



# ANTERO RESOURCES CORPORATION



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

Slot: Slot D  
 Well: Peter Unit 1H  
 Wellbore: Peter Unit 1H PWB

Easting (ft)

Plot reference wellpath is Peter Unit 1H PWB Rev-B.0	SIK Systems: NAD2011 / 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 SIK
Mean Sea Level to Ground level (At Slot: Slot D): -1304 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: edkaycar on 2022-12-21; Database: WA MPL_EASTERNUS_Dat

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°40'48.4048"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot D	-15.01	-0.43	1730799.110	14280876.670
Slot D	-15.01	-0.43	1730799.110	14280876.670
Slot D	-15.01	-0.43	1730799.110	14280876.670
Comment	Peter Unit 1H			
H&P 531 (RKB) to Ground level (At Slot: Slot D)			30ft	
Mean Sea Level to Ground level (At Slot: Slot D)			-1304ft	
H&P 531 (RKB) to Mean Sea Level			1334ft	

Scale 1 inch = 100'

750'

1500'

2250'

3000'

3750'

4500'

5250'

6000'

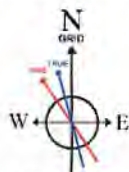
6750'

7500'



Gyrodata MS Gyro <17-1/2"> (100'-920') : 0.26° Inc, 100.00ft MD, 100.00ft TVD, -0.12ft VS

APS EM <12-1/4"> (920')(1040'-3263') : 0.64° Inc, 1040.00ft MD, 1039.98ft TVD, -5.58ft VS



User specified (HDGM) Dip: 66.17° Field: 51875 nT  
 Magnetic North is 7.95 degrees West of True North (at 12/3/2022)  
 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

APS EM <8-3/4"> (3263')(3413'-6350') : 0.49° Inc, 3413.00ft MD, 3412.65ft TVD, 12.52ft VS

API: 47-017-06933-0000  
 BH Job #: 111534764  
 Rig: H&P 531  
 Duration: 12/6/2022-12/10/2022

### Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3263.00	0.770	350.560	3262.66	13.42	4.70	0.20	11.25
Proj. to Bottom	3336.00	0.770	350.560	3335.65	14.39	4.54	0.00	12.22
KOP 1	3600.00	0.770	350.560	3599.63	17.89	3.95	0.00	15.72
End of 3D Arc	3954.97	10.000	204.272	3952.90	-7.93	-9.14	3.00	-4.64
Curve KOP	6452.47	10.000	204.272	6412.46	-403.28	-187.42	0.00	-323.40
POE	7418.56	69.812	341.579	7174.00	15.98	-398.12	8.00	140.95
Landing PL	7570.91	90.000	341.579	7218.00	250.47	-476.22	8.00	388.12
BHL	15064.00	90.000	341.579	7218.00	7264.76	-2812.37	0.00	7781.21

### Well Data

Slot	Well	Wellbore	Wellpath
Slot D	Peter Unit 1H	Peter Unit 1H AWB	Peter Unit 1H AWP Proj: 15015'
Slot D	Peter Unit 1H	Peter Unit 1H PWB	Peter Unit 1H PWP Rev-B.0

BH AT Curve <8-1/2"> (6350')(6464'-14977') : 7.26° Inc, 6464.00ft MD, 6426.89ft TVD, -303.08ft VS

Marcellus POE: 7406' MD : 69.67° Inc, 7406.00ft MD, 7176.16ft TVD, 161.04ft VS

Projected MD at TD: 15015' : 89.91° Inc, 15015.00ft MD, 7257.77ft TVD, 7763.37ft VS

Marcellus POE: 7406' MD : 7176.16ft TVD, 43.29ft N, 379.65ft W

BH AT Curve <8-1/2"> (6350')(6464'-14977') : 6426.89ft TVD, 384.74ft S, 196.07ft W  
 APS EM <8-3/4"> (3263')(3413'-6350') : 3412.65ft TVD, 14.49ft N, 3.90ft E  
 APS EM <12-1/4"> (920')(1040'-3263') : 1039.98ft TVD, 5.83ft S, 0.13ft E  
 Gyrodata MS Gyro <17-1/2"> (100'-920') : 100.00ft TVD, 0.15ft S, 0.06ft W

BHL: 182'  
 Projected MD at TD: 15015' 7257.77ft TVD, 7251.46ft N, 2795.85ft W

Peter Unit 1H 99' LR Hand Line Rev-2

POE: 70'  
 Slot D

Northing (ft)

7500'

6750'

6000'

5250'

4500'

3750'

3000'

2250'

1500'

750'

0'

-750'

-1500'

-750 0 750 1500 2250 3000 3750 4500 5250 6000 6750 7500 8250 9000

Vertical Section (ft)  
 Azimuth 341.58° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500'



# Actual Wellpath Report

Peter Unit 1H AWP Proj: 15015'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 1H
Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## 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	12/21/2022 at 10:30:19 AM
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	-15.01	-0.43	1730799.11	14280878.67	39°19'34.4540"N	80°40'49.4110"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 D)	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	341.58°

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Peter Unit 1H AWP Proj: 15015'

