



ANTERO RESOURCES CORPORATION

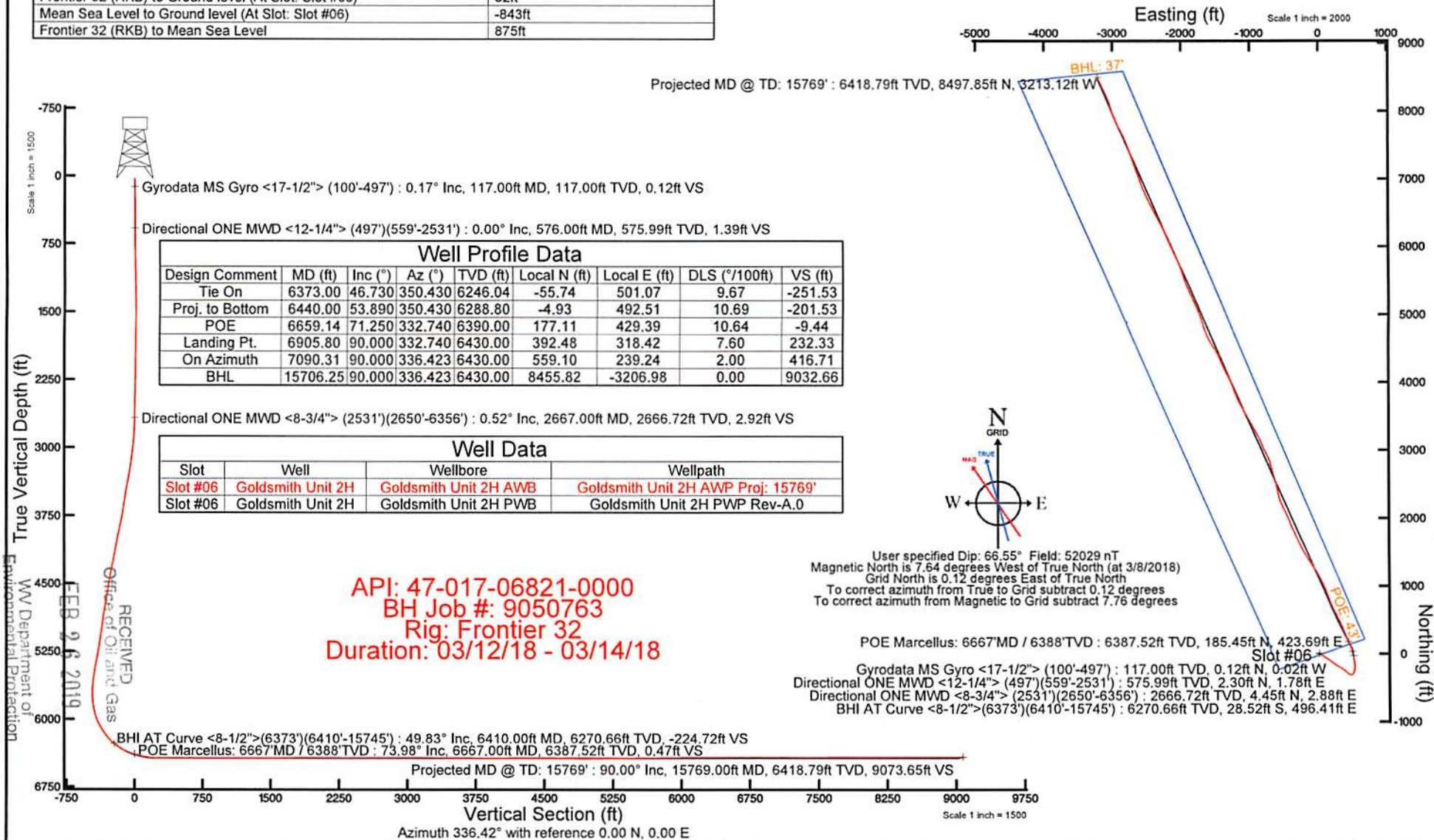
Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Middle Pad

Slot: Slot #06
 Well: Goldsmith Unit 2H
 Wellbore: Goldsmith Unit 2H PWB



Location Information						
Facility Name		Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Middle Pad		1695090.990	14279417.689	39°19'21.010"N	80°48'24.020"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #06	-18.11	47.19	1695138.163	14279399.585	39°19'20.830"N	80°48'23.420"W
Comment: Goldsmith Unit 2H						
Frontier 32 (RKB) to Ground level (At Slot: Slot #06)				32ft		
Mean Sea Level to Ground level (At Slot: Slot #06)				-843ft		
Frontier 32 (RKB) to Mean Sea Level				875ft		

Plot reference wellpath is Goldsmith Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Frontier 32 (RKB)	North Reference: Grid north
Measured depths are referenced to Frontier 32 (RKB)	Scale: True distance
Frontier 32 (RKB) to Mean Sea Level: 875 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot #06): -843 feet	Created by: mccecrib on 2018-05-15
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn



Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	6373.00	46.730	350.430	6246.04	-55.74	501.07	9.67	-251.53
Proj. to Bottom	6440.00	53.890	350.430	6288.80	-4.93	492.51	10.69	-201.53
POE	6659.14	71.250	332.740	6390.00	177.11	429.39	10.64	-9.44
Landing Pt.	6905.80	90.000	332.740	6430.00	392.48	318.42	7.60	232.33
On Azimuth	7090.31	90.000	336.423	6430.00	559.10	239.24	2.00	416.71
BHL	15706.25	90.000	336.423	6430.00	8455.82	-3206.98	0.00	9032.66

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #06	Goldsmith Unit 2H	Goldsmith Unit 2H AWB	Goldsmith Unit 2H AWP Proj: 15769'
Slot #06	Goldsmith Unit 2H	Goldsmith Unit 2H PWB	Goldsmith Unit 2H PWP Rev-A.0

Gyrodata MS Gyro <17-1/2"> (100'-497') : 0.17° Inc, 117.00ft MD, 117.00ft TVD, 0.12ft VS

Directional ONE MWD <12-1/4"> (497')(559'-2531') : 0.00° Inc, 576.00ft MD, 575.99ft TVD, 1.39ft VS

Directional ONE MWD <8-3/4"> (2531')(2650'-6356') : 0.52° Inc, 2667.00ft MD, 2666.72ft TVD, 2.92ft VS



Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Goldsmith Unit 2H
Field	Doddridge	Wellbore	Goldsmith Unit 2H AWB
Facility	Middle Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Mccrerib
Scale	0.999603	Report Generated	5/15/2018 at 8:44:03 AM
Convergence at slot	0.12° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Goldsmith_Unit_2H_AWP_Proj_15769_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-18.11	47.19	1695138.16	14279399.59	39°19'20.830"N	80°48'23.420"W
Facility Reference Pt			1695090.99	14279417.69	39°19'21.010"N	80°48'24.020"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Frontier 32 (RKB) to Facility Vertical Datum	875.00ft
Horizontal Reference Pt	Slot	Frontier 32 (RKB) to Mean Sea Level	875.00ft
Vertical Reference Pt	Frontier 32 (RKB)	Frontier 32 (RKB) to Ground Level at Slot (Slot #06)	32.00ft
MD Reference Pt	Frontier 32 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	336.42°

