



# ANTERO RESOURCES CORPORATION

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

Slot: Slot A  
Well: Arrow Unit 1H  
Wellbore: Arrow Unit 1H PWB



Plot reference wellpath is Arrow Unit 1H PWP Rev-B.0	Grid System: NAD83 / 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: 1285.5 feet	Coordinates are in feet referenced to Skt
Mean Sea Level to Ground level (At Slot: Skt A): -1200 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edharyar on 2025-01-22; Database: WA_MPL_EASTERNUS_Data

Scale 1 inch = 2000  
Easting (ft) -4000 -3000 -2000 -1000 0 1000 2000 3000

Scale 1 inch = 1000  
True Vertical Depth (ft) -750 0 750 1500 2250 3000 3750 4500 5250 6000 6750 7500

Northing (ft) 1000 0 -1000 -2000 -3000 -4000 -5000 -6000 -7000 -8000 -9000 -10000

Gyrodata MS Gyro <17-1/2"> (100'-473') : 100.00ft TVD, 0.10ft N, 0.41ft W  
APS EM <12-1/4"> (473')(602'-3516') : 601.97ft TVD, 1.18ft N, 3.98ft W  
APS EM <8-3/4"> (3516')(3607'-6246') : 3554.99ft TVD, 188.32ft N, 515.86ft W  
BH Lucida <8-1/2"> (6246')(6353'-16058') : 6248.79ft TVD, 369.42ft N, 1013.11ft W

Marcellus POE: 7414.17' MD : 7036.19ft TVD, 191.84ft S, 926.69ft W



Gyrodata MS Gyro <17-1/2"> (100'-473') : 0.65° Inc, 100.00ft MD, 100.00ft TVD, -0.22ft VS

APS EM <12-1/4"> (473')(602'-3516') : 1.95° Inc, 602.00ft MD, 601.97ft TVD, -2.32ft VS

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Lincoln Pad	1713678.390	14351001.770	39°31'8.3286"N	80°44'24.7890"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot A	0.00	0.00	1713678.390	14351001.770	39°31'8.3286"N
Comment	Arrow Unit 1H				
H&P 317 (RKB) to Ground level (At Slot: Slot A)					25.5ft
Mean Sea Level to Ground level (At Slot: Slot A)					-1260ft
H&P 317 (RKB) to Mean Sea Level					1285.5ft

API: 47-103-03675-0000  
BH Job #: 112482499  
Rig: H&P 317  
Duration: 12/25/2024-12/27/2024

APS EM <8-3/4"> (3516')(3607'-6246') : 9.47° Inc, 3607.00ft MD, 3554.99ft TVD, -334.88ft VS

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	3516.00	10.340	290.080	3465.35	183.13	-501.10	0.63
Proj. to Bottom	3591.00	10.340	290.080	3539.13	187.75	-513.74	0.00
Drill Out	3671.00	10.340	290.080	3617.83	192.68	-527.23	0.00
Adj. Inc / Azi	3701.59	11.236	289.010	3647.88	194.60	-532.62	3.00
Curve KOP	6371.45	11.236	289.010	6266.57	364.05	-1024.45	0.00
POE	7384.01	73.923	161.009	7036.00	-152.95	-945.85	8.00
Landing Pt.	7581.22	89.700	161.009	7064.00	-336.94	-882.53	8.00
Hold	10074.25	89.700	161.009	7077.05	-2694.24	-71.25	0.50
Turn	10368.57	89.700	162.480	7078.59	-2973.73	20.94	0.50
BHL	16079.53	89.700	162.480	7108.50	-8419.70	1740.12	0.00

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	Arrow Unit 1H	Arrow Unit 1H AWB	Arrow Unit 1H AWP Proj: 16090'
Slot A	Arrow Unit 1H	Arrow Unit 1H PWB	Arrow Unit 1H PWP Rev-B.0

BH Lucida <8-1/2"> (6246')(6353'-16058') : 10.51° Inc, 6353.00ft MD, 6248.79ft TVD, -657.27ft VS

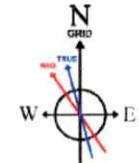
Marcellus POE: 7414.17' MD : 75.54° Inc, 7414.17ft MD, 7036.19ft TVD, -96.03ft VS

Projected MD at TD: 16090' : 89.85° Inc, 16090.00ft MD, 7107.24ft TVD, 8575.37ft VS

Vertical Section (ft) -1500 -750 0 750 1500 2250 3000 3750 4500 5250 6000 6750 7500 8250 9000 9750  
Scale 1 inch = 1500

Azimuth 162.48° with reference 0.00 N, 0.00 E

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User specified (HDGM) Dip: 66.23° Field: 51495 nT  
Magnetic North is 7.77 degrees West of True North (at 12/23/2024)  
Grid North is 0.17 degrees East of True North  
To correct azimuth from True to Grid subtract 0.17 degrees  
To correct azimuth from Magnetic to Grid subtract 7.94 degrees



# Actual Wellpath Report

Arrow Unit 1H AWP Proj: 16090'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

## REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999606	Report Generated	1/22/2025 at 3:21:44 PM
Convergence at slot	0.17° 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	0.00	0.00	1713678.39	14351001.77	39°31'8.3286"N	80°44'24.7890"W
Facility Reference Pt			1713678.39	14351001.77	39°31'8.3286"N	80°44'24.7890"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	1285.50ft
Horizontal Reference Pt	Slot	H&P 317 (RKB) to Mean Sea Level	1285.50ft
Vertical Reference Pt	H&P 317 (RKB)	H&P 317 (RKB) to Ground Level at Slot (Slot A)	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	162.48°

