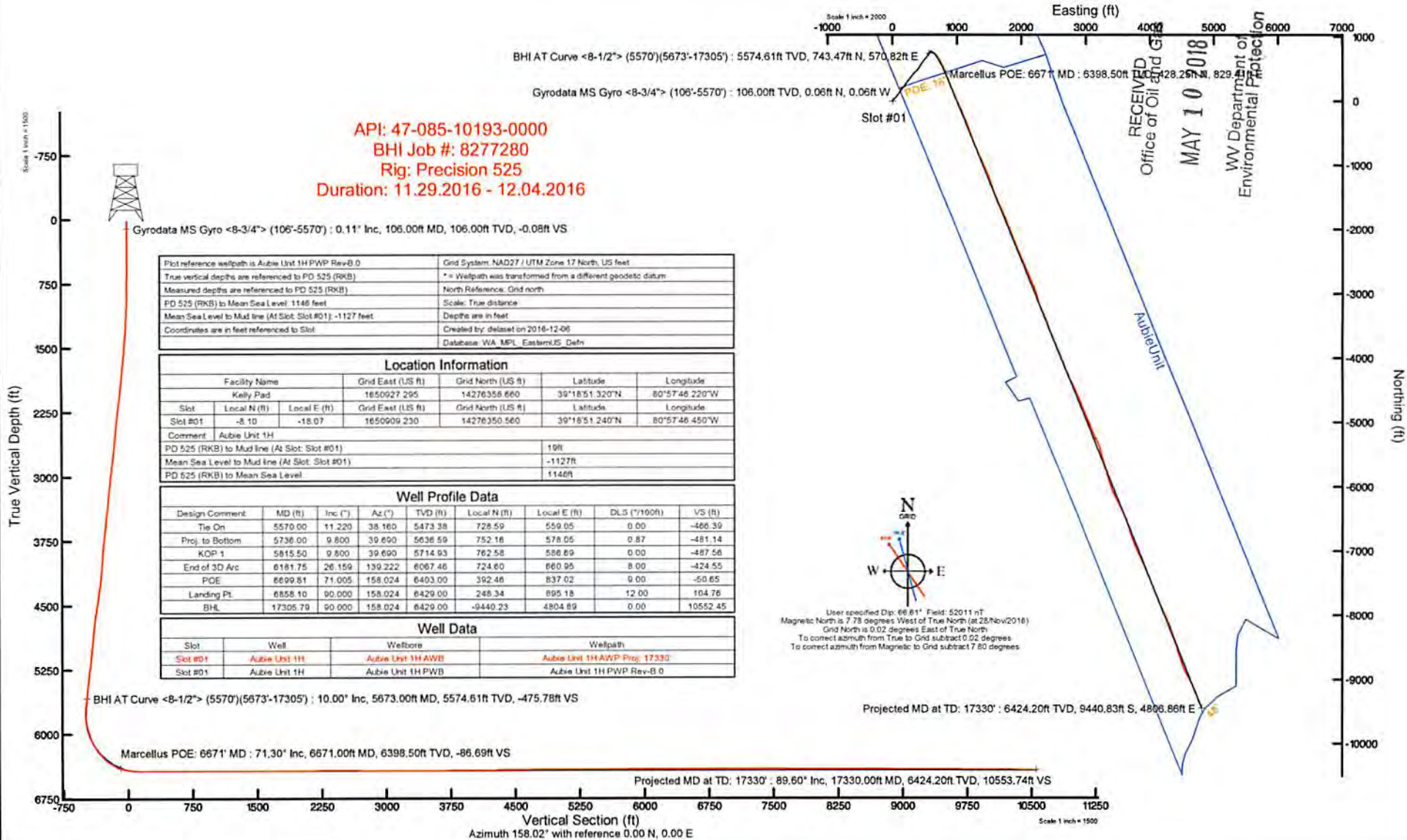




ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV
 Field: Ritchie
 Facility: Kelly Pad

Slot: Slot #01
 Well: Aubie Unit 1H
 Wellbore: Aubie Unit 1H PWB



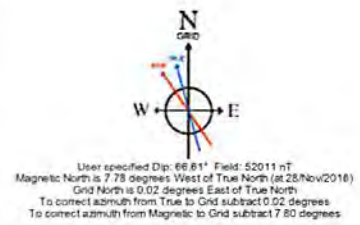
API: 47-085-10193-0000
 BHI Job #: 8277280
 Rig: Precision 525
 Duration: 11.29.2016 - 12.04.2016

Plot reference wellpath is Aubie Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to PD 525 (RKB)	* = Wellpath was transformed from a different geodetic datum
Measured depths are referenced to PD 525 (RKB)	North Reference: Grid north
PD 525 (RKB) to Mean Sea Level: 1148 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #01): -1127 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: delaney on 2016-12-06
	Database: WA_MPL_EasternUS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Kelly Pad	1650927.295	14276358.660	39°18'51.320"N	80°57'46.220"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #01	-8.10	-18.07	1650909.230	14276350.560
			Latitude	Longitude
Slot #01			39°18'51.240"N	80°57'46.450"W
Comment	Aubie Unit 1H			
PD 525 (RKB) to Mud line (At Slot: Slot #01)	10ft			
Mean Sea Level to Mud line (At Slot: Slot #01)	-1127ft			
PD 525 (RKB) to Mean Sea Level	1148ft			

Well Profile Data								
Design Comment	MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5570.00	11.220	38.160	5473.38	728.59	559.05	0.00	-466.39
Proj. to Bottom	5736.00	9.800	39.690	5636.59	752.16	578.05	0.87	-481.14
KOP 1	5815.50	9.800	39.690	5714.93	762.58	586.89	0.00	-487.58
End of 3D Arc	6181.75	26.159	139.222	6067.46	724.60	660.95	8.00	-424.55
POE	6699.81	71.005	158.024	6403.00	392.48	837.02	9.00	-50.65
Landing Pt.	6858.10	90.000	158.024	6429.00	248.34	895.18	12.00	104.76
BHL	17305.79	90.000	158.024	6429.00	-9440.23	4804.89	0.00	10552.45

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #01	Aubie Unit 1H	Aubie Unit 1H AWB	Aubie Unit 1H AWP Proj: 17330
Slot #01	Aubie Unit 1H	Aubie Unit 1H PWB	Aubie Unit 1H PWP Rev-B.0



