



ANTERO RESOURCES CORPORATION



Location: Wetzel County, WV
 Field: Wetzel
 Facility: Dogwood Pad

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

Easting (ft)

Plot reference wellpath is Daags Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1338 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot #05): -1308 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsanyar on 2021-12-30; Database: WA_MPL_EASTERNUS_Defn

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Dogwood Pad	1718075.750	14353709.890	39°31'34.9750"N	80°43'28.5500"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot #05	-29.95	-0.69	1718075.060	14353679.950	39°31'34.6790"N
Comment	Daags Unit 1H				
H&P 519 (RKB) to Ground level (At Slot: Slot #05)	30ft				
Mean Sea Level to Ground level (At Slot: Slot #05)	-1308ft				
H&P 519 (RKB) to Mean Sea Level	1338ft				

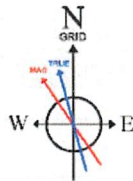
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2550.00	0.450	112.760	2549.90	-10.33	14.41	0.33	14.45
Proj. to Bottom	2623.00	0.450	112.760	2622.90	-10.55	14.94	0.00	14.83
KOP 1	2703.00	0.450	112.760	2702.90	-10.79	15.52	0.00	15.25
End of 3D Arc	3246.35	10.642	353.835	3243.18	38.41	12.09	2.00	-32.39
Curve KOP	6382.30	10.642	353.835	6325.20	614.20	-50.10	0.00	-597.13
POE	7443.58	74.514	161.030	7144.00	137.41	142.15	8.00	-83.74
Landing Pt.	7637.15	90.000	161.030	7170.00	-43.42	204.31	8.00	107.48
BHL	18883.04	60.000	161.030	7170.00	-10678.51	3860.13	0.00	11353.37

Gyrodatta MS Gyro <17-1/2"> (100'-570') : 0.20° Inc, 100.00ft MD, 100.00ft TVD, -0.12ft VS
 APS EM <12-1/4"> (570')(699'-2550') : 0.30° Inc, 699.00ft MD, 698.98ft TVD, 0.07ft VS

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #05	Daags Unit 1H	Daags Unit 1H AWB	Daags Unit 1H AWP Proj: 18879'
Slot #05	Daags Unit 1H	Daags Unit 1H PWB	Daags Unit 1H PWP Rev-B.0

APS EM <8-3/4"> (2550')(2663'-6356') : 0.68° Inc, 2663.00ft MD, 2662.90ft TVD, 15.09ft VS

API: 47-103-03425-0000
 BH Job #: 111092444
 Rig: H&P 519
 Duration: 12/17/2021-12/22/2021



User specified (HDGM) Dip: 66.51° Field: 51886 nT
 Magnetic North is 7.82 degrees West of True North (at 16/Dec/2021)
 Grid North is 0.18 degrees East of True North
 To correct azimuth from True to Grid subtract 0.18 degrees
 To correct azimuth from Magnetic to Grid subtract 8.00 degrees

BH AT Curve <8-1/2"> (6356')(6395'-18854') : 7.54° Inc, 6395.00ft MD, 6339.95ft TVD, -593.27ft VS

Marcellus POE: 7472' MD : 78.39° Inc, 7472.00ft MD, 7142.78ft TVD, -81.78ft VS

Projected MD at TD: 18879' : 89.54° Inc, 18879.00ft MD, 7228.78ft TVD, 11321.78ft VS

Projected MD at TD: 18879' : 7228.78ft TVD, 10652.71ft S, 3837.99ft E BHL : 80°

Scale 1 inch = 200'

True Vertical Depth (ft)

Vertical Section (ft)
 Azimuth 161.03° with reference 0.00 N, 0.00 E

Scale 1 inch = 2000'

Northing (ft)

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Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999607	Report Generated	30/Dec/2021 at 19:22
Convergence at slot	0.18° 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	-29.95	-0.69	1718075.06	14353679.95	39°31'34.6790"N	80°43'28.5600"W
Facility Reference Pt			1718075.75	14353709.89	39°31'34.9750"N	80°43'28.5500"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 519 (RKB) to Facility Vertical Datum	1338.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1338.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #05)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.03°



Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (208 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	327.980	0.00	0.00	0.00	0.00	1718075.06	14353679.95	39°31'34.6790"N	80°43'28.5600"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	327.980	30.00	0.00	0.00	0.00	1718075.06	14353679.95	39°31'34.6790"N	80°43'28.5600"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.200	327.980	100.00	-0.12	0.10	-0.06	1718075.00	14353680.05	39°31'34.6801"N	80°43'28.5608"W	0.12	327.980	0.29	0.29	0.00	Gyrodata MS Gyro <17-1/2"> (100'-570')
200.00	0.440	17.430	200.00	-0.60	0.62	-0.04	1718075.02	14353680.57	39°31'34.6852"N	80°43'28.5605"W	0.62	356.083	0.35	0.24	49.45	
300.00	0.710	68.190	299.99	-0.94	1.21	0.65	1718075.71	14353681.16	39°31'34.6910"N	80°43'28.5517"W	1.38	28.081	0.55	0.27	50.76	
400.00	0.330	91.790	399.99	-0.87	1.44	1.51	1718076.57	14353681.39	39°31'34.6932"N	80°43'28.5407"W	2.08	46.465	0.43	-0.38	23.60	
500.00	0.330	88.870	499.99	-0.68	1.43	2.09	1718077.15	14353681.38	39°31'34.6931"N	80°43'28.5333"W	2.53	55.535	0.02	0.00	-2.92	
570.00	0.450	97.810	569.99	-0.49	1.40	2.56	1718077.62	14353681.35	39°31'34.6928"N	80°43'28.5273"W	2.92	61.351	0.19	0.17	12.77	
699.00	0.300	152.780	698.98	0.07	1.03	3.22	1718078.28	14353680.98	39°31'34.6891"N	80°43'28.5189"W	3.38	72.250	0.29	-0.12	42.61	APS EM <12-1/4"> (570')(699'-2550')
790.00	0.270	161.970	789.98	0.52	0.61	3.39	1718078.45	14353680.56	39°31'34.6850"N	80°43'28.5167"W	3.45	79.740	0.06	-0.03	10.10	
879.00	0.310	132.600	878.98	0.94	0.25	3.63	1718078.69	14353680.20	39°31'34.6814"N	80°43'28.5136"W	3.64	86.039	0.17	0.04	-33.00	
969.00	0.500	143.220	968.98	1.53	-0.23	4.05	1718079.11	14353679.72	39°31'34.6767"N	80°43'28.5084"W	4.06	93.218	0.23	0.21	11.80	
1059.00	0.410	179.370	1058.98	2.21	-0.86	4.29	1718079.35	14353679.09	39°31'34.6704"N	80°43'28.5053"W	4.37	101.396	0.33	-0.10	40.17	
1153.00	0.400	173.730	1152.97	2.85	-1.53	4.33	1718079.39	14353678.42	39°31'34.6638"N	80°43'28.5049"W	4.59	109.434	0.04	-0.01	-6.00	
1248.00	0.630	149.740	1247.97	3.69	-2.31	4.63	1718079.68	14353677.64	39°31'34.6561"N	80°43'28.5011"W	5.17	116.507	0.33	0.24	-25.25	
1341.00	0.470	131.530	1340.97	4.52	-3.00	5.17	1718080.23	14353676.95	39°31'34.6492"N	80°43'28.4942"W	5.98	120.143	0.25	-0.17	-19.58	
1436.00	0.530	132.780	1435.96	5.25	-3.56	5.78	1718080.84	14353676.39	39°31'34.6437"N	80°43'28.4864"W	6.79	121.603	0.06	0.06	1.32	
1531.00	0.570	144.830	1530.96	6.09	-4.24	6.38	1718081.44	14353675.71	39°31'34.6369"N	80°43'28.4788"W	7.66	123.634	0.13	0.04	12.68	
1625.00	0.710	152.670	1624.95	7.11	-5.14	6.92	1718081.97	14353674.81	39°31'34.6280"N	80°43'28.4720"W	8.62	126.639	0.18	0.15	8.34	
1720.00	0.560	146.170	1719.95	8.14	-6.05	7.44	1718082.50	14353673.90	39°31'34.6190"N	80°43'28.4653"W	9.59	129.109	0.17	-0.16	-6.84	
1815.00	0.650	140.330	1814.94	9.10	-6.85	8.05	1718083.10	14353673.10	39°31'34.6111"N	80°43'28.4576"W	10.57	130.416	0.11	0.09	-6.15	
1909.00	0.600	130.150	1908.94	10.02	-7.58	8.76	1718083.82	14353672.37	39°31'34.6039"N	80°43'28.4485"W	11.59	130.859	0.13	-0.05	-10.83	
2004.00	0.630	119.170	2003.93	10.83	-8.15	9.60	1718084.66	14353671.80	39°31'34.5982"N	80°43'28.4378"W	12.60	130.350	0.13	0.03	-11.56	
2099.00	0.660	130.330	2098.92	11.69	-8.76	10.47	1718085.53	14353671.19	39°31'34.5921"N	80°43'28.4267"W	13.66	129.924	0.14	0.03	11.75	
2193.00	0.600	115.500	2192.92	12.50	-9.33	11.33	1718086.38	14353670.63	39°31'34.5865"N	80°43'28.4158"W	14.67	129.460	0.18	-0.06	-15.78	
2288.00	0.530	133.910	2287.91	13.24	-9.84	12.09	1718087.15	14353670.11	39°31'34.5814"N	80°43'28.4061"W	15.59	129.145	0.20	-0.07	19.38	
2383.00	0.580	96.970	2382.91	13.84	-10.21	12.89	1718087.94	14353669.75	39°31'34.5778"N	80°43'28.3959"W	16.44	128.380	0.37	0.05	-38.88	
2477.00	0.540	86.520	2476.91	14.17	-10.24	13.80	1718088.86	14353669.72	39°31'34.5774"N	80°43'28.3843"W	17.19	126.567	0.12	-0.04	-11.12	
2550.00	0.450	112.760	2549.90	14.45	-10.33	14.41	1718089.46	14353669.63	39°31'34.5765"N	80°43'28.3765"W	17.73	125.631	0.33	-0.12	35.95	
2663.00	0.680	102.230	2662.90	15.09	-10.64	15.48	1718090.53	14353669.31	39°31'34.5734"N	80°43'28.3630"W	18.78	124.517	0.22	0.20	-9.32	APS EM <8-3/4"> (2550')(2663'-6356')

