



ANTERO RESOURCES CORPORATION

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



Slot: Slot #05
 Well: Scorpio Unit 1H
 Wellbore: Scorpio Unit 1H PWB

Plot reference wellpath is Scorpio Unit 1H PWP Rev-A.0	Grid System: NAD27 UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Measured depths are referenced to Patterson 342 (RKB)	Scale: True distance
Patterson 342 (RKB) to Mean Sea Level: 1206 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #05): -1181 feet	Created by: mccreth on 2018-05-29
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn

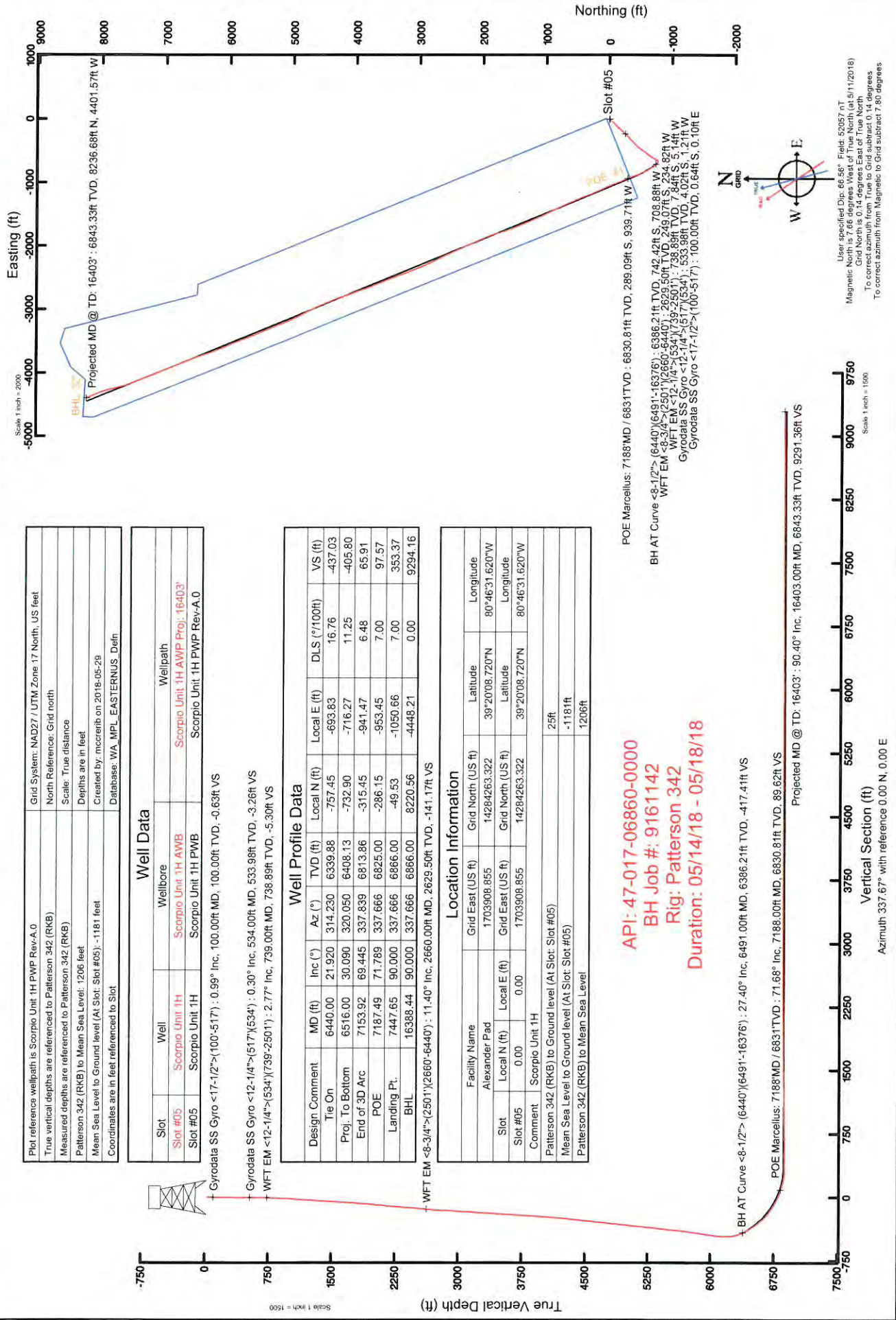
Slot	Well	Wellbore	Wellpath
Slot #05	Scorpio Unit 1H	Scorpio Unit 1H AWPB	Scorpio Unit 1H AWPB Proj: 16403*
Slot #05	Scorpio Unit 1H	Scorpio Unit 1H PWB	Scorpio Unit 1H PWP Rev-A.0

Gyrodata SS Gyro <17-1/2">(100-517') : 0.99° Inc, 100.00ft MD, 100.00ft TVD, -0.63ft VS
 Gyrodata SS Gyro <12-1/4">(517')(534') : 0.30° Inc, 534.00ft MD, 533.98ft TVD, -3.26ft VS
 WFT EM <12-1/4">(534')(739'-2501') : 2.77° Inc, 739.00ft MD, 738.89ft TVD, -5.30ft VS

Well Profile Data					
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	VS (ft)
Tie On	6440.00	21.920	314.230	6339.88	-757.45
Proj. To Bottom	6516.00	30.090	320.050	6408.13	-732.90
End of 3D Arc	7153.92	69.445	337.839	6813.86	-315.45
POE	7187.49	71.789	337.666	6825.00	-286.15
Landing Pt.	7447.65	90.000	337.666	6866.00	-49.53
BHL	16388.44	90.000	337.666	6866.00	8220.56
					-4448.21
					0.00
					9294.16

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Alexander Pad	1703908.855	14284263.322	80°46'31.620"W
Slot	Local N (ft)	Grid North (US ft)	Latitude
Slot #05	0.00	1703908.855	39°20'08.720"N
Comment	Scorpio Unit 1H	14284263.322	39°20'08.720"N
Patterson 342 (RKB) to Ground level (At Slot: Slot #05)			80°46'31.620"W
Mean Sea Level to Ground level (At Slot: Slot #05)			25ft
Patterson 342 (RKB) to Mean Sea Level			-1181ft
			1206ft

API: 47-017-06860-0000
 BH Job #: 9161142
 Rig: Patterson 342
 Duration: 05/14/18 - 05/18/18



User specified Dip: 66.58° Field: 52057 rT
 Magnetic: North is 7.66 degrees West of True North (at 5/11/2018)
 To correct azimuth from True to Grid subtract 0.14 degrees
 To correct azimuth from Magnetic to Grid subtract 7.80 degrees

05/03/2019



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'

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REFERENCE WELLPATH IDENTIFICATION		
Operator	ANTERO RESOURCES CORPORATION	Slot #05
Area	Doddridge Co., WV	Well
Field	Doddridge	Scorpio Unit 1H
Facility	Alexander Pad	Wellbore
		Scorpio Unit 1H AWB

