



ANTERO RESOURCES CORPORATION



Location: Tyler County, WV
Field: Tyler
Facility: Pyles Pad

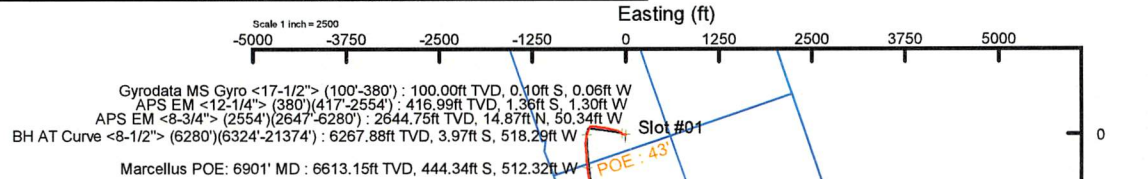
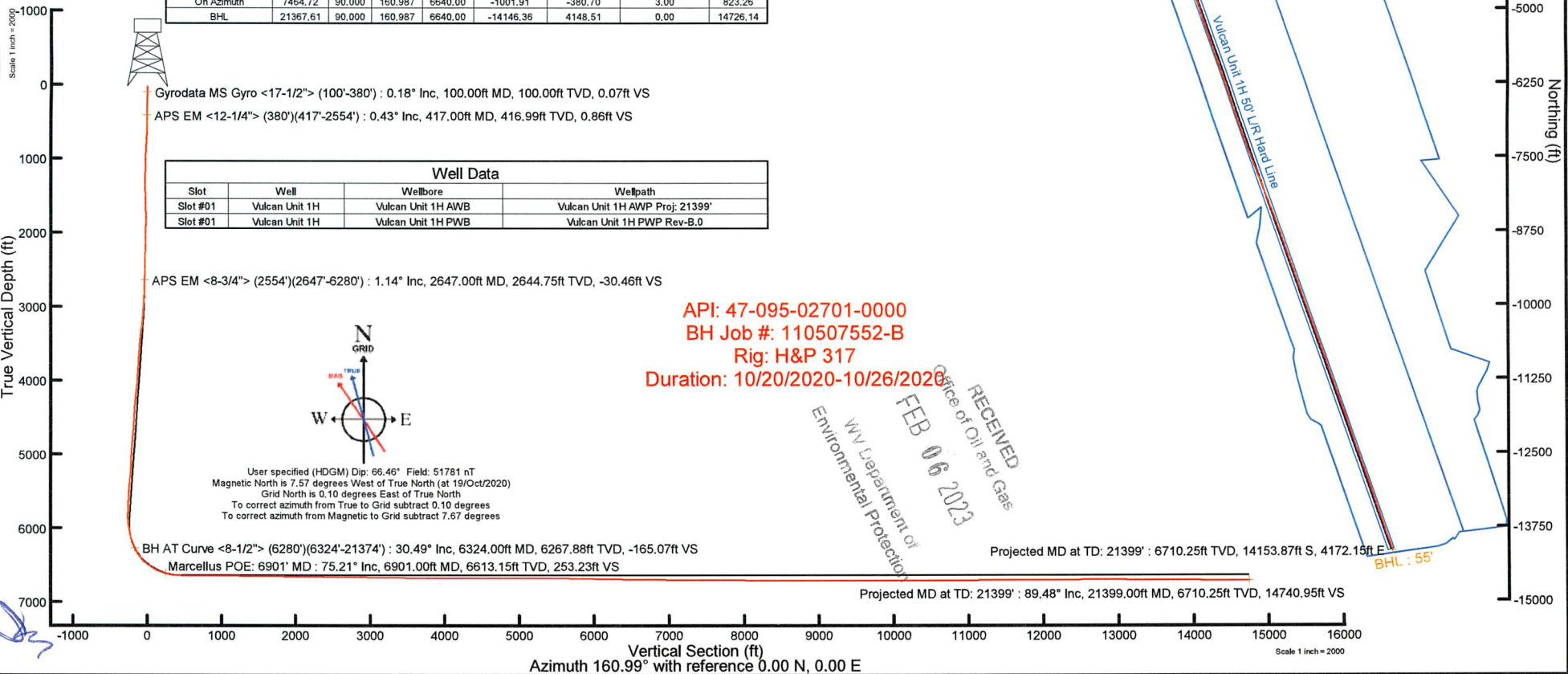
Slot: Slot #01
Well: Vulcan Unit 1H
Wellbore: Vulcan Unit 1H PWB

Plot reference wellpath is Vulcan Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM, Zone 17 North, US feet
True vertical depths are referenced to H&P 317 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 317 (RKB)	Scale: True distance
H&P 317 (RKB) to Mean Sea Level: 1106.5 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #01): -1081 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2020-10-27; Database: WA, MPL, EASTERN_US_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Pyles Pad	1686309.101	14345436.083	39°30'13.9340"N	80°50'14.2940"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #01	44.93	2.19	1686311.292	14345480.993	39°30'14.3780"N
Comment	Vulcan Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot #01)			25.5ft		
Mean Sea Level to Ground level (At Slot: Slot #01)			-1081ft		
H&P 317 (RKB) to Mean Sea Level			1106.5ft		

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2554.00	1.160	337.340	2551.77	13.08	-49.91	0.44	-28.63
Proj. to Bottom	2632.00	1.160	337.340	2629.76	14.54	-50.52	0.00	-30.20
KOP 1	2790.00	1.160	337.340	2787.72	17.49	-51.75	0.00	-33.39
End of 3D Arc	3188.23	8.502	278.422	3184.37	25.53	-82.48	2.00	-51.01
Curve KOP	5932.10	8.502	278.422	5898.09	84.95	-483.76	0.00	-237.89
POE	6894.97	74.514	172.273	6614.00	-447.02	-493.26	8.00	261.97
Landing Pt.	7088.54	90.000	172.273	6640.00	-636.51	-467.55	8.00	449.50
On Azimuth	7464.72	90.000	160.987	6640.00	-1001.91	-380.70	3.00	823.26
BHL	21367.61	90.000	160.987	6640.00	-14146.36	4148.51	0.00	14726.14

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #01	Vulcan Unit 1H	Vulcan Unit 1H AWB	Vulcan Unit 1H AWP Proj: 21399'
Slot #01	Vulcan Unit 1H	Vulcan Unit 1H PWB	Vulcan Unit 1H PWP Rev-B.0



Gyrodatta MS Gyro <17-1/2"> (100'-380') : 100.00ft TVD, 0.10ft S, 0.06ft W
 APS EM <12-1/4"> (380')(417'-2554') : 416.99ft TVD, 1.36ft S, 1.30ft W
 APS EM <8-3/4"> (2554')(2647'-6280') : 2644.75ft TVD, 14.87ft N, 50.34ft W
 BH AT Curve <8-1/2"> (6280')(6324'-21374') : 6267.88ft TVD, 3.97ft S, 518.29ft W
 Marcellus POE: 6901' MD : 6613.15ft TVD, 444.34ft S, 512.32ft W

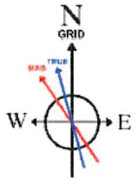
Gyrodatta MS Gyro <17-1/2"> (100'-380') : 0.18° Inc, 100.00ft MD, 100.00ft TVD, 0.07ft VS
 APS EM <12-1/4"> (380')(417'-2554') : 0.43° Inc, 417.00ft MD, 416.99ft TVD, 0.86ft VS

APS EM <8-3/4"> (2554')(2647'-6280') : 1.14° Inc, 2647.00ft MD, 2644.75ft TVD, -30.46ft VS

BH AT Curve <8-1/2"> (6280')(6324'-21374') : 30.49° Inc, 6324.00ft MD, 6267.88ft TVD, -165.07ft VS
 Marcellus POE: 6901' MD : 75.21° Inc, 6901.00ft MD, 6613.15ft TVD, 253.23ft VS

Projected MD at TD: 21399' : 89.48° Inc, 21399.00ft MD, 6710.25ft TVD, 14740.95ft VS

API: 47-095-02701-0000
 BH Job #: 110507552-B
 Rig: H&P 317
 Duration: 10/20/2020-10/26/2020



User specified (HDGM) Dip: 66.46° Field: 51781 nT
 Magnetic North is 7.57 degrees West of True North (at 19/Oct/2020)
 Grid North is 0.10 degrees East of True North
 To correct azimuth from True to Grid subtract 0.10 degrees
 To correct azimuth from Magnetic to Grid subtract 7.67 degrees