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BHI AT Curve <8-1/2"> (5570)(5673-17305) : 5574.61ft TVD, 743.47ft N, 570.82ft E
 Gyrodata MS Gyro <8-3/4"> (106'-5570') : 106.00ft TVD, 0.06ft N, 0.06ft W
 Marcellus POE: 6671' MD : 6398.50ft TVD, 428.25ft S, 829.4ft E

Gyrodata MS Gyro <8-3/4"> (106'-5570') : 0.11' Inc, 106.00ft MD, 106.00ft TVD, -0.08ft VS

BHI AT Curve <8-1/2"> (5570)(5673-17305) : 10.00' Inc, 5673.00ft MD, 5574.61ft TVD, -475.78ft VS

Marcellus POE: 6671' MD : 71.30' Inc, 6671.00ft MD, 6398.50ft TVD, -86.69ft VS

Projected MD at TD: 17330' : 6424.20ft TVD, 9440.83ft S, 4896.86ft E

Projected MD at TD: 17330' : 89.60' Inc, 17330.00ft MD, 6424.20ft TVD, 10553.74ft VS

Vertical Section (ft)
 Azimuth 158.02' with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Ritchie County, WV	Well	Aubie Unit 1H
Field	Ritchie	Wellbore	Aubie Unit 1H AWB
Facility	Kelly Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Delaset
Scale	0.999600	Report Generated	06/Dec/2016 at 16:44
Convergence at slot	0.03° East	Database/Source file	WA_MPL_EasternUS_Defn/Aubie_Unit_1H_AWP_Proj_17330_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-8.10	-18.07	1650909.23	14276350.56	39°18'51.240"N	80°57'46.450"W
Facility Reference Pt			1650927.30	14276358.66	39°18'51.320"N	80°57'46.220"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	PD 525 (RKB) to Facility Vertical Datum	19.00ft
Horizontal Reference Pt	Slot	PD 525 (RKB) to Mean Sea Level	1146.00ft
Vertical Reference Pt	PD 525 (RKB)	PD 525 (RKB) to Mud Line at Slot (Slot #01)	19.00ft
MD Reference Pt	PD 525 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.02°



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Kelly Pad
Well	Wellbore
Well	Aubie Unit 1H
Well	Aubie Unit 1H AWB

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
0.00†	0.000	317.850	0.00	0.00	0.00	0.00	1650909.23	14276350.56	39°18'51.240"N	80°57'46.450"W	0.00	0.000	0.00	0.00	0.00	
19.00	0.000	317.850	19.00	0.00	0.00	0.00	1650909.23	14276350.56	39°18'51.240"N	80°57'46.450"W	0.00	0.000	0.00	0.00	0.00	
106.00	0.110	317.850	106.00	-0.08	0.06	-0.06	1650909.17	14276350.62	39°18'51.241"N	80°57'46.451"W	0.08	317.850	0.13	-48.45	Gyrodatta MS Gyro <8-3/4"> (106-5570)	
206.00	0.120	163.810	206.00	-0.06	0.03	-0.09	1650909.14	14276350.59	39°18'51.240"N	80°57'46.451"W	0.10	289.611	0.22	0.01	-154.04	
306.00	0.050	129.950	306.00	0.08	-0.10	-0.03	1650909.20	14276350.46	39°18'51.239"N	80°57'46.450"W	0.10	196.588	0.08	-0.07	-33.86	
406.00	0.040	98.520	406.00	0.13	-0.13	0.04	1650909.27	14276350.43	39°18'51.238"N	80°57'46.449"W	0.14	163.066	0.03	-0.01	-31.43	
506.00	0.080	268.400	506.00	0.13	-0.14	0.00	1650909.23	14276350.42	39°18'51.239"N	80°57'46.450"W	0.14	178.282	0.12	0.04	169.88	
606.00	0.300	304.190	606.00	0.02	-0.14	-0.30	1650908.93	14276350.55	39°18'51.240"N	80°57'46.454"W	0.30	274.422	0.27	0.25	35.79	
706.00	0.670	313.470	706.00	-0.91	0.59	-0.97	1650908.26	14276351.15	39°18'51.246"N	80°57'46.462"W	1.13	301.299	0.35	9.28		
806.00	0.750	312.880	806.99	-2.03	1.44	-1.87	1650907.36	14276351.99	39°18'51.254"N	80°57'46.474"W	2.36	307.500	0.08	-0.59		
906.00	0.790	307.990	905.98	-3.22	2.30	-2.89	1650906.34	14276352.86	39°18'51.263"N	80°57'46.487"W	3.70	308.542	0.08	-4.89		
1006.00	1.670	27.200	1005.96	-4.77	4.03	-2.77	1650906.46	14276354.58	39°18'51.280"N	80°57'46.485"W	4.89	325.462	1.71	0.88	79.21	
1106.00	4.120	37.500	1105.83	-7.55	8.17	0.08	1650909.31	14276358.73	39°18'51.321"N	80°57'46.449"W	8.17	0.581	2.49	2.45	10.30	
1206.00	6.490	43.450	1205.39	-11.72	15.13	6.16	1650915.38	14276365.68	39°18'51.389"N	80°57'46.372"W	16.33	22.150	2.43	2.37	5.95	
1306.00	8.840	46.340	1304.49	-16.91	24.53	15.60	1650924.83	14276375.08	39°18'51.482"N	80°57'46.251"W	29.08	32.456	2.38	2.89		
1406.00	10.190	45.070	1403.11	-23.20	36.09	27.43	1650936.64	14276388.63	39°18'51.587"N	80°57'46.101"W	45.33	37.235	1.37	1.35	-1.27	
1506.00	11.050	42.840	1501.40	-30.73	49.36	40.20	1650949.42	14276399.90	39°18'51.728"N	80°57'45.938"W	63.66	39.163	0.95	0.86	-2.23	
1606.00	11.880	40.640	1599.40	-39.54	64.20	53.43	1650962.63	14276414.73	39°18'51.874"N	80°57'45.770"W	83.52	39.766	0.94	0.83	-2.20	
1706.00	11.470	37.320	1697.34	-49.35	79.92	66.16	1650975.36	14276430.45	39°18'52.030"N	80°57'45.608"W	103.75	39.619	0.79	-3.32		
1806.00	11.600	37.470	1795.32	-59.53	95.80	78.30	1650987.50	14276448.33	39°18'52.187"N	80°57'45.453"W	123.73	39.259	0.13	0.16		
1906.00	11.710	37.960	1893.25	-69.73	111.78	90.66	1650999.85	14276462.30	39°18'52.344"N	80°57'45.296"W	143.93	39.043	0.15	0.49		
2006.00	12.410	34.590	1991.05	-80.73	128.63	103.00	1651012.19	14276479.14	39°18'52.511"N	80°57'45.139"W	164.79	38.686	0.99	-3.37		
2106.00	12.900	34.380	2088.62	-92.83	146.69	115.41	1651024.59	14276497.19	39°18'52.689"N	80°57'44.981"W	186.65	38.193	0.49	-0.21		
2206.00	13.450	38.170	2185.99	-104.81	165.05	128.90	1651038.07	14276515.54	39°18'52.871"N	80°57'44.809"W	209.42	37.989	1.02	3.79		
2306.00	11.790	33.500	2283.57	-116.39	182.71	141.72	1651050.90	14276533.20	39°18'53.045"N	80°57'44.646"W	231.23	37.800	1.95	-4.67		
2406.00	11.160	33.690	2381.57	-127.63	199.28	152.73	1651061.90	14276549.76	39°18'53.209"N	80°57'44.506"W	251.08	37.467	0.63	-0.19		
2506.00	11.600	42.480	2479.61	-137.43	214.75	164.89	1651074.05	14276566.22	39°18'53.362"N	80°57'44.351"W	270.75	37.518	1.79	8.79		
2606.00	10.440	39.790	2577.77	-146.05	229.13	177.48	1651086.64	14276579.60	39°18'53.504"N	80°57'44.191"W	289.82	37.761	1.27	-2.69		
2706.00	10.070	32.950	2676.17	-155.36	243.43	188.03	1651097.19	14276593.89	39°18'53.645"N	80°57'44.056"W	307.59	37.684	1.27	-6.84		
2806.00	11.990	33.220	2774.32	-166.31	259.45	198.48	1651107.63	14276609.91	39°18'53.804"N	80°57'43.923"W	326.67	37.416	1.92	0.27		

Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330

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Actual Wellpath Report

Antero Unit 1H AWP Proj: 17330

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Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Kelly Pad
Well	Antero Unit 1H
Wellbore	Antero Unit 1H AWP
Slot	Slot #01

WELLPATH DATA (208 stations)													
MD	Inclination	Azimuth	TVD	East	North	Grd East	Grd North	Latitude	Longitude	Closure Dist	Closure Dir	Turn Rate	
ft	°	°	ft	ft	ft	ft	ft	°	ft	ft	°	°/100ft	
2906.00	12.440	2872.06	-178.15	277.00	210.30	1651119.45	14276627.45	39°18'53.97"N	80°57'43.77"W	347.79	37.207	0.55	
3006.00	12.800	2969.64	-189.68	294.63	223.19	1651132.33	14276645.07	39°18'54.151"N	80°57'43.609"W	369.62	37.145	0.36	
3106.00	13.480	3067.02	-201.04	312.64	237.20	1651146.33	14276662.97	39°18'54.328"N	80°57'43.430"W	392.35	37.196	0.68	
3206.00	13.120	3164.34	-211.89	330.19	251.94	1651161.07	14276680.62	39°18'54.502"N	80°57'43.243"W	415.33	37.344	0.75	
3306.00	11.710	3262.00	-221.58	346.35	266.11	1651175.24	14276696.77	39°18'54.662"N	80°57'43.062"W	436.78	37.536	1.41	
3406.00	10.720	3360.09	-231.07	361.50	278.28	1651187.40	14276711.92	39°18'54.812"N	80°57'42.908"W	456.21	37.588	1.40	
3506.00	12.180	3458.10	-241.08	377.20	290.42	1651199.53	14276727.61	39°18'54.967"N	80°57'42.753"W	476.05	37.594	1.46	
3606.00	11.310	3556.01	-251.42	393.34	302.80	1651211.91	14276743.75	39°18'55.126"N	80°57'42.595"W	496.40	37.590	1.12	
3706.00	11.400	3654.05	-261.73	409.18	314.49	1651223.60	14276759.58	39°18'55.283"N	80°57'42.446"W	516.08	37.545	0.09	
3806.00	11.730	3752.02	-272.16	425.26	326.47	1651235.67	14276775.65	39°18'55.442"N	80°57'42.294"W	536.12	37.513	0.38	
3906.00	12.020	3849.89	-281.68	440.90	339.77	1651248.86	14276791.28	39°18'55.596"N	80°57'42.125"W	556.63	37.619	0.29	
4006.00	13.960	3947.33	-289.06	456.66	356.64	1651265.73	14276806.04	39°18'55.742"N	80°57'41.910"W	576.64	38.050	2.68	
4106.00	12.870	4044.60	-296.07	470.44	374.51	1651283.59	14276820.81	39°18'55.888"N	80°57'41.683"W	601.30	38.523	1.54	
4206.00	11.260	4080.00	-304.35	485.28	389.16	1651298.23	14276835.65	39°18'56.035"N	80°57'41.496"W	622.05	38.727	2.20	
4306.00	13.160	4240.14	-315.44	502.28	401.65	1651310.72	14276852.64	39°18'56.203"N	80°57'41.337"W	643.13	38.648	2.59	
4406.00	13.320	4337.48	-329.11	521.83	413.58	1651322.64	14276872.18	39°18'56.396"N	80°57'41.185"W	665.85	38.398	0.52	
4506.00	14.400	4434.57	-342.98	542.00	426.47	1651335.53	14276892.34	39°18'56.595"N	80°57'41.021"W	689.67	38.197	1.51	
4606.00	14.300	4531.45	-357.32	562.85	439.84	1651348.89	14276913.19	39°18'56.801"N	80°57'40.851"W	714.32	38.006	1.03	
4706.00	13.440	4628.54	-371.89	583.49	452.03	1651361.08	14276933.81	39°18'57.005"N	80°57'40.696"W	738.10	37.765	0.86	
4806.00	13.570	4725.78	-384.58	602.53	465.44	1651374.48	14276952.84	39°18'57.193"N	80°57'40.525"W	761.36	37.685	2.12	
4906.00	11.520	4823.39	-394.53	619.02	479.56	1651388.60	14276969.33	39°18'57.356"N	80°57'40.345"W	783.05	37.765	2.10	
5006.00	11.810	4921.33	-404.46	634.81	492.15	1651401.18	14276985.11	39°18'57.512"N	80°57'40.185"W	803.24	37.785	1.27	
5106.00	12.240	5019.14	-414.70	651.08	505.12	1651414.14	14277001.38	39°18'57.673"N	80°57'40.020"W	824.04	37.805	1.31	
5206.00	11.590	5116.98	-424.23	666.77	518.53	1651427.55	14277017.06	39°18'57.828"N	80°57'39.849"W	844.66	37.871	0.76	
5306.00	12.330	5214.82	-435.46	683.68	530.41	1651439.43	14277033.96	39°18'57.995"N	80°57'39.698"W	865.31	37.805	1.94	
5406.00	11.910	5312.59	-448.13	701.70	541.19	1651450.20	14277051.97	39°18'58.173"N	80°57'39.561"W	886.15	37.642	0.42	
5506.00	11.090	5410.58	-459.81	718.57	551.80	1651460.81	14277068.84	39°18'58.340"N	80°57'39.425"W	905.99	37.521	0.98	
5606.00	11.220	5473.38	-466.39	728.59	559.05	1651468.06	14277078.86	39°18'58.439"N	80°57'39.333"W	918.36	37.499	1.40	
5673.00	10.000	5574.61	-475.78	743.47	570.82	1651479.82	14277093.73	39°18'58.586"N	80°57'39.183"W	937.32	37.516	1.19	
5718.00	11.670	5618.81	-480.32	750.34	575.73	1651484.73	14277100.60	39°18'58.664"N	80°57'39.121"W	945.77	37.499	4.37	
BHI AT Curve <B-12> (5570)(5673-17305)												0.37	-12.29



Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Ritchie County, WV	Well	Aubie Unit 1H
Field	Ritchie	Wellbore	Aubie Unit 1H AWB
Facility	Kelly Pad		

WELLPATH DATA (208 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
6927.00	89.940	156.050	6427.90	166.26	191.76	919.30	1651828.16	14276542.24	39°18'53.131"N	80°57'34.753"W	939.09	78.218	3.71	0.07	-3.71	
7017.00	89.940	156.860	6427.99	256.22	109.25	955.26	1651864.10	14276459.77	39°18'52.316"N	80°57'34.296"W	961.48	83.475	0.90	0.00	0.90	
7107.00	90.030	156.370	6428.01	346.20	26.65	990.98	1651899.81	14276377.19	39°18'51.499"N	80°57'33.842"W	991.33	88.460	0.55	0.10	-0.54	
7196.00	89.970	156.330	6428.01	435.16	-54.88	1026.68	1651935.50	14276295.70	39°18'50.693"N	80°57'33.388"W	1028.14	93.060	0.08	-0.07	-0.04	
7286.00	89.970	156.940	6428.06	525.13	-137.50	1062.37	1651971.17	14276213.12	39°18'49.876"N	80°57'32.934"W	1071.23	97.375	0.68	0.00	0.68	
7375.00	90.060	156.730	6428.04	614.11	-219.32	1097.38	1652006.17	14276131.32	39°18'49.068"N	80°57'32.489"W	1119.08	101.302	0.26	0.10	-0.24	
7465.00	90.000	156.590	6427.99	704.09	-301.96	1133.04	1652041.81	14276048.72	39°18'48.251"N	80°57'32.036"W	1172.59	104.923	0.17	-0.07	-0.16	
7555.00	90.000	159.630	6427.99	794.08	-385.46	1166.59	1652075.35	14275965.25	39°18'47.425"N	80°57'31.610"W	1228.62	108.284	3.38	0.00	3.38	
7644.00	90.000	162.480	6427.99	882.94	-469.63	1195.48	1652104.23	14275881.12	39°18'46.593"N	80°57'31.243"W	1284.42	111.447	3.20	0.00	3.20	
7734.00	90.030	161.100	6427.97	972.75	-555.12	1223.61	1652132.34	14275795.66	39°18'45.748"N	80°57'30.885"W	1343.64	114.403	1.53	0.03	-1.53	
7824.00	90.030	159.460	6427.92	1062.67	-639.84	1253.97	1652162.70	14275710.98	39°18'44.911"N	80°57'30.499"W	1407.78	117.033	1.82	0.00	-1.82	
7913.00	90.180	154.990	6427.76	1151.64	-721.88	1288.42	1652197.13	14275628.97	39°18'44.100"N	80°57'30.062"W	1476.86	119.261	5.03	0.17	-5.02	
8003.00	89.850	154.250	6427.73	1241.48	-803.19	1326.99	1652235.69	14275547.69	39°18'43.296"N	80°57'29.571"W	1551.14	121.185	0.90	-0.37	-0.82	
8093.00	89.780	156.170	6428.02	1331.37	-884.89	1364.73	1652273.41	14275466.02	39°18'42.488"N	80°57'29.092"W	1626.50	122.960	2.13	-0.08	2.13	
8182.00	90.000	156.040	6428.20	1420.32	-966.27	1400.78	1652309.44	14275384.68	39°18'41.684"N	80°57'28.634"W	1701.72	124.598	0.29	0.25	-0.15	
8272.00	89.940	155.820	6428.24	1510.26	-1048.44	1437.48	1652346.14	14275302.54	39°18'40.871"N	80°57'28.167"W	1779.21	126.105	0.25	-0.07	-0.24	
8361.00	89.720	155.790	6428.51	1599.19	-1129.62	1473.96	1652382.60	14275221.39	39°18'40.069"N	80°57'27.704"W	1857.04	127.466	0.25	-0.25	-0.03	
8451.00	89.380	159.260	6429.21	1689.17	-1212.77	1508.36	1652416.98	14275138.28	39°18'39.247"N	80°57'27.266"W	1935.45	128.800	3.87	-0.38	3.86	
8541.00	89.910	164.020	6429.77	1778.97	-1298.16	1536.70	1652445.31	14275052.92	39°18'38.403"N	80°57'26.906"W	2011.63	130.190	5.32	0.59	5.29	
8630.00	90.120	161.940	6429.75	1867.63	-1383.26	1562.75	1652471.35	14274967.86	39°18'37.561"N	80°57'26.576"W	2087.01	131.514	2.35	0.24	-2.34	
8720.00	90.250	156.830	6429.46	1957.57	-1467.47	1594.43	1652503.01	14274883.68	39°18'36.729"N	80°57'26.173"W	2166.95	132.626	5.68	0.14	-5.68	
8809.00	89.720	156.310	6429.48	2046.54	-1549.13	1629.81	1652538.39	14274802.05	39°18'35.922"N	80°57'25.723"W	2248.58	133.546	0.83	-0.60	-0.58	
8899.00	90.890	157.000	6429.00	2136.51	-1631.76	1665.48	1652574.04	14274719.46	39°18'35.105"N	80°57'25.270"W	2331.62	134.414	1.51	1.30	0.77	
8989.00	92.090	156.440	6426.66	2226.46	-1714.40	1701.03	1652609.58	14274636.85	39°18'34.288"N	80°57'24.818"W	2415.10	135.224	1.47	1.33	-0.62	
9078.00	90.920	156.340	6424.32	2315.39	-1795.92	1736.67	1652645.20	14274555.36	39°18'33.482"N	80°57'24.365"W	2498.27	135.961	1.32	-1.31	-0.11	
9168.00	89.540	158.150	6423.96	2405.37	-1878.91	1771.47	1652679.99	14274472.40	39°18'32.662"N	80°57'23.923"W	2582.33	136.686	2.53	-1.53	2.01	
9258.00	89.420	159.350	6424.78	2495.36	-1962.79	1804.09	1652712.60	14274388.56	39°18'31.832"N	80°57'23.509"W	2665.95	137.412	1.34	-0.13	1.33	
9347.00	89.110	157.960	6425.92	2584.35	-2045.67	1836.48	1652744.98	14274305.71	39°18'31.013"N	80°57'23.097"W	2749.08	138.084	1.60	-0.35	-1.56	
9437.00	89.290	158.440	6427.18	2674.34	-2129.23	1869.90	1652778.38	14274222.19	39°18'30.187"N	80°57'22.672"W	2833.75	138.710	0.57	0.20	0.53	
9527.00	90.030	158.110	6427.71	2764.33	-2212.83	1903.22	1652811.68	14274138.82	39°18'29.361"N	80°57'22.249"W	2918.71	139.302	0.90	0.82	-0.37	