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

WELLPATH DATA (167 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	0.00	201.740	0.00	0.00	0.00	0.00	1730799.11	14280878.67	39°19'34.4540"N	80°40'49.4110"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	201.740	30.00	0.00	0.00	0.00	1730799.11	14280878.67	39°19'34.4540"N	80°40'49.4110"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.260	201.740	100.00	-0.12	-0.15	-0.06	1730799.05	14280878.52	39°19'34.4525"N	80°40'49.4117"W	0.16	201.740	0.37	0.37	0.00	Gyrodata MS Gyro <17-1/2"> (100'-920')
200.00	0.290	205.210	200.00	-0.48	-0.59	-0.25	1730798.86	14280878.08	39°19'34.4482"N	80°40'49.4142"W	0.64	203.115	0.03	0.03	3.47	
300.00	0.420	200.640	300.00	-0.95	-1.16	-0.49	1730798.62	14280877.51	39°19'34.4425"N	80°40'49.4172"W	1.26	202.815	0.13	0.13	-4.57	
400.00	0.380	188.330	399.99	-1.53	-1.83	-0.66	1730798.45	14280876.84	39°19'34.4359"N	80°40'49.4195"W	1.95	199.964	0.09	-0.04	-12.31	
500.00	0.280	179.700	499.99	-2.05	-2.40	-0.71	1730798.40	14280876.27	39°19'34.4303"N	80°40'49.4201"W	2.51	196.498	0.11	-0.10	-8.63	
600.00	0.170	127.390	599.99	-2.41	-2.74	-0.59	1730798.52	14280875.93	39°19'34.4270"N	80°40'49.4186"W	2.80	192.214	0.22	-0.11	-52.31	
700.00	0.300	99.860	699.99	-2.66	-2.87	-0.22	1730798.89	14280875.80	39°19'34.4256"N	80°40'49.4138"W	2.88	184.315	0.17	0.13	-27.53	
800.00	0.450	180.040	799.99	-3.15	-3.31	0.04	1730799.15	14280875.36	39°19'34.4213"N	80°40'49.4106"W	3.31	179.291	0.50	0.15	80.18	
900.00	0.580	179.490	899.99	-4.01	-4.21	0.05	1730799.16	14280874.46	39°19'34.4124"N	80°40'49.4106"W	4.21	179.385	0.13	0.13	-0.55	
920.00	0.700	177.560	919.98	-4.22	-4.43	0.05	1730799.16	14280874.24	39°19'34.4102"N	80°40'49.4105"W	4.43	179.337	0.61	0.60	-9.65	
1040.00	0.640	175.840	1039.98	-5.58	-5.83	0.13	1730799.24	14280872.84	39°19'34.3963"N	80°40'49.4096"W	5.83	178.712	0.05	-0.05	-1.43	APS EM <12-1/4"> (920')(1040'-3263')
1138.00	0.800	179.140	1137.97	-6.76	-7.06	0.18	1730799.29	14280871.61	39°19'34.3842"N	80°40'49.4090"W	7.06	178.531	0.17	0.16	3.37	
1232.00	0.700	188.840	1231.96	-7.89	-8.29	0.10	1730799.21	14280870.39	39°19'34.3721"N	80°40'49.4100"W	8.29	179.290	0.17	-0.11	10.32	
1327.00	0.870	181.330	1326.95	-9.09	-9.58	0.00	1730799.11	14280869.09	39°19'34.3593"N	80°40'49.4114"W	9.58	180.019	0.21	0.18	-7.91	
1422.00	0.670	167.500	1421.94	-10.32	-10.84	0.10	1730799.21	14280867.83	39°19'34.3468"N	80°40'49.4102"W	10.84	179.470	0.29	-0.21	-14.56	
1516.00	0.500	174.710	1515.94	-11.27	-11.79	0.26	1730799.37	14280866.89	39°19'34.3375"N	80°40'49.4082"W	11.79	178.751	0.20	-0.18	7.67	
1611.00	0.570	176.050	1610.93	-12.13	-12.67	0.33	1730799.44	14280866.00	39°19'34.3287"N	80°40'49.4074"W	12.68	178.518	0.07	0.07	1.41	
1706.00	0.670	173.490	1705.93	-13.13	-13.70	0.42	1730799.53	14280864.98	39°19'34.3186"N	80°40'49.4062"W	13.70	178.230	0.11	0.11	-2.69	
1800.00	0.840	13.570	1799.93	-13.08	-13.57	0.65	1730799.76	14280865.10	39°19'34.3198"N	80°40'49.4033"W	13.59	177.269	1.58	0.18	-170.13	
1895.00	1.260	6.850	1894.91	-11.55	-11.86	0.94	1730800.04	14280866.82	39°19'34.3367"N	80°40'49.3996"W	11.90	175.490	0.46	0.44	-7.07	
1989.00	1.280	13.470	1988.89	-9.72	-9.81	1.30	1730800.41	14280868.86	39°19'34.3570"N	80°40'49.3948"W	9.90	172.434	0.16	0.02	7.04	
2084.00	1.290	16.490	2083.86	-7.94	-7.75	1.85	1730800.96	14280870.92	39°19'34.3773"N	80°40'49.3877"W	7.97	166.554	0.07	0.01	3.18	
2179.00	1.200	17.400	2178.84	-6.26	-5.78	2.45	1730801.56	14280872.89	39°19'34.3968"N	80°40'49.3800"W	6.28	156.987	0.10	-0.09	0.96	
2273.00	1.190	16.070	2272.82	-4.66	-3.90	3.02	1730802.13	14280874.77	39°19'34.4153"N	80°40'49.3727"W	4.93	142.269	0.03	-0.01	-1.41	
2368.00	1.020	15.390	2367.80	-3.14	-2.14	3.52	1730802.63	14280876.53	39°19'34.4327"N	80°40'49.3663"W	4.12	121.309	0.18	-0.18	-0.72	
2462.00	1.120	12.990	2461.79	-1.66	-0.44	3.95	1730803.05	14280878.23	39°19'34.4495"N	80°40'49.3608"W	3.97	96.323	0.12	0.11	-2.55	
2557.00	1.150	14.220	2556.77	-0.07	1.39	4.39	1730803.50	14280880.06	39°19'34.4676"N	80°40'49.3551"W	4.60	72.405	0.04	0.03	1.29	
2651.00	1.200	352.930	2650.75	1.69	3.28	4.50	1730803.61	14280881.95	39°19'34.4863"N	80°40'49.3536"W	5.57	53.881	0.46	0.05	-22.65	

