



ANTERO RESOURCES CORPORATION

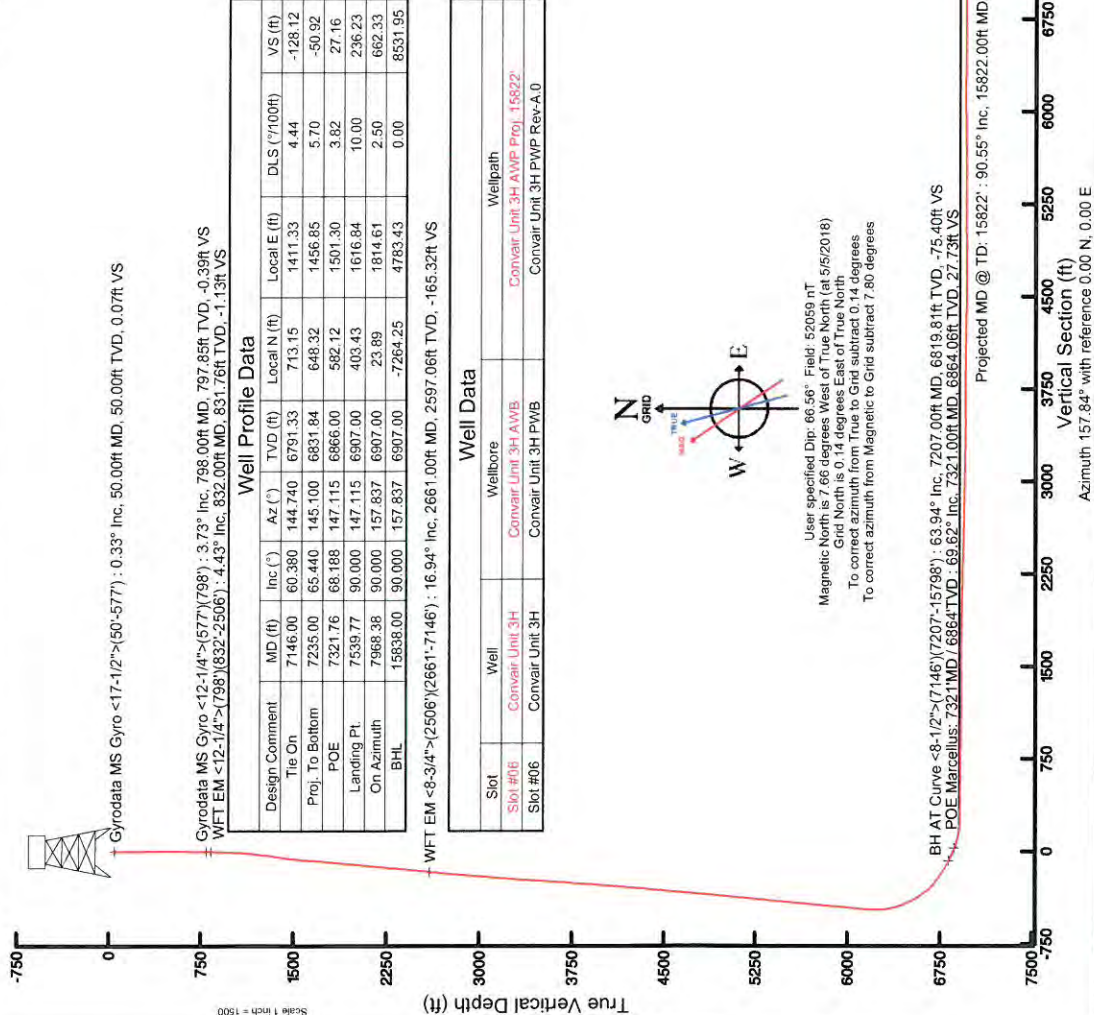
Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Alexander Pad

Slot: Slot #06
 Well: Convair Unit 3H
 Wellbore: Convair Unit 3H PWB



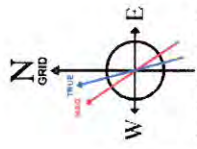
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Alexander Pad	1703908.855	39°20'08.720"N	80°46'31.620"W
Slot	Local N (ft)	Local E (US ft)	Longitude
Slot #06	-9.10	1703912.805	80°46'31.570"W
Comment	Convair Unit 3H	14284254.228	80°46'31.570"W
Patterson 342 (RKB) to Ground level (At Slot: Slot #06)			
Mean Sea Level to Ground level (At Slot: Slot #06)	25ft		
Patterson 342 (RKB) to Mean Sea Level	-118 ft		

Prior reference wellpath is Convair Unit 3H PWP Rev-A.0
True vertical depths are referenced to Patterson 342 (RKB)
Measured depths are referenced to Patterson 342 (RKB)
Patterson 342 (RKB) to Mean Sea Level: 1208 feet
Mean Sea Level to Ground level (At Slot: Slot #06): -118 feet
Coordinates are in feet referenced to Slot
Grid System: NAD27 / UTM Zone 17 North, US feet
North Reference: Grid north
Scale: True distance
Depths are in feet
Created by: mccrebb on 2018-05-29
Database: WA_MPL_EASTERNUS_Defn



Well Profile Data									
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)	
Tie On	7146.00	60.380	144.740	6791.33	713.15	1411.33	4.44	-128.12	
Proj. To Bottom	7235.00	65.440	145.100	6831.84	648.32	1456.85	5.70	-50.92	
POE	7321.76	68.168	147.115	6866.00	582.12	1501.30	3.82	27.16	
Landing Pt.	7539.77	90.000	147.115	6907.00	403.43	1616.84	10.00	236.23	
On Azimuth	7968.38	90.000	157.837	6907.00	23.89	1814.61	2.50	662.33	
BHL	15838.00	90.000	157.837	6907.00	-7264.25	4783.43	0.00	8531.95	

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Convair Unit 3H	Convair Unit 3H-AWB	Convair Unit 3H AWP Proj: 15822'
Slot #06	Convair Unit 3H	Convair Unit 3H-PWB	Convair Unit 3H PWP Rev-A.0



User specified Dip: 66.58° Field: 52059 nT
 Magnetic North is 7.66 degrees West of True North (at 5/6/2018)
 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

Gyrodata MS Gyro <17-1/2">(50-577') : 0.33° Inc, 50.00ft MD, 50.00ft TVD, 0.07ft VS
 Gyrodata MS Gyro <12-1/4">(577')(798') : 3.73° Inc, 798.00ft MD, 797.85ft TVD, -0.39ft VS
 WFT EM <12-1/4">(798')(832'-2506') : 4.43° Inc, 832.00ft MD, 831.76ft TVD, -1.13ft VS

Gyrodata MS Gyro <17-1/2">(50-577') : 50.00ft TVD, 0.07ft S, 0.02ft E
 Gyrodata MS Gyro <12-1/4">(577')(798') : 797.85ft TVD, 1.20ft N, 1.92ft E
 WFT EM <12-1/4">(798')(832'-2506') : 831.76ft TVD, 2.75ft N, 3.77ft E
 WFT EM <8-3/4">(2506')(2661'-7146') : 2597.06ft TVD, 318.35ft N, 343.36ft E

