



ANTERO RESOURCES CORPORATION

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

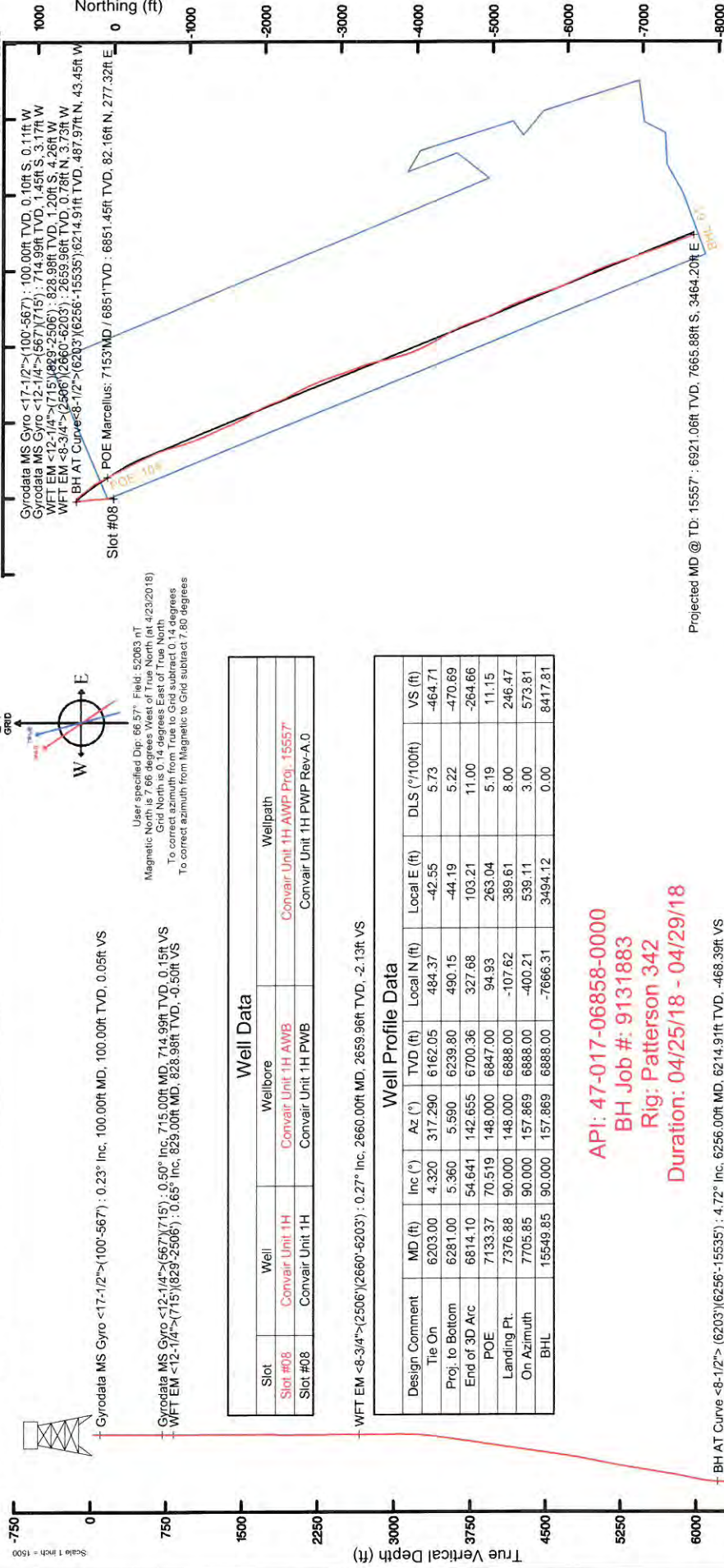
Slot: Slot #08
Well: Convair Unit 1H
Wellbore: Convair Unit 1H PWB



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	Local N (ft)	Local E (ft)	Latitude	Longitude
Slot #08	-27.29	11.85	39°20'08.450"N	80°46'31.470"W
Comment	Convair Unit 1H			
Patterson 342 (RKB) to Ground level (At Slot: Slot #08)	25ft			
Mean Sea Level to Ground level (At Slot: Slot #08)	-118ft			
Patterson 342 (RKB) to Mean Sea Level	1206ft			

Plot reference wellpath is Convair Unit 1H PWP Rev-A.0	
True vertical depths are referenced to Patterson 342 (RKB)	Grid System: NAD27 / UTM Zone 17 North, US feet
Measured depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Patterson 342 (RKB) to Mean Sea Level: 1206 feet	Scale: True distance
Mean Sea Level to Ground level (At Slot: Slot #08): -1181 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: mcoenb on 2018-06-22
	Database: WA_MPL_EASTERNUS_Defn



Well Data

Slot	Well	Wellbore	Wellpath
Slot #08	Convair Unit 1H	Convair Unit 1H AWB	Convair Unit 1H AWP Proj: 15557
Slot #08	Convair Unit 1H	Convair Unit 1H PWB	Convair Unit 1H PWP Rev-A.0

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6203.00	4.320	317.290	6162.05	484.37	-42.55	5.73	-464.71
Proj. to Bottom	6281.00	5.360	5.990	6239.80	490.15	-44.19	5.22	-470.69
End of 3D Arc	6814.10	54.641	142.655	6700.36	327.68	103.21	11.00	-264.66
POE	7133.37	70.519	148.000	6847.00	94.93	263.04	5.19	11.15
Landing Pt.	7376.88	90.000	148.000	6888.00	-107.62	389.61	8.00	246.47
On Azimuth	7705.85	90.000	157.869	6888.00	-400.21	539.11	3.00	573.81
BHL	15549.85	90.000	157.869	6888.00	-7666.31	3494.12	0.00	8417.81

API: 47-017-06858-0000
BH Job #: 9131883
Rig: Patterson 342
Duration: 04/25/18 - 04/29/18

05/03/2019



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Convair Unit 1H
Field	Doddridge	Wellbore	Convair Unit 1H 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	Mccrerib
Scale	0.999605	Report Generated	5/22/2018 at 10:24:05 AM
Convergence at slot	0.14° East	Database/Source file	WA_MPL_EASTERNUS_Defm/Convair_Unit_1H_AWP_Proj_15557_.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	11.85	1703920.71	14284236.04	39°20'08.450"N	80°46'31.470"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 #08)	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	157.87°