REPORT SETUP INFORMATION		
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System
North Reference	Grid	WellArchitect® 5.1
Scale	0.999605	User
Convergence at slot	0.14° East	Report Generated
		5/29/2018 at 3:44:59 PM
		Database/Source file
		WA_MPL_EASTERNUS_Defn/Scorpio_Unit_1H_AWP_Proj_16403_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1703908.86	14284263.32	39°20'08.720"N	80°46'31.620"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
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Mean Sea Level
MD Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #05)
Field Vertical Reference	Mean Sea Level	Section Origin
		Section Azimuth
		25.00ft
		1206.00ft
		25.00ft
		N 0.00, E 0.00 ft
		337.67°

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Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (206 stations) t = 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 (r/100ft)	Build Rate (r/100ft)	Turn Rate (r/100ft)	Comments
0.00	0.00	170.710	0.00	0.00	0.00	0.00	1703908.86	14284263.32	39°20'08.720"N	80°46'31.620"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	170.710	25.00	0.00	0.00	0.00	1703908.86	14284263.32	39°20'08.720"N	80°46'31.620"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.990	170.710	100.00	-0.63	-0.64	0.10	1703908.96	14284262.68	39°20'08.714"N	80°46'31.619"W	0.65	170.710	1.32	1.32	227.61	Gyrodatta SS Gyro <17.1/2">(100-517')
125.00	1.060	174.410	124.99	-1.06	-1.08	0.16	1703909.05	14284262.24	39°20'08.709"N	80°46'31.618"W	1.09	171.491	0.39	0.28	14.80	
150.00	0.720	177.390	149.99	-1.43	-1.47	0.19	1703909.05	14284261.85	39°20'08.705"N	80°46'31.618"W	1.48	172.570	1.37	-1.36	11.92	
175.00	0.570	200.010	174.99	-1.67	-1.74	0.16	1703909.01	14284261.58	39°20'08.703"N	80°46'31.618"W	1.75	174.878	1.17	-0.60	90.48	
200.00	0.640	203.010	199.99	-1.86	-1.99	0.06	1703908.91	14284261.33	39°20'08.698"N	80°46'31.619"W	1.99	178.297	0.31	0.28	12.00	
225.00	0.660	202.340	224.98	-2.06	-2.25	-0.05	1703908.81	14284261.07	39°20'08.696"N	80°46'31.621"W	2.25	181.277	0.09	0.08	-2.68	
250.00	0.690	204.930	249.98	-2.27	-2.52	-0.17	1703908.69	14284260.80	39°20'08.695"N	80°46'31.622"W	2.53	183.822	0.17	0.12	10.36	
275.00	0.360	218.750	274.98	-2.41	-2.72	-0.28	1703908.57	14284260.60	39°20'08.693"N	80°46'31.624"W	2.73	185.902	1.40	-1.32	55.28	
300.00	0.390	214.750	299.98	-2.49	-2.85	-0.38	1703908.48	14284260.47	39°20'08.692"N	80°46'31.625"W	2.87	187.569	0.16	0.12	-16.00	
325.00	0.380	202.220	324.98	-2.60	-3.00	-0.46	1703908.40	14284260.33	39°20'08.690"N	80°46'31.626"W	3.03	188.701	0.34	-0.44	-50.12	
350.00	0.270	217.380	349.98	-2.69	-3.12	-0.53	1703908.33	14284260.20	39°20'08.689"N	80°46'31.627"W	3.16	189.564	0.55	-0.44	60.64	
375.00	0.290	208.910	374.98	-2.76	-3.22	-0.59	1703908.26	14284260.10	39°20'08.688"N	80°46'31.628"W	3.28	190.411	0.18	0.08	-33.88	
400.00	0.260	219.020	399.98	-2.82	-3.32	-0.66	1703908.20	14284260.00	39°20'08.687"N	80°46'31.628"W	3.39	191.211	0.23	-0.12	40.44	
425.00	0.320	231.710	424.98	-2.87	-3.41	-0.75	1703908.11	14284259.91	39°20'08.686"N	80°46'31.630"W	3.49	192.390	0.35	0.24	50.76	
450.00	0.470	216.350	449.98	-2.94	-3.53	-0.86	1703907.99	14284259.79	39°20'08.685"N	80°46'31.631"W	3.64	193.742	0.73	0.60	-61.44	
475.00	0.410	209.680	474.98	-3.05	-3.69	-0.97	1703907.89	14284259.63	39°20'08.684"N	80°46'31.632"W	3.82	194.702	0.32	-0.24	-26.68	
500.00	0.410	213.560	499.98	-3.15	-3.85	-1.06	1703907.79	14284259.48	39°20'08.682"N	80°46'31.634"W	3.99	195.449	0.11	0.00	16.52	
517.00	0.430	215.710	516.98	-3.22	-3.95	-1.13	1703907.72	14284259.37	39°20'08.681"N	80°46'31.635"W	4.11	196.021	0.15	0.12	12.65	
534.00	0.300	239.380	533.98	-3.26	-4.02	-1.21	1703907.65	14284259.30	39°20'08.680"N	80°46'31.636"W	4.20	196.730	1.16	-0.76	139.24	Gyrodatta SS Gyro <12-1/4">(517')(534')
739.00	2.770	224.360	738.99	-5.30	-7.84	-5.14	1703903.72	14284255.49	39°20'08.643"N	80°46'31.686"W	9.37	213.228	1.21	1.20	-7.33	WFT EM <12-1/4">(534')(739-2501')
830.00	5.110	228.410	829.67	-7.51	-12.10	-9.70	1703899.15	14284251.22	39°20'08.601"N	80°46'31.744"W	15.51	218.725	2.59	2.57	4.45	
924.00	7.550	226.110	923.09	-11.16	-19.16	-17.29	1703881.58	14284244.17	39°20'08.531"N	80°46'31.841"W	25.81	222.053	2.61	2.60	-2.45	
1019.00	9.190	223.970	1017.07	-16.50	-28.95	-27.05	1703861.81	14284234.38	39°20'08.435"N	80°46'31.965"W	39.82	223.059	1.76	1.73	-2.25	
1113.00	9.990	222.680	1109.76	-22.96	-40.35	-37.79	1703871.08	14284222.99	39°20'08.322"N	80°46'32.102"W	55.28	223.127	0.88	0.85	-1.37	
1207.00	9.740	220.230	1202.37	-30.07	-52.41	-48.45	1703860.42	14284210.93	39°20'08.203"N	80°46'32.238"W	71.38	222.753	0.52	-0.27	-2.61	
1301.00	9.630	221.990	1295.03	-37.14	-64.33	-58.85	1703850.03	14284199.02	39°20'08.086"N	80°46'32.371"W	87.18	222.454	0.34	-0.12	1.87	
1395.00	10.860	229.530	1387.53	-43.31	-75.92	-70.85	1703838.04	14284187.43	39°20'07.971"N	80°46'32.524"W	103.84	223.021	1.93	1.31	8.02	
1490.00	11.280	231.060	1480.76	-48.75	-87.57	-84.88	1703824.01	14284175.79	39°20'07.857"N	80°46'32.703"W	121.95	224.108	0.54	0.44	1.61	