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Vulcan Unit 1H AWP Proj: 21399'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999602	Report Generated	27/Oct/2020 at 17:11
Convergence at slot	0.10° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	44.93	2.19	1686311.29	14345480.99	39°30'14.3780"N	80°50'14.2650"W
Facility Reference Pt			1686309.10	14345436.08	39°30'13.9340"N	80°50'14.2940"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 317 (RKB) to Facility Vertical Datum	1106.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1106.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot #01)	25.50ft
MD Reference Pt	H&P 317 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.99°

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (251 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]	
0.00†	0.000	211.160	0.00	0.00	0.00	0.00	1686311.29	14345480.99	39°30'14.3780"N	80°50'14.2650"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	211.160	25.50	0.00	0.00	0.00	1686311.29	14345480.99	39°30'14.3780"N	80°50'14.2650"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.180	211.160	100.00	0.07	-0.10	-0.06	1686311.23	14345480.89	39°30'14.3770"N	80°50'14.2658"W	0.12	211.160	0.24	0.24	0.00	Gyrodata MS Gyro <17-1/2"> (100'-380')
200.00	0.320	238.300	200.00	0.24	-0.38	-0.38	1686310.91	14345480.61	39°30'14.3742"N	80°50'14.2698"W	0.54	224.859	0.18	0.14	27.14	
300.00	0.280	219.480	300.00	0.43	-0.72	-0.77	1686310.52	14345480.28	39°30'14.3709"N	80°50'14.2749"W	1.05	227.144	0.11	-0.04	-18.82	
380.00	0.490	222.360	380.00	0.69	-1.12	-1.13	1686310.17	14345479.87	39°30'14.3669"N	80°50'14.2794"W	1.59	225.175	0.26	0.26	3.60	
417.00	0.430	208.590	416.99	0.86	-1.36	-1.30	1686309.99	14345479.63	39°30'14.3646"N	80°50'14.2816"W	1.88	223.731	0.34	-0.16	-37.22	APS EM <12-1/4"> (380')(417'-2554')
507.00	1.530	255.310	506.98	1.00	-1.96	-2.62	1686308.67	14345479.03	39°30'14.3587"N	80°50'14.2985"W	3.28	233.238	1.42	1.22	51.91	
598.00	3.680	266.490	597.88	0.13	-2.45	-6.71	1686304.58	14345478.55	39°30'14.3539"N	80°50'14.3507"W	7.15	249.975	2.42	2.36	12.29	
689.00	5.420	282.130	688.60	-2.88	-1.72	-13.83	1686297.47	14345479.27	39°30'14.3612"N	80°50'14.4415"W	13.94	262.900	2.33	1.91	17.19	
779.00	5.930	284.960	778.15	-7.67	0.37	-22.48	1686288.82	14345481.36	39°30'14.3821"N	80°50'14.5518"W	22.48	270.944	0.65	0.57	3.14	
872.00	6.010	282.910	870.65	-12.93	2.70	-31.87	1686279.44	14345483.69	39°30'14.4052"N	80°50'14.6715"W	31.98	274.840	0.24	0.09	-2.20	
963.00	4.520	283.890	961.26	-17.40	4.62	-39.99	1686271.32	14345485.61	39°30'14.4244"N	80°50'14.7751"W	40.26	276.595	1.64	-1.64	1.08	
1054.00	2.090	287.560	1052.11	-20.33	5.99	-45.05	1686266.26	14345486.98	39°30'14.4380"N	80°50'14.8396"W	45.45	277.567	2.68	-2.67	4.03	
1149.00	1.300	300.510	1147.06	-22.19	7.05	-47.63	1686263.68	14345488.04	39°30'14.4486"N	80°50'14.8725"W	48.15	278.425	0.92	-0.83	13.63	
1244.00	1.490	304.860	1242.03	-24.00	8.31	-49.58	1686261.74	14345489.30	39°30'14.4610"N	80°50'14.8973"W	50.27	279.513	0.23	0.20	4.58	
1339.00	0.650	219.530	1337.02	-24.72	8.60	-50.93	1686260.38	14345489.59	39°30'14.4639"N	80°50'14.9146"W	51.65	279.582	1.66	-0.88	-89.82	
1434.00	1.280	163.000	1432.01	-23.38	7.17	-50.97	1686260.35	14345488.16	39°30'14.4498"N	80°50'14.9150"W	51.47	278.006	1.13	0.66	-59.51	
1529.00	1.390	169.530	1526.98	-21.18	5.02	-50.45	1686260.87	14345486.01	39°30'14.4285"N	80°50'14.9085"W	50.70	275.683	0.20	0.12	6.87	
1624.00	1.480	166.040	1621.95	-18.82	2.70	-49.94	1686261.37	14345483.69	39°30'14.4055"N	80°50'14.9021"W	50.01	273.091	0.13	0.09	-3.67	
1719.00	1.520	164.560	1716.92	-16.34	0.29	-49.31	1686262.00	14345481.28	39°30'14.3818"N	80°50'14.8941"W	49.31	270.339	0.06	0.04	-1.56	
1813.00	0.130	358.380	1810.91	-15.19	-0.80	-48.98	1686262.33	14345480.19	39°30'14.3709"N	80°50'14.8899"W	48.99	269.060	1.75	-1.48	-176.79	
1908.00	1.160	358.020	1905.90	-16.22	0.27	-49.02	1686262.29	14345481.26	39°30'14.3815"N	80°50'14.8903"W	49.02	270.310	1.08	1.08	-0.38	
2003.00	1.200	2.570	2000.88	-18.06	2.22	-49.01	1686262.31	14345483.21	39°30'14.4008"N	80°50'14.8901"W	49.06	272.594	0.11	0.04	4.79	
2098.00	1.110	1.550	2095.86	-19.85	4.13	-48.94	1686262.38	14345485.12	39°30'14.4197"N	80°50'14.8892"W	49.11	274.828	0.10	-0.09	-1.07	
2193.00	0.940	357.830	2190.85	-21.46	5.83	-48.94	1686262.37	14345486.82	39°30'14.4365"N	80°50'14.8892"W	49.29	276.796	0.19	-0.18	-3.92	
2288.00	0.970	359.260	2285.84	-22.96	7.41	-48.98	1686262.33	14345488.40	39°30'14.4522"N	80°50'14.8897"W	49.54	278.608	0.04	0.03	1.51	
2383.00	1.310	353.290	2380.82	-24.79	9.30	-49.12	1686262.19	14345490.29	39°30'14.4708"N	80°50'14.8914"W	49.99	280.719	0.38	0.36	-6.28	
2478.00	1.360	349.450	2475.79	-26.97	11.48	-49.45	1686261.86	14345492.47	39°30'14.4924"N	80°50'14.8956"W	50.77	283.074	0.11	0.05	-4.04	
2554.00	1.160	337.340	2551.77	-28.63	13.08	-49.91	1686261.40	14345494.07	39°30'14.5082"N	80°50'14.9015"W	51.60	284.685	0.44	-0.26	-15.93	

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Vulcan Unit 1H
Field	Tyler		API	47-095-02701-0000
Facility	Pyles Pad		Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01			

