

Vertical Section (ft)
Azimuth 341.160° with reference 0.00 N, 0.00 E



Actual Wellpath Report

Atkinson Unit 1H AWP Proj: 22463'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet [32067]	Software System	WellArchitect® 7.0
North Reference	Grid	Report Generated By	Edsaryar on 2025-12-30 at 12:52:54 AM
Scale	0.999633	Last Updated	2025-12-29
Convergence at slot	0.38° 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	26.30	-36.51	1811265.22	14288463.06	39°20'45.3769"N	80°23'44.4544"W
Facility Reference Pt			1811301.72	14288436.77	39°20'45.1145"N	80°23'43.9918"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	1179.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1179.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot D)	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	341.160°

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WELLPATH DATA (244 stations) † = interpolated, ‡ = extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00†	0.000	11.520	0.00	0.00	0.00	0.00	1811265.22	14288463.06	39°20'45.3769"N	80°23'44.4544"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	11.520	25.50	0.00	0.00	0.00	1811265.22	14288463.06	39°20'45.3769"N	80°23'44.4544"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.680	11.520	100.00	0.38	0.43	0.09	1811265.31	14288463.49	39°20'45.3812"N	80°23'44.4532"W	0.44	11.520	0.91	0.91	0.00	Gyrodata MS Gyro <17-1/2"> (100'-552')
200.00	0.540	22.940	199.99	1.24	1.45	0.39	1811265.61	14288464.51	39°20'45.3912"N	80°23'44.4493"W	1.50	15.086	0.18	-0.14	11.42	
300.00	0.500	30.020	299.99	1.88	2.26	0.79	1811266.01	14288465.32	39°20'45.3992"N	80°23'44.4441"W	2.40	19.320	0.08	-0.04	7.08	
400.00	0.350	72.850	399.99	2.16	2.73	1.30	1811266.52	14288465.79	39°20'45.4038"N	80°23'44.4376"W	3.02	25.522	0.34	-0.15	42.83	
500.00	0.270	104.880	499.98	2.02	2.76	1.82	1811267.04	14288465.82	39°20'45.4040"N	80°23'44.4309"W	3.31	33.454	0.19	-0.08	32.03	
552.00	0.250	108.990	551.98	1.88	2.69	2.05	1811267.27	14288465.75	39°20'45.4033"N	80°23'44.4281"W	3.38	37.287	0.05	-0.04	7.90	
594.00	0.260	94.240	593.98	1.79	2.65	2.23	1811267.45	14288465.71	39°20'45.4030"N	80°23'44.4258"W	3.47	40.048	0.16	0.02	-35.12	APS EM <12-1/4"> (552')(594'-3494')
683.00	1.050	197.860	682.98	1.06	1.86	2.18	1811267.40	14288464.92	39°20'45.3951"N	80°23'44.4264"W	2.87	49.518	1.28	0.89	116.43	
773.00	2.810	240.450	772.93	-0.01	-0.01	0.01	1811265.23	14288463.05	39°20'45.3768"N	80°23'44.4543"W	0.01	143.993	2.40	1.96	47.32	
857.00	4.990	240.330	856.73	-1.08	-2.84	-4.96	1811260.26	14288460.23	39°20'45.3492"N	80°23'44.5177"W	5.71	240.229	2.60	2.60	-0.14	
947.00	6.690	240.280	946.26	-2.81	-7.37	-12.91	1811252.31	14288455.69	39°20'45.3049"N	80°23'44.6193"W	14.87	240.274	1.89	1.89	-0.06	
1036.00	8.990	238.340	1034.42	-5.33	-13.59	-23.33	1811241.89	14288449.47	39°20'45.2441"N	80°23'44.7525"W	27.01	239.777	2.60	2.58	-2.18	
1131.00	10.620	245.570	1128.03	-7.83	-21.11	-37.62	1811227.61	14288441.96	39°20'45.1707"N	80°23'44.9351"W	43.14	240.703	2.15	1.72	7.61	
1226.00	10.070	244.710	1221.49	-9.62	-28.28	-53.10	1811212.14	14288434.79	39°20'45.1009"N	80°23'45.1327"W	60.16	241.963	0.60	-0.58	-0.91	
1320.00	9.770	246.760	1314.08	-11.15	-34.94	-67.86	1811197.38	14288428.14	39°20'45.0361"N	80°23'45.3211"W	76.33	242.760	0.49	-0.32	2.18	
1415.00	9.650	245.810	1407.72	-12.51	-41.38	-82.53	1811182.72	14288421.69	39°20'44.9734"N	80°23'45.5084"W	92.32	243.372	0.21	-0.13	-1.00	
1509.00	9.930	246.480	1500.35	-13.91	-47.84	-97.15	1811168.11	14288415.23	39°20'44.9105"N	80°23'45.6950"W	108.29	243.781	0.32	0.30	0.71	
1604.00	9.870	245.330	1593.94	-15.40	-54.51	-112.06	1811153.20	14288408.57	39°20'44.8455"N	80°23'45.8854"W	124.61	244.060	0.22	-0.06	-1.21	
1699.00	9.700	245.030	1687.56	-17.08	-61.29	-126.71	1811138.55	14288401.80	39°20'44.7795"N	80°23'46.0725"W	140.76	244.189	0.19	-0.18	-0.32	
1793.00	9.710	238.980	1780.21	-19.60	-68.72	-140.69	1811124.58	14288394.37	39°20'44.7070"N	80°23'46.2509"W	156.57	243.968	1.08	0.01	-6.44	
1888.00	9.360	239.440	1873.90	-22.86	-76.77	-154.20	1811111.07	14288386.32	39°20'44.6283"N	80°23'46.4237"W	172.26	243.533	0.38	-0.37	0.48	
1982.00	9.290	237.490	1966.66	-26.21	-84.74	-167.19	1811098.10	14288378.35	39°20'44.5504"N	80°23'46.5896"W	187.43	243.122	0.34	-0.07	-2.07	
2077.00	9.310	237.130	2060.41	-29.88	-93.03	-180.11	1811085.18	14288370.07	39°20'44.4694"N	80°23'46.7547"W	202.71	242.683	0.06	0.02	-0.38	
2172.00	9.320	236.480	2154.16	-33.70	-101.45	-192.97	1811072.32	14288361.65	39°20'44.3870"N	80°23'46.9192"W	218.01	242.269	0.11	0.01	-0.68	
2267.00	9.460	234.770	2247.88	-37.85	-110.20	-205.76	1811059.53	14288352.90	39°20'44.3013"N	80°23'47.0828"W	233.41	241.828	0.33	0.15	-1.80	
2361.00	9.130	243.610	2340.66	-41.01	-117.97	-218.75	1811046.55	14288345.13	39°20'44.2254"N	80°23'47.2488"W	248.54	241.663	1.56	-0.35	9.40	
2456.00	9.010	247.930	2434.47	-42.42	-124.11	-232.40	1811032.91	14288338.99	39°20'44.1656"N	80°23'47.4230"W	263.47	241.895	0.73	-0.13	4.55	
2551.00	9.030	246.490	2528.29	-43.44	-129.88	-246.13	1811019.18	14288333.22	39°20'44.1094"N	80°23'47.5983"W	278.30	242.179	0.24	0.02	-1.52	

