

ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
 Field: Doddridge
 Facility: Yvonne Pad
 Slot: Slot #08
 Well: Walker Unit 3H
 Wellbore: Walker Unit 3H PWB

Reference wellbore is Walker Unit 3H PWB Rev-A-0
This vertical depth is referenced to Mean Sea Level (MSL)
* - Wellbore was transferred from a different geographic datum
Measured depths are referenced to Patterson 343 (RKB)
Patterson 343 (RKB) to Mean Sea Level: 1252 feet
Mean Sea Level to Mud line (At Slot: Slot #08): -1227 feet
Coordinates are in feet referenced to Slot
Created by: hankm on 2016-10-26
Database: VA_MPL_EASTERNUS_Datn

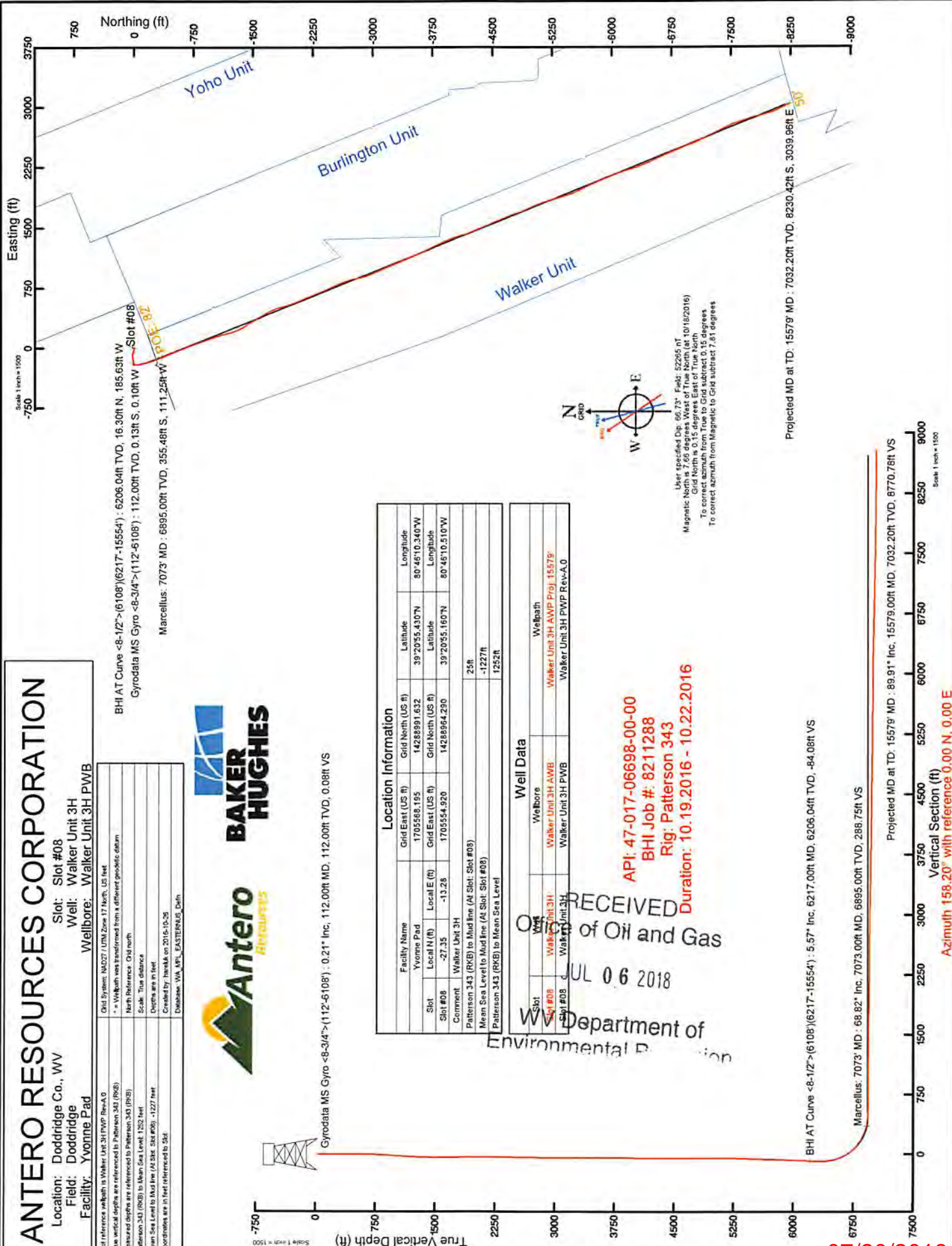


Gyrodata MS Gyro <8-1/2">(6108)(6217-15554) : 0.21" Inc, 112.00ft MD, 112.00ft TVD, 0.08ft VS

