ANTERO RESOURCES CORPORATION

Area: Wetzel County, WV
Field: Wetzel
Facility: Harbour Pad
Slot: Slot D

Well: Lodge Unit 1H
UWI: 47-103-03790-0000
Wellbore: Lodge Unit 1H PWB
Wellpath: Lodge Unit 1H PWP Rev-B.0

Plot reference wellpath is Lodge 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: 1440 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot D): -1410 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2026-02-07; Database: WA_MPL_EASTERNUS_Defn

Scale 1 inch = 2000

Easting (ft)

-4000 -3000 -2000 -1000 0 1000 2000 3000 4000

Gyrodata MS Gyro <17-1/2"> (100'-400') : 100.00ft TVD, 0.16ft N, 0.06ft E
Gyrodata MS Gyro <12-1/4"> (400')(500'-560') : 500.00ft TVD, 0.45ft N, 0.22ft E
APS EM <12-1/4"> (560')(594'-3615') : 594.00ft TVD, 0.30ft N, 0.40ft E
APS EM <8-3/4"> (3615')(3685'-6432') : 3681.05ft TVD, 109.36ft N, 25.45ft W
BH Lucida <8-1/2"> (6432')(6463'-18589') : 6413.36ft TVD, 374.17ft N, 431.40ft W

Slot D

Marcellus POE: 7623' MD : 7320.15ft TVD, 156.86ft S, 361.95ft W

POE : 56

Scale 1 inch = 1499.99

True Vertical Depth (ft)

-750 0 750 1500 2250 3000 3750 4500 5250 6000 6750 7500

Gyrodata MS Gyro <17-1/2"> (100'-400') : 0.28° Inc, 100.00ft MD, 100.00ft TVD, -0.13ft VS

Gyrodata MS Gyro <12-1/4"> (400')(500'-560') : 0.16° Inc, 500.00ft MD, 500.00ft TVD, -0.36ft VS
APS EM <12-1/4"> (560')(594'-3615') : 0.07° Inc, 594.00ft MD, 594.00ft TVD, -0.16ft VS

API: 47-103-03790-0000
BH Job #: 112930784
Rig: H&P 519
Duration: 1/16/2026-1/23/2026

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Harbour Pad			1724986.450	14383874.430	39°36'32.9960N	80°41'59.0388W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot D	-7.08	-44.44	1724942.030	14383867.350	39°36'32.9275N	80°41'59.6068W
Comment	Lodge Unit 1H					
H&P 519 (RKB) to Ground level (At Slot: Slot D)					30ft	
Mean Sea Level to Ground level (At Slot: Slot D)					-1410ft	
H&P 519 (RKB) to Mean Sea Level					1440ft	

APS EM <8-3/4"> (3615')(3685'-6432') : 0.37° Inc, 3685.00ft MD, 3681.05ft TVD, -111.70ft VS

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	30.00	0.000	345.000	30.00	0.00	0.00	0.00	0.00
Start Nudge	730.00	0.000	345.000	730.00	0.00	0.00	0.00	0.00
Nudge	980.00	5.000	345.000	979.68	10.53	-2.82	2.00	-10.88
Hold	1880.00	5.000	345.000	1876.26	86.30	-23.12	0.00	-89.13
Drop	2130.00	0.000	301.199	2125.94	96.83	-25.94	2.00	-100.01
KOP 1	3729.06	0.000	301.199	3725.00	96.83	-25.94	0.00	-100.01
End of Build	4298.43	11.387	301.199	4290.63	126.04	-74.18	2.00	-143.30
Curve KOP	6582.45	11.387	301.199	6529.68	359.64	-459.93	0.00	-489.45
POE	7624.41	74.514	161.061	7325.00	-156.35	-368.17	8.00	28.39
Landing Pt	7817.98	90.000	161.061	7351.00	-337.22	-306.11	8.00	219.61
BHL	18690.40	90.000	161.061	7351.00	-10621.04	3222.71	0.00	11092.03

Well Data

Slot	Well	Wellbore	Wellpath
Slot D	Lodge Unit 1H	Lodge Unit 1H AWB	Lodge Unit 1H AWP Proj: 18614'
Slot D	Lodge Unit 1H	Lodge Unit 1H PWB	Lodge Unit 1H PWP Rev-B.0

BH Lucida <8-1/2"> (6432')(6463'-18589') : 11.35° Inc, 6463.00ft MD, 6413.36ft TVD, -493.93ft VS

Marcellus POE: 7623' MD : 74.06° Inc, 7623.00ft MD, 7320.15ft TVD, 30.89ft VS

N GRID
W E
MAG FNUB

User specified (HDGM) Dip: 66.13° Field: 51391.3 nT
Magnetic North is 8.06 degrees West of True North (at 2025-12-31)
Grid North is 0.19 degrees East of True North
To correct azimuth from True to Grid subtract 0.19 degrees
To correct azimuth from Magnetic to Grid subtract 8.25 degrees

Lodge Unit 1H 50' L/R Hard Line

Projected MD at TD: 18614' : 7332.90ft TVD, 10551.53ft S, 3197.25ft E

BHL : 126'

Projected MD at TD: 18614' : 89.11° Inc, 18614.00ft MD, 7332.90ft TVD, 11018.02ft VS

Northing (ft)

1000 0 -1000 -2000 -3000 -4000 -5000 -6000 -7000 -8000 -9000 -10000 -11000

-750 0 750 1500 2250 3000 3750 4500 5250 6000 6750 7500 8250 9000 9750 10500 11250 12000 12750

Vertical Section (ft)
Azimuth 161.060° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500

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Actual Wellpath Report

Lodge Unit 1H AWP Proj: 18614'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge 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 2026-02-07 at 12:23:22 AM
Scale	0.999608	Last Updated	2026-02-06
Convergence at slot	0.19° 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	-7.08	-44.44	1724942.03	14383867.35	39°36'32.9275"N	80°41'59.6068"W
Facility Reference Pt			1724986.45	14383874.43	39°36'32.9960"N	80°41'59.0388"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	1440.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1440.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot D)	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	161.060°