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Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (208 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
2757.00	4.430	8.790	2756.80	12.17	-7.17	16.58	1718091.63	14353672.78	39°31'34.6077"N	80°43'28.3488"W	18.06	113.395	4.81	3.99	-99.40	
2852.00	7.720	350.510	2851.26	2.63	2.75	16.08	1718091.14	14353682.70	39°31'34.7058"N	80°43'28.3547"W	16.32	80.291	3.98	3.46	-19.24	
2947.00	9.340	339.520	2945.22	-11.38	16.27	12.33	1718087.39	14353696.21	39°31'34.8395"N	80°43'28.4020"W	20.42	37.168	2.41	1.71	-11.57	
3041.00	10.280	344.070	3037.84	-27.38	31.48	7.36	1718082.42	14353711.42	39°31'34.9899"N	80°43'28.4648"W	32.33	13.165	1.30	1.00	4.84	
3136.00	11.070	359.850	3131.22	-44.48	48.76	5.01	1718080.07	14353728.69	39°31'35.1608"N	80°43'28.4942"W	49.01	5.870	3.18	0.83	16.61	
3233.00	9.670	5.110	3226.63	-60.73	66.18	5.71	1718080.77	14353746.11	39°31'35.3330"N	80°43'28.4845"W	66.43	4.934	1.74	-1.44	5.42	
3327.00	9.170	2.900	3319.37	-74.89	81.53	6.80	1718081.85	14353761.45	39°31'35.4846"N	80°43'28.4701"W	81.81	4.765	0.66	-0.53	-2.35	
3422.00	9.110	357.830	3413.16	-89.12	96.60	6.89	1718081.95	14353776.52	39°31'35.6336"N	80°43'28.4683"W	96.85	4.082	0.85	-0.06	-5.34	
3517.00	9.160	351.730	3506.96	-103.75	111.60	5.52	1718080.58	14353791.51	39°31'35.7819"N	80°43'28.4852"W	111.74	2.832	1.02	0.05	-6.42	
3611.00	9.100	345.300	3599.77	-118.51	126.20	2.56	1718077.62	14353806.10	39°31'35.9262"N	80°43'28.5224"W	126.22	1.162	1.09	-0.06	-6.84	
3706.00	8.890	350.830	3693.60	-133.24	140.71	-0.52	1718074.54	14353820.61	39°31'36.0697"N	80°43'28.5611"W	140.71	359.789	0.94	-0.22	5.82	
3801.00	9.900	352.860	3787.33	-148.46	156.06	-2.70	1718072.36	14353835.95	39°31'36.2215"N	80°43'28.5884"W	156.08	359.008	1.12	1.06	2.14	
3895.00	11.340	0.710	3879.72	-165.08	173.32	-3.59	1718071.47	14353853.20	39°31'36.3921"N	80°43'28.5991"W	173.36	358.813	2.17	1.53	8.35	
3990.00	12.630	358.300	3972.65	-183.79	193.04	-3.78	1718071.28	14353872.92	39°31'36.5871"N	80°43'28.6008"W	193.08	358.877	1.46	1.36	-2.54	
4085.00	13.260	351.970	4065.24	-204.41	214.21	-5.61	1718069.45	14353894.08	39°31'36.7964"N	80°43'28.6233"W	214.29	358.499	1.63	0.66	-6.66	
4179.00	12.680	355.390	4156.84	-224.99	235.17	-7.95	1718067.11	14353915.03	39°31'37.0036"N	80°43'28.6523"W	235.31	358.064	1.02	-0.62	3.64	
4274.00	11.710	0.340	4249.70	-244.18	255.21	-8.73	1718066.33	14353935.06	39°31'37.2016"N	80°43'28.6615"W	255.36	358.041	1.50	-1.02	5.21	
4369.00	9.810	5.250	4343.03	-260.67	272.91	-7.93	1718067.13	14353952.75	39°31'37.3765"N	80°43'28.6506"W	273.02	358.335	2.22	-2.00	5.17	
4463.00	9.600	1.670	4435.68	-275.30	288.72	-6.97	1718068.09	14353968.55	39°31'37.5327"N	80°43'28.6377"W	288.80	358.617	0.68	-0.22	-3.81	
4558.00	9.280	356.230	4529.40	-290.11	304.28	-7.24	1718067.82	14353984.11	39°31'37.6865"N	80°43'28.6406"W	304.37	358.636	1.00	-0.34	-5.73	
4653.00	9.220	349.640	4623.16	-305.03	319.41	-9.12	1718065.95	14353999.23	39°31'37.8361"N	80°43'28.6639"W	319.54	358.365	1.12	-0.06	-6.94	
4747.00	9.260	343.390	4715.95	-320.03	334.07	-12.63	1718062.43	14354013.88	39°31'37.9811"N	80°43'28.7082"W	334.30	357.834	1.07	0.04	-6.65	
4842.00	9.040	349.210	4809.74	-335.05	348.72	-16.22	1718058.85	14354028.53	39°31'38.1260"N	80°43'28.7533"W	349.10	357.338	1.00	-0.23	6.13	
4937.00	8.630	345.920	4903.61	-349.54	362.97	-19.35	1718055.72	14354042.77	39°31'38.2669"N	80°43'28.7927"W	363.48	356.949	0.68	-0.43	-3.46	
5031.00	8.690	353.200	4996.54	-363.51	376.86	-21.90	1718053.17	14354056.66	39°31'38.4043"N	80°43'28.8248"W	377.50	356.674	1.17	0.06	7.74	
5126.00	9.610	351.330	5090.33	-378.33	391.83	-23.95	1718051.12	14354071.62	39°31'38.5523"N	80°43'28.8503"W	392.56	356.502	1.02	0.97	-1.97	
5221.00	9.250	348.160	5184.05	-393.71	407.14	-26.71	1718048.36	14354086.93	39°31'38.7037"N	80°43'28.8850"W	408.01	356.246	0.67	-0.38	-3.34	
5316.00	9.810	349.040	5277.74	-409.30	422.56	-29.82	1718045.26	14354102.34	39°31'38.8562"N	80°43'28.9240"W	423.61	355.964	0.61	0.59	0.93	
5410.00	9.400	339.580	5370.43	-424.90	437.61	-34.02	1718041.06	14354117.39	39°31'39.0051"N	80°43'28.9771"W	438.93	355.555	1.73	-0.44	-10.06	
5505.00	9.290	339.170	5464.17	-440.32	452.05	-39.45	1718035.63	14354131.82	39°31'39.1480"N	80°43'29.0458"W	453.77	355.012	0.14	-0.12	-0.43	



Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (208 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]	
5599.00	10.700	347.150	5556.74	-456.58	467.65	-44.09	1718030.99	14354147.42	39°31'39.3023"N	80°43'29.1044"W	469.72	354.614	2.10	1.50	8.49	
5694.00	10.740	349.140	5650.08	-474.12	484.94	-47.72	1718027.36	14354164.70	39°31'39.4733"N	80°43'29.1501"W	487.28	354.380	0.39	0.04	2.09	
5789.00	11.150	352.640	5743.36	-491.88	502.75	-50.56	1718024.52	14354182.50	39°31'39.6493"N	80°43'29.1857"W	505.28	354.257	0.82	0.43	3.68	
5883.00	11.250	356.710	5835.57	-509.61	520.91	-52.25	1718022.83	14354200.66	39°31'39.8289"N	80°43'29.2065"W	523.53	354.272	0.85	0.11	4.33	
5978.00	10.540	358.490	5928.86	-526.82	538.85	-53.01	1718022.07	14354218.59	39°31'40.0063"N	80°43'29.2155"W	541.45	354.381	0.83	-0.75	1.87	
6073.00	10.370	354.440	6022.28	-543.42	556.05	-54.07	1718021.01	14354235.78	39°31'40.1762"N	80°43'29.2284"W	558.67	354.446	0.79	-0.18	-4.26	
6167.00	9.750	355.190	6114.83	-559.37	572.40	-55.56	1718019.52	14354252.12	39°31'40.3379"N	80°43'29.2467"W	575.09	354.456	0.67	-0.66	0.80	
6262.00	9.900	359.770	6208.44	-574.91	588.58	-56.27	1718018.82	14354268.30	39°31'40.4979"N	80°43'29.2551"W	591.26	354.539	0.84	0.16	4.82	
6356.00	7.920	4.970	6301.31	-588.48	603.12	-55.74	1718019.34	14354282.83	39°31'40.6415"N	80°43'29.2478"W	605.69	354.720	2.27	-2.11	5.53	
6395.00	7.540	4.950	6339.95	-593.27	608.34	-55.28	1718019.80	14354288.05	39°31'40.6931"N	80°43'29.2418"W	610.85	354.807	0.97	-0.97	-0.05	BH AT Curve <8-1/2"> (6356')(6395'-18854')
6458.00	5.420	17.880	6402.55	-599.43	615.29	-54.01	1718021.07	14354295.00	39°31'40.7618"N	80°43'29.2253"W	617.66	354.983	4.06	-3.37	20.52	
6552.00	5.250	103.220	6496.26	-600.70	618.54	-48.46	1718026.62	14354298.24	39°31'40.7937"N	80°43'29.1543"W	620.43	355.521	7.69	-0.18	90.79	
6647.00	6.220	153.290	6590.84	-593.28	612.94	-41.91	1718033.17	14354292.65	39°31'40.7382"N	80°43'29.0709"W	614.37	356.089	5.19	1.02	52.71	
6742.00	13.380	176.410	6684.43	-577.55	597.35	-38.90	1718036.17	14354277.06	39°31'40.5840"N	80°43'29.0332"W	598.62	356.274	8.46	7.54	24.34	
6836.00	19.700	166.250	6774.51	-551.26	571.07	-34.45	1718040.62	14354250.80	39°31'40.3242"N	80°43'28.9774"W	572.11	356.548	7.37	6.72	-10.81	
6856.00†	20.860	164.449	6793.27	-544.35	564.37	-32.69	1718042.38	14354244.10	39°31'40.2578"N	80°43'28.9552"W	565.32	356.685	6.58	5.80	-9.00	Sycamore: 6856' MD
6931.00	25.340	159.130	6862.25	-514.96	536.49	-23.39	1718051.68	14354216.23	39°31'39.9820"N	80°43'28.8376"W	537.00	357.504	6.58	5.97	-7.09	
7005.00†	34.125	159.465	6926.44	-478.31	502.19	-10.44	1718064.62	14354181.94	39°31'39.6426"N	80°43'28.6737"W	502.30	358.809	11.87	11.87	0.45	Middlesex: 7005' MD
7025.00	36.500	159.530	6942.76	-466.75	491.36	-6.39	1718068.67	14354171.12	39°31'39.5355"N	80°43'28.6224"W	491.40	359.255	11.87	11.87	0.33	
7120.00	48.340	159.030	7012.77	-402.82	431.54	16.27	1718091.32	14354111.32	39°31'38.9436"N	80°43'28.3356"W	431.85	2.159	12.47	12.46	-0.53	
7151.00†	52.066	159.106	7032.61	-379.02	409.30	24.78	1718099.83	14354089.09	39°31'38.7235"N	80°43'28.2279"W	410.05	3.464	12.02	12.02	0.24	Burkett: 7151' MD
7207.00†	58.798	159.224	7064.36	-332.95	366.22	41.17	1718116.21	14354046.03	39°31'38.2973"N	80°43'28.0204"W	368.53	6.413	12.02	12.02	0.21	Tully: 7207' MD
7215.00	59.760	159.240	7068.45	-326.08	359.79	43.60	1718118.65	14354039.60	39°31'38.2337"N	80°43'27.9895"W	362.43	6.910	12.02	12.02	0.19	
7310.00	71.980	159.260	7107.21	-239.59	278.87	74.26	1718149.29	14353958.71	39°31'37.4330"N	80°43'27.6014"W	288.59	14.912	12.86	12.86	0.02	
7404.00	79.940	158.740	7130.00	-148.53	193.81	106.92	1718181.94	14353873.68	39°31'36.5913"N	80°43'27.1879"W	221.35	28.885	8.49	8.47	-0.55	
7472.00†	78.394	159.154	7142.78	-81.78	131.48	130.91	1718205.92	14353811.38	39°31'35.9745"N	80°43'26.8842"W	185.54	44.876	2.35	-2.27	0.61	Marcellus POE: 7472' MD
7499.00	77.780	159.320	7148.35	-55.38	106.78	140.28	1718215.28	14353786.69	39°31'35.7301"N	80°43'26.7657"W	176.30	52.722	2.35	-2.27	0.61	
7593.00	84.330	159.290	7182.96	37.39	19.96	173.08	1718248.07	14353699.90	39°31'34.8711"N	80°43'26.3505"W	174.22	83.421	6.97	6.97	-0.03	
7688.00	90.030	159.150	7167.63	132.18	-68.72	206.73	1718281.71	14353611.26	39°31'33.9937"N	80°43'25.9246"W	217.85	108.387	6.00	6.00	-0.15	
7783.00	89.850	160.450	7167.73	227.16	-157.87	239.53	1718314.50	14353522.14	39°31'33.1115"N	80°43'25.5094"W	286.88	123.388	1.38	-0.19	1.37	