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Yvonne Pad	1705568.195	14288991.632	80°46'10.340"W
Slot	Local N (ft)	Grid East (US ft)	Longitude
Slot #08	-27.35	1705554.920	80°46'10.510"W
Comment	Walker Unit 3H		
Patterson 343 (RKB) to Mud line (At Slot: Slot #08)		25R	
Mean Sea Level to Mud line (At Slot: Slot #08)		-1227R	
Patterson 343 (RKB) to Mean Sea Level		1252R	

Well Data	
Wellbore	Wellpath
Walker Unit 3H	Walker Unit 3H AWP Proj. 15579
Walker Unit 3H PWB	Walker Unit 3H PWP Rev-A-0

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 Department of Environmental Protection
 Office of Oil and Gas
 JUL 06 2018
 API: 47-017-06698-00-00
 BHI Job #: 8211288
 Rig: Patterson 343
 Duration: 10.19.2016 - 10.22.2016



07/20/2018



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Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Hareluk
Scale	0.999605	Report Generated	10/26/2016 at 4:31:23 PM
Convergence at slot	0.15° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Walker_Unit_3H_AWP_Proj_15579_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-27.35	-13.28	1705554.92	14288964.29	39°20'55.160"N	80°46'10.510"W
Facility Reference Pt			1705568.20	14288991.63	39°20'55.430"N	80°46'10.340"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 343 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 343 (RKB) to Mean Sea Level	1252.00ft
Vertical Reference Pt	Patterson 343 (RKB)	Patterson 343 (RKB) to Mud Line at Slot (Slot #08)	25.00ft
MD Reference Pt	Patterson 343 (RKB)		
Field Vertical Reference	Mean Sea Level		

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Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION				Slot	Slot #08
Operator	ANTERO RESOURCES CORPORATION			Well	Walker Unit 3H
Area	Doddridge Co., WV			Wellbore	Walker Unit 3H AWB
Field	Doddridge				
Facility	Yvonne Pad				