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## WELLPATH DATA (178 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	284.320	0.00	0.00	0.00	0.00	1713678.39	14351001.77	39°31'8.3286"N	80°44'24.7890"W	0.00	0.000	0.00	0.00	0.00	
25.50	0.000	284.320	25.50	0.00	0.00	0.00	1713678.39	14351001.77	39°31'8.3286"N	80°44'24.7890"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.650	284.320	100.00	-0.22	0.10	-0.41	1713677.98	14351001.87	39°31'8.3296"N	80°44'24.7942"W	0.42	284.320	0.87	0.87	0.00	Gyrodata MS Gyro <17-1/2"> (100'-473')
200.00	0.280	289.630	199.99	-0.67	0.33	-1.19	1713677.20	14351002.10	39°31'8.3318"N	80°44'24.8042"W	1.23	285.371	0.37	-0.37	5.31	
300.00	0.210	295.030	299.99	-0.94	0.49	-1.59	1713676.81	14351002.26	39°31'8.3334"N	80°44'24.8092"W	1.66	287.060	0.07	-0.07	5.40	
400.00	0.150	288.820	399.99	-1.14	0.61	-1.88	1713676.52	14351002.38	39°31'8.3346"N	80°44'24.8129"W	1.97	287.916	0.06	-0.06	-6.21	
473.00	0.090	59.400	472.99	-1.21	0.67	-1.92	1713676.47	14351002.44	39°31'8.3352"N	80°44'24.8134"W	2.03	289.171	0.30	-0.08	178.88	
602.00	1.950	282.150	601.97	-2.32	1.18	-3.98	1713674.42	14351002.95	39°31'8.3403"N	80°44'24.8397"W	4.15	286.532	1.56	1.44	-106.40	APS EM <12-1/4"> (473')(602'-3516')
693.00	3.370	293.150	692.87	-4.83	2.56	-7.95	1713670.45	14351004.33	39°31'8.3541"N	80°44'24.8903"W	8.35	287.836	1.65	1.56	12.09	
788.00	5.940	297.710	787.55	-10.14	5.94	-14.87	1713663.53	14351007.71	39°31'8.3877"N	80°44'24.9785"W	16.01	291.781	2.73	2.71	4.80	
881.00	10.400	301.480	879.58	-19.90	12.57	-26.29	1713652.11	14351014.33	39°31'8.4535"N	80°44'25.1241"W	29.14	295.544	4.83	4.80	4.05	
972.00	11.380	299.460	968.94	-32.66	21.27	-41.12	1713637.29	14351023.03	39°31'8.5400"N	80°44'25.3129"W	46.29	297.354	1.16	1.08	-2.22	
1063.00	11.890	297.500	1058.07	-45.86	30.01	-57.25	1713621.16	14351031.77	39°31'8.6269"N	80°44'25.5184"W	64.64	297.668	0.71	0.56	-2.15	
1157.00	13.220	289.170	1149.83	-59.13	38.02	-75.99	1713602.43	14351039.77	39°31'8.7065"N	80°44'25.7573"W	84.97	296.577	2.39	1.41	-8.86	
1252.00	13.480	285.420	1242.27	-71.64	44.53	-96.93	1713581.50	14351046.28	39°31'8.7714"N	80°44'26.0242"W	106.67	294.674	0.95	0.27	-3.95	
1345.00	12.470	282.040	1332.89	-82.49	49.50	-117.20	1713561.24	14351051.26	39°31'8.8212"N	80°44'26.2826"W	127.22	292.900	1.36	-1.09	-3.63	
1440.00	10.820	285.730	1425.93	-92.44	54.06	-135.81	1713542.63	14351055.81	39°31'8.8668"N	80°44'26.5200"W	146.18	291.706	1.90	-1.74	3.88	
1534.00	10.030	286.050	1518.38	-101.80	58.72	-152.17	1713526.28	14351060.46	39°31'8.9132"N	80°44'26.7286"W	163.11	291.100	0.84	-0.84	0.34	
1628.00	10.000	290.150	1610.95	-111.32	63.79	-167.70	1713510.76	14351065.54	39°31'8.9638"N	80°44'26.9266"W	179.42	290.826	0.76	-0.03	4.36	
1722.00	10.850	292.940	1703.40	-122.05	70.05	-183.51	1713494.95	14351071.79	39°31'9.0261"N	80°44'27.1281"W	196.43	290.893	1.05	0.90	2.97	
1816.00	11.280	290.840	1795.65	-133.49	76.77	-200.25	1713478.22	14351078.51	39°31'9.0930"N	80°44'27.3414"W	214.46	290.976	0.63	0.46	-2.23	
1910.00	10.930	287.480	1887.89	-144.31	82.72	-217.34	1713461.13	14351084.46	39°31'9.1523"N	80°44'27.5593"W	232.55	290.836	0.78	-0.37	-3.57	
2005.00	11.550	291.320	1981.07	-155.44	88.88	-234.79	1713443.69	14351090.62	39°31'9.2137"N	80°44'27.7817"W	251.05	290.734	1.02	0.65	4.04	
2099.00	11.600	289.310	2073.16	-167.01	95.43	-252.48	1713426.01	14351097.16	39°31'9.2789"N	80°44'28.0072"W	269.91	290.705	0.43	0.05	-2.14	
2194.00	11.420	288.260	2166.25	-178.23	101.53	-270.42	1713408.07	14351103.26	39°31'9.3398"N	80°44'28.2359"W	288.86	290.579	0.29	-0.19	-1.11	
2288.00	11.390	287.200	2258.39	-188.96	107.19	-288.13	1713390.38	14351108.92	39°31'9.3962"N	80°44'28.4616"W	307.42	290.407	0.23	-0.03	-1.13	
2382.00	11.340	286.400	2350.55	-199.40	112.55	-305.86	1713372.65	14351114.27	39°31'9.4496"N	80°44'28.6877"W	325.91	290.202	0.18	-0.05	-0.85	
2476.00	10.710	285.430	2442.81	-209.31	117.48	-323.15	1713355.37	14351119.20	39°31'9.4989"N	80°44'28.9081"W	343.84	289.979	0.70	-0.67	-1.03	
2570.00	10.600	290.550	2535.20	-219.39	122.84	-339.66	1713338.86	14351124.56	39°31'9.5523"N	80°44'29.1186"W	361.19	289.883	1.01	-0.12	5.45	
2665.00	10.670	291.940	2628.56	-230.37	129.19	-356.00	1713322.53	14351130.91	39°31'9.6156"N	80°44'29.3269"W	378.72	289.946	0.28	0.07	1.46	

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Arrow Unit 1H AWP Proj: 16090'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