WELLPATH DATA (251 stations)																
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]	
2647.00	1.140	356.020	2644.75	-30.46	14.87	-50.34	1686260.97	14345495.86	39°30'14.5259"N	80°50'14.9069"W	52.49	286.459	0.40	-0.02	20.09	APS EM <8-3/4"> (2554')(2647'-6280')
2735.00	1.240	347.840	2732.74	-32.25	16.68	-50.60	1686260.71	14345497.66	39°30'14.5437"N	80°50'14.9102"W	53.28	288.241	0.22	0.11	-9.30	
2824.00	2.490	309.860	2821.69	-34.86	18.86	-52.29	1686259.02	14345499.84	39°30'14.5653"N	80°50'14.9316"W	55.58	289.831	1.90	1.40	-42.67	
2912.00	5.540	299.260	2909.46	-39.67	22.16	-57.46	1686253.85	14345503.14	39°30'14.5980"N	80°50'14.9976"W	61.59	291.088	3.55	3.47	-12.05	
3001.00	6.120	298.000	2998.00	-46.34	26.49	-65.40	1686245.92	14345507.47	39°30'14.6409"N	80°50'15.0987"W	70.56	292.048	0.67	0.65	-1.42	
3089.00	5.540	291.680	3085.55	-52.55	30.26	-73.49	1686237.83	14345511.24	39°30'14.6784"N	80°50'15.2018"W	79.47	292.379	0.98	-0.66	-7.18	
3182.00	6.630	303.120	3178.03	-59.71	34.85	-82.16	1686229.17	14345515.83	39°30'14.7239"N	80°50'15.3123"W	89.24	292.986	1.75	1.17	12.30	
3271.00	9.210	304.050	3266.17	-69.46	41.65	-92.36	1686218.97	14345522.62	39°30'14.7913"N	80°50'15.4424"W	101.32	294.271	2.90	2.90	1.04	
3359.00	9.110	299.150	3353.05	-80.28	48.98	-104.28	1686207.05	14345529.96	39°30'14.8640"N	80°50'15.5943"W	115.21	295.160	0.89	-0.11	-5.57	
3448.00	8.630	290.390	3440.99	-89.77	54.74	-116.70	1686194.64	14345535.71	39°30'14.9211"N	80°50'15.7525"W	128.90	295.131	1.61	-0.54	-9.84	
3536.00	7.940	286.240	3528.07	-97.47	58.74	-128.72	1686182.62	14345539.71	39°30'14.9609"N	80°50'15.9058"W	141.49	294.530	1.04	-0.78	-4.72	
3625.00	7.530	282.460	3616.26	-104.06	61.72	-140.32	1686171.03	14345542.69	39°30'14.9905"N	80°50'16.0537"W	153.29	293.743	0.73	-0.46	-4.25	
3713.00	8.350	279.370	3703.42	-110.11	64.00	-152.25	1686159.10	14345544.97	39°30'15.0133"N	80°50'16.2059"W	165.16	292.801	1.05	0.93	-3.51	
3802.00	7.830	271.770	3791.53	-115.33	65.24	-164.69	1686146.67	14345546.21	39°30'15.0258"N	80°50'16.3645"W	177.14	291.612	1.33	-0.58	-8.54	
3890.00	7.580	281.290	3878.74	-120.38	66.56	-176.37	1686134.99	14345547.53	39°30'15.0390"N	80°50'16.5135"W	188.51	290.677	1.48	-0.28	10.82	
3979.00	8.950	283.590	3966.82	-127.08	69.34	-188.86	1686122.51	14345550.31	39°30'15.0667"N	80°50'16.6727"W	201.18	290.161	1.58	1.54	2.58	
4067.00	9.950	286.260	4053.62	-135.15	73.08	-202.81	1686108.56	14345554.04	39°30'15.1039"N	80°50'16.8507"W	215.57	289.816	1.24	1.14	3.03	
4156.00	10.330	289.250	4141.23	-144.54	77.86	-217.72	1686093.65	14345558.82	39°30'15.1514"N	80°50'17.0408"W	231.23	289.678	0.73	0.43	3.36	
4244.00	9.340	285.830	4227.94	-153.50	82.41	-232.04	1686079.34	14345563.37	39°30'15.1966"N	80°50'17.2234"W	246.24	289.553	1.31	-1.13	-3.89	
4333.00	7.970	282.810	4315.92	-160.88	85.75	-245.01	1686066.38	14345566.71	39°30'15.2299"N	80°50'17.3887"W	259.58	289.289	1.62	-1.54	-3.39	
4421.00	7.070	280.720	4403.17	-166.78	88.11	-256.28	1686055.11	14345569.07	39°30'15.2534"N	80°50'17.5325"W	271.00	288.973	1.07	-1.02	-2.37	
4510.00	6.450	277.780	4491.55	-171.75	89.80	-266.61	1686044.78	14345570.76	39°30'15.2703"N	80°50'17.6643"W	281.33	288.615	0.80	-0.70	-3.30	
4598.00	7.890	279.770	4578.86	-176.89	91.50	-277.46	1686033.94	14345572.46	39°30'15.2873"N	80°50'17.8026"W	292.16	288.251	1.66	1.64	2.26	
4687.00	10.530	271.320	4666.71	-182.66	92.72	-291.62	1686019.79	14345573.68	39°30'15.2996"N	80°50'17.9832"W	306.00	287.639	3.33	2.97	-9.49	
4775.00	11.560	277.470	4753.08	-189.38	94.05	-308.40	1686003.02	14345575.01	39°30'15.3131"N	80°50'18.1972"W	322.42	286.960	1.78	1.17	6.99	
4864.00	10.530	279.610	4840.43	-197.25	96.57	-325.26	1685986.16	14345577.53	39°30'15.3382"N	80°50'18.4123"W	339.29	286.536	1.25	-1.16	2.40	
4952.00	8.930	276.770	4927.16	-204.08	98.72	-339.97	1685971.46	14345579.67	39°30'15.3597"N	80°50'18.5999"W	354.02	286.192	1.90	-1.82	-3.23	
5041.00	7.240	272.910	5015.27	-209.17	99.82	-352.43	1685959.00	14345580.77	39°30'15.3708"N	80°50'18.7589"W	366.30	285.814	1.99	-1.90	-4.34	
5129.00	5.870	262.520	5102.70	-212.14	99.51	-362.43	1685949.00	14345580.47	39°30'15.3680"N	80°50'18.8865"W	375.85	285.353	2.05	-1.56	-11.81	
5217.00	6.490	288.360	5190.20	-216.06	100.50	-371.62	1685939.82	14345581.45	39°30'15.3778"N	80°50'19.0036"W	384.97	285.132	3.21	0.70	29.36	

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Vulcan Unit 1H
Field	Tyler		API	47-095-02701-0000
Facility	Pyles Pad		Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01			