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Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (208 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	21.830	0.00	0.00	0.00	0.00	1724942.03	14383867.35	39°36'32.9275"N	80°41'59.6068"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	21.830	30.00	0.00	0.00	0.00	1724942.03	14383867.35	39°36'32.9275"N	80°41'59.6068"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.280	21.830	100.00	-0.13	0.16	0.06	1724942.09	14383867.51	39°36'32.9291"N	80°41'59.6060"W	0.17	21.830	0.40	0.40	0.00	Gyrodata MS Gyro <17-1/2"> (100'-400')
200.00	0.280	340.410	200.00	-0.56	0.62	0.07	1724942.10	14383867.97	39°36'32.9336"N	80°41'59.6059"W	0.62	6.718	0.20	0.00	-41.42	
300.00	0.090	209.630	300.00	-0.75	0.78	-0.05	1724941.98	14383868.13	39°36'32.9352"N	80°41'59.6074"W	0.78	356.452	0.35	-0.19	-130.78	
400.00	0.150	133.900	400.00	-0.58	0.62	0.01	1724942.04	14383867.97	39°36'32.9336"N	80°41'59.6067"W	0.62	0.673	0.15	0.06	-75.73	
500.00	0.160	123.600	500.00	-0.36	0.45	0.22	1724942.25	14383867.80	39°36'32.9319"N	80°41'59.6040"W	0.50	25.803	0.03	0.01	-10.30	Gyrodata MS Gyro <12-1/4"> (400')(500'-560')
560.00	0.170	140.480	560.00	-0.21	0.34	0.34	1724942.37	14383867.69	39°36'32.9308"N	80°41'59.6024"W	0.48	45.731	0.08	0.02	28.13	
594.00	0.070	70.130	594.00	-0.16	0.30	0.40	1724942.43	14383867.65	39°36'32.9305"N	80°41'59.6018"W	0.50	52.502	0.47	-0.29	-206.91	APS EM <12-1/4"> (560')(594'-3615')
684.00	0.760	352.000	683.99	-0.75	0.91	0.36	1724942.39	14383868.26	39°36'32.9365"N	80°41'59.6021"W	0.98	21.755	0.83	0.77	-86.81	
773.00	2.370	345.410	772.96	-3.16	3.28	-0.18	1724941.85	14383870.63	39°36'32.9599"N	80°41'59.6090"W	3.28	356.838	1.82	1.81	-7.40	
863.00	4.030	340.600	862.82	-8.18	8.06	-1.70	1724940.33	14383875.41	39°36'33.0072"N	80°41'59.6282"W	8.24	348.091	1.87	1.84	-5.34	
953.00	5.190	339.440	952.52	-15.41	14.86	-4.18	1724937.85	14383882.20	39°36'33.0745"N	80°41'59.6596"W	15.43	344.285	1.29	1.29	-1.29	
1043.00	5.440	338.200	1042.14	-23.74	22.63	-7.19	1724934.84	14383889.97	39°36'33.1514"N	80°41'59.6978"W	23.75	342.364	0.31	0.28	-1.38	
1137.00	5.420	335.860	1135.71	-32.61	30.82	-10.66	1724931.37	14383898.16	39°36'33.2324"N	80°41'59.7418"W	32.61	340.912	0.24	-0.02	-2.49	
1232.00	5.310	336.200	1230.30	-41.46	38.93	-14.27	1724927.76	14383906.27	39°36'33.3128"N	80°41'59.7875"W	41.47	339.867	0.12	-0.12	0.36	
1326.00	5.000	348.610	1323.92	-49.85	46.93	-16.84	1724925.20	14383914.26	39°36'33.3919"N	80°41'59.8200"W	49.86	340.263	1.23	-0.33	13.20	
1421.00	4.730	347.840	1418.58	-57.85	54.82	-18.48	1724923.56	14383922.15	39°36'33.4699"N	80°41'59.8406"W	57.85	341.370	0.29	-0.28	-0.81	
1515.00	4.880	344.190	1512.25	-65.69	62.45	-20.39	1724921.65	14383929.78	39°36'33.5454"N	80°41'59.8646"W	65.70	341.922	0.36	0.16	-3.88	
1610.00	4.700	338.950	1606.92	-73.61	69.97	-22.89	1724919.15	14383937.30	39°36'33.6198"N	80°41'59.8962"W	73.62	341.890	0.50	-0.19	-5.52	
1704.00	4.470	336.560	1700.62	-81.11	76.93	-25.73	1724916.31	14383944.25	39°36'33.6886"N	80°41'59.9322"W	81.12	341.510	0.32	-0.24	-2.54	
1799.00	3.160	328.930	1795.40	-87.36	82.57	-28.55	1724913.49	14383949.89	39°36'33.7445"N	80°41'59.9681"W	87.36	340.926	1.48	-1.38	-8.03	
1893.00	2.770	325.030	1889.28	-92.08	86.65	-31.19	1724910.85	14383953.96	39°36'33.7849"N	80°42'0.0016"W	92.09	340.204	0.47	-0.41	-4.15	
1988.00	1.650	345.010	1984.21	-95.65	89.85	-32.86	1724909.18	14383957.17	39°36'33.8166"N	80°42'0.0228"W	95.67	339.913	1.41	-1.18	21.03	
2082.00	1.420	353.400	2078.17	-98.14	92.32	-33.34	1724908.70	14383959.63	39°36'33.8409"N	80°42'0.0289"W	98.15	340.142	0.34	-0.24	8.93	
2177.00	0.910	27.280	2173.15	-99.81	94.16	-33.13	1724908.91	14383961.47	39°36'33.8591"N	80°42'0.0261"W	99.81	340.614	0.88	-0.54	35.66	
2272.00	0.770	35.040	2268.14	-100.71	95.35	-32.42	1724909.62	14383962.66	39°36'33.8709"N	80°42'0.0170"W	100.71	341.222	0.19	-0.15	8.17	
2366.00	0.670	36.730	2362.14	-101.39	96.31	-31.73	1724910.31	14383963.62	39°36'33.8803"N	80°42'0.0081"W	101.40	341.766	0.11	-0.11	1.80	
2461.00	0.780	39.670	2457.13	-102.04	97.25	-30.98	1724911.06	14383964.56	39°36'33.8896"N	80°41'59.9985"W	102.07	342.328	0.12	0.12	3.09	
2555.00	0.730	36.330	2551.12	-102.71	98.22	-30.22	1724911.82	14383965.54	39°36'33.8992"N	80°41'59.9888"W	102.77	342.899	0.07	-0.05	-3.55	

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Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