BH AT Curve <8-1/2">(7146')(7207'-15798') : 6819.81ft TVD, 668.58ft N, 1441.70ft E
 POE Marcellus: 7321.1MD / 6864.1TVD : 6864.06ft TVD, 580.52ft N, 1498.89ft E

API: 47-017-06853-0000
 BH Job #: 9154234
 Rig: Patterson 342
 Duration: 05/07/18 - 05/09/18

05/03/2019



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Convair Unit 3H
Field	Doddridge	Wellbore	Convair 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	Mccrerieb
Scale	0.999605	Report Generated	5/29/2018 at 8:52:49 AM
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Convair_Unit_3H_AWP_Proj_15822_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-9.10	3.95	1703912.81	14284254.23	39°20'08.630"N	80°46'31.670"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		
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Facility Vertical Datum	25.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Mean Sea Level	1206.00ft
MD Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #06)	25.00ft
Field Vertical Reference	Mean Sea Level	Section Origin	N 0.00, E 0.00 ft
		Section Azimuth	157.84°

05/03/2019



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Convair Unit 3H
Field	Doddridge	Wellbore	Convair Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (204 stations) † = interpolated/extrapolated station																
MD ft	Inclination °	Azimuth °	TVD ft	Vert Sect ft	North ft	East ft	Grid East US ft	Grid North US ft	Latitude	Longitude	Closure Dist ft	Closure Dir °	DLS °/100ft	Build Rate °/100ft	Turn Rate °/100ft	Comments
0.00	0.000	161.310	0.00	0.00	0.00	0.00	1703912.81	14284254.23	39°20'08.630"N	80°46'31.570"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	161.310	25.00	0.00	0.00	0.00	1703912.81	14284254.23	39°20'08.630"N	80°46'31.570"W	0.00	0.000	0.00	0.00	0.00	
50.00	0.330	161.310	50.00	0.07	-0.07	0.02	1703912.83	14284254.16	39°20'08.629"N	80°46'31.570"W	0.07	161.310	1.32	1.32	645.24	Syrodata MS Gyro <17-1/2">(50-577)
75.00	0.440	175.930	75.00	0.23	-0.23	0.05	1703912.86	14284254.00	39°20'08.628"N	80°46'31.569"W	0.24	167.150	0.59	0.44	58.48	
100.00	0.520	173.930	100.00	0.44	-0.44	0.07	1703912.88	14284253.79	39°20'08.626"N	80°46'31.569"W	0.45	170.751	0.33	0.32	-8.00	
125.00	0.580	174.860	125.00	0.67	-0.68	0.10	1703912.90	14284253.55	39°20'08.623"N	80°46'31.569"W	0.69	172.034	0.24	0.24	3.72	
150.00	0.330	200.330	150.00	0.84	-0.87	0.08	1703912.89	14284253.36	39°20'08.621"N	80°46'31.569"W	0.88	174.672	1.26	-1.00	101.88	
175.00	0.320	175.670	175.00	0.96	-1.01	0.06	1703912.87	14284253.22	39°20'08.620"N	80°46'31.569"W	1.01	177.629	0.51	-0.16	93.12	
200.00	0.280	198.950	200.00	1.07	-1.14	0.05	1703912.85	14284253.09	39°20'08.619"N	80°46'31.570"W	1.14	177.629	0.51	-0.16	93.12	
225.00	0.320	183.480	225.00	1.18	-1.27	0.02	1703912.83	14284252.96	39°20'08.617"N	80°46'31.570"W	1.27	178.957	0.36	0.16	-61.88	
250.00	0.360	210.500	249.99	1.29	-1.40	-0.02	1703912.78	14284252.83	39°20'08.616"N	80°46'31.570"W	1.40	180.861	0.65	0.16	108.08	
275.00	0.520	207.530	274.99	1.41	-1.57	-0.11	1703912.69	14284252.66	39°20'08.614"N	80°46'31.571"W	1.57	184.128	0.65	0.64	-11.88	
300.00	0.540	212.840	299.99	1.55	-1.77	-0.23	1703912.58	14284252.46	39°20'08.613"N	80°46'31.573"W	1.79	187.393	0.21	0.08	21.24	
325.00	0.620	203.480	324.99	1.71	-1.99	-0.35	1703912.46	14284252.24	39°20'08.610"N	80°46'31.574"W	2.02	189.888	0.50	0.32	-37.44	
350.00	0.370	225.870	349.99	1.84	-2.17	-0.46	1703912.35	14284252.06	39°20'08.609"N	80°46'31.576"W	2.22	191.932	1.25	-1.00	89.56	
375.00	0.450	229.720	374.99	1.90	-2.29	-0.59	1703912.21	14284251.94	39°20'08.607"N	80°46'31.578"W	2.37	194.478	0.34	0.32	15.40	
400.00	0.410	225.970	399.99	1.96	-2.42	-0.73	1703912.07	14284251.81	39°20'08.606"N	80°46'31.579"W	2.53	196.822	0.20	-0.16	-15.00	
425.00	0.280	239.710	424.99	2.01	-2.51	-0.85	1703911.96	14284251.72	39°20'08.605"N	80°46'31.581"W	2.65	198.663	0.61	-0.52	54.96	
450.00	0.430	249.350	449.99	2.01	-2.58	-0.99	1703911.82	14284251.65	39°20'08.605"N	80°46'31.583"W	2.76	201.004	0.64	0.60	38.56	
475.00	0.420	251.740	474.99	2.00	-2.64	-1.16	1703911.64	14284251.59	39°20'08.604"N	80°46'31.585"W	2.88	203.808	0.08	-0.04	9.56	
500.00	0.560	254.260	499.99	1.98	-2.70	-1.37	1703911.44	14284251.53	39°20'08.603"N	80°46'31.587"W	3.03	206.880	0.57	0.56	10.08	
525.00	0.680	255.060	524.99	1.95	-2.77	-1.63	1703911.18	14284251.46	39°20'08.602"N	80°46'31.591"W	3.21	210.456	0.48	0.48	3.20	
550.00	0.700	255.870	549.98	1.91	-2.85	-1.92	1703910.89	14284251.38	39°20'08.602"N	80°46'31.595"W	3.43	214.011	0.09	0.08	3.24	
575.00	0.750	254.010	574.98	1.87	-2.93	-2.23	1703910.58	14284251.30	39°20'08.601"N	80°46'31.598"W	3.68	217.238	0.22	0.20	-7.44	
597.00	0.760	254.170	576.98	1.87	-2.94	-2.25	1703910.55	14284251.29	39°20'08.601"N	80°46'31.599"W	3.70	217.483	0.51	0.50	8.00	
778.00	3.730	50.870	797.85	-0.39	1.20	1.92	1703914.72	14284255.43	39°20'08.642"N	80°46'31.546"W	2.26	57.889	2.01	1.34	70.90	Syrodata MS Gyro <12-1/4">(677)(798)
832.00	4.430	49.590	831.76	-1.13	2.75	3.77	1703916.58	14284256.98	39°20'08.657"N	80°46'31.522"W	4.67	53.904	2.08	2.06	-3.76	WFT EM <12-1/4">(798)(832-2506)
926.00	6.640	50.800	925.32	-3.85	8.54	10.75	1703923.55	14284262.77	39°20'08.714"N	80°46'31.433"W	13.73	51.535	2.35	2.35	1.29	
1021.00	8.620	45.340	1019.47	-8.19	17.02	20.07	1703932.87	14284271.24	39°20'08.798"N	80°46'31.314"W	26.32	49.709	2.22	2.08	-5.75	
1115.00	11.010	44.940	1112.09	-14.38	28.32	31.43	1703944.22	14284282.54	39°20'08.909"N	80°46'31.169"W	42.31	47.971	2.54	2.54	-0.43	