05/03/2019



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION	Well	Convair Unit 1H
Area	Doddridge Co., WV	Wellbore	Convair Unit 1H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (197 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
0.00H	0.000	227.010	0.00	0.00	0.00	0.00	1703920.70	14284236.04	39°20'08.450"N	80°46'31.470"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	227.010	25.00	0.00	0.00	0.00	1703920.70	14284236.04	39°20'08.450"N	80°46'31.470"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.230	227.010	100.00	0.05	-0.10	-0.11	1703920.59	14284235.94	39°20'08.449"N	80°46'31.471"W	0.15	227.010	0.31	0.31	-177.32	Gyrodata MS Gyro <17-1/2">(100-567)
125.00	0.150	211.830	125.00	0.09	-0.16	-0.16	1703920.54	14284235.88	39°20'08.448"N	80°46'31.472"W	0.23	224.897	0.38	-0.32	-60.72	
150.00	0.030	162.210	150.00	0.12	-0.20	-0.18	1703920.53	14284235.85	39°20'08.448"N	80°46'31.472"W	0.27	222.068	0.53	-0.48	-198.48	
175.00	0.110	241.650	175.00	0.13	-0.22	-0.20	1703920.51	14284235.83	39°20'08.448"N	80°46'31.473"W	0.29	222.533	0.43	0.32	317.76	
200.00	0.200	234.410	200.00	0.14	-0.25	-0.26	1703920.45	14284235.75	39°20'08.448"N	80°46'31.473"W	0.36	225.219	0.47	0.36	-28.96	
225.00	0.290	225.770	225.00	0.14	-0.30	-0.35	1703920.35	14284235.75	39°20'08.447"N	80°46'31.474"W	0.46	229.737	0.47	0.38	73.44	
250.00	0.250	229.880	250.00	0.15	-0.35	-0.45	1703920.25	14284235.69	39°20'08.447"N	80°46'31.476"W	0.57	232.226	0.46	-0.16	-91.56	
275.00	0.260	237.780	275.00	0.18	-0.42	-0.54	1703920.16	14284235.63	39°20'08.446"N	80°46'31.477"W	0.68	232.499	0.15	0.04	31.60	
300.00	0.320	232.710	300.00	0.21	-0.49	-0.65	1703920.06	14284235.56	39°20'08.445"N	80°46'31.478"W	0.81	232.886	0.26	0.24	-20.28	
325.00	0.360	232.270	325.00	0.25	-0.58	-0.76	1703919.94	14284235.47	39°20'08.444"N	80°46'31.480"W	0.96	232.823	0.16	0.16	-1.76	
350.00	0.220	232.780	350.00	0.28	-0.66	-0.86	1703919.84	14284235.39	39°20'08.444"N	80°46'31.481"W	1.09	232.781	0.56	-0.56	2.04	
375.00	0.280	228.800	375.00	0.32	-0.73	-0.95	1703919.76	14284235.32	39°20'08.443"N	80°46'31.482"W	1.19	232.567	0.25	0.24	-16.72	
400.00	0.170	284.700	400.00	0.31	-0.76	-1.03	1703919.68	14284235.29	39°20'08.443"N	80°46'31.483"W	1.28	233.690	0.93	-0.44	224.40	
425.00	0.220	257.220	425.00	0.28	-0.76	-1.11	1703919.59	14284235.29	39°20'08.443"N	80°46'31.484"W	1.35	235.733	0.42	0.20	-109.92	
450.00	0.290	232.130	450.00	0.29	-0.81	-1.21	1703919.50	14284235.24	39°20'08.442"N	80°46'31.485"W	1.45	236.269	0.52	0.28	-100.36	
475.00	0.350	247.900	475.00	0.31	-0.88	-1.33	1703919.37	14284235.17	39°20'08.441"N	80°46'31.487"W	1.59	236.658	0.42	0.24	63.08	
500.00	0.410	245.700	500.00	0.31	-0.94	-1.48	1703919.22	14284235.10	39°20'08.441"N	80°46'31.489"W	1.76	237.603	0.25	0.24	-8.80	
525.00	0.440	248.490	525.00	0.32	-1.01	-1.65	1703919.05	14284235.03	39°20'08.440"N	80°46'31.491"W	1.94	238.511	0.15	0.12	11.16	
550.00	0.480	244.000	549.99	0.32	-1.09	-1.84	1703918.87	14284234.95	39°20'08.439"N	80°46'31.493"W	2.14	239.225	0.22	0.16	-17.96	
567.00	0.490	241.780	566.99	0.33	-1.16	-1.96	1703918.74	14284234.89	39°20'08.439"N	80°46'31.495"W	2.28	239.456	0.13	0.06	-13.06	
715.00	0.500	270.370	714.99	0.15	-1.45	-3.17	1703917.54	14284234.59	39°20'08.436"N	80°46'31.510"W	3.49	245.341	0.17	0.01	19.32	Gyrodata MS Gyro <12-1/4">(567)(715)
829.00	0.650	293.190	828.98	-0.50	-1.20	-4.26	1703916.45	14284234.85	39°20'08.438"N	80°46'31.524"W	4.42	254.310	0.24	0.13	20.02	WFT EM <12-1/4">(715)(829-2506)
923.00	0.250	265.500	922.98	-0.94	-1.00	-4.95	1703915.75	14284235.04	39°20'08.440"N	80°46'31.533"W	5.05	258.558	0.47	-0.43	-29.46	
1018.00	0.220	223.300	1017.98	-0.92	-1.15	-5.29	1703915.42	14284234.89	39°20'08.439"N	80°46'31.537"W	5.41	257.709	0.18	-0.03	-44.42	
1112.00	0.220	212.790	1111.98	-0.75	-1.43	-5.51	1703915.20	14284234.61	39°20'08.436"N	80°46'31.540"W	5.69	255.998	0.04	0.00	-11.18	
1206.00	0.140	227.360	1205.98	-0.60	-1.66	-5.69	1703915.02	14284234.38	39°20'08.434"N	80°46'31.542"W	5.93	253.686	0.10	-0.08	15.50	
1300.00	0.130	314.630	1299.98	-0.66	-1.67	-5.85	1703914.86	14284234.38	39°20'08.434"N	80°46'31.545"W	6.08	254.094	0.20	-0.01	92.84	
1394.00	0.250	329.090	1393.98	-0.96	-1.42	-6.03	1703914.68	14284234.63	39°20'08.436"N	80°46'31.547"W	6.20	256.785	0.14	0.13	15.38	