WELLPATH DATA (251 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
5306.00	8.450	295.400	5278.45	-223.69	104.88	-382.30	1685929.14	14345585.84	39°30'15.4214"N	80°50'19.1398"W	396.43	285.342	2.43	2.20	7.91	
5395.00	10.640	283.930	5366.22	-232.74	109.67	-396.18	1685915.27	14345590.62	39°30'15.4689"N	80°50'19.3168"W	411.08	285.473	3.25	2.46	-12.89	
5483.00	10.100	275.350	5452.78	-240.34	112.34	-411.75	1685899.70	14345593.29	39°30'15.4957"N	80°50'19.5154"W	426.80	285.261	1.86	-0.61	-9.75	
5572.00	8.740	269.200	5540.58	-245.67	112.98	-426.29	1685885.18	14345593.93	39°30'15.5022"N	80°50'19.7007"W	441.00	284.844	1.90	-1.53	-6.91	
5660.00	7.620	265.110	5627.69	-249.18	112.39	-438.78	1685872.68	14345593.33	39°30'15.4966"N	80°50'19.8602"W	452.95	284.366	1.43	-1.27	-4.65	
5749.00	8.190	268.240	5715.84	-252.50	111.69	-451.00	1685860.47	14345592.64	39°30'15.4899"N	80°50'20.0161"W	464.62	283.909	0.80	0.64	3.52	
5837.00	7.950	265.960	5802.97	-255.93	111.07	-463.34	1685848.14	14345592.02	39°30'15.4840"N	80°50'20.1735"W	476.46	283.480	0.45	-0.27	-2.59	
5926.00	7.320	230.170	5891.23	-255.51	107.00	-473.84	1685837.65	14345587.95	39°30'15.4439"N	80°50'20.3075"W	485.77	282.725	5.30	-0.71	-40.21	
6014.00	11.460	203.580	5978.07	-247.07	95.39	-481.64	1685829.84	14345576.34	39°30'15.3293"N	80°50'20.4074"W	491.00	281.202	6.70	4.70	-30.22	
6103.00	15.800	204.380	6064.54	-231.75	76.24	-490.19	1685821.30	14345557.20	39°30'15.1402"N	80°50'20.5168"W	496.08	278.840	4.88	4.88	0.90	
6191.00	21.410	203.060	6147.91	-211.11	50.53	-501.43	1685810.06	14345531.50	39°30'14.8863"N	80°50'20.6609"W	503.97	275.754	6.39	6.37	-1.50	
6280.00	26.550	195.590	6229.22	-182.65	16.39	-513.15	1685798.35	14345497.38	39°30'14.5491"N	80°50'20.8111"W	513.41	271.830	6.70	5.78	-8.39	
6324.00	30.490	192.920	6267.88	-165.07	-3.97	-518.29	1685793.21	14345477.03	39°30'14.3480"N	80°50'20.8772"W	518.31	269.561	9.41	8.95	-6.07	BH AT Curve <8-1/2"> (6280')(6324'-21374')
6385.00†	34.247	190.838	6319.39	-137.04	-35.92	-524.98	1685786.52	14345445.08	39°30'14.0323"N	80°50'20.9633"W	526.21	266.086	6.42	6.16	-3.41	Sycamore: 6385' MD
6412.00	35.920	190.040	6341.49	-123.53	-51.18	-527.79	1685783.71	14345429.83	39°30'13.8815"N	80°50'20.9994"W	530.27	264.461	6.42	6.20	-2.95	
6501.00	42.440	183.540	6410.47	-72.89	-106.95	-534.21	1685777.30	14345374.09	39°30'13.3305"N	80°50'21.0826"W	544.81	258.679	8.65	7.33	-7.30	
6536.00†	45.359	180.018	6435.69	-50.21	-131.19	-534.94	1685776.57	14345349.85	39°30'13.0909"N	80°50'21.0925"W	550.79	256.220	10.87	8.34	-10.06	Middlesex: 6536' MD
6589.00	49.960	175.320	6471.39	-12.69	-170.30	-533.29	1685778.22	14345310.76	39°30'12.7043"N	80°50'21.0723"W	559.82	252.289	10.87	8.68	-8.86	
6677.00	56.820	175.060	6523.84	55.75	-240.65	-527.36	1685784.14	14345240.44	39°30'12.0089"N	80°50'20.9983"W	579.68	245.471	7.80	7.80	-0.30	
6692.00†	58.079	175.253	6531.91	68.01	-253.25	-526.30	1685785.21	14345227.85	39°30'11.8844"N	80°50'20.9850"W	584.06	244.304	8.46	8.39	1.29	Burkett: 6692' MD
6725.00	60.850	175.660	6548.67	95.52	-281.58	-524.05	1685787.46	14345199.53	39°30'11.6044"N	80°50'20.9569"W	594.90	241.750	8.46	8.40	1.23	
6743.00†	62.329	176.017	6557.23	110.83	-297.37	-522.90	1685788.60	14345183.74	39°30'11.4483"N	80°50'20.9426"W	601.54	240.373	8.40	8.22	1.98	Tully: 6743' MD
6766.00	64.220	176.460	6567.58	130.65	-317.87	-521.55	1685789.95	14345163.25	39°30'11.2457"N	80°50'20.9259"W	610.78	238.639	8.40	8.22	1.92	
6813.00	68.320	176.560	6586.49	172.09	-360.81	-518.93	1685792.57	14345120.33	39°30'10.8213"N	80°50'20.8935"W	632.04	235.190	8.73	8.72	0.21	
6854.00	72.700	175.850	6600.16	209.38	-399.36	-516.37	1685795.13	14345081.79	39°30'10.4401"N	80°50'20.8617"W	652.79	232.282	10.81	10.68	-1.73	
6901.00†	75.212	173.865	6613.15	253.23	-444.34	-512.32	1685799.18	14345036.83	39°30'9.9955"N	80°50'20.8110"W	678.17	229.064	6.71	5.34	-4.22	Marcellus POE: 6901' MD
6943.00	77.470	172.130	6623.07	293.14	-484.84	-507.34	1685804.15	14344996.34	39°30'9.5951"N	80°50'20.7484"W	701.76	226.299	6.71	5.38	-4.13	
7031.00	85.230	169.710	6636.30	378.77	-570.68	-493.60	1685817.89	14344910.54	39°30'8.7466"N	80°50'20.5751"W	754.53	220.858	9.23	8.82	-2.75	
7120.00	89.350	167.550	6640.51	466.86	-657.81	-476.08	1685835.40	14344823.45	39°30'7.8851"N	80°50'20.3536"W	812.01	215.895	5.23	4.63	-2.43	
7208.00	89.450	168.170	6641.43	554.22	-743.84	-457.57	1685853.90	14344737.45	39°30'7.0345"N	80°50'20.1195"W	873.31	211.598	0.71	0.11	0.70	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (251 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
7296.00	90.000	167.130	6641.85	641.63	-829.80	-438.75	1685872.71	14344651.53	39°30'6.1846"N	80°50'19.8813"W	938.65	207.868	1.34	0.63	-1.18	
7385.00	90.030	163.070	6641.83	730.38	-915.79	-415.87	1685895.59	14344565.57	39°30'5.3344"N	80°50'19.5914"W	1005.79	204.424	4.56	0.03	-4.56	
7473.00	89.600	159.830	6642.11	818.36	-999.20	-387.88	1685923.57	14344482.19	39°30'4.5094"N	80°50'19.2362"W	1071.85	201.216	3.71	-0.49	-3.68	
7562.00	89.170	157.790	6643.07	907.29	-1082.18	-355.71	1685955.72	14344399.25	39°30'3.6888"N	80°50'18.8278"W	1139.14	198.196	2.34	-0.48	-2.29	
7650.00	88.770	157.770	6644.65	995.14	-1163.63	-322.44	1685988.98	14344317.83	39°30'2.8832"N	80°50'18.4052"W	1207.48	195.488	0.46	-0.45	-0.02	
7738.00	89.630	159.580	6645.88	1083.05	-1245.59	-290.44	1686020.96	14344235.90	39°30'2.0726"N	80°50'17.9989"W	1279.01	193.126	2.28	0.98	2.06	
7827.00	89.820	157.560	6646.30	1171.97	-1328.43	-257.93	1686053.47	14344153.09	39°30'1.2532"N	80°50'17.5860"W	1353.24	190.988	2.28	0.21	-2.27	
7915.00	88.890	158.260	6647.29	1259.83	-1409.97	-224.84	1686086.54	14344071.59	39°30'0.4468"N	80°50'17.1657"W	1427.78	189.060	1.32	-1.06	0.80	
8004.00	89.260	160.110	6648.73	1348.77	-1493.14	-193.22	1686118.15	14343988.45	39°29'59.6242"N	80°50'16.7642"W	1505.59	187.373	2.12	0.42	2.08	
8092.00	90.400	161.890	6648.99	1436.77	-1576.34	-164.57	1686146.79	14343905.28	39°29'58.8014"N	80°50'16.4007"W	1584.91	185.960	2.40	1.30	2.02	
8181.00	89.320	159.570	6649.21	1525.76	-1660.35	-135.20	1686176.15	14343821.31	39°29'57.9706"N	80°50'16.0280"W	1665.85	184.655	2.88	-1.21	-2.61	
8269.00	88.890	161.040	6650.59	1613.74	-1743.19	-105.55	1686205.79	14343738.50	39°29'57.1513"N	80°50'15.6516"W	1746.38	183.465	1.74	-0.49	1.67	
8358.00	89.820	161.270	6651.59	1702.73	-1827.41	-76.80	1686234.52	14343654.31	39°29'56.3184"N	80°50'15.2868"W	1829.03	182.407	1.08	1.04	0.26	
8446.00	88.740	159.340	6652.69	1790.71	-1910.25	-47.15	1686264.16	14343571.50	39°29'55.4992"N	80°50'14.9105"W	1910.83	181.414	2.51	-1.23	-2.19	
8535.00	89.380	160.580	6654.15	1879.68	-1993.85	-16.66	1686294.64	14343487.94	39°29'54.6724"N	80°50'14.5234"W	1993.92	180.479	1.57	0.72	1.39	