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Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #06
Area	Doddridge Co., WV		Well	Goldsmith Unit 2H
Field	Doddridge		Wellbore	Goldsmith Unit 2H AWB
Facility	Middle Pad			

WELLPATH DATA (194 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	349.460	0.00	0.00	0.00	0.00	1695138.16	14279399.59	39°19'20.830"N	80°48'23.420"W	0.00	0.000	0.00	0.00	0.00	
32.00	0.00	349.460	32.00	0.00	0.00	0.00	1695138.16	14279399.59	39°19'20.830"N	80°48'23.420"W	0.00	0.000	0.00	0.00	0.00	
117.00	0.17	349.460	117.00	0.12	0.12	-0.02	1695138.14	14279399.71	39°19'20.831"N	80°48'23.420"W	0.13	349.460	0.20	0.20	-12.40	Gyrodata MS Gyro <17-1/2"> (100'-497')
217.00	0.53	18.550	217.00	0.61	0.71	0.10	1695138.26	14279400.29	39°19'20.837"N	80°48'23.419"W	0.71	7.793	0.39	0.36	29.09	
317.00	0.64	41.270	316.99	1.19	1.57	0.61	1695138.78	14279401.15	39°19'20.845"N	80°48'23.412"W	1.68	21.354	0.25	0.11	22.72	
417.00	0.35	59.550	416.99	1.46	2.14	1.24	1695139.41	14279401.73	39°19'20.851"N	80°48'23.404"W	2.48	30.160	0.33	-0.29	18.28	
514.00	0.20	89.080	513.99	1.43	2.29	1.67	1695139.83	14279401.88	39°19'20.853"N	80°48'23.399"W	2.84	36.035	0.21	-0.15	30.44	
576.00	0.00	0.000	575.99	1.39	2.30	1.78	1695139.94	14279401.88	39°19'20.853"N	80°48'23.397"W	2.90	37.742	0.32	-0.32	-143.68	Directional ONE MWD <12-1/4"> (497')(559'-2531')
666.00	0.34	300.990	665.99	1.61	2.43	1.55	1695139.71	14279402.02	39°19'20.854"N	80°48'23.400"W	2.88	32.466	0.38	0.38	-65.57	
756.00	0.66	303.610	755.98	2.26	2.86	0.89	1695139.05	14279402.44	39°19'20.858"N	80°48'23.409"W	2.99	17.253	0.36	0.36	2.91	
847.00	0.88	295.570	846.98	3.23	3.45	-0.18	1695137.98	14279403.03	39°19'20.864"N	80°48'23.422"W	3.45	357.023	0.27	0.24	-8.84	
937.00	0.92	298.240	936.96	4.32	4.09	-1.44	1695136.72	14279403.67	39°19'20.870"N	80°48'23.438"W	4.34	340.610	0.06	0.04	2.97	
1025.00	1.03	298.480	1024.95	5.50	4.80	-2.76	1695135.41	14279404.38	39°19'20.878"N	80°48'23.455"W	5.54	330.134	0.13	0.12	0.27	
1113.00	1.36	298.680	1112.93	6.95	5.68	-4.37	1695133.80	14279405.26	39°19'20.886"N	80°48'23.475"W	7.16	322.434	0.38	0.38	0.23	
1201.00	1.52	304.370	1200.90	8.77	6.84	-6.25	1695131.92	14279406.42	39°19'20.898"N	80°48'23.499"W	9.26	317.588	0.24	0.18	6.47	
1289.00	1.38	299.510	1288.88	10.60	8.02	-8.13	1695130.03	14279407.60	39°19'20.909"N	80°48'23.523"W	11.42	314.598	0.21	-0.16	-5.52	
1377.00	0.88	306.070	1376.86	12.03	8.94	-9.60	1695128.56	14279408.52	39°19'20.919"N	80°48'23.542"W	13.12	312.956	0.59	-0.57	7.45	
1465.00	0.71	313.070	1464.85	13.12	9.71	-10.55	1695127.62	14279409.29	39°19'20.926"N	80°48'23.554"W	14.34	312.636	0.22	-0.19	7.95	
1553.00	0.36	56.750	1552.85	13.67	10.23	-10.71	1695127.45	14279409.82	39°19'20.931"N	80°48'23.556"W	14.82	313.689	0.99	-0.40	117.82	
1642.00	1.12	78.240	1641.84	13.53	10.56	-9.63	1695128.54	14279410.15	39°19'20.935"N	80°48'23.542"W	14.29	317.656	0.89	0.85	24.15	
1730.00	1.01	90.130	1729.82	13.05	10.74	-8.01	1695130.16	14279410.32	39°19'20.936"N	80°48'23.522"W	13.40	323.278	0.28	-0.12	13.51	
1818.00	0.89	94.910	1817.81	12.41	10.68	-6.55	1695131.61	14279410.26	39°19'20.936"N	80°48'23.503"W	12.53	328.459	0.16	-0.14	5.43	
1907.00	0.77	104.290	1906.80	11.71	10.47	-5.29	1695132.88	14279410.05	39°19'20.934"N	80°48'23.487"W	11.73	333.216	0.20	-0.13	10.54	
1995.00	0.80	108.640	1994.80	10.94	10.13	-4.13	1695134.03	14279409.71	39°19'20.930"N	80°48'23.472"W	10.94	337.814	0.08	0.03	4.94	
2083.00	0.66	107.220	2082.79	10.19	9.78	-3.06	1695135.10	14279409.36	39°19'20.927"N	80°48'23.459"W	10.25	342.606	0.16	-0.16	-1.61	
2171.00	0.50	97.450	2170.78	9.66	9.58	-2.20	1695135.96	14279409.16	39°19'20.925"N	80°48'23.448"W	9.83	347.072	0.21	-0.18	-11.10	
2259.00	0.72	142.810	2258.78	8.93	9.09	-1.48	1695136.68	14279408.67	39°19'20.920"N	80°48'23.439"W	9.21	350.726	0.58	0.25	51.55	
2347.00	1.16	153.360	2346.77	7.50	7.86	-0.75	1695137.41	14279407.44	39°19'20.908"N	80°48'23.429"W	7.89	354.539	0.54	0.50	11.99	
2436.00	1.13	142.950	2435.75	5.75	6.35	0.18	1695138.34	14279405.93	39°19'20.893"N	80°48'23.418"W	6.35	1.638	0.24	-0.03	-11.70	
2524.00	0.99	133.950	2523.73	4.20	5.13	1.25	1695139.41	14279404.71	39°19'20.881"N	80°48'23.404"W	5.28	13.712	0.25	-0.16	-10.23	

