

ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV Slot: Slot #07
 Field: Doddridge Well: O'Donnell Unit 2H
 Facility: Alvadore Pad Wellbore: O'Donnell Unit 2H PWB

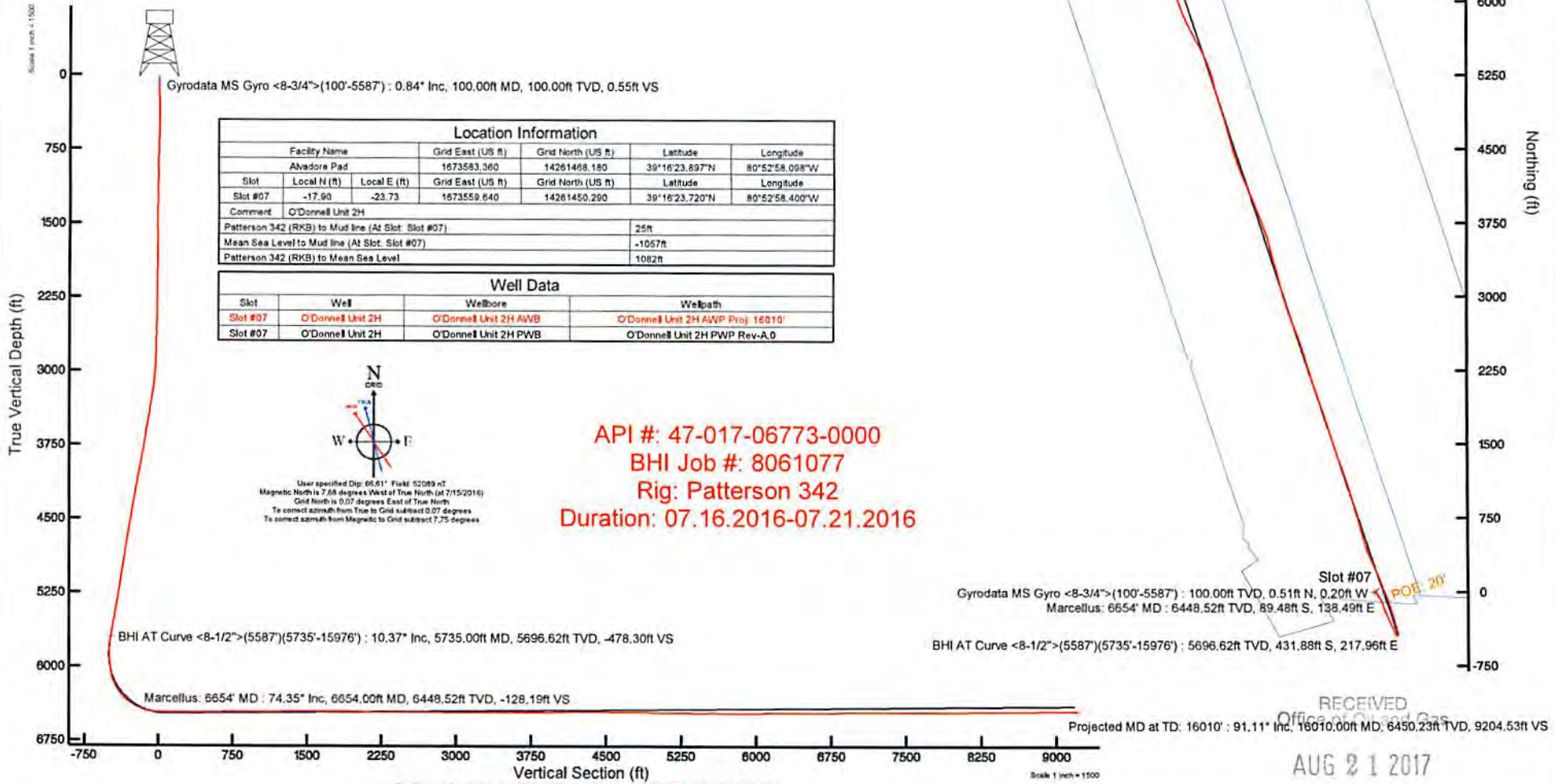


Scale 1 inch = 1500

Easting (ft)

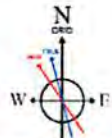
-3750 -3000 -2250 -1500 -750 0 750

Plot reference wellpath is O'Donnell Unit 2H PWB Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 342 (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to Patterson 342 (RKB)	North Reference: Grid north
Patterson 342 (RKB) to Mean Sea Level: 1082 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #07): -1057 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: harekuk on 2016-08-04
	Database: WA_MPL_EASTERNUS_Defn



Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Alvadore Pad	1673583.360	14261498.180	39°16'23.897"N	80°52'58.098"W
Slot #07	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
	-17.90	-23.73	1673559.640	14261450.290
			Latitude	Longitude
			39°16'23.720"N	80°52'58.400"W
Comment	O'Donnell Unit 2H			
Patterson 342 (RKB) to Mud line (At Slot: Slot #07)	25ft			
Mean Sea Level to Mud line (At Slot: Slot #07)	-1057ft			
Patterson 342 (RKB) to Mean Sea Level	1082ft			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #07	O'Donnell Unit 2H	O'Donnell Unit 2H AWB	O'Donnell Unit 2H AWP Proj: 16010'
Slot #07	O'Donnell Unit 2H	O'Donnell Unit 2H PWB	O'Donnell Unit 2H PWB Rev-A.0



User specified Dip: 66.81° Field: 52089-N
 Magnetic North is 7.68 degrees West of True North (at 7/15/2016)
 Grid North is 0.07 degrees East of True North
 To correct azimuth from True to Grid subtract 0.07 degrees
 To correct azimuth from Magnetic to Grid subtract 7.75 degrees

API #: 47-017-06773-0000
 BHI Job #: 8061077
 Rig: Patterson 342
 Duration: 07.16.2016-07.21.2016

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Actual Wellpath Report

O'Donnell Unit 2H AWP Proj: 16010
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #07
Area	Doddridge Co., WV		Well O'Donnell Unit 2H
Field	Doddridge		Wellbore O'Donnell Unit 2H AWB
Facility	Alvadore Pad		