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Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (244 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
2645.00	9.050	247.000	2621.13	-44.58	-135.72	-259.70	1811005.62	14288327.39	39°20'44.0527"N	80°23'47.7715"W	293.02	242.409	0.09	0.02	0.54	
2740.00	8.950	246.080	2714.96	-45.78	-141.63	-273.33	1810991.99	14288321.48	39°20'43.9951"N	80°23'47.9455"W	307.85	242.609	0.18	-0.11	-0.97	
2835.00	8.840	245.040	2808.81	-47.21	-147.71	-286.71	1810978.62	14288315.41	39°20'43.9360"N	80°23'48.1162"W	322.52	242.743	0.21	-0.12	-1.09	
2929.00	8.880	243.720	2901.69	-48.92	-153.97	-299.76	1810965.57	14288309.15	39°20'43.8750"N	80°23'48.2829"W	336.99	242.813	0.22	0.04	-1.40	
3024.00	8.910	242.990	2995.55	-50.91	-160.56	-312.89	1810952.45	14288302.56	39°20'43.8107"N	80°23'48.4506"W	351.68	242.836	0.12	0.03	-0.77	
3118.00	8.940	241.130	3088.41	-53.22	-167.39	-325.77	1810939.57	14288295.73	39°20'43.7440"N	80°23'48.6151"W	366.26	242.805	0.31	0.03	-1.98	
3213.00	8.870	240.360	3182.27	-55.88	-174.57	-338.60	1810926.75	14288288.55	39°20'43.6739"N	80°23'48.7790"W	380.95	242.725	0.15	-0.07	-0.81	
3308.00	8.880	238.770	3276.13	-58.82	-182.00	-351.24	1810914.11	14288281.13	39°20'43.6013"N	80°23'48.9405"W	395.59	242.608	0.26	0.01	-1.67	
3403.00	8.970	236.520	3369.98	-62.27	-189.88	-363.68	1810901.67	14288273.25	39°20'43.5242"N	80°23'49.0996"W	410.27	242.430	0.38	0.09	-2.37	
3494.00	8.950	235.990	3459.87	-65.91	-197.76	-375.47	1810889.89	14288265.38	39°20'43.4472"N	80°23'49.2503"W	424.36	242.224	0.09	-0.02	-0.58	
3590.00	8.400	233.380	3554.77	-70.01	-206.12	-387.29	1810878.08	14288257.02	39°20'43.3653"N	80°23'49.4014"W	438.72	241.978	0.70	-0.57	-2.72	APS EM <8-3/4"> (3494')(3590'-6433')
3684.00	8.460	239.440	3647.76	-73.51	-213.73	-398.75	1810866.62	14288249.41	39°20'43.2908"N	80°23'49.5480"W	452.42	241.809	0.95	0.06	6.45	
3779.00	8.960	249.730	3741.67	-75.11	-219.84	-411.71	1810853.66	14288243.30	39°20'43.2312"N	80°23'49.7134"W	466.73	241.899	1.72	0.53	10.83	
3873.00	8.710	252.530	3834.55	-75.13	-224.52	-425.36	1810840.01	14288238.63	39°20'43.1860"N	80°23'49.8876"W	480.98	242.174	0.53	-0.27	2.98	
3968.00	7.820	247.190	3928.57	-75.40	-229.18	-438.18	1810827.20	14288233.96	39°20'43.1407"N	80°23'50.0512"W	494.50	242.389	1.24	-0.94	-5.62	
4062.00	7.980	248.880	4021.67	-76.11	-234.01	-450.17	1810815.22	14288229.13	39°20'43.0938"N	80°23'50.2041"W	507.36	242.533	0.30	0.17	1.80	
4157.00	10.160	243.920	4115.48	-77.42	-240.07	-463.84	1810801.55	14288223.08	39°20'43.0348"N	80°23'50.3787"W	522.29	242.635	2.44	2.29	-5.22	
4252.00	9.420	240.780	4209.10	-79.88	-247.55	-478.16	1810787.24	14288215.60	39°20'42.9618"N	80°23'50.5615"W	538.44	242.628	0.96	-0.78	-3.31	
4346.00	9.170	244.480	4301.87	-82.14	-254.53	-491.63	1810773.77	14288208.62	39°20'42.8937"N	80°23'50.7336"W	553.61	242.628	0.69	-0.27	3.94	
4441.00	9.750	242.160	4395.57	-84.28	-261.55	-505.57	1810759.83	14288201.60	39°20'42.8252"N	80°23'50.9117"W	569.22	242.646	0.73	0.61	-2.44	
4536.00	11.570	242.380	4488.93	-86.99	-269.73	-521.13	1810744.28	14288193.43	39°20'42.7455"N	80°23'51.1104"W	586.79	242.635	1.92	1.92	0.23	
4630.00	10.320	237.830	4581.22	-90.37	-278.58	-536.61	1810728.81	14288184.58	39°20'42.6590"N	80°23'51.3082"W	604.61	242.564	1.62	-1.33	-4.84	
4725.00	10.520	241.790	4674.65	-93.74	-287.21	-551.45	1810713.97	14288175.96	39°20'42.5747"N	80°23'51.4979"W	621.76	242.488	0.78	0.21	4.17	
4819.00	9.410	238.870	4767.24	-96.78	-295.24	-565.59	1810699.83	14288167.93	39°20'42.4962"N	80°23'51.6785"W	638.02	242.435	1.30	-1.18	-3.11	
4914.00	9.160	243.640	4860.99	-99.42	-302.61	-579.02	1810686.42	14288160.56	39°20'42.4242"N	80°23'51.8500"W	653.33	242.407	0.85	-0.26	5.02	
5008.00	9.350	251.770	4953.77	-100.32	-308.32	-592.98	1810672.46	14288154.85	39°20'42.3687"N	80°23'52.0282"W	668.34	242.527	1.40	0.20	8.65	
5106.00	8.690	249.990	5050.56	-100.38	-313.35	-607.49	1810657.95	14288149.83	39°20'42.3200"N	80°23'52.2134"W	683.55	242.715	0.73	-0.67	-1.82	
5200.00	9.620	247.690	5143.36	-101.00	-318.76	-621.43	1810644.02	14288144.42	39°20'42.2675"N	80°23'52.3912"W	698.42	242.845	1.06	0.99	-2.45	
5295.00	10.240	248.810	5236.94	-101.83	-324.82	-636.65	1810628.81	14288138.36	39°20'42.2085"N	80°23'52.5854"W	714.73	242.969	0.68	0.65	1.18	
5390.00	9.020	244.450	5330.60	-103.05	-331.09	-651.24	1810614.22	14288132.09	39°20'42.1476"N	80°23'52.7717"W	730.57	243.051	1.50	-1.28	-4.59	