### WELLPATH DATA (178 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
2759.00	10.550	290.820	2720.96	-241.24	135.50	-372.12	1713306.42	14351137.22	39°31'9.6784"N	80°44'29.5323"W	396.02	290.009	0.25	-0.13	-1.19	
2854.00	10.100	289.240	2814.42	-251.62	141.34	-388.11	1713290.43	14351143.05	39°31'9.7365"N	80°44'29.7362"W	413.05	290.010	0.56	-0.47	-1.66	
2949.00	10.910	290.110	2907.83	-262.09	147.18	-404.42	1713274.13	14351148.89	39°31'9.7947"N	80°44'29.9440"W	430.36	289.997	0.87	0.85	0.92	
3044.00	10.810	290.680	3001.12	-273.09	153.41	-421.19	1713257.36	14351155.12	39°31'9.8568"N	80°44'30.1579"W	448.26	290.013	0.15	-0.11	0.60	
3138.00	10.290	288.530	3093.53	-283.48	159.19	-437.40	1713241.16	14351160.90	39°31'9.9144"N	80°44'30.3645"W	465.47	289.999	0.69	-0.55	-2.29	
3232.00	9.870	287.390	3186.08	-293.04	164.27	-453.05	1713225.52	14351165.98	39°31'9.9650"N	80°44'30.5640"W	481.91	289.930	0.49	-0.45	-1.21	
3327.00	10.580	292.930	3279.58	-303.35	170.10	-468.85	1713209.72	14351171.80	39°31'10.0231"N	80°44'30.7654"W	498.76	289.941	1.28	0.75	5.83	
3421.00	10.750	292.480	3371.95	-314.59	176.82	-484.90	1713193.68	14351178.52	39°31'10.0899"N	80°44'30.9700"W	516.13	290.034	0.20	0.18	-0.48	
3516.00	10.340	290.080	3465.35	-325.48	183.13	-501.10	1713177.49	14351184.83	39°31'10.1527"N	80°44'31.1764"W	533.51	290.075	0.63	-0.43	-2.53	
3607.00	9.470	288.550	3554.99	-334.88	188.32	-515.86	1713162.73	14351190.01	39°31'10.2044"N	80°44'31.3646"W	549.16	290.055	1.00	-0.96	-1.68	APS EM <8-3/4"> (3516')(3607'-6246')
3701.00	10.400	293.320	3647.58	-344.98	194.14	-530.99	1713147.61	14351195.83	39°31'10.2624"N	80°44'31.5574"W	565.36	290.083	1.32	0.99	5.07	
3795.00	11.950	293.150	3739.80	-356.87	201.32	-547.73	1713130.88	14351203.01	39°31'10.3338"N	80°44'31.7707"W	583.55	290.181	1.65	1.65	-0.18	
3889.00	12.350	291.230	3831.69	-369.50	208.79	-566.05	1713112.57	14351210.47	39°31'10.4081"N	80°44'32.0042"W	603.32	290.247	0.60	0.43	-2.04	
3983.00	12.110	288.930	3923.56	-381.65	215.63	-584.74	1713093.88	14351217.31	39°31'10.4763"N	80°44'32.2425"W	623.23	290.242	0.58	-0.26	-2.45	
4077.00	13.560	290.230	4015.21	-394.26	222.64	-604.41	1713074.22	14351224.32	39°31'10.5461"N	80°44'32.4933"W	644.11	290.221	1.57	1.54	1.38	
4172.00	13.440	287.270	4107.58	-407.38	229.76	-625.40	1713053.23	14351231.44	39°31'10.6172"N	80°44'32.7609"W	666.27	290.173	0.74	-0.13	-3.12	
4266.00	12.770	284.260	4199.14	-419.08	235.57	-645.90	1713032.74	14351237.24	39°31'10.6751"N	80°44'33.0223"W	687.52	290.037	1.02	-0.71	-3.20	
4360.00	10.880	290.660	4291.14	-430.04	241.26	-664.28	1713014.38	14351242.93	39°31'10.7318"N	80°44'33.2565"W	706.73	289.960	2.44	-2.01	6.81	
4455.00	9.690	288.770	4384.61	-440.31	246.99	-680.24	1712998.42	14351248.66	39°31'10.7890"N	80°44'33.4599"W	723.69	289.956	1.30	-1.25	-1.99	
4549.00	10.280	289.790	4477.19	-450.08	252.38	-695.62	1712983.05	14351254.05	39°31'10.8426"N	80°44'33.6560"W	739.99	289.941	0.66	0.63	1.09	
4644.00	11.690	296.400	4570.45	-461.89	259.53	-712.22	1712966.46	14351261.19	39°31'10.9138"N	80°44'33.8675"W	758.03	290.021	1.99	1.48	6.96	
4738.00	11.150	293.970	4662.59	-474.52	267.45	-729.05	1712949.63	14351269.12	39°31'10.9926"N	80°44'34.0821"W	776.56	290.146	0.77	-0.57	-2.59	
4832.00	10.350	289.500	4754.94	-485.63	273.97	-745.32	1712933.37	14351275.63	39°31'11.0574"N	80°44'34.2894"W	794.07	290.183	1.23	-0.85	-4.76	
4926.00	9.270	285.280	4847.57	-494.81	278.78	-760.58	1712918.11	14351280.44	39°31'11.1054"N	80°44'34.4840"W	810.06	290.130	1.38	-1.15	-4.49	
5021.00	10.420	285.920	4941.17	-503.69	283.15	-776.22	1712902.47	14351284.81	39°31'11.1491"N	80°44'34.6834"W	826.26	290.041	1.22	1.21	0.67	
5115.00	11.610	291.370	5033.44	-514.31	288.93	-793.21	1712885.50	14351290.59	39°31'11.2067"N	80°44'34.8999"W	844.19	290.014	1.68	1.27	5.80	
5209.00	11.370	288.750	5125.55	-525.73	295.36	-810.79	1712867.92	14351297.01	39°31'11.2707"N	80°44'35.1241"W	862.91	290.016	0.61	-0.26	-2.79	
5303.00	11.830	290.240	5217.63	-537.12	301.67	-828.60	1712850.11	14351303.32	39°31'11.3335"N	80°44'35.3512"W	881.81	290.005	0.58	0.49	1.59	
5397.00	12.480	292.090	5309.52	-549.49	308.82	-847.06	1712831.67	14351310.47	39°31'11.4048"N	80°44'35.5864"W	901.60	290.031	0.81	0.69	1.97	
5491.00	12.120	289.000	5401.37	-561.84	315.85	-865.80	1712812.93	14351317.50	39°31'11.4748"N	80°44'35.8252"W	921.61	290.043	0.80	-0.38	-3.29	

