0.48	0.48	-0.35	
4741.00	11.430	95.740	4677.97	-288.87	-28.55	697.81	1704593.75	14284262.06	39°20'08.691"N	80°46'22.900"W	698.39	92.343	1.49	0.47	7.31	
4835.00	11.080	96.070	4770.16	-297.48	-30.43	716.05	1704611.99	14284262.18	39°20'08.672"N	80°46'22.668"W	716.70	92.434	0.38	-0.37	7.31	
4930.00	10.560	94.010	4863.47	-305.62	-32.01	733.82	1704629.74	14284258.60	39°20'08.656"N	80°46'22.442"W	734.51	92.498	0.88	-0.55	-2.17	
5024.00	11.010	92.090	4955.81	-313.09	-32.94	751.38	1704647.30	14284257.67	39°20'08.646"N	80°46'22.218"W	752.10	92.510	0.61	0.48	-2.04	
5119.00	10.200	91.580	5049.19	-320.18	-33.50	768.85	1704664.77	14284257.11	39°20'08.640"N	80°46'21.996"W	769.58	92.495	0.86	-0.85	-0.54	
5213.00	11.070	92.070	5141.57	-327.21	-34.06	786.19	1704682.10	14284256.55	39°20'08.634"N	80°46'21.775"W	786.93	92.480	0.93	0.93	0.52	
5307.00	11.320	91.840	5233.79	-334.65	-34.68	804.43	1704700.33	14284255.93	39°20'08.627"N	80°46'21.543"W	805.18	92.468	0.27	0.27	-0.24	
5401.00	11.280	90.230	5325.96	-341.88	-35.01	822.84	1704718.74	14284255.60	39°20'08.624"N	80°46'21.309"W	823.59	92.436	0.34	-0.04	-1.71	
5495.00	10.420	93.900	5418.28	-349.10	-35.63	840.52	1704736.41	14284254.98	39°20'08.617"N	80°46'21.084"W	841.27	92.427	1.17	-0.91	3.90	
5590.00	11.210	96.120	5511.60	-357.23	-37.20	858.27	1704754.15	14284253.42	39°20'08.601"N	80°46'20.858"W	859.08	92.482	0.94	0.83	2.34	
5684.00	11.150	94.400	5603.81	-365.60	-38.87	876.42	1704772.29	14284252.99	39°20'08.584"N	80°46'20.627"W	877.28	92.539	0.36	-0.06	-1.83	
5779.00	11.240	93.220	5697.00	-373.66	-40.09	894.82	1704790.69	14284252.52	39°20'08.572"N	80°46'20.393"W	895.72	92.565	0.26	0.09	-1.24	
5873.00	11.780	92.520	5789.11	-381.57	-41.03	913.55	1704809.41	14284249.59	39°20'08.562"N	80°46'20.155"W	914.48	92.571	0.59	0.57	-0.74	
5967.00	12.150	90.800	5881.07	-389.41	-41.59	933.03	1704828.88	14284249.03	39°20'08.556"N	80°46'19.907"W	933.96	92.552	0.55	0.39	-1.83	
6062.00	11.770	90.800	5974.01	-397.07	-41.86	952.72	1704848.56	14284248.75	39°20'08.553"N	80°46'19.656"W	953.64	92.516	0.40	-0.40	0.00	
6156.00	11.590	89.980	6066.06	-404.35	-41.99	971.75	1704867.58	14284248.62	39°20'08.551"N	80°46'19.414"W	972.65	92.474	0.26	-0.19	-0.87	
6201.00	11.650	82.040	6110.14	-407.16	-41.36	980.77	1704876.60	14284249.25	39°20'08.557"N	80°46'19.299"W	981.64	92.415	3.55	0.13	-17.64	
6251.00	11.800	59.710	6159.13	-407.66	-38.08	990.19	1704886.01	14284252.53	39°20'08.569"N	80°46'19.179"W	990.92	92.203	9.03	0.30	-44.66	
6296.00	13.010	44.290	6203.08	-404.97	-32.14	997.70	1704893.52	14284258.48	39°20'08.648"N	80°46'19.084"W	998.22	91.845	7.81	2.69	-34.27	
6345.00	16.760	32.480	6250.44	-398.66	-22.22	1005.35	1704901.17	14284268.38	39°20'08.745"N	80°46'18.986"W	1005.59	91.266	9.81	7.65	-24.10	
6390.00	18.630	18.950	6293.33	-389.48	-9.94	1011.17	1704906.99	14284280.66	39°20'08.867"N	80°46'18.911"W	1011.22	90.563	10.01	4.16	-30.07	
6439.00	20.460	6.340	6339.53	-376.03	5.98	1014.66	1704910.48	14284296.57	39°20'09.024"N	80°46'18.866"W	1014.68	89.662	9.36	3.73	-25.73	
6484.00	19.020	359.250	6381.89	-362.29	21.13	1015.43	1704911.25	14284311.72	39°20'09.174"N	80°46'18.856"W	1015.65	88.808	6.20	-3.20	-15.76	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #02
Operator	ANTERO RESOURCES CORPORATION	Well	Edgar Unit 2H
Area	Doddridge Co., WV	Wellbore	Edgar Unit 2H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (229 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
6553.00	21.920	359.150	6427.79	-346.32	38.26	1015.19	1704911.01	14284328.85	39°20'09.343"N	80°46'18.859"W	1015.91	87.841	5.92	5.92	-0.20	
6553.00†	23.896	0.851	6446.21	-339.11	46.05	1015.20	1704911.01	14284336.63	39°20'09.420"N	80°46'18.858"W	1016.24	87.403	10.42	9.88	8.51	BHI AT Curve <8-1/2"> (6553')(6584'.18131')
6584.00	26.990	3.020	6474.20	-326.95	59.35	1015.66	1704911.48	14284349.93	39°20'09.551"N	80°46'18.852"W	1017.39	86.656	10.42	9.98	7.00	