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Convair Unit 1H
Field	Doddridge	Wellbore	Convair Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (197 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
1489.00	0.280	338.980	1488.98	-1.40	-1.02	-6.22	1703914.49	14284235.02	39°20'08.440"N	80°46'31.549"W	6.30	260.673	0.06	0.03	10.41	
1583.00	0.230	346.180	1582.98	-1.81	-0.62	-6.35	1703914.36	14284235.42	39°20'08.444"N	80°46'31.551"W	6.38	264.385	0.06	-0.05	7.66	
1678.00	0.240	293.700	1677.97	-2.14	-0.36	-6.58	1703914.13	14284235.69	39°20'08.447"N	80°46'31.554"W	6.59	266.875	0.22	0.01	-55.24	
1772.00	0.400	302.400	1771.97	-2.55	-0.10	-7.03	1703913.67	14284235.94	39°20'08.449"N	80°46'31.560"W	7.03	269.152	0.18	0.17	9.26	
1867.00	0.270	315.360	1866.97	-3.03	0.23	-7.47	1703913.24	14284236.28	39°20'08.452"N	80°46'31.563"W	7.47	271.785	0.16	-0.14	13.64	
1961.00	0.280	348.180	1960.97	-3.46	0.62	-7.67	1703913.03	14284236.66	39°20'08.456"N	80°46'31.568"W	7.70	274.584	0.17	0.01	34.91	
2055.00	0.310	73.350	2054.97	-3.66	0.91	-7.48	1703913.23	14284236.96	39°20'08.459"N	80°46'31.565"W	7.53	276.961	0.43	0.03	90.61	
2149.00	0.530	88.630	2148.97	-3.48	1.00	-6.80	1703913.91	14284237.04	39°20'08.460"N	80°46'31.566"W	6.87	278.336	0.26	0.23	16.26	
2244.00	0.670	75.150	2243.96	-3.26	1.15	-5.82	1703914.88	14284237.19	39°20'08.461"N	80°46'31.544"W	5.93	281.163	0.21	0.15	-14.19	
2338.00	0.320	107.590	2337.96	-3.02	1.21	-5.04	1703915.67	14284237.25	39°20'08.462"N	80°46'31.534"W	5.18	283.503	0.46	-0.37	34.51	
2433.00	0.190	115.730	2432.96	-2.73	1.06	-4.65	1703916.06	14284237.11	39°20'08.461"N	80°46'31.529"W	4.77	282.874	0.14	-0.14	8.57	
2506.00	0.240	105.920	2505.96	-2.55	0.97	-4.39	1703916.32	14284237.01	39°20'08.460"N	80°46'31.526"W	4.50	282.428	0.08	0.07	-13.44	
2660.00	0.270	105.150	2659.96	-2.13	0.78	-3.73	1703916.98	14284236.83	39°20'08.458"N	80°46'31.517"W	3.81	281.873	0.02	0.02	-0.50	WFT EM <-8-3/4">(2506')(2660'-6203)
2755.00	0.290	123.740	2754.95	-1.80	0.59	-3.31	1703917.39	14284236.64	39°20'08.456"N	80°46'31.512"W	3.37	280.131	0.10	0.02	19.57	
2849.00	0.430	121.350	2848.95	-1.32	0.28	-2.81	1703917.89	14284236.32	39°20'08.453"N	80°46'31.506"W	2.83	275.611	0.15	0.15	-2.54	
2944.00	0.280	144.940	2943.95	-0.80	-0.10	-2.38	1703918.33	14284235.95	39°20'08.449"N	80°46'31.500"W	2.38	267.617	0.22	-0.16	24.83	
3038.00	0.240	153.480	3037.95	-0.38	-0.46	-2.16	1703918.55	14284235.58	39°20'08.445"N	80°46'31.497"W	2.21	257.885	0.06	-0.04	9.09	
3132.00	1.930	39.070	3131.93	-0.95	0.59	-1.07	1703919.63	14284236.63	39°20'08.456"N	80°46'31.484"W	1.22	298.826	2.17	1.80	-121.71	
3231.00	4.620	24.580	3230.76	-4.49	5.51	1.64	1703922.34	14284241.55	39°20'08.504"N	80°46'31.449"W	5.75	16.554	2.82	2.72	-14.64	
3326.00	6.380	10.270	3325.33	-11.57	14.18	4.17	1703924.87	14284250.22	39°20'08.590"N	80°46'31.416"W	14.79	16.385	2.34	1.85	-15.06	
3420.00	7.860	359.160	3418.60	-21.97	25.75	5.01	1703925.71	14284261.79	39°20'08.704"N	80°46'31.405"W	26.23	11.005	2.14	1.57	-11.82	
3514.00	8.260	355.830	3511.68	-34.38	38.91	4.42	1703925.13	14284274.94	39°20'08.834"N	80°46'31.412"W	39.16	6.484	0.65	0.43	-3.54	
3608.00	8.550	355.250	3604.67	-47.47	52.61	3.35	1703924.06	14284288.63	39°20'08.970"N	80°46'31.426"W	52.72	3.647	0.32	0.31	-0.62	
3703.00	8.830	354.380	3698.57	-61.20	66.91	2.05	1703922.76	14284302.92	39°20'09.111"N	80°46'31.442"W	66.94	1.759	0.33	0.29	-0.92	
3798.00	8.970	353.610	3792.43	-75.32	81.52	0.52	1703921.22	14284317.53	39°20'09.256"N	80°46'31.461"W	81.52	0.363	0.19	0.15	-0.81	
3893.00	9.170	352.260	3886.24	-89.78	96.38	-1.33	1703919.38	14284332.39	39°20'09.403"N	80°46'31.484"W	96.39	359.211	0.31	0.21	-1.42	
3988.00	8.570	355.340	3980.11	-103.87	110.94	-2.92	1703917.78	14284346.94	39°20'09.547"N	80°46'31.504"W	110.98	358.491	0.81	-0.63	3.24	
4082.00	8.630	355.620	4073.05	-117.26	124.95	-4.03	1703916.68	14284360.95	39°20'09.685"N	80°46'31.517"W	125.02	358.153	0.08	0.06	0.30	
4176.00	8.900	353.610	4165.95	-130.98	139.21	-5.38	1703915.33	14284375.20	39°20'09.826"N	80°46'31.534"W	139.31	357.788	0.43	0.29	-2.14	
4270.00	8.820	353.550	4258.83	-144.92	153.60	-7.00	1703913.71	14284389.58	39°20'09.968"N	80°46'31.554"W	153.76	357.392	0.09	-0.08	-0.06	