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (206 stations)

ID (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
1584.00	11.380	229.030	1572.93	-54.34	-99.03	-99.03	1703809.86	14284163.94	39°20'07.740"N	80°46'32.864"W	140.33	224.887	0.44	0.11	-2.16	
1679.00	11.620	229.080	1666.03	-60.39	-111.84	-113.34	1703795.56	14284151.53	39°20'07.617"N	80°46'33.066"W	159.23	225.383	0.25	0.25	0.05	
1773.00	11.350	226.720	1758.14	-66.71	-124.38	-127.23	1703781.68	14284138.99	39°20'07.494"N	80°46'33.243"W	177.92	225.649	0.58	-0.29	-2.51	
1868.00	9.510	222.770	1851.57	-73.36	-136.55	-139.36	1703769.55	14284126.83	39°20'07.374"N	80°46'33.398"W	195.11	225.584	2.08	-1.94	-4.16	
1962.00	8.520	215.630	1944.41	-80.32	-147.91	-148.69	1703760.22	14284115.47	39°20'07.262"N	80°46'33.517"W	209.73	225.151	1.59	-1.05	-7.60	
2056.00	10.000	213.300	2037.18	-88.63	-160.39	-157.23	1703751.69	14284102.99	39°20'07.139"N	80°46'33.626"W	224.61	224.430	1.62	1.57	-2.48	
2150.00	11.730	216.150	2129.59	-97.98	-174.54	-167.07	1703741.86	14284088.85	39°20'06.999"N	80°46'33.752"W	241.61	223.746	1.32	1.20	3.03	
2245.00	12.660	222.740	2222.55	-107.16	-189.59	-179.54	1703729.39	14284073.81	39°20'06.811"N	80°46'33.911"W	261.11	223.440	2.15	1.61	6.94	
2339.00	11.730	226.790	2314.43	-114.91	-203.70	-193.50	1703715.44	14284059.79	39°20'06.711"N	80°46'34.089"W	280.95	223.528	1.34	-0.99	4.31	
2434.00	10.600	223.780	2407.63	-121.89	-216.62	-206.58	1703702.36	14284046.79	39°20'06.584"N	80°46'34.256"W	299.33	223.641	1.34	-1.19	3.17	
2501.00	10.790	221.780	2473.47	-127.12	-225.75	-215.02	1703693.92	14284037.66	39°20'06.494"N	80°46'34.364"W	311.76	223.606	0.62	0.28	-2.95	
2660.00	11.400	218.950	2629.50	-141.17	-249.07	-234.82	1703674.13	14284014.35	39°20'06.284"N	80°46'34.616"W	342.31	223.313	0.51	0.38	-1.78	MFT EM <8-3/4">(2501\2660\6440)
2755.00	9.540	223.020	2722.91	-148.97	-262.12	-246.09	1703662.88	14284001.30	39°20'06.135"N	80°46'34.760"W	359.54	223.193	2.11	-1.96	4.28	
2849.00	8.740	227.500	2815.72	-154.68	-272.65	-256.67	1703652.29	14283990.79	39°20'06.032"N	80°46'34.895"W	374.45	223.272	1.14	-0.85	4.77	
2943.00	8.010	226.060	2908.72	-159.55	-282.01	-266.65	1703642.31	14283981.42	39°20'05.939"N	80°46'35.023"W	388.12	223.396	0.81	-0.78	-1.53	
3038.00	8.950	225.060	3002.68	-164.83	-291.83	-276.65	1703632.31	14283971.61	39°20'05.842"N	80°46'35.150"W	402.12	223.471	1.00	0.99	-1.05	
3132.00	10.350	226.660	3095.35	-170.67	-302.79	-287.97	1703621.00	14283960.65	39°20'05.734"N	80°46'35.294"W	417.86	223.563	1.52	1.49	1.70	
3232.00	10.210	225.370	3286.13	-183.66	-327.22	-313.27	1703595.71	14283936.23	39°20'05.494"N	80°46'35.617"W	436.03	223.677	0.29	0.26	-0.71	
3326.00	10.210	225.370	3286.13	-183.66	-327.22	-313.27	1703595.71	14283936.23	39°20'05.494"N	80°46'35.617"W	453.00	223.752	0.44	-0.43	-0.62	
3421.00	9.640	223.470	3379.71	-190.12	-338.91	-324.73	1703584.25	14283924.54	39°20'05.378"N	80°46'35.763"W	469.37	223.776	0.69	-0.60	-2.00	
3515.00	10.040	226.240	3472.33	-196.34	-350.29	-336.06	1703572.92	14283913.17	39°20'05.266"N	80°46'35.908"W	485.43	223.813	0.66	0.43	2.95	
3609.00	10.970	228.530	3564.75	-202.27	-361.88	-348.68	1703560.31	14283901.58	39°20'05.152"N	80°46'36.059"W	502.53	223.936	1.08	0.99	2.44	
3704.00	10.870	228.860	3658.03	-208.12	-373.76	-362.20	1703548.80	14283889.71	39°20'05.035"N	80°46'36.241"W	520.47	224.100	0.12	-0.11	0.35	
3799.00	10.400	228.590	3751.40	-213.81	-385.33	-375.38	1703535.62	14283878.15	39°20'04.921"N	80°46'36.410"W	537.95	224.251	0.50	-0.49	-0.28	
3894.00	10.190	226.440	3844.87	-219.65	-396.79	-387.90	1703521.11	14283866.69	39°20'04.808"N	80°46'36.569"W	554.89	224.351	0.46	-0.22	-2.25	
3989.00	10.000	224.850	3938.40	-225.90	-408.43	-399.81	1703509.21	14283855.06	39°20'04.693"N	80°46'36.721"W	571.54	224.389	0.36	-0.20	-1.67	
4083.00	10.610	225.000	4030.88	-232.40	-420.33	-411.68	1703497.34	14283843.16	39°20'04.576"N	80°46'36.873"W	588.36	224.404	0.65	0.65	0.16	
4177.00	10.970	224.530	4123.22	-239.25	-432.83	-424.07	1703484.95	14283830.67	39°20'04.452"N	80°46'37.031"W	605.95	224.415	0.39	0.38	-0.50	
4271.00	10.950	218.450	4215.51	-247.12	-446.20	-435.90	1703473.13	14283817.30	39°20'04.321"N	80°46'37.192"W	623.78	224.331	1.23	-0.02	-6.47	
4365.00	11.130	213.510	4307.17	-256.57	-460.75	-446.46	1703462.57	14283802.75	39°20'04.177"N	80°46'37.316"W	641.57	224.097	1.02	0.19	-5.28	