6645.00	29.820	0.670	6527.85	-300.43	88.35	1016.57	1704912.38	14284378.91	39°20'09.838"N	80°46'18.840"W	1020.40	85.033	4.99	4.64	-3.85	
6692.00	32.910	356.330	6567.99	-277.53	112.79	1015.89	1704911.70	14284403.34	39°20'10.080"N	80°46'18.847"W	1022.13	83.665	8.14	6.57	-9.23	
6740.00	36.890	353.740	6607.35	-251.29	140.13	1013.48	1704909.30	14284430.67	39°20'10.350"N	80°46'18.877"W	1023.12	82.128	8.85	8.29	-5.40	
6787.00	40.880	353.280	6643.92	-222.87	169.44	1010.14	1704905.96	14284459.97	39°20'10.640"N	80°46'18.919"W	1024.25	80.478	8.51	8.49	-0.98	
6834.00	45.430	352.200	6678.20	-191.80	201.32	1006.07	1704901.89	14284491.84	39°20'10.955"N	80°46'18.970"W	1026.01	78.684	9.81	9.68	-2.30	
6881.00	48.740	351.110	6710.20	-158.37	235.37	1001.06	1704896.89	14284528.87	39°20'11.292"N	80°46'19.032"W	1028.36	76.769	7.24	7.04	-2.32	
6928.00	51.460	349.900	6740.35	-123.18	270.93	995.11	1704890.93	14284561.42	39°20'11.643"N	80°46'19.107"W	1031.33	74.770	6.11	5.79	-2.57	
6975.00	54.520	344.960	6768.65	-86.19	307.53	986.91	1704882.74	14284598.00	39°20'12.005"N	80°46'19.210"W	1033.72	72.693	10.62	6.51	-10.51	
6995.00†	56.044	343.195	6780.04	-69.85	323.33	982.40	1704878.23	14284613.80	39°20'12.161"N	80°46'19.267"W	1034.24	71.782	10.52	7.62	-8.83	Burkett: 6995' MD
7022.00	58.140	340.910	6794.71	-47.24	344.89	975.41	1704871.25	14284635.35	39°20'12.375"N	80°46'19.355"W	1034.59	70.527	10.52	7.76	-8.46	
7057.00†	61.729	338.340	6812.24	-16.97	373.27	964.86	1704860.70	14284663.72	39°20'12.655"N	80°46'19.488"W	1034.55	68.850	12.06	10.25	-7.34	July: 7057' MD
7069.00	62.970	337.500	6817.81	-6.34	383.12	960.86	1704856.70	14284673.57	39°20'12.753"N	80°46'19.539"W	1034.43	68.261	12.06	10.34	-7.00	
7117.00	66.120	337.140	6838.44	36.99	423.11	944.15	1704840.00	14284713.54	39°20'13.148"N	80°46'19.750"W	1034.62	65.861	6.60	6.56	-0.75	
7141.00†	67.366	336.996	6847.92	59.04	443.41	935.56	1704833.41	14284733.84	39°20'13.349"N	80°46'19.859"W	1035.32	64.641	5.22	5.19	-0.60	Hamilton: 7141' MD
7163.00†	68.508	336.868	6856.18	79.42	462.17	927.57	1704823.42	14284752.59	39°20'13.535"N	80°46'19.960"W	1036.33	63.515	5.22	5.19	-0.59	Marcellus POE: 7163' MD
7164.00	68.560	336.860	6856.54	80.35	463.03	927.20	1704823.06	14284753.44	39°20'13.543"N	80°46'19.965"W	1036.39	63.463	5.22	5.19	-0.59	
7211.00	73.050	337.750	6871.99	124.73	503.97	910.09	1704805.95	14284794.37	39°20'13.949"N	80°46'20.181"W	1040.31	61.024	9.72	9.55	1.89	
7258.00	76.590	336.250	6884.30	170.08	546.02	893.10	1704788.97	14284836.40	39°20'14.365"N	80°46'20.396"W	1046.79	58.559	7.60	7.53	1.06	
7306.00	81.730	337.360	6893.32	217.20	589.65	875.29	1704771.17	14284880.02	39°20'14.796"N	80°46'20.621"W	1055.38	56.033	10.86	10.71	-1.85	
7353.00	86.120	337.070	6898.30	263.93	632.73	857.20	1704753.08	14284923.08	39°20'15.222"N	80°46'20.850"W	1065.43	53.567	9.36	9.34	-0.62	
7400.00	90.400	337.020	6899.72	310.89	675.98	838.88	1704734.77	14284966.31	39°20'15.650"N	80°46'21.082"W	1077.34	51.138	9.11	9.11	-0.11	
7494.00	90.770	337.090	6898.76	404.87	762.54	802.24	1704698.14	14285052.83	39°20'16.507"N	80°46'21.546"W	1106.82	46.453	0.40	0.39	0.07	
7589.00	90.770	336.200	6897.49	499.84	849.75	764.58	1704660.50	14285140.01	39°20'17.370"N	80°46'22.022"W	1143.09	41.980	0.94	0.00	-0.94	
7683.00	90.710	336.870	6896.27	593.80	935.96	727.15	1704623.09	14285226.19	39°20'18.223"N	80°46'22.496"W	1185.24	37.844	0.72	-0.06	0.71	
7778.00	90.710	337.950	6895.10	688.79	1023.67	690.66	1704586.61	14285313.86	39°20'19.090"N	80°46'22.957"W	1234.87	34.007	1.14	0.00	1.14	
7873.00	90.740	337.690	6893.89	793.78	1111.63	654.80	1704550.76	14285401.79	39°20'19.961"N	80°46'23.411"W	1290.15	30.500	0.28	0.03	-0.27	
7968.00	90.740	336.510	6892.69	878.75	1198.81	617.08	1704513.06	14285488.93	39°20'20.823"N	80°46'23.888"W	1348.30	27.237	2.29	-0.03	-2.29	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddrige Co., WV	Well	Edgar Unit 2H
Field	Doddrige	Wellbore	Edgar Unit 2H AWB
Facility	Alexander Pad		