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Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (208 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
7877.00	90.030	159.890	7167.83	321.15	-246.30	271.42	1718346.37	14353433.75	39°31'32.2366"N	80°43'25.1060"W	366.51	132.222	0.63	0.19	-0.60	
7972.00	89.780	160.000	7167.99	416.13	-335.54	304.00	1718378.93	14353344.55	39°31'31.3536"N	80°43'24.6937"W	452.77	137.823	0.29	-0.26	0.12	
8067.00	89.850	160.030	7168.29	511.12	-424.81	336.46	1718411.39	14353255.30	39°31'30.4703"N	80°43'24.2829"W	541.92	141.620	0.08	0.07	0.03	
8162.00	89.630	160.570	7168.73	606.11	-514.25	368.49	1718443.40	14353165.90	39°31'29.5854"N	80°43'23.8777"W	632.64	144.377	0.61	-0.23	0.57	
8257.00	89.630	161.290	7169.34	701.11	-604.04	399.52	1718474.43	14353076.15	39°31'28.6971"N	80°43'23.4852"W	724.21	146.518	0.76	0.00	0.76	
8352.00	90.370	161.340	7169.34	796.10	-694.03	429.96	1718504.85	14352986.20	39°31'27.8067"N	80°43'23.1003"W	816.42	148.221	0.78	0.78	0.05	
8446.00	89.380	160.500	7169.54	890.10	-782.86	460.69	1718535.56	14352897.40	39°31'26.9278"N	80°43'22.7117"W	908.35	149.525	1.38	-1.05	-0.89	
8541.00	89.660	161.050	7170.34	985.10	-872.56	491.97	1718566.83	14352807.73	39°31'26.0404"N	80°43'22.3161"W	1001.70	150.585	0.65	0.29	0.58	
8636.00	89.290	160.040	7171.21	1080.09	-962.13	523.61	1718598.46	14352718.20	39°31'25.1541"N	80°43'21.9158"W	1095.38	151.444	1.13	-0.39	-1.06	
8730.00	89.690	161.060	7172.05	1174.08	-1050.76	554.90	1718629.75	14352629.60	39°31'24.2772"N	80°43'21.5199"W	1188.28	152.162	1.17	0.43	1.09	
8825.00	89.750	160.740	7172.51	1269.08	-1140.53	585.99	1718660.82	14352539.87	39°31'23.3891"N	80°43'21.1268"W	1282.26	152.807	0.34	0.06	-0.34	
8919.00	88.890	159.650	7173.63	1363.06	-1228.96	617.84	1718692.65	14352451.47	39°31'22.5141"N	80°43'20.7239"W	1375.53	153.310	1.48	-0.91	-1.16	
9014.00	90.120	160.440	7174.45	1458.04	-1318.25	650.26	1718725.06	14352362.22	39°31'21.6306"N	80°43'20.3137"W	1469.91	153.744	1.54	1.29	0.83	
9109.00	88.890	158.640	7175.27	1553.00	-1407.25	683.46	1718758.25	14352273.25	39°31'20.7500"N	80°43'19.8935"W	1564.44	154.096	2.29	-1.29	-1.89	
9203.00	90.620	160.700	7175.67	1646.96	-1495.39	716.11	1718790.89	14352185.15	39°31'19.8780"N	80°43'19.4802"W	1658.01	154.411	2.86	1.84	2.19	
9298.00	89.450	160.400	7175.61	1741.96	-1584.96	747.75	1718822.51	14352095.61	39°31'18.9917"N	80°43'19.0801"W	1752.50	154.743	1.27	-1.23	-0.32	
9392.00	88.950	159.840	7176.92	1835.93	-1673.35	779.71	1718854.46	14352007.26	39°31'18.1171"N	80°43'18.6757"W	1846.09	155.017	0.80	-0.53	-0.60	
9487.00	90.370	161.190	7177.49	1930.92	-1762.91	811.39	1718886.13	14351917.74	39°31'17.2311"N	80°43'18.2749"W	1940.67	155.285	2.06	1.49	1.42	
9582.00	89.940	161.670	7177.23	2025.92	-1852.96	841.65	1718916.38	14351827.72	39°31'16.3402"N	80°43'17.8924"W	2035.15	155.572	0.68	-0.45	0.51	
9676.00	89.780	161.510	7177.46	2119.92	-1942.15	871.33	1718946.05	14351738.57	39°31'15.4578"N	80°43'17.5171"W	2128.65	155.837	0.24	-0.17	-0.17	
9771.00	89.820	159.360	7177.79	2214.90	-2031.66	903.15	1718977.85	14351649.09	39°31'14.5721"N	80°43'17.1148"W	2223.35	156.033	2.26	0.04	-2.26	
9866.00	89.780	160.450	7178.12	2309.88	-2120.87	935.79	1719010.48	14351559.91	39°31'13.6894"N	80°43'16.7018"W	2318.14	156.192	1.15	-0.04	1.15	
9960.00	89.420	160.520	7178.78	2403.88	-2209.47	967.19	1719041.86	14351471.35	39°31'12.8128"N	80°43'16.3046"W	2411.89	156.359	0.39	-0.38	0.07	
10055.00	89.080	160.130	7180.02	2498.86	-2298.92	999.17	1719073.83	14351381.94	39°31'11.9278"N	80°43'15.9000"W	2506.66	156.509	0.54	-0.36	-0.41	
10150.00	89.380	160.360	7181.30	2593.84	-2388.32	1031.27	1719105.93	14351292.58	39°31'11.0433"N	80°43'15.4939"W	2601.46	156.645	0.40	0.32	0.24	
10244.00	90.550	161.450	7181.36	2687.84	-2477.14	1062.02	1719136.66	14351203.79	39°31'10.1644"N	80°43'15.1050"W	2695.20	156.794	1.70	1.24	1.16	
10339.00	88.830	160.230	7181.87	2782.83	-2566.87	1093.20	1719167.83	14351114.09	39°31'9.2767"N	80°43'14.7107"W	2789.97	156.931	2.22	-1.81	-1.28	
10434.00	89.510	159.760	7183.25	2877.81	-2656.13	1125.70	1719200.31	14351024.87	39°31'8.3935"N	80°43'14.2996"W	2884.83	157.032	0.87	0.72	-0.49	
10528.00	90.620	160.710	7183.14	2971.80	-2744.59	1157.48	1719232.09	14350936.44	39°31'7.5182"N	80°43'13.8975"W	2978.68	157.133	1.55	1.18	1.01	
10623.00	89.510	160.300	7183.03	3066.79	-2834.14	1189.19	1719263.78	14350846.93	39°31'6.6322"N	80°43'13.4965"W	3073.52	157.237	1.25	-1.17	-0.43	



Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

WELLPATH DATA (208 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
10718.00	90.090	160.950	7183.37	3161.79	-2923.76	1220.70	1719295.28	14350757.34	39°31'5.7455"N	80°43'13.0979"W	3168.36	157.339	0.92	0.61	0.68	
10812.00	90.460	162.910	7182.91	3255.77	-3013.12	1249.86	1719324.42	14350668.02	39°31'4.8615"N	80°43'12.7295"W	3262.06	157.471	2.12	0.39	2.09	
10907.00	89.600	159.870	7182.86	3350.76	-3103.14	1280.17	1719354.73	14350578.04	39°31'3.9708"N	80°43'12.3462"W	3356.83	157.582	3.33	-0.91	-3.20	
11001.00	90.000	161.510	7183.19	3444.75	-3191.85	1311.25	1719385.80	14350489.36	39°31'3.0931"N	80°43'11.9531"W	3450.69	157.666	1.80	0.43	1.74	
11096.00	89.050	159.570	7183.98	3539.74	-3281.41	1342.90	1719417.43	14350399.83	39°31'2.2070"N	80°43'11.5529"W	3545.57	157.743	2.27	-1.00	-2.04	
11191.00	89.110	159.980	7185.51	3634.70	-3370.54	1375.74	1719450.25	14350310.74	39°31'1.3251"N	80°43'11.1374"W	3640.50	157.796	0.44	0.06	0.43	
11285.00	88.830	159.120	7187.20	3728.65	-3458.61	1408.57	1719483.08	14350222.71	39°31'0.4537"N	80°43'10.7219"W	3734.44	157.841	0.96	-0.30	-0.91	
11380.00	89.380	159.580	7188.68	3823.60	-3547.49	1442.07	1719516.56	14350133.86	39°30'59.5742"N	80°43'10.2980"W	3829.39	157.878	0.75	0.58	0.48	
11474.00	89.570	161.300	7189.54	3917.59	-3636.06	1473.54	1719548.02	14350045.33	39°30'58.6979"N	80°43'9.9000"W	3923.30	157.939	1.84	0.20	1.83	
11569.00	89.720	161.150	7190.13	4012.59	-3726.00	1504.12	1719578.58	14349955.42	39°30'57.8080"N	80°43'9.5135"W	4018.14	158.017	0.22	0.16	-0.16	
11664.00	89.660	161.450	7190.64	4107.58	-3815.99	1534.57	1719609.03	14349865.47	39°30'56.9178"N	80°43'9.1284"W	4112.99	158.093	0.32	-0.06	0.32	
11759.00	90.000	161.610	7190.93	4202.58	-3906.09	1564.67	1719639.11	14349775.40	39°30'56.0263"N	80°43'8.7480"W	4207.82	158.170	0.40	0.36	0.17	
11853.00	89.140	160.870	7191.63	4296.57	-3995.09	1594.90	1719669.33	14349686.43	39°30'55.1457"N	80°43'8.3658"W	4301.68	158.237	1.21	-0.91	-0.79	
11948.00	90.280	162.080	7192.11	4391.57	-4085.17	1625.08	1719699.50	14349596.40	39°30'54.2546"N	80°43'7.9843"W	4396.53	158.307	1.75	1.20	1.27	
12042.00	89.970	160.520	7191.91	4485.56	-4174.20	1655.22	1719729.62	14349507.40	39°30'53.3737"N	80°43'7.6033"W	4490.40	158.370	1.69	-0.33	-1.66	
12137.00	89.850	161.310	7192.06	4580.56	-4263.98	1686.28	1719760.67	14349417.66	39°30'52.4854"N	80°43'7.2106"W	4585.31	158.423	0.84	-0.13	0.83	
12231.00	89.720	162.000	7192.41	4674.56	-4353.20	1715.87	1719790.25	14349328.47	39°30'51.6027"N	80°43'6.8367"W	4679.16	158.488	0.75	-0.14	0.73	
12326.00	89.350	160.860	7193.18	4769.55	-4443.25	1746.12	1719820.49	14349238.46	39°30'50.7118"N	80°43'6.4543"W	4774.03	158.546	1.26	-0.39	-1.20	
12420.00	89.780	161.430	7193.89	4863.54	-4532.20	1776.50	1719850.85	14349149.54	39°30'49.8317"N	80°43'6.0702"W	4867.94	158.596	0.76	0.46	0.61	
12515.00	89.570	161.430	7194.43	4958.54	-4622.26	1806.75	1719881.09	14349059.52	39°30'48.9408"N	80°43'5.6878"W	4962.82	158.650	0.22	-0.22	0.00	
12610.00	89.850	161.140	7194.91	5053.54	-4712.23	1837.23	1719911.56	14348969.58	39°30'48.0506"N	80°43'5.3025"W	5057.72	158.700	0.42	0.29	-0.31	
12704.00	90.030	161.350	7195.01	5147.54	-4801.24	1867.45	1719941.78	14348880.61	39°30'47.1699"N	80°43'4.9204"W	5151.63	158.746	0.29	0.19	0.22	
12799.00	89.380	162.110	7195.50	5242.53	-4891.45	1897.23	1719971.54	14348790.43	39°30'46.2775"N	80°43'4.5440"W	5246.50	158.800	1.05	-0.68	0.80	
12893.00	89.290	161.570	7196.59	5336.51	-4980.76	1926.53	1720000.83	14348701.16	39°30'45.3939"N	80°43'4.1738"W	5340.36	158.854	0.58	-0.10	-0.57	
12988.00	89.820	161.850	7197.33	5431.50	-5070.96	1956.34	1720030.63	14348611.00	39°30'44.5015"N	80°43'3.7971"W	5435.24	158.904	0.63	0.56	0.29	
13083.00	89.910	161.890	7197.55	5526.49	-5161.24	1985.90	1720060.18	14348520.75	39°30'43.6083"N	80°43'3.4235"W	5530.12	158.955	0.10	0.09	0.04	
13178.00	89.940	162.140	7197.68	5621.48	-5251.60	2015.24	1720089.50	14348430.43	39°30'42.7143"N	80°43'3.0529"W	5624.99	159.006	0.27	0.03	0.26	
13272.00	89.480	159.600	7198.15	5715.47	-5340.40	2046.04	1720120.29	14348341.66	39°30'41.8357"N	80°43'2.6634"W	5718.93	159.037	2.75	-0.49	-2.70	
13367.00	90.120	163.560	7198.49	5810.44	-5430.51	2076.05	1720150.29	14348251.58	39°30'40.9442"N	80°43'2.2841"W	5813.82	159.078	4.22	0.67	4.17	
13461.00	90.220	158.940	7198.21	5904.42	-5519.50	2106.26	1720180.48	14348162.63	39°30'40.0638"N	80°43'1.9023"W	5907.72	159.113	4.92	0.11	-4.91	

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Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWP
Slot	Slot #05		