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5484.00	9.250	243.490	5423.41	-104.92	-337.64	-664.65	1810600.81	14288125.55	39°20'42.0837"N	80°23'52.9429"W	745.49	243.070	0.29	0.24	-1.02	
5578.00	10.030	244.130	5516.08	-106.93	-344.58	-678.78	1810586.69	14288118.60	39°20'42.0160"N	80°23'53.1233"W	761.23	243.085	0.84	0.83	0.68	
5673.00	8.480	239.960	5609.84	-109.30	-351.70	-692.29	1810573.19	14288111.49	39°20'41.9466"N	80°23'53.2959"W	776.50	243.068	1.78	-1.63	-4.39	
5768.00	8.360	244.360	5703.82	-111.48	-358.19	-704.58	1810560.90	14288105.00	39°20'41.8832"N	80°23'53.4529"W	790.40	243.052	0.69	-0.13	4.63	
5862.00	9.240	247.870	5796.71	-112.72	-363.99	-717.73	1810547.76	14288099.20	39°20'41.8267"N	80°23'53.6207"W	804.75	243.108	1.10	0.94	3.73	
5957.00	9.770	246.010	5890.41	-113.88	-370.15	-732.16	1810533.33	14288093.05	39°20'41.7669"N	80°23'53.8049"W	820.40	243.181	0.64	0.56	-1.96	
6052.00	10.620	241.610	5983.91	-116.06	-377.59	-747.22	1810518.27	14288085.61	39°20'41.6943"N	80°23'53.9973"W	837.20	243.192	1.21	0.89	-4.63	
6146.00	8.860	234.390	6076.55	-119.58	-385.92	-760.73	1810504.77	14288077.28	39°20'41.6129"N	80°23'54.1699"W	853.02	243.101	2.28	-1.87	-7.68	
6244.00	8.350	235.930	6173.45	-123.63	-394.30	-772.76	1810492.75	14288068.91	39°20'41.5308"N	80°23'54.3238"W	867.54	242.967	0.57	-0.52	1.57	
6338.00	9.190	238.440	6266.35	-127.08	-402.05	-784.81	1810480.70	14288061.16	39°20'41.4550"N	80°23'54.4778"W	881.80	242.874	0.98	0.89	2.67	
6433.00	10.050	240.100	6360.01	-130.34	-410.16	-798.46	1810467.05	14288053.06	39°20'41.3758"N	80°23'54.6522"W	897.64	242.811	0.95	0.91	1.75	
6442.00†	9.998	239.875	6368.88	-130.64	-410.94	-799.82	1810465.70	14288052.27	39°20'41.3681"N	80°23'54.6696"W	899.21	242.806	0.72	-0.58	-2.50	Sycamore: 6442' MD
6480.00	9.780	238.900	6406.31	-131.97	-414.26	-805.43	1810460.08	14288048.95	39°20'41.3357"N	80°23'54.7413"W	905.72	242.782	0.72	-0.57	-2.57	BH Lucida <8-1/2"> (6433')(6480'-22438')
6584.00	10.240	273.270	6508.82	-130.37	-418.30	-822.24	1810443.28	14288044.91	39°20'41.2969"N	80°23'54.9556"W	922.53	243.036	5.68	0.44	33.05	
6679.00	14.490	308.650	6601.72	-117.14	-410.38	-839.98	1810425.54	14288052.83	39°20'41.3763"N	80°23'55.1808"W	934.87	243.962	8.94	4.47	37.24	
6700.00†	15.871	313.090	6621.99	-112.39	-406.78	-844.13	1810421.40	14288056.43	39°20'41.4122"N	80°23'55.2333"W	937.03	244.271	8.59	6.57	21.14	Middlesex: 6700' MD
6773.00	21.160	323.820	6691.20	-90.99	-389.31	-859.22	1810406.32	14288073.90	39°20'41.5858"N	80°23'55.4238"W	943.30	245.625	8.59	7.25	14.70	
6868.00	27.860	332.430	6777.62	-52.62	-355.74	-879.64	1810385.90	14288107.45	39°20'41.9189"N	80°23'55.6809"W	948.85	247.981	7.98	7.05	9.06	
6891.00†	29.929	333.395	6797.76	-41.63	-345.85	-884.70	1810380.85	14288117.34	39°20'42.0171"N	80°23'55.7445"W	949.90	248.648	9.22	9.00	4.20	Burkett: 6891' MD
6924.00†	32.908	334.586	6825.92	-24.56	-330.39	-892.23	1810373.31	14288132.80	39°20'42.1704"N	80°23'55.8391"W	951.44	249.681	9.22	9.03	3.61	Tully: 6924' MD
6962.00	36.350	335.740	6857.18	-3.09	-310.79	-901.29	1810364.26	14288152.39	39°20'42.3646"N	80°23'55.9527"W	953.37	250.975	9.22	9.06	3.04	
7057.00	45.740	337.430	6928.75	59.03	-253.58	-925.98	1810339.59	14288209.58	39°20'42.9317"N	80°23'56.2620"W	960.07	254.685	9.95	9.88	1.78	
7152.00	54.520	336.770	6989.59	131.69	-186.49	-954.34	1810311.23	14288276.64	39°20'43.5966"N	80°23'56.6174"W	972.39	258.943	9.26	9.24	-0.69	
7246.00	64.550	337.280	7037.19	212.39	-111.98	-985.91	1810279.67	14288351.12	39°20'44.3351"N	80°23'57.0129"W	992.25	263.520	10.68	10.67	0.54	
7249.00†	64.837	337.345	7038.47	215.10	-109.48	-986.96	1810278.63	14288353.62	39°20'44.3599"N	80°23'57.0260"W	993.01	263.670	9.77	9.58	2.15	Marcellus POE: 7249' MD
7341.00	73.660	339.200	7071.04	300.94	-29.63	-1018.74	1810246.86	14288433.44	39°20'45.1512"N	80°23'57.4238"W	1019.17	268.334	9.77	9.59	2.02	
7435.00	81.260	340.660	7091.43	392.60	56.50	-1050.18	1810215.42	14288519.54	39°20'46.0045"N	80°23'57.8168"W	1051.70	273.079	8.23	8.09	1.55	
7530.00	89.230	341.000	7099.30	487.20	145.85	-1081.24	1810184.37	14288608.85	39°20'46.8896"N	80°23'58.2046"W	1091.04	277.682	8.40	8.39	0.36	
7625.00	88.860	340.450	7100.89	582.18	235.51	-1112.60	1810153.03	14288698.48	39°20'47.7778"N	80°23'58.5961"W	1137.25	281.952	0.70	-0.39	-0.58	
7719.00	89.600	340.410	7102.15	676.16	324.07	-1144.08	1810121.56	14288787.01	39°20'48.6552"N	80°23'58.9893"W	1189.10	285.815	0.79	0.79	-0.04	

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Atkinson Unit 1H AWP Proj: 22463'
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REFERENCE WELLPATH IDENTIFICATION