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Convair Unit 3H
Field	Doddridge	Wellbore	Convair Unit 3H AWB
Facility	Alexander Pad		

WELLPATH DATA (204 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
1210.00	12.970	37.600	1205.02	-23.28	43.19	44.34	1703957.13	14284297.41	39°20'09.056"N	80°46'31.004"W	61.90	45.750	2.61	2.06	-7.73	
1304.00	14.480	36.460	1296.33	-34.71	61.01	57.76	1703970.54	14284315.21	39°20'09.232"N	80°46'30.833"W	84.01	43.435	1.63	1.61	-1.21	
1398.00	15.250	35.550	1387.19	-47.44	80.52	71.93	1703984.71	14284334.71	39°20'09.424"N	80°46'30.652"W	107.97	41.778	0.86	0.82	-0.97	
1493.00	15.090	40.320	1478.88	-59.82	100.11	87.20	1703999.97	14284354.30	39°20'09.617"N	80°46'30.457"W	132.76	41.057	1.32	-0.17	5.02	
1587.00	14.530	48.180	1569.77	-69.45	117.30	103.91	1704016.67	14284371.49	39°20'09.811"N	80°46'30.244"W	156.70	41.534	2.22	-0.60	8.36	
1681.00	15.480	51.580	1660.56	-76.93	132.96	122.52	1704035.28	14284387.14	39°20'09.941"N	80°46'30.006"W	180.81	42.660	1.38	1.01	3.62	
1776.00	17.430	52.100	1751.67	-84.34	149.58	143.68	1704056.43	14284403.75	39°20'10.105"N	80°46'29.737"W	207.41	43.848	2.06	2.05	0.55	
1870.00	17.950	49.910	1841.22	-92.61	167.56	165.87	1704078.61	14284421.72	39°20'10.282"N	80°46'29.454"W	235.78	44.711	0.90	0.55	-2.33	
1964.00	18.220	50.460	1930.58	-101.46	186.24	188.29	1704101.02	14284440.40	39°20'10.466"N	80°46'29.168"W	264.84	45.313	0.34	0.29	0.59	
2059.00	16.660	50.730	2021.21	-109.91	204.32	210.29	1704123.01	14284458.47	39°20'10.644"N	80°46'28.887"W	293.20	45.825	1.84	-1.64	0.28	
2153.00	15.890	47.420	2111.44	-118.36	221.55	230.19	1704142.91	14284475.70	39°20'10.814"N	80°46'28.633"W	319.49	46.096	1.28	-0.82	-3.52	
2247.00	17.460	49.850	2201.49	-127.21	239.36	250.45	1704163.16	14284493.49	39°20'10.990"N	80°46'28.375"W	346.43	46.298	1.83	1.67	2.59	
2342.00	18.280	53.110	2291.91	-135.40	257.49	273.26	1704185.96	14284511.62	39°20'11.168"N	80°46'28.084"W	375.46	46.702	1.36	0.86	3.43	
2436.00	17.100	50.890	2381.46	-143.17	275.06	295.77	1704208.46	14284529.18	39°20'11.341"N	80°46'27.797"W	403.90	47.079	1.45	-1.26	-2.36	
2506.00	16.250	47.970	2448.52	-149.50	288.11	311.04	1704223.72	14284542.22	39°20'11.470"N	80°46'27.602"W	423.97	47.192	1.70	-1.21	-4.17	
2661.00	16.940	45.880	2597.06	-165.32	318.35	343.36	1704256.02	14284572.45	39°20'11.768"N	80°46'27.190"W	468.23	47.164	0.59	0.45	-1.35	WFTLEM <-8-3/4">(2506)(2661-7146)
2756.00	15.930	46.900	2688.18	-175.16	336.89	362.81	1704275.47	14284590.99	39°20'11.951"N	80°46'26.942"W	495.10	47.122	1.11	-1.08	1.07	
2850.00	15.300	50.400	2778.71	-183.48	353.61	381.79	1704294.44	14284607.70	39°20'12.116"N	80°46'26.700"W	520.39	47.194	1.21	-0.67	3.72	
2945.00	15.230	48.570	2870.36	-191.36	369.86	400.80	1704313.45	14284623.94	39°20'12.276"N	80°46'26.457"W	545.38	47.299	0.51	-0.07	-1.93	
3039.00	15.240	52.440	2961.06	-198.71	385.66	419.85	1704332.49	14284639.63	39°20'12.430"N	80°46'26.214"W	570.03	47.438	1.08	0.01	4.12	
3133.00	15.070	51.110	3051.79	-205.51	400.76	439.16	1704351.79	14284654.83	39°20'12.580"N	80°46'25.968"W	594.53	47.617	0.41	-0.18	-1.41	
3232.00	14.920	49.150	3147.42	-213.30	417.18	458.81	1704371.44	14284671.24	39°20'12.742"N	80°46'25.717"W	620.12	47.721	0.53	-0.15	-1.98	
3327.00	15.040	50.060	3239.19	-220.98	433.09	477.52	1704390.13	14284687.15	39°20'12.899"N	80°46'25.479"W	644.66	47.930	0.28	0.13	0.96	
3421.00	14.910	53.080	3330.00	-227.79	448.18	496.54	1704409.14	14284702.24	39°20'13.047"N	80°46'25.236"W	668.89	47.930	0.84	-0.14	3.21	
3515.00	14.780	52.730	3420.86	-234.00	462.71	515.75	1704428.35	14284716.76	39°20'13.191"N	80°46'24.991"W	692.89	48.103	0.17	-0.14	-0.37	
3609.00	15.820	53.580	3511.53	-240.28	477.58	535.60	1704448.19	14284731.62	39°20'13.337"N	80°46'24.738"W	717.60	48.277	1.13	1.11	0.90	
3704.00	15.580	53.720	3602.99	-246.58	492.82	556.30	1704468.89	14284746.85	39°20'13.487"N	80°46'24.474"W	743.20	48.463	0.26	-0.25	0.15	
3799.00	15.240	52.820	3694.57	-252.93	507.91	576.53	1704489.11	14284761.94	39°20'13.636"N	80°46'24.216"W	768.35	48.621	0.44	-0.36	-0.95	
3894.00	15.020	52.240	3786.28	-259.47	522.99	596.22	1704508.78	14284777.02	39°20'13.784"N	80°46'23.965"W	793.09	48.743	0.28	-0.23	-0.61	
3989.00	14.750	51.870	3878.09	-266.11	538.00	615.46	1704528.02	14284792.01	39°20'13.932"N	80°46'23.720"W	817.46	48.842	0.30	-0.28	-0.39	



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot #06
Area	Doddridge Co., WV	Convair Unit 3H
Field	Doddridge	Convair Unit 3H AWB
Facility	Alexander Pad	