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# Actual Wellpath Report

Peter Unit 1H AWP Proj: 15015'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 1H
Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## WELLPATH DATA (167 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
2746.00	1.120	15.040	2745.73	3.44	5.17	4.62	1730803.73	14280883.83	39°19'34.5049"N	80°40'49.3520"W	6.93	41.786	0.48	-0.08	23.27	
2841.00	0.790	354.800	2840.71	4.86	6.72	4.80	1730803.91	14280885.38	39°19'34.5202"N	80°40'49.3496"W	8.25	35.549	0.49	-0.35	-21.31	
2935.00	1.010	6.050	2934.70	6.24	8.18	4.83	1730803.94	14280886.85	39°19'34.5347"N	80°40'49.3492"W	9.50	30.533	0.30	0.23	11.97	
3030.00	1.040	0.500	3029.69	7.82	9.88	4.92	1730804.03	14280888.55	39°19'34.5515"N	80°40'49.3479"W	11.04	26.488	0.11	0.03	-5.84	
3125.00	0.850	1.900	3124.68	9.29	11.45	4.95	1730804.06	14280890.11	39°19'34.5669"N	80°40'49.3474"W	12.47	23.404	0.20	-0.20	1.47	
3219.00	0.840	346.800	3218.67	10.63	12.81	4.82	1730803.93	14280891.48	39°19'34.5805"N	80°40'49.3490"W	13.69	20.614	0.24	-0.01	-16.06	
3263.00	0.770	350.560	3262.66	11.25	13.42	4.70	1730803.81	14280892.08	39°19'34.5865"N	80°40'49.3506"W	14.22	19.294	0.20	-0.16	8.55	
3413.00	0.490	277.070	3412.65	12.52	14.49	3.90	1730803.00	14280893.16	39°19'34.5971"N	80°40'49.3607"W	15.01	15.047	0.52	-0.19	-48.99	APS EM <8-3/4"> (3263')(3413'-6350')
3510.00	0.350	263.030	3509.65	12.76	14.51	3.19	1730802.30	14280893.17	39°19'34.5973"N	80°40'49.3697"W	14.85	12.402	0.18	-0.14	-14.47	
3605.00	1.640	210.390	3604.64	11.92	13.30	2.21	1730801.32	14280891.96	39°19'34.5854"N	80°40'49.3822"W	13.48	9.453	1.53	1.36	-55.41	
3699.00	3.710	203.410	3698.53	8.77	9.35	0.33	1730799.44	14280888.01	39°19'34.5464"N	80°40'49.4064"W	9.35	1.994	2.23	2.20	-7.43	
3794.00	5.540	204.120	3793.22	3.10	2.34	-2.77	1730796.34	14280881.01	39°19'34.4772"N	80°40'49.4461"W	3.63	310.210	1.93	1.93	0.75	
3889.00	7.220	206.460	3887.62	-4.51	-7.19	-7.30	1730791.81	14280871.48	39°19'34.3832"N	80°40'49.5042"W	10.25	225.456	1.79	1.77	2.46	
3984.00	8.830	206.100	3981.69	-13.94	-19.08	-13.17	1730785.94	14280859.60	39°19'34.2658"N	80°40'49.5794"W	23.19	214.617	1.70	1.69	-0.38	
4078.00	8.820	204.090	4074.58	-24.40	-32.14	-19.29	1730779.83	14280846.54	39°19'34.1370"N	80°40'49.6578"W	37.48	210.969	0.33	-0.01	-2.14	
4173.00	9.490	202.190	4168.37	-35.71	-46.04	-25.22	1730773.90	14280832.65	39°19'33.9998"N	80°40'49.7339"W	52.49	208.712	0.77	0.71	-2.00	
4267.00	10.260	199.790	4260.97	-48.17	-61.09	-30.98	1730768.14	14280817.60	39°19'33.8512"N	80°40'49.8079"W	68.50	206.889	0.93	0.82	-2.55	
4362.00	9.510	192.880	4354.57	-61.53	-76.71	-35.59	1730763.53	14280802.00	39°19'33.6971"N	80°40'49.8673"W	84.56	204.893	1.48	-0.79	-7.27	
4457.00	10.070	192.740	4448.18	-75.34	-92.46	-39.17	1730759.95	14280786.25	39°19'33.5416"N	80°40'49.9136"W	100.41	202.963	0.59	0.59	-0.15	
4550.00	9.830	201.770	4539.79	-88.36	-107.76	-43.91	1730755.21	14280770.95	39°19'33.3905"N	80°40'49.9746"W	118.36	202.171	1.70	-0.26	9.71	
4644.00	9.190	196.400	4632.50	-100.66	-122.41	-49.01	1730750.12	14280756.30	39°19'33.2458"N	80°40'50.0401"W	131.86	201.819	1.16	-0.68	-5.71	
4739.00	9.290	206.420	4726.27	-112.32	-136.56	-54.56	1730744.57	14280742.16	39°19'33.1062"N	80°40'50.1114"W	147.06	201.779	1.69	0.11	10.55	
4833.00	8.950	211.270	4819.09	-122.43	-149.60	-61.73	1730737.40	14280729.12	39°19'32.9775"N	80°40'50.2032"W	161.84	202.423	0.89	-0.36	5.16	
4928.00	10.470	212.710	4912.72	-132.63	-163.18	-70.23	1730728.90	14280715.55	39°19'32.8436"N	80°40'50.3120"W	177.66	203.287	1.62	1.60	1.52	
5022.00	10.520	210.430	5005.15	-143.64	-177.77	-79.20	1730719.95	14280700.97	39°19'32.6997"N	80°40'50.4267"W	194.61	204.013	0.44	0.05	-2.43	
5117.00	8.890	202.320	5098.79	-154.91	-192.04	-86.38	1730712.77	14280686.71	39°19'32.5590"N	80°40'50.5187"W	210.57	204.218	2.24	-1.72	-8.54	
5212.00	9.970	210.570	5192.51	-165.87	-205.91	-93.35	1730705.80	14280672.84	39°19'32.4221"N	80°40'50.6081"W	226.08	204.387	1.82	1.14	8.68	
5306.00	10.760	217.310	5284.98	-176.15	-219.90	-102.81	1730696.34	14280658.86	39°19'32.2842"N	80°40'50.7290"W	242.74	205.057	1.54	0.84	7.17	
5401.00	9.720	212.600	5378.47	-186.19	-233.71	-112.50	1730686.65	14280645.05	39°19'32.1480"N	80°40'50.8530"W	259.38	205.705	1.40	-1.09	-4.96	
5496.00	8.600	206.750	5472.26	-196.24	-246.81	-120.02	1730679.14	14280631.96	39°19'32.0188"N	80°40'50.9493"W	274.44	205.933	1.53	-1.18	-6.16	