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Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (244 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
7814.00	89.630	340.340	7102.79	771.15	413.55	-1175.99	1810089.66	14288876.46	39°20'49.5416"N	80°23'59.3879"W	1246.59	289.375	0.08	0.03	-0.07	
7909.00	89.540	341.470	7103.48	866.15	503.32	-1207.07	1810058.60	14288966.19	39°20'50.4309"N	80°23'59.7759"W	1307.80	292.635	1.19	-0.09	1.19	
8003.00	89.540	341.510	7104.23	960.14	592.45	-1236.91	1810028.77	14289055.30	39°20'51.3138"N	80°24'0.1482"W	1371.47	295.594	0.04	0.00	0.04	
8098.00	89.450	341.590	7105.07	1055.14	682.57	-1266.97	1809998.72	14289145.38	39°20'52.2064"N	80°24'0.5232"W	1439.14	298.313	0.13	-0.09	0.08	
8192.00	89.450	341.640	7105.97	1149.13	771.77	-1296.62	1809969.08	14289234.54	39°20'53.0899"N	80°24'0.8931"W	1508.92	300.762	0.05	0.00	0.05	
8287.00	89.480	341.250	7106.86	1244.12	861.82	-1326.85	1809938.86	14289324.57	39°20'53.9820"N	80°24'1.2702"W	1582.17	303.005	0.41	0.03	-0.41	
8382.00	89.380	341.360	7107.80	1339.12	951.81	-1357.30	1809908.43	14289414.52	39°20'54.8733"N	80°24'1.6502"W	1657.77	305.040	0.16	-0.11	0.12	
8477.00	89.510	341.220	7108.72	1434.11	1041.78	-1387.77	1809877.96	14289504.46	39°20'55.7646"N	80°24'2.0305"W	1735.28	306.895	0.20	0.14	-0.15	
8571.00	89.450	341.400	7109.58	1528.11	1130.82	-1417.89	1809847.85	14289593.46	39°20'56.6466"N	80°24'2.4064"W	1813.61	308.574	0.20	-0.06	0.19	
8666.00	89.480	341.500	7110.46	1623.11	1220.88	-1448.11	1809817.64	14289683.49	39°20'57.5387"N	80°24'2.7835"W	1894.09	310.134	0.11	0.03	0.11	
8760.00	89.570	341.590	7111.24	1717.10	1310.04	-1477.87	1809787.90	14289772.62	39°20'58.4219"N	80°24'3.1547"W	1974.92	311.555	0.14	0.10	0.10	
8855.00	89.540	341.600	7111.98	1812.09	1400.18	-1507.86	1809757.92	14289862.73	39°20'59.3147"N	80°24'3.5289"W	2057.71	312.879	0.03	-0.03	0.01	
8949.00	89.510	341.330	7112.76	1906.09	1489.30	-1537.74	1809728.05	14289951.81	39°21'0.1975"N	80°24'3.9017"W	2140.72	314.083	0.29	-0.03	-0.29	
9044.00	89.380	341.930	7113.68	2001.08	1579.46	-1567.68	1809698.12	14290041.94	39°21'1.0905"N	80°24'4.2752"W	2225.38	315.214	0.65	-0.14	0.63	
9139.00	89.420	341.350	7114.67	2096.07	1669.62	-1597.60	1809668.21	14290132.06	39°21'1.9835"N	80°24'4.6485"W	2310.83	316.263	0.61	0.04	-0.61	
9233.00	89.480	341.610	7115.58	2190.07	1758.74	-1627.46	1809638.36	14290221.16	39°21'2.8663"N	80°24'5.0210"W	2396.20	317.220	0.28	0.06	0.28	
9328.00	89.750	341.580	7116.22	2285.06	1848.88	-1657.45	1809608.38	14290311.26	39°21'3.7592"N	80°24'5.3952"W	2483.04	318.125	0.29	0.28	-0.03	
9422.00	89.630	341.530	7116.72	2379.06	1938.05	-1687.19	1809578.65	14290400.40	39°21'4.6424"N	80°24'5.7663"W	2569.56	318.958	0.14	-0.13	-0.05	
9517.00	89.660	341.570	7117.31	2474.05	2028.17	-1717.25	1809548.60	14290490.48	39°21'5.5350"N	80°24'6.1414"W	2657.52	319.745	0.05	0.03	0.04	
9706.00	89.850	341.370	7118.12	2663.05	2207.37	-1777.32	1809488.56	14290669.61	39°21'7.3101"N	80°24'6.8909"W	2833.96	321.160	0.15	0.10	-0.11	
9800.00	89.940	341.490	7118.29	2757.05	2296.47	-1807.25	1809458.63	14290758.69	39°21'8.1927"N	80°24'7.2644"W	2922.32	321.798	0.16	0.10	0.13	
9895.00	89.850	341.330	7118.47	2852.05	2386.52	-1837.54	1809428.36	14290848.70	39°21'9.0846"N	80°24'7.6423"W	3011.98	322.405	0.19	-0.09	-0.17	
9990.00	89.540	340.980	7118.97	2947.05	2476.42	-1868.22	1809397.68	14290938.57	39°21'9.9752"N	80°24'8.0254"W	3102.09	322.969	0.49	-0.33	-0.37	
10084.00	91.260	341.330	7118.32	3041.04	2565.38	-1898.59	1809367.33	14291027.49	39°21'10.8564"N	80°24'8.4044"W	3191.52	323.496	1.87	1.83	0.37	
10179.00	90.280	341.100	7117.04	3136.03	2655.31	-1929.17	1809336.76	14291117.39	39°21'11.7472"N	80°24'8.7862"W	3282.13	324.000	1.06	-1.03	-0.24	
10273.00	90.890	341.400	7116.08	3230.02	2744.32	-1959.39	1809306.55	14291206.36	39°21'12.6288"N	80°24'9.1633"W	3372.01	324.474	0.72	0.65	0.32	
10368.00	90.030	341.410	7115.32	3325.02	2834.35	-1989.68	1809276.27	14291296.37	39°21'13.5207"N	80°24'9.5414"W	3463.00	324.932	0.91	-0.91	0.01	
10463.00	89.750	341.430	7115.50	3420.02	2924.40	-2019.95	1809246.02	14291386.38	39°21'14.4127"N	80°24'9.9191"W	3554.20	325.366	0.30	-0.29	0.02	
10557.00	89.540	341.340	7116.08	3514.02	3013.48	-2049.95	1809216.02	14291475.43	39°21'15.2950"N	80°24'10.2936"W	3644.64	325.774	0.24	-0.22	-0.10	
10652.00	89.540	341.350	7116.85	3609.01	3103.49	-2080.34	1809185.65	14291565.40	39°21'16.1866"N	80°24'10.6728"W	3736.23	326.165	0.01	0.00	0.01	