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
2650.00	0.780	32.420	2646.11	-103.46	99.26	-29.51	1724912.53	14383966.57	39°36'33.9094"N	80°41'59.9797"W	103.55	343.440	0.08	0.05	-4.12	
2745.00	0.650	36.180	2741.11	-104.17	100.24	-28.85	1724913.19	14383967.55	39°36'33.9191"N	80°41'59.9712"W	104.31	343.944	0.15	-0.14	3.96	
2839.00	0.670	29.760	2835.10	-104.84	101.15	-28.26	1724913.78	14383968.46	39°36'33.9281"N	80°41'59.9636"W	105.02	344.388	0.08	0.02	-6.83	
2934.00	0.650	22.400	2930.09	-105.61	102.13	-27.78	1724914.26	14383969.44	39°36'33.9377"N	80°41'59.9574"W	105.84	344.782	0.09	-0.02	-7.75	
3028.00	0.770	15.030	3024.09	-106.54	103.23	-27.41	1724914.63	14383970.54	39°36'33.9486"N	80°41'59.9527"W	106.81	345.127	0.16	0.13	-7.84	
3123.00	0.700	15.530	3119.08	-107.55	104.40	-27.09	1724914.95	14383971.71	39°36'33.9602"N	80°41'59.9485"W	107.86	345.452	0.07	-0.07	0.53	
3218.00	0.620	11.670	3214.07	-108.47	105.47	-26.83	1724915.21	14383972.78	39°36'33.9707"N	80°41'59.9452"W	108.83	345.725	0.10	-0.08	-4.06	
3312.00	0.540	27.910	3308.07	-109.21	106.36	-26.52	1724915.52	14383973.66	39°36'33.9795"N	80°41'59.9412"W	109.61	345.997	0.19	-0.09	17.28	
3407.00	0.450	24.060	3403.06	-109.79	107.09	-26.16	1724915.88	14383974.40	39°36'33.9868"N	80°41'59.9365"W	110.24	346.272	0.10	-0.09	-4.05	
3501.00	0.520	22.980	3497.06	-110.37	107.82	-25.85	1724916.20	14383975.13	39°36'33.9940"N	80°41'59.9324"W	110.88	346.521	0.08	0.07	-1.15	
3596.00	0.600	11.620	3592.06	-111.12	108.71	-25.58	1724916.46	14383976.01	39°36'34.0027"N	80°41'59.9290"W	111.67	346.760	0.14	0.08	-11.96	
3615.00	0.440	15.720	3611.05	-111.27	108.87	-25.54	1724916.50	14383976.18	39°36'34.0043"N	80°41'59.9285"W	111.83	346.800	0.86	-0.84	21.58	
3685.00	0.370	3.830	3681.05	-111.70	109.36	-25.45	1724916.59	14383976.67	39°36'34.0091"N	80°41'59.9273"W	112.28	346.900	0.16	-0.10	-16.99	APS EM <8-3/4"> (3615')(3685'-6432')
3780.00	2.080	327.000	3776.03	-113.65	111.11	-26.37	1724915.67	14383978.42	39°36'34.0265"N	80°41'59.9390"W	114.20	346.650	1.89	1.80	-38.77	
3874.00	5.100	310.650	3869.83	-118.91	115.26	-30.47	1724911.57	14383982.57	39°36'34.0677"N	80°41'59.9912"W	119.22	345.194	3.36	3.21	-17.39	
3969.00	7.780	307.100	3964.23	-127.89	121.89	-38.80	1724903.24	14383989.20	39°36'34.1335"N	80°42'0.0974"W	127.92	342.343	2.85	2.82	-3.74	
4063.00	9.810	296.000	4057.12	-138.82	129.24	-51.08	1724890.97	14383996.54	39°36'34.2065"N	80°42'0.2539"W	138.97	338.437	2.81	2.16	-11.81	
4158.00	9.980	291.630	4150.71	-149.90	135.83	-66.00	1724876.05	14384003.12	39°36'34.2721"N	80°42'0.4443"W	151.01	334.084	0.81	0.18	-4.60	
4253.00	9.490	302.640	4244.35	-161.39	143.09	-80.25	1724861.81	14384010.38	39°36'34.3443"N	80°42'0.6261"W	164.05	330.714	2.02	-0.52	11.59	
4347.00	9.890	308.480	4337.01	-174.26	152.29	-93.10	1724848.97	14384019.58	39°36'34.4356"N	80°42'0.7898"W	178.49	328.562	1.13	0.43	6.21	
4442.00	11.100	307.530	4430.42	-188.76	162.94	-106.73	1724835.34	14384030.22	39°36'34.5413"N	80°42'0.9636"W	194.78	326.772	1.29	1.27	-1.00	
4537.00	11.500	306.430	4523.58	-204.17	174.13	-121.61	1724820.47	14384041.41	39°36'34.6524"N	80°42'1.1531"W	212.39	325.071	0.48	0.42	-1.16	
4631.00	10.900	300.730	4615.79	-218.66	184.24	-136.79	1724805.30	14384051.51	39°36'34.7528"N	80°42'1.3467"W	229.46	323.408	1.34	-0.64	-6.06	
4726.00	10.990	306.180	4709.07	-232.94	194.17	-151.82	1724790.27	14384061.45	39°36'34.8515"N	80°42'1.5383"W	246.48	321.980	1.09	0.09	5.74	
4822.00	10.300	300.210	4803.42	-246.94	203.89	-166.62	1724775.48	14384071.16	39°36'34.9481"N	80°42'1.7270"W	263.31	320.745	1.35	-0.72	-6.22	
4916.00	9.810	296.470	4895.97	-259.00	211.69	-181.05	1724761.05	14384078.96	39°36'35.0256"N	80°42'1.9110"W	278.55	319.461	0.87	-0.52	-3.98	
5011.00	10.200	302.110	4989.53	-271.30	219.77	-195.42	1724746.69	14384087.03	39°36'35.1059"N	80°42'2.0943"W	294.09	318.356	1.11	0.41	5.94	
5106.00	9.930	298.430	5083.07	-283.87	228.14	-209.75	1724732.36	14384095.40	39°36'35.1891"N	80°42'2.2770"W	309.91	317.405	0.73	-0.28	-3.87	
5201.00	9.350	294.530	5176.73	-295.20	235.24	-223.97	1724718.15	14384102.50	39°36'35.2598"N	80°42'2.4585"W	324.81	316.406	0.92	-0.61	-4.11	
5296.00	10.020	296.970	5270.38	-306.45	242.20	-238.36	1724703.76	14384109.45	39°36'35.3290"N	80°42'2.6420"W	339.82	315.457	0.83	0.71	2.57	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (208 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