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Convair Unit 1H
Field	Doddridge	Wellbore	Convair Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (197 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 (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
4364.00	8.750	352.680	4351.73	-158.77	167.85	-8.72	1703911.99	14284403.83	39°20'10.109"N	80°46'31.576"W	168.08	357.027	0.16	-0.07	-0.93	
4459.00	8.740	356.730	4445.62	-172.58	182.22	-10.05	1703910.66	14284418.19	39°20'10.251"N	80°46'31.592"W	182.50	356.843	0.65	-0.01	4.26	
4553.00	8.940	357.860	4538.51	-186.21	196.65	-10.73	1703909.98	14284432.62	39°20'10.394"N	80°46'31.600"W	196.94	356.877	0.28	0.21	1.20	
4647.00	9.190	358.380	4631.33	-200.10	211.45	-11.21	1703909.49	14284447.41	39°20'10.540"N	80°46'31.606"W	211.75	356.964	0.28	0.27	0.55	
4741.00	9.460	357.490	4724.09	-214.41	226.67	-11.77	1703908.94	14284462.63	39°20'10.691"N	80°46'31.613"W	226.98	357.029	0.33	0.29	-0.95	
4835.00	9.890	356.210	4816.75	-229.35	242.45	-12.64	1703908.07	14284478.39	39°20'10.847"N	80°46'31.623"W	242.78	357.016	0.51	0.46	-1.36	
4930.00	10.580	356.040	4910.24	-245.38	259.29	-13.78	1703906.93	14284495.23	39°20'11.013"N	80°46'31.637"W	259.65	356.958	0.73	0.73	-0.18	
5024.00	11.390	355.330	5002.52	-262.43	277.15	-15.13	1703905.58	14284513.08	39°20'11.190"N	80°46'31.654"W	277.56	356.875	0.87	0.86	-0.76	
5119.00	11.270	352.740	5095.67	-280.35	295.71	-17.07	1703903.64	14284531.63	39°20'11.373"N	80°46'31.678"W	296.20	356.697	0.55	-0.13	-2.73	
5213.00	10.790	350.170	5187.93	-297.83	313.49	-19.73	1703900.98	14284549.41	39°20'11.549"N	80°46'31.711"W	314.11	356.399	0.73	-0.51	-2.73	
5307.00	9.670	355.540	5280.44	-313.95	330.03	-21.85	1703898.87	14284565.94	39°20'11.712"N	80°46'31.738"W	330.75	356.213	1.56	-1.19	5.71	
5401.00	10.140	358.180	5373.04	-329.23	346.17	-22.72	1703897.99	14284582.08	39°20'11.872"N	80°46'31.748"W	346.92	356.244	0.70	0.50	2.81	
5495.00	10.210	354.750	5465.56	-344.96	362.74	-23.75	1703896.97	14284598.64	39°20'12.036"N	80°46'31.761"W	363.51	356.254	0.65	0.07	-3.65	
5590.00	9.750	347.880	5559.13	-360.94	378.99	-26.21	1703894.51	14284614.88	39°20'12.196"N	80°46'31.792"W	379.89	356.044	1.34	-0.48	-7.23	
5684.00	9.520	352.610	5651.80	-376.30	394.48	-28.88	1703891.84	14284630.37	39°20'12.350"N	80°46'31.825"W	395.53	355.813	0.88	-0.24	5.03	
5779.00	9.620	0.270	5745.48	-391.23	410.21	-29.85	1703890.86	14284646.09	39°20'12.505"N	80°46'31.837"W	411.29	355.838	1.34	0.11	8.06	
5873.00	12.030	1.080	5837.80	-407.50	427.86	-29.63	1703891.09	14284663.73	39°20'12.680"N	80°46'31.834"W	428.88	356.038	2.57	2.56	0.86	
5967.00	12.580	357.020	5929.65	-426.17	447.88	-29.98	1703890.74	14284683.74	39°20'12.877"N	80°46'31.837"W	448.88	356.171	1.09	0.58	-4.32	
6062.00	11.570	347.170	6022.55	-445.35	467.50	-32.63	1703888.09	14284703.36	39°20'13.071"N	80°46'31.871"W	468.64	356.007	2.41	-1.06	-10.37	
6109.00	9.500	331.430	6068.77	-453.86	475.50	-35.53	1703885.18	14284711.36	39°20'13.151"N	80°46'31.907"W	476.83	355.726	7.50	-4.40	-33.49	
6156.00	7.010	316.330	6115.28	-460.38	480.99	-39.37	1703881.35	14284716.84	39°20'13.205"N	80°46'31.956"W	482.60	355.321	6.97	-5.30	-32.00	
6203.00	4.320	317.290	6162.05	-464.37	484.37	-42.55	1703878.17	14284720.22	39°20'13.238"N	80°46'31.996"W	486.23	354.980	5.73	-5.72	1.91	
6256.00	6.080	22.020	6236.81	-469.97	489.93	-42.82	1703877.27	14284723.82	39°20'13.274"N	80°46'32.008"W	489.90	354.912	7.86	0.75	103.26	BH AT Curve <8-1/2"> (6203)(6256;-15535)
6278.00	7.760	65.580	6285.48	-471.97	493.71	-38.83	1703881.89	14284725.78	39°20'13.293"N	80°46'32.000"W	491.80	355.005	7.50	6.18	45.45	
6327.00	10.680	97.410	6329.92	-470.03	494.43	-31.93	1703888.79	14284730.28	39°20'13.331"N	80°46'31.949"W	495.23	355.502	10.93	3.43	88.90	
6419.00	13.690	112.760	6375.90	-464.04	491.76	-22.59	1703898.13	14284727.61	39°20'13.311"N	80°46'31.742"W	492.28	357.370	8.88	5.77	32.66	
6467.00	16.690	125.780	6422.26	-454.27	485.58	-11.86	1703908.85	14284721.43	39°20'13.250"N	80°46'31.606"W	485.72	358.600	9.80	6.87	27.13	
6514.00	20.380	130.930	6466.82	-441.25	476.26	-0.20	1703920.50	14284712.12	39°20'13.157"N	80°46'31.457"W	476.26	359.976	8.58	7.85	10.96	
6561.00	26.420	137.530	6509.94	-424.14	463.18	13.06	1703933.76	14284699.04	39°20'13.028"N	80°46'31.289"W	463.36	1.615	13.99	12.85	14.04	



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557'