WELLPATH DATA (185 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	338.210	0.00	0.00	0.00	0.00	1673559.64	14261450.29	39°16'23.720"N	80°52'58.400"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	338.210	25.00	0.00	0.00	0.00	1673559.64	14261450.29	39°16'23.720"N	80°52'58.400"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.840	338.210	100.00	0.55	0.51	-0.20	1673559.44	14261450.80	39°16'23.725"N	80°52'58.403"W	0.55	338.210	1.12	1.12	-29.05	Gyrodata MS Gyro <8-3/4">(100'-5587')
200.00	0.820	333.120	199.99	1.99	1.83	-0.80	1673558.84	14261452.12	39°16'23.738"N	80°52'58.410"W	2.00	336.388	0.08	-0.02	-5.09	
300.00	0.520	330.920	299.98	3.14	2.86	-1.34	1673558.30	14261453.15	39°16'23.748"N	80°52'58.417"W	3.16	334.866	0.30	-0.30	-2.20	
400.00	0.350	322.260	399.98	3.87	3.50	-1.75	1673557.89	14261453.79	39°16'23.755"N	80°52'58.422"W	3.92	333.433	0.18	-0.17	-8.66	
500.00	0.330	253.810	499.98	4.17	3.66	-2.21	1673557.43	14261453.95	39°16'23.756"N	80°52'58.428"W	4.28	328.845	0.38	-0.02	-68.45	
600.00	1.230	153.000	599.97	3.12	2.63	-2.00	1673557.64	14261452.92	39°16'23.746"N	80°52'58.425"W	3.30	322.660	1.33	0.90	-100.81	
700.00	1.940	141.300	699.93	0.48	0.35	-0.46	1673559.18	14261450.64	39°16'23.723"N	80°52'58.406"W	0.58	307.324	0.78	0.71	-11.70	
800.00	1.970	114.230	799.87	-2.27	-1.88	2.17	1673561.81	14261448.61	39°16'23.703"N	80°52'58.372"W	2.74	127.730	0.92	0.03	-27.07	
900.00	2.060	100.630	899.81	-4.29	-2.71	5.50	1673565.14	14261447.58	39°16'23.693"N	80°52'58.330"W	6.13	116.258	0.49	0.09	-13.60	
1000.00	2.310	99.680	999.74	-6.10	-3.38	9.25	1673568.89	14261446.91	39°16'23.686"N	80°52'58.282"W	9.85	110.087	0.25	0.25	-0.95	
1100.00	2.110	109.450	1099.66	-8.16	-4.34	12.98	1673572.61	14261445.96	39°16'23.677"N	80°52'58.235"W	13.68	108.477	0.43	-0.20	9.77	
1200.00	1.750	118.390	1199.61	-10.40	-5.68	16.06	1673575.69	14261444.62	39°16'23.664"N	80°52'58.196"W	17.03	109.466	0.47	-0.36	8.94	
1300.00	1.110	136.190	1299.58	-12.38	-7.10	18.07	1673577.70	14261443.19	39°16'23.650"N	80°52'58.170"W	19.41	111.451	0.77	-0.64	17.80	
1400.00	0.390	130.650	1399.57	-13.54	-8.02	19.00	1673578.63	14261442.27	39°16'23.640"N	80°52'58.159"W	20.62	112.889	0.72	-0.72	-5.54	
1500.00	0.580	352.730	1499.57	-13.35	-7.76	19.19	1673578.83	14261442.54	39°16'23.643"N	80°52'58.156"W	20.70	112.006	0.89	0.17	-137.92	
1600.00	0.980	324.610	1599.56	-12.06	-6.58	18.64	1673578.27	14261443.72	39°16'23.655"N	80°52'58.163"W	19.76	109.434	0.55	0.42	-28.12	
1700.00	0.400	334.890	1699.55	-10.89	-5.56	17.99	1673577.63	14261444.73	39°16'23.665"N	80°52'58.171"W	18.83	107.178	0.59	-0.58	10.28	
1800.00	0.460	107.100	1799.55	-10.78	-5.36	18.23	1673577.86	14261444.93	39°16'23.667"N	80°52'58.168"W	19.00	106.398	0.79	0.06	132.21	
1900.00	1.160	111.350	1899.54	-11.65	-5.85	19.56	1673579.19	14261444.44	39°16'23.662"N	80°52'58.151"W	20.41	106.657	0.70	0.70	4.25	
2000.00	0.960	115.430	1999.52	-12.88	-6.58	21.26	1673580.89	14261443.71	39°16'23.655"N	80°52'58.130"W	22.25	107.199	0.21	-0.20	4.08	
2100.00	0.780	113.830	2099.51	-13.91	-7.21	22.63	1673582.27	14261443.08	39°16'23.648"N	80°52'58.112"W	23.76	107.678	0.18	-0.18	-1.60	
2200.00	0.570	76.150	2199.50	-14.40	-7.37	23.74	1673583.37	14261442.92	39°16'23.647"N	80°52'58.098"W	24.86	107.246	0.48	-0.21	-37.68	
2300.00	0.650	65.260	2299.50	-14.37	-7.01	24.74	1673584.37	14261443.28	39°16'23.650"N	80°52'58.086"W	25.71	105.828	0.14	0.08	-10.89	
2400.00	0.560	118.490	2399.49	-14.66	-7.01	25.68	1673585.31	14261443.28	39°16'23.650"N	80°52'58.073"W	26.62	105.265	0.55	-0.09	53.23	
2500.00	1.870	159.450	2499.47	-16.65	-8.77	26.69	1673586.31	14261441.52	39°16'23.633"N	80°52'58.061"W	28.09	108.193	1.49	1.31	40.96	
2600.00	2.210	158.400	2599.41	-20.21	-12.09	27.97	1673587.60	14261438.20	39°16'23.600"N	80°52'58.045"W	30.47	113.379	0.34	0.34	-1.05	
2700.00	1.840	151.660	2699.34	-23.71	-15.30	29.44	1673589.07	14261435.00	39°16'23.568"N	80°52'58.026"W	33.18	117.456	0.44	-0.37	-6.74	
2800.00	1.380	148.910	2799.30	-26.46	-17.74	30.82	1673590.45	14261432.56	39°16'23.544"N	80°52'58.008"W	35.56	119.923	0.47	-0.46	-2.75	

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Actual Wellpath Report

O'Donnell Unit 2H AWP Proj: 16010'
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REFERENCE WELLPATH IDENTIFICATION					
Operator	ANTERO RESOURCES CORPORATION			Slot	Slot #07
Area	Doddridge Co., WV			Well	O'Donnell Unit 2H
Field	Doddridge			Wellbore	O'Donnell Unit 2H AWB
Facility	Alvadore Pad				