WELLPATH DATA (204 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
4083.00	15.070	51.530	3968.92	-272.84	552.99	634.44	1704546.99	14284807.00	39°20'14.080"N	80°46'23.478"W	841.61	48.924	0.35	0.34	-0.36	
4177.00	14.760	51.280	4059.76	-279.68	568.08	653.35	1704565.90	14284822.09	39°20'14.229"N	80°46'23.237"W	865.78	48.993	0.34	-0.33	-0.27	
4271.00	15.120	50.490	4150.58	-286.75	583.37	672.15	1704584.69	14284837.37	39°20'14.379"N	80°46'22.997"W	890.01	49.045	0.44	0.38	-0.84	
4365.00	14.710	48.560	4241.41	-294.35	599.07	690.56	1704603.09	14284853.06	39°20'14.534"N	80°46'22.762"W	914.20	49.058	0.69	-0.44	-2.05	
4460.00	15.240	48.120	4333.19	-302.54	615.39	708.89	1704621.42	14284869.37	39°20'14.695"N	80°46'22.528"W	938.74	49.039	0.57	0.56	-0.46	
4554.00	14.760	47.620	4423.98	-310.85	631.71	726.94	1704639.46	14284885.69	39°20'14.856"N	80°46'22.298"W	963.06	49.009	0.53	-0.51	-0.53	
4648.00	15.460	48.650	4514.73	-319.11	648.06	745.19	1704657.70	14284902.03	39°20'15.017"N	80°46'22.065"W	987.56	48.988	0.80	0.74	1.10	
4742.00	14.860	47.430	4605.46	-327.43	664.49	763.47	1704675.97	14284918.45	39°20'15.179"N	80°46'21.832"W	1012.14	48.965	0.72	-0.64	-1.30	
4836.00	15.130	50.800	4696.26	-335.23	680.39	781.86	1704694.35	14284934.35	39°20'15.335"N	80°46'21.598"W	1036.45	48.969	0.97	0.29	3.59	
4931.00	16.480	52.260	4787.67	-342.48	696.48	802.12	1704714.61	14284950.43	39°20'15.494"N	80°46'21.359"W	1062.30	49.032	1.48	1.42	1.54	
5025.00	16.310	50.730	4877.85	-349.94	712.99	822.88	1704735.36	14284966.94	39°20'15.657"N	80°46'21.075"W	1088.81	49.092	0.49	-0.18	-1.63	
5120.00	15.940	47.900	4969.11	-358.32	730.18	842.89	1704755.36	14284984.12	39°20'15.826"N	80°46'20.819"W	1115.18	49.098	0.91	-0.39	-2.98	
5214.00	15.550	47.450	5059.58	-367.11	747.36	861.75	1704774.21	14285001.29	39°20'15.995"N	80°46'20.579"W	1140.68	49.066	0.43	-0.41	-0.48	
5308.00	15.460	49.630	5150.16	-375.41	763.99	880.58	1704793.03	14285017.92	39°20'16.159"N	80°46'20.339"W	1165.80	49.055	0.63	-0.10	2.32	
5402.00	15.850	49.330	5240.68	-383.40	780.47	899.86	1704812.30	14285034.39	39°20'16.322"N	80°46'20.093"W	1191.17	49.064	0.42	0.41	-0.32	
5496.00	15.400	46.240	5331.20	-392.07	797.47	918.61	1704831.05	14285051.39	39°20'16.489"N	80°46'19.853"W	1216.47	49.038	1.01	-0.48	-3.29	
5591.00	15.350	48.880	5422.81	-400.80	814.47	937.19	1704849.62	14285068.37	39°20'16.657"N	80°46'19.616"W	1241.65	49.008	0.74	-0.05	2.78	
5685.00	15.550	47.600	5513.41	-409.20	831.15	955.87	1704868.29	14285085.04	39°20'16.821"N	80°46'19.378"W	1266.68	48.992	0.42	0.21	-1.36	
5780.00	15.810	49.400	5604.87	-417.70	848.15	975.10	1704887.52	14285102.05	39°20'16.989"N	80°46'19.133"W	1292.35	48.983	0.58	0.27	1.89	
5874.00	16.100	47.600	5695.25	-426.26	865.28	994.45	1704906.86	14285119.16	39°20'17.157"N	80°46'18.886"W	1318.19	48.973	0.61	0.31	-1.91	
5968.00	14.830	45.850	5785.85	-435.28	882.44	1012.70	1704925.11	14285136.32	39°20'17.322"N	80°46'18.653"W	1343.23	48.932	1.44	-1.35	-1.86	
6063.00	14.750	51.100	5877.71	-443.31	898.51	1030.84	1704943.23	14285152.38	39°20'17.485"N	80°46'18.422"W	1367.46	48.924	1.41	-0.08	5.53	
6157.00	15.840	48.620	5968.38	-450.98	914.50	1049.78	1704962.17	14285168.37	39°20'17.643"N	80°46'18.180"W	1392.25	48.940	1.35	1.16	-2.64	
6252.00	15.560	45.120	6059.83	-460.17	932.07	1068.54	1704980.92	14285185.92	39°20'17.816"N	80°46'17.941"W	1417.93	48.902	1.04	-0.29	-3.68	
6346.00	14.640	49.660	6150.59	-468.75	948.65	1086.52	1704998.90	14285202.50	39°20'17.979"N	80°46'17.712"W	1442.39	48.876	1.59	-0.98	4.83	
6393.00	15.200	59.190	6196.01	-471.53	955.65	1096.34	1705008.71	14285209.50	39°20'18.048"N	80°46'17.586"W	1454.39	48.922	5.35	1.19	20.28	
6440.00	15.820	71.140	6241.31	-472.09	960.88	1107.70	1705020.07	14285214.73	39°20'18.100"N	80°46'17.442"W	1466.39	49.060	6.91	1.32	25.43	
6487.00	16.210	86.080	6286.51	-469.66	963.40	1120.32	1705032.68	14285217.25	39°20'18.124"N	80°46'17.281"W	1477.58	49.306	8.79	0.83	31.79	
6534.00	17.910	99.410	6331.45	-463.82	962.67	1134.00	1705046.35	14285216.52	39°20'18.117"N	80°46'17.107"W	1487.51	49.671	9.05	3.62	28.36	
6581.00	21.240	108.030	6375.74	-454.54	958.85	1149.23	1705061.58	14285212.70	39°20'18.078"N	80°46'16.913"W	1496.70	50.160	9.36	7.03	18.34	



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'
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REFERENCE WELLPATH IDENTIFICATION		Slot #06
Operator	ANTERO RESOURCES CORPORATION	Convair Unit 3H
Area	Doddridge Co., WV	Convair Unit 3H AWB
Field	Doddridge	
Facility	Alexander Pad	

