



ANTERO RESOURCES CORPORATION



Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Lemley Pad

Slot: Slot G
 Well: Peter Unit 4H
 Wellbore: Peter Unit 4H PWB

Easting (ft)

Scale 1 inch = 1500

Plot reference wellpath is Peter Unit 4H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1334 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot G): -1304 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: mhayyar on 2023-01-06; Database: WA_MPL_EASTERHAUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Lemley Pad	1730799.540	14280893.670	39°19'34.6023"N	80°40'49.4048"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot G	-69.93	-1.59	1730797.850	14280833.760
			Latitude	Longitude
			39°19'34.0100"N	80°40'49.4290"W
Comment: Peter Unit 4H				
H&P 531 (RKB) to Ground level (At Slot: Slot G)			30ft	
Mean Sea Level to Ground level (At Slot: Slot G)			-1304ft	
H&P 531 (RKB) to Mean Sea Level			1334ft	

Gyrodata MS Gyro <17-1/2"> (100'-921') : 0.20° Inc, 100.00ft MD, 100.00ft TVD, -0.02ft VS

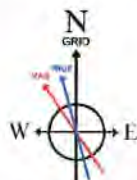
Well Data			
Slot	Well	Wellbore	Wellpath
Slot G	Peter Unit 4H	Peter Unit 4H AWB	Peter Unit 4H AWP Proj: 16398*
Slot G	Peter Unit 4H	Peter Unit 4H PWB	Peter Unit 4H PWP Rev-B.0

APS EM <12-1/4"> (921')(950'-3436') : 0.48° Inc, 950.00ft MD, 949.96ft TVD, -7.50ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tile On	3436.00	28.050	61.780	3243.19	138.57	873.86	1.97	-144.41
Proj. to Bottom	3511.00	28.050	61.780	3309.38	155.24	904.63	0.00	-138.40
Drill Out	3591.00	28.050	61.780	3379.98	173.03	937.78	0.00	-131.99
End of 3D Arc	3975.74	25.599	78.003	3723.76	233.17	1099.03	2.00	-125.85
Curve KOP	7074.05	25.599	78.003	6517.93	511.44	2408.49	0.00	-275.37
POE	7996.10	68.903	341.590	7196.00	1035.42	2477.27	8.00	200.07
Landing Pt.	8257.31	89.800	341.590	7244.00	1277.64	2396.65	8.00	455.96
BHL	16401.00	89.800	341.590	7272.43	9004.51	-175.20	0.00	8598.99

APS EM <8-3/4"> (3436')(3507'-6820') : 27.29° Inc, 3507.00ft MD, 3306.07ft TVD, -138.58ft VS

API: 47-017-06936-0000
 BH Job #: 111534743
 Rig: H&P 531
 Duration: 12/26/2022-12/29/2022



User specified (HDGM) Dip: 66.17° Field: 51871 nT
 Magnetic North is 7.95 degrees West of True North (at 12/23/2022)
 Grid North is 0.20 degrees East of True North
 To correct azimuth from True to Grid subtract 0.20 degrees
 To correct azimuth from Magnetic to Grid subtract 8.15 degrees

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BH AT Curve <8-1/2"> (6820')(6940'-16373') : 22.81° Inc, 6940.00ft MD, 6392.77ft TVD, -274.78ft VS

Marcellus POE: 8025' MD : 70.65° Inc, 8025.00ft MD, 7200.59ft TVD, 225.67ft VS

Projected MD at TD: 16398' : 89.66° Inc, 16398.00ft MD, 7284.42ft TVD, 8591.00ft VS

APS EM <8-3/4"> (3436')(3507'-6820') : 3306.07ft TVD, 154.35ft N, 901.51ft E
 APS EM <12-1/4"> (921')(950'-3436') : 949.96ft TVD, 6.7ft S, 3.38ft E
 Gyrodata MS Gyro <17-1/2"> (100'-921') : 100.00ft TVD, 0.02ft N, 0.12ft E

Marcellus POE: 8025' MD : 7200.59ft TVD, 1057.19ft N, 2461.60ft E

BH AT Curve <8-1/2"> (6820')(6940'-16373') : 6392.77ft TVD, 492.14ft N, 2348.64ft E

Scale: 1 inch = 1500.00

True Vertical Depth (ft)

Northing (ft)

-750

0

750

1500

2250

3000

3750

4500

5250

6000

6750

7500

8250

9500

Vertical Section (ft)

Azimuth 341.59° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 4H
Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999609	Report Generated	1/6/2023 at 10:52:04 PM
Convergence at slot	0.20° 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	-59.93	-1.69	1730797.85	14280833.76	39°19'34.0100"N	80°40'49.4290"W
Facility Reference Pt			1730799.54	14280893.67	39°19'34.6023"N	80°40'49.4048"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 531 (RKB) to Facility Vertical Datum	1334.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1334.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot G)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.59°

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Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'
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REFERENCE WELLPATH IDENTIFICATION			
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Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