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# Actual Wellpath Report

Arrow Unit 1H AWP Proj: 16090'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

## WELLPATH DATA (178 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
5586.00	11.150	285.780	5494.42	-572.82	321.60	-884.07	1712794.67	14351323.24	39°31'11.5321"N	80°44'36.0582"W	940.75	289.990	1.23	-1.02	-3.39	
5680.00	11.570	287.660	5586.57	-583.24	326.93	-901.80	1712776.95	14351328.57	39°31'11.5853"N	80°44'36.2842"W	959.23	289.927	0.60	0.45	2.00	
5774.00	11.830	294.330	5678.63	-595.10	333.76	-919.56	1712759.19	14351335.40	39°31'11.6533"N	80°44'36.5106"W	978.26	289.949	1.46	0.28	7.10	
5868.00	11.190	291.730	5770.73	-607.30	341.11	-936.81	1712741.95	14351342.74	39°31'11.7264"N	80°44'36.7305"W	996.98	290.007	0.88	-0.68	-2.77	
5963.00	10.140	286.920	5864.09	-617.86	346.95	-953.38	1712725.39	14351348.59	39°31'11.7846"N	80°44'36.9416"W	1014.55	289.997	1.45	-1.11	-5.06	
6057.00	9.730	290.340	5956.69	-627.42	352.12	-968.74	1712710.03	14351353.75	39°31'11.8361"N	80°44'37.1375"W	1030.75	289.975	0.76	-0.44	3.64	
6152.00	9.480	295.040	6050.36	-637.64	358.22	-983.36	1712695.42	14351359.85	39°31'11.8969"N	80°44'37.3238"W	1046.57	290.016	0.87	-0.26	4.95	
6246.00	8.320	295.660	6143.22	-647.53	364.45	-996.50	1712682.28	14351366.07	39°31'11.9587"N	80°44'37.4913"W	1061.05	290.089	1.24	-1.23	0.66	
6353.00	10.510	279.550	6248.79	-657.27	369.42	-1013.11	1712665.68	14351371.04	39°31'12.0083"N	80°44'37.7030"W	1078.36	290.034	3.18	2.05	-15.06	BH Lucida <8-1/2"> (6246')(6353'-16058')
6448.00	10.960	240.690	6342.25	-659.37	366.43	-1029.55	1712649.25	14351368.06	39°31'11.9793"N	80°44'37.9129"W	1092.81	289.591	7.49	0.47	-40.91	
6542.00	12.860	206.940	6434.33	-650.06	352.71	-1042.10	1712636.71	14351354.34	39°31'11.8441"N	80°44'38.0735"W	1100.17	288.699	7.56	2.02	-35.90	
6636.00	16.810	183.300	6525.26	-629.87	329.79	-1047.62	1712631.18	14351331.43	39°31'11.6176"N	80°44'38.1449"W	1098.31	287.474	7.61	4.20	-25.15	
6730.00	23.140	177.990	6613.57	-599.33	297.73	-1047.76	1712631.05	14351299.38	39°31'11.3007"N	80°44'38.1478"W	1089.24	285.863	7.00	6.73	-5.65	
6825.00	30.340	169.840	6698.38	-557.48	255.38	-1042.86	1712635.94	14351257.05	39°31'10.8821"N	80°44'38.0869"W	1073.68	283.760	8.49	7.58	-8.58	
6826.00†	30.409	169.798	6699.25	-556.98	254.89	-1042.77	1712636.03	14351256.55	39°31'10.8772"N	80°44'38.0857"W	1073.47	283.735	7.17	6.85	-4.19	Sycamore: 6826' MD
6919.00	36.830	166.520	6776.66	-505.77	204.56	-1032.10	1712646.70	14351206.25	39°31'10.3795"N	80°44'37.9513"W	1052.17	281.211	7.17	6.90	-3.52	
6982.00†	42.580	166.577	6825.10	-465.64	165.43	-1022.74	1712656.06	14351167.14	39°31'9.9925"N	80°44'37.8333"W	1036.03	279.188	9.13	9.13	0.09	Middlesex: 6982' MD
7013.00	45.410	166.600	6847.40	-444.17	144.49	-1017.74	1712661.05	14351146.20	39°31'9.7854"N	80°44'37.7704"W	1027.95	278.080	9.13	9.13	0.08	
7107.00	53.370	165.870	6908.54	-373.01	75.24	-1000.75	1712678.03	14351076.98	39°31'9.1005"N	80°44'37.5560"W	1003.58	274.300	8.49	8.47	-0.78	
7140.00†	56.129	165.851	6927.58	-346.12	49.11	-994.17	1712684.61	14351050.86	39°31'8.8421"N	80°44'37.4730"W	995.38	272.828	8.36	8.36	-0.06	Burkett: 7140' MD
7201.00	61.230	165.820	6959.28	-294.11	-1.40	-981.42	1712697.36	14351000.37	39°31'8.3425"N	80°44'37.3122"W	981.42	269.918	8.36	8.36	-0.05	
7207.00†	61.686	165.775	6962.15	-288.85	-6.51	-980.13	1712698.65	14350995.26	39°31'8.2920"N	80°44'37.2959"W	980.15	269.619	7.63	7.60	-0.75	Tully: 7207' MD
7296.00	68.450	165.150	6999.64	-208.30	-84.58	-959.87	1712718.90	14350917.22	39°31'7.5198"N	80°44'37.0402"W	963.59	264.964	7.63	7.60	-0.70	
7390.00	74.060	161.350	7029.85	-119.35	-169.75	-934.19	1712744.57	14350832.08	39°31'6.6773"N	80°44'36.7156"W	949.48	259.701	7.09	5.97	-4.04	
7414.17†	75.541	161.146	7036.19	-96.03	-191.84	-926.69	1712752.07	14350810.01	39°31'6.4588"N	80°44'36.6207"W	946.34	258.304	6.18	6.13	-0.84	Marcellus POE: 7414.17' MD
7484.00	79.820	160.570	7051.08	-27.85	-256.27	-904.32	1712774.43	14350745.60	39°31'5.8214"N	80°44'36.3376"W	939.93	254.178	6.18	6.13	-0.82	
7578.00	88.060	160.270	7061.00	65.48	-344.27	-873.02	1712805.72	14350657.64	39°31'4.9508"N	80°44'35.9414"W	938.45	248.479	8.77	8.77	-0.32	
7672.00	89.690	159.940	7062.84	159.38	-432.64	-841.04	1712837.68	14350569.31	39°31'4.0766"N	80°44'35.5366"W	945.79	242.778	1.77	1.73	-0.35	
7766.00	89.690	159.640	7063.35	253.28	-520.85	-808.57	1712870.14	14350481.13	39°31'3.2038"N	80°44'35.1254"W	961.80	237.212	0.32	0.00	-0.32	
7860.00	90.090	161.210	7063.53	347.21	-609.41	-777.07	1712901.62	14350392.60	39°31'2.3276"N	80°44'34.7268"W	987.53	231.895	1.72	0.43	1.67	