WELLPATH DATA (181 stations) † = interpolated/extrapolated station															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [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	217.780	0.00	0.00	0.00	1705554.92	14288964.29	39°20'55.160"N	80°46'10.510"W	0.00	0.000	0.00	0.00	0.00	0.00
25.00	0.00	217.780	25.00	0.00	0.00	1705554.92	14288964.29	39°20'55.160"N	80°46'10.510"W	0.00	0.000	0.00	0.00	0.00	0.00
112.00	0.210	217.780	112.00	-0.13	-0.10	1705554.82	14288964.16	39°20'55.159"N	80°46'10.511"W	0.16	217.780	0.24	0.24	0.24	-163.47 Gyrodatta MS Gyro <8-3/4"> (112'-6108)
212.00	0.290	155.370	212.00	-0.50	-0.10	1705554.82	14288963.79	39°20'55.155"N	80°46'10.511"W	0.51	191.782	0.27	0.08	0.08	-62.41
312.00	0.380	111.890	312.00	-0.85	0.31	1705555.23	14288963.44	39°20'55.152"N	80°46'10.506"W	0.81	160.139	0.26	0.09	0.09	-43.48
412.00	0.340	107.320	412.00	-1.07	0.90	1705555.82	14288963.22	39°20'55.149"N	80°46'10.499"W	1.40	139.852	0.05	-0.04	-0.04	-4.57
512.00	0.110	66.890	511.99	-1.12	1.27	1705556.19	14288963.17	39°20'55.149"N	80°46'10.494"W	1.69	131.311	0.27	-0.23	-0.23	-40.43
612.00	0.200	16.950	611.99	-0.91	1.41	1705556.33	14288963.38	39°20'55.151"N	80°46'10.492"W	1.68	122.905	0.15	0.08	0.08	-49.94
712.00	1.560	300.420	711.98	-0.06	0.29	1705555.21	14288964.23	39°20'55.159"N	80°46'10.506"W	0.29	101.095	1.53	1.36	1.36	-76.53
812.00	4.120	293.560	811.85	2.07	-4.18	1705550.74	14288966.36	39°20'55.181"N	80°46'10.563"W	4.66	296.335	2.58	2.56	2.56	-6.86
912.00	6.210	290.370	911.44	5.39	-12.54	1705542.38	14288969.68	39°20'55.214"N	80°46'10.669"W	13.65	293.244	2.11	2.09	2.09	-3.19
1012.00	6.300	289.040	1010.84	9.06	-22.80	1705532.13	14288973.35	39°20'55.250"N	80°46'10.800"W	24.54	291.671	0.17	0.08	0.08	-1.33
1112.00	6.210	282.150	1110.25	11.99	-33.28	1705521.66	14288976.27	39°20'55.279"N	80°46'10.933"W	35.37	289.814	0.76	-0.09	-0.09	-6.89
1212.00	4.560	281.590	1209.81	13.93	-42.46	1705512.48	14288978.21	39°20'55.299"N	80°46'11.050"W	44.68	288.159	1.65	-1.65	-1.65	-0.56
1312.00	2.850	287.860	1309.59	15.49	-48.72	1705506.22	14288979.77	39°20'55.314"N	80°46'11.130"W	51.12	287.635	1.75	-1.71	-1.71	6.27
1412.00	2.380	290.200	1409.49	16.97	-53.03	1705501.91	14288981.25	39°20'55.329"N	80°46'11.184"W	55.68	287.741	0.48	-0.47	-0.47	2.34
1512.00	2.400	286.340	1509.40	18.27	-56.99	1705497.95	14288982.56	39°20'55.342"N	80°46'11.235"W	59.85	287.777	0.16	0.02	0.02	-3.86
1612.00	2.560	247.560	1609.31	18.01	-61.06	1705493.88	14288982.29	39°20'55.340"N	80°46'11.287"W	63.67	286.432	1.65	0.16	0.16	-38.78
1712.00	2.380	203.490	1709.23	15.25	-63.96	1705490.99	14288979.54	39°20'55.312"N	80°46'11.324"W	65.75	283.413	1.86	-0.18	-0.18	-44.07
1812.00	1.850	195.250	1809.16	11.79	-65.24	1705489.74	14288976.08	39°20'55.278"N	80°46'11.340"W	66.27	280.249	0.61	-0.53	-0.53	-8.24
1912.00	0.860	195.480	1909.13	9.51	-65.63	1705489.11	14288973.80	39°20'55.256"N	80°46'11.348"W	66.52	278.220	0.99	-0.98	-0.98	0.23
2012.00	0.630	60.740	2009.13	9.06	-65.66	1705489.39	14288973.93	39°20'55.251"N	80°46'11.348"W	66.18	277.865	1.38	-0.23	-0.23	-134.74
2112.00	0.990	68.040	2109.12	9.65	-64.27	1705490.67	14288973.93	39°20'55.257"N	80°46'11.328"W	64.99	278.536	0.37	0.36	0.36	7.30
2212.00	1.070	68.150	2209.10	10.32	-62.61	1705492.34	14288974.60	39°20'55.264"N	80°46'11.307"W	63.45	279.359	0.08	0.08	0.08	0.11
2312.00	0.610	330.370	2309.10	11.13	-62.00	1705492.94	14288975.41	39°20'55.272"N	80°46'11.299"W	62.99	280.175	1.30	-0.46	-0.46	-97.78
2412.00	0.910	315.360	2409.09	12.16	-62.82	1705492.12	14288976.44	39°20'55.283"N	80°46'11.309"W	63.99	280.951	0.36	0.30	0.30	-15.01
2512.00	0.940	314.300	2509.07	10.29	-63.97	1705490.98	14288977.58	39°20'55.293"N	80°46'11.324"W	65.34	281.740	0.03	0.03	0.03	-1.06
2612.00	1.030	310.340	2609.06	13.45	-65.24	1705489.71	14288978.73	39°20'55.304"N	80°46'11.340"W	66.82	282.487	0.11	0.08	0.08	-3.96
2712.00	1.130	309.160	2709.04	15.65	-66.69	1705488.26	14288979.94	39°20'55.316"N	80°46'11.358"W	68.50	283.209	0.10	0.10	0.10	-1.18
2812.00	1.110	305.290	2809.02	16.84	-68.25	1705486.70	14288981.12	39°20'55.328"N	80°46'11.378"W	70.29	283.897	0.08	-0.02	-0.02	-3.87