5391.00	12.070	312.300	5363.63	-321.10	252.63	-253.08	1724689.05	14384119.88	39°36'35.4326"N	80°42'2.8296"W	357.59	314.950	3.75	2.16	16.14	
5486.00	11.210	309.050	5456.68	-337.64	265.14	-267.59	1724674.54	14384132.38	39°36'35.5567"N	80°42'3.0145"W	376.70	314.736	1.14	-0.91	-3.42	
5580.00	11.150	309.910	5548.89	-353.16	276.72	-281.66	1724660.48	14384143.96	39°36'35.6717"N	80°42'3.1938"W	394.85	314.493	0.19	-0.06	0.91	
5675.00	12.080	311.430	5641.95	-369.66	289.19	-296.16	1724645.99	14384156.43	39°36'35.7954"N	80°42'3.3785"W	413.94	314.318	1.03	0.98	1.60	
5769.00	10.660	305.800	5734.10	-385.31	300.79	-310.59	1724631.56	14384168.02	39°36'35.9105"N	80°42'3.5623"W	432.37	314.082	1.92	-1.51	-5.99	
5864.00	11.700	309.410	5827.30	-400.69	312.05	-325.16	1724617.00	14384179.27	39°36'36.0222"N	80°42'3.7480"W	450.67	313.821	1.32	1.09	3.80	
5959.00	12.730	308.060	5920.15	-417.67	324.61	-340.84	1724601.32	14384191.84	39°36'36.1469"N	80°42'3.9479"W	470.69	313.603	1.13	1.08	-1.42	
6053.00	11.120	304.680	6012.12	-433.65	336.16	-356.45	1724585.72	14384203.37	39°36'36.2615"N	80°42'4.1468"W	489.96	313.322	1.87	-1.71	-3.60	
6148.00	12.540	297.370	6105.10	-448.49	346.11	-373.15	1724569.03	14384213.33	39°36'36.3604"N	80°42'4.3597"W	508.95	312.848	2.17	1.49	-7.69	
6242.00	12.990	295.060	6196.78	-463.21	355.28	-391.78	1724550.41	14384222.49	39°36'36.4516"N	80°42'4.5974"W	528.88	312.203	0.72	0.48	-2.46	
6337.00	10.810	293.580	6289.73	-476.65	363.37	-409.62	1724532.57	14384230.57	39°36'36.5322"N	80°42'4.8250"W	547.56	311.576	2.32	-2.29	-1.56	
6432.00	11.320	298.000	6382.97	-489.48	371.31	-426.02	1724516.18	14384238.51	39°36'36.6112"N	80°42'5.0341"W	565.12	311.075	1.04	0.54	4.65	
6463.00	11.350	297.960	6413.36	-493.93	374.17	-431.40	1724510.80	14384241.37	39°36'36.6396"N	80°42'5.1028"W	571.05	310.936	0.10	0.10	-0.13	BH Lucida <8-1/2"> (6432')(6463'-18589')
6557.00	9.970	275.600	6505.78	-504.07	379.30	-447.67	1724494.53	14384246.50	39°36'36.6909"N	80°42'5.3105"W	586.75	310.274	4.60	-1.47	-23.79	
6652.00	9.930	245.070	6599.41	-506.63	376.65	-463.30	1724478.92	14384243.85	39°36'36.6652"N	80°42'5.5102"W	597.08	309.110	5.49	-0.04	-32.14	
6746.00	12.170	213.250	6691.75	-499.70	364.93	-476.09	1724466.13	14384232.14	39°36'36.5498"N	80°42'5.6742"W	599.87	307.471	6.81	2.38	-33.85	
6841.00	14.100	186.350	6784.35	-483.08	345.04	-482.87	1724459.35	14384212.25	39°36'36.3534"N	80°42'5.7617"W	593.47	305.548	6.68	2.03	-28.32	
6935.00	20.720	177.460	6874.01	-456.75	317.01	-483.40	1724458.82	14384184.23	39°36'36.0764"N	80°42'5.7696"W	578.07	303.257	7.57	7.04	-9.46	
7030.00	28.110	168.860	6960.48	-418.39	278.20	-478.32	1724463.90	14384145.44	39°36'35.6927"N	80°42'5.7064"W	553.34	300.183	8.61	7.78	-9.05	
7056.00†	30.021	168.221	6983.20	-405.86	265.82	-475.81	1724466.41	14384133.06	39°36'35.5702"N	80°42'5.6748"W	545.03	299.190	7.45	7.35	-2.46	Sycamore: 7056' MD
7124.00	35.030	166.850	7040.52	-369.54	230.14	-467.89	1724474.32	14384097.40	39°36'35.2174"N	80°42'5.5752"W	521.43	296.191	7.45	7.37	-2.02	
7210.00†	42.200	166.188	7107.67	-316.15	177.99	-455.37	1724486.84	14384045.27	39°36'34.7015"N	80°42'5.4173"W	488.91	291.349	8.35	8.34	-0.77	Middlesex: 7210' MD
7219.00	42.950	166.130	7114.30	-310.09	172.07	-453.91	1724488.30	14384039.36	39°36'34.6430"N	80°42'5.3990"W	485.43	290.761	8.35	8.34	-0.65	
7313.00	50.590	165.990	7178.64	-241.91	105.65	-437.42	1724504.79	14383972.96	39°36'33.9860"N	80°42'5.1911"W	449.99	283.579	8.13	8.13	-0.15	
7357.00†	53.841	165.907	7205.59	-207.26	71.92	-428.97	1724513.23	14383939.24	39°36'33.6524"N	80°42'5.0846"W	434.96	279.518	7.39	7.39	-0.19	Burkett: 7357' MD
7406.00†	57.462	165.823	7233.23	-166.96	32.70	-419.10	1724523.10	14383900.04	39°36'33.2644"N	80°42'4.9601"W	420.37	274.461	7.39	7.39	-0.17	Tully: 7406' MD
7408.00	57.610	165.820	7234.31	-165.28	31.06	-418.68	1724523.51	14383898.40	39°36'33.2483"N	80°42'4.9549"W	419.83	274.243	7.39	7.39	-0.16	
7503.00	66.050	162.790	7279.12	-81.75	-49.45	-395.97	1724546.22	14383817.92	39°36'32.4518"N	80°42'4.6681"W	399.04	262.881	9.32	8.88	-3.19	
7597.00	72.200	162.210	7312.60	6.01	-133.17	-369.56	1724572.62	14383734.23	39°36'31.6235"N	80°42'4.3342"W	392.82	250.183	6.57	6.54	-0.62	
7623.00†	74.064	162.174	7320.15	30.89	-156.86	-361.95	1724580.22	14383710.55	39°36'31.3891"N	80°42'4.2380"W	394.48	246.569	7.17	7.17	-0.14	Marcellus POE: 7623' MD