WELLPATH DATA (180 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	82.050	0.00	0.00	0.00	0.00	1730797.85	14280833.76	39°19'34.0100"N	80°40'49.4290"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	82.050	30.00	0.00	0.00	0.00	1730797.85	14280833.76	39°19'34.0100"N	80°40'49.4290"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.200	82.050	100.00	-0.02	0.02	0.12	1730797.97	14280833.78	39°19'34.0101"N	80°40'49.4275"W	0.12	82.050	0.29	0.29	0.00	Gyrodata MS Gyro <17-1/2"> (100'-921')
200.00	0.500	154.730	200.00	-0.49	-0.35	0.48	1730798.33	14280833.41	39°19'34.0065"N	80°40'49.4229"W	0.60	126.366	0.48	0.30	72.68	
300.00	0.620	165.110	299.99	-1.46	-1.27	0.81	1730798.66	14280832.49	39°19'33.9974"N	80°40'49.4188"W	1.50	147.638	0.16	0.12	10.38	
400.00	0.610	174.760	399.99	-2.52	-2.32	0.99	1730798.84	14280831.44	39°19'33.9870"N	80°40'49.4165"W	2.53	156.862	0.10	-0.01	9.65	
500.00	0.520	172.660	499.98	-3.48	-3.30	1.10	1730798.95	14280830.46	39°19'33.9773"N	80°40'49.4152"W	3.48	161.592	0.09	-0.09	-2.10	
600.00	0.420	151.930	599.98	-4.29	-4.08	1.33	1730799.18	14280829.68	39°19'33.9696"N	80°40'49.4123"W	4.29	161.934	0.20	-0.10	-20.73	
700.00	0.660	145.370	699.98	-5.20	-4.87	1.83	1730799.68	14280828.89	39°19'33.9617"N	80°40'49.4060"W	5.21	159.426	0.25	0.24	-6.56	
800.00	0.570	147.480	799.97	-6.24	-5.77	2.42	1730800.27	14280827.99	39°19'33.9529"N	80°40'49.3984"W	6.26	157.202	0.09	-0.09	2.11	
900.00	0.530	134.010	899.96	-7.13	-6.51	3.02	1730800.87	14280827.25	39°19'33.9455"N	80°40'49.3908"W	7.18	155.077	0.13	-0.04	-13.47	
921.00	0.520	126.990	920.96	-7.30	-6.63	3.17	1730801.02	14280827.13	39°19'33.9443"N	80°40'49.3890"W	7.35	154.455	0.31	-0.05	-33.43	
950.00	0.480	121.260	949.96	-7.50	-6.78	3.38	1730801.23	14280826.99	39°19'33.9429"N	80°40'49.3863"W	7.57	153.492	0.22	-0.14	-19.76	APS EM <12-1/4"> (921')(950'-3436')
1043.00	2.120	94.950	1042.94	-8.48	-7.13	5.43	1730803.27	14280826.64	39°19'33.9394"N	80°40'49.3603"W	8.96	142.713	1.83	1.76	-28.29	
1138.00	6.030	91.260	1137.68	-10.85	-7.39	12.17	1730810.01	14280826.37	39°19'33.9365"N	80°40'49.2745"W	14.24	121.264	4.12	4.12	-3.88	
1232.00	9.110	87.240	1230.85	-14.52	-7.14	24.54	1730822.38	14280826.62	39°19'33.9386"N	80°40'49.1171"W	25.56	106.219	3.32	3.28	-4.28	
1327.00	13.090	83.210	1324.05	-18.72	-5.50	42.74	1730840.58	14280828.26	39°19'33.9541"N	80°40'48.8854"W	43.10	97.337	4.27	4.19	-4.24	
1421.00	16.830	80.430	1414.85	-22.96	-1.98	66.74	1730864.56	14280831.78	39°19'33.9881"N	80°40'48.5798"W	66.77	91.700	4.05	3.98	-2.96	
1516.00	21.040	78.920	1504.69	-27.25	3.58	97.05	1730894.86	14280837.34	39°19'34.0420"N	80°40'48.1939"W	97.12	87.884	4.46	4.43	-1.59	
1611.00	23.830	81.590	1592.50	-32.76	9.67	132.78	1730930.58	14280843.43	39°19'34.1009"N	80°40'47.7390"W	133.13	85.834	3.13	2.94	2.81	
1705.00	27.170	83.910	1677.33	-40.64	14.73	172.92	1730970.70	14280848.48	39°19'34.1495"N	80°40'47.2280"W	173.54	85.132	3.71	3.55	2.47	
1800.00	30.040	88.000	1760.73	-51.99	17.86	218.26	1731016.03	14280851.61	39°19'34.1789"N	80°40'46.6508"W	218.99	85.323	3.66	3.02	4.31	
1894.00	30.680	91.580	1841.85	-66.83	18.02	265.75	1731063.50	14280851.77	39°19'34.1788"N	80°40'46.0465"W	266.36	86.121	2.04	0.68	3.81	
1989.00	30.120	94.840	1923.79	-84.53	15.34	313.74	1731111.46	14280849.09	39°19'34.1506"N	80°40'45.4360"W	314.11	87.201	1.83	-0.59	3.43	
2084.00	28.360	97.320	2006.69	-103.74	10.45	359.87	1731157.58	14280844.21	39°19'34.1007"N	80°40'44.8492"W	360.02	88.336	2.25	-1.85	2.61	
2179.00	24.180	99.600	2091.86	-122.68	4.33	401.45	1731199.15	14280838.09	39°19'34.0387"N	80°40'44.3203"W	401.48	89.362	4.53	-4.40	2.40	
2273.00	20.960	95.450	2178.65	-138.52	-0.48	437.18	1731234.86	14280833.28	39°19'33.9899"N	80°40'43.8659"W	437.18	90.063	3.82	-3.43	-4.41	
2367.00	19.740	87.270	2266.80	-149.62	-1.32	469.78	1731267.45	14280832.44	39°19'33.9805"N	80°40'43.4511"W	469.79	90.161	3.29	-1.30	-8.70	
2462.00	20.240	84.710	2356.08	-157.68	0.96	502.17	1731299.83	14280834.72	39°19'34.0019"N	80°40'43.0388"W	502.17	89.891	1.06	0.53	-2.69	
2557.00	20.540	81.690	2445.13	-164.34	4.88	535.03	1731332.67	14280838.64	39°19'34.0395"N	80°40'42.6206"W	535.05	89.477	1.15	0.32	-3.18	



Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'
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Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 4H
Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