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Atkinson Unit 1H AWP Proj: 22463'
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Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (244 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
10747.00	89.170	341.450	7117.91	3704.00	3193.52	-2110.64	1809155.36	14291655.40	39°21'17.0784"N	80°24'11.0509"W	3827.97	326.539	0.40	-0.39	0.11	
10841.00	89.080	341.550	7119.35	3797.99	3282.65	-2140.46	1809125.55	14291744.50	39°21'17.9613"N	80°24'11.4231"W	3918.85	326.894	0.14	-0.10	0.11	
10936.00	89.320	341.610	7120.68	3892.98	3372.77	-2170.48	1809095.54	14291834.59	39°21'18.8540"N	80°24'11.7976"W	4010.81	327.238	0.26	0.25	0.06	
11125.00	89.290	341.520	7122.97	4081.96	3552.06	-2230.24	1809035.80	14292013.81	39°21'20.6298"N	80°24'12.5433"W	4194.18	327.876	0.05	-0.02	-0.05	
11220.00	89.420	341.440	7124.04	4176.95	3642.14	-2260.41	1809005.64	14292103.85	39°21'21.5220"N	80°24'12.9199"W	4286.56	328.175	0.16	0.14	-0.08	
11315.00	89.260	341.470	7125.13	4271.95	3732.20	-2290.63	1808975.44	14292193.88	39°21'22.4141"N	80°24'13.2969"W	4379.07	328.461	0.17	-0.17	0.03	
11409.00	89.350	341.290	7126.27	4365.94	3821.27	-2320.64	1808945.44	14292282.92	39°21'23.2964"N	80°24'13.6715"W	4470.74	328.730	0.21	0.10	-0.19	
11504.00	89.450	341.740	7127.27	4460.93	3911.36	-2350.76	1808915.33	14292372.98	39°21'24.1888"N	80°24'14.0474"W	4563.42	328.994	0.49	0.11	0.47	
11599.00	89.380	341.760	7128.24	4555.92	4001.58	-2380.51	1808885.59	14292463.17	39°21'25.0824"N	80°24'14.4185"W	4656.12	329.252	0.08	-0.07	0.02	
11693.00	90.030	341.460	7128.72	4649.92	4090.78	-2410.16	1808855.95	14292552.33	39°21'25.9659"N	80°24'14.7885"W	4747.98	329.495	0.76	0.69	-0.32	
11788.00	89.940	341.450	7128.75	4744.92	4180.85	-2440.38	1808825.74	14292642.37	39°21'26.8581"N	80°24'15.1656"W	4840.96	329.728	0.10	-0.09	-0.01	
11883.00	90.120	341.760	7128.70	4839.91	4270.99	-2470.35	1808795.78	14292732.48	39°21'27.7510"N	80°24'15.5397"W	4933.97	329.955	0.38	0.19	0.33	
11977.00	89.940	341.730	7128.65	4933.91	4360.26	-2499.80	1808766.34	14292821.71	39°21'28.6352"N	80°24'15.9071"W	5026.02	330.174	0.19	-0.19	-0.03	
12072.00	90.090	341.820	7128.62	5028.90	4450.50	-2529.51	1808736.64	14292911.92	39°21'29.5289"N	80°24'16.2777"W	5119.11	330.388	0.18	0.16	0.09	
12167.00	89.910	341.310	7128.62	5123.90	4540.62	-2559.55	1808706.61	14293002.01	39°21'30.4216"N	80°24'16.6526"W	5212.34	330.590	0.57	-0.19	-0.54	
12262.00	90.120	341.450	7128.60	5218.90	4630.65	-2589.88	1808676.29	14293092.00	39°21'31.3134"N	80°24'17.0312"W	5305.69	330.782	0.27	0.22	0.15	
12356.00	90.000	341.790	7128.50	5312.90	4719.85	-2619.52	1808646.66	14293181.17	39°21'32.1969"N	80°24'17.4011"W	5398.05	330.970	0.38	-0.13	0.36	
12451.00	89.880	341.210	7128.60	5407.89	4809.94	-2649.67	1808616.53	14293271.23	39°21'33.0893"N	80°24'17.7773"W	5491.47	331.151	0.62	-0.13	-0.61	
12546.00	89.820	341.470	7128.85	5502.89	4899.95	-2680.06	1808586.14	14293361.20	39°21'33.9808"N	80°24'18.1567"W	5585.00	331.323	0.28	-0.06	0.27	
12640.00	89.910	340.650	7129.07	5596.89	4988.86	-2710.57	1808555.65	14293450.08	39°21'34.8615"N	80°24'18.5376"W	5677.67	331.484	0.88	0.10	-0.87	
12735.00	89.970	339.960	7129.17	5691.88	5078.30	-2742.59	1808523.64	14293539.49	39°21'35.7476"N	80°24'18.9377"W	5771.56	331.628	0.73	0.06	-0.73	
12829.00	89.940	340.870	7129.24	5785.87	5166.86	-2774.10	1808492.14	14293628.02	39°21'36.6250"N	80°24'19.3315"W	5864.48	331.769	0.97	-0.03	0.97	
12924.00	89.850	340.910	7129.42	5880.87	5256.63	-2805.20	1808461.05	14293717.75	39°21'37.5142"N	80°24'19.7199"W	5958.29	331.913	0.10	-0.09	0.04	
13019.00	89.880	340.390	7129.64	5975.87	5346.26	-2836.68	1808429.59	14293807.35	39°21'38.4021"N	80°24'20.1131"W	6052.21	332.050	0.55	0.03	-0.55	
13113.00	90.220	340.820	7129.56	6069.86	5434.92	-2867.89	1808398.39	14293895.98	39°21'39.2804"N	80°24'20.5031"W	6145.18	332.180	0.58	0.36	0.46	
13208.00	90.060	340.740	7129.33	6164.86	5524.63	-2899.17	1808367.12	14293985.65	39°21'40.1690"N	80°24'20.8937"W	6239.12	332.311	0.19	-0.17	-0.08	
13303.00	89.850	340.750	7129.40	6259.86	5614.31	-2930.49	1808335.81	14294075.30	39°21'41.0575"N	80°24'21.2851"W	6333.11	332.437	0.22	-0.22	0.01	
13397.00	89.940	340.730	7129.57	6353.85	5703.05	-2961.50	1808304.81	14294164.01	39°21'41.9365"N	80°24'21.6724"W	6426.14	332.558	0.10	0.10	-0.02	
13492.00	90.060	340.710	7129.57	6448.85	5792.72	-2992.87	1808273.46	14294253.65	39°21'42.8248"N	80°24'22.0642"W	6520.19	332.676	0.13	0.13	-0.02	
13587.00	88.980	340.580	7130.37	6543.84	5882.35	-3024.35	1808241.98	14294343.24	39°21'43.7127"N	80°24'22.4576"W	6614.28	332.790	1.15	-1.14	-0.14	

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13682.00	89.910	340.570	7131.29	6638.83	5971.94	-3055.94	1808210.40	14294432.80	39°21'44.6002"N	80°24'22.8523"W	6708.42	332.900	0.98	0.98	-0.01	
13776.00	89.940	340.520	7131.41	6732.83	6060.57	-3087.25	1808179.11	14294521.40	39°21'45.4782"N	80°24'23.2435"W	6801.59	333.006	0.06	0.03	-0.05	
13871.00	89.940	340.480	7131.51	6827.82	6150.12	-3118.96	1808147.41	14294610.91	39°21'46.3653"N	80°24'23.6397"W	6895.79	333.109	0.04	0.00	-0.04	
13965.00	89.910	340.570	7131.63	6921.81	6238.74	-3150.30	1808116.08	14294699.50	39°21'47.2432"N	80°24'24.0313"W	6989.01	333.208	0.10	-0.03	0.10	
14060.00	90.400	340.380	7131.38	7016.81	6328.28	-3182.05	1808084.34	14294789.01	39°21'48.1302"N	80°24'24.4280"W	7083.26	333.305	0.55	0.52	-0.20	
14155.00	90.370	340.500	7130.74	7111.80	6417.80	-3213.86	1808052.55	14294878.49	39°21'49.0170"N	80°24'24.8255"W	7177.53	333.400	0.13	-0.03	0.13	
14250.00	90.430	340.620	7130.08	7206.79	6507.38	-3245.47	1808020.94	14294968.04	39°21'49.9044"N	80°24'25.2205"W	7271.80	333.493	0.14	0.06	0.13	
14344.00	90.430	340.410	7129.37	7300.78	6595.99	-3276.83	1807989.60	14295056.62	39°21'50.7823"N	80°24'25.6123"W	7365.10	333.582	0.22	0.00	-0.22	
14439.00	90.460	340.410	7128.63	7395.77	6685.49	-3308.68	1807957.76	14295146.09	39°21'51.6689"N	80°24'26.0104"W	7459.43	333.669	0.03	0.03	0.00	
14533.00	90.150	340.520	7128.13	7489.76	6774.08	-3340.11	1807926.34	14295234.64	39°21'52.5465"N	80°24'26.4031"W	7552.78	333.753	0.35	-0.33	0.12	
14628.00	90.430	340.840	7127.65	7584.76	6863.73	-3371.54	1807894.92	14295324.26	39°21'53.4345"N	80°24'26.7958"W	7647.09	333.839	0.45	0.29	0.34	
14723.00	90.580	340.970	7126.81	7679.75	6953.50	-3402.62	1807863.86	14295413.99	39°21'54.3238"N	80°24'27.1840"W	7741.38	333.926	0.21	0.16	0.14	
14817.00	90.400	339.950	7126.01	7773.74	7042.08	-3434.06	1807832.43	14295502.54	39°21'55.2013"N	80°24'27.5769"W	7834.77	334.004	1.10	-0.19	-1.09	
14912.00	90.520	340.870	7125.25	7868.73	7131.57	-3465.91	1807800.59	14295592.01	39°21'56.0879"N	80°24'27.9749"W	7929.18	334.080	0.98	0.13	0.97	
15007.00	90.490	340.750	7124.41	7963.72	7221.29	-3497.13	1807769.38	14295681.69	39°21'56.9767"N	80°24'28.3650"W	8023.53	334.160	0.13	-0.03	-0.13	
15101.00	90.520	340.650	7123.58	8057.71	7310.01	-3528.20	1807738.32	14295770.37	39°21'57.8555"N	80°24'28.7531"W	8116.92	334.236	0.11	0.03	-0.11	
15196.00	90.400	340.500	7122.82	8152.71	7399.60	-3559.79	1807706.74	14295859.93	39°21'58.7430"N	80°24'29.1479"W	8211.34	334.309	0.20	-0.13	-0.16	
15292.00	90.990	340.690	7121.65	8248.69	7490.14	-3591.69	1807674.86	14295950.43	39°21'59.6399"N	80°24'29.5464"W	8306.76	334.381	0.65	0.61	0.20	
15386.00	90.950	340.820	7120.06	8342.68	7578.87	-3622.66	1807643.89	14296039.14	39°22'0.5189"N	80°24'29.9334"W	8400.18	334.452	0.14	-0.04	0.14	
15480.00	91.140	341.480	7118.35	8436.66	7667.81	-3653.03	1807613.54	14296128.05	39°22'1.3999"N	80°24'30.3126"W	8493.53	334.526	0.73	0.20	0.70	
15575.00	91.880	340.680	7115.85	8531.63	7757.65	-3683.82	1807582.76	14296217.85	39°22'2.2898"N	80°24'30.6972"W	8587.88	334.599	1.15	0.78	-0.84	
15670.00	91.970	340.870	7112.65	8626.57	7847.30	-3715.09	1807551.50	14296307.47	39°22'3.1778"N	80°24'31.0878"W	8682.28	334.666	0.22	0.09	0.20	
15764.00	91.970	340.730	7109.42	8720.51	7936.02	-3745.98	1807520.62	14296396.15	39°22'4.0567"N	80°24'31.4738"W	8775.69	334.732	0.15	0.00	-0.15	
15859.00	92.030	340.750	7106.11	8815.45	8025.65	-3777.30	1807489.31	14296485.75	39°22'4.9445"N	80°24'31.8650"W	8870.12	334.796	0.07	0.06	0.02	
15954.00	92.000	340.860	7102.77	8910.39	8115.31	-3808.51	1807458.11	14296575.38	39°22'5.8327"N	80°24'32.2550"W	8964.54	334.859	0.12	-0.03	0.12	
16048.00	91.940	340.530	7099.54	9004.34	8203.97	-3839.57	1807427.06	14296664.01	39°22'6.7110"N	80°24'32.6431"W	9058.00	334.920	0.36	-0.06	-0.35	
16143.00	91.970	341.060	7096.29	9099.28	8293.63	-3870.80	1807395.84	14296753.63	39°22'7.5992"N	80°24'33.0333"W	9152.46	334.981	0.56	0.03	0.56	
16238.00	92.000	340.840	7093.00	9194.22	8383.38	-3901.79	1807364.87	14296843.35	39°22'8.4882"N	80°24'33.4204"W	9246.89	335.042	0.23	0.03	-0.23	
16332.00	91.790	340.730	7089.90	9288.17	8472.09	-3932.71	1807333.96	14296932.03	39°22'9.3670"N	80°24'33.8067"W	9340.37	335.099	0.25	-0.22	-0.12	
16427.00	92.680	341.100	7086.19	9383.09	8561.80	-3963.75	1807302.93	14297021.70	39°22'10.2556"N	80°24'34.1944"W	9434.81	335.158	1.01	0.94	0.39	