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769

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Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Middle Pad
Slot	Goldsmith Unit 2H AWP
Slot #06	Goldsmith Unit 2H

WELLPATH DATA (194 Stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
2548.00	0.900	122.490	2547.73	3.85	4.88	1.56	1695139.72	14279404.47	39°19'20.87"N	80°48'23.40"W	5.13	17.711	0.87	-0.37	-47.75	
2667.00	0.520	83.180	2666.72	2.92	4.45	2.88	1695141.05	14279404.03	39°19'20.874"N	80°48'23.383"W	5.30	32.969	0.50	-0.32	-33.03	Directional ONE MWD <8-3/4"> (2531)(2650-6356)
2755.00	3.090	152.950	2754.68	0.44	2.38	4.36	1695142.52	14279401.97	39°19'20.853"N	80°48'23.364"W	4.97	61.364	3.35	2.92	79.28	
2844.00	3.610	132.530	2843.53	-4.52	-1.65	7.52	1695145.68	14279397.94	39°19'20.814"N	80°48'23.324"W	7.69	102.375	1.45	0.58	-22.94	
2932.00	6.590	115.260	2931.17	-10.85	-5.68	14.13	1695152.28	14279393.91	39°19'20.774"N	80°48'23.240"W	15.22	111.897	3.77	3.39	-19.63	
3020.00	9.310	117.050	3018.32	-20.16	-11.07	25.03	1695163.19	14279388.52	39°19'20.720"N	80°48'23.102"W	27.37	113.856	3.10	3.09	2.03	
3109.00	9.000	116.340	3106.19	-31.05	-17.43	37.68	1695175.83	14279382.16	39°19'20.657"N	80°48'22.941"W	41.52	114.826	0.37	-0.35	-0.80	
3197.00	10.170	118.920	3192.96	-42.48	-24.24	50.65	1695188.80	14279375.35	39°19'20.589"N	80°48'22.776"W	56.16	115.577	1.42	1.33	2.93	
3285.00	12.290	120.440	3279.27	-56.23	-32.75	65.53	1695203.67	14279366.85	39°19'20.505"N	80°48'22.587"W	73.26	116.553	2.43	2.41	1.73	
3374.00	12.250	126.840	3366.24	-72.10	-43.21	81.25	1695219.38	14279356.39	39°19'20.401"N	80°48'22.387"W	92.03	118.003	1.53	-0.04	7.19	
3462.00	11.710	124.830	3452.32	-87.83	-53.91	96.06	1695234.18	14279345.70	39°19'20.295"N	80°48'22.199"W	110.15	119.301	0.78	-0.61	-2.28	
3550.00	11.020	120.250	3538.60	-102.23	-63.24	110.65	1695248.77	14279336.37	39°19'20.203"N	80°48'22.014"W	127.45	119.750	1.29	-0.78	-5.20	
3638.00	10.730	120.200	3625.02	-115.63	-71.60	125.00	1695263.11	14279328.01	39°19'20.120"N	80°48'21.831"W	144.05	119.805	0.33	-0.33	-0.06	
3726.00	11.940	123.710	3711.30	-129.90	-80.78	139.65	1695277.76	14279318.84	39°19'20.029"N	80°48'21.645"W	161.33	120.045	1.58	1.37	3.99	
3813.00	13.090	130.090	3803.88	-164.48	-105.04	170.53	1695308.63	14279294.59	39°19'19.915"N	80°48'21.448"W	180.53	120.745	1.91	1.36	6.20	
3903.00	12.550	125.750	3868.71	-181.44	-116.90	185.74	1695323.83	14279282.73	39°19'19.671"N	80°48'21.060"W	219.47	122.186	1.27	-0.07	-4.99	
3990.00	12.560	125.750	3868.71	-181.44	-116.90	185.74	1695323.83	14279282.73	39°19'19.788"N	80°48'21.253"W	200.28	121.631	0.23	-0.07	0.98	
4078.00	12.490	123.840	4054.62	-197.69	-127.79	201.40	1695339.49	14279271.85	39°19'19.563"N	80°48'20.861"W	238.52	122.395	0.48	-0.07	-2.17	
4167.00	13.040	129.080	4141.42	-214.72	-139.48	217.19	1695355.27	14279260.16	39°19'19.447"N	80°48'20.660"W	258.12	122.708	1.44	0.62	5.89	
4255.00	13.040	126.660	4227.15	-232.15	-151.66	232.86	1695370.93	14279247.98	39°19'19.326"N	80°48'20.461"W	277.90	123.076	0.62	0.00	-2.75	
4343.00	13.410	123.650	4312.82	-249.35	-163.25	249.32	1695387.38	14279236.40	39°19'19.211"N	80°48'20.252"W	298.01	123.215	0.89	0.42	-3.42	
4431.00	13.790	120.470	4398.35	-266.42	-174.22	266.85	1695404.91	14279225.44	39°19'19.102"N	80°48'20.029"W	318.69	123.139	0.95	0.43	-3.61	
4520.00	11.450	119.700	4485.20	-282.09	-183.98	283.67	1695421.72	14279215.68	39°19'19.006"N	80°48'19.815"W	338.11	122.965	2.64	-0.87	-0.23	
4608.00	11.150	119.500	4571.49	-295.90	-192.49	298.67	1695436.71	14279207.17	39°19'18.921"N	80°48'19.625"W	355.32	122.802	0.34	-0.34	-0.23	
4696.00	11.510	118.080	4657.78	-309.69	-200.82	313.82	1695451.66	14279198.85	39°19'18.839"N	80°48'19.432"W	372.57	122.616	0.52	0.41	-1.61	
4784.00	11.560	122.530	4744.00	-323.79	-209.69	329.00	1695467.03	14279189.98	39°19'18.751"N	80°48'19.239"W	390.14	122.512	1.01	0.06	5.06	
4873.00	10.120	126.200	4831.41	-337.95	-219.10	342.83	1695480.85	14279180.57	39°19'18.657"N	80°48'19.064"W	406.86	122.583	1.79	-1.62	4.12	
4961.00	8.390	131.300	4918.27	-350.45	-227.91	353.89	1695491.91	14279171.77	39°19'18.570"N	80°48'18.923"W	420.93	122.782	2.17	-1.97	5.80	
5049.00	9.100	129.700	5005.24	-362.47	-236.59	364.07	1695502.09	14279163.09	39°19'18.484"N	80°48'18.794"W	434.19	123.018	0.85	0.81	-1.82	
5138.00	9.230	129.890	5093.11	-375.15	-245.66	374.96	1695512.97	14279154.02	39°19'18.394"N	80°48'18.656"W	448.27	123.232	0.15	0.15	0.21	

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #06
Area	Doddridge Co., WV		Well	Goldsmith Unit 2H
Field	Doddridge		Wellbore	Goldsmith Unit 2H AWB
Facility	Middle Pad			