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (206 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (P/100ft)	Build Rate (P/100ft)	Turn Rate (P/100ft)	Comments
4459.00	10.560	212.780	4400.09	-266.59	-475.56	456.13	1703452.91	14283787.95	39°20'04.031"N	80°46'37.440"W	658.95	223.805	0.62	-0.61	-0.78	
4554.00	10.500	214.690	4493.49	-276.29	-490.00	-465.77	1703443.27	14283773.52	39°20'03.888"N	80°46'37.563"W	676.05	223.548	0.37	-0.06	2.01	
4648.00	10.880	217.000	4585.86	-285.47	-504.12	-475.98	1703433.06	14283759.40	39°20'03.749"N	80°46'37.694"W	693.33	223.356	0.61	0.40	2.46	
4742.00	11.260	214.570	4678.11	-295.01	-518.77	-486.53	1703422.52	14283744.78	39°20'03.605"N	80°46'37.828"W	711.22	223.163	0.64	0.40	-2.59	
4836.00	11.000	216.250	4770.34	-304.70	-533.55	-497.04	1703412.01	14283729.98	39°20'03.459"N	80°46'37.962"W	729.20	222.971	0.44	-0.28	1.79	
4931.00	11.490	213.580	4863.52	-314.73	-548.75	-507.63	1703401.42	14283714.79	39°20'03.309"N	80°46'38.098"W	747.54	222.771	0.75	0.52	-2.81	
5025.00	11.880	216.090	4955.57	-325.04	-564.37	-518.51	1703390.55	14283699.18	39°20'03.155"N	80°46'38.237"W	766.40	222.575	0.68	0.41	2.67	
5120.00	11.440	215.210	5048.61	-335.22	-579.96	-529.70	1703379.36	14283683.59	39°20'03.001"N	80°46'38.380"W	785.46	222.407	0.50	-0.46	-0.93	
5214.00	10.600	221.310	5140.88	-344.06	-594.08	-540.79	1703368.28	14283669.48	39°20'02.852"N	80°46'38.521"W	803.35	222.312	1.53	-0.89	6.49	
5308.00	11.300	221.100	5233.17	-352.02	-607.51	-552.55	1703356.53	14283656.05	39°20'02.729"N	80°46'38.671"W	821.21	222.287	0.75	0.74	-0.22	
5402.00	11.860	214.680	5325.29	-361.31	-622.26	-564.01	1703345.07	14283641.31	39°20'02.584"N	80°46'38.818"W	839.83	222.189	1.41	0.38	-6.83	
5496.00	11.410	209.300	5417.40	-372.25	-638.18	-573.96	1703335.12	14283625.59	39°20'02.426"N	80°46'38.945"W	858.32	221.967	1.17	-0.27	-5.72	
5591.00	10.570	214.340	5510.65	-382.88	-653.57	-583.48	1703325.61	14283610.01	39°20'02.275"N	80°46'39.066"W	876.13	221.757	1.34	-0.88	5.31	
5685.00	10.860	216.900	5603.02	-392.14	-667.77	-593.66	1703315.43	14283595.81	39°20'02.134"N	80°46'39.196"W	893.50	221.637	0.59	0.31	2.72	
5780.00	12.170	212.010	5696.10	-402.56	-683.42	-604.34	1703304.76	14283580.17	39°20'01.980"N	80°46'39.333"W	912.30	221.486	1.72	1.38	-5.15	
5874.00	13.040	208.080	5787.84	-415.09	-701.18	-614.58	1703294.52	14283562.42	39°20'01.805"N	80°46'39.464"W	932.40	221.235	1.30	0.93	-4.18	
5968.00	13.970	211.060	5879.24	-428.62	-720.26	-625.43	1703283.67	14283543.35	39°20'01.617"N	80°46'39.602"W	953.90	220.969	1.24	0.99	3.17	
6063.00	11.240	204.560	5971.95	-441.79	-738.51	-635.20	1703273.91	14283525.11	39°20'01.436"N	80°46'39.727"W	974.10	220.699	3.23	-2.87	-6.84	
6157.00	11.530	207.640	6064.15	-454.44	-755.22	-644.59	1703266.52	14283508.40	39°20'01.271"N	80°46'39.822"W	991.61	220.393	2.72	1.00	12.94	
6204.00	11.570	222.690	6110.21	-459.45	-762.85	-647.97	1703251.14	14283500.78	39°20'01.196"N	80°46'39.890"W	1000.90	220.345	6.39	0.09	32.02	
6252.00	11.490	242.440	6157.26	-461.92	-768.60	-655.47	1703235.64	14283495.03	39°20'01.139"N	80°46'39.986"W	1010.14	220.458	8.19	-0.17	41.15	
6299.00	11.100	259.640	6203.36	-461.41	-771.58	-664.08	1703245.04	14283492.05	39°20'01.110"N	80°46'40.096"W	1018.00	220.718	7.19	-0.83	36.60	
6346.00	11.570	282.790	6249.47	-457.76	-771.35	-673.13	1703235.99	14283492.28	39°20'01.113"N	80°46'40.211"W	1023.76	221.110	9.67	1.00	49.26	
6393.00	14.640	304.440	6295.27	-450.07	-766.94	-682.63	1703226.50	14283496.68	39°20'01.157"N	80°46'40.332"W	1026.74	221.671	12.21	6.53	46.06	
6440.00	21.920	314.230	6339.88	-437.03	-757.45	-693.83	1703215.30	14283506.17	39°20'01.251"N	80°46'40.474"W	1027.20	222.490	16.76	15.49	20.83	
6491.00	30.410	315.570	6386.21	-417.41	-742.42	-708.88	1703200.26	14283351.20	39°20'01.400"N	80°46'40.665"W	1026.50	223.676	10.80	10.75	2.63	BHAT Curve <-8-1/2"> (6440)-(16376)
6550.00	30.410	318.770	6437.85	-390.70	-721.50	-728.24	1703180.90	14283542.11	39°20'01.607"N	80°46'40.911"W	1025.13	225.267	5.72	5.10	5.34	
6597.00	33.050	323.550	6477.83	-367.01	-702.24	-743.71	1703165.44	14283561.36	39°20'01.797"N	80°46'41.107"W	1022.86	226.643	7.79	5.62	10.28	
6644.00	35.880	327.150	6516.58	-341.04	-680.35	-758.80	1703150.36	14283583.24	39°20'02.014"N	80°46'41.298"W	1019.15	228.120	7.42	6.02	7.66	