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION	Well	Convair Unit 1H
Area	Doddridge Co., WV	Wellbore	Convair Unit 1H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (197 stations) † = interpolated/extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[°]	[°]	[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
6656.00	37.330	141.280	6590.50	-376.56	424.99	45.45	1703966.13	14284660.87	39°20'12.649"N	80°46'30.878"W	427.42	6.104	11.67	11.48	3.95	
6751.00	47.900	141.140	6660.31	-315.03	374.93	85.69	1704006.36	14284610.83	39°20'12.154"N	80°46'30.368"W	384.60	12.874	11.13	11.13	-0.15	
6845.00	56.650	142.280	6717.77	-243.68	316.61	131.68	1704052.33	14284552.53	39°20'11.576"N	80°46'29.784"W	342.90	22.583	9.36	9.31	1.21	
6892.00	60.890	141.980	6742.10	-204.99	284.88	156.36	1704077.00	14284520.81	39°20'11.262"N	80°46'29.471"W	324.97	28.761	9.25	9.23	-0.64	
6939.00	61.420	144.150	6764.74	-165.17	251.96	181.11	1704101.74	14284487.90	39°20'10.936"N	80°46'29.157"W	310.29	35.709	4.15	0.91	4.62	
6952.00†	61.794	145.577	6770.93	-154.03	242.60	187.59	1704108.32	14284478.55	39°20'10.843"N	80°46'29.074"W	306.73	37.727	10.07	2.88	10.98	Burket: 6952'MD / 6771'TVD
6986.00	62.840	149.260	6786.73	-124.43	217.24	203.89	1704124.52	14284453.20	39°20'10.347"N	80°46'28.868"W	291.05	43.185	10.07	3.08	10.83	
7018.00†	64.232	150.293	6800.99	-96.06	192.48	218.31	1704138.93	14284428.45	39°20'10.347"N	80°46'28.868"W	291.05	43.185	10.07	3.08	10.83	Tully: 7018'MD / 6801'TVD
7034.00	64.930	150.800	6807.85	-81.73	179.90	225.42	1704146.03	14284415.87	39°20'10.223"N	80°46'28.595"W	288.41	51.407	5.22	4.37	3.17	
7081.00	68.350	152.350	6826.49	-38.85	141.96	245.95	1704166.55	14284377.95	39°20'09.847"N	80°46'28.335"W	288.98	60.007	7.88	7.28	3.30	
7119.00†	69.627	152.293	6840.11	-3.55	110.55	262.42	1704183.02	14284346.55	39°20'09.536"N	80°46'28.127"W	284.76	67.157	3.36	3.36	-0.15	Hamilton: 7119'MD / 6840'TVD
7128.00	69.930	152.280	6843.22	4.86	103.07	266.35	1704186.95	14284339.07	39°20'09.462"N	80°46'28.077"W	285.60	68.845	3.36	3.36	-0.15	
7153.00†	71.659	152.368	6851.45	28.36	82.16	277.32	1704197.91	14284318.17	39°20'09.255"N	80°46'27.938"W	289.23	73.497	6.92	6.91	0.34	POE Marcellus: 7153'MD / 6851'TVD
7175.00	73.180	152.440	6858.09	49.23	63.58	287.03	1704207.62	14284299.60	39°20'09.071"N	80°46'27.815"W	283.99	77.511	6.92	6.91	0.34	
7223.00	76.240	152.850	6870.75	95.34	22.46	308.30	1704228.89	14284258.49	39°20'08.664"N	80°46'27.546"W	309.12	85.834	6.43	6.38	0.85	
7270.00	79.550	152.640	6880.60	141.10	-18.39	329.35	1704249.92	14284217.66	39°20'08.260"N	80°46'27.279"W	329.86	93.196	7.06	7.04	-0.45	
7317.00	83.800	152.530	6887.41	187.40	-59.66	350.75	1704271.32	14284176.41	39°20'07.852"N	80°46'27.008"W	355.79	99.653	9.05	9.04	-0.23	
7413.00	89.970	152.540	6892.13	282.82	-144.68	394.98	1704315.53	14284134.86	39°20'07.440"N	80°46'26.734"W	385.89	105.208	7.68	7.68	-0.06	
7364.00	87.410	152.500	6891.01	234.05	-101.23	372.38	1704292.93	14284134.86	39°20'07.440"N	80°46'26.734"W	385.89	105.208	7.68	7.68	-0.06	
7507.00	89.200	152.250	6892.81	376.39	-227.98	438.54	1704359.07	14284008.16	39°20'06.186"N	80°46'26.896"W	494.26	117.468	8.88	-0.82	-0.31	
7602.00	89.230	154.560	6894.11	471.08	-312.91	481.06	1704401.57	14283923.25	39°20'05.345"N	80°46'25.358"W	573.88	123.043	2.43	0.03	2.43	
7696.00	89.080	155.610	6897.27	558.75	-482.76	561.59	1704482.07	14283753.48	39°20'03.665"N	80°46'24.338"W	740.57	130.683	1.53	0.17	1.52	
7790.00	89.080	155.610	6897.27	558.75	-482.76	561.59	1704482.07	14283753.48	39°20'03.665"N	80°46'24.338"W	740.57	130.683	1.53	0.17	1.52	
7885.00	89.260	156.170	6898.64	753.68	-569.46	600.39	1704520.86	14283666.81	39°20'02.807"N	80°46'23.847"W	827.50	133.486	0.62	0.19	0.59	
7980.00	89.260	159.690	6899.87	848.66	-657.48	636.08	1704556.53	14283578.83	39°20'01.936"N	80°46'23.396"W	914.81	135.948	3.70	0.00	3.71	
8074.00	89.690	165.330	6900.73	942.31	-747.09	664.32	1704584.76	14283489.25	39°20'01.050"N	80°46'23.039"W	999.73	138.357	6.02	0.46	6.00	
8169.00	89.380	166.300	6901.50	1036.39	-839.19	687.59	1704608.03	14283397.18	39°20'00.139"N	80°46'22.746"W	1084.91	140.670	1.07	-0.33	1.02	
8264.00	89.380	163.190	6902.53	1130.69	-930.83	712.59	1704633.01	14283305.59	39°19'59.232"N	80°46'22.431"W	1172.27	142.565	3.27	0.00	-3.27	
8360.00	89.420	159.710	6903.54	1226.49	-1021.82	743.12	1704663.53	14283214.63	39°19'58.332"N	80°46'22.045"W	1263.47	143.973	3.63	0.04	-3.62	
8455.00	89.200	159.050	6904.68	1321.45	-1110.73	776.97	1704696.97	14283125.76	39°19'57.463"N	80°46'21.622"W	1355.28	145.040	0.73	-0.23	-0.69	



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION		
Area	Doddridge Co., WV		
Field	Doddridge		
Facility	Alexander Pad		
	Well	Convair Unit 1H	
	Wellbore	Convair Unit 1H AWB	