WELLPATH DATA (194 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
5226.00	9.240	130.170	5179.96	-387.80	-254.75	385.77	1695523.78	14279144.94	39°19'18.304"N	80°48'18.518"W	462.30	123.439	0.05	0.01	0.32	
5314.00	11.870	134.730	5266.47	-402.55	-265.68	397.60	1695535.61	14279134.01	39°19'18.196"N	80°48'18.368"W	478.20	123.751	3.13	2.99	5.18	
5402.00	12.830	127.190	5352.44	-419.48	-277.95	411.82	1695549.82	14279121.74	39°19'18.074"N	80°48'18.187"W	496.84	124.017	2.13	1.09	-8.57	
5491.00	12.240	125.220	5439.32	-436.18	-289.37	427.40	1695565.39	14279110.33	39°19'17.961"N	80°48'17.990"W	516.14	124.100	0.82	-0.66	-2.21	
5579.00	9.530	122.620	5525.73	-450.21	-298.68	441.16	1695579.14	14279101.03	39°19'17.869"N	80°48'17.815"W	532.75	124.099	3.13	-3.08	-2.95	
5623.00	10.010	116.290	5569.09	-456.16	-302.33	447.65	1695585.64	14279097.37	39°19'17.832"N	80°48'17.732"W	540.18	124.034	2.67	1.09	-14.39	
5667.00	10.870	98.670	5612.37	-461.30	-304.65	455.19	1695593.17	14279095.05	39°19'17.809"N	80°48'17.636"W	547.73	123.794	7.48	1.95	-40.05	
5712.00	11.700	85.020	5656.51	-465.02	-304.90	463.93	1695601.91	14279094.81	39°19'17.807"N	80°48'17.525"W	555.15	123.313	6.20	1.84	-30.33	
5756.00	11.190	70.650	5699.64	-466.76	-303.09	472.40	1695610.38	14279096.61	39°19'17.824"N	80°48'17.417"W	561.28	122.684	6.57	-1.16	-32.66	
5800.00	9.970	55.170	5742.90	-466.33	-299.50	479.56	1695617.53	14279100.20	39°19'17.860"N	80°48'17.326"W	565.40	121.986	7.00	-2.77	-35.18	
5844.00	12.210	43.650	5786.08	-463.79	-293.96	485.90	1695623.87	14279105.74	39°19'17.914"N	80°48'17.245"W	567.90	121.173	7.14	5.09	-26.18	
5888.00	15.770	38.310	5828.77	-459.17	-285.90	492.82	1695630.79	14279113.80	39°19'17.994"N	80°48'17.157"W	569.74	120.119	8.60	8.09	-12.14	
5932.00	17.170	28.870	5870.97	-452.39	-275.52	499.66	1695637.63	14279124.18	39°19'18.096"N	80°48'17.070"W	570.59	118.873	6.85	3.18	-21.45	
5976.00	19.250	19.760	5912.78	-443.16	-263.00	505.25	1695643.21	14279136.69	39°19'18.220"N	80°48'16.998"W	569.60	117.498	8.00	4.73	-20.70	
6020.00	22.130	14.440	5953.94	-431.35	-248.14	509.77	1695647.73	14279151.54	39°19'18.367"N	80°48'16.940"W	566.96	115.956	7.81	6.55	-12.09	
6064.00	25.260	9.230	5994.23	-416.92	-230.85	513.35	1695651.30	14279168.83	39°19'18.537"N	80°48'16.894"W	562.86	114.213	8.55	7.11	-11.84	
6109.00	28.590	4.910	6034.35	-399.38	-210.63	515.81	1695653.77	14279189.04	39°19'18.737"N	80°48'16.862"W	557.16	112.213	8.58	7.40	-9.60	
6153.00	31.230	359.920	6072.49	-379.66	-188.73	516.69	1695654.65	14279210.93	39°19'18.954"N	80°48'16.851"W	550.08	110.065	8.24	6.00	-11.34	
6197.00	32.900	356.160	6109.78	-357.95	-165.40	515.88	1695653.84	14279234.25	39°19'19.184"N	80°48'16.860"W	541.74	107.776	5.91	3.80	-8.55	
6241.00	35.330	353.260	6146.21	-334.52	-140.83	513.58	1695651.54	14279258.81	39°19'19.427"N	80°48'16.889"W	532.54	105.335	6.64	5.52	-6.59	
6285.00	38.700	351.960	6181.34	-309.09	-114.57	510.17	1695648.13	14279285.06	39°19'19.687"N	80°48'16.932"W	522.87	102.657	7.86	7.66	-2.95	
6329.00	42.520	351.290	6214.73	-281.45	-86.24	505.99	1695643.95	14279313.38	39°19'19.967"N	80°48'16.984"W	513.29	99.673	8.74	8.68	-1.52	
6373.00	46.730	350.430	6246.04	-251.53	-55.74	501.07	1695639.04	14279343.87	39°19'20.268"N	80°48'17.046"W	504.16	96.347	9.67	9.57	-1.95	
6410.00	49.830	350.140	6270.66	-224.72	-28.52	496.41	1695634.38	14279371.08	39°19'20.538"N	80°48'17.104"W	497.23	93.288	8.40	8.38	-0.78	BHI AT Curve <8-1/2">(6373')(6410'-15745')
6457.00	54.820	346.720	6299.39	-188.34	7.90	488.92	1695626.89	14279407.48	39°19'20.898"N	80°48'17.199"W	488.98	89.075	12.08	10.62	-7.28	
6490.00†	58.040	343.464	6317.63	-161.17	34.45	481.83	1695619.80	14279434.03	39°19'21.160"N	80°48'17.288"W	483.06	85.910	12.76	9.76	-9.87	Burket: 6490'MD / 6318'TVD
6505.00	59.530	342.060	6325.41	-148.42	46.70	478.03	1695616.00	14279446.27	39°19'21.281"N	80°48'17.336"W	480.31	84.420	12.76	9.93	-9.36	
6551.00†	64.042	340.434	6347.15	-108.04	85.07	464.99	1695602.97	14279484.62	39°19'21.661"N	80°48'17.501"W	472.71	79.632	10.29	9.81	-3.54	Tully: 6551'MD / 6347'TVD
6552.00	64.140	340.400	6347.59	-107.14	85.92	464.69	1695602.67	14279485.47	39°19'21.669"N	80°48'17.505"W	472.57	79.524	10.29	9.83	-3.36	
6600.00	68.840	337.570	6366.73	-63.19	126.98	448.89	1695586.88	14279526.52	39°19'22.076"N	80°48'17.705"W	466.51	74.205	11.18	9.79	-5.90	

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #06
Area	Doddridge Co., WV		Well
Field	Doddridge		Wellbore
Facility	Middle Pad		Goldsmith Unit 2H AWP