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Kelly Pad
Well	Well
Auble Unit 1H	Auble Unit 1H
Auble Unit 1H AWB	Auble Unit 1H AWB
Slot	Slot #01

MD	Inclination	Azimuth	TVD	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	ft	ft	ft	ft	ft	ft	ft/100ft	ft/100ft	
9617.00	90.060	159.290	6427.64	2854.33	-2296.68	1935.91	14274054.80	39°18'28.532"N	80°57'21.834"W	3003.75	139.872	1.31	0.03	1.31	
9707.00	90.030	158.200	6427.57	2944.32	-2380.56	1968.53	14273970.96	39°18'27.703"N	80°57'21.419"W	3089.04	140.412	1.21	-0.03	-1.21	
9796.00	90.000	155.310	6427.55	3033.29	-2462.33	2003.66	14273889.22	39°18'26.894"N	80°57'20.973"W	3174.54	140.864	3.25	-0.03	-3.25	
9886.00	90.090	155.040	6427.48	3123.18	-2544.01	2041.44	14273807.57	39°18'26.087"N	80°57'20.493"W	3261.82	141.255	0.32	0.10	-0.30	
9976.00	89.850	157.600	6427.52	3213.13	-2626.43	2077.59	14273725.19	39°18'25.272"N	80°57'20.033"W	3348.80	141.655	2.86	-0.27	2.84	
10065.00	89.910	158.940	6427.71	3302.13	-2709.10	2110.54	14273642.55	39°18'24.456"N	80°57'19.615"W	3434.18	142.079	1.51	0.07	1.51	
10155.00	89.940	156.270	6427.83	3392.11	-2792.30	2144.82	14273559.38	39°18'23.632"N	80°57'19.179"W	3520.97	142.471	2.97	0.03	-2.97	
10244.00	89.600	156.210	6428.18	3481.07	-2873.76	2180.68	14273477.95	39°18'22.827"N	80°57'18.723"W	3607.47	142.808	0.39	-0.38	0.07	
10334.00	89.970	161.770	6428.52	3571.02	-2957.74	2212.93	14273394.01	39°18'21.997"N	80°57'18.314"W	3693.96	143.197	6.19	0.41	6.18	
10424.00	90.770	165.610	6427.94	3660.56	-3044.14	2238.20	14273307.68	39°18'21.143"N	80°57'17.993"W	3778.57	143.674	4.36	0.89	4.27	
10513.00	90.890	165.300	6428.65	3748.80	-3130.24	2260.55	14273221.58	39°18'20.292"N	80°57'17.709"W	3861.15	144.164	0.37	0.13	-0.35	
10603.00	90.580	157.980	6428.50	3838.56	-3228.88	2288.88	14273136.26	39°18'19.448"N	80°57'17.349"W	3947.03	144.566	8.14	-0.34	-8.13	
10693.00	90.550	153.500	6424.61	3928.46	-3297.62	2325.85	14273054.26	39°18'18.637"N	80°57'16.879"W	4035.33	144.804	4.98	-0.03	-4.98	
10782.00	89.320	150.580	6424.71	4016.96	-3376.22	2367.57	14272975.69	39°18'17.860"N	80°57'16.349"W	4123.62	144.960	3.56	-1.38	-3.28	
10872.00	90.830	164.480	6424.59	4106.76	-3458.91	2402.62	14272893.04	39°18'17.042"N	80°57'15.904"W	4211.49	145.215	14.43	1.68	14.33	
10962.00	90.770	160.650	6423.33	4196.51	-3544.52	2430.33	14272807.47	39°18'16.196"N	80°57'15.552"W	4297.69	145.563	3.14	-0.07	-3.14	
11051.00	90.490	157.660	6422.36	4285.48	-3627.68	2461.99	14272724.34	39°18'15.374"N	80°57'15.160"W	4384.23	145.836	3.37	-0.31	-3.36	
11141.00	90.770	158.990	6421.37	4375.47	-3711.31	2495.23	14272640.74	39°18'14.547"N	80°57'14.727"W	4472.13	146.086	1.51	0.31	1.48	
11231.00	90.520	157.520	6420.35	4465.46	-3794.90	2528.57	14272557.19	39°18'13.721"N	80°57'14.304"W	4560.14	146.324	1.66	-0.28	-1.63	
11320.00	90.800	158.230	6419.33	4554.46	-3877.34	2562.09	14272474.78	39°18'12.906"N	80°57'13.878"W	4647.37	146.544	0.86	0.31	0.80	
11410.00	90.980	160.040	6417.93	4644.42	-3961.42	2594.14	14272390.73	39°18'12.075"N	80°57'13.471"W	4735.23	146.781	2.02	0.20	2.01	
11499.00	90.710	158.780	6416.62	4733.39	-4044.73	2625.43	14272307.46	39°18'11.251"N	80°57'13.073"W	4822.10	147.012	1.45	-0.30	-1.42	
11589.00	90.150	157.970	6415.94	4823.38	-4128.39	2658.60	14272223.83	39°18'10.424"N	80°57'12.652"W	4910.37	147.219	1.09	-0.62	-0.90	
11679.00	90.160	156.370	6415.68	4913.37	-4211.33	2693.52	14272140.92	39°18'09.604"N	80°57'12.208"W	4999.04	147.398	1.78	0.03	-1.78	
11768.00	90.180	154.720	6415.40	5002.28	-4292.35	2730.36	14272059.94	39°18'08.803"N	80°57'11.740"W	5087.15	147.540	1.85	0.00	-1.85	
11858.00	90.280	153.250	6415.04	5092.06	-4373.22	2769.83	14271979.09	39°18'08.004"N	80°57'11.238"W	5176.59	147.651	1.64	0.11	-1.63	
11947.00	90.310	155.250	6414.58	5180.86	-4453.38	2808.50	14271898.97	39°18'07.211"N	80°57'10.747"W	5265.00	147.763	2.25	0.03	2.25	
12037.00	90.060	157.470	6414.29	5270.81	-4535.82	2844.58	14271816.56	39°18'06.396"N	80°57'10.289"W	5354.00	147.907	2.48	-0.28	2.47	
12126.00	90.370	157.810	6413.96	5359.81	-4618.13	2878.44	14271734.29	39°18'05.583"N	80°57'09.858"W	5441.74	148.065	0.52	0.35	0.38	
12215.00	90.180	158.230	6413.53	5448.81	-4700.66	2911.75	14271651.79	39°18'04.767"N	80°57'09.435"W	5529.42	148.225	0.52	-0.21	0.47	