WELLPATH DATA (185 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
2900.00	2.240	146.990	2899.25	-29.53	-20.41	32.51	1673592.14	14261429.89	39°16'23.518"N	30°52'57.987"W	38.39	122.122	0.86	0.86	-1.92	
3000.00	3.560	148.220	2999.12	-34.43	-24.69	35.21	1673594.84	14261425.61	39°16'23.476"N	30°52'57.953"W	43.00	125.038	1.32	1.32	1.23	
3100.00	5.520	153.590	3098.80	-42.21	-31.64	38.99	1673598.61	14261418.67	39°16'23.407"N	30°52'57.905"W	50.21	129.060	2.00	1.96	5.37	
3200.00	8.080	148.850	3198.09	-53.82	-41.96	44.76	1673604.38	14261408.35	39°16'23.305"N	30°52'57.831"W	61.35	133.151	2.62	2.56	-4.74	
3300.00	9.490	148.690	3296.92	-68.70	-55.02	52.68	1673612.30	14261395.29	39°16'23.176"N	30°52'57.731"W	76.17	136.244	1.41	1.41	-0.16	
3400.00	9.510	150.710	3395.55	-84.83	-69.27	61.01	1673620.62	14261381.05	39°16'23.035"N	30°52'57.625"W	92.30	138.628	0.33	0.02	2.02	
3500.00	10.100	154.750	3494.09	-101.64	-84.40	68.79	1673628.40	14261365.92	39°16'22.885"N	30°52'57.527"W	108.88	140.820	0.91	0.59	4.04	
3600.00	9.280	160.460	3592.66	-118.40	-99.93	75.23	1673634.84	14261350.40	39°16'22.731"N	30°52'57.445"W	125.08	143.029	1.26	-0.82	5.71	
3700.00	9.210	158.230	3691.36	-134.45	-114.96	80.89	1673640.50	14261335.37	39°16'22.583"N	30°52'57.373"W	140.57	144.869	0.37	-0.07	-2.23	
3800.00	10.020	162.270	3789.96	-151.13	-130.68	86.51	1673646.11	14261319.66	39°16'22.427"N	30°52'57.302"W	156.72	146.497	1.05	0.81	4.04	
3900.00	10.210	163.090	3888.40	-168.69	-147.45	91.73	1673651.34	14261302.90	39°16'22.261"N	30°52'57.236"W	173.66	148.112	0.24	0.19	0.82	
4000.00	11.040	161.190	3986.69	-187.13	-164.99	97.40	1673657.00	14261285.36	39°16'22.088"N	30°52'57.164"W	191.60	149.445	0.90	0.83	-1.90	
4100.00	10.440	151.990	4084.94	-205.63	-182.06	104.74	1673664.34	14261268.31	39°16'21.919"N	30°52'57.071"W	210.04	150.087	1.81	-0.60	-9.20	
4200.00	10.010	157.270	4183.36	-223.22	-198.07	112.36	1673671.95	14261252.30	39°16'21.761"N	30°52'56.975"W	227.72	150.436	1.03	-0.43	5.28	
4300.00	11.130	155.740	4281.66	-241.48	-214.89	119.68	1673679.27	14261235.49	39°16'21.595"N	30°52'56.882"W	245.97	150.885	1.15	1.12	-1.53	
4400.00	10.220	159.570	4379.93	-259.95	-232.00	126.74	1673686.33	14261218.38	39°16'21.425"N	30°52'56.792"W	264.36	151.352	1.15	-0.91	3.83	
4500.00	9.420	152.070	4478.47	-276.88	-247.54	133.67	1673693.26	14261202.84	39°16'21.272"N	30°52'56.704"W	281.33	151.631	1.51	-0.80	-7.50	
4600.00	9.960	159.920	4577.04	-293.59	-262.90	140.48	1673700.06	14261187.50	39°16'21.120"N	30°52'56.618"W	298.08	151.883	1.43	0.54	7.85	
4700.00	9.280	157.160	4675.64	-310.26	-278.45	146.57	1673706.16	14261171.95	39°16'20.966"N	30°52'56.541"W	314.67	152.238	0.82	-0.68	-2.76	
4800.00	8.400	156.480	4774.45	-325.57	-292.58	152.62	1673712.20	14261157.83	39°16'20.826"N	30°52'56.464"W	329.99	152.452	0.89	-0.88	-0.68	
4900.00	9.350	153.390	4873.25	-340.88	-306.54	159.17	1673718.75	14261143.87	39°16'20.688"N	30°52'56.381"W	345.40	152.559	1.06	0.95	-3.09	
5000.00	9.930	154.070	4971.84	-357.46	-321.56	166.58	1673726.15	14261128.86	39°16'20.540"N	30°52'56.287"W	362.14	152.614	0.59	0.58	0.68	
5100.00	8.480	156.420	5070.55	-373.34	-336.07	173.30	1673732.87	14261114.35	39°16'20.396"N	30°52'56.202"W	378.12	152.721	1.50	-1.45	2.35	
5200.00	8.550	158.270	5169.45	-388.10	-349.73	179.00	1673738.57	14261100.70	39°16'20.251"N	30°52'56.130"W	392.88	152.895	0.28	0.07	1.85	
5300.00	9.160	157.940	5268.25	-403.46	-364.02	184.75	1673744.31	14261086.42	39°16'20.120"N	30°52'56.057"W	408.21	153.091	0.61	0.61	-0.33	
5400.00	10.030	156.870	5366.85	-420.08	-379.40	191.16	1673750.72	14261071.04	39°16'19.968"N	30°52'55.976"W	424.84	153.259	0.89	0.87	-1.07	
5500.00	9.870	155.520	5465.35	-437.27	-395.21	198.13	1673757.69	14261055.24	39°16'19.811"N	30°52'55.887"W	442.09	153.374	0.28	-0.16	-1.35	
5587.00	10.270	152.140	5551.01	-452.33	-408.85	204.84	1673764.40	14261041.60	39°16'19.676"N	30°52'55.802"W	457.30	153.388	0.82	0.46	-3.89	
5735.00	10.370	148.560	5696.62	-478.30	-431.88	217.96	1673777.51	14261018.58	39°16'19.449"N	30°52'55.636"W	483.76	153.222	0.44	0.07	-2.42	BHI AT Curve <8-1/2">(5587)(5735-15976)
5783.00	9.670	147.430	5743.89	-486.41	-438.96	222.38	1673781.93	14261011.50	39°16'19.379"N	30°52'55.580"W	492.08	153.133	1.51	-1.46	-2.35	