WELLPATH DATA (229 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
8062.00	90.650	331.760	6891.58	972.46	1283.01	575.35	1704471.34	14285573.09	39°20'21.657"N	80°46'24.417"W	1406.10	24.153	3.99	-0.06	-3.99	
8157.00	90.550	332.120	6890.58	1066.94	1366.84	530.66	1704426.67	14285566.89	39°20'22.486"N	80°46'24.983"W	1486.23	21.218	0.39	-0.11	0.38	
8251.00	90.680	334.330	6889.57	1160.62	1450.75	488.32	1704384.35	14285740.77	39°20'23.317"N	80°46'25.519"W	1530.73	18.603	2.35	0.14	2.35	
8346.00	90.340	337.610	6888.73	1255.54	1537.50	449.64	1704345.68	14285827.49	39°20'24.175"N	80°46'26.009"W	1601.90	16.302	3.47	-0.36	3.45	
8440.00	88.770	340.670	6889.46	1349.51	1625.32	416.18	1704312.23	14285915.27	39°20'25.044"N	80°46'26.432"W	1677.76	14.362	3.66	-1.67	3.26	
8534.00	90.740	345.190	6889.86	1443.12	1715.15	388.59	1704284.66	14286005.07	39°20'25.932"N	80°46'26.780"W	1758.62	12.766	5.25	2.10	4.81	
8630.00	90.830	342.900	6888.54	1538.55	1807.44	362.21	1704258.28	14286097.32	39°20'26.842"N	80°46'27.113"W	1843.37	11.332	2.39	0.09	-2.39	
8725.00	90.680	334.540	6887.29	1633.45	1895.88	327.76	1704232.85	14286185.72	39°20'27.720"N	80°46'27.548"W	1924.00	9.808	8.80	-0.16	-8.80	
8819.00	90.860	330.940	6886.02	1727.04	1979.41	284.72	1704180.83	14286269.22	39°20'28.577"N	80°46'28.094"W	1999.79	8.185	3.83	0.19	-3.83	
8915.00	90.650	333.830	6884.76	1822.58	2064.46	240.23	1704136.35	14286354.24	39°20'29.388"N	80°46'28.657"W	2078.39	6.637	3.02	-0.22	3.01	
9010.00	90.650	333.160	6883.68	1917.29	2149.47	197.84	1704093.98	14286439.21	39°20'30.230"N	80°46'29.194"W	2158.56	5.259	0.71	0.00	-0.71	
9105.00	89.570	332.430	6883.50	2011.91	2233.96	154.40	1704050.56	14286523.67	39°20'31.066"N	80°46'29.744"W	2239.29	3.954	1.37	-1.14	-0.77	
9200.00	90.650	338.030	6883.32	2106.76	2320.18	114.62	1704010.79	14286609.86	39°20'31.919"N	80°46'30.248"W	2323.01	2.828	6.00	1.14	5.89	
9295.00	90.580	338.640	6882.30	2201.76	2408.47	79.55	1703975.74	14286698.11	39°20'32.792"N	80°46'30.691"W	2409.78	1.892	0.65	-0.07	0.64	
9390.00	90.120	337.350	6881.72	2296.75	2496.54	43.95	1703940.16	14286786.15	39°20'33.664"N	80°46'31.142"W	2496.93	1.009	1.44	-0.48	-1.36	
9485.00	90.830	339.920	6880.93	2391.73	2585.00	9.35	1703905.57	14286874.57	39°20'34.539"N	80°46'31.579"W	2585.02	0.207	2.81	0.75	2.71	
9580.00	90.030	342.640	6880.22	2486.56	2674.97	-21.14	1703875.09	14286964.50	39°20'35.429"N	80°46'31.964"W	2675.05	359.547	2.98	-0.84	2.86	
9674.00	90.090	343.260	6880.12	2580.19	2764.83	-48.70	1703847.54	14287054.33	39°20'36.318"N	80°46'32.312"W	2765.26	358.991	0.66	0.06	0.66	
9769.00	89.750	343.990	6880.25	2674.72	2855.98	-75.48	1703820.77	14287145.44	39°20'37.219"N	80°46'32.650"W	2856.98	358.486	0.85	-0.36	0.77	
9864.00	90.030	342.730	6880.43	2769.29	2947.00	-102.68	1703793.58	14287236.43	39°20'38.119"N	80°46'32.994"W	2948.79	358.004	1.36	0.29	-1.33	
9959.00	90.180	339.570	6880.26	2864.12	3036.89	-133.37	1703762.90	14287326.28	39°20'39.009"N	80°46'33.382"W	3039.82	357.485	3.33	0.16	-3.33	
10053.00	90.030	337.120	6880.09	2958.11	3124.25	-168.06	1703728.23	14287413.61	39°20'39.873"N	80°46'33.820"W	3128.77	356.921	2.61	-0.16	-2.61	
10148.00	90.030	334.940	6880.04	3053.06	3211.05	-206.65	1703689.65	14287500.37	39°20'40.732"N	80°46'34.309"W	3217.70	356.318	2.29	0.00	-2.29	
10242.00	90.000	336.640	6880.01	3146.99	3296.78	-245.20	1703651.12	14287586.07	39°20'41.580"N	80°46'34.797"W	3305.89	355.746	1.81	-0.03	1.81	
10336.00	90.150	342.170	6879.89	3240.92	3384.74	-278.25	1703618.08	14287673.99	39°20'42.450"N	80°46'35.215"W	3396.16	355.300	5.89	0.16	5.88	
10430.00	90.120	343.190	6879.67	3334.59	3474.48	-306.23	1703590.11	14287763.69	39°20'43.338"N	80°46'35.668"W	3487.95	354.963	1.09	-0.03	1.09	
10524.00	90.250	342.720	6879.36	3428.23	3564.35	-333.79	1703562.57	14287853.53	39°20'44.227"N	80°46'35.916"W	3579.94	354.650	0.52	0.14	-0.50	
10618.00	90.220	339.940	6878.98	3522.05	3653.39	-363.87	1703532.49	14287942.54	39°20'45.108"N	80°46'36.296"W	3671.47	354.312	2.96	-0.03	-2.96	
10712.00	90.030	340.440	6878.77	3615.98	3741.83	-395.73	1703500.65	14288030.94	39°20'45.982"N	80°46'36.699"W	3762.70	353.963	0.57	-0.20	0.53	
10805.00	90.030	339.310	6878.72	3708.92	3829.15	-427.73	1703468.66	14288118.22	39°20'46.846"N	80°46'37.103"W	3852.96	353.626	1.22	0.00	-1.22	