WELLPATH DATA (204 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
6628.00	23.900	116.830	6419.15	-441.86	951.91	1165.83	1705078.17	14285205.77	39°20'18.009"N	80°46'16.702"W	1505.09	50.768	9.13	5.66	18.72	
6675.00	27.000	122.410	6461.59	-425.97	941.90	1183.34	1705095.67	14285195.75	39°20'17.910"N	80°46'16.480"W	1512.43	51.481	8.33	6.60	11.87	
6723.00	30.300	123.940	6503.71	-407.04	929.29	1202.59	1705115.91	14285183.15	39°20'17.785"N	80°46'16.235"W	1519.80	52.305	7.04	6.87	3.19	
6770.00	33.450	126.860	6543.62	-386.09	914.90	1222.79	1705135.11	14285168.76	39°20'17.642"N	80°46'15.978"W	1527.17	53.196	7.46	6.70	6.21	
6817.00	36.750	128.410	6582.06	-362.72	898.38	1244.18	1705156.50	14285152.26	39°20'17.478"N	80°46'15.707"W	1534.63	54.168	7.29	7.04	3.30	
6864.00	39.940	130.990	6618.92	-337.01	879.74	1266.60	1705178.90	14285133.62	39°20'17.294"N	80°46'15.422"W	1542.15	55.217	7.57	6.77	5.49	
6911.00	44.920	133.670	6653.60	-308.39	858.38	1290.01	1705202.30	14285112.26	39°20'17.082"N	80°46'15.125"W	1549.49	56.360	11.27	10.60	5.70	
6958.00	49.340	137.180	6685.58	-276.55	833.83	1314.14	1705226.43	14285087.72	39°20'16.839"N	80°46'14.818"W	1556.35	57.605	10.88	9.40	7.47	
7005.00	53.050	138.950	6715.03	-242.08	806.58	1338.60	1705250.88	14285060.48	39°20'16.569"N	80°46'14.508"W	1562.82	58.929	8.42	7.89	3.77	
7052.00	56.090	141.200	6742.27	-205.62	777.20	1363.16	1705275.43	14285031.12	39°20'16.278"N	80°46'14.196"W	1569.16	60.310	7.55	6.47	4.79	
7099.00	58.840	143.110	6767.55	-167.47	745.91	1387.46	1705299.72	14284999.85	39°20'15.968"N	80°46'13.888"W	1575.26	61.737	6.78	5.85	4.06	
7133.00†	59.952	144.294	6784.86	-139.10	722.33	1404.78	1705317.03	14284976.27	39°20'15.734"N	80°46'13.668"W	1579.61	62.788	4.44	3.27	3.48	Burket: 7133MD / 6785TVD
7146.00	60.380	144.740	6791.33	-128.12	713.15	1411.33	1705323.57	14284967.09	39°20'15.643"N	80°46'13.585"W	1581.27	63.193	4.44	3.29	3.43	
7191.00†	63.004	146.183	6812.66	-89.43	680.51	1433.78	1705346.02	14284934.47	39°20'15.320"N	80°46'13.301"W	1587.08	64.610	6.48	5.83	3.21	Tully: 7191MD / 6813TVD
7207.00	63.940	146.680	6819.81	-75.40	668.58	1441.70	1705353.93	14284922.55	39°20'15.202"N	80°46'13.200"W	1589.18	65.121	6.48	5.85	3.10	BH AT Curve <8-1/2> (7146) (7207-15798)
7219.00	64.460	146.710	6825.03	-64.80	659.55	1447.63	1705359.86	14284913.52	39°20'15.113"N	80°46'13.125"W	1590.80	65.506	4.34	4.33	0.25	
7266.00	67.720	146.950	6844.08	-22.63	623.59	1471.14	1705383.36	14284877.57	39°20'14.757"N	80°46'12.827"W	1597.84	67.029	6.95	6.94	0.51	
7297.00†	68.828	147.215	6855.56	5.67	599.42	1486.78	1705399.00	14284853.41	39°20'14.517"N	80°46'12.629"W	1603.07	68.042	3.66	3.57	0.85	Hamilton: 7297MD / 6856TVD
7313.00	69.400	147.350	6861.26	20.36	586.84	1494.86	1705407.08	14284840.84	39°20'14.393"N	80°46'12.526"W	1605.93	68.566	3.66	3.58	0.84	
7321.00†	69.617	147.592	6864.06	27.73	580.52	1498.89	1705411.10	14284834.52	39°20'14.330"N	80°46'12.475"W	1607.39	68.829	3.92	2.71	3.02	POE Marcellus: 7321MD / 6864TVD
7360.00	70.680	148.760	6877.30	63.89	549.35	1518.24	1705430.44	14284803.37	39°20'14.022"N	80°46'12.230"W	1614.57	70.108	3.92	2.73	3.00	
7408.00	75.070	149.900	6891.43	109.25	509.91	1541.62	1705453.82	14284763.93	39°20'13.631"N	80°46'11.934"W	1623.76	71.698	9.42	9.15	2.38	
7455.00	80.570	149.870	6901.35	154.73	470.18	1564.67	1705476.85	14284724.22	39°20'13.238"N	80°46'11.642"W	1633.78	73.274	11.70	11.70	-0.06	
7503.00	86.270	149.630	6906.85	201.92	429.01	1588.68	1705500.85	14284683.07	39°20'12.831"N	80°46'11.337"W	1645.58	74.888	11.89	11.87	-0.50	
7530.00	89.170	149.700	6907.92	228.62	405.72	1602.29	1705514.46	14284659.79	39°20'12.600"N	80°46'11.165"W	1652.86	75.791	10.75	10.74	0.41	
7597.00	88.860	148.700	6909.07	294.86	348.17	1636.58	1705548.73	14284602.26	39°20'12.030"N	80°46'10.730"W	1673.20	77.990	1.62	-0.46	-1.55	
7692.00	89.170	151.430	6910.70	388.96	265.86	1683.97	1705596.11	14284519.99	39°20'11.216"N	80°46'10.130"W	1704.83	81.028	2.89	0.33	2.87	
7786.00	89.200	153.630	6912.04	482.54	182.47	1727.32	1705639.44	14284436.63	39°20'10.391"N	80°46'09.581"W	1736.94	83.970	2.94	0.03	2.94	
7881.00	89.110	156.230	6913.44	577.40	96.44	1767.57	1705679.67	14284350.63	39°20'09.539"N	80°46'09.071"W	1770.20	86.877	2.74	-0.09	2.74	
7975.00	89.540	157.400	6914.55	671.38	10.04	1804.57	1705716.66	14284264.26	39°20'08.684"N	80°46'08.603"W	1804.60	89.681	1.33	0.46	1.24	



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #06
ANTERO RESOURCES CORPORATION	Convair Unit 3H
Area	Well
Doddridge Co., WV	Convair Unit 3H AWP
Field	Wellbore
Doddridge	
Facility	Alexander Pad