WELLPATH DATA (197 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
8550.00	89.690	158.020	6905.60	1416.43	-1199.13	811.33	1704731.72	14283037.39	39°19'56.576"N	80°46'21.163"W	1447.82	145.918	1.20	0.52	-1.08	
8644.00	89.420	155.050	6906.33	1510.39	-1285.35	848.76	1704769.13	14282951.21	39°19'55.725"N	80°46'20.709"W	1540.30	146.562	3.17	-0.29	-3.16	
8739.00	89.260	154.670	6907.43	1605.26	-1371.34	889.12	1704809.47	14282865.25	39°19'54.874"N	80°46'20.198"W	1634.35	147.043	0.43	-0.17	-0.40	
8834.00	89.750	158.100	6908.25	1700.21	-1458.37	927.16	1704847.50	14282778.25	39°19'54.013"N	80°46'19.717"W	1728.14	147.554	3.65	0.52	3.61	
8929.00	89.200	156.820	6909.12	1795.20	-1546.11	963.68	1704883.90	14282690.55	39°19'53.145"N	80°46'19.256"W	1821.79	148.068	1.47	-0.58	-1.35	
9024.00	89.200	153.380	6910.45	1890.06	-1632.26	1003.57	1704923.87	14282604.44	39°19'52.293"N	80°46'18.750"W	1916.09	148.415	3.62	0.00	-3.62	
9118.00	89.290	153.870	6911.68	1983.80	-1716.46	1045.32	1704965.61	14282520.26	39°19'51.459"N	80°46'18.222"W	2009.71	148.659	0.53	0.10	0.52	
9213.00	88.710	147.950	6913.34	2078.04	-1799.43	1091.48	1705011.75	14282437.33	39°19'50.638"N	80°46'17.637"W	2104.59	148.760	6.28	-0.61	-6.23	
9307.00	89.140	149.810	6915.11	2170.87	-1879.89	1140.05	1705060.30	14282356.91	39°19'49.842"N	80°46'17.021"W	2198.57	148.765	2.03	0.46	1.98	
9402.00	88.770	153.660	6916.84	2265.29	-1963.53	1185.02	1705105.26	14282273.30	39°19'49.014"N	80°46'16.452"W	2293.41	148.888	4.07	-0.39	4.05	
9496.00	88.990	157.930	6918.68	2359.19	-2049.23	1223.55	1705143.77	14282187.63	39°19'48.166"N	80°46'15.964"W	2386.71	149.160	4.55	0.23	4.54	
9591.00	90.460	160.710	6919.13	2454.14	-2138.10	1257.09	1705177.30	14282098.80	39°19'47.287"N	80°46'15.540"W	2480.27	149.547	3.31	1.55	2.93	
9686.00	89.230	154.750	6919.39	2549.10	-2225.97	1293.08	1705213.27	14282010.96	39°19'46.417"N	80°46'15.085"W	2574.29	149.847	6.41	-1.29	-6.27	
9780.00	88.950	151.380	6920.89	2642.74	-2309.75	1335.65	1705255.82	14281927.21	39°19'45.588"N	80°46'14.546"W	2668.12	149.961	3.60	-0.30	-3.59	
9874.00	88.920	152.600	6922.63	2736.23	-2392.72	1379.78	1705299.94	14281844.27	39°19'44.767"N	80°46'13.987"W	2762.05	150.030	1.30	-0.03	1.30	
9969.00	88.950	153.610	6924.40	2830.88	-2477.43	1422.75	1705342.89	14281759.60	39°19'43.929"N	80°46'13.443"W	2856.90	150.132	1.06	0.03	1.06	
10063.00	88.830	154.710	6926.22	2924.67	-2562.01	1463.71	1705383.83	14281675.05	39°19'43.092"N	80°46'12.925"W	2950.65	150.260	1.18	-0.13	1.17	
10158.00	89.110	156.890	6927.93	3019.58	-2648.65	1502.64	1705422.75	14281588.45	39°19'42.234"N	80°46'12.432"W	3045.20	150.433	2.31	0.29	2.29	
10253.00	89.170	157.920	6929.35	3114.57	-2736.34	1539.14	1705459.23	14281500.79	39°19'41.367"N	80°46'11.970"W	3139.51	150.643	1.09	0.06	1.08	
10348.00	89.200	159.810	6930.70	3209.54	-2824.94	1573.39	1705493.47	14281412.23	39°19'40.490"N	80°46'11.537"W	3233.55	150.884	1.99	0.03	1.99	
10441.00	88.950	160.610	6932.21	3302.45	-2912.44	1604.87	1705524.94	14281324.77	39°19'39.625"N	80°46'11.140"W	3325.34	151.143	0.90	-0.27	0.86	
10535.00	89.110	161.690	6933.80	3396.28	-3001.38	1635.24	1705555.29	14281235.86	39°19'38.745"N	80°46'10.756"W	3417.94	151.417	1.16	0.17	1.15	
10630.00	89.200	160.320	6935.20	3491.13	-3091.19	1666.15	1705586.20	14281146.08	39°19'37.856"N	80°46'10.365"W	3511.63	151.675	1.45	0.09	-1.44	
10725.00	89.350	158.950	6936.40	3586.07	-3180.25	1699.21	1705619.24	14281057.06	39°19'36.975"N	80°46'09.948"W	3605.73	151.884	1.45	0.16	-1.44	
10820.00	89.320	159.070	6937.50	3681.05	-3268.94	1733.24	1705653.25	14280968.41	39°19'36.098"N	80°46'09.518"W	3700.01	152.067	0.13	-0.03	0.13	
10915.00	89.660	162.800	6938.35	3775.89	-3358.71	1764.26	1705684.27	14280878.67	39°19'35.210"N	80°46'09.126"W	3793.88	152.288	3.94	0.36	3.93	
11010.00	89.510	166.090	6939.04	3870.25	-3450.21	1789.73	1705719.21	14280787.20	39°19'34.305"N	80°46'08.805"W	3886.79	152.583	3.47	-0.16	3.46	
11104.00	90.030	167.390	6939.41	3963.12	-3541.70	1811.29	1705731.28	14280695.75	39°19'33.400"N	80°46'08.533"W	3978.00	152.914	1.49	0.55	1.38	
11198.00	89.510	166.700	6939.79	4055.92	-3633.31	1832.37	1705752.34	14280604.18	39°19'32.494"N	80°46'08.268"W	4069.21	153.237	0.92	-0.55	-0.73	
11293.00	89.260	166.100	6940.81	4149.86	-3725.64	1854.70	1705774.67	14280511.89	39°19'31.581"N	80°46'07.987"W	4161.77	153.535	0.68	-0.26	-0.63	