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# Actual Wellpath Report

Peter Unit 1H AWP Proj: 15015'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 1H
Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## WELLPATH DATA (167 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
5590.00	10.460	213.150	5564.96	-206.50	-260.23	-127.85	1730671.31	14280618.54	39°19'31.8864"N	80°40'51.0495"W	289.94	206.165	2.27	1.98	6.81	
5687.00	11.090	211.630	5660.25	-217.96	-275.54	-137.56	1730661.61	14280603.23	39°19'31.7354"N	80°40'51.1738"W	307.97	206.529	0.71	0.65	-1.57	
5782.00	9.950	208.850	5753.65	-229.40	-290.51	-146.31	1730652.86	14280588.27	39°19'31.5878"N	80°40'51.2858"W	325.28	206.731	1.31	-1.20	-2.93	
5876.00	8.700	201.930	5846.41	-240.33	-304.22	-152.88	1730646.29	14280574.57	39°19'31.4525"N	80°40'51.3701"W	340.48	206.681	1.78	-1.33	-7.36	
5971.00	10.270	203.670	5940.11	-252.09	-318.64	-158.97	1730640.20	14280560.15	39°19'31.3102"N	80°40'51.4481"W	356.10	206.514	1.68	1.65	1.83	
6066.00	10.280	203.330	6033.58	-264.70	-334.18	-165.72	1730633.45	14280544.62	39°19'31.1568"N	80°40'51.5348"W	373.02	206.377	0.06	0.01	-0.36	
6161.00	8.070	200.280	6127.36	-276.23	-348.22	-171.39	1730627.78	14280530.58	39°19'31.0183"N	80°40'51.6076"W	388.12	206.206	2.38	-2.33	-3.21	
6255.00	6.270	195.800	6220.62	-285.62	-359.35	-175.08	1730624.10	14280519.46	39°19'30.9084"N	80°40'51.6550"W	399.73	205.975	2.00	-1.91	-4.77	
6350.00	11.660	221.450	6314.46	-294.74	-371.55	-182.85	1730616.33	14280507.26	39°19'30.7881"N	80°40'51.7545"W	414.11	206.203	6.93	5.67	27.00	
6464.00	7.260	230.850	6426.89	-303.08	-384.74	-196.07	1730603.11	14280494.08	39°19'30.6582"N	80°40'51.9233"W	431.83	207.004	4.08	-3.86	8.25	BH AT Curve <8-1/2"> (6350')(6464'-14977')
6558.00	8.580	279.260	6520.09	-301.92	-387.37	-207.61	1730591.58	14280491.45	39°19'30.6326"N	80°40'52.0702"W	439.50	208.189	7.01	1.40	51.50	
6653.00	12.810	330.530	6613.61	-288.26	-377.03	-219.82	1730579.38	14280501.78	39°19'30.7352"N	80°40'52.2251"W	436.43	210.243	10.50	4.45	53.97	
6747.00	19.500	331.430	6703.85	-262.56	-354.16	-232.46	1730566.74	14280524.65	39°19'30.9618"N	80°40'52.3849"W	423.63	213.280	7.12	7.12	0.96	
6812.00†	23.342	329.875	6764.35	-239.26	-333.48	-244.12	1730555.09	14280545.32	39°19'31.1665"N	80°40'52.5323"W	413.29	216.205	5.98	5.91	-2.39	Sycamore: 6812' MD
6842.00	25.120	329.310	6791.71	-227.22	-322.87	-250.35	1730548.86	14280555.93	39°19'31.2717"N	80°40'52.6112"W	408.56	217.790	5.98	5.93	-1.88	
6936.00	29.750	328.670	6875.11	-184.96	-285.77	-272.67	1730526.54	14280593.02	39°19'31.6391"N	80°40'52.8936"W	394.99	223.657	4.94	4.93	-0.68	
6977.00†	31.995	334.968	6910.31	-164.25	-267.23	-282.56	1730516.66	14280611.55	39°19'31.8227"N	80°40'53.0186"W	388.91	226.598	9.59	5.48	15.36	Middlesex: 6977' MD
7031.00	35.360	342.080	6955.26	-134.40	-239.38	-293.43	1730505.79	14280639.38	39°19'32.0983"N	80°40'53.1556"W	378.69	230.793	9.59	6.23	13.17	
7126.00	44.620	347.560	7027.99	-73.57	-180.50	-309.12	1730490.11	14280698.24	39°19'32.6808"N	80°40'53.3526"W	357.96	239.719	10.42	9.75	5.77	
7177.00†	49.858	346.606	7062.60	-36.32	-144.02	-317.50	1730481.74	14280734.71	39°19'33.0417"N	80°40'53.4576"W	348.63	245.601	10.36	10.27	-1.87	Burkett: 7177' MD
7220.00	54.280	345.910	7089.03	-2.52	-111.08	-325.56	1730473.68	14280767.63	39°19'33.3675"N	80°40'53.5587"W	343.99	251.160	10.36	10.28	-1.62	
7222.00†	54.442	345.756	7090.19	-0.90	-109.51	-325.95	1730473.28	14280769.21	39°19'33.3830"N	80°40'53.5637"W	343.86	251.430	10.27	8.11	-7.75	Tully: 7222' MD
7315.00	62.170	339.150	7139.05	78.10	-34.24	-349.96	1730449.29	14280844.45	39°19'34.1278"N	80°40'53.8657"W	351.63	264.413	10.27	8.31	-7.10	
7342.00†	64.395	339.085	7151.19	102.19	-11.70	-358.55	1730440.70	14280866.97	39°19'34.3508"N	80°40'53.9741"W	358.74	268.130	8.24	8.24	-0.24	Hamilton: 7342' MD
7406.00†	69.670	338.939	7176.16	161.04	43.29	-379.65	1730419.61	14280921.95	39°19'34.8951"N	80°40'54.2401"W	382.11	276.505	8.24	8.24	-0.23	Marcellus POE: 7406' MD
7410.00	70.000	338.930	7177.54	164.79	46.80	-381.00	1730418.26	14280925.45	39°19'34.9298"N	80°40'54.2571"W	383.86	277.002	8.24	8.24	-0.22	
7442.00	72.400	339.240	7187.85	195.05	75.09	-391.81	1730407.46	14280953.73	39°19'35.2098"N	80°40'54.3934"W	398.94	280.849	7.56	7.50	0.97	
7504.00	78.590	338.810	7203.37	254.98	131.11	-413.29	1730385.98	14281009.73	39°19'35.7642"N	80°40'54.6643"W	433.59	287.601	10.01	9.98	-0.69	
7599.00	85.970	338.130	7216.12	348.92	218.62	-447.82	1730351.47	14281097.20	39°19'36.6303"N	80°40'55.0997"W	498.33	296.021	7.80	7.77	-0.72	
7693.00	89.570	338.150	7219.78	442.66	305.78	-482.79	1730316.51	14281184.33	39°19'37.4930"N	80°40'55.5408"W	571.48	302.348	3.83	3.83	0.02	