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Operator	ANTERO RESOURCES CORPORATION
Area	Doddrige Co., WV
Field	Doddrige
Facility	Alvordre Pad
Slot	Slot #07
Well	O'Donnell Unit 2H
	O'Donnell Unit 2H AWP

WELLPATH DATA (185 stations) † = interpolated/extrapolated station																	
MD	Inclination	Azimuth	TVD	Vert Sect	North	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
5630.00	7.320	120.210	5790.38	-492.73	-444.14	226.86	1673786.41	14261006.32	39°16'19.327"N	80°52'55.523"W	498.73	152.943	7.78	-5.00	-40.89		
5678.00	5.660	94.230	5638.08	-496.18	-446.21	231.62	1673791.17	14261004.26	39°16'19.307"N	80°52'55.462"W	502.75	152.567	8.55	-3.46	-70.79		
5925.00	5.620	50.230	5884.88	-496.21	-444.91	235.71	1673795.25	14261005.58	39°16'19.320"N	80°52'55.410"W	503.49	152.086	8.98	-0.09	-93.62		
5972.00	6.660	29.750	5931.61	-493.54	-441.07	238.83	1673798.37	14261009.40	39°16'19.357"N	80°52'55.370"W	501.58	151.566	5.12	2.21	-43.57		
6019.00	6.850	17.740	5978.28	-496.44	-436.03	241.03	1673800.58	14261014.43	39°16'19.407"N	80°52'55.342"W	498.22	151.067	3.03	0.40	-25.56		
6067.00	8.370	4.940	6025.87	-483.91	-429.83	242.21	1673801.75	14261020.64	39°16'19.469"N	80°52'55.327"W	493.37	150.599	4.72	3.17	-26.67		
6114.00	11.800	353.240	6072.14	-476.05	-421.64	241.94	1673801.48	14261028.82	39°16'19.549"N	80°52'55.331"W	486.12	150.153	8.46	7.30	-24.89		
6161.00	16.280	343.450	6117.73	-464.74	-410.56	239.49	1673799.04	14261039.91	39°16'19.669"N	80°52'55.361"W	475.30	149.743	10.76	8.53	-20.83		
6210.00	22.660	341.570	6163.90	-448.42	-394.99	234.55	1673794.09	14261055.45	39°16'19.813"N	80°52'55.424"W	459.38	149.298	13.08	13.02	-3.84		
6255.00	28.030	342.660	6204.56	-429.17	-376.66	228.66	1673788.20	14261073.78	39°16'19.994"N	80°52'55.499"W	440.63	148.741	11.98	11.93	2.42		
6307.00	33.160	344.170	6249.31	-402.72	-351.30	221.12	1673780.68	14261099.13	39°16'20.245"N	80°52'55.594"W	415.10	147.812	9.97	9.87	2.90		
6337.00†	36.090	344.213	6273.99	-385.69	-334.90	216.48	1673776.03	14261115.52	39°16'20.407"N	80°52'55.653"W	398.78	147.121	9.77	9.77	0.14	Middlesex: 6337' MD	
6350.00	37.360	344.230	6284.41	-377.92	-327.42	214.37	1673773.92	14261123.00	39°16'20.481"N	80°52'55.680"W	391.35	146.787	9.77	9.77	0.13		
6397.00	44.310	344.140	6319.95	-347.24	-297.87	206.00	1673765.55	14261152.54	39°16'20.773"N	80°52'55.786"W	362.16	145.334	14.79	14.79	-0.19		
6444.00	49.590	344.260	6352.02	-312.93	-264.83	196.65	1673758.21	14261185.56	39°16'21.100"N	80°52'55.904"W	329.86	143.405	11.24	11.23	0.26		
6491.00	56.360	344.480	6380.31	-275.45	-228.81	186.22	1673745.78	14261221.57	39°16'21.456"N	80°52'56.036"W	295.01	140.860	14.46	14.40	-1.66		
6511.00†	58.377	342.652	6391.09	-258.62	-212.70	181.31	1673740.88	14261237.67	39°16'21.615"N	80°52'56.098"W	279.49	139.555	10.67	10.09	-4.14	Burkett: 6511' MD	
6529.00	61.210	341.550	6405.18	-234.42	-189.68	173.87	1673733.44	14261260.69	39°16'22.1843"N	80°52'56.192"W	257.31	137.489	10.67	10.12	-3.93		
6571.00†	65.063	340.762	6419.63	-205.88	-162.67	164.65	1673724.22	14261287.69	39°16'22.110"N	80°52'56.309"W	231.45	134.653	12.24	12.04	-2.46	Tully: 6571' MD	
6586.00	66.870	340.410	6425.74	-192.19	-149.75	160.10	1673719.67	14261300.60	39°16'22.238"N	80°52'56.367"W	219.22	133.087	12.24	12.05	-2.35		
6631.00†	71.456	340.247	6441.74	-150.16	-110.16	145.94	1673705.52	14261340.18	39°16'22.629"N	80°52'56.546"W	182.85	127.045	10.20	10.19	-0.36	Hamilton: 6631' MD	
6633.00	71.660	340.240	6442.38	-148.26	-108.37	145.30	1673704.88	14261341.96	39°16'22.647"N	80°52'56.554"W	181.26	126.717	10.20	10.19	-0.35		
6654.00†	74.346	340.080	6448.52	-128.19	-89.48	138.49	1673698.07	14261360.84	39°16'22.834"N	80°52'56.641"W	164.88	122.868	12.81	12.79	-0.76	Marcellus: 6654' MD	
6681.00	77.800	339.880	6455.01	-102.00	-64.86	129.52	1673689.10	14261385.45	39°16'23.077"N	80°52'56.754"W	144.85	116.602	12.81	12.79	-0.74		
6727.00	81.700	339.490	6463.20	-56.77	-22.42	113.80	1673673.40	14261427.88	39°16'23.497"N	80°52'56.953"W	115.99	101.146	8.52	8.48	-0.69		
6744.00	86.670	339.410	6467.96	-10.07	21.35	97.39	1673656.99	14261471.63	39°16'23.930"N	80°52'57.161"W	99.71	77.637	10.58	10.57	-0.17		
6822.00	90.000	339.550	6469.35	37.86	66.28	80.58	1673640.19	14261516.54	39°16'24.374"N	80°52'57.374"W	104.33	50.562	6.94	6.94	0.28		
6916.00	89.850	338.570	6469.47	131.75	154.07	46.98	1673609.60	14261604.30	39°16'25.242"N	80°52'57.800"W	161.07	16.959	1.05	-0.16	-1.04		
7010.00	91.170	335.380	6468.64	225.39	240.56	10.22	1673569.86	14261690.76	39°16'26.098"N	80°52'58.266"W	240.78	2.434	3.67	1.40	-3.36		
7104.00	90.250	336.390	6467.47	318.88	326.35	-28.18	1673531.47	14261776.51	39°16'26.946"N	80°52'58.753"W	327.56	355.065	1.45	-0.98	1.07		