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Operator	ANTERO RESOURCES CORPORATION
Area	Doddrige Co., WV
Field	Doddrige
Facility	Yvonne Pad
Slot	Slot #08
Well	Walker Unit 3H
Wellbore	Walker Unit 3H AWP

WELLPATH DATA (181 stations)

MD	Inclination	Azimuth	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
2912.00	0.500	253.030	2909.01	17.27	-69.45	1705485.49	1428881.55	39°20'55.332"N	80°46'11.393"W	71.57	283.962	0.90	-0.61	-52.26	
3012.00	0.510	252.810	3009.01	17.01	-70.30	1705484.65	1428891.29	39°20'55.330"N	80°46'11.404"W	72.32	283.602	0.01	0.01	-0.22	
3112.00	0.730	60.070	3109.01	17.19	-70.17	1705484.78	1428891.48	39°20'55.332"N	80°46'11.403"W	72.25	283.769	1.23	0.22	167.26	
3212.00	0.810	3209.00	17.86	-69.00	1705485.95	1428892.14	39°20'55.338"N	80°46'11.388"W	71.27	284.511	0.08	0.08	0.08	0.62	
3312.00	0.710	63.170	3308.99	18.48	-67.83	1705487.12	1428892.77	39°20'55.344"N	80°46'11.373"W	70.30	285.243	0.11	-0.10	2.48	
3412.00	0.680	60.220	3408.98	19.06	-66.76	1705488.18	1428893.34	39°20'55.350"N	80°46'11.359"W	69.43	285.932	0.05	-0.03	-2.95	
3512.00	0.660	53.770	3508.97	19.69	-65.78	1705489.16	1428893.98	39°20'55.356"N	80°46'11.347"W	68.67	286.666	0.08	-0.02	-6.45	
3612.00	0.620	48.240	3608.97	20.39	-64.92	1705490.03	1428894.68	39°20'55.363"N	80°46'11.335"W	68.04	287.441	0.07	-0.04	-5.53	
3712.00	0.570	31.610	3708.96	21.18	-64.25	1705490.69	1428895.46	39°20'55.371"N	80°46'11.327"W	67.65	288.243	0.18	-0.05	-16.63	
3812.00	0.550	11.440	3808.96	22.07	-63.90	1705491.05	1428896.35	39°20'55.380"N	80°46'11.323"W	67.60	289.057	0.20	-0.02	-20.17	
3912.00	0.590	355.700	3908.95	23.06	-63.84	1705491.11	1428897.34	39°20'55.389"N	80°46'11.322"W	67.88	289.858	0.16	0.04	-15.74	
4012.00	0.890	267.990	4008.95	23.54	-64.65	1705490.29	1428897.82	39°20'55.394"N	80°46'11.322"W	68.81	290.008	1.05	0.30	-87.71	
4112.00	0.920	266.630	4108.94	23.47	-66.23	1705488.71	1428897.75	39°20'55.394"N	80°46'11.352"W	70.27	289.511	0.04	0.03	-1.36	
4212.00	0.550	296.390	4308.92	23.78	-68.41	1705486.54	1428898.06	39°20'55.397"N	80°46'11.380"W	72.43	289.170	0.17	0.00	17.46	
4312.00	0.550	4208.93	23.50	-67.51	1705487.44	1428897.78	39°20'55.394"N	80°46'11.368"W	71.48	289.190	0.40	-0.37	12.30		
4412.00	0.590	266.180	4408.92	24.22	-69.30	1705485.64	1428898.50	39°20'55.401"N	80°46'11.391"W	73.41	289.266	0.04	0.04	-0.21	
4512.00	0.580	295.800	4508.91	24.67	-70.22	1705484.73	1428898.95	39°20'55.406"N	80°46'11.403"W	74.43	289.358	0.01	-0.01	-0.38	
4612.00	0.470	176.950	4708.90	23.30	-71.14	1705483.81	1428897.58	39°20'55.392"N	80°46'11.415"W	74.86	288.137	0.36	-0.26	-25.24	
4712.00	0.730	202.200	4608.91	24.30	-70.92	1705484.03	1428898.58	39°20'55.402"N	80°46'11.412"W	74.97	288.915	0.96	0.15	-93.60	
4812.00	0.290	140.140	4808.90	22.70	-70.95	1705484.00	1428898.98	39°20'55.386"N	80°46'11.412"W	74.49	287.740	0.29	-0.18	-36.86	
4912.00	0.380	80.900	4908.90	22.56	-70.46	1705484.49	1428898.84	39°20'55.385"N	80°46'11.406"W	73.98	287.751	0.34	0.09	-59.16	
5012.00	0.680	68.560	6008.89	22.83	-69.58	1705485.37	1428898.71	39°20'55.387"N	80°46'11.395"W	73.23	288.162	0.32	0.30	-12.38	
5112.00	1.260	66.130	5108.88	23.49	-69.92	1705486.92	1428898.77	39°20'55.394"N	80°46'11.375"W	71.97	289.049	0.58	0.58	-2.43	
5212.00	1.200	353.400	5208.86	24.97	-71.44	1705487.80	1428898.25	39°20'55.409"N	80°46'11.364"W	71.64	290.401	1.46	-0.06	-73.03	
5312.00	4.060	283.220	5308.76	26.85	-71.71	1705484.24	1428899.13	39°20'55.427"N	80°46'11.409"W	75.64	290.794	3.81	2.86	-69.38	
5412.00	5.910	264.400	5408.39	27.16	-72.27	1705475.68	1428899.44	39°20'55.430"N	80°46'11.518"W	83.80	288.914	2.49	1.85	-19.62	
5512.00	6.960	262.030	5507.79	25.79	-90.89	1705464.56	1428899.07	39°20'55.417"N	80°46'11.660"W	94.00	285.926	1.08	1.05	-2.07	
5612.00	7.320	262.850	5606.98	24.16	-102.72	1705452.25	1428898.44	39°20'55.401"N	80°46'11.817"W	105.52	283.237	0.37	0.36	0.83	
5712.00	7.840	260.490	5706.13	22.27	-115.59	1705439.37	1428896.55	39°20'55.383"N	80°46'11.981"W	117.72	280.905	0.44	0.32	-2.37	
5812.00	8.030	265.330	5805.20	20.60	-129.11	1705425.86	1428894.89	39°20'55.367"N	80°46'12.153"W	130.74	279.067	0.77	0.39	4.84	