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Lodge Unit 1H AWP Proj: 18614'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

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
7692.00	79.010	162.080	7336.20	97.96	-220.71	-341.36	1724600.80	14383646.73	39°36'30.7575"N	80°42'3.9777"W	406.50	237.115	7.17	7.17	-0.14	
7786.00	89.050	163.780	7345.97	191.28	-309.97	-313.97	1724628.19	14383557.51	39°36'29.8744"N	80°42'3.6315"W	441.20	225.368	10.83	10.68	1.81	
7881.00	90.250	161.310	7346.55	286.23	-400.58	-285.47	1724656.67	14383466.93	39°36'28.9779"N	80°42'3.2713"W	491.89	215.476	2.89	1.26	-2.60	
7975.00	90.680	161.290	7345.79	380.23	-489.61	-255.34	1724686.79	14383377.93	39°36'28.0970"N	80°42'2.8900"W	552.20	207.542	0.46	0.46	-0.02	
8069.00	90.620	161.140	7344.72	474.22	-578.60	-225.07	1724717.05	14383288.98	39°36'27.2165"N	80°42'2.5071"W	620.84	201.256	0.17	-0.06	-0.16	
8164.00	90.770	160.830	7343.57	569.22	-668.41	-194.12	1724747.99	14383199.20	39°36'26.3279"N	80°42'2.1155"W	696.03	196.194	0.36	0.16	-0.33	
8258.00	90.650	161.080	7342.40	663.21	-757.26	-163.45	1724778.64	14383110.39	39°36'25.4488"N	80°42'1.7274"W	774.70	192.180	0.29	-0.13	0.27	
8352.00	90.220	159.540	7341.69	757.19	-845.76	-131.78	1724810.30	14383021.93	39°36'24.5731"N	80°42'1.3266"W	855.96	188.856	1.70	-0.46	-1.64	
8447.00	90.150	160.050	7341.38	852.17	-934.91	-98.97	1724843.10	14382932.81	39°36'23.6909"N	80°42'0.9112"W	940.13	186.043	0.54	-0.07	0.54	
8541.00	90.120	160.860	7341.16	946.16	-1023.49	-67.52	1724874.53	14382844.26	39°36'22.8144"N	80°42'0.5132"W	1025.72	183.774	0.86	-0.03	0.86	
8636.00	90.370	158.760	7340.76	1041.14	-1112.65	-34.74	1724907.31	14382755.14	39°36'21.9322"N	80°42'0.0981"W	1113.19	181.788	2.23	0.26	-2.21	
8730.00	90.280	160.540	7340.22	1135.10	-1200.78	-2.05	1724939.98	14382667.04	39°36'21.0601"N	80°41'59.6842"W	1200.78	180.098	1.90	-0.10	1.89	
8824.00	90.220	161.380	7339.81	1229.10	-1289.63	28.62	1724970.63	14382578.22	39°36'20.1809"N	80°41'59.2963"W	1289.95	178.729	0.90	-0.06	0.89	
8919.00	90.250	161.090	7339.42	1324.10	-1379.58	59.18	1725001.18	14382488.31	39°36'19.2909"N	80°41'58.9097"W	1380.85	177.544	0.31	0.03	-0.31	
9014.00	90.220	161.290	7339.03	1419.10	-1469.51	89.81	1725031.80	14382398.42	39°36'18.4012"N	80°41'58.5222"W	1472.25	176.503	0.21	-0.03	0.21	
9108.00	90.120	160.400	7338.75	1513.10	-1558.30	120.65	1725062.63	14382309.66	39°36'17.5226"N	80°41'58.1319"W	1562.97	175.573	0.95	-0.11	-0.95	
9203.00	89.410	159.520	7339.14	1608.08	-1647.55	153.20	1725095.17	14382220.45	39°36'16.6395"N	80°41'57.7198"W	1654.66	174.687	1.19	-0.75	-0.93	
9297.00	89.910	159.500	7339.70	1702.04	-1735.60	186.11	1725128.06	14382132.43	39°36'15.7682"N	80°41'57.3032"W	1745.55	173.880	0.53	0.53	-0.02	
9392.00	90.180	160.000	7339.63	1797.01	-1824.73	218.99	1725160.93	14382043.34	39°36'14.8862"N	80°41'56.8869"W	1837.82	173.157	0.60	0.28	0.53	
9486.00	90.220	158.860	7339.30	1890.97	-1912.73	252.01	1725193.94	14381955.37	39°36'14.0154"N	80°41'56.4688"W	1929.26	172.494	1.21	0.04	-1.21	
9581.00	89.880	158.400	7339.22	1985.89	-2001.20	286.63	1725228.55	14381866.94	39°36'13.1399"N	80°41'56.0303"W	2021.62	171.849	0.60	-0.36	-0.48	
9675.00	90.220	159.230	7339.13	2079.81	-2088.85	320.60	1725262.50	14381779.33	39°36'12.2726"N	80°41'55.6001"W	2113.31	171.274	0.95	0.36	0.88	
9770.00	90.220	158.830	7338.77	2174.75	-2177.55	354.60	1725296.49	14381690.65	39°36'11.3947"N	80°41'55.1695"W	2206.24	170.751	0.42	0.00	-0.42	
9865.00	90.280	162.060	7338.35	2269.74	-2267.06	386.39	1725328.27	14381601.18	39°36'10.5091"N	80°41'54.7672"W	2299.75	170.328	3.40	0.06	3.40	
9960.00	90.310	161.940	7337.87	2364.72	-2357.41	415.75	1725357.61	14381510.87	39°36'9.6151"N	80°41'54.3960"W	2393.79	169.998	0.13	0.03	-0.13	
10055.00	90.150	162.130	7337.48	2459.71	-2447.78	445.05	1725386.90	14381420.53	39°36'8.7211"N	80°41'54.0256"W	2487.91	169.695	0.26	-0.17	0.20	
10150.00	89.020	161.560	7338.17	2554.69	-2538.05	474.65	1725416.49	14381330.30	39°36'7.8280"N	80°41'53.6513"W	2582.05	169.407	1.33	-1.19	-0.60	
10245.00	90.280	161.800	7338.75	2649.68	-2628.23	504.51	1725446.34	14381240.16	39°36'6.9357"N	80°41'53.2737"W	2676.21	169.134	1.35	1.33	0.25	
10340.00	90.340	162.290	7338.24	2744.67	-2718.60	533.79	1725475.61	14381149.82	39°36'6.0416"N	80°41'52.9034"W	2770.51	168.891	0.52	0.06	0.52	
10435.00	90.460	162.230	7337.58	2839.65	-2809.08	562.74	1725504.55	14381059.38	39°36'5.1464"N	80°41'52.5375"W	2864.89	168.672	0.14	0.13	-0.06	