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Actual Wellpath Report

O'Donnell Unit 2H AWP Proj: 16010'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Doddridge Co., WV	Well	O'Donnell Unit 2H
Field	Doddridge	Wellbore	O'Donnell Unit 2H AWP
Facility	Alvadore Pad		

WELLPATH DATA (185 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
7198.00	90.460	338.720	6466.89	412.61	413.22	-84.06	1673495.60	14261863.35	39°16'27.805"N	80°52'59.208"W	418.16	351.187	2.49	0.22	2.48	
7292.00	90.590	343.810	6466.03	506.57	502.21	-94.24	1673465.43	14261952.30	39°16'28.685"N	80°52'59.590"W	510.97	349.372	5.42	0.14	5.41	
7387.00	90.520	346.230	6465.11	601.41	593.97	-118.80	1673440.89	14262044.02	39°16'29.592"N	80°52'59.901"W	605.73	348.690	2.55	-0.07	2.55	
7481.00	90.550	344.300	6464.23	695.23	684.87	-142.70	1673416.99	14262134.88	39°16'30.491"N	80°53'00.203"W	699.58	348.230	2.05	0.03	-2.05	
7576.00	90.430	343.720	6463.42	790.16	776.19	-168.87	1673390.84	14262226.17	39°16'31.394"N	80°53'00.535"W	794.35	347.726	0.62	-0.13	-0.61	
7670.00	90.490	344.330	6462.66	884.09	866.56	-194.74	1673364.98	14262316.50	39°16'32.287"N	80°53'00.862"W	888.17	347.334	0.65	0.06	0.65	
7764.00	90.590	344.360	6461.78	977.99	957.06	-220.11	1673339.62	14262406.97	39°16'33.182"N	80°53'01.183"W	982.05	347.048	0.11	0.11	0.03	
7859.00	90.550	344.290	6460.83	1072.90	1048.53	-245.77	1673313.97	14262498.40	39°16'34.086"N	80°53'01.508"W	1076.95	346.808	0.08	-0.04	-0.07	
7953.00	90.460	342.710	6460.00	1166.85	1138.65	-272.47	1673287.28	14262588.48	39°16'34.978"N	80°53'01.846"W	1170.80	346.543	1.68	-0.10	-1.68	
8047.00	90.220	340.750	6459.45	1260.85	1227.91	-301.93	1673257.83	14262677.70	39°16'35.860"N	80°53'02.219"W	1264.48	346.185	2.10	-0.26	-2.09	
8142.00	90.220	338.650	6459.08	1355.77	1317.00	-334.89	1673224.88	14262766.76	39°16'36.741"N	80°53'02.637"W	1358.91	345.733	2.21	0.00	-2.21	
8236.00	90.060	340.790	6458.85	1449.70	1405.17	-367.47	1673192.32	14262854.89	39°16'37.613"N	80°53'03.050"W	1452.42	345.345	2.28	-0.17	2.28	
8330.00	90.180	342.550	6458.65	1543.70	1494.39	-397.03	1673162.77	14262944.08	39°16'38.495"N	80°53'03.424"W	1546.24	345.121	1.88	0.13	1.87	
8425.00	90.150	342.880	6458.38	1638.69	1585.10	-425.26	1673134.55	14263034.76	39°16'39.392"N	80°53'03.782"W	1641.16	344.982	0.35	-0.03	0.35	
8519.00	90.120	343.100	6458.16	1732.67	1674.99	-452.76	1673107.07	14263124.61	39°16'40.281"N	80°53'04.130"W	1735.10	344.874	0.24	-0.03	0.23	
8613.00	89.720	342.750	6458.29	1826.65	1764.85	-480.36	1673079.48	14263214.43	39°16'41.169"N	80°53'04.479"W	1829.05	344.774	0.57	-0.43	-0.37	
8708.00	89.600	340.840	6458.85	1921.65	1855.09	-510.03	1673049.81	14263304.63	39°16'42.062"N	80°53'04.855"W	1923.92	344.627	2.01	-0.13	-2.01	
8802.00	89.660	340.700	6459.46	2015.63	1943.84	-540.99	1673018.86	14263393.35	39°16'42.939"N	80°53'05.248"W	2017.72	344.447	0.16	0.06	-0.15	
8897.00	89.540	341.710	6460.12	2110.62	2033.77	-571.60	1672988.27	14263483.24	39°16'43.828"N	80°53'05.635"W	2112.57	344.302	1.07	-0.13	1.06	
8991.00	89.690	342.370	6460.76	2204.62	2123.19	-600.58	1672959.30	14263572.63	39°16'44.713"N	80°53'06.002"W	2206.50	344.205	0.72	0.16	0.70	
9086.00	89.750	343.070	6461.22	2299.60	2213.90	-628.80	1672931.09	14263663.30	39°16'45.610"N	80°53'06.360"W	2301.46	344.144	0.74	0.06	0.74	
9180.00	89.720	343.690	6461.66	2393.57	2303.97	-655.69	1672904.21	14263753.34	39°16'46.500"N	80°53'06.700"W	2395.45	344.114	0.66	-0.03	0.66	
9275.00	89.880	342.530	6461.99	2488.54	2394.87	-683.29	1672876.63	14263844.20	39°16'47.399"N	80°53'07.050"W	2490.44	344.076	1.23	0.17	-1.22	
9369.00	89.970	342.650	6462.11	2582.53	2484.56	-711.41	1672848.51	14263933.86	39°16'48.286"N	80°53'07.406"W	2584.41	344.022	0.16	0.10	0.13	
9464.00	89.630	340.140	6462.44	2677.52	2574.59	-741.72	1672818.22	14264023.85	39°16'49.176"N	80°53'07.790"W	2679.30	343.929	2.67	-0.36	-2.64	
9558.00	89.230	338.150	6463.38	2771.41	2662.42	-775.18	1672784.77	14264111.65	39°16'50.044"N	80°53'08.214"W	2772.98	343.767	2.16	-0.43	-2.12	
9653.00	89.290	339.120	6464.60	2866.25	2750.89	-809.79	1672750.18	14264200.07	39°16'50.919"N	80°53'08.653"W	2867.60	343.597	1.02	0.06	1.02	
9747.00	89.350	340.260	6465.72	2960.18	2839.03	-842.41	1672717.57	14264288.19	39°16'51.791"N	80°53'09.066"W	2961.38	343.473	1.21	0.06	1.21	
9841.00	90.490	342.340	6465.85	3054.17	2928.06	-872.55	1672687.44	14264377.18	39°16'52.671"N	80°53'09.448"W	3055.31	343.406	2.52	1.21	2.21	
9935.00	89.480	343.390	6465.88	3148.15	3017.89	-900.24	1672659.76	14264466.97	39°16'53.559"N	80°53'09.799"W	3149.30	343.390	1.55	-1.07	1.12	