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Arrow Unit 1H AWP Proj: 16090'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

### WELLPATH DATA (178 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
7955.00	90.120	160.730	7063.36	442.18	-699.22	-746.10	1712932.59	14350302.83	39°31'1.4392"N	80°44'34.3348"W	1022.53	226.858	0.51	0.03	-0.51	
8049.00	90.460	160.440	7062.88	536.13	-787.87	-714.85	1712963.82	14350214.21	39°31'0.5621"N	80°44'33.9394"W	1063.84	222.218	0.48	0.36	-0.31	
8143.00	89.660	160.630	7062.78	630.07	-876.50	-683.53	1712995.13	14350125.62	39°30'59.6853"N	80°44'33.5429"W	1111.51	217.949	0.87	-0.85	0.20	
8237.00	89.630	161.320	7063.37	724.04	-965.36	-652.89	1713025.76	14350036.79	39°30'58.8062"N	80°44'33.1552"W	1165.41	214.071	0.73	-0.03	0.73	
8331.00	89.720	161.130	7063.90	818.01	-1054.36	-622.63	1713056.00	14349947.83	39°30'57.9257"N	80°44'32.7724"W	1224.48	210.563	0.22	0.10	-0.20	
8425.00	89.350	160.620	7064.66	911.97	-1143.17	-591.84	1713086.79	14349859.06	39°30'57.0471"N	80°44'32.3827"W	1287.28	207.371	0.67	-0.39	-0.54	
8519.00	89.380	160.610	7065.70	1005.92	-1231.83	-560.64	1713117.97	14349770.43	39°30'56.1699"N	80°44'31.9879"W	1353.41	204.472	0.03	0.03	-0.01	
8614.00	89.320	161.550	7066.78	1100.88	-1321.69	-529.84	1713148.76	14349680.60	39°30'55.2810"N	80°44'31.5981"W	1423.94	201.845	0.99	-0.06	0.99	
8708.00	89.630	162.040	7067.64	1194.87	-1410.98	-500.47	1713178.12	14349591.34	39°30'54.3976"N	80°44'31.2267"W	1497.11	199.529	0.62	0.33	0.52	
8802.00	89.600	160.750	7068.27	1288.85	-1500.07	-470.48	1713208.09	14349502.30	39°30'53.5163"N	80°44'30.8473"W	1572.12	197.414	1.37	-0.03	-1.37	
8897.00	89.380	158.980	7069.12	1383.74	-1589.25	-437.78	1713240.78	14349413.14	39°30'52.6340"N	80°44'30.4334"W	1648.45	195.401	1.88	-0.23	-1.86	
8991.00	89.940	159.890	7069.68	1477.61	-1677.26	-404.77	1713273.78	14349325.17	39°30'51.7632"N	80°44'30.0153"W	1725.41	193.568	1.14	0.60	0.97	
9085.00	89.820	161.750	7069.88	1571.56	-1766.04	-373.88	1713304.65	14349236.43	39°30'50.8849"N	80°44'29.6245"W	1805.18	191.953	1.98	-0.13	1.98	
9179.00	90.520	161.960	7069.60	1665.56	-1855.36	-344.61	1713333.92	14349147.14	39°30'50.0013"N	80°44'29.2543"W	1887.10	190.522	0.78	0.74	0.22	
9274.00	89.050	160.860	7069.95	1760.53	-1945.40	-314.33	1713364.19	14349057.14	39°30'49.1105"N	80°44'28.8712"W	1970.63	189.178	1.93	-1.55	-1.16	
9368.00	89.200	160.410	7071.39	1854.47	-2034.07	-283.16	1713395.34	14348968.50	39°30'48.2333"N	80°44'28.4768"W	2053.69	187.925	0.50	0.16	-0.48	
9462.00	89.380	161.000	7072.55	1948.42	-2122.79	-252.10	1713426.39	14348879.82	39°30'47.3556"N	80°44'28.0838"W	2137.70	186.773	0.66	0.19	0.63	
9556.00	89.050	160.670	7073.84	2042.37	-2211.57	-221.25	1713457.23	14348791.08	39°30'46.4773"N	80°44'27.6933"W	2222.61	185.713	0.50	-0.35	-0.35	
9651.00	89.480	161.770	7075.06	2137.34	-2301.50	-190.67	1713487.80	14348701.18	39°30'45.5876"N	80°44'27.3064"W	2309.39	184.736	1.24	0.45	1.16	
9745.00	89.750	163.870	7075.69	2231.33	-2391.30	-162.90	1713515.55	14348611.42	39°30'44.6993"N	80°44'26.9555"W	2396.84	183.897	2.25	0.29	2.23	
9839.00	89.350	160.400	7076.43	2325.31	-2480.75	-134.07	1713544.37	14348522.00	39°30'43.8144"N	80°44'26.5909"W	2484.37	183.094	3.72	-0.43	-3.69	
9933.00	89.630	160.220	7077.27	2419.24	-2569.25	-102.40	1713576.03	14348433.54	39°30'42.9388"N	80°44'26.1901"W	2571.29	182.282	0.35	0.30	-0.19	
10027.00	89.600	160.520	7077.90	2513.18	-2657.79	-70.82	1713607.59	14348345.04	39°30'42.0629"N	80°44'25.7905"W	2658.73	181.526	0.32	-0.03	0.32	
10121.00	88.860	161.810	7079.16	2607.14	-2746.74	-40.48	1713637.93	14348256.12	39°30'41.1829"N	80°44'25.4066"W	2747.04	180.844	1.58	-0.79	1.37	
10215.00	89.140	162.180	7080.80	2701.12	-2836.13	-11.43	1713666.96	14348166.77	39°30'40.2986"N	80°44'25.0392"W	2836.15	180.231	0.49	0.30	0.39	
10309.00	89.540	162.710	7081.88	2795.12	-2925.74	16.92	1713695.30	14348077.19	39°30'39.4121"N	80°44'24.6808"W	2925.79	179.669	0.71	0.43	0.56	
10403.00	90.120	163.580	7082.16	2889.11	-3015.70	44.18	1713722.55	14347987.26	39°30'38.5223"N	80°44'24.3364"W	3016.02	179.161	1.11	0.62	0.93	
10498.00	89.350	162.340	7082.60	2984.10	-3106.53	72.01	1713750.37	14347896.47	39°30'37.6238"N	80°44'23.9846"W	3107.36	178.672	1.54	-0.81	-1.31	
10592.00	89.690	163.040	7083.39	3078.10	-3196.27	99.98	1713778.33	14347806.77	39°30'36.7361"N	80°44'23.6310"W	3197.83	178.208	0.83	0.36	0.74	
10686.00	89.200	162.530	7084.30	3172.09	-3286.05	127.80	1713806.14	14347717.02	39°30'35.8479"N	80°44'23.2794"W	3288.53	177.773	0.75	-0.52	-0.54	