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10530.00	90.520	162.010	7336.76	2934.63	-2899.49	591.90	1725533.70	14380969.00	39°36'4.2519"N	80°41'52.1688"W	2959.29	168.462	0.24	0.06	-0.23	
10624.00	90.370	162.070	7336.03	3028.61	-2988.90	620.89	1725562.67	14380879.62	39°36'3.3672"N	80°41'51.8024"W	3052.71	168.265	0.17	-0.16	0.06	
10720.00	90.400	162.210	7335.39	3124.59	-3080.28	650.33	1725592.10	14380788.29	39°36'2.4632"N	80°41'51.4302"W	3148.18	168.078	0.15	0.03	0.15	
10815.00	90.310	161.710	7334.80	3219.58	-3170.60	679.75	1725621.51	14380697.99	39°36'1.5695"N	80°41'51.0582"W	3242.65	167.899	0.53	-0.09	-0.53	
10909.00	90.310	161.620	7334.29	3313.57	-3259.83	709.32	1725651.07	14380608.80	39°36'0.6867"N	80°41'50.6843"W	3336.11	167.724	0.10	0.00	-0.10	
11003.00	90.280	161.840	7333.81	3407.56	-3349.09	738.79	1725680.53	14380519.58	39°35'59.8035"N	80°41'50.3117"W	3429.61	167.560	0.24	-0.03	0.23	
11098.00	89.110	160.780	7334.31	3502.56	-3439.08	769.23	1725710.96	14380429.63	39°35'58.9132"N	80°41'49.9267"W	3524.05	167.392	1.66	-1.23	-1.12	
11192.00	90.220	161.580	7334.86	3596.55	-3528.05	799.55	1725741.27	14380340.69	39°35'58.0328"N	80°41'49.5431"W	3617.51	167.231	1.46	1.18	0.85	
11287.00	90.220	161.700	7334.50	3691.55	-3618.21	829.47	1725771.18	14380250.56	39°35'57.1407"N	80°41'49.1648"W	3712.07	167.088	0.13	0.00	0.13	
11381.00	90.340	161.910	7334.04	3785.54	-3707.51	858.83	1725800.52	14380161.30	39°35'56.2572"N	80°41'48.7936"W	3805.68	166.958	0.26	0.13	0.22	
11476.00	90.370	161.790	7333.45	3880.53	-3797.78	888.42	1725830.10	14380071.06	39°35'55.3641"N	80°41'48.4195"W	3900.31	166.834	0.13	0.03	-0.13	
11571.00	90.370	161.830	7332.84	3975.52	-3888.03	918.07	1725859.74	14379980.85	39°35'54.4711"N	80°41'48.0445"W	3994.95	166.714	0.04	0.00	0.04	
11665.00	90.280	161.820	7332.30	4069.51	-3977.34	947.39	1725889.05	14379891.58	39°35'53.5875"N	80°41'47.6738"W	4088.62	166.602	0.10	-0.10	-0.01	
11760.00	90.370	161.960	7331.76	4164.49	-4067.63	976.92	1725918.57	14379801.32	39°35'52.6941"N	80°41'47.3005"W	4183.30	166.495	0.18	0.09	0.15	
11855.00	90.370	161.520	7331.15	4259.49	-4157.85	1006.69	1725948.32	14379711.14	39°35'51.8015"N	80°41'46.9242"W	4277.98	166.390	0.46	0.00	-0.46	
11950.00	89.690	161.350	7331.10	4354.48	-4247.90	1036.93	1725978.56	14379621.12	39°35'50.9105"N	80°41'46.5417"W	4372.63	166.282	0.74	-0.72	-0.18	
12044.00	90.150	162.010	7331.23	4448.48	-4337.14	1066.48	1726008.09	14379531.92	39°35'50.0276"N	80°41'46.1681"W	4466.33	166.185	0.86	0.49	0.70	
12139.00	90.280	161.680	7330.88	4543.47	-4427.41	1096.08	1726037.68	14379441.69	39°35'49.1345"N	80°41'45.7938"W	4561.07	166.095	0.37	0.14	-0.35	
12233.00	89.540	161.500	7331.02	4637.46	-4516.60	1125.77	1726067.35	14379352.53	39°35'48.2520"N	80°41'45.4185"W	4654.78	166.004	0.81	-0.79	-0.19	
12328.00	89.420	160.250	7331.88	4732.46	-4606.35	1156.89	1726098.47	14379262.82	39°35'47.3639"N	80°41'45.0248"W	4749.40	165.902	1.32	-0.13	-1.32	
12423.00	88.860	159.240	7333.31	4827.42	-4695.46	1189.78	1726131.34	14379173.74	39°35'46.4821"N	80°41'44.6085"W	4843.85	165.781	1.22	-0.59	-1.06	
12518.00	89.820	162.030	7334.41	4922.40	-4785.07	1221.27	1726162.82	14379084.16	39°35'45.5954"N	80°41'44.2101"W	4938.46	165.682	3.11	1.01	2.94	
12612.00	89.420	162.180	7335.03	5016.38	-4874.52	1250.15	1726191.69	14378994.75	39°35'44.7104"N	80°41'43.8450"W	5032.28	165.616	0.45	-0.43	0.16	
12706.00	89.380	161.950	7336.01	5110.36	-4963.95	1279.10	1726220.62	14378905.36	39°35'43.8256"N	80°41'43.4791"W	5126.10	165.550	0.25	-0.04	-0.24	
12801.00	89.660	161.870	7336.81	5205.35	-5054.25	1308.60	1726250.11	14378815.09	39°35'42.9322"N	80°41'43.1062"W	5220.91	165.484	0.31	0.29	-0.08	
12896.00	89.380	161.750	7337.60	5300.34	-5144.50	1338.25	1726279.75	14378724.88	39°35'42.0392"N	80°41'42.7313"W	5315.71	165.419	0.32	-0.29	-0.13	
12990.00	89.940	161.680	7338.16	5394.33	-5233.75	1367.74	1726309.23	14378635.66	39°35'41.1562"N	80°41'42.3585"W	5409.52	165.354	0.60	0.60	-0.07	
13085.00	90.180	161.870	7338.06	5489.32	-5323.98	1397.45	1726338.93	14378545.46	39°35'40.2634"N	80°41'41.9829"W	5504.33	165.293	0.32	0.25	0.20	
13179.00	89.110	161.450	7338.65	5583.31	-5413.21	1427.03	1726368.50	14378456.28	39°35'39.3806"N	80°41'41.6089"W	5598.14	165.232	1.22	-1.14	-0.45	
13274.00	90.220	162.120	7339.20	5678.30	-5503.44	1456.72	1726398.18	14378366.07	39°35'38.4878"N	80°41'41.2335"W	5692.97	165.174	1.36	1.17	0.71	

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Actual Wellpath Report

Lodge Unit 1H AWP Proj: 18614'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

