ANTERO RESOURCES CORPORATION

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

Well: Lodge Unit 2H
UWI: 47-103-03791-0000
Wellbore: Lodge Unit 2H PWB
Wellpath: Lodge Unit 2H PWP Rev-C.0

Plot reference wellpath is Lodge Unit 2H PWP Rev-C.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 C): -1410 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edsaryar on 2026-03-04; Database: WA_MPL_EASTERNUS_Defn

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 C	-4.72	-29.62	1724956.840	14383869.710	39°36'32.9503N	80°41'59.4174W
Comment	Lodge Unit 2H					
H&P 519 (RKB) to Ground level (At Slot: Slot C)					30ft	
Mean Sea Level to Ground level (At Slot: Slot C)					-1410ft	
H&P 519 (RKB) to Mean Sea Level					1440ft	

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3616.00	0.550	279.510	3607.58	152.92	26.14	0.40	-136.16
Proj. to Bottom	3691.00	0.550	279.510	3682.57	153.04	25.43	0.00	-136.50
KOP 1	3771.00	0.550	279.510	3762.57	153.16	24.67	0.00	-136.86
End of 3D Arc	4210.65	8.727	14.623	4200.52	185.85	31.02	2.00	-165.72
Curve KOP	6583.30	8.727	14.623	6545.70	534.18	121.90	0.00	-465.70
POE	7606.21	74.514	161.062	7325.00	59.48	339.82	8.00	54.04
Landing Pt.	7799.78	90.000	161.062	7351.00	-121.39	401.88	8.00	245.26
BHL	18672.04	90.000	161.062	7351.00	-10405.17	3930.34	0.00	11117.52

Well Data

Slot	Well	Wellbore	Wellpath
Slot C	Lodge Unit 2H	Lodge Unit 2H AWB	Lodge Unit 2H AWP Proj: 18626'
Slot C	Lodge Unit 2H	Lodge Unit 2H PWB	Lodge Unit 2H PWP Rev-C.0

Gyrodata MS Gyro <17-1/2"> (100'-400') : 0.29° Inc, 100.00ft MD, 100.00ft TVD, 0.17ft VS

Gyrodata MS Gyro <12-1/4"> (400')(500'-565') : 0.13° Inc, 500.00ft MD, 499.99ft TVD, 2.09ft VS

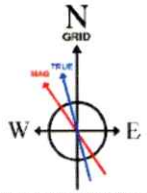
APS EM <12-1/4"> (565')(594'-3616') : 0.13° Inc, 594.00ft MD, 593.99ft TVD, 2.37ft VS

APS EM <8-3/4"> (3616')(3689'-6432') : 0.47° Inc, 3689.00ft MD, 3680.57ft TVD, -136.41ft VS

BH Lucida <8-1/2"> (6432')(6464'-18601') : 8.64° Inc, 6464.00ft MD, 6427.99ft TVD, -452.00ft VS

Marcellus POE: 7620' MD : 76.34° Inc, 7620.00ft MD, 7330.52ft TVD, 81.82ft VS

Projected MD at TD: 18626' : 90.06° Inc, 18626.00ft MD, 7341.52ft TVD, 11084.97ft VS



User specified (HDGM) Dip: 66.14° Field: 51421.3 nT
Magnetic North is 8.05 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 8.24 degrees

API: 47-103-03791-0000
BH Job #: 112930783
Rig: H&P 519
Duration: 1/26/2026-1/29/2026

BH Lucida <8-1/2"> (6432')(6464'-18601') : 6427.99ft TVD, 520.10ft N, 123.06ft E
APS EM <8-3/4"> (3616')(3689'-6432') : 3680.57ft TVD, 152.96ft N, 25.49ft E
APS EM <12-1/4"> (565')(594'-3616') : 593.99ft TVD, 2.58ft S, 0.21ft W
Gyrodata MS Gyro <12-1/4"> (400')(500'-565') : 499.99ft TVD, 2.30ft S, 0.26ft W
Gyrodata MS Gyro <17-1/2"> (100'-400') : 100.00ft TVD, 0.18ft S, 0.01ft E

Marcellus POE: 7620' MD : 7330.52ft TVD, 31.71ft N, 344.50ft E

Projected MD at TD: 18626' : 7341.52ft TVD, 10373.25ft S, 3923.07ft E

Slot C

POE : 83'

BHL : 83'

Lodge Unit 2H 50' LIR Hard Line

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Scale 1 inch = 2000

Easting (ft)

-3000 -2000 -1000 0 1000 2000 3000 4000 5000

Northing (ft)

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

Scale 1 inch = 1500

True Vertical Depth (ft)

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

Vertical Section (ft)

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

Scale 1 inch = 1500

Azimuth 161.060° with reference 0.00 N, 0.00 E

Actual Wellpath Report

Lodge Unit 2H AWP Proj: 18626'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet [32067]	Software System	WellArchitect® 7.0.1
North Reference	Grid	Report Generated By	Edsaryar on 2026-03-04 at 1:20:51 PM
Scale	0.999608	Last Updated	2026-03-04
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	-4.72	-29.62	1724956.84	14383869.71	39°36'32.9503"N	80°41'59.4174"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 C)	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°