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Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (178 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
10780.00	89.350	163.680	7085.49	3266.07	-3375.98	155.11	1713833.44	14347627.12	39°30'34.9583"N	80°44'22.9342"W	3379.55	177.369	1.23	0.16	1.22	
10874.00	89.140	162.810	7086.73	3360.06	-3465.98	182.21	1713860.53	14347537.16	39°30'34.0680"N	80°44'22.5919"W	3470.77	176.991	0.95	-0.22	-0.93	
10969.00	89.320	162.930	7088.01	3455.05	-3556.76	210.19	1713888.50	14347446.42	39°30'33.1700"N	80°44'22.2382"W	3562.97	176.618	0.23	0.19	0.13	
11064.00	89.020	161.500	7089.38	3550.03	-3647.21	239.20	1713917.50	14347356.00	39°30'32.2753"N	80°44'21.8714"W	3655.05	176.248	1.54	-0.32	-1.51	
11158.00	89.510	161.460	7090.59	3644.01	-3736.33	269.06	1713947.34	14347266.91	39°30'31.3936"N	80°44'21.4938"W	3746.01	175.881	0.52	0.52	-0.04	
11252.00	89.630	161.100	7091.29	3737.99	-3825.36	299.23	1713977.50	14347177.92	39°30'30.5129"N	80°44'21.1122"W	3837.04	175.527	0.40	0.13	-0.38	
11347.00	89.690	162.630	7091.86	3832.98	-3915.64	328.79	1714007.05	14347087.68	39°30'29.6198"N	80°44'20.7383"W	3929.42	175.200	1.61	0.06	1.61	
11441.00	89.420	161.520	7092.59	3926.97	-4005.07	357.72	1714035.97	14346998.29	39°30'28.7351"N	80°44'20.3725"W	4021.01	174.896	1.22	-0.29	-1.18	
11535.00	89.630	162.560	7093.37	4020.96	-4094.48	386.71	1714064.94	14346908.91	39°30'27.8505"N	80°44'20.0061"W	4112.71	174.605	1.13	0.22	1.11	
11629.00	89.510	162.980	7094.07	4114.96	-4184.26	414.55	1714092.78	14346819.16	39°30'26.9624"N	80°44'19.6542"W	4204.75	174.342	0.46	-0.13	0.45	
11723.00	89.510	160.960	7094.88	4208.95	-4273.64	443.64	1714121.86	14346729.82	39°30'26.0782"N	80°44'19.2863"W	4296.60	174.073	2.15	0.00	-2.15	
11818.00	89.820	162.740	7095.43	4303.94	-4363.91	473.23	1714151.44	14346639.59	39°30'25.1852"N	80°44'18.9121"W	4389.49	173.811	1.90	0.33	1.87	
11912.00	90.550	163.630	7095.13	4397.93	-4453.89	500.42	1714178.62	14346549.65	39°30'24.2952"N	80°44'18.5685"W	4481.91	173.589	1.22	0.78	0.95	
12006.00	89.380	162.110	7095.19	4491.92	-4543.71	528.11	1714206.29	14346459.86	39°30'23.4066"N	80°44'18.2187"W	4574.30	173.370	2.04	-1.24	-1.62	
12101.00	89.510	163.010	7096.11	4586.91	-4634.34	556.58	1714234.75	14346369.26	39°30'22.5101"N	80°44'17.8588"W	4667.64	173.152	0.96	0.14	0.95	
12195.00	89.690	161.710	7096.76	4680.91	-4723.92	585.06	1714263.22	14346279.72	39°30'21.6240"N	80°44'17.4987"W	4760.01	172.940	1.40	0.19	-1.38	
12289.00	89.850	162.740	7097.14	4774.91	-4813.43	613.76	1714291.91	14346190.25	39°30'20.7385"N	80°44'17.1360"W	4852.40	172.733	1.11	0.17	1.10	
12383.00	89.820	162.380	7097.41	4868.91	-4903.10	641.93	1714320.07	14346100.61	39°30'19.8513"N	80°44'16.7799"W	4944.95	172.541	0.38	-0.03	-0.38	
12478.00	89.540	162.150	7097.94	4963.90	-4993.59	670.87	1714349.00	14346010.16	39°30'18.9562"N	80°44'16.4140"W	5038.45	172.348	0.38	-0.29	-0.24	
12572.00	89.690	162.100	7098.57	5057.90	-5083.05	699.72	1714377.84	14345920.73	39°30'18.0712"N	80°44'16.0493"W	5130.98	172.162	0.17	0.16	-0.05	
12666.00	89.780	161.430	7099.01	5151.89	-5172.33	729.14	1714407.24	14345831.49	39°30'17.1880"N	80°44'15.6774"W	5223.47	171.976	0.72	0.10	-0.71	
12761.00	89.170	160.730	7099.88	5246.86	-5262.19	759.94	1714438.03	14345741.66	39°30'16.2990"N	80°44'15.2877"W	5316.78	171.782	0.98	-0.64	-0.74	
12855.00	89.780	162.250	7100.74	5340.84	-5351.32	789.78	1714467.86	14345652.57	39°30'15.4172"N	80°44'14.9104"W	5409.29	171.605	1.74	0.65	1.62	
12949.00	88.890	162.150	7101.83	5434.83	-5440.81	818.51	1714496.58	14345563.11	39°30'14.5319"N	80°44'14.5471"W	5502.04	171.445	0.95	-0.95	-0.11	
13043.00	89.780	163.070	7102.92	5528.82	-5530.51	846.60	1714524.66	14345473.45	39°30'13.6446"N	80°44'14.1921"W	5594.93	171.297	1.36	0.95	0.98	
13137.00	89.570	161.930	7103.45	5622.82	-5620.16	874.87	1714552.91	14345383.84	39°30'12.7578"N	80°44'13.8348"W	5687.84	171.152	1.23	-0.22	-1.21	
13231.00	89.660	161.940	7104.09	5716.81	-5709.52	904.02	1714582.05	14345294.51	39°30'11.8738"N	80°44'13.4663"W	5780.65	171.003	0.10	0.10	0.01	
13325.00	89.720	160.320	7104.59	5810.78	-5798.46	934.42	1714612.44	14345205.60	39°30'10.9938"N	80°44'13.0818"W	5873.27	170.846	1.72	0.06	-1.72	
13419.00	89.820	161.900	7104.97	5904.75	-5887.40	964.85	1714642.86	14345116.70	39°30'10.1140"N	80°44'12.6969"W	5965.93	170.693	1.68	0.11	1.68	
13514.00	89.780	163.340	7105.30	5999.75	-5978.06	993.22	1714671.22	14345026.08	39°30'9.2171"N	80°44'12.3383"W	6060.00	170.567	1.52	-0.04	1.52	