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O'Donnell Unit 2H AWP Proj: 16010'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Doddridge Co., WV	Well	O'Donnell Unit 2H
Field	Doddridge	Wellbore	O'Donnell Unit 2H AWB
Facility	Alvadore Pad		

WELLPATH DATA (185 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (°/100ft)	Comments
10030.00	91.200	345.970	6465.31	3243.02	3109.50	-925.34	1672634.67	14264558.55	39°16'54.465"N	80°53'10.116"W	3244.26	343.428	3.26	1.81	2.72	
10124.00	89.290	346.110	6464.91	3336.76	3200.72	-948.01	1672612.01	14264549.73	39°16'55.367"N	80°53'10.403"W	3338.16	343.501	2.04	-2.03	0.15	
10218.00	89.480	344.370	6465.92	3430.59	3291.61	-971.96	1672588.07	14264740.58	39°16'56.266"N	80°53'10.706"W	3432.11	343.549	1.85	0.20	-1.85	
10313.00	89.750	345.080	6466.56	3525.45	3383.25	-996.99	1672563.05	14264832.18	39°16'57.172"N	80°53'11.023"W	3527.09	343.581	0.80	0.28	0.75	
10407.00	90.120	345.450	6466.66	3619.29	3474.16	-1020.90	1672539.15	14264923.06	39°16'58.071"N	80°53'11.326"W	3621.05	343.624	0.56	0.39	0.39	
10502.00	89.630	343.560	6466.87	3714.19	3565.70	-1048.27	1672513.79	14265014.56	39°16'58.976"N	80°53'11.647"W	3716.03	343.647	2.06	-0.52	-1.99	
10596.00	90.120	340.090	6467.08	3808.17	3655.00	-1075.59	1672484.48	14265103.82	39°16'59.859"N	80°53'12.018"W	3809.97	343.602	3.73	0.52	-3.66	
10691.00	90.990	338.480	6466.16	3903.07	3743.85	-1109.19	1672450.89	14265192.09	39°17'00.737"N	80°53'12.444"W	3904.70	343.497	1.93	0.92	-1.69	
10785.00	91.540	338.700	6464.08	3996.89	3831.34	-1143.49	1672416.60	14265280.89	39°17'01.602"N	80°53'12.879"W	3998.34	343.382	0.63	0.59	0.23	
10879.00	93.390	338.320	6460.04	4090.84	3918.72	-1177.90	1672382.21	14265367.44	39°17'02.466"N	80°53'13.315"W	4091.92	343.270	2.01	1.97	-0.40	
10974.00	89.660	337.340	6457.51	4185.36	4006.65	-1213.73	1672346.40	14265455.33	39°17'03.336"N	80°53'13.770"W	4186.45	343.147	4.06	-3.93	-1.03	
11068.00	89.630	337.750	6458.09	4279.09	4093.52	-1249.63	1672310.51	14265542.17	39°17'04.195"N	80°53'14.225"W	4280.01	343.024	4.44	-0.03	0.44	
11162.00	89.970	337.070	6458.42	4372.81	4180.31	-1285.74	1672274.42	14265628.92	39°17'05.053"N	80°53'14.683"W	4373.57	342.904	0.81	0.36	-0.72	
11256.00	89.350	337.830	6458.98	4466.53	4267.12	-1321.79	1672238.38	14265715.70	39°17'05.912"N	80°53'15.140"W	4467.15	342.789	1.04	-0.66	0.81	
11351.00	89.230	341.310	6460.16	4561.44	4356.12	-1354.94	1672205.24	14265804.66	39°17'06.792"N	80°53'15.560"W	4561.98	342.722	3.67	-0.13	3.66	
11445.00	89.380	342.430	6461.30	4655.43	4445.45	-1384.41	1672176.01	14265893.95	39°17'07.675"N	80°53'15.931"W	4655.96	342.705	1.20	0.16	1.19	
11540.00	89.350	344.070	6462.35	4750.39	4536.41	-1411.56	1672148.64	14265984.88	39°17'08.574"N	80°53'16.277"W	4750.95	342.716	1.73	-0.03	1.73	
11634.00	89.230	344.850	6463.51	4844.28	4626.96	-1436.74	1672123.47	14266075.40	39°17'09.470"N	80°53'16.596"W	4844.90	342.750	0.84	-0.13	0.83	
11729.00	89.200	344.210	6464.82	4939.17	4718.51	-1462.08	1672098.14	14266166.91	39°17'10.375"N	80°53'16.917"W	4939.84	342.784	0.67	-0.03	-0.67	
11823.00	89.260	343.620	6466.08	5033.10	4808.82	-1488.12	1672072.11	14266257.19	39°17'11.268"N	80°53'17.247"W	5033.81	342.805	0.63	0.06	-0.63	
11917.00	89.910	341.920	6466.76	5127.08	4898.60	-1515.96	1672044.28	14266346.93	39°17'12.155"N	80°53'17.599"W	5127.81	342.804	1.94	0.69	-1.81	
12011.00	89.050	342.940	6467.61	5221.07	4988.21	-1544.34	1672015.92	14266436.50	39°17'13.041"N	80°53'17.959"W	5221.80	342.798	1.42	-0.91	1.06	
12106.00	89.020	344.570	6469.21	5316.00	5079.40	-1570.91	1671989.38	14266527.65	39°17'13.943"N	80°53'18.295"W	5316.77	342.815	1.72	-0.03	1.72	
12200.00	89.600	346.610	6470.34	5409.79	5170.43	-1594.30	1671965.99	14266618.65	39°17'14.843"N	80°53'18.591"W	5410.65	342.863	2.26	0.62	2.17	
12295.00	90.890	342.760	6469.94	5504.65	5262.04	-1619.37	1671940.92	14266710.22	39°17'15.749"N	80°53'18.909"W	5505.58	342.894	4.25	1.36	-4.03	
12389.00	89.540	337.070	6469.59	5598.55	5350.29	-1651.62	1671908.68	14266798.44	39°17'16.621"N	80°53'19.318"W	5599.42	342.845	6.24	-1.44	-6.07	
12484.00	90.030	337.030	6469.22	5437.77	5177.17	-1688.66	1671871.65	14266885.88	39°17'17.486"N	80°53'19.787"W	5693.94	342.748	0.52	0.52	-0.04	
12578.00	89.970	331.660	6469.94	5786.39	5522.48	-1729.33	1671831.00	14266970.56	39°17'18.324"N	80°53'20.303"W	5786.91	342.612	5.69	-0.06	-5.69	
12672.00	90.000	332.030	6469.97	5878.96	5605.36	-1773.67	1671786.68	14267053.41	39°17'19.144"N	80°53'20.866"W	5879.29	342.441	0.37	0.03	0.37	
12767.00	90.180	333.370	6469.82	5972.75	5689.78	-1817.24	1671743.13	14267137.79	39°17'19.979"N	80°53'21.419"W	5972.94	342.287	1.42	0.19	1.41	