WELLPATH DATA (194 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
6636.00†	72.378	336.483	6378.68	-29.24	158.24	435.64	1695573.63	14279557.76	39°19'22.385"N	80°48'17.872"W	463.49	70.037	10.23	9.83	-3.02	Hamilton: 6636MD / 6379'TVD
6647.00	73.460	336.160	6381.92	-18.72	167.87	431.42	1695569.41	14279567.39	39°19'22.480"N	80°48'17.926"W	462.92	68.738	10.23	9.84	-2.94	
6667.00†	73.981	336.377	6387.52	0.47	185.45	423.69	1695561.68	14279584.96	39°19'22.654"N	80°48'18.024"W	462.50	66.361	2.80	2.60	1.09	POE Marcellus: 6667MD / 6388'TVD
6695.00	74.710	336.680	6395.08	27.43	210.18	412.95	1695550.95	14279609.68	39°19'22.899"N	80°48'18.160"W	463.36	63.026	2.80	2.60	1.08	
6742.00	76.960	337.910	6406.58	73.00	252.21	395.36	1695533.37	14279651.70	39°19'23.314"N	80°48'18.382"W	468.96	57.465	5.42	4.79	2.62	
6789.00	79.600	339.170	6416.12	118.98	295.04	378.53	1695516.54	14279694.51	39°19'23.738"N	80°48'18.595"W	479.93	52.066	6.20	5.62	2.68	
6836.00	82.750	337.710	6423.33	165.39	338.22	361.47	1695499.48	14279737.68	39°19'24.165"N	80°48'18.811"W	495.03	46.902	7.37	6.70	-3.11	
6884.00	85.590	338.270	6428.21	213.12	382.49	343.57	1695481.60	14279781.92	39°19'24.603"N	80°48'19.038"W	514.14	41.932	6.03	5.92	1.17	
6931.00	89.480	337.400	6430.23	260.05	425.97	325.86	1695463.89	14279825.38	39°19'25.033"N	80°48'19.262"W	536.32	37.415	8.48	8.28	-1.85	
6979.00	90.120	334.500	6430.40	308.04	469.80	306.30	1695444.34	14279869.20	39°19'25.467"N	80°48'19.510"W	560.83	33.104	6.19	1.33	-6.04	
7074.00	90.030	333.300	6430.27	402.95	555.11	264.51	1695402.56	14279954.47	39°19'26.311"N	80°48'20.039"W	614.91	25.478	1.27	-0.09	-1.26	
7169.00	90.060	331.990	6430.20	497.74	639.48	220.86	1695358.93	14280038.81	39°19'27.146"N	80°48'20.592"W	676.55	19.053	1.38	0.03	-1.38	
7264.00	89.970	337.650	6430.18	592.66	725.42	180.45	1695318.54	14280124.72	39°19'27.996"N	80°48'21.104"W	747.53	13.969	5.96	-0.09	5.96	
7359.00	90.120	339.780	6430.10	687.58	813.94	145.97	1695284.07	14280213.20	39°19'28.872"N	80°48'21.540"W	826.92	10.167	2.25	0.16	2.24	
7454.00	90.150	339.520	6429.88	782.43	903.01	112.93	1695251.05	14280302.23	39°19'29.753"N	80°48'21.958"W	910.04	7.129	0.28	0.03	-0.27	
7549.00	90.120	336.920	6429.65	877.38	991.22	77.69	1695215.82	14280390.41	39°19'30.625"N	80°48'22.404"W	994.26	4.481	2.74	-0.03	-2.74	
7644.00	90.060	332.810	6429.50	972.32	1077.20	37.34	1695175.49	14280476.36	39°19'31.476"N	80°48'22.915"W	1077.85	1.985	4.33	-0.06	-4.33	
7739.00	90.120	331.330	6429.35	1067.04	1161.13	-7.15	1695131.01	14280560.26	39°19'32.306"N	80°48'23.479"W	1161.16	359.647	1.56	0.06	-1.56	
7834.00	90.000	327.910	6429.25	1161.36	1243.08	-55.19	1695083.00	14280642.17	39°19'33.117"N	80°48'24.088"W	1244.30	357.458	3.60	-0.13	-3.60	
7929.00	90.030	327.800	6429.23	1255.30	1323.51	-105.74	1695032.47	14280722.57	39°19'33.913"N	80°48'24.729"W	1327.73	355.432	0.12	0.03	-0.12	
8024.00	90.710	328.730	6428.62	1349.34	1404.31	-155.70	1694982.52	14280803.33	39°19'34.713"N	80°48'25.363"W	1412.91	353.673	1.21	0.72	0.98	
8119.00	89.720	329.080	6428.26	1443.52	1485.66	-204.77	1694933.48	14280884.65	39°19'35.518"N	80°48'25.985"W	1499.70	352.152	1.11	-1.04	0.37	
8214.00	90.030	334.370	6428.47	1538.17	1569.29	-249.75	1694888.51	14280968.25	39°19'36.346"N	80°48'26.555"W	1589.04	350.957	5.58	0.33	5.57	
8309.00	90.890	336.090	6427.70	1633.14	1655.54	-289.55	1694848.73	14281054.47	39°19'37.199"N	80°48'27.060"W	1680.67	350.079	2.02	0.91	1.81	
8404.00	91.110	336.150	6426.05	1728.12	1742.40	-328.00	1694810.29	14281141.29	39°19'38.058"N	80°48'27.546"W	1773.00	349.339	0.24	0.23	0.06	
8500.00	91.260	334.150	6424.06	1824.07	1829.49	-368.34	1694769.97	14281228.34	39°19'38.920"N	80°48'28.057"W	1866.20	348.617	2.09	0.16	-2.08	
8594.00	89.820	339.280	6423.17	1918.03	1915.80	-405.48	1694732.85	14281314.62	39°19'39.774"N	80°48'28.528"W	1958.24	348.050	5.67	-1.53	5.46	
8689.00	89.970	338.380	6423.35	2012.95	2004.38	-439.79	1694698.55	14281403.17	39°19'40.650"N	80°48'28.962"W	2052.06	347.625	0.96	0.16	-0.95	
8784.00	89.850	333.970	6423.50	2107.92	2091.27	-478.15	1694660.20	14281490.02	39°19'41.509"N	80°48'29.448"W	2145.23	347.121	4.64	-0.13	-4.64	
8879.00	89.110	333.590	6424.36	2202.82	2176.49	-520.12	1694618.25	14281575.20	39°19'42.353"N	80°48'29.980"W	2237.77	346.560	0.88	-0.78	-0.40	

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #06
Area	Doddridge Co., WV		Well
Field	Doddridge		Wellbore
Facility	Middle Pad		Goldsmith Unit 2H AWP