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Convair Unit 1H
Field	Doddridge	Wellbore	Convair Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (197 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
11387.00	89.260	162.660	6942.03	4243.23	-3816.15	1880.01	1705799.97	14280421.41	39°19'30.686"N	80°46'07.688"W	4254.10	153.773	3.66	0.00	-3.66	
11480.00	90.060	160.300	6942.58	4336.04	-3904.32	1909.55	1705829.49	14280333.27	39°19'29.814"N	80°46'07.295"W	4346.27	153.937	2.68	0.86	-2.54	
11574.00	90.740	156.900	6941.92	4430.02	-3991.83	1943.84	1705863.77	14280245.80	39°19'28.948"N	80°46'06.861"W	4439.95	154.036	3.59	0.72	-3.62	
11668.00	90.090	154.660	6941.24	4523.94	-4077.54	1982.40	1705902.31	14280160.12	39°19'28.100"N	80°46'06.373"W	4533.90	154.072	2.48	-0.69	-2.38	
11762.00	89.940	153.460	6941.22	4617.73	-4162.07	2023.51	1705943.41	14280075.63	39°19'27.263"N	80°46'05.853"W	4627.90	154.072	1.29	-0.16	-1.28	
11856.00	89.660	150.310	6941.54	4711.21	-4244.97	2067.80	1705987.69	14279992.76	39°19'26.443"N	80°46'05.292"W	4721.82	154.028	3.36	-0.30	-3.35	
11950.00	90.030	148.500	6941.80	4804.18	-4325.88	2115.65	1706035.51	14279931.88	39°19'25.642"N	80°46'04.686"W	4815.52	153.938	1.97	0.39	-1.93	
12044.00	89.690	149.720	6942.03	4897.08	-4406.54	2163.90	1706081.25	14279831.25	39°19'24.843"N	80°46'04.075"W	4909.19	153.846	1.35	-0.36	1.30	
12137.00	89.850	151.650	6942.40	4989.35	-4487.63	2209.43	1706129.26	14279750.20	39°19'24.041"N	80°46'03.498"W	5002.04	153.787	2.08	0.17	2.08	
12232.00	89.970	157.090	6942.55	5084.13	-4573.25	2250.51	1706170.32	14279664.61	39°19'23.193"N	80°46'02.978"W	5097.00	153.798	5.73	0.13	5.73	
12325.00	90.060	158.500	6942.53	5177.13	-4659.35	2285.66	1706205.45	14279578.54	39°19'22.342"N	80°46'02.534"W	5189.78	153.870	1.52	0.10	1.52	
12419.00	90.220	159.940	6942.30	5271.10	-4747.23	2319.01	1706238.79	14279490.70	39°19'21.472"N	80°46'02.112"W	5283.37	153.965	1.54	0.17	1.53	
12514.00	90.890	161.300	6941.38	5365.99	-4836.84	2350.53	1706270.30	14279401.12	39°19'20.586"N	80°46'01.714"W	5377.74	154.082	1.60	0.71	1.43	
12609.00	90.250	157.770	6940.43	5460.93	-4925.83	2383.74	1706303.49	14279312.17	39°19'19.705"N	80°46'01.294"W	5472.29	154.176	3.78	-0.67	-3.72	
12703.00	90.060	155.080	6940.18	5554.89	-5011.98	2421.33	1706341.07	14279226.06	39°19'18.853"N	80°46'00.819"W	5566.21	154.214	2.87	-0.20	-2.86	
12797.00	90.060	154.210	6940.08	5648.74	-5096.92	2461.58	1706381.31	14279141.15	39°19'18.012"N	80°46'00.309"W	5660.21	154.222	0.93	0.00	-0.93	
12890.00	90.030	153.390	6940.01	5741.50	-5180.36	2502.64	1706422.35	14279057.74	39°19'17.187"N	80°45'59.790"W	5753.21	154.215	0.88	-0.03	-0.88	
12984.00	90.120	156.600	6939.88	5835.37	-5265.54	2542.37	1706462.06	14278972.59	39°19'16.344"N	80°45'59.287"W	5847.18	154.227	3.42	0.10	3.41	
13079.00	90.400	158.490	6939.45	5930.36	-5353.33	2578.65	1706498.33	14278884.84	39°19'15.475"N	80°45'58.828"W	5942.02	154.280	2.01	0.29	1.99	
13173.00	90.310	158.160	6938.87	6024.36	-5440.69	2613.37	1706533.04	14278797.52	39°19'14.611"N	80°45'58.389"W	6035.79	154.343	0.36	-0.10	-0.35	
13267.00	90.400	159.550	6938.29	6118.34	-5528.35	2647.28	1706566.93	14278709.89	39°19'13.743"N	80°45'57.961"W	6129.50	154.412	1.48	0.10	1.48	
13361.00	90.370	160.910	6937.65	6212.26	-5616.81	2679.07	1706598.71	14278621.47	39°19'12.868"N	80°45'57.559"W	6223.02	154.500	1.45	-0.03	1.45	
13455.00	90.180	162.530	6937.20	6306.04	-5706.06	2708.55	1706628.18	14278532.25	39°19'11.986"N	80°45'57.187"W	6316.28	154.607	1.74	-0.20	1.72	
13551.00	90.000	160.350	6937.05	6401.85	-5797.06	2739.11	1706658.72	14278441.29	39°19'11.085"N	80°45'56.801"W	6411.60	154.709	2.28	-0.18	-2.27	
13645.00	90.400	158.680	6936.72	6495.81	-5885.11	2772.00	1706691.61	14278353.27	39°19'10.214"N	80°45'56.385"W	6505.27	154.779	1.83	0.43	-1.78	
13738.00	89.480	155.530	6936.82	6588.79	-5970.78	2808.18	1706727.77	14278267.64	39°19'09.367"N	80°45'55.928"W	6598.18	154.811	3.53	-0.99	-3.39	
13831.00	90.460	156.130	6936.87	6681.72	-6055.62	2846.26	1706765.83	14278182.83	39°19'08.527"N	80°45'55.446"W	6691.17	154.826	1.24	1.05	0.65	
13925.00	90.520	156.730	6936.07	6775.69	-6141.78	2883.84	1706803.40	14278096.71	39°19'07.675"N	80°45'54.971"W	6785.13	154.848	0.64	0.06	0.64	
14020.00	90.620	156.210	6935.12	6870.66	-6228.87	2921.77	1706841.31	14278009.65	39°19'06.813"N	80°45'54.491"W	6880.09	154.870	0.56	0.11	-0.55	
14114.00	90.490	154.010	6934.21	6964.54	-6314.13	2961.33	1706880.85	14277924.42	39°19'05.969"N	80°45'53.991"W	6974.07	154.873	2.34	-0.14	-2.34	



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION		Convair Unit 1H
Area	Doddridge Co., WV		Convair Unit 1H AWB
Field	Doddridge		
Facility	Alexander Pad		