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Peter Unit 1H AWP Proj: 15015'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 1H
Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## WELLPATH DATA (167 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
7788.00	89.660	338.320	7220.42	537.50	394.00	-518.01	1730281.30	14281272.52	39°19'38.3662"N	80°40'55.9851"W	650.83	307.257	0.20	0.09	0.18	
7883.00	89.450	340.750	7221.15	632.43	483.00	-551.23	1730248.10	14281361.48	39°19'39.2469"N	80°40'56.4037"W	732.90	311.226	2.57	-0.22	2.56	
7978.00	89.850	341.290	7221.73	727.42	572.83	-582.12	1730217.22	14281451.28	39°19'40.1359"N	80°40'56.7929"W	816.70	314.539	0.71	0.42	0.57	
8073.00	88.460	341.260	7223.14	822.41	662.79	-612.62	1730186.73	14281541.20	39°19'41.0261"N	80°40'57.1769"W	902.55	317.253	1.46	-1.46	-0.03	
8167.00	88.770	342.020	7225.41	916.38	751.98	-642.22	1730157.15	14281630.35	39°19'41.9086"N	80°40'57.5498"W	988.89	319.502	0.87	0.33	0.81	
8262.00	90.340	340.820	7226.15	1011.37	842.02	-672.48	1730126.89	14281720.36	39°19'42.7996"N	80°40'57.9307"W	1077.60	321.387	2.08	1.65	-1.26	
8356.00	90.090	342.410	7225.79	1105.37	931.22	-702.13	1730097.26	14281809.52	39°19'43.6822"N	80°40'58.3040"W	1166.26	322.984	1.71	-0.27	1.69	
8451.00	89.260	340.670	7226.33	1200.36	1021.32	-732.21	1730067.19	14281899.59	39°19'44.5738"N	80°40'58.6828"W	1256.68	324.362	2.03	-0.87	-1.83	
8545.00	91.140	342.120	7226.00	1294.35	1110.41	-762.20	1730037.21	14281988.64	39°19'45.4553"N	80°40'59.0604"W	1346.83	325.534	2.53	2.00	1.54	
8640.00	88.120	339.500	7226.62	1389.32	1200.11	-793.42	1730006.01	14282078.31	39°19'46.3430"N	80°40'59.4537"W	1438.67	326.530	4.21	-3.18	-2.76	
8735.00	90.710	342.160	7227.59	1484.29	1289.82	-824.60	1729974.83	14282167.98	39°19'47.2307"N	80°40'59.8466"W	1530.88	327.409	3.91	2.73	2.80	
8829.00	89.140	341.270	7227.71	1578.29	1379.07	-854.09	1729945.35	14282257.20	39°19'48.1138"N	80°41'0.2179"W	1622.13	328.229	1.92	-1.67	-0.95	
8924.00	89.780	340.570	7228.61	1673.28	1468.84	-885.15	1729914.31	14282346.94	39°19'49.0022"N	80°41'0.6091"W	1714.93	328.926	1.00	0.67	-0.74	
9019.00	89.970	342.850	7228.81	1768.27	1559.04	-914.96	1729884.51	14282437.10	39°19'49.8947"N	80°41'0.9844"W	1807.69	329.592	2.41	0.20	2.40	
9113.00	89.630	341.330	7229.14	1862.26	1648.48	-943.86	1729855.62	14282526.50	39°19'50.7797"N	80°41'1.3483"W	1899.57	330.206	1.66	-0.36	-1.62	
9208.00	89.410	342.120	7229.94	1957.26	1738.68	-973.65	1729825.84	14282616.67	39°19'51.6723"N	80°41'1.7234"W	1992.74	330.751	0.86	-0.23	0.83	
9302.00	89.170	340.000	7231.10	2051.24	1827.58	-1004.16	1729795.35	14282705.54	39°19'52.5520"N	80°41'2.1076"W	2085.28	331.214	2.27	-0.26	-2.26	
9397.00	90.650	341.670	7231.25	2146.23	1917.31	-1035.34	1729764.17	14282795.23	39°19'53.4399"N	80°41'2.5005"W	2179.00	331.631	2.35	1.56	1.76	
9491.00	89.320	341.840	7231.28	2240.23	2006.58	-1064.77	1729734.75	14282884.47	39°19'54.3232"N	80°41'2.8710"W	2271.59	332.048	1.43	-1.41	0.18	
9586.00	91.790	341.800	7230.36	2335.21	2096.83	-1094.41	1729705.13	14282974.68	39°19'55.2162"N	80°41'3.2442"W	2365.26	332.438	2.60	2.60	-0.04	
9680.00	89.110	341.980	7229.62	2429.20	2186.16	-1123.63	1729675.93	14283063.98	39°19'56.1002"N	80°41'3.6120"W	2458.02	332.798	2.86	-2.85	0.19	
9775.00	92.310	342.980	7228.44	2524.17	2276.74	-1152.22	1729647.34	14283154.51	39°19'56.9963"N	80°41'3.9719"W	2551.69	333.157	3.53	3.37	1.05	
9870.00	90.890	340.990	7225.79	2619.12	2367.04	-1181.59	1729617.99	14283244.78	39°19'57.8898"N	80°41'4.3416"W	2645.56	333.472	2.57	-1.49	-2.09	
9964.00	89.690	340.290	7225.31	2713.11	2455.72	-1212.75	1729586.84	14283333.42	39°19'58.7674"N	80°41'4.7342"W	2738.85	333.718	1.48	-1.28	-0.74	
10059.00	89.260	341.130	7226.18	2808.09	2545.38	-1244.13	1729555.47	14283423.05	39°19'59.6547"N	80°41'5.1296"W	2833.16	333.952	0.99	-0.45	0.88	
10153.00	89.020	342.580	7227.59	2902.08	2634.69	-1273.40	1729526.21	14283512.33	39°20'0.5384"N	80°41'5.4981"W	2926.29	334.205	1.56	-0.26	1.54	
10248.00	89.290	342.190	7228.99	2997.06	2725.23	-1302.14	1729497.48	14283602.83	39°20'1.4342"N	80°41'5.8599"W	3020.34	334.461	0.50	0.28	-0.41	
10342.00	91.790	342.240	7228.11	3091.04	2814.73	-1330.85	1729468.78	14283692.29	39°20'2.3198"N	80°41'6.2213"W	3113.49	334.694	2.66	2.66	0.05	
10437.00	89.450	339.300	7227.08	3186.01	2904.40	-1362.13	1729437.51	14283781.93	39°20'3.2072"N	80°41'6.6155"W	3207.95	334.874	3.96	-2.46	-3.09	
10532.00	89.570	341.900	7227.89	3280.98	2994.00	-1393.68	1729405.97	14283871.49	39°20'4.0938"N	80°41'7.0130"W	3302.48	335.038	2.74	0.13	2.74	