WELLPATH DATA (204 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
8070.00	89.630	156.260	6915.24	766.36	-77.29	1841.95	1705754.03	14284176.97	39°20'07.820"N	80°46'08.130"W	1843.57	92.403	1.20	0.09	-1.20	
8165.00	89.380	155.320	6916.06	861.29	-163.93	1880.91	1705792.97	14284090.36	39°20'06.963"N	80°46'07.637"W	1888.04	94.981	1.02	-0.26	-0.99	
8260.00	89.880	154.150	6916.67	956.15	-249.84	1921.45	1705833.49	14284004.49	39°20'06.113"N	80°46'07.124"W	1937.63	97.409	1.34	0.53	-1.23	
8355.00	89.020	151.660	6917.58	1050.78	-334.41	1964.72	1705876.74	14283919.98	39°20'05.276"N	80°46'06.576"W	1992.97	99.660	2.77	-0.91	-2.62	
8450.00	88.980	153.970	6919.24	1145.40	-418.89	2008.11	1705920.12	14283835.50	39°20'04.440"N	80°46'06.027"W	2051.33	101.783	2.43	-0.04	2.43	
8545.00	89.600	161.170	6920.42	1240.33	-506.64	2044.33	1705956.32	14283747.79	39°20'03.572"N	80°46'05.569"W	2106.17	103.919	7.61	0.65	7.58	
8639.00	90.520	163.930	6920.32	1334.00	-596.31	2072.51	1705984.50	14283658.16	39°20'02.685"N	80°46'05.213"W	2156.59	106.052	3.09	0.98	2.94	
8734.00	90.990	161.730	6919.07	1428.63	-687.06	2100.55	1706012.53	14283567.44	39°20'01.787"N	80°46'04.859"W	2210.06	108.112	2.73	0.49	-2.32	
8829.00	91.780	159.260	6916.77	1523.49	-776.57	2132.26	1706044.22	14283477.96	39°20'00.901"N	80°46'04.459"W	2269.27	110.012	2.70	0.83	-2.60	
8924.00	88.580	158.660	6916.48	1618.46	-865.23	2166.36	1706078.31	14283389.35	39°20'00.024"N	80°46'04.027"W	2332.76	111.771	3.43	-3.37	-0.63	
9019.00	88.550	159.760	6918.77	1713.40	-954.01	2200.07	1706112.00	14283300.59	39°19'59.146"N	80°46'03.601"W	2398.01	113.443	1.16	0.07	1.16	
9113.00	88.890	158.980	6920.79	1807.34	-1041.97	2233.18	1706145.10	14283212.68	39°19'58.276"N	80°46'03.183"W	2464.31	115.013	0.87	0.26	-0.83	
9208.00	88.710	156.300	6922.78	1902.31	-1129.80	2269.31	1706181.22	14283124.88	39°19'57.407"N	80°46'02.726"W	2535.00	116.467	2.83	-0.19	-2.82	
9303.00	88.860	156.030	6924.79	1997.25	-1216.67	2307.69	1706219.58	14283038.04	39°19'56.547"N	80°46'02.240"W	2608.78	117.799	0.33	0.16	-0.28	
9397.00	88.370	157.910	6927.07	2091.21	-1303.15	2344.46	1706256.33	14282951.60	39°19'55.692"N	80°46'01.775"W	2682.29	119.067	2.07	-0.52	2.00	
9492.00	89.420	158.390	6928.90	2186.19	-1391.31	2379.81	1706291.67	14282863.47	39°19'54.819"N	80°46'01.328"W	2756.57	120.312	1.22	1.11	0.51	
9586.00	89.200	154.420	6930.03	2280.13	-1477.43	2417.42	1706329.27	14282777.39	39°19'53.967"N	80°46'00.852"W	2833.15	121.432	4.23	-0.23	-4.22	
9681.00	88.400	153.350	6932.02	2374.88	-1562.71	2459.23	1706371.06	14282692.14	39°19'53.123"N	80°46'00.323"W	2913.74	122.454	1.41	-0.84	-1.13	
9776.00	88.090	156.230	6934.93	2469.69	-1648.61	2499.67	1706411.48	14282606.27	39°19'52.273"N	80°45'59.811"W	2994.37	123.406	3.05	-0.33	3.03	
9870.00	88.680	157.480	6937.58	2563.64	-1735.64	2536.60	1706448.40	14282519.91	39°19'51.418"N	80°45'59.344"W	3073.21	124.372	1.47	0.63	1.33	
9964.00	89.200	157.780	6939.32	2657.62	-1821.92	2573.37	1706484.15	14282433.03	39°19'50.568"N	80°45'58.892"W	3152.22	125.309	0.64	0.55	0.32	
10058.00	89.320	156.810	6940.53	2751.61	-1908.63	2608.65	1706520.42	14282346.36	39°19'49.701"N	80°45'58.433"W	3232.32	126.191	1.04	0.13	-1.03	
10248.00	88.860	153.190	6942.04	2846.47	-1994.70	2646.78	1706560.54	14282260.32	39°19'48.849"N	80°45'57.925"W	3315.85	126.982	3.84	-0.48	-3.81	
10433.00	88.860	156.010	6943.93	2941.29	-2080.49	2689.52	1706601.26	14282174.56	39°19'48.000"N	80°45'57.410"W	3400.29	127.724	2.97	0.00	2.97	
10437.00	89.260	160.410	6947.61	3130.12	-2257.32	2755.97	1706667.68	14281997.81	39°19'46.250"N	80°45'56.570"W	3482.37	128.519	4.84	-0.16	4.84	
10531.00	89.230	157.180	6948.85	3224.09	-2344.94	2789.97	1706707.66	14281910.22	39°19'45.384"N	80°45'56.140"W	3562.43	129.320	0.62	0.59	-0.21	
10626.00	88.920	156.420	6950.39	3319.06	-2432.24	2827.38	1706739.07	14281822.95	39°19'44.520"N	80°45'55.667"W	3644.53	130.047	3.44	-0.03	-3.44	
10721.00	89.350	163.080	6951.82	3413.94	-2521.31	2860.24	1706771.91	14281733.92	39°19'43.639"N	80°45'55.252"W	3729.60	130.704	0.86	-0.33	-0.80	
10816.00	90.370	168.190	6952.05	3508.03	-2613.31	2883.80	1706795.46	14281641.96	39°19'42.729"N	80°45'54.955"W	3812.87	131.396	7.02	0.45	7.01	
											3891.75	132.183	5.48	1.07	5.38	