WELLPATH DATA (194 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
8974.00	89.570	340.350	6425.46	2297.75	2263.86	-557.26	1694581.12	14281662.54	39°19'43.217"N	80°48'30.450"W	2331.44	346.171	7.13	0.48	7.12	
9069.00	90.740	348.720	6425.20	2391.72	2355.34	-582.57	1694555.82	14281753.98	39°19'44.122"N	80°48'30.769"W	2426.31	346.107	8.90	1.23	8.81	
9165.00	90.280	347.530	6424.34	2485.71	2449.28	-602.33	1694536.08	14281847.88	39°19'45.050"N	80°48'31.018"W	2522.25	346.184	1.33	-0.48	-1.24	
9259.00	90.180	343.790	6423.97	2578.48	2540.33	-625.60	1694512.81	14281938.90	39°19'45.951"N	80°48'31.312"W	2616.23	346.165	3.98	-0.11	-3.98	
9354.00	89.970	343.450	6423.84	2672.73	2631.47	-652.39	1694486.03	14282030.01	39°19'46.852"N	80°48'31.651"W	2711.14	346.076	0.42	-0.22	-0.36	
9449.00	89.880	345.570	6423.97	2766.78	2723.02	-677.76	1694460.67	14282121.52	39°19'47.758"N	80°48'31.971"W	2806.10	346.023	2.23	-0.09	2.23	
9544.00	90.710	344.900	6423.48	2860.65	2814.88	-701.97	1694436.47	14282213.34	39°19'48.666"N	80°48'32.277"W	2901.09	345.997	1.12	0.87	-0.71	
9639.00	89.850	334.110	6423.01	2955.37	2903.73	-735.19	1694403.27	14282302.16	39°19'49.545"N	80°48'32.697"W	2995.36	345.792	11.39	-0.91	-11.36	
9734.00	89.200	333.120	6423.80	3050.25	2988.83	-777.40	1694361.07	14282387.22	39°19'50.387"N	80°48'33.232"W	3088.28	345.420	1.25	-0.68	-1.04	
9830.00	89.750	338.550	6424.68	3146.21	3076.38	-816.68	1694321.80	14282474.74	39°19'51.253"N	80°48'33.729"W	3182.94	345.133	5.68	0.57	5.66	
9925.00	89.820	336.480	6425.04	3241.19	3164.15	-853.01	1694285.49	14282562.48	39°19'52.121"N	80°48'34.189"W	3277.12	344.912	2.18	0.07	-2.18	
10020.00	89.720	331.730	6425.42	3336.08	3249.59	-894.49	1694244.03	14282647.88	39°19'52.967"N	80°48'34.715"W	3370.45	344.610	5.00	-0.11	-5.00	
10115.00	89.600	329.930	6425.98	3430.62	3332.54	-940.79	1694197.75	14282730.79	39°19'53.787"N	80°48'35.302"W	3462.79	344.235	1.90	-0.13	-1.89	
10210.00	89.660	329.470	6426.59	3524.97	3414.56	-988.72	1694149.84	14282812.78	39°19'54.599"N	80°48'35.910"W	3554.82	343.851	0.49	0.06	-0.48	
10305.00	89.660	332.090	6427.16	3619.50	3497.46	-1035.09	1694103.48	14282895.65	39°19'55.419"N	80°48'36.497"W	3647.42	343.514	2.76	0.00	2.76	
10400.00	89.720	332.150	6427.67	3714.23	3581.43	-1079.51	1694059.08	14282979.59	39°19'56.250"N	80°48'37.061"W	3740.59	343.226	0.09	0.06	0.06	
10495.00	89.690	332.450	6428.16	3808.98	3665.54	-1123.67	1694014.94	14283063.67	39°19'57.082"N	80°48'37.620"W	3833.91	342.957	0.32	-0.03	0.32	
10591.00	89.970	334.580	6428.45	3904.85	3751.46	-1166.48	1693972.14	14283149.55	39°19'57.933"N	80°48'38.163"W	3928.63	342.727	2.24	0.29	2.22	
10686.00	89.320	339.460	6429.04	3999.82	3838.90	-1203.56	1693935.08	14283236.95	39°19'58.797"N	80°48'38.632"W	4023.14	342.593	5.18	-0.68	5.14	
10781.00	89.420	339.270	6430.08	4094.69	3927.80	-1237.04	1693901.62	14283325.82	39°19'59.677"N	80°48'39.056"W	4117.99	342.518	0.23	0.11	-0.20	
10876.00	89.850	337.040	6430.69	4189.63	4015.97	-1272.38	1693866.29	14283413.95	39°20'00.549"N	80°48'39.503"W	4212.71	342.420	2.39	0.45	-2.35	
10971.00	90.030	331.700	6430.78	4284.54	4101.59	-1313.46	1693825.22	14283499.54	39°20'01.396"N	80°48'40.024"W	4306.76	342.243	5.62	0.19	-5.62	
11066.00	89.600	333.220	6431.09	4379.31	4185.82	-1357.39	1693781.32	14283583.74	39°20'02.229"N	80°48'40.581"W	4400.41	342.033	1.66	-0.45	1.60	
11161.00	90.430	336.800	6431.07	4474.26	4271.91	-1397.51	1693741.21	14283669.79	39°20'03.081"N	80°48'41.089"W	4494.69	341.885	3.87	0.87	3.77	
11256.00	90.340	337.760	6430.43	4569.25	4359.54	-1434.20	1693704.53	14283757.38	39°20'03.948"N	80°48'41.554"W	4589.39	341.790	1.01	-0.09	1.01	
11351.00	90.060	331.330	6430.10	4664.15	4445.27	-1475.01	1693663.74	14283843.08	39°20'04.796"N	80°48'42.071"W	4683.60	341.643	6.77	-0.29	-6.77	
11445.00	89.510	326.450	6430.45	4757.31	4525.72	-1523.57	1693615.20	14283923.51	39°20'05.592"N	80°48'42.687"W	4775.29	341.394	5.22	-0.59	-5.19	
11540.00	88.030	329.790	6432.49	4851.28	4606.36	-1573.72	1693565.07	14284004.11	39°20'06.390"N	80°48'43.323"W	4867.77	341.138	3.84	-1.56	3.52	
11634.00	90.430	337.530	6433.75	4945.08	4690.53	-1615.39	1693523.42	14284088.24	39°20'07.223"N	80°48'43.851"W	4960.90	340.997	8.62	2.55	8.23	
11728.00	90.860	339.340	6432.70	5039.01	4777.94	-1649.93	1693488.89	14284175.62	39°20'08.088"N	80°48'44.288"W	5054.80	340.949	1.98	0.46	1.93	

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Actual Wellpath Report

Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #06
Area	Doddridge Co., WV		Well	Goldsmith Unit 2H
Field	Doddridge		Wellbore	Goldsmith Unit 2H AWB
Facility	Middle Pad			