Actual Wellpath Report

Edgar Unit 2H AWP Proj: 18156'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Edgar Unit 2H
Field	Doddridge	Wellbore	Edgar Unit 2H AWB
Facility	Alexander Pad		

WELLPATH DATA (229 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
10899.00	90.120	337.130	6878.60	3802.91	3916.43	-482.60	1703433.80	14288205.47	39°20'47.710"N	80°46'37.545"W	3943.66	353.264	2.32	0.10	-2.32	
10994.00	90.150	337.810	6878.38	3897.91	4004.18	-499.00	1703397.41	14288293.19	39°20'48.578"N	80°46'38.005"W	4035.15	352.896	0.72	0.03	0.72	
11089.00	90.120	336.390	6878.15	3992.90	4091.69	-535.97	1703360.66	14288380.66	39°20'49.444"N	80°46'38.473"W	4126.65	352.537	1.50	-0.03	-1.49	
11184.00	90.000	332.380	6878.05	4087.70	4177.34	-577.03	1703319.42	14288466.27	39°20'50.291"N	80°46'38.993"W	4217.00	352.135	4.22	-0.13	-4.22	
11278.00	90.180	333.120	6877.91	4181.32	4260.90	-620.07	1703276.39	14288549.81	39°20'51.118"N	80°46'39.538"W	4305.79	351.720	0.81	0.19	0.79	
11372.00	89.780	333.680	6877.94	4275.02	4344.95	-662.16	1703234.32	14288633.83	39°20'51.950"N	80°46'40.071"W	4395.12	351.335	0.73	-0.43	0.60	
11467.00	90.090	332.000	6878.05	4369.65	4429.48	-705.53	1703190.98	14288718.31	39°20'52.786"N	80°46'40.621"W	4485.31	350.950	1.80	0.33	-1.77	
11562.00	90.000	330.410	6877.97	4464.00	4512.73	-751.28	1703145.24	14288801.53	39°20'53.610"N	80°46'41.200"W	4574.84	350.548	1.68	-0.09	-1.67	
11657.00	89.780	333.350	6878.15	4558.46	4596.50	-796.05	1703100.48	14288885.27	39°20'54.439"N	80°46'41.768"W	4664.93	350.175	3.10	-0.23	3.09	
11751.00	90.060	337.360	6878.29	4652.35	4681.92	-835.24	1703061.31	14288970.66	39°20'55.285"N	80°46'42.264"W	4755.84	349.885	4.28	0.30	4.27	
11846.00	90.120	341.570	6878.14	4747.29	4770.87	-888.56	1703028.01	14289059.57	39°20'56.165"N	80°46'42.885"W	4849.28	349.682	4.43	0.06	4.43	
11940.00	90.220	341.450	6877.86	4841.10	4860.01	-930.38	1702988.21	14289148.68	39°20'57.046"N	80°46'43.062"W	4942.35	349.527	0.17	0.11	-0.13	
12035.00	90.180	339.160	6877.53	4936.01	4949.45	-980.38	1702946.03	14289238.08	39°20'57.931"N	80°46'43.467"W	5036.14	349.354	2.41	-0.04	-2.41	
12128.00	90.000	339.020	6877.38	5028.99	5036.32	-963.58	1702903.03	14289324.92	39°20'58.791"N	80°46'43.886"W	5127.67	349.169	0.25	-0.19	-0.15	
12223.00	90.090	337.690	6877.31	5123.99	5124.62	-998.62	1702868.00	14289413.19	39°20'59.684"N	80°46'44.330"W	5221.02	348.973	1.40	0.09	-1.40	