Actual Wellpath Report

O'Donnell Unit 2H AWP Proj: 16010'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Doddridge Co., WV	Well	O'Donnell Unit 2H
Field	Doddridge	Wellbore	O'Donnell Unit 2H AWP
Facility	Alvadore Pad		

WELLPATH DATA (185 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
12861.00	90.060	334.520	6469.62	6065.86	5774.23	-1858.53	1671701.86	14267222.20	39°17'20.814"N	80°53'21.942"W	6065.96	342.158	1.23	-0.13	1.22	
12956.00	90.000	336.630	6469.57	6160.29	5860.72	-1897.81	1671662.59	14267308.66	39°17'21.669"N	80°53'22.441"W	6160.33	342.057	2.22	-0.06	2.22	
13050.00	90.430	340.270	6469.22	6254.11	5948.13	-1932.33	1671628.08	14267396.04	39°17'22.534"N	80°53'22.878"W	6254.13	342.003	3.90	0.46	3.87	
13144.00	90.550	342.530	6468.41	6348.10	6037.21	-1962.31	1671598.12	14267485.08	39°17'23.415"N	80°53'23.258"W	6348.12	341.994	2.41	0.13	2.40	
13238.00	90.490	347.660	6467.56	6441.91	6128.02	-1986.48	1671573.96	14267575.85	39°17'24.312"N	80°53'23.564"W	6441.95	342.039	5.46	-0.06	5.46	
13332.00	90.550	351.390	6466.71	6535.04	6220.43	-2003.57	1671556.88	14267668.23	39°17'25.226"N	80°53'23.780"W	6535.14	342.147	3.97	0.06	3.97	
13427.00	90.580	350.270	6465.77	6628.87	6314.21	-2018.70	1671541.74	14267761.97	39°17'26.153"N	80°53'23.971"W	6629.06	342.270	1.18	0.03	-1.18	
13521.00	90.220	348.000	6465.11	6722.10	6406.52	-2036.42	1671524.03	14267854.24	39°17'27.066"N	80°53'24.195"W	6722.39	342.366	2.45	-0.38	-2.41	
13615.00	90.280	346.070	6464.70	6815.71	6498.11	-2057.51	1671502.95	14267945.80	39°17'27.971"N	80°53'24.462"W	6816.07	342.431	2.05	0.06	-2.05	
13709.00	90.280	348.210	6464.24	6909.30	6589.75	-2078.43	1671482.04	14268037.40	39°17'28.877"N	80°53'24.727"W	6909.75	342.495	2.28	0.00	2.28	
13804.00	90.250	348.110	6463.80	7003.72	6682.73	-2097.92	1671462.56	14268130.34	39°17'29.796"N	80°53'24.973"W	7004.29	342.571	0.11	-0.03	-0.11	
13898.00	90.250	347.780	6463.39	7097.19	6774.65	-2117.55	1671442.94	14268222.23	39°17'30.705"N	80°53'25.221"W	7097.89	342.642	0.35	0.00	-0.35	
13993.00	90.220	345.690	6463.00	7191.84	6867.11	-2139.35	1671421.15	14268314.65	39°17'31.619"N	80°53'25.497"W	7192.64	342.696	2.20	-0.03	-2.20	
14087.00	90.250	338.720	6462.62	7285.78	6956.56	-2168.06	1671392.45	14268404.06	39°17'32.504"N	80°53'25.861"W	7286.58	342.690	7.41	0.03	-7.41	
14181.00	90.220	337.350	6462.23	7379.57	7043.73	-2203.22	1671357.30	14268491.20	39°17'33.366"N	80°53'26.307"W	7380.27	342.631	1.46	-0.03	-1.46	
14276.00	90.180	337.330	6461.90	7474.27	7131.40	-2239.82	1671320.72	14268578.83	39°17'34.232"N	80°53'26.771"W	7474.87	342.564	0.05	-0.04	-0.02	
14370.00	90.120	334.680	6461.66	7567.78	7217.27	-2278.04	1671282.51	14268664.67	39°17'35.082"N	80°53'27.256"W	7568.25	342.482	2.82	-0.06	-2.82	
14465.00	90.220	335.120	6461.37	7662.08	7303.30	-2318.34	1671242.23	14268750.66	39°17'35.932"N	80°53'27.767"W	7662.43	342.389	0.47	0.11	0.46	
14559.00	90.220	337.630	6461.01	7755.64	7389.41	-2356.01	1671204.58	14268836.74	39°17'36.784"N	80°53'28.245"W	7755.91	342.316	2.67	0.00	2.67	
14653.00	90.220	337.800	6460.65	7849.40	7476.39	-2391.65	1671168.95	14268923.68	39°17'37.644"N	80°53'28.697"W	7849.61	342.261	0.18	0.00	0.18	
14748.00	90.150	340.780	6460.34	7944.30	7565.24	-2425.24	1671135.37	14269012.50	39°17'38.523"N	80°53'29.123"W	7944.47	342.225	3.14	-0.07	3.14	
14842.00	90.310	344.460	6459.97	8038.27	7654.93	-2453.32	1671107.31	14269102.16	39°17'39.409"N	80°53'29.478"W	8038.46	342.230	3.92	0.17	3.91	
14936.00	90.250	343.600	6459.51	8132.20	7745.30	-2479.18	1671081.45	14269192.49	39°17'40.303"N	80°53'29.806"W	8132.41	342.251	0.92	-0.06	-0.91	
15031.00	90.400	342.840	6458.97	8227.17	7836.26	-2506.60	1671054.04	14269283.41	39°17'41.202"N	80°53'30.154"W	8227.39	342.262	0.82	0.16	-0.80	
15126.00	90.400	341.670	6458.31	8322.16	7926.73	-2535.56	1671025.10	14269373.85	39°17'42.097"N	80°53'30.520"W	8322.39	342.262	1.23	0.00	-1.23	
15220.00	90.460	343.300	6457.60	8416.15	8016.37	-2563.85	1670996.82	14269463.45	39°17'42.983"N	80°53'30.879"W	8416.38	342.264	1.74	0.06	1.73	
15315.00	90.460	346.010	6456.84	8511.02	8107.97	-2588.98	1670971.69	14269555.01	39°17'43.889"N	80°53'31.197"W	8511.29	342.291	2.85	0.00	2.85	
15409.00	90.490	346.720	6456.06	8604.73	8199.32	-2611.14	1670949.55	14269646.32	39°17'44.792"N	80°53'31.478"W	8605.05	342.335	0.76	0.03	0.76	
15504.00	90.370	343.820	6455.34	8699.54	8291.18	-2635.29	1670925.40	14269738.15	39°17'45.700"N	80°53'31.783"W	8699.91	342.368	3.06	-0.13	-3.05	
15598.00	90.460	342.900	6454.66	8793.51	8381.24	-2662.21	1670898.50	14269828.18	39°17'46.591"N	80°53'32.124"W	8793.90	342.378	0.98	0.10	-0.98	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Doddridge Co., WV	Well	O'Donnell Unit 2H
Field	Doddridge	Wellbore	O'Donnell Unit 2H AWB
Facility	Alvadore Pad		