WELLPATH DATA (194 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
11821.00	90.800	343.360	6431.35	5131.64	4866.03	-1679.66	1693459.17	14284263.67	39°20'08.959"N	80°48'44.664"W	5147.76	340.956	4.32	-0.06	4.32	
11915.00	90.090	340.250	6430.62	5225.21	4955.31	-1709.01	1693429.83	14284352.92	39°20'09.842"N	80°48'45.035"W	5241.74	340.971	3.39	-0.76	-3.31	
12008.00	90.980	336.650	6429.75	5318.13	5041.79	-1743.16	1693395.69	14284439.37	39°20'10.698"N	80°48'45.468"W	5334.63	340.928	3.99	0.96	-3.87	
12102.00	90.580	335.610	6428.47	5412.12	5127.74	-1781.20	1693357.67	14284525.28	39°20'11.548"N	80°48'45.950"W	5428.30	340.845	1.19	-0.43	-1.11	
12196.00	90.620	335.570	6427.49	5506.10	5213.33	-1820.04	1693318.85	14284610.84	39°20'12.395"N	80°48'46.442"W	5521.90	340.755	0.06	0.04	-0.04	
12290.00	90.550	336.120	6426.53	5600.09	5299.10	-1858.51	1693280.40	14284696.57	39°20'13.243"N	80°48'46.929"W	5615.56	340.673	0.59	-0.07	0.59	
12383.00	90.460	335.420	6425.71	5693.08	5383.90	-1896.67	1693242.25	14284781.34	39°20'14.082"N	80°48'47.412"W	5708.22	340.593	0.76	-0.10	-0.75	
12477.00	90.310	340.100	6425.07	5787.03	5470.88	-1932.24	1693206.69	14284868.29	39°20'14.942"N	80°48'47.863"W	5802.08	340.547	4.98	-0.16	4.98	
12571.00	90.400	343.010	6424.49	5880.64	5560.04	-1961.98	1693176.97	14284957.41	39°20'15.824"N	80°48'48.239"W	5896.05	340.564	3.10	0.10	3.10	
12664.00	91.290	342.200	6423.12	5973.09	5648.78	-1989.78	1693149.18	14285046.11	39°20'16.702"N	80°48'48.590"W	5988.98	340.595	1.29	0.96	-0.87	
12758.00	90.490	338.870	6421.66	6066.82	5737.38	-2021.09	1693117.88	14285134.68	39°20'17.578"N	80°48'48.987"W	6082.96	340.594	3.64	-0.85	-3.54	
12852.00	90.060	334.810	6421.21	6160.80	5823.79	-2058.05	1693080.93	14285221.05	39°20'18.433"N	80°48'49.455"W	6176.74	340.537	4.34	-0.46	-4.32	
12946.00	90.090	334.510	6421.08	6254.75	5908.74	-2098.28	1693040.72	14285305.97	39°20'19.273"N	80°48'49.965"W	6270.25	340.449	0.32	0.03	-0.32	
13039.00	90.030	335.580	6420.99	6347.72	5993.06	-2137.52	1693001.49	14285390.26	39°20'20.108"N	80°48'50.462"W	6362.84	340.370	1.15	-0.06	1.15	
13133.00	90.030	337.540	6420.94	6441.72	6079.30	-2174.91	1692964.12	14285476.46	39°20'20.961"N	80°48'50.935"W	6456.63	340.315	2.09	0.00	2.09	
13226.00	90.060	337.790	6420.87	6534.70	6165.32	-2210.25	1692928.79	14285562.45	39°20'21.812"N	80°48'51.383"W	6549.53	340.277	0.27	0.03	0.27	
13320.00	90.090	335.400	6420.74	6628.69	6251.58	-2247.59	1692891.47	14285648.67	39°20'22.665"N	80°48'51.856"W	6643.34	340.225	2.54	0.03	-2.54	
13414.00	90.430	332.860	6420.32	6722.61	6336.15	-2288.60	1692850.47	14285733.21	39°20'23.502"N	80°48'52.376"W	6736.80	340.140	2.73	0.36	-2.70	
13507.00	89.910	330.830	6420.04	6815.30	6418.14	-2332.48	1692806.61	14285815.17	39°20'24.313"N	80°48'52.932"W	6828.84	340.028	2.25	-0.56	-2.18	
13601.00	89.660	332.100	6420.39	6908.95	6500.72	-2377.38	1692761.73	14285897.72	39°20'25.130"N	80°48'53.501"W	6921.80	339.912	1.38	-0.27	1.35	
13694.00	90.310	333.680	6420.42	7001.77	6583.50	-2419.76	1692719.37	14285980.46	39°20'25.949"N	80°48'54.039"W	7014.11	339.819	1.84	0.70	1.70	
13788.00	90.060	333.650	6420.11	7095.66	6667.74	-2461.46	1692677.68	14286064.67	39°20'26.782"N	80°48'54.567"W	7107.57	339.738	0.27	-0.27	-0.03	
13882.00	89.690	335.410	6420.32	7189.61	6752.61	-2501.88	1692637.28	14286149.50	39°20'27.622"N	80°48'55.079"W	7201.19	339.670	1.91	-0.39	1.87	
13976.00	89.690	337.010	6420.83	7283.60	6838.61	-2539.80	1692599.38	14286235.47	39°20'28.473"N	80°48'55.560"W	7295.01	339.625	1.70	0.00	1.70	
14069.00	90.150	340.620	6420.96	7376.50	6925.31	-2573.40	1692565.79	14286322.14	39°20'29.330"N	80°48'55.985"W	7387.99	339.615	3.91	0.49	3.88	
14164.00	90.220	340.830	6420.65	7471.23	7014.99	-2604.76	1692534.44	14286411.78	39°20'30.217"N	80°48'56.382"W	7482.97	339.629	0.23	0.07	0.22	
14257.00	90.280	338.140	6420.24	7564.09	7102.08	-2637.35	1692501.86	14286498.84	39°20'31.079"N	80°48'56.795"W	7575.96	339.628	2.89	0.06	-2.89	
14351.00	90.280	339.950	6419.78	7657.99	7189.86	-2670.97	1692468.26	14286586.58	39°20'31.947"N	80°48'57.220"W	7669.95	339.620	1.93	0.00	1.93	
14444.00	90.250	341.370	6419.35	7750.73	7277.61	-2701.76	1692437.48	14286674.29	39°20'32.815"N	80°48'57.610"W	7762.93	339.633	1.53	-0.03	1.53	
14538.00	90.340	340.550	6418.87	7844.43	7366.46	-2732.43	1692406.82	14286763.11	39°20'33.694"N	80°48'57.998"W	7856.91	339.649	0.88	0.10	-0.87	

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Goldsmith Unit 2H AWP Proj: 15769



Operator	Area	Field	Facility
ANTERO RESOURCES CORPORATION	Doddrige Co., WV	Doddrige	Middle Pad
	Goldsmith Unit 2H	Well	
	Goldsmith Unit 2H AWB	Wellbore	
	Slot #06	Slot	