12317.00	90.150	340.360	6877.11	5217.96	5212.39	-1032.26	1702834.37	14289500.91	39°21'00.532"N	80°46'44.755"W	5313.62	348.798	2.84	0.06	2.84	
12411.00	90.220	343.590	6876.80	5311.71	5301.76	-1061.34	1702800.25	14289590.25	39°21'01.416"N	80°46'45.123"W	5406.95	348.680	3.44	0.07	3.44	
12506.00	90.490	344.710	6876.22	5408.15	5393.15	-1087.29	1702768.36	14289681.60	39°21'02.320"N	80°46'45.450"W	5501.66	348.602	1.21	0.28	1.18	
12600.00	90.430	340.490	6875.46	5499.81	5482.82	-1115.39	1702731.27	14289771.24	39°21'03.207"N	80°46'45.805"W	5595.13	348.501	4.49	-0.06	-4.49	
12694.00	90.460	339.090	6874.73	5589.75	5571.03	-1147.86	1702748.81	14289859.41	39°21'04.080"N	80°46'46.216"W	5688.05	348.358	1.49	0.03	-1.49	
12788.00	90.400	336.950	6874.03	5687.74	5658.19	-1183.04	1702713.65	14289946.54	39°21'04.942"N	80°46'46.661"W	5780.55	348.190	2.28	-0.06	-2.28	
12882.00	90.550	341.340	6873.25	5781.70	5746.01	-1216.50	1702680.21	14290034.32	39°21'05.811"N	80°46'47.084"W	5873.37	348.046	4.67	0.16	4.67	
12975.00	90.920	342.000	6872.05	5874.49	5834.28	-1245.74	1702650.97	14290122.56	39°21'06.684"N	80°46'47.453"W	5965.79	347.947	0.81	0.40	0.71	
13069.00	90.400	337.610	6870.97	5968.41	5922.47	-1278.18	1702618.55	14290210.72	39°21'07.556"N	80°46'47.864"W	6058.83	347.821	4.70	-0.55	-4.67	
13163.00	90.400	337.270	6870.31	6062.40	6009.28	-1314.25	1702582.50	14290297.49	39°21'08.415"N	80°46'48.320"W	6151.31	347.663	0.36	0.00	-0.36	
13257.00	90.370	339.800	6869.68	6156.39	6096.75	-1348.64	1702548.12	14290384.92	39°21'09.281"N	80°46'48.755"W	6244.13	347.527	2.69	-0.03	2.69	
13350.00	90.890	338.370	6868.66	6249.36	6183.61	-1381.84	1702514.93	14290471.75	39°21'10.140"N	80°46'49.175"W	6336.13	347.403	1.64	0.56	-1.54	
13445.00	90.430	332.340	6867.56	6344.21	6269.91	-1421.43	1702475.36	14290558.02	39°21'10.994"N	80°46'49.676"W	6429.02	347.227	6.37	-0.48	-6.35	
13538.00	90.030	331.480	6867.19	6436.70	6351.96	-1465.22	1702431.58	14290640.03	39°21'11.806"N	80°46'50.231"W	6518.76	347.011	1.02	-0.43	-0.92	
13632.00	90.340	331.930	6866.89	6530.15	6434.73	-1509.78	1702387.05	14290722.77	39°21'12.625"N	80°46'50.796"W	6609.47	346.796	0.58	0.33	0.48	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #02
ANTERO RESOURCES CORPORATION	Well	Edgar Unit 2H
Doddridge Co., WV	Wellbore	Edgar Unit 2H AWB
Doddridge		
Alexander Pad		