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (205 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	175.430	0.00	0.00	0.00	0.00	1724956.84	14383869.71	39°36'32.9503"N	80°41'59.4174"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	175.430	30.00	0.00	0.00	0.00	1724956.84	14383869.71	39°36'32.9503"N	80°41'59.4174"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.290	175.430	100.00	0.17	-0.18	0.01	1724956.85	14383869.53	39°36'32.9486"N	80°41'59.4173"W	0.18	175.430	0.41	0.41	0.00	Gyrodata MS Gyro <17-1/2"> (100'-400')
200.00	0.420	192.690	200.00	0.73	-0.79	-0.05	1724956.79	14383868.92	39°36'32.9426"N	80°41'59.4181"W	0.79	183.365	0.17	0.13	17.26	
300.00	0.380	192.610	300.00	1.32	-1.47	-0.20	1724956.64	14383868.24	39°36'32.9358"N	80°41'59.4200"W	1.48	187.728	0.04	-0.04	-0.08	
400.00	0.230	184.070	399.99	1.79	-1.99	-0.29	1724956.55	14383867.72	39°36'32.9307"N	80°41'59.4212"W	2.01	188.167	0.16	-0.15	-8.54	
500.00	0.130	157.390	499.99	2.09	-2.30	-0.26	1724956.58	14383867.41	39°36'32.9276"N	80°41'59.4208"W	2.31	186.371	0.13	-0.10	-26.68	Gyrodata MS Gyro <12-1/4"> (400')(500'-565')
565.00	0.220	176.930	564.99	2.28	-2.49	-0.22	1724956.62	14383867.22	39°36'32.9257"N	80°41'59.4204"W	2.50	185.083	0.16	0.14	30.06	
594.00	0.130	168.350	593.99	2.37	-2.58	-0.21	1724956.63	14383867.13	39°36'32.9249"N	80°41'59.4203"W	2.59	184.698	0.32	-0.31	-29.59	APS EM <12-1/4"> (565')(594'-3616')
684.00	1.080	26.120	683.99	1.87	-1.92	0.18	1724957.02	14383867.80	39°36'32.9314"N	80°41'59.4152"W	1.92	174.563	1.32	1.06	-158.03	
773.00	3.280	21.290	772.92	-0.67	1.21	1.48	1724958.32	14383870.92	39°36'32.9622"N	80°41'59.3985"W	1.91	50.646	2.48	2.47	-5.43	
863.00	5.510	17.890	862.65	-6.09	7.72	3.74	1724960.58	14383877.43	39°36'33.0265"N	80°41'59.3693"W	8.58	25.833	2.49	2.48	-3.78	
953.00	6.410	15.410	952.16	-13.70	16.68	6.40	1724963.24	14383886.38	39°36'33.1149"N	80°41'59.3349"W	17.86	20.997	1.04	1.00	-2.76	
1043.00	6.060	13.900	1041.63	-21.84	26.13	8.88	1724965.71	14383895.83	39°36'33.2083"N	80°41'59.3029"W	27.60	18.763	0.43	-0.39	-1.68	
1137.00	5.650	12.190	1135.14	-29.97	35.47	11.05	1724967.88	14383905.17	39°36'33.3005"N	80°41'59.2748"W	37.15	17.297	0.47	-0.44	-1.82	
1232.00	6.770	18.530	1229.58	-38.41	45.35	13.81	1724970.65	14383915.04	39°36'33.3981"N	80°41'59.2390"W	47.41	16.939	1.38	1.18	6.67	
1326.00	7.550	21.150	1322.85	-47.54	56.37	17.80	1724974.64	14383926.05	39°36'33.5068"N	80°41'59.1876"W	59.11	17.528	0.90	0.83	2.79	
1421.00	7.250	18.320	1417.06	-57.08	67.88	21.94	1724978.77	14383937.56	39°36'33.6204"N	80°41'59.1342"W	71.33	17.911	0.50	-0.32	-2.98	
1515.00	6.820	11.160	1510.35	-66.63	78.98	24.88	1724981.71	14383948.66	39°36'33.7301"N	80°41'59.0961"W	82.81	17.487	1.04	-0.46	-7.62	
1610.00	6.570	6.540	1604.70	-76.42	89.92	26.59	1724983.42	14383959.59	39°36'33.8381"N	80°41'59.0738"W	93.77	16.476	0.62	-0.26	-4.86	
1704.00	6.390	14.840	1698.10	-85.62	100.32	28.55	1724985.37	14383969.99	39°36'33.9408"N	80°41'59.0484"W	104.30	15.884	1.01	-0.19	8.83	
1799.00	6.880	17.330	1792.47	-94.60	110.86	31.60	1724988.42	14383980.52	39°36'34.0449"N	80°41'59.0090"W	115.27	15.908	0.60	0.52	2.62	
1893.00	6.540	12.700	1885.82	-103.70	121.46	34.45	1724991.28	14383991.12	39°36'34.1495"N	80°41'58.9721"W	126.25	15.835	0.68	-0.36	-4.93	
1988.00	4.920	8.400	1980.35	-111.92	130.76	36.23	1724993.06	14384000.42	39°36'34.2415"N	80°41'58.9489"W	135.69	15.488	1.76	-1.71	-4.53	
2082.00	4.860	10.910	2074.00	-118.96	138.66	37.58	1724994.40	14384008.32	39°36'34.3195"N	80°41'58.9314"W	143.66	15.163	0.24	-0.06	2.67	
2177.00	3.620	7.020	2168.74	-125.14	145.59	38.70	1724995.53	14384015.24	39°36'34.3879"N	80°41'58.9167"W	150.65	14.887	1.34	-1.31	-4.09	
2272.00	1.290	349.880	2263.65	-128.90	149.62	38.88	1724995.71	14384019.27	39°36'34.4278"N	80°41'58.9142"W	154.59	14.568	2.54	-2.45	-18.04	
2366.00	0.400	255.890	2357.64	-129.97	150.58	38.38	1724995.20	14384020.23	39°36'34.4373"N	80°41'58.9207"W	155.40	14.299	1.46	-0.95	-99.99	
2461.00	0.400	284.610	2452.64	-130.18	150.58	37.74	1724994.56	14384020.24	39°36'34.4373"N	80°41'58.9289"W	155.24	14.069	0.21	0.00	30.23	
2556.00	0.440	287.330	2547.64	-130.58	150.78	37.07	1724993.89	14384020.43	39°36'34.4392"N	80°41'58.9374"W	155.27	13.812	0.05	0.04	2.86	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (205 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	0.540	289.230	2641.63	-131.07	151.03	36.30	1724993.13	14384020.68	39°36'34.4418"N	80°41'58.9471"W	155.33	13.516	0.11	0.11	2.02	
2745.00	0.390	285.850	2736.63	-131.53	151.27	35.57	1724992.40	14384020.92	39°36'34.4441"N	80°41'58.9565"W	155.39	13.233	0.16	-0.16	-3.56	
2839.00	0.490	282.810	2830.63	-131.92	151.44	34.87	1724991.70	14384021.09	39°36'34.4459"N	80°41'58.9654"W	155.41	12.967	0.11	0.11	-3.23	
2934.00	0.540	289.930	2925.62	-132.42	151.69	34.05	1724990.88	14384021.34	39°36'34.4483"N	80°41'58.9759"W	155.46	12.653	0.09	0.05	7.49	
3028.00	0.690	281.890	3019.62	-132.99	151.95	33.08	1724989.91	14384021.60	39°36'34.4510"N	80°41'58.9882"W	155.51	12.283	0.18	0.16	-8.55	
3123.00	0.620	283.040	3114.61	-133.55	152.19	32.02	1724988.85	14384021.84	39°36'34.4533"N	80°41'59.0018"W	155.52	11.883	0.07	-0.07	1.21	
3218.00	0.650	280.130	3209.61	-134.09	152.40	30.99	1724987.82	14384022.05	39°36'34.4555"N	80°41'59.0150"W	155.52	11.495	0.05	0.03	-3.06	
3312.00	0.720	271.680	3303.60	-134.55	152.51	29.88	1724986.71	14384022.16	39°36'34.4566"N	80°41'59.0292"W	155.41	11.084	0.13	0.07	-8.99	
3407.00	0.770	276.830	3398.59	-135.04	152.60	28.65	1724985.48	14384022.25	39°36'34.4576"N	80°41'59.0449"W	155.27	10.632	0.09	0.05	5.42	
3501.00	0.710	275.880	3492.58	-135.56	152.74	27.44	1724984.27	14384022.39	39°36'34.4589"N	80°41'59.0603"W	155.18	10.185	0.07	-0.06	-1.01	
3596.00	0.630	279.630	3587.58	-136.06	152.88	26.34	1724983.17	14384022.53	39°36'34.4604"N	80°41'59.0744"W	155.14	9.775	0.10	-0.08	3.95	
3616.00	0.550	279.510	3607.58	-136.16	152.92	26.14	1724982.97	14384022.57	39°36'34.4608"N	80°41'59.0770"W	155.14	9.699	0.40	-0.40	-0.60	
3689.00	0.470	267.610	3680.57	-136.41	152.96	25.49	1724982.32	14384022.61	39°36'34.4612"N	80°41'59.0852"W	155.07	9.462	0.18	-0.11	-16.30	APS EM <8-3/4"> (3616')(3689'-6432')
3784.00	2.140	16.180	3775.55	-137.97	154.65	25.60	1724982.43	14384024.30	39°36'34.4779"N	80°41'59.0838"W	156.76	9.398	2.46	1.76	114.28	
3879.00	5.190	18.000	3870.35	-142.86	160.44	27.42	1724984.25	14384030.09	39°36'34.5351"N	80°41'59.0603"W	162.77	9.698	3.21	3.21	1.92	
3973.00	7.160	17.040	3963.80	-151.00	170.09	30.45	1724987.28	14384039.73	39°36'34.6303"N	80°41'59.0211"W	172.79	10.150	2.10	2.10	-1.02	
4068.00	6.670	12.900	4058.11	-160.47	181.13	33.42	1724990.24	14384050.77	39°36'34.7393"N	80°41'58.9827"W	184.18	10.453	0.74	-0.52	-4.36	
4162.00	6.200	3.780	4151.52	-169.79	191.51	34.97	1724991.80	14384061.15	39°36'34.8419"N	80°41'58.9625"W	194.68	10.348	1.20	-0.50	-9.70	
4257.00	7.690	16.310	4245.82	-179.72	202.73	37.09	1724993.92	14384072.36	39°36'34.9527"N	80°41'58.9348"W	206.10	10.369	2.23	1.57	13.19	
4351.00	8.960	14.160	4338.83	-190.99	215.87	40.65	1724997.47	14384085.49	39°36'35.0824"N	80°41'58.8888"W	219.66	10.665	1.39	1.35	-2.29	
4446.00	8.150	15.620	4432.77	-202.73	229.53	44.27	1725001.10	14384099.15	39°36'35.2173"N	80°41'58.8420"W	233.76	10.918	0.88	-0.85	1.54	
4541.00	9.790	14.940	4526.61	-214.98	243.82	48.17	1725004.99	14384113.43	39°36'35.3584"N	80°41'58.7916"W	248.53	11.176	1.73	1.73	-0.72	
4635.00	9.600	12.910	4619.26	-228.27	259.18	51.98	1725008.80	14384128.79	39°36'35.5101"N	80°41'58.7422"W	264.34	11.341	0.42	-0.20	-2.16	
4730.00	8.480	8.880	4713.08	-241.20	273.82	54.83	1725011.65	14384143.42	39°36'35.6547"N	80°41'58.7052"W	279.26	11.324	1.35	-1.18	-4.24	
4825.00	9.080	15.310	4806.97	-253.59	287.97	57.89	1725014.71	14384157.57	39°36'35.7945"N	80°41'58.6655"W	293.73	11.367	1.21	0.63	6.77	
4919.00	9.090	14.210	4899.79	-265.94	302.32	61.67	1725018.49	14384171.91	39°36'35.9362"N	80°41'58.6165"W	308.55	11.530	0.19	0.01	-1.17	
5014.00	7.800	10.590	4993.76	-277.83	315.94	64.70	1725021.52	14384185.52	39°36'36.0706"N	80°41'58.5773"W	322.49	11.574	1.47	-1.36	-3.81	
5108.00	8.900	17.760	5086.77	-289.21	329.13	68.09	1725024.90	14384198.71	39°36'36.2009"N	80°41'58.5334"W	336.10	11.689	1.61	1.17	7.63	
5203.00	8.890	12.830	5180.63	-301.34	343.29	71.96	1725028.77	14384212.86	39°36'36.3407"N	80°41'58.4833"W	350.75	11.839	0.80	-0.01	-5.19	
5297.00	8.110	9.980	5273.59	-313.32	356.90	74.73	1725031.54	14384226.47	39°36'36.4751"N	80°41'58.4475"W	364.64	11.825	0.94	-0.83	-3.03	