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Actual Wellpath Report

Atkinson Unit 1H AWP Proj: 22463'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (244 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
16522.00	92.560	340.560	7081.85	9477.99	8651.44	-3994.91	1807271.78	14297111.31	39°22'11.1435"N	80°24'34.5837"W	9529.25	335.214	0.58	-0.13	-0.57	
16616.00	93.050	340.830	7077.25	9571.87	8740.04	-4025.95	1807240.75	14297199.88	39°22'12.0213"N	80°24'34.9716"W	9622.72	335.268	0.60	0.52	0.29	
16711.00	92.560	340.630	7072.60	9666.76	8829.61	-4057.27	1807209.45	14297289.42	39°22'12.9086"N	80°24'35.3628"W	9717.18	335.321	0.56	-0.52	-0.21	
16806.00	93.420	340.740	7067.64	9761.62	8919.14	-4088.64	1807178.08	14297378.92	39°22'13.7954"N	80°24'35.7549"W	9811.63	335.373	0.91	0.91	0.12	
16900.00	93.510	341.070	7061.96	9855.45	9007.81	-4119.34	1807147.40	14297467.55	39°22'14.6737"N	80°24'36.1384"W	9905.03	335.425	0.36	0.10	0.35	
16995.00	93.080	340.700	7056.50	9950.29	9097.42	-4150.40	1807116.35	14297557.13	39°22'15.5614"N	80°24'36.5264"W	9999.44	335.477	0.60	-0.45	-0.39	
17089.00	93.140	340.400	7051.40	10044.15	9185.93	-4181.65	1807085.11	14297645.60	39°22'16.4382"N	80°24'36.9170"W	10092.94	335.524	0.33	0.06	-0.32	
17184.00	94.810	340.820	7044.82	10138.91	9275.32	-4213.11	1807053.66	14297734.96	39°22'17.3237"N	80°24'37.3102"W	10187.34	335.571	1.81	1.76	0.44	
17279.00	94.190	340.950	7037.36	10233.62	9364.81	-4244.13	1807022.66	14297824.41	39°22'18.2101"N	80°24'37.6976"W	10281.64	335.620	0.67	-0.65	0.14	
17373.00	93.260	341.140	7031.26	10327.42	9453.52	-4274.60	1806992.20	14297913.09	39°22'19.0889"N	80°24'38.0782"W	10375.03	335.669	1.01	-0.99	0.20	
17468.00	92.370	340.640	7026.59	10422.30	9543.17	-4305.66	1806961.15	14298002.72	39°22'19.9770"N	80°24'38.4663"W	10469.52	335.716	1.07	-0.94	-0.53	
17562.00	92.280	341.450	7022.78	10516.22	9632.00	-4336.17	1806930.65	14298091.51	39°22'20.8569"N	80°24'38.8474"W	10563.04	335.764	0.87	-0.10	0.86	
17657.00	92.740	342.950	7018.62	10611.11	9722.37	-4365.18	1806901.65	14298181.84	39°22'21.7518"N	80°24'39.2093"W	10657.35	335.821	1.65	0.48	1.58	
17751.00	92.590	342.560	7014.25	10704.97	9812.04	-4393.02	1806873.82	14298271.49	39°22'22.6399"N	80°24'39.5563"W	10750.57	335.881	0.44	-0.16	-0.41	
17846.00	92.650	342.870	7009.90	10799.84	9902.66	-4421.21	1806845.64	14298362.07	39°22'23.5373"N	80°24'39.9079"W	10844.80	335.941	0.33	0.06	0.33	
17941.00	92.490	342.080	7005.64	10894.72	9993.16	-4449.79	1806817.07	14298452.53	39°22'24.4336"N	80°24'40.2642"W	10939.10	335.997	0.85	-0.17	-0.83	
18035.00	92.370	342.950	7001.66	10988.61	10082.73	-4478.01	1806788.86	14298542.08	39°22'25.3207"N	80°24'40.6161"W	11032.41	336.053	0.93	-0.13	0.93	
18129.00	92.190	341.410	6997.92	11082.52	10172.15	-4506.75	1806760.13	14298631.46	39°22'26.2063"N	80°24'40.9747"W	11125.80	336.104	1.65	-0.19	-1.64	
18224.00	92.000	343.160	6994.45	11177.43	10262.58	-4535.64	1806731.25	14298721.86	39°22'27.1020"N	80°24'41.3350"W	11220.19	336.157	1.85	-0.20	1.84	
18318.00	91.690	342.010	6991.42	11271.35	10352.22	-4563.76	1806703.15	14298811.47	39°22'27.9897"N	80°24'41.6856"W	11313.55	336.210	1.27	-0.33	-1.22	
18412.00	91.660	341.690	6988.67	11365.30	10441.51	-4593.03	1806673.89	14298900.72	39°22'28.8741"N	80°24'42.0509"W	11407.06	336.256	0.34	-0.03	-0.34	
18507.00	91.690	341.970	6985.89	11460.26	10531.73	-4622.64	1806644.29	14298990.91	39°22'29.7677"N	80°24'42.4205"W	11501.57	336.302	0.30	0.03	0.29	
18602.00	91.750	341.980	6983.04	11555.20	10622.03	-4652.02	1806614.91	14299081.17	39°22'30.6620"N	80°24'42.7871"W	11596.07	336.349	0.06	0.06	0.01	
18696.00	91.570	341.620	6980.32	11649.16	10711.29	-4681.37	1806585.58	14299170.40	39°22'31.5461"N	80°24'43.1534"W	11689.61	336.392	0.43	-0.19	-0.38	
18791.00	91.570	341.240	6977.72	11744.12	10801.31	-4711.61	1806555.35	14299260.39	39°22'32.4377"N	80°24'43.5311"W	11784.21	336.433	0.40	0.00	-0.40	
18886.00	92.090	343.180	6974.68	11839.05	10891.71	-4740.62	1806526.35	14299350.76	39°22'33.3331"N	80°24'43.8930"W	11878.67	336.479	2.11	0.55	2.04	
18980.00	90.620	341.250	6972.46	11933.00	10981.19	-4769.32	1806497.66	14299440.20	39°22'34.2193"N	80°24'44.2511"W	11972.17	336.524	2.58	-1.56	-2.05	
19075.00	90.830	341.910	6971.26	12027.99	11071.32	-4799.34	1806467.65	14299530.29	39°22'35.1120"N	80°24'44.6258"W	12066.80	336.564	0.73	0.22	0.69	
19170.00	90.800	341.790	6969.91	12122.98	11161.58	-4828.93	1806438.07	14299620.53	39°22'36.0060"N	80°24'44.9951"W	12161.39	336.605	0.13	-0.03	-0.13	
19264.00	90.580	341.600	6968.77	12216.96	11250.82	-4858.45	1806408.56	14299709.73	39°22'36.8899"N	80°24'45.3637"W	12255.01	336.644	0.31	-0.23	-0.20	