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #06
Operator	ANTERO RESOURCES CORPORATION	Well	Convair Unit 3H
Area	Doddridge Co., WV	Wellbore	Convair Unit 3H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (204 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
10911.00	90.580	166.170	6951.27	3601.76	-2705.93	2904.88	1706816.53	14281549.37	39°19'41.813"N	80°45'54.690"W	3969.94	132.969	2.14	0.22	-2.13	
11005.00	90.220	163.330	6950.61	3695.07	-2796.61	2929.60	1706841.24	14281458.73	39°19'40.916"N	80°45'54.378"W	4050.14	133.670	3.05	-0.38	-3.02	
11099.00	89.350	160.140	6950.96	3788.84	-2885.86	2959.06	1706870.69	14281369.51	39°19'40.033"N	80°45'54.006"W	4133.31	134.283	3.52	-0.93	-3.39	
11194.00	89.510	156.360	6951.91	3883.81	-2974.08	2994.25	1706905.87	14281281.33	39°19'39.160"N	80°45'53.561"W	4220.27	134.806	3.98	0.17	-3.98	
11288.00	89.320	154.720	6952.87	3977.73	-3059.63	3035.17	1706944.77	14281195.81	39°19'38.314"N	80°45'53.069"W	4308.31	135.249	1.76	-0.20	-1.74	
11381.00	89.420	156.500	6953.89	4070.65	-3144.33	3071.57	1706983.16	14281111.15	39°19'37.475"N	80°45'52.583"W	4395.61	135.671	1.92	0.11	1.91	
11475.00	89.290	156.140	6954.95	4164.61	-3230.41	3109.32	1707020.89	14281025.11	39°19'36.624"N	80°45'52.105"W	4483.68	136.094	0.41	-0.14	-0.38	
11569.00	89.350	156.770	6956.06	4258.57	-3316.57	3148.87	1707058.43	14280938.97	39°19'35.771"N	80°45'51.630"W	4571.92	136.504	0.29	0.06	0.67	
11663.00	89.570	156.930	6956.95	4352.56	-3403.00	3183.82	1707095.36	14280852.58	39°19'34.916"N	80°45'51.163"W	4660.17	136.906	0.29	0.23	0.17	
11757.00	89.780	158.470	6957.48	4446.55	-3489.97	3219.49	1707131.02	14280765.65	39°19'34.055"N	80°45'50.712"W	4748.16	137.308	1.65	0.22	1.64	
11851.00	89.750	158.780	6957.87	4540.54	-3577.50	3253.75	1707165.26	14280678.15	39°19'33.189"N	80°45'50.279"W	4835.85	137.713	0.33	-0.03	0.33	
11945.00	90.090	158.480	6958.00	4634.53	-3665.04	3288.00	1707199.50	14280590.65	39°19'32.323"N	80°45'49.846"W	4923.76	138.104	0.48	0.36	-0.32	
12039.00	90.180	157.840	6957.78	4728.53	-3752.29	3322.97	1707234.46	14280503.43	39°19'31.460"N	80°45'49.404"W	5012.17	138.472	0.69	0.10	-0.68	
12133.00	89.820	155.450	6957.78	4822.50	-3838.58	3360.23	1707271.70	14280417.17	39°19'30.606"N	80°45'48.933"W	5101.56	138.802	2.57	-0.38	-2.54	
12227.00	90.180	155.320	6957.78	4916.42	-3924.04	3399.39	1707310.84	14280331.75	39°19'29.761"N	80°45'48.437"W	5191.72	139.098	0.41	0.38	-0.14	
12320.00	90.770	156.650	6957.01	5009.36	-4008.98	3437.23	1707348.67	14280246.84	39°19'28.920"N	80°45'47.959"W	5280.77	139.391	1.56	0.63	1.43	
12415.00	90.030	155.460	6956.35	5104.31	-4095.80	3475.79	1707387.21	14280160.05	39°19'28.061"N	80°45'47.471"W	5371.84	139.681	1.48	-0.78	-1.25	
12510.00	89.910	154.620	6956.39	5199.20	-4181.93	3515.88	1707427.28	14280073.96	39°19'27.209"N	80°45'46.964"W	5463.51	139.945	0.89	-0.13	-0.88	
12604.00	89.780	155.560	6956.65	5293.09	-4267.18	3555.47	1707466.86	14279988.74	39°19'26.365"N	80°45'46.463"W	5554.30	140.199	1.01	-0.14	1.00	
12698.00	90.180	159.430	6956.68	5387.07	-4354.01	3591.44	1707502.82	14279901.95	39°19'25.506"N	80°45'46.008"W	5644.10	140.482	4.14	0.43	4.12	
12791.00	90.430	162.010	6956.19	5479.94	-4441.78	3622.15	1707533.51	14279814.21	39°19'24.638"N	80°45'45.620"W	5731.44	140.804	2.79	0.27	2.77	
12885.00	90.280	160.700	6955.60	5573.76	-4530.85	3652.20	1707563.55	14279729.18	39°19'23.757"N	80°45'45.241"W	5819.55	141.129	1.40	-0.16	-1.39	
12980.00	90.550	159.070	6954.92	5668.69	-4620.05	3684.86	1707596.21	14279636.02	39°19'22.874"N	80°45'44.828"W	5909.57	141.425	1.74	0.28	-1.72	
13074.00	90.250	156.250	6954.26	5762.68	-4706.98	3720.59	1707631.92	14279549.12	39°19'22.014"N	80°45'44.376"W	5999.87	141.676	3.02	-0.32	-3.00	
13168.00	90.400	155.610	6953.73	5856.63	-4792.93	3758.93	1707670.24	14279463.33	39°19'21.165"N	80°45'43.891"W	6091.02	141.893	0.70	0.16	-0.68	
13262.00	91.140	155.700	6952.46	5950.55	-4878.44	3791.67	1707708.97	14279377.73	39°19'20.317"N	80°45'43.401"W	6182.35	142.101	0.79	0.79	0.10	
13356.00	90.060	155.950	6951.48	6044.48	-4964.19	3836.17	1707747.45	14279292.01	39°19'19.469"N	80°45'42.914"W	6273.70	142.304	1.18	-1.15	0.27	
13452.00	89.780	153.480	6951.61	6140.33	-5050.98	3877.17	1707788.43	14279205.25	39°19'18.610"N	80°45'42.395"W	6367.48	142.480	2.59	-0.29	-2.57	
13546.00	89.850	156.120	6951.92	6234.19	-5136.03	3917.19	1707828.43	14279120.24	39°19'17.768"N	80°45'41.889"W	6459.35	142.668	2.81	0.07	2.81	
13639.00	89.910	156.180	6952.11	6327.15	-5221.09	3954.79	1707866.02	14279035.22	39°19'16.927"N	80°45'41.413"W	6549.82	142.857	0.09	0.06	0.06	



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Alexander Pad
Slot	Slot #06
Well	Convair Unit 3H
Wellbore	Convair Unit 3H AWB