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Actual Wellpath Report

Lodge Unit 2H AWP Proj: 18626'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (205 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
5392.00	8.630	16.580	5367.58	-324.99	370.33	77.92	1725034.73	14384239.90	39°36'36.6078"N	80°41'58.4061"W	378.44	11.882	1.15	0.55	6.95	
5487.00	7.970	16.860	5461.59	-336.13	383.47	81.86	1725038.67	14384253.02	39°36'36.7375"N	80°41'58.3551"W	392.11	12.051	0.70	-0.69	0.29	
5581.00	6.660	13.420	5554.82	-346.02	395.00	85.02	1725041.83	14384264.56	39°36'36.8514"N	80°41'58.3143"W	404.05	12.147	1.47	-1.39	-3.66	
5676.00	7.900	22.310	5649.06	-355.59	406.40	88.78	1725045.58	14384275.95	39°36'36.9639"N	80°41'58.2658"W	415.99	12.322	1.76	1.31	9.36	
5771.00	7.740	21.190	5743.17	-365.39	418.41	93.57	1725050.37	14384287.95	39°36'37.0824"N	80°41'58.2041"W	428.74	12.606	0.23	-0.17	-1.18	
5866.00	9.800	19.200	5837.06	-376.64	432.01	98.54	1725055.34	14384301.55	39°36'37.2167"N	80°41'58.1400"W	443.11	12.849	2.19	2.17	-2.09	
5960.00	9.400	16.080	5929.74	-389.22	446.94	103.30	1725060.10	14384316.47	39°36'37.3641"N	80°41'58.0785"W	458.72	13.014	0.70	-0.43	-3.32	
6055.00	8.450	9.110	6023.59	-401.73	461.29	106.55	1725063.35	14384330.82	39°36'37.5058"N	80°41'58.0364"W	473.43	13.006	1.51	-1.00	-7.34	
6150.00	9.160	17.630	6117.48	-413.96	475.39	109.95	1725066.74	14384344.91	39°36'37.6450"N	80°41'57.9924"W	487.94	13.022	1.56	0.75	8.97	
6244.00	9.150	15.930	6210.28	-426.10	489.70	114.26	1725071.06	14384359.22	39°36'37.7864"N	80°41'57.9366"W	502.86	13.134	0.29	-0.01	-1.81	
6339.00	7.670	17.710	6304.25	-437.39	503.01	118.27	1725075.06	14384372.52	39°36'37.9177"N	80°41'57.8849"W	516.72	13.231	1.58	-1.56	1.87	
6432.00	8.420	14.420	6396.34	-448.05	515.51	121.85	1725078.64	14384385.02	39°36'38.0412"N	80°41'57.8386"W	529.72	13.299	0.95	0.81	-3.54	
6464.00	8.640	15.080	6427.99	-452.00	520.10	123.06	1725079.85	14384389.61	39°36'38.0865"N	80°41'57.8229"W	534.46	13.312	0.75	0.69	2.06	BH Lucida <8-1/2"> (6432')(6464'-18601')
6558.00	6.920	56.090	6521.19	-459.32	530.09	129.60	1725086.39	14384399.59	39°36'38.1850"N	80°41'57.7389"W	545.70	13.739	6.03	-1.83	43.63	
6653.00	6.400	102.770	6615.61	-458.02	532.11	139.52	1725096.31	14384401.61	39°36'38.2047"N	80°41'57.6121"W	550.10	14.692	5.57	-0.55	49.14	
6748.00	6.460	152.340	6710.08	-449.95	526.21	147.17	1725103.95	14384395.71	39°36'38.1460"N	80°41'57.5146"W	546.40	15.625	5.67	0.06	52.18	
6842.00	13.300	151.490	6802.63	-434.04	512.00	154.80	1725111.57	14384381.51	39°36'38.0054"N	80°41'57.4178"W	534.89	16.822	7.28	7.28	-0.90	
6936.00	20.430	150.970	6892.53	-407.19	488.13	167.93	1725124.71	14384357.64	39°36'37.7690"N	80°41'57.2509"W	516.21	18.985	7.59	7.59	-0.55	
7031.00	28.180	153.920	6979.05	-368.55	453.43	185.87	1725142.64	14384322.96	39°36'37.4255"N	80°41'57.0232"W	490.04	22.290	8.26	8.16	3.11	
7044.00†	29.200	154.090	6990.45	-362.36	447.82	188.60	1725145.37	14384317.35	39°36'37.3699"N	80°41'56.9885"W	485.91	22.839	7.87	7.85	1.31	Sycamore: 7044' MD
7125.00	35.560	154.950	7058.82	-319.28	408.67	207.23	1725163.99	14384278.22	39°36'36.9824"N	80°41'56.7522"W	458.21	26.889	7.87	7.85	1.06	
7199.00†	41.814	155.805	7116.56	-273.27	366.63	226.47	1725183.22	14384236.20	39°36'36.5663"N	80°41'56.5082"W	430.94	31.704	8.48	8.45	1.16	Middlesex: 7199' MD
7220.00	43.590	156.010	7131.99	-259.09	353.63	232.28	1725189.03	14384223.20	39°36'36.4376"N	80°41'56.4345"W	423.10	33.299	8.48	8.46	0.98	
7315.00	51.480	159.120	7196.09	-189.20	288.87	258.89	1725215.63	14384158.47	39°36'35.7967"N	80°41'56.0973"W	387.91	41.867	8.65	8.31	3.27	
7343.00†	53.609	160.001	7213.11	-166.99	268.05	266.65	1725223.38	14384137.65	39°36'35.5907"N	80°41'55.9991"W	378.09	44.850	8.00	7.60	3.14	Burkett: 7343' MD
7391.00†	57.272	161.404	7240.34	-127.47	230.74	279.70	1725236.43	14384100.36	39°36'35.2215"N	80°41'55.8339"W	362.59	50.479	8.00	7.63	2.92	Tully: 7391' MD
7409.00	58.650	161.900	7249.89	-112.21	216.26	284.50	1725241.23	14384085.88	39°36'35.0782"N	80°41'55.7732"W	357.37	52.760	8.00	7.65	2.76	
7504.00	66.390	162.130	7293.69	-28.00	136.16	310.50	1725267.22	14384005.81	39°36'34.2857"N	80°41'55.4444"W	339.04	66.322	8.15	8.15	0.24	
7598.00	74.650	161.950	7325.01	60.53	51.93	337.81	1725294.51	14383921.62	39°36'33.4524"N	80°41'55.0992"W	341.78	81.261	8.79	8.79	-0.19	
7620.00†	76.336	161.399	7330.52	81.82	31.71	344.50	1725301.21	14383901.41	39°36'33.2523"N	80°41'55.0145"W	345.96	84.741	8.04	7.67	-2.51	Marcellus POE: 7620' MD