8623.00	89.260	161.230	6655.20	1967.68	-2077.00	12.13	1686323.42	14343404.82	39°29'53.8501"N	80°50'14.1581"W	2077.04	179.665	0.75	-0.14	0.74	
8712.00	89.600	161.340	6656.08	2056.67	-2161.29	40.68	1686351.96	14343320.56	39°29'53.0165"N	80°50'13.7958"W	2161.68	178.922	0.40	0.38	0.12	
8800.00	89.080	161.200	6657.10	2144.66	-2244.63	68.94	1686380.20	14343237.26	39°29'52.1924"N	80°50'13.4373"W	2245.68	178.241	0.61	-0.59	-0.16	
8889.00	89.170	159.960	6658.46	2233.65	-2328.55	98.53	1686409.78	14343153.37	39°29'51.3624"N	80°50'13.0618"W	2330.64	177.577	1.40	0.10	-1.39	
8977.00	89.260	161.170	6659.66	2321.64	-2411.53	127.81	1686439.05	14343070.43	39°29'50.5418"N	80°50'12.6902"W	2414.91	176.966	1.38	0.10	1.37	
9066.00	89.450	160.950	6660.66	2410.63	-2495.70	156.69	1686467.92	14342986.29	39°29'49.7093"N	80°50'12.3237"W	2500.62	176.407	0.33	0.21	-0.25	
9154.00	89.970	162.100	6661.11	2498.63	-2579.17	184.58	1686495.79	14342902.86	39°29'48.8839"N	80°50'11.9699"W	2585.76	175.907	1.43	0.59	1.31	
9243.00	89.110	160.200	6661.82	2587.62	-2663.39	213.33	1686524.54	14342818.67	39°29'48.0510"N	80°50'11.6051"W	2671.92	175.421	2.34	-0.97	-2.13	
9331.00	89.380	160.470	6662.98	2675.60	-2746.25	242.94	1686554.14	14342735.84	39°29'47.2316"N	80°50'11.2293"W	2756.97	174.945	0.43	0.31	0.31	
9420.00	89.080	160.600	6664.18	2764.59	-2830.15	272.60	1686583.78	14342651.97	39°29'46.4018"N	80°50'10.8530"W	2843.25	174.498	0.37	-0.34	0.15	
9508.00	89.140	159.890	6665.55	2852.57	-2912.96	302.34	1686613.51	14342569.20	39°29'45.5828"N	80°50'10.4755"W	2928.61	174.075	0.81	0.07	-0.81	
9596.00	89.200	159.370	6666.82	2940.54	-2995.45	332.96	1686644.12	14342486.74	39°29'44.7670"N	80°50'10.0868"W	3013.90	173.657	0.59	0.07	-0.59	
9685.00	89.230	160.450	6668.04	3029.51	-3079.02	363.53	1686674.68	14342403.20	39°29'43.9404"N	80°50'9.6988"W	3100.41	173.266	1.21	0.03	1.21	
9774.00	89.540	160.850	6669.00	3118.51	-3162.99	393.02	1686704.15	14342319.26	39°29'43.1100"N	80°50'9.3246"W	3187.32	172.917	0.57	0.35	0.45	
9862.00	89.230	160.720	6669.94	3206.50	-3246.08	421.98	1686733.10	14342236.20	39°29'42.2883"N	80°50'8.9571"W	3273.40	172.593	0.38	-0.35	-0.15	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (251 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
9951.00	89.080	159.660	6671.25	3295.48	-3329.81	452.14	1686763.25	14342152.52	39°29'41.4602"N	80°50'8.5744"W	3360.36	172.267	1.20	-0.17	-1.19	
10039.00	89.690	160.350	6672.20	3383.46	-3412.50	482.23	1686793.32	14342069.86	39°29'40.6425"N	80°50'8.1925"W	3446.40	171.957	1.05	0.69	0.78	
10128.00	88.650	162.510	6673.49	3472.44	-3496.85	510.56	1686821.65	14341985.54	39°29'39.8083"N	80°50'7.8330"W	3533.93	171.693	2.69	-1.17	2.43	
10216.00	89.480	163.170	6674.92	3560.39	-3580.92	536.52	1686847.60	14341901.50	39°29'38.9769"N	80°50'7.5038"W	3620.89	171.479	1.20	0.94	0.75	
10305.00	89.480	162.190	6675.73	3649.34	-3665.88	563.02	1686874.09	14341816.58	39°29'38.1367"N	80°50'7.1678"W	3708.86	171.269	1.10	0.00	-1.10	
10393.00	91.020	163.960	6675.35	3737.28	-3750.06	588.63	1686899.69	14341732.43	39°29'37.3043"N	80°50'6.8430"W	3795.98	171.079	2.67	1.75	2.01	
10481.00	89.350	161.540	6675.06	3825.23	-3834.09	614.73	1686925.77	14341648.43	39°29'36.4733"N	80°50'6.5122"W	3883.06	170.891	3.34	-1.90	-2.75	
10570.00	90.180	161.730	6675.43	3914.22	-3918.56	642.77	1686953.80	14341564.00	39°29'35.6380"N	80°50'6.1565"W	3970.93	170.685	0.96	0.93	0.21	
10658.00	90.000	162.210	6675.29	4002.20	-4002.24	670.01	1686981.03	14341480.36	39°29'34.8105"N	80°50'5.8110"W	4057.93	170.496	0.58	-0.20	0.55	
10835.00	90.280	163.060	6674.86	4179.13	-4171.17	722.83	1687033.83	14341311.49	39°29'33.1399"N	80°50'5.1411"W	4233.33	170.169	0.51	0.16	0.48	
10924.00	88.980	162.290	6675.43	4268.09	-4256.13	749.33	1687060.33	14341226.57	39°29'32.2998"N	80°50'4.8051"W	4321.59	170.015	1.70	-1.46	-0.87	
11012.00	89.420	162.050	6676.66	4356.06	-4339.89	776.28	1687087.26	14341142.84	39°29'31.4714"N	80°50'4.4634"W	4408.77	169.859	0.57	0.50	-0.27	
11101.00	89.320	162.480	6677.64	4445.03	-4424.66	803.39	1687114.36	14341058.11	39°29'30.6331"N	80°50'4.1196"W	4497.00	169.709	0.50	-0.11	0.48	
11189.00	89.600	164.250	6678.47	4532.95	-4508.97	828.58	1687139.54	14340973.83	39°29'29.7994"N	80°50'3.8002"W	4584.46	169.587	2.04	0.32	2.01	
11278.00	90.620	163.070	6678.30	4621.85	-4594.37	853.61	1687164.56	14340888.46	39°29'28.9549"N	80°50'3.4829"W	4672.99	169.475	1.75	1.15	-1.33	
11366.00	88.990	163.290	6678.60	4709.78	-4678.60	879.08	1687190.02	14340804.26	39°29'28.1219"N	80°50'3.1601"W	4760.47	169.359	1.87	-1.85	0.25	
11455.00	89.320	162.500	6679.91	4798.72	-4763.65	905.25	1687216.18	14340719.24	39°29'27.2808"N	80°50'2.8282"W	4848.90	169.240	0.96	0.37	-0.89	
11543.00	91.720	165.020	6679.11	4886.60	-4848.12	929.86	1687240.78	14340634.81	39°29'26.4455"N	80°50'2.5164"W	4936.49	169.143	3.95	2.73	2.86	
11632.00	89.970	161.400	6677.80	4975.51	-4933.30	955.56	1687266.47	14340549.66	39°29'25.6032"N	80°50'2.1905"W	5025.00	169.038	4.52	-1.97	-4.07	
11720.00	90.030	162.200	6677.80	5063.50	-5016.90	983.04	1687293.94	14340466.10	39°29'24.7765"N	80°50'1.8419"W	5112.31	168.914	0.91	0.07	0.91	
11809.00	90.220	162.550	6677.60	5152.47	-5101.72	1009.99	1687320.88	14340381.31	39°29'23.9377"N	80°50'1.5002"W	5200.74	168.802	0.45	0.21	0.39	
11897.00	89.660	161.710	6677.69	5240.45	-5185.48	1036.99	1687347.87	14340297.59	39°29'23.1094"N	80°50'1.1578"W	5288.15	168.691	1.15	-0.64	-0.95	
11986.00	90.000	161.770	6677.96	5329.44	-5269.99	1064.88	1687375.75	14340213.11	39°29'22.2736"N	80°50'0.8041"W	5376.50	168.576	0.39	0.38	0.07	
12074.00	89.820	160.850	6678.10	5417.44	-5353.35	1093.08	1687403.93	14340129.78	39°29'21.4492"N	80°50'0.4464"W	5463.81	168.460	1.07	-0.20	-1.05	
12162.00	89.080	161.300	6678.94	5505.44	-5436.59	1121.62	1687432.46	14340046.57	39°29'20.6260"N	80°50'0.0843"W	5551.08	168.343	0.98	-0.84	0.51	
12251.00	89.910	161.920	6679.73	5594.43	-5521.04	1149.70	1687460.53	14339962.16	39°29'19.7908"N	80°49'59.7282"W	5639.48	168.237	1.16	0.93	0.70	
12339.00	89.290	161.630	6680.34	5682.42	-5604.62	1177.22	1687488.04	14339878.61	39°29'18.9643"N	80°49'59.3791"W	5726.92	168.138	0.78	-0.70	-0.33	
12428.00	89.080	161.580	6681.61	5771.40	-5689.07	1205.30	1687516.11	14339794.20	39°29'18.1292"N	80°49'59.0230"W	5815.34	168.038	0.24	-0.24	-0.06	
12516.00	88.520	162.480	6683.45	5859.37	-5772.76	1232.44	1687543.24	14339710.54	39°29'17.3015"N	80°49'58.6787"W	5902.85	167.949	1.20	-0.64	1.02	
12605.00	88.800	162.560	6685.53	5948.31	-5857.62	1259.17	1687569.96	14339625.71	39°29'16.4623"N	80°49'58.3399"W	5991.43	167.868	0.33	0.31	0.09	