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Actual Wellpath Report

Atkinson Unit 1H AWP Proj: 22463'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWP
Slot	Slot D		

WELLPATH DATA (244 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
19359.00	90.090	341.760	6968.22	12311.96	11341.00	-4888.31	1806378.71	14299799.88	39°22'37.7831"N	80°24'45.7364"W	12349.65	336.683	0.54	-0.52	0.17	
19453.00	90.000	341.760	6968.15	12405.95	11430.28	-4917.73	1806349.30	14299889.12	39°22'38.6673"N	80°24'46.1037"W	12443.28	336.721	0.10	-0.10	0.00	
19548.00	89.970	341.850	6968.17	12500.95	11520.53	-4947.39	1806319.65	14299979.34	39°22'39.5612"N	80°24'46.4740"W	12537.91	336.759	0.10	-0.03	0.09	
19643.00	89.970	341.970	6968.22	12595.94	11610.83	-4976.89	1806290.16	14300069.61	39°22'40.4556"N	80°24'46.8422"W	12632.53	336.798	0.13	0.00	0.13	
19737.00	89.910	342.040	6968.32	12689.93	11700.23	-5005.93	1806261.13	14300158.98	39°22'41.3411"N	80°24'47.2046"W	12726.15	336.836	0.10	-0.06	0.07	
19832.00	90.030	341.590	6968.37	12784.92	11790.49	-5035.58	1806231.50	14300249.20	39°22'42.2350"N	80°24'47.5746"W	12820.79	336.873	0.49	0.13	-0.47	
19927.00	90.030	341.740	6968.32	12879.92	11880.66	-5065.46	1806201.62	14300339.34	39°22'43.1282"N	80°24'47.9477"W	12915.46	336.908	0.16	0.00	0.16	
20021.00	89.850	341.880	6968.42	12973.91	11969.97	-5094.81	1806172.29	14300428.61	39°22'44.0127"N	80°24'48.3140"W	13009.12	336.944	0.24	-0.19	0.15	
20115.00	89.970	341.830	6968.56	13067.91	12059.29	-5124.08	1806143.03	14300517.91	39°22'44.8974"N	80°24'48.6794"W	13102.78	336.979	0.14	0.13	-0.05	
20210.00	89.780	341.680	6968.77	13162.90	12149.52	-5153.82	1806113.29	14300608.10	39°22'45.7910"N	80°24'49.0507"W	13197.45	337.013	0.25	-0.20	-0.16	
20305.00	89.850	341.400	6969.08	13257.90	12239.63	-5183.91	1806083.23	14300698.17	39°22'46.6835"N	80°24'49.4263"W	13292.15	337.046	0.30	0.07	-0.29	
20399.00	89.420	340.330	6969.68	13351.89	12328.43	-5214.72	1806052.42	14300786.95	39°22'47.5632"N	80°24'49.8114"W	13385.94	337.072	1.23	-0.46	-1.14	
20494.00	89.140	340.990	6970.87	13446.88	12418.06	-5246.18	1806020.98	14300876.54	39°22'48.4511"N	80°24'50.2046"W	13480.75	337.098	0.75	-0.29	0.69	
20588.00	89.420	340.640	6972.05	13540.87	12506.83	-5277.06	1805990.10	14300965.28	39°22'49.3304"N	80°24'50.5906"W	13574.55	337.123	0.48	0.30	-0.37	
20683.00	88.710	340.840	6973.60	13635.86	12596.50	-5308.40	1805958.78	14301054.92	39°22'50.2187"N	80°24'50.9822"W	13669.34	337.149	0.78	-0.75	0.21	
20778.00	88.770	340.940	6975.69	13730.83	12686.25	-5339.49	1805927.70	14301144.63	39°22'51.1076"N	80°24'51.3707"W	13764.12	337.174	0.12	0.06	0.11	
20872.00	88.800	340.740	6977.69	13824.81	12775.02	-5370.33	1805896.87	14301233.37	39°22'51.9870"N	80°24'51.7562"W	13857.91	337.199	0.22	0.03	-0.21	
20967.00	88.770	340.510	6979.70	13919.78	12864.62	-5401.84	1805865.37	14301322.94	39°22'52.8746"N	80°24'52.1501"W	13952.72	337.223	0.24	-0.03	-0.24	
21061.00	88.770	340.800	6981.72	14013.76	12953.29	-5432.97	1805834.25	14301411.58	39°22'53.7529"N	80°24'52.5392"W	14046.53	337.245	0.31	0.00	0.31	
21156.00	88.280	340.900	6984.16	14108.72	13043.00	-5464.13	1805803.11	14301501.26	39°22'54.6416"N	80°24'52.9285"W	14141.31	337.270	0.53	-0.52	0.11	
21251.00	88.310	340.230	6986.99	14203.68	13132.55	-5495.72	1805771.52	14301590.77	39°22'55.5286"N	80°24'53.3235"W	14236.11	337.292	0.71	0.03	-0.71	
21346.00	88.430	340.660	6989.69	14298.63	13222.04	-5527.51	1805739.75	14301680.22	39°22'56.4151"N	80°24'53.7209"W	14330.93	337.313	0.47	0.13	0.45	
21440.00	88.400	340.770	6992.29	14392.59	13310.73	-5558.54	1805708.73	14301768.88	39°22'57.2936"N	80°24'54.1088"W	14424.73	337.335	0.12	-0.03	0.12	
21535.00	88.370	340.710	6994.97	14487.55	13400.37	-5589.87	1805677.42	14301858.49	39°22'58.1817"N	80°24'54.5003"W	14519.53	337.357	0.07	-0.03	-0.06	
21630.00	88.060	340.810	6997.93	14582.50	13490.02	-5621.15	1805646.14	14301948.11	39°22'59.0697"N	80°24'54.8914"W	14614.31	337.379	0.34	-0.33	0.11	
21724.00	88.280	340.720	7000.93	14676.45	13578.73	-5652.11	1805615.20	14302036.79	39°22'59.9484"N	80°24'55.2783"W	14708.10	337.401	0.25	0.23	-0.10	
21819.00	88.280	340.580	7003.78	14771.41	13668.32	-5683.57	1805583.75	14302126.35	39°23'0.8359"N	80°24'55.6716"W	14802.91	337.421	0.15	0.00	-0.15	
21914.00	88.310	340.970	7006.61	14866.36	13757.99	-5714.84	1805552.49	14302215.98	39°23'1.7241"N	80°24'56.0624"W	14897.70	337.443	0.41	0.03	0.41	
22008.00	88.280	340.500	7009.40	14960.32	13846.68	-5745.84	1805521.50	14302304.64	39°23'2.6027"N	80°24'56.4499"W	14991.51	337.463	0.50	-0.03	-0.50	
22198.00	88.310	340.510	7015.06	15150.22	14025.71	-5809.22	1805458.14	14302483.60	39°23'4.3762"N	80°24'57.2423"W	15181.16	337.501	0.02	0.02	0.01	