WELLPATH DATA (180 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
2651.00	20.740	80.640	2533.10	-169.85	9.97	567.77	1731365.39	14280843.73	39°19'34.0887"N	80°40'42.2037"W	567.86	88.994	0.45	0.21	-1.12	
2746.00	22.160	75.860	2621.52	-173.83	17.09	601.74	1731399.36	14280850.84	39°19'34.1578"N	80°40'41.7711"W	601.99	88.373	2.37	1.49	-5.03	
2840.00	22.970	72.550	2708.33	-175.45	26.92	636.43	1731434.03	14280860.67	39°19'34.2537"N	80°40'41.3292"W	637.00	87.578	1.60	0.86	-3.52	
2935.00	24.320	68.270	2795.36	-174.63	39.72	672.29	1731469.88	14280873.47	39°19'34.3790"N	80°40'40.8723"W	673.47	86.619	2.30	1.42	-4.51	
3029.00	25.000	65.620	2880.79	-171.44	55.09	708.37	1731505.94	14280886.83	39°19'34.5296"N	80°40'40.4125"W	710.51	85.553	1.38	0.72	-2.82	
3124.00	26.330	63.430	2966.41	-166.37	72.80	745.50	1731543.05	14280906.53	39°19'34.7033"N	80°40'39.9392"W	749.04	84.423	1.72	1.40	-2.31	
3219.00	26.820	62.780	3051.38	-160.09	92.03	783.40	1731580.94	14280925.75	39°19'34.8920"N	80°40'39.4561"W	788.79	83.300	0.60	0.52	-0.68	
3313.00	27.960	62.950	3134.84	-153.54	111.75	821.88	1731619.41	14280945.46	39°19'35.0856"N	80°40'38.9655"W	829.45	82.257	1.22	1.21	0.18	
3407.00	28.520	62.470	3217.65	-146.67	132.14	861.41	1731658.92	14280965.85	39°19'35.2858"N	80°40'38.4616"W	871.49	81.279	0.64	0.60	-0.51	
3436.00	28.050	61.780	3243.19	-144.41	138.57	873.56	1731671.06	14280972.27	39°19'35.3488"N	80°40'38.3067"W	884.48	80.987	1.97	-1.62	-2.38	
3507.00	27.290	61.020	3306.07	-138.58	154.35	902.51	1731700.00	14280988.04	39°19'35.5038"N	80°40'37.9376"W	915.61	80.295	1.18	-1.07	-1.07	APS EM <-8-3/4"> (3436')(3507'-6820')
3602.00	25.540	62.390	3391.15	-131.31	174.39	939.71	1731737.19	14281008.08	39°19'35.7006"N	80°40'37.4633"W	955.75	79.487	1.95	-1.84	1.44	
3696.00	23.490	68.200	3476.68	-126.96	190.74	975.07	1731772.53	14281024.43	39°19'35.8610"N	80°40'37.0126"W	993.55	78.932	3.36	-2.18	6.18	
3791.00	23.770	76.390	3563.74	-127.44	202.28	1011.26	1731808.72	14281035.96	39°19'35.9737"N	80°40'36.5515"W	1031.30	78.688	3.47	0.29	8.62	
3885.00	24.480	79.660	3649.53	-131.76	210.24	1048.84	1731846.28	14281043.91	39°19'36.0510"N	80°40'36.0730"W	1069.70	78.665	1.61	0.76	3.48	
3980.00	26.860	80.780	3735.15	-137.95	217.21	1089.39	1731886.81	14281050.88	39°19'36.1185"N	80°40'35.5566"W	1110.83	78.724	2.56	2.51	1.18	
4075.00	29.560	84.190	3818.86	-146.50	223.02	1133.90	1731931.30	14281056.69	39°19'36.1744"N	80°40'34.9900"W	1155.62	78.873	3.31	2.84	3.59	
4169.00	29.040	82.910	3900.84	-156.03	228.18	1179.61	1731976.99	14281061.85	39°19'36.2238"N	80°40'34.4081"W	1201.47	79.052	0.87	-0.55	-1.36	
4264.00	28.340	79.960	3984.18	-163.84	234.96	1224.69	1732022.06	14281068.63	39°19'36.2892"N	80°40'33.8341"W	1247.03	79.140	1.66	-0.74	-3.11	
4359.00	27.410	78.050	4068.16	-169.58	243.42	1268.29	1732065.64	14281077.08	39°19'36.3712"N	80°40'33.2789"W	1291.44	79.135	1.36	-0.98	-2.01	
4454.00	25.500	75.640	4153.21	-173.49	253.02	1309.50	1732106.84	14281086.68	39°19'36.4647"N	80°40'32.7541"W	1333.72	79.064	2.31	-2.01	-2.54	
4548.00	22.910	72.240	4238.94	-175.12	263.62	1346.53	1732143.86	14281097.28	39°19'36.5681"N	80°40'32.2823"W	1372.10	78.923	3.13	-2.76	-3.62	
4643.00	22.440	67.650	4326.60	-174.09	276.16	1380.92	1732178.22	14281109.81	39°19'36.6908"N	80°40'31.8442"W	1408.26	78.691	1.93	-0.49	-4.83	
4738.00	25.470	70.070	4413.41	-172.30	290.02	1416.90	1732214.19	14281123.67	39°19'36.8265"N	80°40'31.3857"W	1446.28	78.432	3.35	3.19	2.55	
4832.00	23.080	66.500	4499.10	-170.13	304.26	1452.80	1732250.08	14281137.90	39°19'36.9660"N	80°40'30.9282"W	1484.32	78.172	2.98	-2.54	-3.80	
4926.00	22.040	66.720	4585.91	-167.00	318.58	1485.90	1732283.17	14281152.21	39°19'37.1063"N	80°40'30.5063"W	1519.67	77.899	1.11	-1.11	0.23	
5021.00	23.490	70.040	4673.51	-164.97	332.09	1520.07	1732317.33	14281165.72	39°19'37.2386"N	80°40'30.0709"W	1555.93	77.676	2.04	1.53	3.49	
5115.00	22.930	71.400	4759.90	-164.40	344.32	1555.04	1732352.28	14281177.95	39°19'37.3583"N	80°40'29.6254"W	1592.70	77.515	0.82	-0.60	1.45	
5210.00	25.410	76.390	4846.57	-166.05	355.02	1592.40	1732389.62	14281188.64	39°19'37.4628"N	80°40'29.1495"W	1631.49	77.432	3.38	2.61	5.25	
5305.00	22.800	74.030	4933.28	-168.54	364.89	1629.91	1732427.12	14281198.50	39°19'37.5589"N	80°40'28.6717"W	1670.26	77.381	2.93	-2.75	-2.48	



Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Peter Unit 4H
Field	Doddridge		API	47-017-06936-0000
Facility	Lemley Pad		Wellbore	Peter Unit 4H AWP
Slot	Slot G			