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Vulcan Unit 1H
Field	Tyler		API	47-095-02701-0000
Facility	Pyles Pad		Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01			

WELLPATH DATA (251 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
12693.00	88.980	160.340	6687.24	6036.29	-5941.03	1287.16	1687597.93	14339542.34	39°29'15.6374"N	80°49'57.9849"W	6078.87	167.775	2.53	0.20	-2.52	
12782.00	89.110	161.360	6688.72	6125.27	-6025.09	1316.35	1687627.11	14339458.31	39°29'14.8061"N	80°49'57.6145"W	6167.21	167.676	1.16	0.15	-1.15	
12870.00	88.770	160.660	6690.35	6213.26	-6108.29	1344.98	1687655.73	14339375.15	39°29'13.9833"N	80°49'57.2513"W	6254.61	167.582	0.88	-0.39	-0.80	
12958.00	88.950	161.800	6692.10	6301.24	-6191.59	1373.29	1687684.03	14339291.88	39°29'13.1595"N	80°49'56.8922"W	6342.06	167.494	1.31	0.20	1.30	
13047.00	88.620	161.010	6693.99	6390.21	-6275.92	1401.66	1687712.39	14339207.58	39°29'12.3254"N	80°49'56.5324"W	6430.54	167.410	0.96	-0.37	-0.89	
13135.00	88.520	160.760	6696.18	6478.19	-6359.05	1430.47	1687741.19	14339124.49	39°29'11.5034"N	80°49'56.1669"W	6517.95	167.322	0.31	-0.11	-0.28	
13224.00	88.590	160.760	6698.43	6567.16	-6443.05	1459.79	1687770.50	14339040.52	39°29'10.6726"N	80°49'55.7950"W	6606.35	167.234	0.08	0.08	0.00	
13312.00	90.370	161.800	6699.22	6655.15	-6526.38	1488.03	1687798.73	14338957.22	39°29'9.8485"N	80°49'55.4368"W	6693.87	167.156	2.34	2.02	1.18	
13401.00	89.750	161.080	6699.13	6744.14	-6610.75	1516.36	1687827.04	14338872.88	39°29'9.0141"N	80°49'55.0775"W	6782.43	167.081	1.07	-0.70	-0.81	
13489.00	89.780	160.990	6699.49	6832.14	-6693.98	1544.95	1687855.63	14338789.69	39°29'8.1910"N	80°49'54.7147"W	6869.95	167.004	0.11	0.03	-0.10	
13578.00	89.570	160.580	6700.00	6921.14	-6778.02	1574.25	1687884.91	14338705.68	39°29'7.3599"N	80°49'54.3431"W	6958.43	166.924	0.52	-0.24	-0.46	
13666.00	88.650	161.170	6701.36	7009.13	-6861.15	1603.07	1687913.72	14338622.59	39°29'6.5377"N	80°49'53.9774"W	7045.94	166.849	1.24	-1.05	0.67	
13755.00	88.920	161.180	6703.25	7098.11	-6945.37	1631.79	1687942.42	14338538.40	39°29'5.7048"N	80°49'53.6132"W	7134.48	166.778	0.30	0.30	0.01	
13843.00	90.220	162.090	6703.91	7186.10	-7028.88	1659.51	1687970.14	14338454.92	39°29'4.8789"N	80°49'53.2616"W	7222.13	166.716	1.80	1.48	1.03	
13932.00	90.060	160.150	6703.69	7275.09	-7113.09	1688.31	1687998.92	14338370.75	39°29'4.0461"N	80°49'52.8964"W	7310.71	166.648	2.19	-0.18	-2.18	
14020.00	90.310	159.180	6703.41	7363.07	-7195.60	1718.89	1688029.49	14338288.26	39°29'3.2301"N	80°49'52.5083"W	7398.06	166.565	1.14	0.28	-1.10	
14109.00	89.880	158.880	6703.26	7452.01	-7278.71	1750.74	1688061.33	14338205.19	39°29'2.4081"N	80°49'52.1041"W	7486.30	166.476	0.59	-0.48	-0.34	
14197.00	89.820	157.910	6703.49	7539.92	-7360.52	1783.14	1688093.72	14338123.41	39°29'1.5989"N	80°49'51.6928"W	7573.43	166.382	1.10	-0.07	-1.10	
14285.00	90.220	159.460	6703.46	7627.85	-7442.50	1815.13	1688125.69	14338041.46	39°29'0.7881"N	80°49'51.2868"W	7660.65	166.294	1.82	0.45	1.76	
14374.00	90.060	159.040	6703.24	7716.81	-7525.73	1846.66	1688157.21	14337958.27	39°28'59.9649"N	80°49'50.8867"W	7748.98	166.213	0.50	-0.18	-0.47	
14462.00	89.020	158.790	6703.95	7804.75	-7607.83	1878.32	1688188.86	14337876.20	39°28'59.1529"N	80°49'50.4849"W	7836.27	166.131	1.22	-1.18	-0.28	
14551.00	89.230	158.840	6705.31	7893.67	-7690.81	1910.47	1688221.00	14337793.26	39°28'58.3322"N	80°49'50.0767"W	7924.55	166.050	0.24	0.24	0.06	
14639.00	89.110	158.710	6706.58	7981.60	-7772.83	1942.33	1688252.85	14337711.27	39°28'57.5210"N	80°49'49.6724"W	8011.84	165.970	0.20	-0.14	-0.15	
14728.00	89.290	159.190	6707.83	8070.53	-7855.88	1974.29	1688284.80	14337628.25	39°28'56.6995"N	80°49'49.2668"W	8100.17	165.893	0.58	0.20	0.54	
14816.00	89.510	159.970	6708.75	8158.50	-7938.35	2004.99	1688315.49	14337545.82	39°28'55.8839"N	80°49'48.8772"W	8187.64	165.825	0.92	0.25	0.89	
14904.00	89.540	159.620	6709.48	8246.48	-8020.93	2035.39	1688345.87	14337463.27	39°28'55.0672"N	80°49'48.4916"W	8275.15	165.761	0.40	0.03	-0.40	
14993.00	90.430	158.760	6709.50	8335.43	-8104.12	2067.01	1688377.47	14337380.11	39°28'54.2444"N	80°49'48.0903"W	8363.57	165.691	1.39	1.00	-0.97	
15081.00	90.120	159.070	6709.08	8423.37	-8186.23	2098.66	1688409.12	14337298.03	39°28'53.4323"N	80°49'47.6886"W	8450.96	165.621	0.50	-0.35	0.35	
15170.00	90.310	159.020	6708.75	8512.32	-8269.34	2130.49	1688440.93	14337214.95	39°28'52.6102"N	80°49'47.2846"W	8539.38	165.553	0.22	0.21	-0.06	
15258.00	90.370	159.030	6708.22	8600.27	-8351.51	2161.99	1688472.42	14337132.82	39°28'51.7976"N	80°49'46.8849"W	8626.81	165.486	0.07	0.07	0.01	

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Vulcan Unit 1H
Field	Tyler		API	47-095-02701-0000
Facility	Pyles Pad		Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01			