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
13369.00	90.060	161.450	7338.97	5773.29	-5593.68	1486.42	1726427.86	14378275.87	39°35'37.5949"N	80°41'40.8581"W	5787.81	165.119	0.73	-0.17	-0.71	
13463.00	90.090	161.710	7338.85	5867.29	-5682.87	1516.12	1726457.55	14378186.72	39°35'36.7125"N	80°41'40.4826"W	5881.63	165.062	0.28	0.03	0.28	
13558.00	90.120	161.370	7338.67	5962.28	-5772.98	1546.20	1726487.62	14378096.65	39°35'35.8209"N	80°41'40.1022"W	5976.45	165.006	0.36	0.03	-0.36	
13652.00	90.120	161.960	7338.47	6056.28	-5862.20	1575.77	1726517.18	14378007.45	39°35'34.9381"N	80°41'39.7284"W	6070.30	164.954	0.63	0.00	0.63	
13747.00	90.180	161.910	7338.23	6151.27	-5952.52	1605.23	1726546.63	14377917.17	39°35'34.0445"N	80°41'39.3560"W	6165.17	164.908	0.08	0.06	-0.05	
13842.00	89.970	161.340	7338.10	6246.26	-6042.68	1635.18	1726576.56	14377827.05	39°35'33.1525"N	80°41'38.9774"W	6260.01	164.858	0.64	-0.22	-0.60	
13937.00	90.220	161.630	7337.94	6341.26	-6132.76	1665.35	1726606.72	14377737.01	39°35'32.2611"N	80°41'38.5960"W	6354.85	164.808	0.40	0.26	0.31	
14031.00	90.060	161.740	7337.71	6435.25	-6222.00	1694.88	1726636.25	14377647.80	39°35'31.3782"N	80°41'38.2225"W	6448.71	164.762	0.21	-0.17	0.12	
14126.00	90.430	162.160	7337.31	6530.24	-6312.32	1724.32	1726665.67	14377557.52	39°35'30.4845"N	80°41'37.8505"W	6543.60	164.721	0.59	0.39	0.44	
14220.00	90.280	161.870	7336.73	6624.23	-6401.73	1753.34	1726694.68	14377468.15	39°35'29.6000"N	80°41'37.4836"W	6637.49	164.683	0.35	-0.16	-0.31	
14315.00	90.310	161.600	7336.24	6719.22	-6491.94	1783.12	1726724.44	14377377.97	39°35'28.7074"N	80°41'37.1072"W	6732.37	164.642	0.29	0.03	-0.28	
14409.00	90.340	161.800	7335.70	6813.21	-6581.18	1812.63	1726753.95	14377288.76	39°35'27.8244"N	80°41'36.7341"W	6826.24	164.601	0.22	0.03	0.21	
14504.00	90.120	161.760	7335.32	6908.20	-6671.42	1842.33	1726783.64	14377198.56	39°35'26.9315"N	80°41'36.3586"W	6921.13	164.562	0.24	-0.23	-0.04	
14599.00	90.000	161.500	7335.22	7003.20	-6761.58	1872.27	1726813.57	14377108.44	39°35'26.0395"N	80°41'35.9801"W	7016.01	164.523	0.30	-0.13	-0.27	
14693.00	90.180	161.690	7335.08	7097.19	-6850.77	1901.95	1726843.23	14377019.28	39°35'25.1570"N	80°41'35.6049"W	7109.88	164.484	0.28	0.19	0.20	
14788.00	90.340	161.870	7334.64	7192.18	-6941.00	1931.65	1726872.92	14376929.08	39°35'24.2642"N	80°41'35.2295"W	7204.78	164.448	0.25	0.17	0.19	
14882.00	90.370	161.730	7334.06	7286.17	-7030.30	1961.01	1726902.27	14376839.82	39°35'23.3807"N	80°41'34.8584"W	7298.68	164.414	0.15	0.03	-0.15	
14977.00	90.030	161.680	7333.73	7381.17	-7120.50	1990.84	1726932.08	14376749.66	39°35'22.4882"N	80°41'34.4814"W	7393.57	164.379	0.36	-0.36	-0.05	
15071.00	89.880	160.420	7333.80	7475.17	-7209.40	2021.36	1726962.59	14376660.79	39°35'21.6085"N	80°41'34.0954"W	7487.41	164.338	1.35	-0.16	-1.34	
15166.00	89.910	160.830	7333.98	7570.16	-7299.02	2052.88	1726994.10	14376571.20	39°35'20.7217"N	80°41'33.6967"W	7582.22	164.291	0.43	0.03	0.43	
15261.00	89.970	160.570	7334.08	7665.16	-7388.68	2084.28	1727025.48	14376481.58	39°35'19.8346"N	80°41'33.2996"W	7677.03	164.247	0.28	0.06	-0.27	
15355.00	90.000	160.870	7334.10	7759.16	-7477.41	2115.31	1727056.51	14376392.88	39°35'18.9566"N	80°41'32.9070"W	7770.86	164.204	0.32	0.03	0.32	
15450.00	89.750	160.610	7334.31	7854.16	-7567.09	2146.65	1727087.83	14376303.24	39°35'18.0692"N	80°41'32.5107"W	7865.68	164.162	0.38	-0.26	-0.27	
15545.00	89.780	160.630	7334.70	7949.15	-7656.71	2178.17	1727119.34	14376213.66	39°35'17.1824"N	80°41'32.1120"W	7960.50	164.120	0.04	0.03	0.02	
15639.00	90.060	160.820	7334.83	8043.15	-7745.44	2209.20	1727150.36	14376124.96	39°35'16.3044"N	80°41'31.7195"W	8054.34	164.080	0.36	0.30	0.20	
15733.00	89.970	160.510	7334.81	8137.15	-7834.14	2240.32	1727181.47	14376036.30	39°35'15.4268"N	80°41'31.3259"W	8148.18	164.041	0.34	-0.10	-0.33	
15828.00	89.880	160.540	7334.93	8232.15	-7923.70	2272.00	1727213.13	14375946.77	39°35'14.5405"N	80°41'30.9252"W	8243.00	164.001	0.10	-0.09	0.03	
15923.00	90.000	160.330	7335.03	8327.14	-8013.22	2303.81	1727244.93	14375857.29	39°35'13.6548"N	80°41'30.5228"W	8337.82	163.960	0.25	0.13	-0.22	
16018.00	89.970	160.710	7335.05	8422.13	-8102.78	2335.49	1727276.60	14375767.76	39°35'12.7685"N	80°41'30.1221"W	8432.65	163.921	0.40	-0.03	0.40	
16112.00	89.970	160.870	7335.10	8516.13	-8191.55	2366.42	1727307.52	14375679.03	39°35'11.8902"N	80°41'29.7309"W	8526.51	163.887	0.17	0.00	0.17	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (208 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
16207.00	89.880	160.700	7335.23	8611.13	-8281.25	2397.69	1727338.77	14375589.36	39°35'11.0025"N	80°41'29.3355"W	8621.37	163.853	0.20	-0.09	-0.18	
16302.00	90.030	160.880	7335.30	8706.13	-8370.96	2428.94	1727370.02	14375499.68	39°35'10.1149"N	80°41'28.9402"W	8716.24	163.819	0.25	0.16	0.19	
16396.00	89.970	160.680	7335.30	8800.13	-8459.72	2459.89	1727400.95	14375410.96	39°35'9.2366"N	80°41'28.5489"W	8810.11	163.787	0.22	-0.06	-0.21	
16491.00	89.850	160.480	7335.45	8895.13	-8549.32	2491.47	1727432.52	14375321.40	39°35'8.3500"N	80°41'28.1494"W	8904.96	163.753	0.25	-0.13	-0.21	
16586.00	89.970	160.710	7335.60	8990.12	-8638.92	2523.04	1727464.07	14375231.83	39°35'7.4634"N	80°41'27.7502"W	8999.82	163.719	0.27	0.13	0.24	
16680.00	89.940	160.660	7335.67	9084.12	-8727.63	2554.13	1727495.15	14375143.16	39°35'6.5856"N	80°41'27.3570"W	9093.69	163.688	0.06	-0.03	-0.05	
16775.00	90.060	160.910	7335.67	9179.12	-8817.34	2585.39	1727526.41	14375053.48	39°35'5.6980"N	80°41'26.9616"W	9188.56	163.658	0.29	0.13	0.26	
16869.00	90.030	160.780	7335.60	9273.12	-8906.13	2616.24	1727557.24	14374964.72	39°35'4.8193"N	80°41'26.5715"W	9282.45	163.629	0.14	-0.03	-0.14	
16964.00	90.090	160.770	7335.50	9368.12	-8995.84	2647.52	1727588.51	14374875.06	39°35'3.9317"N	80°41'26.1759"W	9377.34	163.601	0.06	0.06	-0.01	
17058.00	90.180	160.460	7335.28	9462.12	-9084.51	2678.72	1727619.69	14374786.42	39°35'3.0543"N	80°41'25.7813"W	9471.21	163.571	0.34	0.10	-0.33	
17153.00	89.820	160.200	7335.28	9557.11	-9173.96	2710.70	1727651.66	14374697.00	39°35'2.1691"N	80°41'25.3769"W	9566.06	163.539	0.47	-0.38	-0.27	
17247.00	89.940	160.630	7335.48	9651.10	-9262.52	2742.21	1727683.16	14374608.47	39°35'1.2928"N	80°41'24.9783"W	9659.92	163.508	0.47	0.13	0.46	
17342.00	90.400	160.650	7335.19	9746.10	-9352.15	2773.70	1727714.64	14374518.88	39°35'0.4059"N	80°41'24.5800"W	9754.80	163.480	0.48	0.48	0.02	
17436.00	90.090	160.530	7334.79	9840.09	-9440.81	2804.94	1727745.86	14374430.26	39°34'59.5286"N	80°41'24.1850"W	9848.68	163.453	0.35	-0.33	-0.13	
17531.00	90.280	160.610	7334.49	9935.09	-9530.40	2836.54	1727777.45	14374340.71	39°34'58.6421"N	80°41'23.7853"W	9943.56	163.425	0.22	0.20	0.08	
17626.00	90.310	160.620	7334.00	10030.09	-9620.01	2868.07	1727808.97	14374251.13	39°34'57.7554"N	80°41'23.3865"W	10038.45	163.399	0.03	0.03	0.01	
17720.00	90.220	160.680	7333.56	10124.08	-9708.70	2899.22	1727840.10	14374162.47	39°34'56.8778"N	80°41'22.9927"W	10132.34	163.373	0.12	-0.10	0.06	
17815.00	90.340	161.000	7333.10	10219.08	-9798.44	2930.39	1727871.27	14374072.77	39°34'55.9899"N	80°41'22.5984"W	10227.25	163.350	0.36	0.13	0.34	
17910.00	90.370	160.730	7332.51	10314.08	-9888.19	2961.53	1727902.40	14373983.06	39°34'55.1018"N	80°41'22.2046"W	10322.16	163.327	0.29	0.03	-0.28	
18004.00	89.970	160.500	7332.23	10408.07	-9976.86	2992.73	1727933.59	14373894.42	39°34'54.2244"N	80°41'21.8101"W	10416.05	163.302	0.49	-0.43	-0.24	
18099.00	90.090	160.560	7332.18	10503.07	-10066.42	3024.40	1727965.24	14373804.89	39°34'53.3381"N	80°41'21.4096"W	10510.94	163.277	0.14	0.13	0.06	
18193.00	90.120	160.770	7332.01	10597.07	-10155.12	3055.52	1727996.35	14373716.23	39°34'52.4604"N	80°41'21.0161"W	10604.84	163.254	0.23	0.03	0.22	
18288.00	90.000	160.590	7331.91	10692.07	-10244.77	3086.95	1728027.77	14373626.61	39°34'51.5733"N	80°41'20.6186"W	10699.75	163.231	0.23	-0.13	-0.19	
18382.00	90.030	160.540	7331.88	10786.06	-10333.42	3118.23	1728059.03	14373538.00	39°34'50.6962"N	80°41'20.2231"W	10793.65	163.208	0.06	0.03	-0.05	
18477.00	89.910	160.370	7331.93	10881.06	-10422.94	3150.01	1728090.80	14373448.51	39°34'49.8103"N	80°41'19.8211"W	10888.54	163.184	0.22	-0.13	-0.18	
18571.00	89.630	159.770	7332.31	10975.04	-10511.31	3182.05	1728122.83	14373360.18	39°34'48.9358"N	80°41'19.4158"W	10982.40	163.158	0.70	-0.30	-0.64	
18589.00	89.110	159.180	7332.51	10993.03	-10528.17	3188.36	1728129.14	14373343.33	39°34'48.7690"N	80°41'19.3360"W	11000.36	163.152	4.37	-2.89	-3.28	
18614.00‡	89.110	159.180	7332.90	11018.02	-10551.53	3197.25	1728138.02	14373319.97	39°34'48.5378"N	80°41'19.2235"W	11025.30	163.143	0.00	0.00	0.00	Projected MD at TD: 18614'