WELLPATH DATA (180 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
5399.00	23.650	81.770	5019.69	-172.65	372.60	1666.09	1732463.29	14281206.21	39°19'37.6338"N	80°40'28.2109"W	1707.25	77.394	3.37	0.90	8.23	
5493.00	22.800	79.730	5106.07	-178.56	378.54	1702.67	1732499.85	14281212.16	39°19'37.6913"N	80°40'27.7451"W	1744.25	77.466	1.24	-0.90	-2.17	
5588.00	26.690	87.960	5192.36	-187.18	382.59	1742.13	1732539.30	14281216.20	39°19'37.7299"N	80°40'27.2428"W	1783.65	77.614	5.46	4.09	8.66	
5684.00	29.100	92.120	5277.20	-201.45	382.49	1787.02	1732584.17	14281216.10	39°19'37.7273"N	80°40'26.6716"W	1827.49	77.919	3.23	2.51	4.33	
5779.00	29.890	86.860	5359.91	-215.79	382.93	1833.75	1732630.88	14281216.54	39°19'37.7300"N	80°40'26.0770"W	1873.30	78.205	2.85	0.83	-5.54	
5874.00	31.630	83.140	5441.54	-227.01	387.21	1882.12	1732679.24	14281220.81	39°19'37.7705"N	80°40'25.4612"W	1921.54	78.375	2.71	1.83	-3.92	
5968.00	31.180	80.890	5521.78	-235.88	394.00	1930.62	1732727.72	14281227.61	39°19'37.8360"N	80°40'24.8437"W	1970.42	78.465	1.34	-0.48	-2.39	
6063.00	30.160	78.850	5603.49	-242.87	402.51	1978.32	1732775.40	14281236.11	39°19'37.9184"N	80°40'24.2363"W	2018.86	78.499	1.53	-1.07	-2.15	
6157.00	27.850	76.380	5685.70	-247.69	412.25	2022.84	1732819.89	14281245.85	39°19'38.0130"N	80°40'23.6694"W	2064.42	78.481	2.77	-2.46	-2.63	
6252.00	26.830	78.210	5770.09	-252.01	421.86	2065.39	1732862.43	14281255.45	39°19'38.1065"N	80°40'23.1275"W	2108.03	78.456	1.39	-1.07	1.93	
6347.00	25.740	80.690	5855.26	-257.75	429.58	2106.74	1732903.76	14281263.17	39°19'38.1813"N	80°40'22.6010"W	2150.09	78.475	1.63	-1.15	2.61	
6441.00	23.690	79.820	5940.65	-263.68	436.22	2145.47	1732942.48	14281269.80	39°19'38.2455"N	80°40'22.1078"W	2189.37	78.507	2.21	-2.18	-0.93	
6536.00	23.950	76.910	6027.56	-268.20	443.96	2183.04	1732980.03	14281277.54	39°19'38.3207"N	80°40'21.6294"W	2227.72	78.505	1.27	0.27	-3.06	
6631.00	25.000	74.570	6114.02	-271.03	453.66	2221.17	1733018.15	14281287.25	39°19'38.4153"N	80°40'21.1437"W	2267.03	78.456	1.50	1.11	-2.46	
6725.00	27.580	74.280	6198.29	-273.09	464.85	2261.27	1733058.23	14281298.42	39°19'38.5243"N	80°40'20.6329"W	2308.56	78.384	2.75	2.74	-0.31	
6820.00	25.500	71.520	6283.28	-274.09	477.29	2301.84	1733098.79	14281310.86	39°19'38.6459"N	80°40'20.1160"W	2350.81	78.286	2.54	-2.19	-2.91	
6940.00	22.810	73.350	6392.77	-274.78	492.14	2348.64	1733145.56	14281325.71	39°19'38.7910"N	80°40'19.5199"W	2399.65	78.165	2.33	-2.24	1.53	BH AT Curve <8-1/2"> (6820')(6940'-16373')
7035.00	25.380	73.250	6479.48	-275.93	503.29	2385.78	1733182.69	14281336.85	39°19'38.8998"N	80°40'19.0467"W	2438.29	78.088	2.71	2.71	-0.11	
7129.00	26.370	66.800	6564.07	-274.77	517.32	2424.27	1733221.17	14281350.88	39°19'39.0372"N	80°40'18.5563"W	2478.85	77.954	3.17	1.05	-6.86	
7224.00	26.180	49.190	6649.39	-265.01	539.36	2459.58	1733256.46	14281372.91	39°19'39.2537"N	80°40'18.1060"W	2518.02	77.631	8.18	-0.20	-18.54	
7318.00	27.310	39.700	6733.37	-245.71	569.52	2489.06	1733285.93	14281403.06	39°19'39.5507"N	80°40'17.7294"W	2553.38	77.112	4.69	1.20	-10.10	
7372.00†	29.514	31.410	6780.88	-230.57	590.42	2503.91	1733300.78	14281423.94	39°19'39.7567"N	80°40'17.5394"W	2572.58	76.732	8.36	4.08	-15.35	Sycamore: 7372' MD
7413.00	31.490	25.890	6816.21	-216.39	608.67	2513.85	1733310.72	14281442.20	39°19'39.9368"N	80°40'17.4121"W	2586.49	76.389	8.36	4.82	-13.46	
7507.00	36.930	8.920	6894.10	-173.60	658.81	2529.00	1733325.85	14281492.31	39°19'40.4318"N	80°40'17.2170"W	2613.40	75.399	11.64	5.79	-18.05	
7556.00†	39.641	4.861	6932.56	-146.16	688.94	2532.61	1733329.46	14281522.43	39°19'40.7294"N	80°40'17.1897"W	2624.64	74.782	7.54	5.53	-8.28	Middlesex: 7556' MD
7602.00	42.300	1.460	6967.30	-118.11	719.04	2534.24	1733331.10	14281552.52	39°19'41.0269"N	80°40'17.1475"W	2634.28	74.160	7.54	5.78	-7.39	
7696.00	48.800	356.150	7033.11	-54.04	786.04	2532.67	1733329.53	14281619.49	39°19'41.6892"N	80°40'17.1644"W	2651.85	72.758	8.00	6.91	-5.65	
7776.00†	53.490	346.587	7083.36	7.24	847.47	2523.18	1733320.04	14281680.89	39°19'42.2966"N	80°40'17.2824"W	2661.69	71.434	10.99	5.86	-11.95	Burkett: 7776' MD
7791.00	54.450	344.930	7092.18	19.33	859.22	2520.19	1733317.05	14281692.64	39°19'42.4129"N	80°40'17.3198"W	2662.64	71.174	10.99	6.40	-11.05	
7826.00†	56.659	344.415	7111.98	48.15	887.06	2512.56	1733309.42	14281720.47	39°19'42.6883"N	80°40'17.4156"W	2664.55	70.554	6.43	6.31	-1.47	Tully: 7826' MD



Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Peter Unit 4H
Field	Doddridge		API	47-017-06936-0000
Facility	Lemley Pad		Wellbore	Peter Unit 4H AWB
Slot	Slot G			

WELLPATH DATA (180 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
7886.00	60.450	343.590	7143.27	89.29	936.25	2498.45	1733295.32	14281769.64	39°19'43.1750"N	80°40'17.5929"W	2668.11	69.457	6.43	6.32	-1.38	
7954.00†	65.528	342.862	7174.15	159.83	994.23	2480.96	1733277.84	14281827.60	39°19'43.7487"N	80°40'17.8128"W	2672.77	68.162	7.53	7.47	-1.07	Hamilton: 7954' MD
7980.00	67.470	342.600	7184.51	183.66	1017.00	2473.88	1733270.76	14281850.36	39°19'43.9740"N	80°40'17.9018"W	2674.77	67.653	7.53	7.47	-1.01	
8025.00†	70.651	343.389	7200.59	225.67	1057.19	2461.60	1733258.48	14281890.53	39°19'44.3716"N	80°40'18.0563"W	2679.01	66.758	7.26	7.07	1.75	Marcellus POE: 8025' MD
8075.00	74.190	344.230	7215.69	273.29	1102.95	2448.31	1733245.20	14281936.28	39°19'44.8244"N	80°40'18.2232"W	2685.28	65.749	7.26	7.08	1.68	
8169.00	81.530	344.930	7235.45	365.00	1191.49	2423.90	1733220.80	14282024.78	39°19'45.7003"N	80°40'18.5298"W	2700.91	63.823	7.84	7.81	0.74	
8264.00	87.260	343.470	7244.72	459.41	1282.42	2398.16	1733195.07	14282115.67	39°19'46.6000"N	80°40'18.8531"W	2719.52	61.864	6.22	6.03	-1.54	
8358.00	90.340	341.990	7246.69	553.36	1372.15	2370.27	1733167.19	14282205.37	39°19'47.4878"N	80°40'19.2040"W	2738.79	59.933	3.64	3.28	-1.57	
8548.00	89.110	341.740	7247.60	743.35	1552.70	2311.13	1733108.07	14282385.85	39°19'49.2745"N	80°40'19.9482"W	2784.28	56.105	0.66	-0.65	-0.13	
8643.00	88.550	339.180	7249.54	838.30	1642.20	2279.37	1733076.32	14282475.32	39°19'50.1602"N	80°40'20.3483"W	2809.33	54.229	2.76	-0.58	-2.69	
8737.00	89.170	341.850	7251.41	932.26	1730.79	2248.02	1733044.99	14282563.88	39°19'51.0369"N	80°40'20.7431"W	2837.12	52.407	2.92	0.66	2.84	
8832.00	88.060	342.510	7253.71	1027.22	1821.21	2218.96	1733015.94	14282654.25	39°19'51.9316"N	80°40'21.1088"W	2870.64	50.623	1.36	-1.17	0.69	
8927.00	90.340	340.530	7255.04	1122.20	1911.29	2188.85	1732985.84	14282744.30	39°19'52.8230"N	80°40'21.4878"W	2905.87	48.873	3.18	2.40	-2.08	
9022.00	89.820	342.690	7254.90	1217.20	2001.43	2158.88	1732955.88	14282834.41	39°19'53.7150"N	80°40'21.8650"W	2943.89	47.167	2.34	-0.55	2.27	
9116.00	88.310	338.670	7256.44	1311.15	2090.11	2127.79	1732924.81	14282923.05	39°19'54.5925"N	80°40'22.2566"W	2982.63	45.512	4.57	-1.61	-4.28	
9211.00	86.210	341.770	7260.98	1406.00	2179.38	2095.69	1732892.71	14283012.29	39°19'55.4760"N	80°40'22.6611"W	3023.51	43.878	3.94	-2.21	3.26	
9306.00	91.540	343.070	7262.85	1500.93	2269.89	2067.01	1732864.05	14283102.76	39°19'56.3716"N	80°40'23.0218"W	3070.01	42.322	5.77	5.61	1.37	
9401.00	90.180	338.440	7261.42	1595.88	2359.55	2035.71	1732832.76	14283192.38	39°19'57.2589"N	80°40'23.4160"W	3116.34	40.786	5.08	-1.43	-4.87	
9495.00	90.180	341.930	7261.12	1689.84	2447.97	2003.85	1732800.91	14283280.77	39°19'58.1339"N	80°40'23.8174"W	3163.54	39.303	3.71	0.00	3.71	
9590.00	88.680	341.790	7262.07	1784.83	2538.24	1974.28	1732771.35	14283371.00	39°19'59.0272"N	80°40'24.1898"W	3215.65	37.876	1.59	-1.58	-0.15	
9684.00	89.720	342.190	7263.38	1878.82	2627.62	1945.22	1732742.30	14283460.35	39°19'59.9116"N	80°40'24.5554"W	3269.29	36.512	1.19	1.11	0.43	
9779.00	89.750	341.970	7263.82	1973.81	2718.02	1915.99	1732713.08	14283550.71	39°20'0.8061"N	80°40'24.9232"W	3325.45	35.181	0.23	0.03	-0.23	
9873.00	90.220	341.120	7263.84	2067.81	2807.18	1886.23	1732683.34	14283639.84	39°20'1.6884"N	80°40'25.2978"W	3382.03	33.898	1.03	0.50	-0.90	
9967.00	90.460	342.420	7263.29	2161.81	2896.46	1856.82	1732653.94	14283729.08	39°20'2.5718"N	80°40'25.6679"W	3440.53	32.663	1.41	0.26	1.38	
10062.00	88.800	338.920	7263.90	2256.78	2986.08	1825.38	1732622.52	14283818.67	39°20'3.4588"N	80°40'26.0639"W	3499.82	31.437	4.08	-1.75	-3.68	
10157.00	86.460	341.810	7267.83	2351.66	3075.47	1793.49	1732590.64	14283908.02	39°20'4.3433"N	80°40'26.4657"W	3560.21	30.249	3.91	-2.46	3.04	
10251.00	91.420	343.550	7269.57	2445.59	3165.16	1765.52	1732562.68	14283997.68	39°20'5.2308"N	80°40'26.8175"W	3624.27	29.153	5.59	5.28	1.85	
10346.00	91.720	339.220	7266.96	2540.53	3255.13	1735.22	1732532.39	14284087.62	39°20'6.1212"N	80°40'27.1991"W	3688.75	28.061	4.57	0.32	-4.56	
10440.00	87.440	339.510	7267.65	2634.44	3343.08	1702.10	1732499.28	14284175.53	39°20'6.9916"N	80°40'27.6165"W	3751.44	26.983	4.56	-4.55	0.31	
10535.00	90.180	341.800	7269.63	2729.39	3432.68	1670.64	1732467.84	14284265.09	39°20'7.8783"N	80°40'28.0127"W	3817.64	25.952	3.76	2.88	2.41	



Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 4H
Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

WELLPATH DATA (180 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
10629.00	89.080	341.600	7270.23	2823.38	3521.93	1641.13	1732438.34	14284354.30	39°20'8.7614"N	80°40'28.3843"W	3885.52	24.984	1.19	-1.17	-0.21	
10724.00	88.950	340.770	7271.87	2918.37	3611.83	1610.50	1732407.71	14284444.18	39°20'9.6511"N	80°40'28.7700"W	3954.62	24.032	0.88	-0.14	-0.87	
10819.00	89.970	341.440	7272.76	3013.36	3701.71	1579.73	1732376.96	14284534.02	39°20'10.5405"N	80°40'29.1574"W	4024.70	23.111	1.28	1.07	0.71	
10913.00	89.780	341.770	7272.97	3107.36	3790.91	1550.07	1732347.31	14284623.18	39°20'11.4231"N	80°40'29.5309"W	4095.57	22.239	0.41	-0.20	0.35	
11008.00	88.890	342.680	7274.07	3202.34	3881.36	1521.07	1732318.32	14284713.60	39°20'12.3182"N	80°40'29.8958"W	4168.77	21.400	1.34	-0.94	0.96	
11102.00	89.910	340.080	7275.05	3296.33	3970.43	1491.06	1732288.33	14284802.63	39°20'13.1995"N	80°40'30.2736"W	4241.18	20.583	2.97	1.09	-2.77	
11197.00	89.480	341.440	7275.56	3391.31	4060.12	1459.76	1732257.04	14284892.29	39°20'14.0871"N	80°40'30.6679"W	4314.56	19.775	1.50	-0.45	1.43	
11291.00	89.750	342.110	7276.19	3485.31	4149.40	1430.36	1732227.65	14284981.53	39°20'14.9706"N	80°40'31.0380"W	4389.02	19.020	0.77	0.29	0.71	
11386.00	90.120	342.010	7276.30	3580.31	4239.78	1401.10	1732198.40	14285071.88	39°20'15.8649"N	80°40'31.4063"W	4465.29	18.287	0.40	0.39	-0.11	
11480.00	87.630	342.370	7278.14	3674.28	4329.25	1372.36	1732169.67	14285161.31	39°20'16.7502"N	80°40'31.7680"W	4541.56	17.588	2.68	-2.65	0.38	
11575.00	88.920	341.320	7281.00	3769.23	4419.48	1342.77	1732140.09	14285251.50	39°20'17.6430"N	80°40'32.1404"W	4618.96	16.900	1.75	1.36	-1.11	
11670.00	89.170	341.580	7282.59	3864.21	4509.53	1312.55	1732109.89	14285341.52	39°20'18.5341"N	80°40'32.5209"W	4696.67	16.228	0.38	0.26	0.27	
11764.00	90.280	342.080	7283.04	3958.21	4598.84	1283.24	1732080.59	14285430.80	39°20'19.4179"N	80°40'32.8899"W	4774.52	15.591	1.30	1.18	0.53	
11859.00	89.820	341.590	7282.96	4053.21	4689.11	1253.62	1732050.98	14285521.03	39°20'20.3111"N	80°40'33.2627"W	4853.79	14.968	0.71	-0.48	-0.52	
11953.00	89.750	341.640	7283.31	4147.21	4778.31	1223.98	1732021.34	14285610.19	39°20'21.1937"N	80°40'33.6360"W	4932.58	14.368	0.09	-0.07	0.05	
12048.00	90.520	341.490	7283.08	4242.21	4868.43	1193.93	1731991.31	14285700.28	39°20'22.0855"N	80°40'34.0142"W	5012.69	13.779	0.83	0.81	-0.16	
12143.00	90.460	342.150	7282.27	4337.20	4958.69	1164.29	1731961.69	14285790.50	39°20'22.9786"N	80°40'34.3873"W	5093.54	13.214	0.70	-0.06	0.69	
12237.00	89.380	342.170	7282.40	4431.20	5048.16	1135.50	1731932.90	14285879.94	39°20'23.8640"N	80°40'34.7498"W	5174.29	12.677	1.15	-1.15	0.02	
12426.00	89.690	342.580	7283.94	4620.17	5228.29	1078.27	1731875.70	14286059.99	39°20'25.6463"N	80°40'35.4699"W	5338.32	11.653	0.27	0.16	0.22	
12521.00	89.230	342.270	7284.83	4715.16	5318.85	1049.59	1731847.03	14286150.52	39°20'26.5424"N	80°40'35.8309"W	5421.42	11.163	0.58	-0.48	-0.33	
12615.00	89.750	340.250	7285.67	4809.15	5407.86	1019.39	1731816.84	14286239.49	39°20'27.4231"N	80°40'36.2111"W	5503.10	10.675	2.22	0.55	-2.15	
12710.00	91.020	341.710	7285.03	4904.14	5497.66	988.43	1731785.90	14286329.26	39°20'28.3119"N	80°40'36.6011"W	5585.81	10.192	2.04	1.34	1.54	
12804.00	88.400	339.410	7285.51	4998.10	5586.29	957.15	1731754.63	14286417.86	39°20'29.1889"N	80°40'36.9952"W	5667.70	9.723	3.71	-2.79	-2.45	
12898.00	90.580	340.860	7286.34	5092.06	5674.68	925.22	1731722.70	14286506.22	39°20'30.0637"N	80°40'37.3976"W	5749.61	9.260	2.79	2.32	1.54	
12993.00	89.970	341.200	7285.89	5187.06	5764.52	894.33	1731691.83	14286596.02	39°20'30.9527"N	80°40'37.7866"W	5833.49	8.819	0.74	-0.64	0.36	
13088.00	90.000	341.310	7285.91	5282.05	5854.48	863.81	1731661.32	14286685.95	39°20'31.8429"N	80°40'38.1711"W	5917.87	8.393	0.12	0.03	0.12	
13183.00	90.490	340.550	7285.51	5377.05	5944.27	832.77	1731630.29	14286775.69	39°20'32.7314"N	80°40'38.5621"W	6002.32	7.975	0.95	0.52	-0.80	
13277.00	90.580	341.790	7284.63	5471.04	6033.23	802.43	1731599.97	14286864.62	39°20'33.6118"N	80°40'38.9442"W	6086.36	7.576	1.32	0.10	1.32	
13372.00	88.830	340.680	7285.12	5566.03	6123.18	771.87	1731569.42	14286954.53	39°20'34.5018"N	80°40'39.3290"W	6171.64	7.185	2.18	-1.84	-1.17	
13466.00	90.120	341.000	7285.98	5660.02	6211.96	741.02	1731538.58	14287043.28	39°20'35.3804"N	80°40'39.7176"W	6256.01	6.803	1.41	1.37	0.34	