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Slot	Slot C		

WELLPATH DATA (205 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
7693.00	81.940	159.620	7344.27	153.48	-35.84	368.42	1725325.12	14383833.89	39°36'32.5839"N	80°41'54.7117"W	370.16	95.556	8.04	7.68	-2.44	
7787.00	86.920	159.870	7353.39	246.98	-123.58	400.80	1725357.48	14383746.18	39°36'31.7157"N	80°41'54.3018"W	419.42	107.137	5.30	5.30	0.27	
7882.00	89.910	161.440	7356.02	341.93	-213.17	432.25	1725388.92	14383656.62	39°36'30.8292"N	80°41'53.9038"W	481.96	116.251	3.55	3.15	1.65	
7976.00	90.090	161.190	7356.02	435.93	-302.22	462.37	1725419.03	14383567.61	39°36'29.9482"N	80°41'53.5229"W	552.38	123.170	0.33	0.19	-0.27	
8071.00	90.280	161.270	7355.71	530.93	-392.16	492.94	1725449.58	14383477.70	39°36'29.0582"N	80°41'53.1362"W	629.90	128.505	0.22	0.20	0.08	
8165.00	89.660	160.860	7355.76	624.93	-481.08	523.44	1725480.07	14383388.82	39°36'28.1785"N	80°41'52.7503"W	710.93	132.585	0.79	-0.66	-0.44	
8259.00	89.850	161.160	7356.17	718.93	-569.96	554.03	1725510.65	14383299.97	39°36'27.2990"N	80°41'52.3633"W	794.86	135.812	0.38	0.20	0.32	
8354.00	89.850	160.330	7356.41	813.92	-659.65	585.35	1725541.96	14383210.32	39°36'26.4116"N	80°41'51.9669"W	881.91	138.415	0.87	0.00	-0.87	
8448.00	90.770	163.720	7355.91	907.89	-749.04	614.36	1725570.96	14383120.96	39°36'25.5271"N	80°41'51.6002"W	968.76	140.642	3.74	0.98	3.61	
8542.00	89.320	160.690	7355.83	1001.86	-838.53	643.08	1725599.67	14383031.51	39°36'24.6417"N	80°41'51.2371"W	1056.73	142.515	3.57	-1.54	-3.22	
8637.00	89.690	160.540	7356.65	1096.86	-928.14	674.61	1725631.19	14382941.93	39°36'23.7550"N	80°41'50.8381"W	1147.41	143.989	0.42	0.39	-0.16	
8731.00	90.340	160.930	7356.63	1190.85	-1016.88	705.63	1725662.19	14382853.23	39°36'22.8770"N	80°41'50.4456"W	1237.72	145.243	0.81	0.69	0.41	
8826.00	90.460	159.940	7355.97	1285.84	-1106.39	737.44	1725693.99	14382763.76	39°36'21.9913"N	80°41'50.0431"W	1329.63	146.316	1.05	0.13	-1.04	
8920.00	90.490	161.200	7355.19	1379.84	-1195.03	768.70	1725725.24	14382675.15	39°36'21.1142"N	80°41'49.6474"W	1420.92	147.249	1.34	0.03	1.34	
9015.00	90.400	160.680	7354.45	1474.83	-1284.82	799.73	1725756.25	14382585.40	39°36'20.2258"N	80°41'49.2549"W	1513.38	148.100	0.56	-0.09	-0.55	
9109.00	90.650	161.020	7353.59	1568.83	-1373.61	830.56	1725787.07	14382496.64	39°36'19.3472"N	80°41'48.8648"W	1605.19	148.841	0.45	0.27	0.36	
9204.00	90.220	161.320	7352.87	1663.82	-1463.53	861.22	1725817.72	14382406.76	39°36'18.4575"N	80°41'48.4769"W	1698.12	149.525	0.55	-0.45	0.32	
9299.00	90.180	160.910	7352.53	1758.82	-1553.41	891.97	1725848.46	14382316.91	39°36'17.5682"N	80°41'48.0880"W	1791.29	150.136	0.43	-0.04	-0.43	
9393.00	89.970	159.140	7352.41	1852.80	-1641.75	924.08	1725880.56	14382228.60	39°36'16.6940"N	80°41'47.6816"W	1883.95	150.626	1.90	-0.22	-1.88	
9488.00	89.880	160.000	7352.54	1947.77	-1730.78	957.24	1725913.70	14382139.61	39°36'15.8131"N	80°41'47.2617"W	1977.85	151.054	0.91	-0.09	0.91	
9677.00	90.250	158.960	7352.32	2136.70	-1907.78	1023.49	1725979.93	14381962.68	39°36'14.0615"N	80°41'46.4230"W	2164.99	151.787	0.58	0.20	-0.55	
9771.00	89.850	158.980	7352.24	2230.63	-1995.52	1057.22	1726013.65	14381874.97	39°36'13.1932"N	80°41'45.9958"W	2258.28	152.085	0.43	-0.43	0.02	
9866.00	89.570	158.930	7352.72	2325.57	-2084.18	1091.34	1726047.75	14381786.35	39°36'12.3158"N	80°41'45.5638"W	2352.62	152.362	0.30	-0.29	-0.05	
9961.00	89.750	160.360	7353.28	2420.53	-2173.25	1124.38	1726080.78	14381697.32	39°36'11.4345"N	80°41'45.1455"W	2446.88	152.644	1.52	0.19	1.51	
10056.00	90.150	160.470	7353.37	2515.53	-2262.75	1156.23	1726112.61	14381607.85	39°36'10.5489"N	80°41'44.7426"W	2541.04	152.934	0.44	0.42	0.12	
10151.00	90.030	160.920	7353.22	2610.53	-2352.41	1187.63	1726144.00	14381518.23	39°36'9.6617"N	80°41'44.3452"W	2635.20	153.213	0.49	-0.13	0.47	
10246.00	90.180	160.940	7353.04	2705.53	-2442.20	1218.67	1726175.03	14381428.48	39°36'8.7733"N	80°41'43.9526"W	2729.37	153.481	0.16	0.16	0.02	
10341.00	89.940	160.790	7352.94	2800.53	-2531.95	1249.81	1726206.16	14381338.76	39°36'7.8852"N	80°41'43.5586"W	2823.61	153.728	0.30	-0.25	-0.16	
10436.00	90.120	160.530	7352.89	2895.52	-2621.59	1281.27	1726237.61	14381249.16	39°36'6.9983"N	80°41'43.1606"W	2917.94	153.953	0.33	0.19	-0.27	
10531.00	90.060	160.980	7352.74	2990.52	-2711.28	1312.59	1726268.91	14381159.50	39°36'6.1108"N	80°41'42.7644"W	3012.29	154.167	0.48	-0.06	0.47	