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (206 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)	(°)	(ft/100ft)	(ft/100ft)	(°/100ft)	
6691.00	38.580	326.850	6654.00	-313.10	-656.51	-774.29	17031134.88	14283607.07	39°20'02.250"N	80°46'41.495"W	1015.15	229.706	5.76	5.74	-0.64	
6738.00	41.260	328.580	6590.05	-283.39	-631.01	-790.38	1703118.79	14283632.56	39°20'02.503"N	80°46'41.699"W	1011.37	231.398	6.17	5.70	3.68	
6785.00	44.300	332.560	6624.54	-251.73	-603.21	-806.03	1703103.14	14283660.36	39°20'02.778"N	80°46'41.897"W	1006.75	233.190	8.65	6.47	8.47	
6832.00	48.130	335.060	6657.06	-217.88	-572.76	-820.98	1703088.20	14283690.79	39°20'03.079"N	80°46'42.086"W	1001.03	235.098	9.01	8.15	5.32	
6879.00	52.070	335.490	6687.20	-181.87	-540.01	-836.06	1703073.13	14283723.52	39°20'03.403"N	80°46'42.277"W	995.29	237.141	8.41	8.38	0.91	
6926.00	54.670	335.190	6715.24	-144.18	-505.74	-851.79	1703057.40	14283757.79	39°20'03.742"N	80°46'42.476"W	990.62	239.301	5.56	5.53	-0.64	
6983.00	58.400	336.200	6746.67	-96.67	-462.41	-871.35	1703037.85	14283801.10	39°20'04.171"N	80°46'42.724"W	986.45	242.046	6.71	6.54	1.77	
7021.00	60.680	337.830	6765.93	-63.92	-432.25	-884.14	1703025.07	14283831.24	39°20'04.469"N	80°46'42.886"W	985.53	242.946	7.05	5.98	4.35	Burket: 6998MD / 6754TVD
7060.00	64.098	339.016	6784.01	-29.37	-400.12	-896.84	1703012.37	14283863.36	39°20'04.787"N	80°46'43.046"W	982.05	245.956	9.17	8.76	3.04	Tully: 7060MD / 6784TVD
7088.00	64.800	339.250	6787.46	-22.15	-393.38	-899.41	1703009.80	14283870.10	39°20'04.854"N	80°46'43.079"W	981.67	246.377	9.17	8.78	2.93	
7115.00	68.030	338.790	6806.26	20.90	-353.16	-914.83	1702994.39	14283910.30	39°20'05.252"N	80°46'43.274"W	980.63	248.881	6.93	6.87	-0.98	
7162.00	71.360	339.040	6822.57	64.96	-312.04	-930.69	1702978.54	14283951.41	39°20'05.659"N	80°46'43.474"W	981.60	251.465	7.10	7.09	0.53	Hamilton: 7162MD / 6823TVD
7188.00	71.684	338.026	6830.81	89.62	-289.09	-939.71	1702969.52	14283974.34	39°20'05.886"N	80°46'43.589"W	983.17	252.900	3.90	1.25	-3.90	POE Marcellus: 7188MD / 6831TVD
7209.00	71.950	337.210	6837.36	109.57	-270.64	-947.31	1702961.92	14283992.79	39°20'06.068"N	80°46'43.685"W	985.21	254.055	3.90	1.27	-3.89	
7256.00	75.410	337.330	6850.57	154.67	-229.05	-964.73	1702944.51	14284034.37	39°20'06.480"N	80°46'43.905"W	991.55	256.644	7.37	7.36	0.26	
7304.00	78.410	338.190	6861.44	201.42	-185.78	-982.42	1702926.82	14284077.62	39°20'06.908"N	80°46'44.129"W	999.84	259.292	6.49	6.25	1.79	
7351.00	83.210	338.520	6868.94	247.80	-142.66	-999.53	1702909.72	14284120.71	39°20'07.334"N	80°46'44.345"W	1009.66	261.877	10.24	10.21	0.70	
7399.00	87.630	338.750	6872.77	295.62	-98.12	-1016.96	1702892.30	14284165.24	39°20'07.775"N	80°46'44.566"W	1021.68	264.489	9.22	9.21	0.48	
7425.00	91.020	338.750	6873.08	321.61	-73.89	-1026.38	1702882.88	14284189.46	39°20'08.015"N	80°46'44.685"W	1029.04	265.882	13.04	13.04	0.00	
7493.00	90.280	335.770	6872.08	389.61	-10.73	-1051.57	1702867.71	14284252.60	39°20'08.640"N	80°46'45.003"W	1051.62	269.415	2.14	-1.59	-1.44	
7587.00	90.150	335.030	6872.44	483.57	75.40	-1089.19	1702820.09	14284338.69	39°20'09.492"N	80°46'45.480"W	1091.80	273.960	2.92	0.22	-2.91	
7776.00	90.650	337.500	6871.32	672.48	248.06	-1166.02	1702743.30	14284511.28	39°20'11.200"N	80°46'46.452"W	1192.11	282.010	1.88	0.39	1.84	
7871.00	91.020	339.560	6869.93	767.45	336.45	-1200.78	1702674.70	14284599.64	39°20'12.075"N	80°46'46.892"W	1247.03	285.653	2.20	0.39	2.17	
7965.00	90.550	338.200	6868.64	861.42	424.13	-1234.65	1702674.70	14284687.28	39°20'12.942"N	80°46'47.320"W	1305.47	288.959	1.53	-0.50	-1.45	
8060.00	90.650	337.650	6867.65	956.41	512.16	-1270.35	1702639.01	14284775.28	39°20'13.813"N	80°46'47.772"W	1369.71	291.958	0.59	0.11	-0.58	
8155.00	90.740	336.310	6866.50	1051.40	599.59	-1307.50	1702601.88	14284862.67	39°20'14.678"N	80°46'48.242"W	1438.42	294.635	1.41	0.09	-1.41	
8249.00	90.680	336.210	6865.33	1145.36	685.63	-1345.34	1702564.05	14284948.68	39°20'15.529"N	80°46'48.721"W	1509.97	297.005	0.12	-0.06	-0.11	
8343.00	90.620	334.230	6864.27	1239.26	770.96	-1384.73	1702524.67	14285033.98	39°20'16.374"N	80°46'49.219"W	1584.89	299.107	2.11	-0.06	-2.11	