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Actual Wellpath Report

Lodge Unit 1H AWP Proj: 18614'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = **6.83**

Values	Wellpath characterized as:
< 6.0	Relatively short or simple profiles with low tortuosity
< 6.0-6.4	Shorter with high tortuosity or longer with lower tortuosity

Reference: IADC/SPE 59196

Values	Wellpath characterized as:
6.4-6.8	Longer with relatively tortuous well paths
> 6.8	Long tortuous profiles, high degree of difficulty

HOLE & CASING SECTIONS - Ref Wellbore: Lodge Unit 1H AWB Ref Wellpath: Lodge Unit 1H AWP Proj: 18614'

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	0.30	0.10
17 1/2in Open Hole	130.00	494.00	364.00	130.00	494.00	0.30	0.10	0.46	0.20
13 3/8in Casing Surface	30.00	474.00	444.00	30.00	474.00	0.00	0.00	0.49	0.16
12 1/4in Open Hole	494.00	3690.00	3196.00	494.00	3686.05	0.46	0.20	109.39	-25.45
9 5/8in Casing Intermediate	30.00	3660.00	3630.00	30.00	3656.05	0.00	0.00	109.19	-25.47
8 3/4in Open Hole	3690.00	6505.00	2815.00	3686.05	6454.60	109.39	-25.45	377.33	-438.69
8 1/2in Open Hole	6505.00	18614.00	12109.00	6454.60	7332.90	377.33	-438.69	-10551.53	3197.25
5 1/2in Casing Production	30.00	18594.00	18564.00	30.00	7332.59	0.00	0.00	-10532.84	3190.14

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Lodge Unit 1H POE Rev-1	7300.50	-156.35	-368.17	1724574.00	14383711.06	39°36'31.3944"N	80°42'4.3175"W	point
Lodge Unit 1H POE Rev-2	7310.00	-156.35	-368.17	1724574.00	14383711.06	39°36'31.3944"N	80°42'4.3175"W	point
Lodge Unit 1H POE Rev-3	7325.00	-156.35	-368.17	1724574.00	14383711.06	39°36'31.3944"N	80°42'4.3175"W	point
Lodge Unit 1H BHL Rev-1	7325.50	-10621.04	3222.71	1728163.47	14373250.49	39°34'47.8499"N	80°41'18.9014"W	point
Lodge Unit 1H BHL Rev-2	7338.00	-10621.04	3222.71	1728163.47	14373250.49	39°34'47.8499"N	80°41'18.9014"W	point
Lodge Unit 1H LP Rev-2	7338.00	-343.92	-303.81	1724638.34	14383523.57	39°36'29.5385"N	80°42'3.5032"W	point
Lodge Unit 1H BHL Rev-3	7351.00	-10621.04	3222.71	1728163.47	14373250.49	39°34'47.8499"N	80°41'18.9014"W	point
Lodge Unit 1H LP Rev-3	7351.00	-337.22	-306.11	1724636.04	14383530.26	39°36'29.6048"N	80°42'3.5322"W	point

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TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Lodge Unit 1H 50' L/R Hard Line	7500.00	-5388.70	1427.27	1726368.73	14378480.77	39°35'39.6228"N	80°41'41.6048"W	rectangle
	2D Rectangle: 11063.6 x 100.							

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

WELLPATH COMPOSITION - Ref Wellbore: Lodge Unit 1H AWB Ref Wellpath: Lodge Unit 1H AWP Proj: 18614'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	400.00	Gyrodata 2015 - GC+WIR+DPIPE	01_Gyrodata MS Gyro <17-1/2"> (100'-400')	Lodge Unit 1H AWB	2026-01-15
400.00	560.00	Gyrodata 2015 - GC+WIR+DPIPE	02_Gyrodata MS Gyro <12-1/4"> (400')(500'-560')	Lodge Unit 1H AWB	2026-01-17
560.00	3615.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-1/4"> (560')(594'-3615')	Lodge Unit 1H AWB	2026-01-15
3615.00	6432.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (3615')(3685'-6432')	Lodge Unit 1H AWB	2026-01-15
6432.00	18614.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH Lucida <8-1/2"> (6432')(6463'-18589')	Lodge Unit 1H AWB	2026-01-15

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 1H
Field	Wetzel	UWI	47-103-03790-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 1H AWB
Slot	Slot D		

COMMENTS

Wellpath general comments

API: 47-103-03790-0000
BH Job #: 112930784
Rig: H&P 519
Duration: 1/16/2026-1/23/2026
Gyrodata MS Gyro <17-1/2"> (100'-400')
Gyrodata MS Gyro <12-1/4"> (400')(500'-560')
APS EM <12-1/4"> (560')(594'-3615')
APS EM <8-3/4"> (3615')(3685'-6432')
BH Lucida <8-1/2"> (6432')(6463'-18589')
Sycamore: 7056' MD
Middlesex: 7210' MD
Burkett: 7357' MD
Tully: 7406' MD
Marcellus POE: 7623' MD
Projected MD at TD: 18614'