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10626.00	90.310	161.000	7352.44	3085.52	-2801.09	1343.53	1726299.84	14381069.72	39°36'5.2221"N	80°41'42.3730"W	3106.64	154.376	0.26	0.26	0.02	
10721.00	90.090	162.000	7352.11	3180.52	-2891.18	1373.67	1726329.97	14380979.67	39°36'4.3307"N	80°41'41.9918"W	3200.92	154.586	1.08	-0.23	1.05	
10816.00	90.150	161.860	7351.91	3275.50	-2981.50	1403.14	1726359.43	14380889.39	39°36'3.4371"N	80°41'41.6193"W	3295.17	154.798	0.16	0.06	-0.15	
10910.00	90.180	161.610	7351.64	3369.50	-3070.76	1432.60	1726388.88	14380800.16	39°36'2.5539"N	80°41'41.2468"W	3388.50	154.990	0.27	0.03	-0.27	
11004.00	90.250	161.750	7351.28	3463.49	-3160.00	1462.15	1726418.41	14380710.96	39°36'1.6710"N	80°41'40.8732"W	3481.87	155.170	0.17	0.07	0.15	
11099.00	90.150	161.830	7350.95	3558.48	-3250.24	1491.83	1726448.09	14380620.75	39°36'0.7782"N	80°41'40.4979"W	3576.26	155.345	0.13	-0.11	0.08	
11194.00	89.850	161.660	7350.95	3653.48	-3340.46	1521.59	1726477.83	14380530.57	39°35'59.8855"N	80°41'40.1216"W	3670.68	155.511	0.36	-0.32	-0.18	
11288.00	90.090	161.600	7351.00	3747.47	-3429.67	1551.22	1726507.45	14380441.39	39°35'59.0028"N	80°41'39.7470"W	3764.16	155.663	0.26	0.26	-0.06	
11383.00	90.090	162.050	7350.85	3842.46	-3519.93	1580.85	1726537.07	14380351.17	39°35'58.1098"N	80°41'39.3724"W	3858.62	155.814	0.47	0.00	0.47	
11477.00	90.060	161.770	7350.73	3936.45	-3609.28	1610.04	1726566.24	14380261.85	39°35'57.2257"N	80°41'39.0034"W	3952.10	155.959	0.30	-0.03	-0.30	
11572.00	90.180	162.140	7350.53	4031.44	-3699.61	1639.46	1726595.66	14380171.56	39°35'56.3320"N	80°41'38.6314"W	4046.60	156.100	0.41	0.13	0.39	
11667.00	89.480	161.000	7350.81	4126.43	-3789.73	1669.50	1726625.68	14380081.47	39°35'55.4403"N	80°41'38.2517"W	4141.17	156.225	1.41	-0.74	-1.20	
11761.00	90.370	161.900	7350.93	4220.43	-3878.85	1699.40	1726655.57	14379992.39	39°35'54.5586"N	80°41'37.8735"W	4234.79	156.341	1.35	0.95	0.96	
11856.00	90.250	161.400	7350.42	4315.42	-3969.01	1729.31	1726685.47	14379902.26	39°35'53.6664"N	80°41'37.4954"W	4329.39	156.457	0.54	-0.13	-0.53	
11951.00	90.120	161.700	7350.11	4410.42	-4059.13	1759.37	1726715.52	14379812.18	39°35'52.7748"N	80°41'37.1153"W	4424.02	156.566	0.34	-0.14	0.32	
12045.00	90.030	161.790	7349.99	4504.41	-4148.40	1788.82	1726744.95	14379722.94	39°35'51.8915"N	80°41'36.7430"W	4517.64	156.674	0.14	-0.10	0.10	
12140.00	90.220	161.440	7349.78	4599.41	-4238.55	1818.78	1726774.91	14379632.83	39°35'50.9995"N	80°41'36.3642"W	4612.30	156.776	0.42	0.20	-0.37	
12235.00	90.680	163.210	7349.04	4694.38	-4329.06	1847.62	1726803.74	14379542.36	39°35'50.1041"N	80°41'35.9997"W	4706.85	156.887	1.92	0.48	1.86	
12330.00	89.630	161.010	7348.78	4789.35	-4419.46	1876.80	1726832.91	14379451.99	39°35'49.2096"N	80°41'35.6308"W	4801.46	156.991	2.57	-1.11	-2.32	
12424.00	89.970	161.550	7349.11	4883.35	-4508.48	1906.97	1726863.06	14379363.00	39°35'48.3288"N	80°41'35.2493"W	4895.20	157.073	0.68	0.36	0.57	
12519.00	90.120	162.150	7349.03	4978.34	-4598.76	1936.57	1726892.64	14379272.76	39°35'47.4356"N	80°41'34.8752"W	4989.88	157.164	0.65	0.16	0.63	
12613.00	89.970	161.580	7348.96	5072.33	-4688.09	1965.82	1726921.89	14379183.47	39°35'46.5517"N	80°41'34.5054"W	5083.56	157.251	0.63	-0.16	-0.61	
12708.00	90.310	161.960	7348.73	5167.32	-4778.32	1995.54	1726951.60	14379093.27	39°35'45.6590"N	80°41'34.1297"W	5178.27	157.333	0.54	0.36	0.40	
12802.00	90.340	162.010	7348.19	5261.31	-4867.71	2024.61	1726980.66	14379003.92	39°35'44.7745"N	80°41'33.7622"W	5271.97	157.416	0.06	0.03	0.05	
12897.00	90.370	162.140	7347.61	5356.29	-4958.10	2053.85	1727009.88	14378913.57	39°35'43.8802"N	80°41'33.3927"W	5366.66	157.499	0.14	0.03	0.14	
12991.00	90.220	162.170	7347.12	5450.28	-5047.57	2082.66	1727038.68	14378824.13	39°35'42.9950"N	80°41'33.0286"W	5460.35	157.579	0.16	-0.16	0.03	
13086.00	90.250	161.580	7346.73	5545.26	-5137.86	2112.21	1727068.22	14378733.88	39°35'42.1017"N	80°41'32.6551"W	5555.09	157.652	0.62	0.03	-0.62	
13181.00	90.430	161.840	7346.17	5640.26	-5228.06	2142.02	1727098.02	14378643.71	39°35'41.2092"N	80°41'32.2782"W	5649.85	157.720	0.33	0.19	0.27	
13370.00	90.340	162.100	7344.90	5829.23	-5407.77	2200.52	1727156.49	14378464.07	39°35'39.4311"N	80°41'31.5388"W	5838.35	157.858	0.15	-0.05	0.14	
13464.00	90.220	161.380	7344.44	5923.22	-5497.04	2229.97	1727185.93	14378374.84	39°35'38.5479"N	80°41'31.1665"W	5932.13	157.919	0.78	-0.13	-0.77	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (205 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