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (206 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
8438.00	90.770	335.480	6863.11	1334.14	856.95	-1425.09	1702484.33	14285119.93	39°20'17.224"N	80°46'49.730"W	1662.91	301.020	1.33	0.16	1.32	
8533.00	90.710	334.490	6861.89	1429.03	943.03	-1465.26	1702444.18	14285205.98	39°20'18.076"N	80°46'50.239"W	1742.50	302.765	1.04	-0.06	-1.04	
8628.00	90.740	334.860	6860.68	1523.89	1028.89	-1505.89	1702403.56	14285291.81	39°20'18.926"N	80°46'50.753"W	1823.83	304.343	0.39	0.03	0.39	
8722.00	90.740	336.720	6859.47	1617.83	1114.62	-1544.44	1702365.03	14285377.50	39°20'19.774"N	80°46'51.241"W	1904.64	305.818	1.98	0.00	1.98	
8816.00	90.740	334.910	6858.26	1711.77	1200.35	-1582.94	1702326.54	14285463.20	39°20'20.622"N	80°46'51.729"W	1986.59	307.173	1.93	0.00	-1.93	
8910.00	91.020	337.460	6856.81	1805.71	1286.33	-1620.89	1702288.61	14285549.14	39°20'21.473"N	80°46'52.209"W	2069.29	308.435	2.73	0.30	2.73	
9005.00	90.710	338.350	6855.38	1900.70	1374.35	-1656.62	1702252.89	14285637.12	39°20'22.344"N	80°46'52.661"W	2152.49	309.679	0.99	-0.33	0.94	
9099.00	90.830	338.340	6854.07	1994.69	1461.70	-1691.30	1702218.22	14285724.44	39°20'23.208"N	80°46'53.100"W	2235.42	310.835	0.19	0.19	-0.01	
9194.00	90.650	338.460	6852.79	2089.67	1550.02	-1726.27	1702183.27	14285812.73	39°20'24.082"N	80°46'53.542"W	2320.04	311.921	0.28	-0.25	0.13	
9288.00	90.650	342.410	6851.72	2183.54	1638.57	-1757.74	1702151.81	14285901.24	39°20'24.958"N	80°46'53.940"W	2403.04	312.990	4.20	0.00	4.20	
9383.00	90.370	342.370	6850.88	2278.21	1729.12	-1786.48	1702123.08	14285991.75	39°20'25.853"N	80°46'54.303"W	2486.24	314.065	0.30	-0.28	-0.04	
9478.00	90.120	341.190	6850.47	2372.96	1819.35	-1816.19	1702093.39	14286081.95	39°20'26.746"N	80°46'54.678"W	2570.71	315.050	1.27	-0.26	-1.24	
9572.00	90.060	337.930	6850.32	2466.90	1907.42	-1849.01	1702060.58	14286169.99	39°20'27.617"N	80°46'55.093"W	2656.52	315.891	3.47	0.06	-3.47	
9665.00	90.060	336.300	6850.23	2559.89	1993.10	-1885.17	1702024.43	14286255.63	39°20'28.465"N	80°46'55.551"W	2743.41	316.594	1.75	0.00	-1.75	
9760.00	90.000	337.150	6850.18	2654.88	2080.37	-1922.71	1701986.91	14286342.86	39°20'29.328"N	80°46'56.026"W	2832.80	317.255	0.90	-0.06	0.88	
9854.00	90.090	336.630	6850.10	2748.87	2166.82	-1959.61	1701950.03	14286429.28	39°20'30.183"N	80°46'56.493"W	2921.50	317.875	0.56	0.10	-0.55	
9948.00	90.000	336.010	6850.03	2842.84	2252.91	-1997.36	1701912.29	14286515.33	39°20'31.035"N	80°46'56.971"W	3010.82	318.441	0.67	-0.10	-0.66	
10043.00	89.970	336.390	6850.03	2937.79	2339.49	-2036.45	1701873.21	14286601.88	39°20'31.892"N	80°46'57.466"W	3101.67	318.961	0.65	0.00	-0.65	
10137.00	89.970	336.390	6850.05	3031.74	2425.29	-2074.85	1701834.83	14286687.65	39°20'32.741"N	80°46'57.962"W	3191.71	319.453	1.06	-0.03	1.06	
10232.00	90.150	337.170	6849.95	3126.73	2512.59	-2112.30	1701797.39	14286774.92	39°20'33.605"N	80°46'58.426"W	3282.52	319.947	0.84	0.19	0.82	
10326.00	90.030	334.560	6849.81	3220.67	2598.37	-2150.74	1701758.97	14286860.66	39°20'34.453"N	80°46'58.913"W	3373.01	320.385	2.78	-0.13	-2.78	
10421.00	90.060	334.020	6849.78	3315.51	2683.96	-2191.95	1701717.78	14286946.22	39°20'35.300"N	80°46'59.435"W	3465.30	320.762	0.57	-0.03	-0.57	
10515.00	90.060	333.050	6849.73	3409.26	2768.11	-2233.84	1701675.90	14287030.33	39°20'36.133"N	80°46'59.965"W	3557.03	321.097	1.03	0.06	-1.03	
10610.00	89.910	333.970	6849.76	3504.01	2853.14	-2276.21	1701633.55	14287115.33	39°20'36.974"N	80°47'00.502"W	3649.87	321.417	0.98	-0.16	0.97	
10704.00	89.910	337.710	6849.90	3597.94	2938.89	-2314.68	1701595.10	14287201.04	39°20'37.823"N	80°47'00.989"W	3740.96	321.776	3.98	0.00	3.98	
10799.00	90.060	338.430	6849.93	3692.94	3027.01	-2350.16	1701559.63	14287289.13	39°20'38.694"N	80°47'01.438"W	3832.24	322.174	0.77	0.16	0.76	
10894.00	90.030	338.740	6849.85	3787.93	3115.45	-2384.85	1701524.96	14287377.54	39°20'39.569"N	80°47'01.877"W	3923.46	322.566	0.33	-0.03	0.33	
10988.00	90.120	339.410	6849.73	3881.90	3203.25	-2418.42	1701491.40	14287465.30	39°20'40.438"N	80°47'02.301"W	4013.67	322.948	0.72	0.10	0.71	
11083.00	90.060	340.140	6849.58	3976.84	3292.40	-2451.26	1701458.57	14287554.41	39°20'41.320"N	80°47'02.717"W	4104.70	323.332	0.77	-0.06	0.77	
11177.00	90.000	339.870	6849.53	4070.76	3380.73	-2483.40	1701426.44	14287642.71	39°20'42.194"N	80°47'03.123"W	4194.83	323.700	0.29	-0.06	-0.29	