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# Actual Wellpath Report

Arrow Unit 1H AWP Proj: 16090'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (178 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	
13608.00	89.850	164.220	7105.61	6093.72	-6068.31	1019.48	1714697.47	14344935.86	39°30'8.3243"N	80°44'12.0067"W	6153.35	170.463	0.94	0.07	0.94		
13703.00	89.720	160.710	7105.96	6188.70	-6158.88	1048.10	1714726.07	14344845.32	39°30'7.4284"N	80°44'11.6450"W	6247.43	170.342	3.70	-0.14	-3.69		
13797.00	89.750	163.340	7106.40	6282.69	-6248.29	1077.10	1714755.07	14344755.96	39°30'6.5439"N	80°44'11.2783"W	6340.45	170.219	2.80	0.03	2.80		
13891.00	89.690	163.430	7106.86	6376.68	-6338.36	1103.98	1714781.93	14344665.92	39°30'5.6529"N	80°44'10.9388"W	6433.79	170.120	0.12	-0.06	0.10		
13985.00	90.580	164.180	7106.64	6470.65	-6428.63	1130.20	1714808.14	14344575.68	39°30'4.7600"N	80°44'10.6077"W	6527.22	170.029	1.24	0.95	0.80		
14079.00	89.630	163.360	7106.46	6564.63	-6518.88	1156.47	1714834.40	14344485.47	39°30'3.8673"N	80°44'10.2759"W	6620.67	169.940	1.34	-1.01	-0.87		
14173.00	90.340	163.390	7106.49	6658.61	-6608.95	1183.36	1714861.29	14344395.43	39°30'2.9763"N	80°44'9.9362"W	6714.06	169.848	0.76	0.76	0.03		
14268.00	90.340	163.270	7105.92	6753.60	-6699.96	1210.62	1714888.53	14344304.46	39°30'2.0761"N	80°44'9.5920"W	6808.45	169.758	0.13	0.00	-0.13		
14362.00	90.310	163.590	7105.39	6847.59	-6790.05	1237.42	1714915.32	14344214.41	39°30'1.1849"N	80°44'9.2534"W	6901.89	169.672	0.34	-0.03	0.34		
14456.00	90.250	162.660	7104.93	6941.58	-6880.00	1264.71	1714942.60	14344124.49	39°30'0.2951"N	80°44'8.9087"W	6995.28	169.584	0.99	-0.06	-0.99		
14550.00	90.180	163.580	7104.58	7035.57	-6969.95	1292.00	1714969.88	14344034.58	39°29'59.4053"N	80°44'8.5638"W	7088.69	169.498	0.98	-0.07	0.98		
14644.00	90.890	164.510	7103.70	7129.53	-7060.32	1317.84	1714995.71	14343944.24	39°29'58.5113"N	80°44'8.2376"W	7182.26	169.427	1.24	0.76	0.99		
14738.00	90.280	162.910	7102.74	7223.50	-7150.54	1344.20	1715022.06	14343854.06	39°29'57.6189"N	80°44'7.9047"W	7275.79	169.353	1.82	-0.65	-1.70		
14833.00	89.850	160.110	7102.63	7318.48	-7240.63	1374.33	1715052.18	14343764.01	39°29'56.7277"N	80°44'7.5238"W	7369.91	169.253	2.98	-0.45	-2.95		
14927.00	89.820	163.460	7102.90	7412.46	-7329.91	1403.71	1715081.54	14343674.77	39°29'55.8445"N	80°44'7.1523"W	7463.10	169.159	3.56	-0.03	3.56		
15021.00	89.630	162.760	7103.36	7506.45	-7419.85	1431.02	1715108.84	14343584.86	39°29'54.9548"N	80°44'6.8073"W	7556.59	169.084	0.77	-0.20	-0.74		
15115.00	89.850	163.140	7103.78	7600.44	-7509.72	1458.58	1715136.39	14343495.03	39°29'54.0658"N	80°44'6.4591"W	7650.05	169.009	0.47	0.23	0.40		
15209.00	89.880	163.940	7104.00	7694.43	-7599.86	1485.21	1715163.02	14343404.91	39°29'53.1740"N	80°44'6.1228"W	7743.63	168.942	0.85	0.03	0.85		
15304.00	89.820	162.620	7104.25	7789.42	-7690.85	1512.54	1715190.34	14343313.97	39°29'52.2741"N	80°44'5.7775"W	7838.17	168.874	1.39	-0.06	-1.39		
15399.00	89.820	162.890	7104.55	7884.41	-7781.57	1540.71	1715218.49	14343223.28	39°29'51.3765"N	80°44'5.4217"W	7932.63	168.801	0.28	0.00	0.28		
15493.00	89.690	162.790	7104.95	7978.41	-7871.39	1568.44	1715246.21	14343133.50	39°29'50.4881"N	80°44'5.0713"W	8026.13	168.731	0.17	-0.14	-0.11		
15587.00	89.880	163.390	7105.31	8072.41	-7961.32	1595.78	1715273.54	14343043.60	39°29'49.5984"N	80°44'4.7259"W	8119.68	168.666	0.67	0.20	0.64		
15681.00	89.780	162.920	7105.58	8166.40	-8051.29	1623.02	1715300.77	14342953.67	39°29'48.7085"N	80°44'4.3818"W	8213.25	168.603	0.51	-0.11	-0.50		
15775.00	89.820	162.940	7105.91	8260.39	-8141.15	1650.61	1715328.35	14342863.84	39°29'47.8196"N	80°44'4.0332"W	8306.79	168.539	0.05	0.04	0.02		
15870.00	89.660	162.950	7106.34	8355.39	-8231.97	1678.48	1715356.20	14342773.06	39°29'46.9211"N	80°44'3.6812"W	8401.35	168.476	0.17	-0.17	0.01		
15964.00	89.750	163.110	7106.83	8449.38	-8321.88	1705.91	1715383.63	14342683.19	39°29'46.0318"N	80°44'3.3346"W	8494.92	168.415	0.20	0.10	0.17		
16058.00	89.850	163.350	7107.16	8543.38	-8411.88	1733.03	1715410.74	14342593.22	39°29'45.1415"N	80°44'2.9920"W	8588.54	168.359	0.28	0.11	0.26		
16090.00†	89.850	163.350	7107.24	8575.37	-8442.53	1742.20	1715419.90	14342562.58	39°29'44.8382"N	80°44'2.8762"W	8620.42	168.340	0.00	0.00	0.00	Projected MD at TD: 16090'	