WELLPATH DATA (185 stations)

MD	Inclination	Azimuth	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
15693.00	1.7	6453.90	8888.47	8472.22	-2689.55	1670871.17	14269919.12	39°17'47.49"N	80°53'32.47"W	8888.88	342.388	0.79	0.00	0.79	
15787.00	0.490	347.880	6453.12	8982.23	8563.31	1670848.07	14270010.17	39°17'48.391"N	80°53'32.763"W	8982.69	342.423	4.50	0.03	4.50	
15881.00	0.550	347.730	6452.27	8975.72	8655.19	1670828.22	14270102.01	39°17'49.299"N	80°53'33.015"W	9076.28	342.479	0.17	0.06	-0.16	
15976.00	0.110	338.850	6450.89	9170.58	8746.07	1670800.95	14270192.86	39°17'50.198"N	80°53'33.360"W	9171.17	342.487	9.36	0.59	-9.35	
16010.00	0.110	338.850	6450.23	9204.53	8777.78	1670788.68	14270224.55	39°17'50.511"N	80°53'33.516"W	9205.09	342.474	0.00	0.00	0.00	Projected MD at TD: 16010

TARGETS

Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape
O'Donnell Unit 2H BHL Rev-1	6398.33	8755.40	-2777.87	1670782.88	14270202.18	39°17'50.290"N	80°53'33.590"W	point
O'Donnell Unit 2H POE Rev-1	6457.00	-56.62	111.79	1673671.39	14261393.69	39°16'23.159"N	80°52'56.979"W	point
O'Donnell Unit 2H LP Rev-1	6478.00	80.47	66.84	1673626.45	14261530.72	39°16'24.514"N	80°52'57.549"W	point

WELLPATH COMPOSITION - Ref Wellbore: O'Donnell Unit 2H AWP Proj: 16010

Start MD	End MD	Positional Uncertainty Model	Log Name/Comment
(ft)	(ft)		Wellbore
25.00	5587.00	Gyrodala standard - Drop gyro or Multi-shot	01 Gyrodala MS Gyro <8-3/4">(100°-5587)
5587.00	15976.00	BHI Autotrak Curve (Short)	02 BHI AT Curve <8-1/2">(5587)(5735-15976)
15976.00	16010.00	Blind Drilling (std)	Projection to bit

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #07
Area	Doddridge Co., WV	Well	O'Donnell Unit 2H
Field	Doddridge	Wellbore	O'Donnell Unit 2H AWB
Facility	Alvadore Pad		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
100.00	0.840	338.210	100.00	Gyrodata MS Gyro <8-3/4">(100'-5587')	
5735.00	10.370	148.560	5696.62	BHI AT Curve <8-1/2">(5587')(5735'-15976')	
6337.00	36.090	344.213	6273.99	Middlesex: 6337' MD	
6511.00	58.377	342.652	6391.09	Burkett: 6511' MD	
6571.00	65.063	340.762	6419.63	Tully: 6571' MD	
6631.00	71.456	340.247	6441.74	Hamilton: 6631' MD	
6654.00	74.346	340.080	6448.52	Marcellus: 6654' MD	
16010.00	91.110	338.850	6450.23	Projected MD at TD: 16010'	

COMMENTS
<p>Wellpath general comments API #: 47-017-06773-0000 BHI Job #: 8061077 Rig: Patterson 342 Duration: 07.16.2016-07.21.2016 Gyrodata MS Gyro <8-3/4">(100'-5587') BHI AT Curve <8-1/2">(5587')(5735'-15976') Middlesex: 6337' MD Burkett: 6511' MD Tully: 6571' MD Hamilton: 6631' MD Marcellus: 6654' MD Projected MD at TD: 16010'</p>

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