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH DATA (206 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
11271.00	90.090	338.820	6849.46	4164.72	3468.69	-2516.56	1701393.30	14287730.63	39°20'43.064"N	80°47'03.542"W	4285.42	324.039	1.12	0.10	-1.12	
11365.00	90.060	337.210	6849.34	4258.71	3555.85	-2551.75	1701358.12	14287817.76	39°20'43.926"N	80°47'03.988"W	4376.70	324.336	1.71	-0.03	-1.71	
11459.00	89.940	337.070	6849.34	4352.71	3642.47	-2588.26	1701321.62	14287904.34	39°20'44.783"N	80°47'04.450"W	4468.41	324.603	0.20	-0.13	-0.13	
11553.00	89.820	338.640	6849.53	4446.70	3729.53	-2623.70	1701286.20	14287991.37	39°20'45.644"N	80°47'04.898"W	4559.95	324.874	1.68	-0.13	1.67	
11647.00	90.090	339.660	6849.61	4540.67	3817.37	-2657.15	1701252.76	14288079.18	39°20'46.513"N	80°47'05.321"W	4651.11	325.159	1.12	0.23	1.09	
11741.00	89.970	340.400	6849.56	4634.59	3905.72	-2689.26	1701220.67	14288167.49	39°20'47.387"N	80°47'05.727"W	4742.02	325.451	0.80	-0.13	0.79	
11836.00	90.060	341.020	6849.53	4729.46	3995.38	-2720.64	1701189.30	14288257.12	39°20'48.274"N	80°47'06.124"W	4833.73	325.747	0.66	0.09	0.65	
11930.00	90.090	340.130	6849.41	4823.33	4084.03	-2751.90	1701158.05	14288345.73	39°20'49.151"N	80°47'06.519"W	4924.66	326.027	0.95	0.03	-0.95	
12024.00	89.910	339.300	6849.41	4917.27	4172.20	-2784.49	1701125.47	14288433.87	39°20'50.023"N	80°47'06.932"W	5016.04	326.281	0.90	-0.13	-0.88	
12118.00	90.060	339.230	6849.43	5011.24	4260.11	-2817.77	1701092.21	14288521.74	39°20'50.893"N	80°47'07.352"W	5107.68	326.518	0.18	0.16	-0.07	
12212.00	90.120	338.360	6849.29	5105.22	4347.75	-2851.77	1701058.22	14288609.34	39°20'51.760"N	80°47'07.783"W	5199.57	326.738	0.93	0.06	-0.93	
12307.00	90.150	338.390	6849.06	5200.21	4436.06	-2886.78	1701023.22	14288697.62	39°20'52.634"N	80°47'08.226"W	5292.65	326.946	0.04	0.03	0.03	
12401.00	90.030	337.440	6848.91	5294.21	4523.16	-2922.12	1700987.89	14288784.69	39°20'53.495"N	80°47'08.673"W	5384.96	327.136	1.02	-0.13	-1.01	
12495.00	90.000	335.720	6848.89	5388.19	4609.42	-2959.48	1700950.55	14288870.91	39°20'54.349"N	80°47'09.146"W	5477.71	327.297	1.83	-0.03	-1.83	
12590.00	89.910	334.160	6848.96	5483.08	4695.47	-2999.72	1700910.33	14288956.93	39°20'55.200"N	80°47'09.655"W	5571.87	327.427	1.64	-0.09	-1.64	
12684.00	90.120	333.420	6848.94	5576.86	4779.81	-3041.24	1700868.83	14289041.23	39°20'56.035"N	80°47'10.181"W	5665.30	327.533	0.82	0.22	-0.79	
12778.00	89.780	333.450	6849.02	5670.60	4863.88	-3083.27	1700826.81	14289125.27	39°20'56.867"N	80°47'10.714"W	5758.81	327.629	0.36	-0.36	0.03	
12873.00	89.380	334.970	6849.72	5765.43	4949.41	-3124.60	1700785.49	14289210.77	39°20'57.713"N	80°47'11.237"W	5853.19	327.735	1.65	-0.42	1.60	
12968.00	89.480	336.010	6850.66	5860.35	5035.85	-3164.01	1700746.10	14289297.17	39°20'58.568"N	80°47'11.736"W	5947.33	327.859	1.10	0.11	1.09	
13062.00	89.720	337.060	6851.32	5954.33	5122.07	-3201.44	1700708.69	14289383.36	39°20'59.421"N	80°47'12.210"W	6040.27	327.993	1.15	0.26	1.12	
13157.00	89.940	336.540	6851.60	6049.32	5210.03	-3237.33	1700672.81	14289471.28	39°21'00.291"N	80°47'12.665"W	6133.90	328.145	1.58	0.23	1.56	
13251.00	90.550	339.230	6851.20	6143.30	5297.71	-3271.20	1700638.96	14289558.93	39°21'01.159"N	80°47'13.093"W	6226.27	328.306	0.98	0.63	0.73	
13346.00	90.620	336.610	6850.23	6238.29	5385.73	-3306.90	1700603.27	14289646.91	39°21'02.030"N	80°47'13.545"W	6319.95	328.450	2.76	0.07	-2.76	
13441.00	89.380	336.330	6850.23	6333.26	5472.83	-3344.83	1700565.36	14289733.98	39°21'02.891"N	80°47'14.025"W	6414.03	328.568	1.34	-1.31	-0.29	
13536.00	89.540	337.460	6851.13	6428.25	5560.21	-3382.20	1700528.09	14289821.32	39°21'03.756"N	80°47'14.497"W	6508.04	328.689	1.20	0.17	1.19	
13630.00	90.650	339.820	6850.97	6522.23	5647.74	-3416.34	1700493.87	14289908.82	39°21'04.622"N	80°47'14.930"W	6600.63	328.830	2.77	1.18	2.51	
13724.00	89.850	338.750	6850.56	6616.19	5735.66	-3449.59	1700460.64	14289996.70	39°21'05.491"N	80°47'15.351"W	6693.09	328.976	1.42	-0.85	-1.14	
13819.00	90.310	338.020	6850.43	6711.18	5823.98	-3484.58	1700425.66	14290084.99	39°21'06.365"N	80°47'15.794"W	6786.83	329.107	0.91	0.48	-0.77	
13914.00	90.310	337.900	6849.91	6806.18	5912.04	-3520.23	1700390.02	14290173.01	39°21'07.236"N	80°47'16.245"W	6880.71	329.229	0.13	0.00	-0.13	
14008.00	90.220	337.090	6849.48	6900.18	5998.88	-3556.21	1700352.06	14290259.82	39°21'08.095"N	80°47'16.700"W	6973.75	329.340	0.87	-0.10	-0.86	



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Alexander Pad
Slot	Slot #05
Well	Scorpio Unit 1H
Wellbore	Scorpio Unit 1H AWB