WELLPATH DATA (229 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
13726.00	89.820	332.270	6866.76	6623.67	6517.80	-1553.76	1702343.08	14290805.81	39°21'13.447"N	80°46'51.353"W	6700.44	346.592	0.66	-0.55	0.36	
13821.00	90.650	337.850	6866.37	6718.51	6603.91	-1593.80	1702303.05	14290891.88	39°21'14.299"N	80°46'51.860"W	6793.51	346.432	5.94	0.87	5.87	
13914.00	91.110	341.470	6864.94	6811.44	6691.08	-1626.12	1702270.75	14290979.02	39°21'15.161"N	80°46'52.269"W	6885.84	346.340	3.92	0.49	3.89	
14008.00	90.550	338.840	6863.58	6905.35	6779.48	-1658.02	1702238.86	14291067.39	39°21'16.036"N	80°46'52.673"W	6979.28	346.257	2.86	-0.60	-2.80	
14103.00	90.220	335.810	6862.94	7000.33	6867.13	-1694.64	1702202.25	14291155.00	39°21'16.903"N	80°46'53.136"W	7073.13	346.138	3.21	-0.35	-3.19	
14198.00	90.830	339.310	6862.07	7095.31	6954.92	-1730.90	1702166.01	14291242.75	39°21'17.772"N	80°46'53.595"W	7167.07	346.024	3.74	0.64	3.68	
14293.00	90.890	340.970	6860.84	7190.22	7044.25	-1763.17	1702133.75	14291332.05	39°21'18.655"N	80°46'54.003"W	7261.56	345.948	1.75	0.06	1.75	
14387.00	90.580	339.700	6859.43	7284.13	7132.76	-1794.80	1702102.14	14291420.52	39°21'19.531"N	80°46'54.403"W	7355.10	345.876	1.39	-0.33	-1.35	
14482.00	91.200	341.930	6857.96	7378.99	7222.47	-1826.01	1702070.94	14291510.19	39°21'20.418"N	80°46'54.797"W	7449.72	345.812	2.44	0.65	2.35	
14576.00	90.250	342.220	6856.77	7472.73	7311.90	-1854.94	1702042.02	14291599.59	39°21'21.303"N	80°46'55.163"W	7543.52	345.765	1.06	-1.01	0.31	
14670.00	90.280	339.950	6856.33	7566.58	7400.81	-1885.41	1702011.56	14291688.47	39°21'22.182"N	80°46'55.548"W	7637.20	345.708	2.42	0.03	-2.41	
14765.00	90.580	339.520	6855.62	7661.53	7489.93	-1918.31	1701978.67	14291777.55	39°21'23.064"N	80°46'55.964"W	7731.69	345.634	0.55	0.32	-0.45	
14860.00	89.910	340.180	6855.21	7756.47	7579.11	-1951.03	1701945.96	14291866.70	39°21'23.946"N	80°46'56.378"W	7826.21	345.564	0.99	-0.71	0.69	
14955.00	90.220	338.200	6855.11	7851.45	7667.91	-1984.78	1701912.23	14291955.46	39°21'24.825"N	80°46'56.805"W	7920.62	345.488	2.11	0.33	-2.08	
15050.00	90.000	335.570	6854.92	7946.42	7755.28	-2022.08	1701874.95	14292042.79	39°21'25.689"N	80°46'57.277"W	8014.56	345.386	2.78	-0.23	-2.77	
15144.00	89.880	334.060	6855.02	8040.28	7840.34	-2062.08	1701834.97	14292127.82	39°21'26.531"N	80°46'57.784"W	8106.98	345.264	1.61	-0.13	-1.61	
15239.00	90.460	335.420	6854.74	8135.13	7926.25	-2102.61	1701794.44	14292213.70	39°21'27.381"N	80°46'58.297"W	8200.39	345.143	1.56	0.61	1.43	
15334.00	91.230	333.400	6853.34	8229.94	8011.92	-2143.64	1701753.43	14292299.33	39°21'28.228"N	80°46'58.817"W	8293.73	345.021	2.28	0.81	-2.13	
15429.00	91.570	335.110	6851.02	8324.72	8097.46	-2184.89	1701712.20	14292384.84	39°21'29.075"N	80°46'59.339"W	8387.05	344.900	1.83	0.36	1.80	
15524.00	91.510	337.420	6848.47	8419.64	8184.39	-2223.11	1701673.99	14292471.73	39°21'29.935"N	80°46'59.823"W	8480.94	344.804	2.43	-0.06	2.43	
15619.00	90.860	338.730	6846.50	8514.61	8272.50	-2258.58	1701638.54	14292559.81	39°21'30.806"N	80°47'00.272"W	8575.28	344.729	1.54	-0.68	1.38	
15714.00	90.000	338.800	6845.79	8609.60	8361.04	-2292.98	1701604.15	14292648.32	39°21'31.682"N	80°47'00.707"W	8669.76	344.664	0.91	-0.91	0.07	
15808.00	89.660	338.870	6846.07	8703.59	8448.70	-2326.92	1701570.22	14292735.94	39°21'32.550"N	80°47'01.137"W	8763.28	344.602	0.37	-0.36	0.07	
15903.00	90.000	335.500	6846.35	8798.56	8536.21	-2363.87	1701533.29	14292823.41	39°21'33.415"N	80°47'01.605"W	8857.46	344.521	3.72	0.36	-3.71	
15998.00	90.030	336.370	6846.32	8893.50	8622.90	-2402.72	1701494.46	14292910.07	39°21'34.273"N	80°47'02.097"W	8951.39	344.430	1.07	0.03	1.07	
16092.00	89.570	335.310	6846.65	8987.44	8708.66	-2441.19	1701456.00	14292995.80	39°21'35.122"N	80°47'02.584"W	9044.35	344.341	1.23	-0.49	-1.13	
16187.00	89.540	334.160	6847.39	9082.28	8794.57	-2481.74	1701415.47	14293081.67	39°21'35.972"N	80°47'03.097"W	9138.02	344.241	1.21	-0.03	-1.21	
16281.00	89.380	335.320	6848.28	9176.14	8879.58	-2521.84	1701375.38	14293166.64	39°21'36.813"N	80°47'03.605"W	9230.74	344.145	1.25	-0.17	1.23	
16375.00	89.020	333.270	6849.59	9269.93	8964.26	-2562.61	1701334.63	14293251.30	39°21'37.651"N	80°47'04.122"W	9323.35	344.046	2.21	-0.38	-2.18	
16469.00	89.450	337.410	6850.84	9363.81	9049.66	-2601.82	1701295.44	14293336.66	39°21'38.496"N	80°47'04.618"W	9416.25	343.960	4.43	0.46	4.40	