WELLPATH DATA (194 Stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[ft]	[ft/100ft]	[ft/100ft]	[ft/100ft]	
14632.00	89.850	339.630	6418.71	7938.24	7454.84	-2764.44	1692374.82	14286851.46	39°20'34.568"N	80°48'58.403"W	7950.90	339.654	1.11	-0.52	-0.98	
14726.00	90.090	337.510	6418.76	8032.17	7542.34	-2798.78	1692340.50	14286938.92	39°20'35.433"N	80°48'58.838"W	8044.88	339.641	2.27	0.26	-2.26	
14819.00	90.090	335.730	6418.62	8125.16	7627.70	-2835.69	1692303.61	14287024.25	39°20'36.278"N	80°48'59.305"W	8137.75	339.607	1.91	0.00	-1.91	
14913.00	90.000	333.130	6418.54	8219.10	7712.49	-2876.25	1692263.06	14287109.00	39°20'37.117"N	80°48'59.820"W	8231.36	339.548	2.77	-0.10	-2.77	
15006.00	89.910	331.900	6418.62	8311.88	7794.99	-2919.17	1692220.15	14287191.47	39°20'37.933"N	80°49'00.364"W	8323.67	339.469	1.33	-0.10	-1.32	
15100.00	89.970	337.330	6418.72	8405.80	7879.88	-2959.46	1692179.89	14287276.33	39°20'38.773"N	80°49'00.874"W	8417.30	339.415	5.78	0.06	5.78	
15193.00	89.940	340.880	6418.79	8498.68	7966.75	-2992.62	1692146.74	14287363.16	39°20'39.632"N	80°49'01.294"W	8510.28	339.412	3.82	-0.03	3.82	
15287.00	90.060	343.230	6418.79	8592.22	8056.17	-3021.58	1692117.79	14287452.55	39°20'40.516"N	80°49'01.660"W	8604.18	339.441	2.50	0.13	2.50	
15381.00	89.910	339.840	6418.81	8685.83	8145.32	-3051.35	1692088.03	14287541.66	39°20'41.398"N	80°49'02.037"W	8698.10	339.463	3.61	-0.16	-3.61	
15475.00	90.000	335.220	6418.89	8779.79	8232.16	-3087.26	1692052.13	14287628.46	39°20'42.257"N	80°49'02.492"W	8792.02	339.443	4.92	0.10	-4.91	
15568.00	90.090	333.940	6418.81	8872.74	8316.15	-3127.18	1692012.22	14287712.42	39°20'43.088"N	80°49'02.998"W	8884.69	339.392	1.38	0.10	-1.38	
15662.00	89.970	335.070	6418.76	8966.69	8401.00	-3167.64	1691971.78	14287797.24	39°20'43.927"N	80°49'03.511"W	8978.35	339.341	1.21	-0.13	1.20	
15745.00	90.000	334.710	6418.79	9049.66	8476.16	-3202.87	1691936.57	14287872.36	39°20'44.671"N	80°49'03.957"W	9061.10	339.300	0.44	0.04	-0.43	
15769.00	90.000	334.710	6418.79	9073.65	8497.85	-3213.12	1691926.32	14287894.05	39°20'44.886"N	80°49'04.087"W	9085.02	339.288	0.00	0.00	0.00	Projected MD @ TD: 15769

HOLE & CASING SECTIONS - Ret Wellbore: Goldsmith Unit 2H AWB													
Ret Wellpath: Goldsmith Unit 2H AWP Proj: 15769													
String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	End N/S	Start EW	End EW	End N/S	End EW	End N/S	End EW
[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Conductor	112.00	112.00	80.00	32.00	112.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02
17.5in Open Hole	112.00	436.00	112.00	547.99	112.00	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.11
13.375in Casing Surface	32.00	548.00	516.00	32.00	547.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30
12.25in Open Hole	548.00	2620.00	2072.00	547.99	2619.72	2.30	2.30	1.75	4.48	1.75	4.48	1.75	2.42
9.625in Casing Intermediate	32.00	2620.00	2588.00	32.00	2619.72	0.00	0.00	0.00	4.48	0.00	4.48	0.00	2.42
8.75in Open Hole	2620.00	6440.00	3820.00	2619.72	6289.37	4.48	4.48	4.48	4.48	2.42	4.48	2.42	4.48
8.5in Open Hole	6440.00	15769.00	9329.00	6289.37	6418.79	-5.50	-5.50	4.48	4.48	4.48	4.48	4.48	4.48
5.5in Casing Production	32.00	15769.00	15737.00	32.00	6418.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Goldsmith Unit 2H
Field	Doddridge	Wellbore	Goldsmith Unit 2H AWB
Facility	Middle Pad		

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Goldsmith Unit 2H POE Rev-2	6390.00	177.11	429.39	1695567.38	14279576.63	39°19'22.571"N	80°48'17.951"W	point	
Goldsmith Unit 2H BHL Rev-2	6430.00	8455.82	-3206.98	1691932.46	14287852.03	39°20'44.470"N	80°49'04.010"W	point	
Goldsmith Unit 2H LP Rev-1	6430.00	392.48	318.42	1695456.46	14279791.91	39°19'24.702"N	80°48'19.358"W	point	

WELLPATH COMPOSITION - Ref Wellbore: Goldsmith Unit 2H AWB Ref Wellpath: Goldsmith Unit 2H AWP Proj: 15769'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	514.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2"> (100'-497')	Goldsmith Unit 2H AWB
514.00	2548.00	ISCWSA MWD, Rev. 4 (Standard)	02 Directional ONE MWD <12-1/4"> (497')(559'-2531')	Goldsmith Unit 2H AWB
2548.00	6373.00	ISCWSA MWD, Rev. 4 (Standard)	03 Directional ONE MWD <8-3/4"> (2531')(2650'-6356')	Goldsmith Unit 2H AWB
6373.00	15745.00	BHI AutoTrak Curve (Standard)	04 BHI AT Curve <8-1/2">(6373')(6410'-15745')	Goldsmith Unit 2H AWB
15745.00	15769.00	Blind Drilling (std)	Projection to bit	Goldsmith Unit 2H AWB

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Goldsmith Unit 2H AWP Proj: 15769'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Goldsmith Unit 2H
Field	Doddridge	Wellbore	Goldsmith Unit 2H AWB
Facility	Middle Pad		

COMMENTS

Wellpath general comments

API: 47-017-06821-0000

BH Job #: 9050763

Rig: Frontier 32

Duration: 03/12/18 - 03/14/18

Gyrodata MS Gyro <17-1/2"> (100'-497')

Directional ONE MWD <12-1/4"> (497')(559'-2531')

Directional ONE MWD <8-3/4"> (2531')(2650'-6356')

BHI AT Curve <8-1/2">(6373')(6410'-15745')

Burket: 6490'MD / 6318'TVD

Tully: 6551'MD / 6347'TVD

Hamilton: 6636'MD / 6379'TVD

POE Marcellus: 6667'MD / 6388'TVD

Projected MD @ TD: 15769

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