WELLPATH DATA (208 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
13556.00	89.940	161.400	7198.07	5999.40	-5608.86	2138.48	1720212.70	14348073.31	39°30'39.1796"N	80°43'1.4947"W	6002.70	159.130	2.61	-0.29	2.59	
13651.00	89.450	160.580	7198.58	6094.40	-5698.68	2169.42	1720243.63	14347983.53	39°30'38.2909"N	80°43'1.1035"W	6097.65	159.159	1.01	-0.52	-0.86	
13745.00	89.660	160.010	7199.31	6188.39	-5787.17	2201.12	1720275.31	14347895.07	39°30'37.4154"N	80°43'0.7027"W	6191.63	159.176	0.65	0.22	-0.61	
13840.00	89.020	162.190	7200.40	6283.37	-5877.03	2231.89	1720306.06	14347805.24	39°30'36.5262"N	80°43'0.3137"W	6286.56	159.205	2.39	-0.67	2.29	
13935.00	89.600	161.350	7201.55	6378.36	-5967.26	2261.60	1720335.77	14347715.05	39°30'35.6336"N	80°42'59.9382"W	6381.46	159.243	1.07	0.61	-0.88	
14029.00	89.570	160.010	7202.23	6472.35	-6055.96	2292.70	1720366.86	14347626.38	39°30'34.7560"N	80°42'59.5450"W	6475.43	159.264	1.43	-0.03	-1.43	
14124.00	90.000	161.010	7202.58	6567.34	-6145.51	2324.40	1720398.54	14347536.86	39°30'33.8699"N	80°42'59.1442"W	6570.40	159.282	1.15	0.45	1.05	
14219.00	89.970	161.580	7202.61	6662.34	-6235.50	2354.86	1720428.99	14347446.92	39°30'32.9796"N	80°42'58.7592"W	6665.34	159.311	0.60	-0.03	0.60	
14314.00	90.180	162.140	7202.49	6757.33	-6325.77	2384.44	1720458.56	14347356.67	39°30'32.0865"N	80°42'58.3854"W	6760.25	159.347	0.63	0.22	0.59	
14408.00	90.220	161.660	7202.16	6851.32	-6415.12	2413.64	1720487.75	14347267.36	39°30'31.2025"N	80°42'58.0164"W	6854.16	159.382	0.51	0.04	-0.51	
14503.00	90.220	161.250	7201.79	6946.32	-6505.19	2443.86	1720517.95	14347177.33	39°30'30.3114"N	80°42'57.6346"W	6949.09	159.410	0.43	0.00	-0.43	
14598.00	89.380	160.500	7202.12	7041.31	-6594.94	2474.98	1720549.06	14347087.61	39°30'29.4234"N	80°42'57.2411"W	7044.06	159.430	1.19	-0.88	-0.79	
14692.00	89.910	158.450	7202.71	7135.27	-6682.97	2507.94	1720582.01	14346999.62	39°30'28.5524"N	80°42'56.8242"W	7138.05	159.430	2.25	0.56	-2.18	
14787.00	89.970	159.500	7202.81	7230.21	-6771.64	2542.02	1720616.08	14346910.98	39°30'27.6749"N	80°42'56.3929"W	7233.05	159.424	1.11	0.06	1.11	
14882.00	89.910	161.370	7202.91	7325.20	-6861.15	2573.83	1720647.87	14346821.51	39°30'26.7892"N	80°42'55.9907"W	7328.03	159.437	1.97	-0.06	1.97	
14976.00	90.030	160.750	7202.95	7419.20	-6950.06	2604.34	1720678.37	14346732.63	39°30'25.9096"N	80°42'55.6050"W	7421.99	159.458	0.67	0.13	-0.66	
15071.00	90.180	162.230	7202.78	7514.19	-7040.15	2634.50	1720708.52	14346642.58	39°30'25.0183"N	80°42'55.2239"W	7516.93	159.484	1.57	0.16	1.56	
15166.00	89.910	161.760	7202.71	7609.18	-7130.49	2663.87	1720737.87	14346552.27	39°30'24.1245"N	80°42'54.8529"W	7611.84	159.515	0.57	-0.28	-0.49	
15260.00	89.690	162.400	7203.03	7703.16	-7219.93	2692.79	1720766.78	14346462.87	39°30'23.2396"N	80°42'54.4875"W	7705.75	159.546	0.72	-0.23	0.68	
15354.00	89.660	161.620	7203.57	7797.15	-7309.34	2721.82	1720795.80	14346373.50	39°30'22.3551"N	80°42'54.1208"W	7799.66	159.576	0.83	-0.03	-0.83	
15449.00	89.140	161.560	7204.56	7892.14	-7399.47	2751.82	1720825.79	14346283.41	39°30'21.4634"N	80°42'53.7417"W	7894.60	159.600	0.55	-0.55	-0.06	
15544.00	89.020	160.220	7206.09	7987.12	-7489.22	2782.92	1720856.88	14346193.69	39°30'20.5754"N	80°42'53.3486"W	7989.56	159.615	1.42	-0.13	-1.41	
15638.00	90.430	162.430	7206.54	8081.11	-7578.26	2813.01	1720886.96	14346104.68	39°30'19.6944"N	80°42'52.9682"W	8083.51	159.635	2.79	1.50	2.35	
15733.00	89.420	161.290	7206.66	8176.10	-7668.54	2842.59	1720916.53	14346014.44	39°30'18.8012"N	80°42'52.5945"W	8178.43	159.661	1.60	-1.06	-1.20	
15828.00	89.850	162.220	7207.27	8271.09	-7758.76	2872.33	1720946.25	14345924.26	39°30'17.9086"N	80°42'52.2187"W	8273.37	159.685	1.08	0.45	0.98	
15922.00	89.020	161.290	7208.20	8365.07	-7848.03	2901.76	1720975.67	14345835.02	39°30'17.0254"N	80°42'51.8469"W	8367.30	159.708	1.33	-0.88	-0.99	
16017.00	88.980	161.170	7209.85	8460.06	-7937.96	2932.32	1721006.22	14345745.13	39°30'16.1356"N	80°42'51.4606"W	8462.25	159.726	0.13	-0.04	-0.13	
16112.00	89.690	161.870	7210.96	8555.05	-8028.05	2962.43	1721036.32	14345655.07	39°30'15.2443"N	80°42'51.0802"W	8557.20	159.745	1.05	0.75	0.74	
16207.00	90.400	161.650	7210.88	8650.04	-8118.28	2992.17	1721066.04	14345564.88	39°30'14.3516"N	80°42'50.7045"W	8652.14	159.768	0.78	0.75	-0.23	
16301.00	90.150	161.700	7210.43	8744.03	-8207.51	3021.72	1721095.59	14345475.68	39°30'13.4688"N	80°42'50.3311"W	8746.09	159.788	0.27	-0.27	0.05	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWP
Slot	Slot #05		