Actual Wellpath Report

Atkinson Unit 1H AWP Proj: 22463'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (244 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
22293.00	88.460	341.280	7017.74	15245.18	14115.44	-5840.30	1805427.07	14302573.30	39°23'5.2650"N	80°24'57.6307"W	15275.96	337.523	0.83	0.16	0.81	
22387.00	88.340	341.310	7020.36	15339.14	14204.44	-5870.43	1805396.95	14302662.27	39°23'6.1465"N	80°24'58.0072"W	15369.72	337.546	0.13	-0.13	0.03	
22438.00	88.430	341.080	7021.80	15390.12	14252.70	-5886.86	1805380.53	14302710.51	39°23'6.6245"N	80°24'58.2125"W	15420.59	337.558	0.48	0.18	-0.45	
22463.00‡	88.430	341.080	7022.48	15415.12	14276.34	-5894.97	1805372.42	14302734.14	39°23'6.8587"N	80°24'58.3137"W	15445.54	337.563	0.00	0.00	0.00	Projected MD at TD: 22463'

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 7.05				Reference: IADC/SPE 59196			
Values	Wellpath characterized as:			Values	Wellpath characterized as:		
< 6.0	Relatively short or simple profiles with low tortuosity			6.4-6.8	Longer with relatively tortuous well paths		
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity			> 6.8	Long tortuous profiles, high degree of difficulty		

HOLE & CASING SECTIONS - Ref Wellbore: Atkinson Unit 1H AWB Ref Wellpath: Atkinson Unit 1H AWP Proj: 22463'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.50	125.50	100.00	25.50	125.50	0.00	0.00	0.72	0.15
17 1/2in Open Hole	125.50	526.00	400.50	125.50	525.98	0.72	0.15	2.72	1.94
13 3/8in Casing Surface	25.50	501.00	475.50	25.50	500.98	0.00	0.00	2.76	1.83
12 1/4in Open Hole	526.00	3570.00	3044.00	525.98	3534.99	2.72	1.94	-204.37	-384.92
9 5/8in Casing Intermediate	25.50	3540.00	3514.50	25.50	3505.33	0.00	0.00	-201.76	-381.27
8 3/4in Open Hole	3570.00	6507.00	2937.00	3534.99	6432.93	-204.37	-384.92	-416.29	-809.47
8 1/2in Open Hole	6507.00	22463.00	15956.00	6432.93	7022.48	-416.29	-809.47	14276.34	-5894.97
5 1/2in Casing Production	25.50	22443.00	22417.50	25.50	7021.93	0.00	0.00	14257.43	-5888.49

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Atkinson Unit 1H POE Rev-2	7010.00	-99.37	-995.37	1810270.22	14288363.73	39°20'44.4604"N	80°23'57.1322"W	point
Atkinson Unit 1H POE Rev-1	7019.50	-99.37	-995.37	1810270.22	14288363.73	39°20'44.4604"N	80°23'57.1322"W	point
Atkinson Unit 1H BHL Rev-1	7044.50	14311.82	-5911.55	1805355.85	14302769.60	39°23'7.2104"N	80°24'58.5220"W	point
Atkinson Unit 1H POE Rev-3	7045.00	-99.37	-995.37	1810270.22	14288363.73	39°20'44.4604"N	80°23'57.1322"W	point
Atkinson Unit 1H BHL Rev-2	7060.00	14311.82	-5911.55	1805355.85	14302769.60	39°23'7.2104"N	80°24'58.5220"W	point
Atkinson Unit 1H LP Rev-2	7060.00	134.70	-1075.22	1810190.40	14288597.71	39°20'46.7790"N	80°23'58.1288"W	point
Atkinson Unit 1H BHL Rev-3	7107.00	14311.82	-5911.55	1805355.85	14302769.60	39°23'7.2104"N	80°24'58.5220"W	point
Atkinson Unit 1H LP Rev-3	7107.00	159.99	-1083.84	1810181.77	14288623.00	39°20'47.0296"N	80°23'58.2365"W	point

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Atkinson Unit 1H AWP Proj: 22463'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Atkinson Unit 1H 50' L/R Hard Line	7500.00	7106.20	-3453.50	1807812.99	14295566.64	39°21'55.8364"N	80°24'27.8191"W	rectangle
2D Rectangle: 15226.6 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Atkinson Unit 1H AWB Ref Wellpath: Atkinson Unit 1H AWP Proj: 22463'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	552.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-552')	Atkinson Unit 1H AWB	2025-11-16
552.00	3494.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02_APS EM <12-1/4"> (552')(594'-3494')	Atkinson Unit 1H AWB	2025-11-16
3494.00	6433.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <8-3/4"> (3494')(3590'-6433')	Atkinson Unit 1H AWB	2025-12-16
6433.00	22463.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04_BH Lucida <8-1/2"> (6433')(6480'-22438')	Atkinson Unit 1H AWB	2025-12-16

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Atkinson Unit 1H AWP Proj: 22463'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Atkinson Unit 1H
Field	Harrison	UWI	47-033-06118-0000
Facility	Flanigan Pad	Wellbore	Atkinson Unit 1H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-033-06118-0000
BH Job #: 112874829
Rig: H&P 317
Duration: 12/18/2025-12/22/2025
Gyrodata MS Gyro <17-1/2"> (100'-552')
APS EM <12-1/4"> (552')(594'-3494')
APS EM <8-3/4"> (3494')(3590'-6433')
BH Lucida <8-1/2"> (6433')(6480'-22438')
Sycamore: 6442' MD
Middlesex: 6700' MD
Burkett: 6891' MD
Tully: 6924' MD
Marcellus POE: 7249' MD
Projected MD at TD: 22463'

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