Actual Wellpath Report

Edgar Unit 2H AWP Proj: 18156'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Alexander Pad
Slot	Slot #02
Well	Edgar Unit 2H
Wellbore	Edgar Unit 2H AWB

WELLPATH DATA (229 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
16563.00	89.540	342.070	6851.67	9457.73	9137.82	-2634.36	1701262.91	14293424.78	39°21'39.368"N	80°47'05.030"W	9509.97	343.918	4.96	0.10	4.96	
16658.00	89.200	347.280	6852.72	9552.03	9229.40	-2659.46	1701237.82	142933516.33	39°21'40.274"N	80°47'05.347"W	9604.92	343.926	5.50	-0.36	5.48	
16753.00	89.320	349.050	6853.94	9645.50	9322.37	-2678.94	1701218.35	14293609.26	39°21'41.193"N	80°47'05.592"W	9699.66	343.967	1.87	0.13	1.86	
16848.00	89.260	347.010	6855.12	9739.01	9415.29	-2698.84	1701198.66	14293702.15	39°21'42.112"N	80°47'05.840"W	9794.41	344.006	2.15	-0.06	-2.15	
16943.00	89.540	345.690	6856.12	9832.98	9507.60	-2721.05	1701176.25	14293794.42	39°21'43.025"N	80°47'06.123"W	9889.32	344.029	1.42	0.29	-1.39	
17038.00	89.230	340.260	6857.14	9927.57	9598.40	-2748.86	1701148.46	14293885.18	39°21'43.923"N	80°47'06.474"W	9984.26	344.019	5.72	-0.33	-5.72	
17133.00	89.290	339.320	6858.36	10022.51	9687.54	-2781.67	1701115.65	14293974.29	39°21'44.805"N	80°47'07.374"W	10079.00	343.979	0.99	0.06	-0.99	
17228.00	89.320	333.090	6859.52	10117.41	9774.42	-2819.98	1701077.36	14294061.13	39°21'45.664"N	80°47'07.374"W	10173.08	343.907	6.56	0.03	-6.56	
17322.00	89.320	333.370	6860.63	10211.09	9858.34	-2862.32	1701035.04	14294145.02	39°21'46.495"N	80°47'07.910"W	10265.46	343.810	0.30	0.00	0.30	
17417.00	89.350	334.480	6861.74	10305.85	9943.66	-2904.07	1700993.30	14294230.31	39°21'47.339"N	80°47'08.439"W	10359.06	343.719	1.17	0.03	1.17	
17511.00	89.420	332.170	6862.75	10399.54	10027.65	-2946.26	1700951.13	14294314.26	39°21'48.170"N	80°47'08.974"W	10451.52	343.626	2.46	0.07	-2.46	
17606.00	89.940	334.550	6863.28	10494.23	10112.55	-2988.86	1700908.55	14294399.13	39°21'49.010"N	80°47'09.514"W	10545.00	343.534	2.56	0.55	2.51	
17701.00	89.880	336.940	6863.43	10589.16	10199.16	-3027.88	1700869.54	14294485.71	39°21'49.867"N	80°47'10.008"W	10639.12	343.465	2.52	-0.06	2.52	
17796.00	90.060	338.080	6863.47	10684.15	10286.93	-3064.22	1700833.22	14294573.44	39°21'50.735"N	80°47'10.468"W	10733.61	343.413	1.21	0.19	1.20	
17890.00	90.030	338.940	6863.40	10778.15	10374.40	-3098.65	1700798.80	14294660.87	39°21'51.601"N	80°47'10.904"W	10827.27	343.370	0.92	-0.03	0.91	
17985.00	90.030	338.430	6863.35	10873.14	10462.90	-3133.19	1700764.28	14294749.34	39°21'52.476"N	80°47'11.341"W	10921.96	343.329	0.54	0.00	-0.54	
18080.00	90.710	340.760	6862.74	10968.09	10551.93	-3166.30	1700731.17	14294838.34	39°21'53.357"N	80°47'11.760"W	11016.75	343.297	2.55	0.72	2.45	
18131.00	90.650	341.150	6862.13	11019.01	10600.14	-3182.95	1700714.54	14294886.52	39°21'53.834"N	80°47'11.970"W	11067.70	343.286	0.77	-0.12	0.76	
18156.00	90.650	341.150	6861.85	11043.97	10623.79	-3191.02	1700706.47	14294910.17	39°21'54.068"N	80°47'12.072"W	11092.68	343.282	0.00	0.00	0.00	Projected MD at TD: 18156'