WELLPATH DATA (251 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
15347.00	89.600	158.570	6708.25	8689.20	-8434.49	2194.18	1688504.59	14337049.88	39°28'50.9769"N	80°49'46.4764"W	8715.21	165.418	1.01	-0.87	-0.52	
15435.00	89.630	159.510	6708.84	8777.15	-8516.66	2225.65	1688536.06	14336967.74	39°28'50.1641"N	80°49'46.0770"W	8802.67	165.354	1.07	0.03	1.07	
15524.00	89.940	160.510	6709.17	8866.13	-8600.30	2256.08	1688566.47	14336884.13	39°28'49.3370"N	80°49'45.6910"W	8891.29	165.301	1.18	0.35	1.12	
15612.00	90.030	160.940	6709.19	8954.13	-8683.36	2285.13	1688595.51	14336801.10	39°28'48.5154"N	80°49'45.3225"W	8979.01	165.256	0.50	0.10	0.49	
15700.00	90.000	161.050	6709.17	9042.13	-8766.57	2313.79	1688624.15	14336717.93	39°28'47.6926"N	80°49'44.9591"W	9066.77	165.215	0.13	-0.03	0.12	
15789.00	89.600	160.750	6709.48	9131.13	-8850.67	2342.91	1688653.26	14336633.86	39°28'46.8608"N	80°49'44.5897"W	9155.52	165.173	0.56	-0.45	-0.34	
15877.00	89.690	160.780	6710.03	9219.13	-8933.75	2371.90	1688682.24	14336550.81	39°28'46.0391"N	80°49'44.2220"W	9243.26	165.131	0.11	0.10	0.03	
15966.00	89.850	160.860	6710.39	9308.13	-9017.81	2401.14	1688711.47	14336466.79	39°28'45.2078"N	80°49'43.8512"W	9332.01	165.090	0.20	0.18	0.09	
16054.00	89.780	160.340	6710.67	9396.12	-9100.81	2430.37	1688740.69	14336383.82	39°28'44.3869"N	80°49'43.4804"W	9419.74	165.048	0.60	-0.08	-0.59	
16143.00	89.850	160.610	6710.96	9485.12	-9184.70	2460.11	1688770.42	14336299.97	39°28'43.5573"N	80°49'43.1031"W	9508.46	165.005	0.31	0.08	0.30	
16231.00	90.060	160.530	6711.03	9573.12	-9267.68	2489.39	1688799.68	14336217.01	39°28'42.7365"N	80°49'42.7318"W	9596.20	164.965	0.26	0.24	-0.09	
16320.00	90.060	160.810	6710.93	9662.11	-9351.67	2518.85	1688829.13	14336133.06	39°28'41.9060"N	80°49'42.3581"W	9684.95	164.925	0.31	0.00	0.31	
16408.00	89.820	161.060	6711.02	9750.11	-9434.84	2547.59	1688857.86	14336049.92	39°28'41.0834"N	80°49'41.9936"W	9772.74	164.889	0.39	-0.27	0.28	
16496.00	89.820	160.800	6711.30	9838.11	-9518.01	2576.34	1688886.60	14335966.79	39°28'40.2608"N	80°49'41.6289"W	9860.53	164.854	0.30	0.00	-0.30	
16585.00	89.910	161.230	6711.51	9927.11	-9602.17	2605.30	1688915.55	14335882.66	39°28'39.4285"N	80°49'41.2618"W	9949.33	164.820	0.49	0.10	0.48	
16673.00	90.060	161.040	6711.53	10015.11	-9685.44	2633.75	1688943.99	14335799.42	39°28'38.6050"N	80°49'40.9009"W	10037.15	164.787	0.28	0.17	-0.22	
16762.00	89.820	160.910	6711.63	10104.11	-9769.58	2662.76	1688972.99	14335715.32	39°28'37.7729"N	80°49'40.5330"W	10125.96	164.754	0.31	-0.27	-0.15	
16850.00	90.090	160.930	6711.70	10192.11	-9852.74	2691.53	1689001.74	14335632.19	39°28'36.9504"N	80°49'40.1682"W	10213.76	164.721	0.31	0.31	0.02	
16939.00	90.460	161.140	6711.27	10281.11	-9936.91	2720.45	1689030.66	14335548.05	39°28'36.1179"N	80°49'39.8014"W	10302.58	164.689	0.48	0.42	0.24	
17027.00	90.220	160.520	6710.75	10369.11	-10020.03	2749.35	1689059.54	14335464.97	39°28'35.2959"N	80°49'39.4349"W	10390.38	164.657	0.76	-0.27	-0.70	
17116.00	90.280	160.570	6710.36	10458.11	-10103.95	2778.99	1689089.17	14335381.08	39°28'34.4660"N	80°49'39.0589"W	10479.15	164.622	0.09	0.07	0.06	
17204.00	90.280	160.560	6709.93	10546.10	-10186.93	2808.27	1689118.44	14335298.13	39°28'33.6452"N	80°49'38.6876"W	10566.93	164.588	0.01	0.00	-0.01	
17293.00	90.150	161.250	6709.59	10635.10	-10271.03	2837.39	1689147.54	14335214.06	39°28'32.8135"N	80°49'38.3183"W	10655.75	164.557	0.79	-0.15	0.78	
17381.00	90.180	160.490	6709.34	10723.10	-10354.17	2866.22	1689176.37	14335130.96	39°28'31.9912"N	80°49'37.9526"W	10743.56	164.527	0.86	0.03	-0.86	
17470.00	90.310	161.590	6708.96	10812.10	-10438.34	2895.14	1689205.27	14335046.82	39°28'31.1588"N	80°49'37.5859"W	10832.40	164.498	1.24	0.15	1.24	
17558.00	90.150	160.210	6708.61	10900.09	-10521.50	2923.93	1689234.06	14334963.70	39°28'30.3364"N	80°49'37.2208"W	10920.22	164.469	1.58	-0.18	-1.57	
17647.00	90.490	160.540	6708.11	10989.09	-10605.32	2953.83	1689263.94	14334879.91	39°28'29.5074"N	80°49'36.8417"W	11009.00	164.436	0.53	0.38	0.37	
17735.00	90.490	161.270	6707.36	11077.08	-10688.48	2982.61	1689292.71	14334796.78	39°28'28.6850"N	80°49'36.4766"W	11096.83	164.408	0.83	0.00	0.83	
17824.00	90.220	160.630	6706.81	11166.08	-10772.60	3011.66	1689321.75	14334712.69	39°28'27.8530"N	80°49'36.1082"W	11185.66	164.381	0.78	-0.30	-0.72	
17912.00	90.370	160.960	6706.35	11254.08	-10855.70	3040.61	1689350.68	14334629.63	39°28'27.0311"N	80°49'35.7411"W	11273.49	164.353	0.41	0.17	0.38	

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Vulcan Unit 1H
Field	Tyler		API	47-095-02701-0000
Facility	Pyles Pad		Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01			

WELLPATH DATA (251 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
18001.00	90.370	161.430	6705.78	11343.08	-10939.95	3069.30	1689379.36	14334545.41	39°28'26.1979"N	80°49'35.3774"W	11362.36	164.328	0.53	0.00	0.53	
18089.00	90.220	160.860	6705.33	11431.07	-11023.23	3097.73	1689407.79	14334462.17	39°28'25.3743"N	80°49'35.0168"W	11450.22	164.304	0.67	-0.17	-0.65	
18178.00	90.280	160.760	6704.94	11520.07	-11107.28	3126.99	1689437.03	14334378.15	39°28'24.5430"N	80°49'34.6458"W	11539.05	164.277	0.13	0.07	-0.11	
18266.00	90.460	161.210	6704.37	11608.07	-11190.48	3155.66	1689465.69	14334294.99	39°28'23.7202"N	80°49'34.2822"W	11626.91	164.252	0.55	0.20	0.51	
18355.00	89.970	160.600	6704.03	11697.07	-11274.58	3184.77	1689494.79	14334210.92	39°28'22.8885"N	80°49'33.9130"W	11715.76	164.226	0.88	-0.55	-0.69	
18443.00	90.250	160.690	6703.87	11785.07	-11357.61	3213.94	1689523.95	14334127.93	39°28'22.0673"N	80°49'33.5432"W	11803.58	164.200	0.33	0.32	0.10	
18531.00	90.060	160.660	6703.63	11873.07	-11440.65	3243.06	1689553.06	14334044.92	39°28'21.2460"N	80°49'33.1739"W	11891.42	164.174	0.22	-0.22	-0.03	
18620.00	90.400	161.100	6703.27	11962.07	-11524.74	3272.21	1689582.20	14333960.86	39°28'20.4144"N	80°49'32.8042"W	11980.27	164.149	0.62	0.38	0.49	
18708.00	90.250	161.030	6702.77	12050.06	-11607.97	3300.77	1689610.74	14333877.66	39°28'19.5912"N	80°49'32.4421"W	12068.14	164.127	0.19	-0.17	-0.08	
18797.00	90.370	161.010	6702.29	12139.06	-11692.13	3329.71	1689639.67	14333793.53	39°28'18.7588"N	80°49'32.0751"W	12157.01	164.104	0.14	0.13	-0.02	
18885.00	90.370	161.040	6701.72	12227.06	-11775.35	3358.33	1689668.28	14333710.35	39°28'17.9358"N	80°49'31.7123"W	12244.89	164.082	0.03	0.00	0.03	
18974.00	90.250	160.990	6701.24	12316.06	-11859.51	3387.28	1689697.22	14333626.22	39°28'17.1035"N	80°49'31.3452"W	12333.76	164.060	0.15	-0.13	-0.06	
19062.00	90.180	160.570	6700.91	12404.06	-11942.60	3416.25	1689726.17	14333543.16	39°28'16.2817"N	80°49'30.9778"W	12421.61	164.037	0.48	-0.08	-0.48	
19151.00	90.520	161.130	6700.37	12493.06	-12026.67	3445.44	1689755.36	14333459.12	39°28'15.4502"N	80°49'30.6076"W	12510.47	164.014	0.74	0.38	0.63	
19239.00	90.250	161.190	6699.77	12581.05	-12109.96	3473.86	1689783.76	14333375.87	39°28'14.6266"N	80°49'30.2473"W	12598.36	163.994	0.31	-0.31	0.07	
19328.00	90.120	161.250	6699.49	12670.05	-12194.22	3502.51	1689812.40	14333291.65	39°28'13.7932"N	80°49'29.8841"W	12687.26	163.974	0.16	-0.15	0.07	
19417.00	90.250	161.120	6699.20	12759.05	-12278.46	3531.22	1689841.10	14333207.44	39°28'12.9601"N	80°49'29.5202"W	12776.15	163.955	0.21	0.15	-0.15	
19505.00	89.630	160.460	6699.29	12847.05	-12361.56	3560.17	1689870.04	14333124.37	39°28'12.1382"N	80°49'29.1530"W	12864.02	163.933	1.03	-0.70	-0.75	
19594.00	89.820	160.610	6699.72	12936.05	-12445.47	3589.83	1689899.68	14333040.49	39°28'11.3083"N	80°49'28.7769"W	12952.86	163.910	0.27	0.21	0.17	
19682.00	89.970	160.940	6699.88	13024.04	-12528.57	3618.80	1689928.65	14332957.43	39°28'10.4865"N	80°49'28.4095"W	13040.73	163.889	0.41	0.17	0.38	
19771.00	89.450	161.270	6700.33	13113.04	-12612.77	3647.62	1689957.46	14332873.26	39°28'9.6537"N	80°49'28.0441"W	13129.63	163.870	0.69	-0.58	0.37	
19859.00	89.380	160.790	6701.23	13201.04	-12695.99	3676.23	1689986.05	14332790.08	39°28'8.8307"N	80°49'27.6814"W	13217.51	163.851	0.55	-0.08	-0.55	
19948.00	89.540	160.680	6702.07	13290.03	-12780.00	3705.59	1690015.40	14332706.10	39°28'7.9998"N	80°49'27.3091"W	13306.38	163.830	0.22	0.18	-0.12	
20036.00	89.820	162.150	6702.56	13378.03	-12863.40	3733.64	1690043.44	14332622.73	39°28'7.1750"N	80°49'26.9536"W	13394.30	163.814	1.70	0.32	1.67	
20125.00	89.570	160.560	6703.03	13467.02	-12947.73	3762.09	1690071.88	14332538.44	39°28'6.3410"N	80°49'26.5929"W	13483.21	163.798	1.81	-0.28	-1.79	
20213.00	89.660	161.610	6703.62	13555.02	-13030.97	3790.62	1690100.39	14332455.22	39°28'5.5177"N	80°49'26.2312"W	13571.11	163.781	1.20	0.10	1.19	
20302.00	89.940	161.540	6703.94	13644.01	-13115.41	3818.74	1690128.51	14332370.82	39°28'4.6826"N	80°49'25.8746"W	13660.05	163.766	0.32	0.31	-0.08	
20390.00	89.690	161.400	6704.22	13732.01	-13198.85	3846.71	1690156.47	14332287.42	39°28'3.8574"N	80°49'25.5201"W	13747.97	163.752	0.33	-0.28	-0.16	
20479.00	89.480	161.910	6704.86	13821.00	-13283.32	3874.72	1690184.47	14332202.98	39°28'3.0220"N	80°49'25.1651"W	13836.91	163.738	0.62	-0.24	0.57	
20567.00	89.420	160.330	6705.71	13908.99	-13366.58	3903.20	1690212.93	14332119.75	39°28'2.1986"N	80°49'24.8041"W	13924.81	163.722	1.80	-0.07	-1.80	