WELLPATH DATA (206 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
14103.00	89.970	337.390	6849.32	6995.17	6086.48	-3592.96	1700317.32	14290347.38	39°21'08.962"N	80°47'17.165"W	7067.86	329.446	0.41	-0.26	0.32	
14197.00	89.720	338.030	6849.57	7089.17	6173.45	-3628.62	1700281.68	14290434.32	39°21'09.823"N	80°47'17.617"W	7160.89	329.554	0.73	-0.27	0.68	
14292.00	90.180	339.180	6849.66	7184.16	6261.91	-3663.27	1700247.04	14290522.74	39°21'10.698"N	80°47'18.055"W	7254.72	329.672	1.30	0.48	1.21	
14386.00	90.950	342.720	6848.73	7277.98	6350.74	-3693.95	1700216.38	14290611.54	39°21'11.576"N	80°47'18.443"W	7346.91	329.815	3.85	0.82	3.77	
14481.00	90.220	340.700	6847.76	7372.74	6440.93	-3723.76	1700186.58	14290701.69	39°21'12.468"N	80°47'18.820"W	7439.89	329.966	2.26	-0.77	-2.13	
14576.00	90.310	339.290	6847.32	7467.65	6530.19	-3756.25	1700154.09	14290790.92	39°21'13.351"N	80°47'19.231"W	7533.45	330.092	1.49	0.09	-1.48	
14671.00	90.340	337.960	6846.78	7562.64	6618.66	-3790.88	1700119.48	14290879.35	39°21'14.226"N	80°47'19.669"W	7627.41	330.198	1.40	0.03	-1.40	
14766.00	90.370	337.420	6846.19	7657.64	6706.54	-3826.94	1700083.44	14290967.20	39°21'15.096"N	80°47'20.125"W	7721.61	330.290	0.57	0.03	-0.57	
14859.00	89.780	338.090	6846.07	7750.63	6792.62	-3862.15	1700048.24	14291053.24	39°21'15.948"N	80°47'20.571"W	7813.83	330.378	0.96	-0.63	0.72	
14954.00	89.880	337.760	6846.35	7845.63	6880.66	-3897.85	1700012.55	14291141.24	39°21'16.818"N	80°47'21.023"W	7908.01	330.489	0.36	0.11	-0.35	
15048.00	89.910	337.430	6846.53	7939.63	6967.56	-3933.68	1699976.74	14291228.11	39°21'17.678"N	80°47'21.476"W	8001.29	330.552	0.35	0.03	-0.35	
15143.00	89.850	338.090	6846.72	8034.63	7055.49	-3969.63	1699940.80	14291316.01	39°21'18.548"N	80°47'21.932"W	8095.55	330.637	0.70	-0.06	0.69	
15238.00	90.030	338.320	6846.82	8129.63	7143.70	-4004.91	1699905.54	14291404.18	39°21'19.421"N	80°47'22.378"W	8189.73	330.724	0.31	0.19	0.24	
15333.00	89.880	337.090	6846.90	8224.63	7231.60	-4040.95	1699869.52	14291492.05	39°21'20.290"N	80°47'22.834"W	8284.04	330.804	1.30	-0.16	-1.29	
15428.00	89.940	337.450	6847.05	8319.62	7319.22	-4077.65	1699832.82	14291579.63	39°21'21.157"N	80°47'23.299"W	8378.44	330.877	0.38	0.06	0.38	
15523.00	90.000	337.580	6847.10	8414.62	7407.00	-4113.98	1699796.51	14291667.38	39°21'22.026"N	80°47'23.759"W	8472.81	330.951	0.15	0.06	0.14	
15617.00	89.970	337.640	6847.12	8508.62	7493.91	-4149.79	1699760.71	14291754.25	39°21'22.885"N	80°47'24.212"W	8566.18	331.024	0.07	-0.03	0.06	
15712.00	89.880	340.710	6847.25	8603.58	7582.69	-4183.56	1699726.96	14291843.00	39°21'23.764"N	80°47'24.639"W	8650.22	331.113	3.23	-0.09	3.23	
15807.00	90.310	344.500	6847.09	8698.21	7673.33	-4211.96	1699698.57	14291933.60	39°21'24.660"N	80°47'24.998"W	8733.32	331.237	4.02	0.45	3.99	
15902.00	90.250	346.110	6846.62	8792.36	7765.22	-4236.05	1699674.49	14292025.46	39°21'25.569"N	80°47'25.302"W	8845.50	331.387	1.70	-0.06	1.69	
15997.00	91.020	346.430	6845.57	8886.29	7857.50	-4258.60	1699651.95	14292117.70	39°21'26.481"N	80°47'25.587"W	8937.34	331.543	0.88	0.81	0.34	
16092.00	89.940	342.730	6844.78	8980.58	7949.06	-4283.85	1699626.70	14292209.22	39°21'27.387"N	80°47'25.905"W	9029.89	331.679	4.06	-1.14	-3.89	
16187.00	89.940	337.880	6844.88	9075.44	8038.50	-4315.78	1699594.79	14292298.63	39°21'28.272"N	80°47'26.309"W	9123.79	331.769	5.00	0.00	-5.00	
16281.00	90.650	337.350	6844.39	9169.44	8125.45	-4351.50	1699559.08	14292385.54	39°21'29.132"N	80°47'26.761"W	9217.29	331.829	1.01	0.76	-0.67	
16376.00	90.400	334.760	6843.52	9264.39	8212.26	-4390.06	1699520.54	14292472.32	39°21'29.991"N	80°47'27.250"W	9312.03	331.872	2.74	-0.26	-2.73	
16403.00	90.400	334.760	6843.33	9291.36	8236.88	-4401.57	1699509.04	14292496.73	39°21'30.232"N	80°47'27.395"W	9338.99	331.881	0.00	0.00	0.00	Projected MD @ TD: 16403'



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Scorpio Unit 1H AWB Ref Wellpath: Scorpio Unit 1H AWP Proj: 16403'										
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]	End E/W [ft]
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	0.00	0.00	0.00	-0.73
17.5in Open Hole	105.00	573.10	468.10	105.00	573.07	-0.73	-0.73	0.12	0.12	-4.25
13.375in Casing Surface	25.00	573.10	548.10	25.00	573.07	0.00	0.00	0.00	0.00	-1.49
12.25in Open Hole	573.10	1998.60	1998.60	573.07	2542.89	-4.25	-4.25	-1.49	-1.49	-235.84
9.625in Casing Intermediate	25.00	2571.70	2546.70	25.00	2542.89	0.00	0.00	0.00	0.00	-223.83
8.75in Open Hole	2571.70	6516.00	3944.30	2542.89	6408.27	-235.84	-235.84	-223.83	-223.83	-717.00
8.5in Open Hole	6516.00	16403.00	9887.00	6408.27	6843.33	-733.93	-733.93	-717.00	-717.00	-4401.57
5.5in Casing Surface	25.00	16403.00	16378.00	25.00	6843.33	0.00	0.00	0.00	0.00	-4401.57

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Scorpio Unit 1H POE - Rev-2	6825.00	-286.15	-953.45	1702955.79	14283977.29	39°20'05.915"N	80°48'43.763"W	point
Scorpio Unit 1H BHL - Rev-2	6866.00	8220.56	-4448.21	1699462.41	14292480.62	39°21'30.074"N	80°47'27.990"W	point
Scorpio Unit 1H LP - Rev-1	6866.00	-49.53	-1050.66	1702858.62	14284213.81	39°20'08.256"N	80°48'44.993"W	point

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Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

WELLPATH COMPOSITION - Ref Wellbore: Scorpio Unit 1H AWB Ref Wellpath: Scorpio Unit 1H AWP Proj: 16403'			
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment
25.00	517.00	Gyrodata standard - Single-shot	01 Gyrodata SS Gyro <17-1/2">(100'-517')
517.00	534.00	Gyrodata standard - Single-shot	02 Gyrodata SS Gyro <12-1/4">(517')(534')
534.00	2501.00	ISCWSA MWD, Rev. 4 (Standard)	03 WFT EM <12-1/4">(534')(739'-2501')
2501.00	6440.00	ISCWSA MWD, Rev. 4 (Standard)	04 WFT EM <8-3/4">(2501')(2660'-6440')
6440.00	16376.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(6440')(6491'-16376')
16376.00	16403.00	Blind Drilling (std)	Projection to bit

05/03/2019



Actual Wellpath Report

Scorpio Unit 1H AWP Proj: 16403'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Doddridge Co., WV	Well	Scorpio Unit 1H
Field	Doddridge	Wellbore	Scorpio Unit 1H AWB
Facility	Alexander Pad		

COMMENTS
<p>Wellpath general comments API: 47-017-06860-0000 BH Job #: 9161142 Rig: Patterson 342 Duration: 05/14/18 - 05/18/18 Gyrodata SS Gyro <17-1/2">(100'-517') Gyrodata SS Gyro <12-1/4">(517')(534') WFT EM <12-1/4">(534')(739'-2501') WFT EM <8-3/4">(2501')(2660'-6440') BH AT Curve <8-1/2"> (6440')(6491'-16376') Burket: 6998'MD / 6754'TVD Tully: 7060'MD / 6784'TVD Hamilton: 7162'MD / 6823'TVD POE Marcellus: 7188'MD / 6831'TVD Projected MD @ TD: 16403'</p>

05/03/2019