Actual Wellpath Report

Edgar Unit 2H AWP Proj: 18156'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Edgar Unit 2H
Field	Doddridge	Wellbore	Edgar Unit 2H AWB
Facility	Alexander Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Edgar Unit 2H AWB Ref Wellpath: Edgar Unit 2H AWP Proj: 18156'

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	25.00	105.00	80.00	25.00	105.00	0.00	0.00	-0.16	0.01
17.5in Open Hole	105.00	585.10	480.10	105.00	585.10	-0.16	0.01	-1.36	-0.54
13.375in Casing Surface	25.00	585.10	560.10	25.00	585.10	0.00	0.00	-1.36	-0.54
12.24in Open Hole	585.10	2574.70	1989.60	585.10	2548.51	-1.36	-0.54	-14.86	300.63
9.625in Casing Intermediate	25.00	2574.70	2549.70	25.00	2548.51	0.00	0.00	-14.86	300.63
8.75in Open Hole	2574.70	6609.00	4034.30	2548.51	6496.36	-14.86	300.63	70.91	1016.16
8.5in Open Hole	6609.00	18156.00	11547.00	6496.36	6861.85	70.91	1016.16	10623.79	-3191.02
5.5in Casing Production	25.00	18156.00	18131.00	25.00	6861.85	0.00	0.00	10623.79	-3191.02

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Edgar Unit 2H POE Rev-2	6859.00	457.48	919.84	1704815.70	14284747.89	39°20'13.489"N	80°46'20.059"W	point
Edgar Unit 2H BHL Rev-2	6900.00	10594.53	-3193.60	1700703.89	14294880.92	39°21'53.778"N	80°47'12.106"W	point
Edgar Unit 2H LP Rev-1	6900.00	678.79	830.04	1704725.93	14284969.12	39°20'15.678"N	80°46'21.195"W	point



Actual Wellpath Report

Edgar Unit 2H AWP Proj: 18156'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Doddridge Co., WV	Well	Edgar Unit 2H
Field	Doddridge	Wellbore	Edgar Unit 2H AWB
Facility	Alexander Pad		

WELLPATH COMPOSITION - Ref Wellbore: Edgar Unit 2H AWB Ref Wellpath: Edgar Unit 2H AWP Proj: 18156'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	573.00	Gyrodata standard - Single-shot	01. Gyrodata SS Gyro <17-1/2"> (100'-573')	Edgar Unit 2H AWB
573.00	876.00	Gyrodata standard - Single-shot	02. Gyrodata SS Gyro <12-1/2"> (573')(687'-876')	Edgar Unit 2H AWB
876.00	2504.00	ISCWSA MWD, Rev. 4 (Standard)	03. WFT EM <12-1/4"> (876')(921'-2504')	Edgar Unit 2H AWB
2504.00	6533.00	ISCWSA MWD, Rev. 4 (Standard)	04. WFT EM <8-3/4"> (2504')(2660'-6533')	Edgar Unit 2H AWB
6533.00	18131.00	BHI AutoTrak Curve (Short)	05. BH AT Curve <8-1/2"> (6533')(6584'-18131')	Edgar Unit 2H AWB
18131.00	18156.00	Blind Drilling (std)	Projection to bit	Edgar Unit 2H AWB



Actual Wellpath Report

Edgar Unit 2H AWP Proj: 18156'
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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #02
ANTERO RESOURCES CORPORATION	Well	Edgar Unit 2H
Doddridge Co., WV	Wellbore	Edgar Unit 2H AWB
Doddridge		
Alexander Pad		

COMMENTS

Wellpath general comments

API: 47-017-06855-0000
 BHI Job #: 9195054
 Rig: Patterson 342
 Duration: 06/05/2018-06/09/2018
 Gyrodatta SS Gyro <17-1/2"> (100'-573')
 Gyrodatta SS Gyro <12-1/4"> (573')(687'-876')
 WFT EM <12-1/4"> (876')(921'-2504)
 WFT EM <8-3/4"> (2504')(2660'-6533')
 BHI AT Curve <8-1/2"> (6553')(6584'-18131')
 Burkett: 6995' MD
 Tully: 7057' MD
 Hamilton: 7141' MD
 Marcellus POE: 7163' MD
 Projected MD at TD: 18156'