WELLPATH DATA (208 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]	
16396.00	89.720	161.560	7210.54	8839.03	-8297.67	3051.66	1721125.51	14345385.56	39°30'12.5768"N	80°42'49.9528"W	8841.04	159.808	0.48	-0.45	-0.15	
16491.00	89.600	161.230	7211.10	8934.02	-8387.70	3081.97	1721155.81	14345295.56	39°30'11.6860"N	80°42'49.5698"W	8936.00	159.825	0.37	-0.13	-0.35	
16586.00	89.630	161.580	7211.74	9029.02	-8477.74	3112.26	1721186.09	14345205.56	39°30'10.7952"N	80°42'49.1870"W	9030.96	159.841	0.37	0.03	0.37	
16680.00	89.660	161.800	7212.32	9123.01	-8566.98	3141.79	1721215.61	14345116.35	39°30'9.9122"N	80°42'48.8139"W	9124.91	159.860	0.24	0.03	0.23	
16775.00	89.230	160.900	7213.24	9218.00	-8656.99	3172.17	1721245.97	14345026.38	39°30'9.0217"N	80°42'48.4300"W	9219.88	159.876	1.05	-0.45	-0.95	
16870.00	90.060	162.260	7213.83	9312.99	-8747.12	3202.18	1721275.98	14344936.29	39°30'8.1300"N	80°42'48.0507"W	9314.83	159.893	1.68	0.87	1.43	
16965.00	89.940	161.280	7213.83	9407.99	-8837.35	3231.90	1721305.69	14344846.09	39°30'7.2373"N	80°42'47.6753"W	9409.78	159.912	1.04	-0.13	-1.03	
17060.00	89.850	162.220	7214.01	9502.98	-8927.57	3261.65	1721335.42	14344755.91	39°30'6.3447"N	80°42'47.2994"W	9504.73	159.930	0.99	-0.09	0.99	
17154.00	89.880	161.400	7214.23	9596.97	-9016.87	3291.00	1721364.76	14344666.64	39°30'5.4612"N	80°42'46.9287"W	9598.68	159.949	0.87	0.03	-0.87	
17249.00	89.290	161.240	7214.92	9691.96	-9106.86	3321.42	1721395.17	14344576.69	39°30'4.5708"N	80°42'46.5442"W	9693.65	159.962	0.64	-0.62	-0.17	
17343.00	90.060	161.760	7215.45	9785.96	-9196.00	3351.25	1721424.98	14344487.58	39°30'3.6889"N	80°42'46.1674"W	9787.61	159.977	0.99	0.82	0.55	
17438.00	90.090	161.860	7215.32	9880.95	-9286.25	3380.90	1721454.63	14344397.36	39°30'2.7959"N	80°42'45.7927"W	9882.56	159.995	0.11	0.03	0.11	
17533.00	89.050	162.310	7216.04	9975.93	-9376.64	3410.13	1721483.84	14344307.01	39°30'1.9017"N	80°42'45.4236"W	9977.50	160.015	1.19	-1.09	0.47	
17627.00	89.570	161.660	7217.17	10069.91	-9466.03	3439.19	1721512.90	14344217.66	39°30'1.0173"N	80°42'45.0564"W	10071.43	160.033	0.89	0.55	-0.69	
17722.00	89.140	161.050	7218.24	10164.90	-9556.04	3469.56	1721543.25	14344127.69	39°30'0.1268"N	80°42'44.6727"W	10166.40	160.045	0.79	-0.45	-0.64	
17816.00	89.630	161.640	7219.25	10258.89	-9645.09	3499.63	1721573.31	14344038.67	39°29'59.2457"N	80°42'44.2928"W	10260.37	160.057	0.82	0.52	0.63	
17911.00	89.720	161.800	7219.79	10353.88	-9735.30	3529.43	1721603.09	14343948.50	39°29'58.3532"N	80°42'43.9163"W	10355.33	160.072	0.19	0.09	0.17	
18006.00	89.780	161.970	7220.20	10448.87	-9825.59	3558.96	1721632.62	14343858.25	39°29'57.4599"N	80°42'43.5432"W	10450.28	160.089	0.19	0.06	0.18	
18101.00	89.630	161.740	7220.69	10543.86	-9915.86	3588.55	1721662.19	14343768.01	39°29'56.5668"N	80°42'43.1695"W	10545.24	160.105	0.29	-0.16	-0.24	
18195.00	89.540	161.090	7221.37	10637.86	-10004.96	3618.51	1721692.14	14343678.95	39°29'55.6853"N	80°42'42.7910"W	10639.21	160.116	0.70	-0.10	-0.69	
18290.00	89.290	161.950	7222.34	10732.85	-10095.05	3648.62	1721722.24	14343588.89	39°29'54.7939"N	80°42'42.4105"W	10734.17	160.129	0.94	-0.26	0.91	
18385.00	89.170	160.960	7223.62	10827.83	-10185.11	3678.83	1721752.44	14343498.86	39°29'53.9029"N	80°42'42.0288"W	10829.14	160.140	1.05	-0.13	-1.04	
18479.00	88.650	160.470	7225.41	10921.81	-10273.82	3709.87	1721783.46	14343410.19	39°29'53.0251"N	80°42'41.6365"W	10923.12	160.145	0.76	-0.55	-0.52	
18573.00	89.480	160.790	7226.94	11015.80	-10362.49	3741.04	1721814.62	14343321.56	39°29'52.1478"N	80°42'41.2425"W	11017.10	160.150	0.95	0.88	0.34	
18668.00	89.970	162.130	7227.40	11110.79	-10452.55	3771.25	1721844.82	14343231.53	39°29'51.2567"N	80°42'40.8609"W	11112.07	160.161	1.50	0.52	1.41	
18763.00	89.510	161.530	7227.83	11205.78	-10542.81	3800.87	1721874.43	14343141.30	39°29'50.3637"N	80°42'40.4867"W	11207.03	160.175	0.80	-0.48	-0.63	
18854.00	89.540	161.210	7228.58	11296.78	-10629.04	3829.94	1721903.49	14343055.11	39°29'49.5106"N	80°42'40.1194"W	11298.01	160.184	0.35	0.03	-0.35	
18879.00†	89.540	161.210	7228.78	11321.78	-10652.71	3837.99	1721911.54	14343031.45	39°29'49.2764"N	80°42'40.0176"W	11323.00	160.187	0.00	0.00	0.00	Projected MD at TD: 18879'

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Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

HOLE & CASING SECTIONS - Ref Wellbore: Daags Unit 1H AWB Ref Wellpath: Daags Unit 1H AWP Proj: 18879'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	130.00	100.00	30.00	130.00	0.00	0.00	0.21	-0.10
17.5in Open Hole	130.00	685.00	555.00	130.00	684.98	0.21	-0.10	1.09	3.18
13.375in Casing Surface	30.00	665.00	635.00	30.00	664.98	0.00	0.00	1.17	3.11
12.25in Open Hole	685.00	2623.00	1938.00	684.98	2622.90	1.09	3.18	-10.54	15.04
9.625in Casing Intermediate	30.00	2603.00	2573.00	30.00	2602.90	0.00	0.00	-10.48	14.85
8.75in Open Hole	2623.00	6413.00	3790.00	2622.90	6357.81	-10.54	15.04	610.59	-55.03
8.5in Open Hole	6413.00	18879.00	12466.00	6357.81	7228.78	610.59	-55.03	-10652.71	3837.99
5.5in Casing Production	30.00	18859.00	18829.00	30.00	7228.62	0.00	0.00	-10633.77	3831.55

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Daags Unit 1H POE Rev-2	7144.00	137.41	142.15	1718217.15	14353817.31	39°31'36.0328"N	80°43'26.7407"W	point
Daags Unit 1H BHL Rev-2	7170.00	-10678.51	3860.13	1721933.66	14343005.66	39°29'49.0207"N	80°42'39.7364"W	point
Daags Unit 1H LP Rev-2	7170.00	-43.42	204.31	1718279.29	14353636.54	39°31'34.2437"N	80°43'25.9544"W	point
Daags Unit 1H 50' L/R Hard Line	7500.00	-5270.55	2001.14	1720075.41	14348411.48	39°30'42.5275"N	80°43'3.2335"W	rectangle
2D Rectangle 11437.1 x 100.								



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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

WELLPATH COMPOSITION - Ref Wellbore: Daags Unit 1H AWB Ref Wellpath: Daags Unit 1H AWP Proj: 18879'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	570.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-570')	Daags Unit 1H AWB	19/Oct/2021
570.00	2550.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (570')(699'-2550')	Daags Unit 1H AWB	19/Oct/2021
2550.00	6356.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (2550')(2663'-6356')	Daags Unit 1H AWB	16/Dec/2021
6356.00	18879.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH AT Curve <8-1/2"> (6356')(6395'-18854')	Daags Unit 1H AWB	16/Dec/2021

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Actual Wellpath Report

Daags Unit 1H AWP Proj: 18879'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Daags Unit 1H
Field	Wetzel	API	47-103-03425-0000
Facility	Dogwood Pad	Wellbore	Daags Unit 1H AWB
Slot	Slot #05		

COMMENTS

Wellpath general comments

API: 47-103-03425-0000
BH Job #: 111092444
Rig: H&P 519
Duration: 12/17/2021-12/22/2021
Gyrodatta MS Gyro <17-1/2"> (100'-570')
APS EM <12-1/4"> (570')(699'-2550')
APS EM <8-3/4"> (2550')(2663'-6356')
BH AT Curve <8-1/2"> (6356')(6395'-18854')
Sycamore: 6856' MD
Middlesex: 7005' MD
Burkett: 7151' MD
Tully: 7207' MD
Marcellus POE: 7472' MD
Projected MD at TD: 18879'