Actual Wellpath Report
 Auble Unit 1H AWP Proj: 17330
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WV Department of
 Environmental Protection





REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Ritchie County, WV
Field	Ritchie
Facility	Kelly Pad
Well	Wellbore
Auble Unit 1H	Auble Unit 1H AWB
Slot #01	

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
12305.00	90.280	156.230	6413.17	5538.80	-4733.64	2946.58	1653854.63	14271568.84	39°18'03.946"N	80°57'08.993"W	6618.32	148.368	2.22	0.11	-2.22	
12394.00	90.120	156.010	6412.86	5627.75	-4865.02	2982.61	1653890.64	14271487.49	39°18'03.142"N	80°57'08.535"W	5706.52	148.489	0.31	-0.18	-0.25	
12464.00	90.150	156.920	6412.65	5717.71	-4947.53	3018.55	1653926.56	14271405.01	39°18'02.326"N	80°57'08.078"W	5795.66	148.612	1.01	0.03	1.01	
12573.00	90.310	158.030	6412.29	5806.71	-5029.74	3052.64	1653960.65	14271322.84	39°18'01.513"N	80°57'07.645"W	5883.62	148.746	1.26	0.18	1.26	
12663.00	90.220	157.570	6411.87	5896.70	-5113.07	3086.65	1653994.64	14271239.54	39°18'00.690"N	80°57'07.213"W	5972.51	148.882	0.52	-0.10	-0.51	
12752.00	90.250	153.290	6411.51	5985.59	-5193.99	3123.64	1654031.62	14271158.66	39°17'59.890"N	80°57'06.743"W	6060.92	148.977	4.81	0.03	-4.81	
12842.00	90.250	152.780	6411.12	6075.25	-5274.21	3164.45	1654072.41	14271078.47	39°17'59.097"N	80°57'06.225"W	6150.69	149.037	0.57	0.00	-0.57	
12932.00	90.250	161.960	6410.72	6165.15	-5357.19	3199.05	1654106.99	14270995.53	39°17'58.276"N	80°57'05.785"W	6239.66	149.156	10.20	0.00	10.20	
13021.00	90.340	162.500	6410.26	6253.90	-5441.94	3226.21	1654134.14	14270910.81	39°17'57.438"N	80°57'05.440"W	6326.38	149.339	0.62	0.10	0.61	
13111.00	90.430	165.510	6409.68	6343.40	-5528.44	3251.01	1654158.93	14270824.34	39°17'56.583"N	80°57'05.125"W	6413.48	149.542	3.35	0.10	3.34	
13201.00	90.370	163.570	6409.03	6432.81	-5615.18	3274.99	1654182.91	14270737.64	39°17'55.726"N	80°57'04.821"W	6500.45	149.748	2.16	-0.07	-2.16	
13290.00	90.490	163.440	6408.36	6521.40	-5700.52	3300.26	1654208.17	14270652.34	39°17'54.882"N	80°57'04.500"W	6586.93	149.932	0.20	0.13	-0.15	
13380.00	90.460	165.720	6407.62	6610.81	-5787.27	3324.19	1654232.09	14270565.62	39°17'54.025"N	80°57'04.196"W	6674.03	150.127	2.53	-0.03	2.53	
13469.00	90.550	164.730	6406.83	6699.10	-5873.32	3346.89	1654254.77	14270479.60	39°17'53.174"N	80°57'03.908"W	6760.00	150.324	1.12	0.10	-1.11	
13559.00	90.150	161.540	6406.28	6788.73	-5959.44	3372.98	1654280.87	14270393.52	39°17'52.323"N	80°57'03.577"W	6847.77	150.490	3.57	-0.44	-3.54	
13648.00	90.120	157.140	6406.07	6877.68	-6042.69	3404.39	1654312.25	14270310.30	39°17'51.500"N	80°57'03.178"W	6935.70	150.604	4.94	-0.03	-4.94	
13738.00	90.180	154.560	6405.84	6967.61	-6124.81	3441.21	1654349.05	14270228.21	39°17'50.688"N	80°57'02.710"W	7025.32	150.671	2.87	0.07	-2.87	
13827.00	90.150	153.170	6405.58	7056.37	-6204.71	3480.41	1654388.24	14270148.35	39°17'49.898"N	80°57'02.212"W	7114.18	150.711	1.56	-0.03	-1.56	
13917.00	89.780	152.590	6405.64	7146.01	-6284.81	3521.44	1654429.25	14270068.28	39°17'49.106"N	80°57'01.691"W	7204.12	150.738	0.76	-0.41	-0.64	
14007.00	89.780	154.920	6405.98	7235.75	-6365.53	3561.23	1654469.03	14269987.59	39°17'48.308"N	80°57'01.185"W	7293.89	150.775	2.59	0.00	2.59	
14096.00	89.690	156.590	6406.39	7324.68	-6446.67	3597.78	1654505.56	14269906.48	39°17'47.506"N	80°57'00.721"W	7382.65	150.835	1.88	-0.10	1.88	
14185.00	89.820	160.400	6406.77	7413.66	-6529.46	3630.40	1654538.17	14269823.72	39°17'46.688"N	80°57'00.306"W	7470.85	150.926	4.28	0.16	4.28	
14275.00	89.850	162.550	6407.03	7503.49	-6614.79	3658.99	1654566.75	14269738.43	39°17'45.844"N	80°56'59.943"W	7559.34	151.051	2.39	0.03	2.39	
14365.00	89.880	163.390	6407.24	7593.15	-6700.84	3686.35	1654593.10	14269652.41	39°17'44.993"N	80°56'59.609"W	7647.42	151.190	0.93	0.03	0.93	
14455.00	89.850	161.020	6407.46	7682.91	-6786.53	3712.85	1654620.59	14269566.76	39°17'44.146"N	80°56'59.260"W	7735.78	151.317	2.63	-0.03	-2.63	
14544.00	89.850	157.500	6407.69	7771.87	-6869.75	3744.36	1654652.09	14269483.57	39°17'43.324"N	80°56'58.859"W	7823.92	151.407	3.96	0.00	3.96	
14634.00	89.850	156.320	6407.93	7861.85	-6952.54	3779.66	1654687.37	14269400.81	39°17'42.505"N	80°56'58.411"W	7913.51	151.470	1.31	0.00	-1.31	
14724.00	89.820	155.760	6408.18	7951.80	-7034.78	3816.21	1654723.90	14269318.60	39°17'41.692"N	80°56'57.947"W	8003.22	151.521	0.62	-0.03	-0.62	
14813.00	89.750	155.120	6408.52	8040.71	-7115.73	3853.20	1654760.88	14269237.69	39°17'40.892"N	80°56'57.477"W	8092.02	151.564	0.72	-0.08	-0.72	
14903.00	89.780	155.720	6408.89	8130.61	-7197.57	3890.63	1654798.30	14269155.88	39°17'40.083"N	80°56'57.001"W	8181.82	151.607	0.67	0.03	0.67	