13559.00	90.400	161.780	7343.93	6018.21	-5587.17	2259.99	1727215.94	14378284.74	39°35'37.6561"N	80°41'30.7870"W	6026.94	157.977	0.46	0.19	0.42	
13654.00	90.310	162.020	7343.34	6113.20	-5677.46	2289.50	1727245.44	14378194.48	39°35'36.7627"N	80°41'30.4139"W	6121.72	158.038	0.27	-0.09	0.25	
13748.00	89.380	161.480	7343.59	6207.19	-5766.73	2318.94	1727274.87	14378105.25	39°35'35.8794"N	80°41'30.0418"W	6215.52	158.094	1.14	-0.99	-0.57	
13843.00	90.490	161.810	7343.70	6302.19	-5856.90	2348.86	1727304.77	14378015.12	39°35'34.9873"N	80°41'29.6636"W	6310.34	158.147	1.22	1.17	0.35	
13938.00	89.910	161.370	7343.37	6397.18	-5947.04	2378.86	1727334.76	14377925.02	39°35'34.0954"N	80°41'29.2844"W	6405.17	158.198	0.77	-0.61	-0.46	
14032.00	90.150	161.640	7343.32	6491.18	-6036.18	2408.68	1727364.57	14377835.91	39°35'33.2134"N	80°41'28.9074"W	6499.02	158.246	0.38	0.26	0.29	
14127.00	90.000	159.950	7343.19	6586.17	-6125.89	2439.93	1727395.80	14377746.23	39°35'32.3257"N	80°41'28.5121"W	6593.92	158.283	1.79	-0.16	-1.78	
14221.00	90.000	160.800	7343.19	6680.17	-6214.43	2471.50	1727427.36	14377657.73	39°35'31.4496"N	80°41'28.1128"W	6687.86	158.312	0.90	0.00	0.90	
14316.00	89.940	160.850	7343.24	6775.17	-6304.16	2502.70	1727458.55	14377568.03	39°35'30.5617"N	80°41'27.7181"W	6782.77	158.347	0.08	-0.06	0.05	
14410.00	89.970	160.680	7343.32	6869.16	-6392.91	2533.67	1727489.51	14377479.32	39°35'29.6835"N	80°41'27.3265"W	6876.68	158.380	0.18	0.03	-0.18	
14505.00	89.910	160.720	7343.42	6964.16	-6482.57	2565.07	1727520.90	14377389.69	39°35'28.7963"N	80°41'26.9293"W	6971.61	158.412	0.08	-0.06	0.04	
14599.00	89.850	160.380	7343.61	7058.16	-6571.21	2596.37	1727552.18	14377301.09	39°35'27.9192"N	80°41'26.5334"W	7065.54	158.440	0.37	-0.06	-0.36	
14694.00	89.970	160.360	7343.76	7153.15	-6660.69	2628.28	1727584.09	14377211.65	39°35'27.0338"N	80°41'26.1297"W	7160.49	158.466	0.13	0.13	-0.02	
14789.00	90.030	160.760	7343.76	7248.15	-6750.27	2659.90	1727615.69	14377122.10	39°35'26.1474"N	80°41'25.7298"W	7255.43	158.493	0.43	0.06	0.42	
14883.00	90.120	160.580	7343.64	7342.15	-6838.97	2691.01	1727646.79	14377033.43	39°35'25.2697"N	80°41'25.3362"W	7349.36	158.521	0.21	0.10	-0.19	
14978.00	89.910	160.810	7343.62	7437.14	-6928.63	2722.42	1727678.19	14376943.81	39°35'24.3825"N	80°41'24.9390"W	7444.29	158.549	0.33	-0.22	0.24	
15072.00	90.060	160.560	7343.64	7531.14	-7017.34	2753.51	1727709.27	14376855.14	39°35'23.5047"N	80°41'24.5458"W	7538.23	158.576	0.31	0.16	-0.27	
15167.00	89.910	160.550	7343.66	7626.14	-7106.92	2785.14	1727740.88	14376765.59	39°35'22.6183"N	80°41'24.1458"W	7633.17	158.600	0.16	-0.16	-0.01	
15262.00	90.000	160.570	7343.74	7721.13	-7196.50	2816.76	1727772.49	14376676.04	39°35'21.7319"N	80°41'23.7458"W	7728.12	158.624	0.10	0.09	0.02	
15356.00	89.970	160.460	7343.76	7815.13	-7285.12	2848.11	1727803.83	14376587.46	39°35'20.8550"N	80°41'23.3493"W	7822.07	158.647	0.12	-0.03	-0.12	
15451.00	89.910	160.660	7343.86	7910.13	-7374.70	2879.73	1727835.43	14376497.91	39°35'19.9685"N	80°41'22.9494"W	7917.01	158.670	0.22	-0.06	0.21	
15545.00	90.120	160.520	7343.84	8004.12	-7463.36	2910.97	1727866.66	14376409.29	39°35'19.0912"N	80°41'22.5543"W	8010.96	158.693	0.27	0.22	-0.15	
15640.00	90.150	160.390	7343.61	8099.12	-7552.89	2942.75	1727898.43	14376319.80	39°35'18.2054"N	80°41'22.1523"W	8105.92	158.713	0.14	0.03	-0.14	
15734.00	90.220	160.400	7343.31	8193.11	-7641.44	2974.29	1727929.96	14376231.28	39°35'17.3291"N	80°41'21.7533"W	8199.88	158.732	0.08	0.07	0.01	
15829.00	90.150	160.640	7343.00	8288.11	-7731.00	3005.97	1727961.62	14376141.76	39°35'16.4429"N	80°41'21.3526"W	8294.83	158.753	0.26	-0.07	0.25	
15923.00	90.150	160.510	7342.76	8382.10	-7819.65	3037.23	1727992.87	14376053.14	39°35'15.5657"N	80°41'20.9572"W	8388.78	158.773	0.14	0.00	-0.14	
16018.00	90.120	160.730	7342.53	8477.10	-7909.27	3068.75	1728024.39	14375963.56	39°35'14.6789"N	80°41'20.5585"W	8483.73	158.794	0.23	-0.03	0.23	
16112.00	90.220	160.950	7342.26	8571.10	-7998.06	3099.61	1728055.22	14375874.80	39°35'13.8003"N	80°41'20.1684"W	8577.67	158.816	0.26	0.11	0.23	
16207.00	90.090	160.400	7342.00	8666.09	-8087.70	3131.04	1728086.65	14375785.19	39°35'12.9133"N	80°41'19.7708"W	8672.62	158.837	0.59	-0.14	-0.58	
16302.00	90.220	160.360	7341.74	8761.09	-8177.19	3162.94	1728118.54	14375695.74	39°35'12.0278"N	80°41'19.3674"W	8767.59	158.853	0.14	0.14	-0.04	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