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (251 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]	
20655.00	89.820	161.560	6706.29	13996.99	-13449.76	3931.92	1690241.64	14332036.61	39°28'1.3760"N	80°49'24.4399"W	14012.71	163.704	1.47	0.45	1.40	
20744.00	89.320	161.920	6706.96	14085.98	-13534.27	3959.81	1690269.52	14331952.13	39°28'0.5401"N	80°49'24.0864"W	14101.65	163.692	0.69	-0.56	0.40	
20832.00	89.910	160.860	6707.55	14173.97	-13617.67	3987.89	1690297.59	14331868.77	39°27'59.7154"N	80°49'23.7304"W	14189.58	163.677	1.38	0.67	-1.20	
20921.00	89.720	160.900	6707.84	14262.97	-13701.76	4017.04	1690326.73	14331784.71	39°27'58.8837"N	80°49'23.3608"W	14278.47	163.660	0.22	-0.21	0.04	
21009.00	89.850	161.430	6708.17	14350.97	-13785.04	4045.45	1690355.13	14331701.46	39°27'58.0600"N	80°49'23.0007"W	14366.39	163.645	0.62	0.15	0.60	
21098.00	89.570	161.810	6708.62	14439.96	-13869.50	4073.52	1690383.18	14331617.03	39°27'57.2247"N	80°49'22.6450"W	14455.33	163.632	0.53	-0.31	0.43	
21186.00	89.630	160.180	6709.23	14527.96	-13952.70	4102.17	1690411.82	14331533.87	39°27'56.4019"N	80°49'22.2817"W	14543.24	163.616	1.85	0.07	-1.85	
21275.00	89.850	161.250	6709.64	14616.96	-14036.71	4131.56	1690441.21	14331449.90	39°27'55.5711"N	80°49'21.9090"W	14632.12	163.599	1.23	0.25	1.20	
21363.00	89.750	160.640	6709.95	14704.95	-14119.88	4160.29	1690469.92	14331366.75	39°27'54.7484"N	80°49'21.5448"W	14720.02	163.583	0.70	-0.11	-0.69	
21374.00	89.480	160.800	6710.02	14715.95	-14130.27	4163.93	1690473.55	14331356.37	39°27'54.6457"N	80°49'21.4988"W	14731.01	163.581	2.85	-2.45	1.45	
21399.00‡	89.480	160.800	6710.25	14740.95	-14153.87	4172.15	1690481.77	14331332.77	39°27'54.4122"N	80°49'21.3945"W	14755.98	163.576	0.00	0.00	0.00	Projected MD at TD: 21399'

HOLE & CASING SECTIONS - Ref Wellbore: Vulcan Unit 1H AWB Ref Wellpath: Vulcan Unit 1H AWP Proj: 21399'									
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	25.50	105.50	80.00	25.50	105.50	0.00	0.00	-0.11	-0.07
17.5in Open Hole	105.50	390.00	284.50	105.50	390.00	-0.11	-0.07	-1.18	-1.18
13.375in Casing Surface	25.50	370.00	344.50	25.50	370.00	0.00	0.00	-1.06	-1.07
12.25in Open Hole	390.00	2632.00	2242.00	390.00	2629.76	-1.18	-1.18	14.58	-50.31
9.625in Casing Intermediate	25.50	2612.00	2586.50	25.50	2609.76	0.00	0.00	14.19	-50.25
8.75in Open Hole	2632.00	6348.00	3716.00	2629.76	6288.40	14.58	-50.31	-16.12	-520.98
8.5in Open Hole	6348.00	21399.00	15051.00	6288.40	6710.25	-16.12	-520.98	-14153.87	4172.15
5.5in Casing Production	25.50	21399.00	21373.50	25.50	6710.25	0.00	0.00	-14153.87	4172.15

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Vulcan Unit 1H POE Rev-2	6614.00	-447.02	-493.26	1685818.23	14345034.15	39°30'9.9687"N	80°50'20.5679"W	point
Vulcan Unit 1H AZI Rev-1	6640.00	-1001.91	-380.70	1685930.74	14344479.49	39°30'4.4826"N	80°50'19.1447"W	point
Vulcan Unit 1H BHL Rev-2	6640.00	-14146.36	4148.51	1690458.14	14331340.29	39°27'54.4870"N	80°49'21.6958"W	point
Vulcan Unit 1H LP Rev-2	6640.00	-636.51	-467.55	1685843.93	14344844.74	39°30'8.0955"N	80°50'20.2442"W	point
Vulcan Unit 1H 50' L/R Hard Line	7000.00	-7574.13	1883.90	1688194.44	14337909.89	39°28'59.4859"N	80°49'50.4128"W	rectangle
2D Rectangle 13902.9 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Vulcan Unit 1H AWB Ref Wellpath: Vulcan Unit 1H AWP Proj: 21399'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	380.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2">(100'-380')	Vulcan Unit 1H AWB	03/Aug/2020
380.00	2554.00	BH NaviTrak (2019) (Axial)	02_APS EM <12-1/4">(380')(417'-2554')	Vulcan Unit 1H AWB	03/Aug/2020
2554.00	6280.00	BH NaviTrak (2019) (Axial)	03_APS EM <8-3/4">(2554')(2647'-6280')	Vulcan Unit 1H AWB	03/Aug/2020
6280.00	21399.00	BH AutoTrak Curve (2019) (Short spacing)	04_BH AT Curve <8-1/2">(6280')(6324'-21374')	Vulcan Unit 1H AWB	03/Aug/2020

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Actual Wellpath Report

Vulcan Unit 1H AWP Proj: 21399'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Vulcan Unit 1H
Field	Tyler	API	47-095-02701-0000
Facility	Pyles Pad	Wellbore	Vulcan Unit 1H AWB
Slot	Slot #01		

COMMENTS

Wellpath general comments

API: 47-095-02701-0000

BH Job #: 110507552-B

Rig: H&P 317

Duration: 10/20/2020-10/26/2020

Gyrodata MS Gyro <17-1/2"> (100'-380')

APS EM <12-1/4"> (380')(417'-2554')

APS EM <8-3/4"> (2554')(2647'-6280')

BH AT Curve <8-1/2"> (6280')(6324'-21374')

Sycamore: 6385' MD

Middlesex: 6536' MD

Burkett: 6692' MD

Tully: 6743' MD

Marcellus POE: 6901' MD

Projected MD at TD: 21399'

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