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Actual Wellpath Report

Peter Unit 4H AWP Proj: 16398'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 4H
Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

WELLPATH DATA (180 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
13655.00	89.510	338.990	7286.59	5848.93	6389.55	676.37	1731473.95	14287220.80	39°20'37.1379"N	80°40'40.5325"W	6425.25	8.043	1.11	-0.32	-1.06	
13750.00	91.780	344.180	7285.52	5943.89	6479.64	646.37	1731443.97	14287310.86	39°20'38.0294"N	80°40'40.9102"W	6511.80	5.697	5.96	2.39	5.46	
13844.00	88.460	340.650	7285.32	6037.85	6589.22	617.98	1731415.59	14287400.40	39°20'38.9158"N	80°40'41.2675"W	6598.23	5.374	5.15	-3.53	-3.76	
13938.00	89.630	341.340	7286.89	6131.83	6688.08	587.38	1731384.99	14287489.23	39°20'39.7951"N	80°40'41.6531"W	6683.94	5.042	1.44	1.24	0.73	
14033.00	89.420	341.090	7287.68	6226.82	6748.02	556.78	1731354.42	14287579.13	39°20'40.6851"N	80°40'42.0384"W	6770.85	4.717	0.34	-0.22	-0.26	
14127.00	89.290	341.630	7288.73	6320.82	6837.08	526.74	1731324.39	14287668.16	39°20'41.5664"N	80°40'42.4167"W	6857.34	4.405	0.59	-0.14	0.57	
14222.00	89.910	342.880	7289.40	6415.80	6927.56	497.79	1731295.44	14287758.60	39°20'42.4616"N	80°40'42.7811"W	6945.42	4.110	1.47	0.65	1.32	
14316.00	89.940	342.890	7289.52	6509.78	7017.35	469.97	1731267.63	14287848.35	39°20'43.3500"N	80°40'43.1312"W	7033.07	3.832	0.20	0.03	-0.20	
14411.00	89.420	345.820	7290.05	6604.67	7108.77	444.19	1731241.87	14287939.74	39°20'44.2545"N	80°40'43.4551"W	7122.64	3.576	3.34	-0.55	3.29	
14505.00	91.820	341.440	7289.03	6698.57	7198.93	417.71	1731215.40	14288029.86	39°20'45.1465"N	80°40'43.7861"W	7211.04	3.321	5.31	2.55	-4.68	
14600.00	89.230	343.200	7288.16	6793.55	7289.42	388.87	1731186.56	14288120.32	39°20'46.0420"N	80°40'44.1512"W	7299.79	3.054	3.30	-2.73	1.85	
14694.00	90.030	342.870	7288.77	6887.52	7379.33	361.44	1731159.15	14288210.19	39°20'46.9315"N	80°40'44.4863"W	7388.18	2.804	0.92	0.85	-0.35	
14789.00	90.000	342.520	7288.75	6982.50	7470.03	333.18	1731130.90	14288300.86	39°20'47.8290"N	80°40'44.8519"W	7477.46	2.554	0.37	-0.03	-0.37	
14883.00	89.910	343.020	7286.82	7076.48	7559.81	305.34	1731103.07	14288390.60	39°20'48.7173"N	80°40'45.2022"W	7565.98	2.313	0.54	-0.10	0.53	
14978.00	89.480	344.890	7289.33	7171.39	7651.11	279.08	1731076.82	14288481.86	39°20'49.6205"N	80°40'45.5323"W	7656.19	2.089	2.02	-0.43	1.97	
15073.00	89.480	340.780	7290.19	7266.34	7741.85	251.05	1731048.80	14288572.57	39°20'50.5184"N	80°40'45.8850"W	7745.92	1.857	4.33	0.00	-4.33	
15168.00	90.550	342.890	7290.18	7361.34	7832.11	221.44	1731019.20	14288662.79	39°20'51.4115"N	80°40'46.2579"W	7835.24	1.619	2.49	1.13	2.22	
15357.00	92.090	344.470	7285.81	7550.15	8013.44	168.34	1730966.13	14288744.05	39°20'53.2055"N	80°40'46.9255"W	8015.20	1.203	1.17	0.81	0.84	
15452.00	90.980	341.670	7283.28	7645.07	8104.27	140.69	1730938.49	14288834.85	39°20'54.1043"N	80°40'47.2734"W	8105.50	0.995	3.17	-1.17	-2.95	
15548.00	89.820	341.540	7282.61	7739.07	8193.49	111.11	1730908.91	14288924.04	39°20'54.9871"N	80°40'47.6459"W	8194.25	0.777	1.23	-1.23	-0.03	
15641.00	89.630	341.660	7283.06	7834.07	8283.66	81.20	1730879.02	14289014.17	39°20'55.8794"N	80°40'48.0228"W	8284.06	0.562	0.20	-0.20	0.02	
15736.00	89.510	341.130	7283.78	7929.06	8373.69	50.89	1730848.72	14289104.17	39°20'56.7703"N	80°40'48.4043"W	8373.85	0.348	0.57	-0.13	-0.56	
15831.00	91.140	341.120	7283.24	8024.06	8463.58	20.16	1730818.00	14289194.02	39°20'57.6598"N	80°40'48.7914"W	8463.61	0.136	1.72	1.72	-0.01	
15925.00	90.220	342.180	7282.12	8118.05	8552.79	-9.43	1730788.42	14289283.20	39°20'58.5425"N	80°40'49.1641"W	8552.80	359.937	1.49	-0.98	1.13	
16020.00	90.090	342.090	7281.87	8213.04	8643.21	-36.57	1730759.29	14289373.58	39°20'59.4372"N	80°40'49.5310"W	8643.30	359.744	0.17	-0.14	-0.09	
16114.00	88.770	342.120	7282.80	8307.03	8732.66	-67.45	1730730.42	14289462.99	39°21'0.3223"N	80°40'49.8946"W	8732.92	359.557	1.40	-1.40	0.03	
16209.00	90.520	340.500	7283.39	8402.02	8822.64	-97.89	1730699.99	14289552.94	39°21'1.2127"N	80°40'50.2780"W	8823.18	359.364	2.51	1.84	-1.71	
16303.00	89.230	342.720	7283.59	8496.01	8911.83	-127.55	1730670.35	14289642.09	39°21'2.0952"N	80°40'50.6515"W	8912.74	359.180	2.73	-1.37	2.36	
16373.00	89.660	340.500	7284.27	8566.01	8978.25	-149.63	1730648.28	14289731.24	39°21'2.9724"N	80°40'51.0296"W	8979.50	359.045	3.23	0.61	-3.17	
16398.00	89.660	340.500	7284.42	8591.00	9001.82	-157.97	1730639.94	14289820.04	39°21'2.9858"N	80°40'51.0348"W	9003.20	358.995	0.00	0.00	0.00	Projected MD at TD: 16398'