WELLPATH DATA (205 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
16396.00	89.660	160.020	7341.84	8855.08	-8265.62	3194.80	1728150.38	14375607.34	39°35'11.1527"N	80°41'18.9644"W	8861.56	158.868	0.70	-0.60	-0.36	
16491.00	89.970	160.440	7342.15	8950.07	-8355.02	3226.93	1728182.50	14375517.98	39°35'10.2680"N	80°41'18.5579"W	8956.54	158.882	0.55	0.33	0.44	
16586.00	89.940	160.450	7342.22	9045.06	-8444.55	3258.73	1728214.29	14375428.49	39°35'9.3822"N	80°41'18.1557"W	9051.50	158.899	0.03	-0.03	0.01	
16680.00	90.000	160.730	7342.27	9139.06	-8533.20	3289.97	1728245.51	14375339.87	39°35'8.5049"N	80°41'17.7607"W	9145.46	158.916	0.30	0.06	0.30	
16775.00	90.000	160.340	7342.27	9234.05	-8622.77	3321.62	1728277.16	14375250.33	39°35'7.6186"N	80°41'17.3603"W	9240.42	158.933	0.41	0.00	-0.41	
16869.00	89.850	160.610	7342.39	9328.05	-8711.37	3353.04	1728308.56	14375161.77	39°35'6.7419"N	80°41'16.9630"W	9334.39	158.948	0.33	-0.16	0.29	
16964.00	89.940	160.500	7342.57	9423.04	-8800.95	3384.67	1728340.17	14375072.23	39°35'5.8555"N	80°41'16.5630"W	9429.35	158.964	0.15	0.09	-0.12	
17058.00	89.880	160.590	7342.72	9517.04	-8889.58	3415.97	1728371.47	14374983.63	39°35'4.9784"N	80°41'16.1671"W	9523.32	158.980	0.12	-0.06	0.10	
17153.00	89.940	160.520	7342.86	9612.04	-8979.16	3447.60	1728403.08	14374894.08	39°35'4.0920"N	80°41'15.7671"W	9618.28	158.995	0.10	0.06	-0.07	
17247.00	90.000	160.610	7342.91	9706.03	-9067.81	3478.88	1728434.35	14374805.48	39°35'3.2148"N	80°41'15.3716"W	9712.24	159.011	0.12	0.06	0.10	
17342.00	90.120	160.450	7342.81	9801.03	-9157.37	3510.54	1728466.00	14374715.94	39°35'2.3286"N	80°41'14.9711"W	9807.21	159.025	0.21	0.13	-0.17	
17436.00	90.000	160.760	7342.72	9895.03	-9246.04	3541.76	1728497.20	14374627.31	39°35'1.4512"N	80°41'14.5764"W	9901.18	159.040	0.35	-0.13	0.33	
17531.00	90.090	160.550	7342.64	9990.02	-9335.68	3573.23	1728528.66	14374537.71	39°35'0.5642"N	80°41'14.1784"W	9996.14	159.056	0.24	0.09	-0.22	
17625.00	90.000	160.840	7342.57	10084.02	-9424.39	3604.30	1728559.72	14374449.03	39°34'59.6864"N	80°41'13.7855"W	10090.10	159.071	0.32	-0.10	0.31	
17720.00	90.090	160.500	7342.49	10179.02	-9514.03	3635.75	1728591.16	14374359.42	39°34'58.7993"N	80°41'13.3878"W	10185.06	159.086	0.37	0.09	-0.36	
17910.00	90.030	161.470	7342.29	10369.02	-9693.66	3697.65	1728653.04	14374179.86	39°34'57.0219"N	80°41'12.6052"W	10374.96	159.121	0.51	-0.03	0.51	
18004.00	89.970	161.350	7342.29	10463.01	-9782.76	3727.62	1728682.99	14374090.80	39°34'56.1403"N	80°41'12.2264"W	10468.88	159.141	0.14	-0.06	-0.13	
18099.00	90.000	161.490	7342.32	10558.01	-9872.81	3757.89	1728713.25	14374000.79	39°34'55.2493"N	80°41'11.8438"W	10563.81	159.162	0.15	0.03	0.15	
18193.00	90.120	161.580	7342.22	10652.01	-9961.97	3787.66	1728743.01	14373911.66	39°34'54.3671"N	80°41'11.4676"W	10657.73	159.183	0.16	0.13	0.10	
18287.00	90.060	161.820	7342.07	10746.00	-10051.21	3817.18	1728772.51	14373822.45	39°34'53.4840"N	80°41'11.0946"W	10751.64	159.205	0.26	-0.06	0.26	
18382.00	90.120	161.690	7341.92	10841.00	-10141.44	3846.92	1728802.24	14373732.27	39°34'52.5913"N	80°41'10.7188"W	10846.55	159.227	0.15	0.06	-0.14	
18476.00	90.060	161.980	7341.78	10934.99	-10230.75	3876.22	1728831.54	14373642.99	39°34'51.7076"N	80°41'10.3485"W	10940.45	159.249	0.32	-0.06	0.31	
18571.00	90.150	161.640	7341.60	11029.98	-10321.01	3905.88	1728861.18	14373552.77	39°34'50.8146"N	80°41'9.9737"W	11035.35	159.271	0.37	0.09	-0.36	
18601.00	90.060	161.840	7341.55	11059.98	-10349.49	3915.28	1728870.58	14373524.29	39°34'50.5327"N	80°41'9.8550"W	11065.33	159.278	0.73	-0.30	0.67	
18626.00‡	90.060	161.840	7341.52	11084.97	-10373.25	3923.07	1728878.37	14373500.55	39°34'50.2977"N	80°41'9.7565"W	11090.30	159.284	0.00	0.00	0.00	Projected MD at TD: 18626'