WELLPATH DATA (204 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
13733.00	90.000	156.170	6952.19	6421.11	-5307.08	3992.76	1707903.98	14278949.26	39°19'16.076"N	80°45'40.933"W	6641.33	143.044	0.10	0.10	-0.01	
13827.00	90.030	161.940	6952.16	6515.05	-5394.83	4026.35	1707937.55	14278961.54	39°19'15.208"N	80°45'40.509"W	6731.69	143.265	6.14	0.03	6.14	
13921.00	90.000	159.700	6952.14	6608.92	-5483.61	4057.23	1707968.42	14278772.80	39°19'14.329"N	80°45'40.119"W	6821.37	143.503	2.38	-0.03	-2.38	
14015.00	89.970	159.140	6952.16	6702.88	-5571.61	4090.27	1708001.45	14278684.84	39°19'13.459"N	80°45'39.701"W	6911.81	143.717	0.60	-0.03	-0.60	
14108.00	89.510	158.020	6952.58	6795.87	-5658.18	4124.23	1708035.40	14278598.30	39°19'12.602"N	80°45'39.272"W	7001.74	143.912	1.30	-0.49	-1.20	
14202.00	90.090	159.190	6952.91	6889.86	-5745.70	4158.52	1708069.68	14278510.81	39°19'11.736"N	80°45'38.839"W	7092.70	144.104	1.39	0.62	1.24	
14296.00	90.950	160.770	6952.06	6983.79	-5834.01	4190.70	1708101.84	14278422.53	39°19'10.863"N	80°45'38.432"W	7183.15	144.309	1.91	0.91	1.68	
14390.00	90.740	162.420	6950.67	7077.57	-5923.19	4220.38	1708131.50	14278333.39	39°19'09.980"N	80°45'38.058"W	7272.95	144.529	1.77	-0.22	1.76	
14484.00	90.520	162.750	6949.64	7171.24	-6012.88	4248.51	1708159.62	14278243.74	39°19'09.093"N	80°45'37.703"W	7362.37	144.756	0.42	-0.23	0.35	
14579.00	90.430	161.150	6948.85	7265.99	-6103.20	4277.94	1708189.05	14278153.46	39°19'08.200"N	80°45'37.331"W	7453.17	144.972	1.69	-0.09	-1.68	
14672.00	90.400	158.650	6948.18	7358.92	-6190.52	4309.90	1708220.99	14278066.17	39°19'07.336"N	80°45'36.928"W	7543.06	145.154	2.69	-0.03	-2.69	
14767.00	90.620	158.470	6947.33	7453.91	-6278.95	4344.62	1708255.70	14277977.78	39°19'06.481"N	80°45'36.489"W	7635.50	145.319	0.30	0.23	-0.19	
14862.00	90.180	156.470	6946.67	7548.90	-6366.69	4381.02	1708292.08	14277890.07	39°19'05.593"N	80°45'36.029"W	7728.39	145.468	2.16	-0.46	-2.11	
14957.00	90.000	156.410	6946.52	7643.87	-6453.77	4418.99	1708330.04	14277803.03	39°19'04.731"N	80°45'35.549"W	7821.68	145.600	0.20	-0.19	-0.06	
15051.00	90.430	156.300	6946.17	7737.84	-6539.88	4456.69	1708367.73	14277716.95	39°19'03.879"N	80°45'35.072"W	7914.04	145.727	0.47	0.46	-0.12	
15144.00	90.120	156.350	6945.72	7830.81	-6625.05	4494.04	1708405.06	14277631.81	39°19'03.036"N	80°45'34.600"W	8005.47	145.849	0.34	-0.33	0.05	
15239.00	90.220	155.820	6945.44	7925.76	-6711.89	4532.55	1708443.55	14277545.01	39°19'02.177"N	80°45'34.112"W	8098.98	145.969	0.57	0.11	-0.56	
15332.00	90.150	155.400	6945.14	8018.69	-6796.59	4570.95	1708481.94	14277460.34	39°19'01.339"N	80°45'33.627"W	8190.68	146.078	0.46	-0.08	-0.45	
15426.00	90.650	157.160	6944.48	8112.65	-6882.64	4608.76	1708519.74	14277374.32	39°19'00.487"N	80°45'33.149"W	8283.20	146.193	1.95	0.53	1.87	
15520.00	90.490	156.110	6943.55	8206.62	-6968.93	4646.04	1708557.00	14277288.07	39°18'59.633"N	80°45'32.677"W	8375.66	146.309	1.13	-0.17	-1.12	
15613.00	90.520	156.300	6942.73	8299.58	-7054.02	4683.56	1708594.50	14277203.01	39°18'58.791"N	80°45'32.203"W	8467.29	146.418	0.21	0.03	0.20	
15708.00	90.490	156.120	6941.89	8394.54	-7140.95	4721.88	1708632.81	14277116.12	39°18'57.931"N	80°45'31.718"W	8560.91	146.526	0.19	-0.03	-0.19	
15798.00	90.550	156.960	6941.07	8484.51	-7223.50	4757.71	1708668.62	14277033.60	39°18'57.114"N	80°45'31.265"W	8649.55	146.629	0.94	0.07	0.93	
15822.00	90.550	156.960	6940.84	8508.51	-7245.59	4767.10	1708678.01	14277011.52	39°18'56.896"N	80°45'31.146"W	8673.16	146.658	0.00	0.00	0.00	Projected MD @ TD: 15822'



Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #06
ANTERO RESOURCES CORPORATION	Well	Convair Unit 3H
Area	Doddridge Co., WV	Convair Unit 3H AWB
Field	Doddridge	
Facility	Alexander Pad	

HOLE & CASING SECTIONS - Ref Wellbore: Convair Unit 3H AWB Ref Wellpath: Convair Unit 3H AWP Proj: 15822'

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	-0.49	0.08
17.5in Open Hole	105.00	580.40	475.40	105.00	580.38	-0.49	0.08	-2.95	-2.29
13.375in Casing Surface	25.00	580.40	555.40	25.00	580.38	0.00	0.00	-2.95	-2.29
12.25in Open Hole	580.40	2574.40	1994.00	580.38	2514.13	-2.95	-2.29	301.16	325.27
9.625in Casing Intermediate	25.00	2574.40	2549.40	25.00	2514.13	0.00	0.00	301.16	325.27
8.75in Open Hole	2574.40	7235.00	4660.60	2514.13	6831.79	301.16	325.27	647.42	1455.58
8.5in Open Hole	7235.00	15822.00	8587.00	6831.79	6940.84	647.42	1455.58	-7245.59	4767.10
5.5in Casing Production	25.00	15822.00	15797.00	25.00	6940.84	0.00	0.00	-7245.59	4767.10

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Convair Unit 3H POE - Rev-2	6866.00	582.12	1501.30	1705413.51	14284636.12	39°20'14.346"N	80°46'12.444"W	point
Convair Unit 3H BHL - Rev2	6907.00	-7264.25	4783.43	1708694.34	14276992.87	39°18'56.711"N	80°45'30.939"W	point
Convair Unit 3H LP - Rev-1	6907.00	403.43	1616.84	1705529.00	14284657.50	39°20'12.577"N	80°46'10.980"W	point

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Convair Unit 3H AWP Proj: 15822'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Convair Unit 3H
Field	Doddridge	Wellbore	Convair Unit 3H AWB
Facility	Alexander Pad		

WELLPATH COMPOSITION - Ref Wellbore: Convair Unit 3H AWB Ref Wellpath: Convair Unit 3H AWP Proj: 15822'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
25.00	577.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(50'-577')
577.00	798.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(577')(798')
798.00	2506.00	ISCWSA MWD, Rev 4 (Standard)	03 WFT EM <12-1/4">(798')(832'-2506')
2506.00	7146.00	ISCWSA MWD, Rev 4 (Standard)	04 WFT EM <8-3/4">(2506')(2661'-7146')
7146.00	15798.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(7146')(7207'-15798')
15798.00	15822.00	Blind Drilling (std)	Projection to bit
			Convair Unit 3H AWB
			Convair Unit 3H AWB
			Convair Unit 3H AWB
			Convair Unit 3H AWB
			Convair Unit 3H AWB

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Actual Wellpath Report

Convair Unit 3H AWP Proj: 15822'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Convair Unit 3H
Field	Doddridge	Wellbore	Convair Unit 3H AWB
Facility	Alexander Pad		

COMMENTS
<p>Wellpath general comments API: 47-017-06853-0000 BH Job #: 9154234 Rig: Patterson 342 Duration: 05/07/18 - 05/09/18 Gyrodatta MS Gyro <17-1/2">(50'-577') Gyrodatta MS Gyro <12-1/4">(577')(798') WFT EM <12-1/4">(798')(832'-2506') WFT EM <8-3/4">(2506')(2661'-7146') Burket: 7133'MD / 6785'TVD Tully: 7191'MD / 6813'TVD BH AT Curve <8-1/2">(7146')(7207'-15798') Hamilton: 7297'MD / 6856'TVD POE Marcellus: 7321'MD / 6864'TVD Projected MD @ TD: 15822'</p>

05/03/2019