WELLPATH DATA (197 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
14207.00	90.490	155.380	6933.42	7057.39	-6398.20	3001.08	1706920.59	14277840.38	39°19'05.137"N	80°45'53.488"W	7067.07	154.871	1.47	0.00	1.47	
14301.00	90.460	158.780	6932.64	7151.36	-6484.77	3037.68	1706957.17	14277753.86	39°19'04.281"N	80°45'53.025"W	7160.98	154.900	3.62	-0.03	3.62	
14395.00	90.580	159.840	6931.78	7245.33	-6572.70	3070.89	1706990.37	14277665.96	39°19'03.411"N	80°45'52.605"W	7254.70	154.957	1.13	0.13	1.13	
14489.00	90.460	162.760	6930.93	7339.15	-6661.72	3101.02	1707020.49	14277576.97	39°19'02.530"N	80°45'52.225"W	7348.12	155.038	3.11	-0.13	3.11	
14583.00	90.310	161.280	6930.30	7432.90	-6751.13	3130.03	1707049.49	14277487.90	39°19'01.646"N	80°45'51.859"W	7441.43	155.126	1.58	-0.16	-1.57	
14678.00	90.490	161.020	6929.63	7527.74	-6841.03	3160.73	1707080.18	14277397.73	39°19'00.756"N	80°45'51.471"W	7535.91	155.202	0.33	0.19	-0.27	
14771.00	90.580	160.320	6928.77	7620.62	-6928.78	3191.51	1707110.95	14277310.01	39°18'59.888"N	80°45'51.082"W	7628.48	155.258	0.76	0.10	-0.75	
14865.00	90.520	160.180	6927.86	7714.54	-7017.25	3223.27	1707142.70	14277221.58	39°18'59.013"N	80°45'50.681"W	7722.13	155.329	0.16	-0.06	-0.15	
14961.00	90.550	160.250	6926.97	7810.45	-7107.58	3255.77	1707175.18	14277131.29	39°18'58.119"N	80°45'50.271"W	7817.78	155.389	0.08	0.03	0.07	
15056.00	90.650	160.510	6925.97	7905.36	-7197.06	3287.66	1707207.06	14277041.85	39°18'57.234"N	80°45'49.868"W	7912.42	155.449	0.29	0.11	0.27	
15150.00	90.550	159.440	6924.99	7999.29	-7285.37	3319.85	1707239.23	14276953.57	39°18'56.361"N	80°45'49.461"W	8006.12	155.502	1.14	-0.11	-1.14	
15243.00	90.520	158.940	6924.12	8092.26	-7372.30	3352.89	1707272.26	14276866.68	39°18'55.500"N	80°45'49.044"W	8098.93	155.544	0.54	-0.03	-0.54	
15338.00	90.620	159.400	6923.17	8187.23	-7461.08	3386.67	1707306.03	14276777.92	39°18'54.622"N	80°45'48.617"W	8193.74	155.586	0.50	0.11	0.48	
15431.00	90.520	159.950	6922.25	8280.18	-7548.29	3418.97	1707338.32	14276690.75	39°18'53.759"N	80°45'48.209"W	8286.50	155.632	0.60	-0.11	0.59	
15525.00	90.520	158.510	6921.40	8374.14	-7636.17	3452.30	1707371.63	14276602.90	39°18'52.890"N	80°45'47.788"W	8380.31	155.672	1.53	0.00	-1.53	
15535.00	90.620	158.100	6921.30	8384.14	-7645.47	3456.00	1707375.33	14276593.62	39°18'52.798"N	80°45'47.741"W	8390.30	155.675	4.22	1.00	-4.10	
15557.00	90.620	158.100	6921.06	8406.14	-7665.88	3464.20	1707383.53	14276573.21	39°18'52.596"N	80°45'47.637"W	8412.27	155.682	0.00	0.00	0.00	Projected MD @ TD: 15557'



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557

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REFERENCE WELLPATH IDENTIFICATION

Operator	Area	Field	Facility	Slot	Slot #08
ANTERO RESOURCES CORPORATION	Doddridge Co., WV	Doddridge	Alexander Pad	Well	Convair Unit 1H
				Wellbore	Convair Unit 1H AWB

HOLE & CASING SECTIONS - Ref Wellbore: Convair Unit 1H AWB Ref Wellpath: Convair Unit 1H AWP Proj: 15557

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	-0.12	0.00	-0.12
17.5in Open Hole	105.00	583.00	478.00	105.00	582.99	-0.12	-1.22	-0.12	-2.09
13.375in Casing Surface	25.00	583.00	558.00	25.00	582.99	0.00	-1.22	0.00	-2.09
12.25in Open Hole	583.00	2575.20	1992.20	582.99	2575.16	-1.22	0.89	-2.09	-4.10
9.625in Casing Intermediate	25.00	2575.20	2550.20	25.00	2575.16	0.00	0.89	0.00	-4.10
8.75in Open Hole	2575.20	6281.00	3705.80	2575.16	6239.79	0.89	490.22	-4.10	-42.70
8.5in Open Hole	6281.00	15557.00	9276.00	6239.79	6921.06	490.22	-7665.88	-42.70	3464.20
5.5in Casing Production	25.00	15557.00	15532.00	25.00	6921.06	0.00	-7665.88	0.00	3464.20

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Convair Unit 1H POE Rev-1	6847.00	94.93	263.04	1704183.64	14284330.94	39°20'09.382"N	80°46'28.119"W	point
Convair Unit 1H AZI Rev-1	6888.00	-400.21	539.11	1704459.60	14283836.00	39°20'04.481"N	80°46'24.622"W	point
Convair Unit 1H BHL Rev-1	6888.00	-7666.31	3494.12	1707413.44	14276572.78	39°18'52.591"N	80°45'47.257"W	point
Convair Unit 1H LP Rev-1	6888.00	-107.62	389.61	1704310.16	14284128.46	39°20'07.377"N	80°46'26.515"W	point



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Convair Unit 1H
Field	Doddridge	Wellbore	Convair Unit 1H AWB
Facility	Alexander Pad		

WELLPATH COMPOSITION - Ref Wellbore: Convair Unit 1H AWB Ref Wellpath: Convair Unit 1H AWP Proj: 15557'			
Start MD ft	End MD ft	Positional Uncertainty Model	Log Name/Comment
25.00	567.00	Gyrodatta standard - Drop gyro or Multi-shot	01_Gyrodatta MS Gyro <17-1/2">(100'-567')
567.00	715.00	Gyrodatta standard - Drop gyro or Multi-shot	02_Gyrodatta MS Gyro <12-1/4">(667')(715)
715.00	2506.00	ISCVSA WWD, Rev. 4 (Standard)	03_WFT EM <12-1/4">(715')(829'-2506')
2506.00	6203.00	ISCVSA WWD, Rev. 4 (Standard)	04_WFT EM <8-3/4">(2506')(2660'-6203)
6203.00	15535.00	BHI AutoTrak Curve (Short)	05_BH AT Curve <8-1/2">(6203')(6256'-15535)
15535.00	15557.00	Blind Drilling (std)	Projection to bit

05/03/2019



Actual Wellpath Report

Convair Unit 1H AWP Proj: 15557

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Convair Unit 1H
Field	Doddridge	Wellbore	Convair Unit 1H AWB
Facility	Alexander Pad		

COMMENTS

Wellpath general comments
 API: 47-017-06858-0000
 BH Job #: 9131883
 Rig: Patterson 342
 Duration: 04/25/18 - 04/29/18
 Gyrodatta MS Gyro <17-1/2">(100'-567')
 Gyrodatta MS Gyro <12-1/4">(567')(715')
 WFT EM <12-1/4">(715')(829'-2506')
 WFT EM <8-3/4">(2506')(2660'-6203')
 BH AT Curve <8-1/2">(6203')(6256'-15535')
 Burket: 6952'MD / 6771'TVD
 Tully: 7018'MD / 6801'TVD
 Hamilton: 7119'MD / 6840'TVD
 POE Marcellus: 7153'MD / 6851'TVD
 Projected MD @ TD: 15557'

05/03/2019