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Actual Wellpath Report

Lodge Unit 2H AWP Proj: 18626'

REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Lodge Unit 2H
Field	Wetzel	UWI	47-103-03791-0000
Facility	Harbour Pad	Wellbore	Lodge Unit 2H AWB
Slot	Slot C		

DIRECTIONAL DIFFICULTY INDEX

Directional Difficulty Index @ TD = **6.83**

Reference: IADC/SPE 59196

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

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 2H AWB Ref Wellpath: Lodge Unit 2H AWP Proj: 18626'

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	-0.34	0.02
17 1/2in Open Hole	130.00	504.00	374.00	130.00	503.99	-0.34	0.02	-2.30	-0.25
13 3/8in Casing Surface	30.00	484.00	454.00	30.00	483.99	0.00	0.00	-2.26	-0.27
12 1/4in Open Hole	504.00	3691.00	3187.00	503.99	3682.57	-2.30	-0.25	152.96	25.48
9 5/8in Casing Intermediate	30.00	3661.00	3631.00	30.00	3652.57	0.00	0.00	152.96	25.73
8 3/4in Open Hole	3691.00	6506.00	2815.00	3682.57	6469.58	152.96	25.48	525.47	125.27
8 1/2in Open Hole	6506.00	18626.00	12120.00	6469.58	7341.52	525.47	125.27	-10373.25	3923.07
5 1/2in Casing Production	30.00	18606.00	18576.00	30.00	7341.54	0.00	0.00	-10354.25	3916.84

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Lodge Unit 2H POE Rev-1	7300.50	59.48	339.82	**1725296.53**	**14383929.17**	39°36'33.5270"N	80°41'55.0731"W	point
Lodge Unit 2H POE Rev-2	7310.00	59.48	339.82	**1725296.53**	**14383929.17**	39°36'33.5270"N	80°41'55.0731"W	point
Lodge Unit 2H POE Rev-3	7325.00	59.48	339.82	**1725296.53**	**14383929.17**	39°36'33.5270"N	80°41'55.0731"W	point
Lodge Unit 2H BHL Rev-1	7325.50	-10405.17	3930.34	**1728885.63**	**14373468.64**	39°34'49.9820"N	80°41'9.6651"W	point
Lodge Unit 2H BHL Rev-2	7338.00	-10405.17	3930.34	**1728885.63**	**14373468.64**	39°34'49.9820"N	80°41'9.6651"W	point
Lodge Unit 2H LP Rev-2	7338.00	-128.08	404.18	**1725360.86**	**14383741.68**	39°36'31.6711"N	80°41'54.2588"W	point
Lodge Unit 2H BHL Rev-3	7351.00	-10405.17	3930.34	**1728885.63**	**14373468.64**	39°34'49.9820"N	80°41'9.6651"W	point
Lodge Unit 2H LP Rev-3	7351.00	-121.39	401.88	**1725358.56**	**14383748.37**	39°36'31.7373"N	80°41'54.2879"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 2H 50' L/R Hard Line	7500.00	-5172.84	2135.08	1727091.08	14378698.90	39°35'41.7551"N	80°41'32.3644"W	rectangle
	2D Rectangle: 11063.5 x 100.							

REFERENCE WELLPATH IDENTIFICATION			
Operator	**ANTERO RESOURCES CORPORATION**	Well	**Lodge Unit 2H**
Field	**Wetzel**	UWI	**47-103-03791-0000**
Facility	**Harbour Pad**	Wellbore	**Lodge Unit 2H AWB**
Slot	**Slot C**		

WELLPATH COMPOSITION - Ref Wellbore: Lodge Unit 2H AWB Ref Wellpath: Lodge Unit 2H AWP Proj: 18626'

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 2H AWB	2026-01-14
400.00	565.00	Gyrodata 2015 - GC+WIR+DPIPE	02_Gyrodata MS Gyro <12-1/4"> (400')(500'-565')	Lodge Unit 2H AWB	2026-01-15
565.00	3616.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03_APS EM <12-1/4"> (565')(594'-3616')	Lodge Unit 2H AWB	2026-01-14
3616.00	6432.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04_APS EM <8-3/4"> (3616')(3689'-6432')	Lodge Unit 2H AWB	2026-01-24
6432.00	18626.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05_BH Lucida <8-1/2"> (6432')(6464'-18601')	Lodge Unit 2H AWB	2026-01-24

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REFERENCE WELLPATH IDENTIFICATION			
Operator	**ANTERO RESOURCES CORPORATION**	Well	**Lodge Unit 2H**
Field	**Wetzel**	UWI	**47-103-03791-0000**
Facility	**Harbour Pad**	Wellbore	**Lodge Unit 2H AWB**
Slot	**Slot C**		

COMMENTS

Wellpath general comments

API: 47-103-03791-0000
BH Job #: 112930783
Rig: H&P 519
Duration: 1/26/2026-1/29/2026
Gyrodata MS Gyro <17-1/2"> (100'-400')
Gyrodata MS Gyro <12-1/4"> (400')(500'-565')
APS EM <12-1/4"> (565')(594'-3616')
APS EM <8-3/4"> (3616')(3689'-6432')
BH Lucida <8-1/2"> (6432')(6464'-18601')
Sycamore: 7044' MD
Middlesex: 7199' MD
Burkett: 7343' MD
Tully: 7391' MD
Marcellus POE: 7620' MD
Projected MD at TD: 18626'

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