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Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## WELLPATH DATA (167 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
10627.00	90.520	342.530	7227.82	3375.97	3084.46	-1422.70	1729376.97	14283961.92	39°20'4.9888"N	80°41'7.3783"W	3396.76	335.239	1.20	1.00	0.66	
10721.00	89.690	343.260	7227.65	3469.95	3174.30	-1450.35	1729349.33	14284051.72	39°20'5.8777"N	80°41'7.7262"W	3489.94	335.444	1.18	-0.88	0.78	
10816.00	88.800	340.840	7228.90	3564.93	3264.66	-1479.62	1729320.07	14284142.05	39°20'6.7718"N	80°41'8.0947"W	3584.31	335.619	2.71	-0.94	-2.55	
10911.00	89.050	340.880	7230.68	3659.90	3354.39	-1510.76	1729288.94	14284231.74	39°20'7.6598"N	80°41'8.4871"W	3678.91	335.754	0.27	0.26	0.04	
11006.00	89.450	340.600	7231.92	3754.88	3444.07	-1542.10	1729257.62	14284321.38	39°20'8.5472"N	80°41'8.8819"W	3773.55	335.879	0.51	0.42	-0.29	
11100.00	89.850	340.430	7232.50	3848.87	3532.68	-1573.45	1729226.28	14284409.96	39°20'9.4241"N	80°41'9.2770"W	3867.24	335.992	0.46	0.43	-0.18	
11195.00	90.180	341.260	7232.47	3943.86	3622.42	-1604.62	1729195.12	14284499.67	39°20'10.3121"N	80°41'9.6698"W	3961.91	336.108	0.94	0.35	0.87	
11290.00	90.950	341.990	7231.54	4038.85	3712.57	-1634.57	1729165.18	14284589.78	39°20'11.2041"N	80°41'10.0469"W	4056.48	336.237	1.12	0.81	0.77	
11384.00	88.740	341.490	7231.79	4132.84	3801.83	-1664.02	1729135.74	14284679.01	39°20'12.0873"N	80°41'10.4178"W	4150.05	336.362	2.41	-2.35	-0.53	
11479.00	89.230	343.680	7233.47	4227.81	3892.46	-1692.45	1729107.33	14284769.60	39°20'12.9840"N	80°41'10.7755"W	4244.48	336.501	2.36	0.52	2.31	
11574.00	88.520	342.430	7235.34	4322.76	3983.31	-1720.13	1729079.66	14284860.42	39°20'13.8830"N	80°41'11.1238"W	4338.85	336.644	1.51	-0.75	-1.32	
11668.00	91.420	341.040	7235.39	4416.74	4072.56	-1749.58	1729050.21	14284949.64	39°20'14.7661"N	80°41'11.4948"W	4432.47	336.752	3.42	3.09	-1.48	
11762.00	88.770	339.970	7235.23	4510.72	4161.17	-1780.95	1729018.86	14285038.20	39°20'15.6429"N	80°41'11.8901"W	4526.27	336.829	3.04	-2.82	-1.14	
11857.00	90.860	341.820	7235.54	4605.70	4250.92	-1812.04	1728987.78	14285127.93	39°20'16.5311"N	80°41'12.2818"W	4621.02	336.913	2.94	2.20	1.95	
11951.00	88.580	341.530	7236.00	4699.69	4340.15	-1841.59	1728958.24	14285217.12	39°20'17.4140"N	80°41'12.6540"W	4714.70	337.008	2.45	-2.43	-0.31	
12046.00	89.380	341.390	7237.69	4794.68	4430.20	-1871.80	1728928.05	14285307.14	39°20'18.3051"N	80°41'13.0344"W	4809.40	337.096	0.85	0.84	-0.15	
12141.00	90.250	343.390	7238.00	4889.66	4520.75	-1900.53	1728899.32	14285397.64	39°20'19.2009"N	80°41'13.3962"W	4904.00	337.198	2.30	0.92	2.11	
12235.00	88.680	339.560	7238.87	4983.64	4609.85	-1930.39	1728869.48	14285486.71	39°20'20.0826"N	80°41'13.7723"W	4997.72	337.278	4.40	-1.67	-4.07	
12330.00	89.690	342.110	7240.23	5078.61	4699.57	-1961.57	1728838.31	14285576.40	39°20'20.9704"N	80°41'14.1652"W	5092.52	337.345	2.89	1.06	2.68	
12519.00	88.250	342.030	7243.62	5267.57	4879.36	-2019.75	1728780.16	14285756.11	39°20'22.7494"N	80°41'14.8977"W	5280.86	337.514	0.76	-0.76	-0.04	
12613.00	89.450	342.330	7245.51	5361.54	4968.83	-2048.51	1728751.41	14285845.55	39°20'23.6346"N	80°41'15.2598"W	5374.54	337.595	1.32	1.28	0.32	
12708.00	89.410	341.880	7246.45	5456.53	5059.23	-2077.70	1728722.23	14285935.91	39°20'24.5291"N	80°41'15.6273"W	5469.24	337.673	0.48	-0.04	-0.47	
12802.00	89.200	341.290	7247.59	5550.53	5148.41	-2107.39	1728692.55	14286025.06	39°20'25.4115"N	80°41'16.0013"W	5563.02	337.739	0.67	-0.22	-0.63	
12897.00	89.750	341.930	7248.47	5645.52	5238.55	-2137.36	1728662.59	14286115.16	39°20'26.3035"N	80°41'16.3788"W	5657.80	337.804	0.89	0.58	0.67	
12992.00	88.520	341.590	7249.90	5740.51	5328.77	-2167.09	1728632.87	14286205.34	39°20'27.1961"N	80°41'16.7532"W	5752.57	337.870	1.34	-1.29	-0.36	
13086.00	89.200	341.480	7251.77	5834.49	5417.91	-2196.85	1728603.12	14286294.45	39°20'28.0782"N	80°41'17.1281"W	5846.36	337.928	0.73	0.72	-0.12	
13181.00	89.970	341.750	7252.46	5929.48	5508.06	-2226.82	1728573.17	14286384.56	39°20'28.9702"N	80°41'17.5055"W	5941.16	337.987	0.86	0.81	0.28	
13275.00	88.460	341.940	7253.75	6023.47	5597.37	-2256.10	1728543.89	14286473.84	39°20'29.8539"N	80°41'17.8744"W	6034.94	338.047	1.62	-1.61	0.20	
13370.00	89.540	341.700	7255.40	6118.46	5687.61	-2285.74	1728514.27	14286564.04	39°20'30.7468"N	80°41'18.2476"W	6129.72	338.106	1.16	1.14	-0.25	
13464.00	89.880	341.260	7255.88	6212.45	5776.74	-2315.59	1728484.42	14286653.14	39°20'31.6288"N	80°41'18.6237"W	6223.56	338.157	0.59	0.36	-0.47	