HOLE & CASING SECTIONS - Ref Wellbore: Peter Unit 4H AWB Ref Wellpath: Peter Unit 4H AWP Proj: 16398'									
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	-0.01	0.23
17.5in Open Hole	130.00	922.00	792.00	130.00	921.96	-0.01	0.23	-6.64	3.18
13.375in Casing Surface	30.00	902.00	872.00	30.00	901.96	0.00	0.00	-6.52	3.04
12.25in Open Hole	922.00	3511.00	2589.00	921.96	3309.62	-6.64	3.18	155.23	804.11
9.625in Casing Intermediate	30.00	3491.00	3461.00	30.00	3291.86	0.00	0.00	150.79	896.06
8.75in Open Hole	3511.00	6895.00	3384.00	3309.62	6351.44	155.23	904.11	486.93	2331.61
8.5in Open Hole	6895.00	16398.00	9503.00	6351.44	7284.42	486.93	2331.61	9001.82	-157.97
5.5in Casing Production	30.00	16378.00	16348.00	30.00	7284.30	0.00	0.00	8982.96	-151.30



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Peter Unit 4H AWP Proj: 16398'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 4H
Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Peter Unit 4H POE Rev-2	7196.00	1035.42	2477.27	1733274.15	14281868.77	39°19'44.1559"N	80°40'17.8578"W	point
Peter Unit 4H BHL Rev-1	7210.00	9080.82	-200.60	1730597.33	14289911.01	39°21'3.7679"N	80°40'51.5738"W	point
Peter Unit 4H LP Rev-2	7244.00	1277.64	2396.65	1733193.56	14282110.90	39°19'46.5528"N	80°40'18.8726"W	point
Peter Unit 4H BHL Rev-2	7272.43	9004.51	-175.20	1730622.72	14289834.73	39°21'3.0128"N	80°40'51.2539"W	point
Peter Unit 4H 50' L/R Hard Line Rev-2	7500.00	5019.96	1151.04	1731948.44	14285851.75	39°20'23.5847"N	80°40'34.5533"W	rectangle
2D Rectangle 8398.92 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Peter Unit 4H AWB Ref Wellpath: Peter Unit 4H AWP Proj: 16398'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	921.00	Gyrodata 2015 - GC+WR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-921')	Peter Unit 4H AWB	10/12/2022
921.00	3436.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-1/4"> (921')(950'-3436')	Peter Unit 4H AWB	10/12/2022
3436.00	6820.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3436')(3507'-6820')	Peter Unit 4H AWB	12/23/2022
6820.00	16398.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6820')(6940'-16373')	Peter Unit 4H AWB	12/23/2022

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Peter Unit 4H AWP Proj: 16398'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 4H
Field	Doddridge	API	47-017-06936-0000
Facility	Lemley Pad	Wellbore	Peter Unit 4H AWB
Slot	Slot G		

COMMENTS

Wellpath general comments

API: 47-017-06936-0000
BH Job #: 111534743
Rig: H&P 531
Duration: 12/26/2022-12/29/2022
Gyrodatta MS Gyro <17-1/2"> (100'-921')
APS EM <12-1/4"> (921')(950'-3436')
APS EM <8-3/4"> (3436')(3507'-6820')
BH AT Curve <8-1/2"> (6820')(6940'-16373')
Sycamore: 7372' MD
Middlesex: 7556' MD
Burkett: 7776' MD
Tully: 7826' MD
Hamilton: 7954' MD
Marcellus POE: 8025' MD
Projected MD at TD: 16398'

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