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Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Ritchie County, WV	Well	Aubie Unit 1H
Field	Ritchie	Wellbore	Aubie Unit 1H AWB
Facility	Kelly Pad		

WELLPATH DATA (208 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
14993.00	89.750	155.110	6409.26	8220.52	-7279.41	3928.08	1654835.73	14269074.07	39°17'39.274"N	80°56'56.525"W	8271.62	151.648	0.68	-0.03	-0.68	
15082.00	89.850	156.430	6409.57	8309.45	-7360.57	3964.60	1654872.24	14268992.95	39°17'38.471"N	80°56'56.061"W	8360.39	151.692	1.49	0.11	1.48	
15172.00	89.720	157.130	6409.91	8399.43	-7443.28	4000.09	1654907.71	14268910.27	39°17'37.654"N	80°56'55.611"W	8450.04	151.746	0.79	-0.14	0.78	
15262.00	89.750	157.630	6410.32	8489.42	-7526.36	4034.70	1654942.31	14268827.23	39°17'36.832"N	80°56'55.171"W	8539.60	151.805	0.56	0.03	0.56	
15351.00	89.820	158.080	6410.66	8578.42	-7608.79	4068.25	1654975.84	14268744.83	39°17'36.017"N	80°56'54.745"W	8628.11	151.868	0.51	0.08	0.51	
15441.00	89.600	157.760	6411.11	8668.42	-7692.19	4102.08	1655009.66	14268661.46	39°17'35.193"N	80°56'54.315"W	8717.61	151.930	0.43	-0.24	-0.36	
15531.00	89.780	157.490	6411.60	8758.41	-7775.41	4136.34	1655043.91	14268578.27	39°17'34.370"N	80°56'53.880"W	8807.17	151.988	0.36	0.20	-0.30	
15621.00	89.540	156.270	6412.13	8848.39	-7858.18	4171.68	1655079.23	14268495.54	39°17'33.552"N	80°56'53.431"W	8896.85	152.037	1.38	-0.27	-1.36	
15710.00	89.720	154.850	6412.71	8937.30	-7939.20	4208.50	1655116.04	14268414.55	39°17'32.751"N	80°56'52.964"W	8985.67	152.072	1.61	0.20	-1.60	
15800.00	89.600	155.870	6413.24	9027.21	-8021.00	4246.02	1655153.54	14268332.78	39°17'31.942"N	80°56'52.487"W	9075.53	152.105	1.14	-0.13	1.13	
15890.00	89.780	157.350	6413.73	9117.17	-8103.60	4281.75	1655189.26	14268250.21	39°17'31.126"N	80°56'52.033"W	9165.25	152.149	1.66	0.20	1.64	
15979.00	89.820	158.800	6414.04	9206.17	-8186.16	4314.98	1655222.47	14268167.69	39°17'30.309"N	80°56'51.611"W	9253.77	152.206	1.63	0.04	1.63	
16069.00	89.780	160.880	6414.35	9296.12	-8270.64	4345.99	1655253.48	14268083.24	39°17'29.474"N	80°56'51.217"W	9342.98	152.279	2.31	-0.04	2.31	
16158.00	89.350	162.400	6415.03	9384.94	-8355.11	4374.03	1655281.50	14267998.81	39°17'28.639"N	80°56'50.861"W	9430.80	152.367	1.77	-0.48	1.71	
16248.00	89.630	163.460	6415.83	9474.60	-8441.14	4400.44	1655307.90	14267912.81	39°17'27.789"N	80°56'50.526"W	9519.28	152.467	1.22	0.31	1.18	
16338.00	89.540	163.670	6416.48	9564.18	-8527.46	4425.91	1655333.36	14267826.53	39°17'26.935"N	80°56'50.203"W	9607.61	152.570	0.25	-0.10	0.23	
16427.00	89.540	162.170	6417.20	9652.85	-8612.53	4452.04	1655359.48	14267741.49	39°17'26.094"N	80°56'49.871"W	9695.17	152.664	1.69	0.00	-1.69	
16517.00	89.630	159.900	6417.85	9742.71	-8697.64	4481.29	1655388.72	14267656.42	39°17'25.253"N	80°56'49.500"W	9784.21	152.741	2.52	0.10	-2.52	
16606.00	89.480	161.850	6418.54	9831.60	-8781.72	4510.45	1655417.86	14267572.37	39°17'24.422"N	80°56'49.129"W	9872.32	152.814	2.20	-0.17	2.19	
16696.00	89.540	153.220	6419.31	9921.51	-8864.81	4544.80	1655452.21	14267489.32	39°17'23.600"N	80°56'48.693"W	9961.93	152.857	9.59	0.07	-9.59	
16786.00	89.540	149.620	6420.03	10010.89	-8943.82	4587.85	1655495.24	14267410.33	39°17'22.819"N	80°56'48.146"W	10051.88	152.844	4.00	0.00	-4.00	
16875.00	89.510	151.410	6420.77	10099.12	-9021.29	4631.65	1655539.02	14267332.89	39°17'22.053"N	80°56'47.590"W	10140.80	152.823	2.01	-0.03	2.01	
16965.00	89.570	155.310	6421.49	10188.81	-9101.72	4672.00	1655579.35	14267252.50	39°17'21.258"N	80°56'47.077"W	10230.78	152.828	4.33	0.07	4.33	
17054.00	89.600	158.620	6422.14	10277.78	-9183.61	4706.82	1655614.16	14267170.64	39°17'20.449"N	80°56'46.635"W	10319.53	152.864	3.72	0.03	3.72	
17144.00	89.540	158.740	6422.81	10367.77	-9267.45	4739.54	1655646.86	14267086.84	39°17'19.620"N	80°56'46.219"W	10409.07	152.914	0.15	-0.07	0.13	
17233.00	89.570	158.560	6423.51	10456.76	-9350.34	4771.94	1655679.25	14267003.98	39°17'18.800"N	80°56'45.808"W	10497.63	152.963	0.21	0.03	-0.20	
17305.00	89.600	159.100	6424.03	10528.75	-9417.48	4797.94	1655705.24	14266936.87	39°17'18.137"N	80°56'45.478"W	10569.25	153.002	0.75	0.04	0.75	
17330.00	89.600	159.100	6424.20	10553.74	-9440.83	4806.86	1655714.16	14266913.52	39°17'17.906"N	80°56'45.364"W	10594.11	153.017	0.00	0.00	0.00	Projected MD at TD: 17330'



Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Ritchie County, WV	Well	Aubie Unit 1H
Field	Ritchie	Wellbore	Aubie Unit 1H AWB
Facility	Kelly Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Aubie Unit 1H AWB Ref Wellpath: Aubie Unit 1H AWP Proj: 17330'									
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	19.00	59.00	40.00	19.00	59.00	0.00	0.00	0.01	-0.01
17.5in Open Hole	59.00	538.00	479.00	59.00	538.00	0.01	-0.01	-0.12	-0.06
13.375in Casing Surface	19.00	538.00	519.00	19.00	538.00	0.00	0.00	-0.12	-0.06
12.25in Open Hole	538.00	2612.00	2074.00	538.00	2583.67	-0.12	-0.06	229.96	178.17
9.625in Casing Intermediate	19.00	2612.00	2593.00	19.00	2583.67	0.00	0.00	229.96	178.17
8.75in Open Hole	2612.00	5736.00	3124.00	2583.67	5636.46	229.96	178.17	753.33	577.65
8.5in Open Hole	5736.00	17330.00	11594.00	5636.46	6424.20	753.33	577.65	-9440.83	4806.86
5.5in Casing Production	19.00	17330.00	17311.00	19.00	6424.20	0.00	0.00	-9440.83	4806.86

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Aubie Unit 1H POE Plat	6403.00	352.58	853.11	1651762.00	14276703.00	39°18'54.721"N	80°57'35.594"W	point
Aubie Unit 1H POE Rev-1	6403.00	392.46	837.02	1651745.92	14276742.86	39°18'55.115"N	80°57'35.798"W	point
Aubie Unit 1H BHL Plat	6429.00	-9404.99	4790.67	1655697.97	14266949.35	39°17'18.260"N	80°56'45.570"W	point
Aubie Unit 1H BHL Rev-1	6429.00	-9440.23	4804.89	1655712.19	14266914.12	39°17'17.912"N	80°56'45.389"W	point
Aubie Unit 1H LP Rev-1	6429.00	248.34	895.18	1651804.05	14276598.80	39°18'53.691"N	80°57'35.059"W	point
Aubie Unit 1H 20' L/R Hard Line	6506.00	-4595.95	2850.03	1653758.12	14271756.46	39°18'05.802"N	80°57'10.220"W	rectangle



Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Ritchie County, WV	Well	Aubie Unit 1H
Field	Ritchie	Wellbore	Aubie Unit 1H AWB
Facility	Kelly Pad		

WELLPATH COMPOSITION - Ref Wellbore: Aubie Unit 1H AWB Ref Wellpath: Aubie Unit 1H AWP Proj: 17330'				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
19.00	5570.00	Gyrodata standard - Drop gyro or Multi-shot	03 Gyrodata MS Gyro <8-3/4"> (100'-5564')	Aubie Unit 1H AWB
5570.00	17305.00	BHI AutoTrak Curve (Axial)	04 BHI AT Curve <8-1/2"> (5570')(5673'-17305')	Aubie Unit 1H AWB
17305.00	17330.00	Blind Drilling (std)	Projection to bit	Aubie Unit 1H AWB



Actual Wellpath Report

Aubie Unit 1H AWP Proj: 17330'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #01
Area	Ritchie County, WV	Well	Aubie Unit 1H
Field	Ritchie	Wellbore	Aubie Unit 1H AWB
Facility	Kelly Pad		

COMMENTS
<p>Wellpath general comments API: 47-085-10193-0000 BHI Job #: 8277280 Rig: Precision 525 Duration: 11.29.2016 - 12.04.2016 Gyrodata MS Gyro <8-3/4"> (106'-5570') BHI AT Curve <8-1/2"> (5570')(5673'-17305') Middlesex: 6401' MD Burkett: 6564' MD Tully: 6622' MD Marcellus POE: 6671' MD Projected MD at TD: 17330'</p>