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# Actual Wellpath Report

Peter Unit 1H AWP Proj: 15015'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Peter Unit 1H
Field	Doddridge		API	47-017-06933-0000
Facility	Lemley Pad		Wellbore	Peter Unit 1H AWB
Slot	Slot D			

WELLPATH DATA (167 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
13559.00	89.970	342.070	7256.00	6307.45	5866.91	-2345.48	1728454.55	14286743.28	39°20'32.5211"N	80°41'19.0001"W	6318.38	338.209	0.86	0.09	0.85	
13653.00	90.030	342.380	7256.00	6401.45	5956.43	-2374.18	1728425.87	14286832.76	39°20'33.4067"N	80°41'19.3614"W	6412.15	338.268	0.34	0.06	0.33	
13748.00	90.060	341.700	7255.93	6496.44	6046.80	-2403.47	1728396.59	14286923.09	39°20'34.3009"N	80°41'19.7303"W	6506.95	338.323	0.72	0.03	-0.72	
13843.00	90.710	342.560	7255.29	6591.43	6137.21	-2432.62	1728367.45	14287013.47	39°20'35.1955"N	80°41'20.0974"W	6601.74	338.378	1.13	0.68	0.91	
13937.00	89.720	342.030	7254.94	6685.43	6226.76	-2461.21	1728338.87	14287102.98	39°20'36.0815"N	80°41'20.4573"W	6695.52	338.433	1.19	-1.05	-0.56	
14032.00	89.940	342.310	7255.22	6780.42	6317.19	-2490.29	1728309.79	14287193.38	39°20'36.9764"N	80°41'20.8236"W	6790.32	338.485	0.37	0.23	0.29	
14127.00	89.660	341.370	7255.55	6875.42	6407.46	-2519.90	1728280.20	14287283.61	39°20'37.8695"N	80°41'21.1965"W	6885.16	338.531	1.03	-0.29	-0.99	
14221.00	89.820	341.170	7255.98	6969.41	6496.48	-2550.09	1728250.03	14287372.60	39°20'38.7504"N	80°41'21.5768"W	6979.05	338.568	0.27	0.17	-0.21	
14315.00	89.720	341.590	7256.36	7063.41	6585.56	-2580.10	1728220.02	14287461.64	39°20'39.6318"N	80°41'21.9549"W	7072.94	338.606	0.46	-0.11	0.45	
14410.00	89.880	342.070	7256.69	7158.41	6675.82	-2609.72	1728190.41	14287551.87	39°20'40.5249"N	80°41'22.3280"W	7167.79	338.648	0.53	0.17	0.51	
14505.00	90.340	342.870	7256.50	7253.40	6766.41	-2638.34	1728161.81	14287642.42	39°20'41.4212"N	80°41'22.6883"W	7262.58	338.698	0.97	0.48	0.84	
14599.00	89.820	341.790	7256.37	7347.39	6855.97	-2666.87	1728133.29	14287731.95	39°20'42.3074"N	80°41'23.0475"W	7356.39	338.745	1.28	-0.55	-1.15	
14694.00	89.690	341.780	7256.78	7442.39	6946.21	-2696.56	1728103.60	14287822.15	39°20'43.2003"N	80°41'23.4216"W	7451.26	338.783	0.14	-0.14	-0.01	
14788.00	89.540	341.850	7257.41	7536.38	7035.51	-2725.90	1728074.28	14287911.42	39°20'44.0839"N	80°41'23.7911"W	7545.13	338.821	0.18	-0.16	0.07	
14882.00	90.090	341.810	7257.71	7630.38	7124.83	-2755.21	1728044.98	14288000.70	39°20'44.9676"N	80°41'24.1603"W	7639.00	338.858	0.59	0.59	-0.04	
14977.00	89.910	342.430	7257.71	7725.38	7215.24	-2784.38	1728015.82	14288091.07	39°20'45.8622"N	80°41'24.5276"W	7733.85	338.898	0.68	-0.19	0.65	
15015.00†	89.910	342.430	7257.77	7763.37	7251.46	-2795.85	1728004.36	14288127.29	39°20'46.2207"N	80°41'24.6720"W	7771.78	338.916	0.00	0.00	0.00	Projected MD at TD: 15015'

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# Actual Wellpath Report

Peter Unit 1H AWP Proj: 15015'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Peter Unit 1H
Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## HOLE & CASING SECTIONS - Ref Wellbore: Peter Unit 1H AWB Ref Wellpath: Peter Unit 1H AWP Proj: 15015'

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	-0.28	-0.11
17.5in Open Hole	130.00	904.00	774.00	130.00	903.99	-0.28	-0.11	-4.25	0.05
13.375in Casing Surface	30.00	884.00	854.00	30.00	883.99	0.00	0.00	-4.05	0.04
12.25in Open Hole	904.00	3336.00	2432.00	903.99	3335.66	-4.25	0.05	14.17	4.43
9.625in Casing Intermediate	30.00	3316.00	3286.00	30.00	3315.66	0.00	0.00	14.01	4.52
8.75in Open Hole	3336.00	6425.00	3089.00	3335.66	6388.27	14.17	4.43	-381.15	-192.01
8.5in Open Hole	6425.00	15015.00	8590.00	6388.27	7257.77	-381.15	-192.01	7251.46	-2795.85
5.5in Casing Production	30.00	14995.00	14965.00	30.00	7257.74	0.00	0.00	7232.40	-2789.81

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Peter Unit 1H AWP Proj: 15015'

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Field	Doddridge	API	47-017-06933-0000
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Slot	Slot D		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Peter Unit 1H POE Rev-2	7174.00	15.98	-398.12	1730401.15	14280894.64	39°19'34.6258"N	80°40'54.4763"W	point
Peter Unit 1H BHL Rev-2	7218.00	7386.84	-2853.03	1727947.20	14288262.61	39°20'47.5606"N	80°41'25.3939"W	point
Peter Unit 1H BHL Rev-3	7218.00	7264.76	-2812.37	1727987.84	14288140.58	39°20'46.3526"N	80°41'24.8817"W	point
Peter Unit 1H LP Rev-2	7218.00	250.47	-476.22	1730323.08	14281129.05	39°19'36.9462"N	80°40'55.4596"W	point
Peter Unit 1H 50' L/R Hard Line Rev-2	7500.00	3640.37	-1605.24	1729194.50	14284517.61	39°20'10.4895"N	80°41'9.6769"W	rectangle
2D Rectangle 7640.26 x 100.								

## WELLPATH COMPOSITION - Ref Wellbore: Peter Unit 1H AWB Ref Wellpath: Peter Unit 1H AWP Proj: 15015'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	920.00	Gyrodata 2015 - GC+WR+DPIPE	02 Gyrodata MS Gyro <17-1/2"> (100'-920')	Peter Unit 1H AWB	11/6/2022
920.00	3263.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (920')(1040'-3263')	Peter Unit 1H AWB	10/25/2022
3263.00	6350.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (3263')(3413'-6350')	Peter Unit 1H AWB	11/30/2022
6350.00	15015.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (6350')(6464'-14977')	Peter Unit 1H AWB	11/30/2022

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Field	Doddridge	API	47-017-06933-0000
Facility	Lemley Pad	Wellbore	Peter Unit 1H AWB
Slot	Slot D		

## COMMENTS

**Wellpath general comments**  
 API: 47-017-06933-0000  
 BH Job #: 111534764  
 Rig: H&P 531  
 Duration: 12/6/2022-12/10/2022  
 Gyrodata MS Gyro <17-1/2"> (100'-920')  
 APS EM <12-1/4"> (920')(1040'-3263')  
 APS EM <8-3/4"> (3263')(3413'-6350')  
 BH AT Curve <8-1/2"> (6350')(6464'-14977')  
 Sycamore: 6812' MD  
 Middlesex: 6977' MD  
 Burkett: 7177' MD  
 Tully: 7222' MD  
 Hamilton: 7342' MD  
 Marcellus POE: 7406' MD  
 Projected MD at TD: 15015'

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