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# Actual Wellpath Report

Arrow Unit 1H AWP Proj: 16090'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

### DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = 6.77		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: Arrow Unit 1H AWB Ref Wellpath: Arrow Unit 1H AWP Proj: 16090'

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	0.17	-0.67
17.5in Open Hole	125.50	495.00	369.50	125.50	494.99	0.17	-0.67	0.70	-1.95
13.375in Casing Surface	25.50	475.00	449.50	25.50	474.99	0.00	0.00	0.67	-1.91
12.25in Open Hole	495.00	3591.00	3096.00	494.99	3539.21	0.70	-1.95	187.47	-513.35
9.625in Casing Intermediate	25.50	3561.00	3535.50	25.50	3509.65	0.00	0.00	185.80	-508.54
8.75in Open Hole	3591.00	6319.00	2728.00	3539.21	6215.32	187.47	-513.35	368.21	-1007.26
8.5in Open Hole	6319.00	16090.00	9771.00	6215.32	7107.24	368.21	-1007.26	-8442.53	1742.20
5.5in Casing Production	25.50	16070.00	16044.50	25.50	7107.19	0.00	0.00	-8423.37	1736.47

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# Actual Wellpath Report

Arrow Unit 1H AWP Proj: 16090'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

### TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Arrow Unit 1H POE Rev-3	7036.00	-152.95	-945.85	1712732.91	14350848.88	39°31'6.8437"N	80°44'36.8638"W	point
Arrow Unit 1H LP Rev-3	7064.00	-336.94	-882.53	1712796.21	14350664.96	39°31'5.0235"N	80°44'36.0625"W	point
Arrow Unit 1H AZI Rev-3	7077.05	-2694.24	-71.25	1713607.17	14348308.60	39°30'41.7027"N	80°44'25.7972"W	point
Arrow Unit 1H BHL Rev-3	7108.50	-8419.70	1740.12	1715417.82	14342585.40	39°29'45.0639"N	80°44'2.9020"W	point
Arrow Unit 1H 50' L/R Hard Line1	7500.00	-1423.59	-508.55	1713170.04	14349578.74	39°30'54.2732"N	80°44'31.3302"W	rectangle
	2D Rectangle 2687.57 x 100.							
Arrow Unit 1H 50' L/R Hard Line2	7500.00	-5696.72	880.53	1714558.57	14345307.31	39°30'12.0009"N	80°44'13.7654"W	rectangle
	2D Rectangle 5710.88 x 100.							

### WELLPATH COMPOSITION - Ref Wellbore: Arrow Unit 1H AWB Ref Wellpath: Arrow Unit 1H AWP Proj: 16090'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.50	473.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-473')	Arrow Unit 1H AWB	11/14/2024
473.00	3516.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (473')(602'-3516')	Arrow Unit 1H AWB	11/14/2024
3516.00	6246.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3516')(3607'-6246')	Arrow Unit 1H AWB	12/23/2024
6246.00	16090.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH Lucida <8-1/2"> (6246')(6353'-16058')	Arrow Unit 1H AWB	12/23/2024

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Arrow Unit 1H AWP Proj: 16090'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Arrow Unit 1H
Field	Wetzel	API	47-103-03675-0000
Facility	Lincoln Pad	Wellbore	Arrow Unit 1H AWB
Slot	Slot A		

## COMMENTS

### Wellpath general comments

API: 47-103-03675-0000

BH Job #: 112482499

Rig: H&P 317

Duration: 12/25/2024-12/27/2024

Gyrodatta MS Gyro <17-1/2"> (100'-473')

APS EM <12-1/4"> (473')(602'-3516')

APS EM <8-3/4"> (3516')(3607'-6246')

BH Lucida <8-1/2"> (6246')(6353'-16058')

Sycamore: 6826' MD

Middlesex: 6982' MD

Burkett: 7140' MD

Tully: 7207' MD

Marcellus POE: 7414.17' MD

Projected MD at TD: 16090'

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