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWP
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [ft/100ft]	Build Rate [ft/100ft]	Turn Rate [ft/100ft]	Comments
7254.00	85.010	157.920	6929.67	-518.67	-43.27	1705511.67	14288445.82	39°20'50.035"N	80°46'11.078"W	520.48	184.769	0.65	-0.47	0.45	
7301.00	86.860	158.390	6933.00	-562.19	-25.83	1705529.10	14288402.33	39°20'49.604"N	80°46'10.857"W	562.78	182.630	4.06	3.94	1.00	
7348.00	89.290	159.390	6934.58	-606.01	-8.91	1705546.01	14288358.53	39°20'49.171"N	80°46'10.643"W	606.07	180.842	5.59	5.17	2.13	
7442.00	89.320	158.780	6935.72	-693.80	24.64	1705579.55	14288270.76	39°20'48.302"N	80°46'10.219"W	694.24	177.966	0.65	0.03	-0.65	
7536.00	89.480	160.360	6936.70	-781.88	57.45	1705612.35	14288182.72	39°20'47.431"N	80°46'09.804"W	783.99	175.797	1.69	0.17	1.68	
7630.00	90.030	160.780	6937.11	-870.53	88.72	1705643.61	14288094.11	39°20'46.554"N	80°46'09.409"W	875.04	174.181	0.74	0.59	0.45	
7725.00	89.660	159.650	6937.36	-959.92	120.88	1705675.75	14288004.75	39°20'45.669"N	80°46'09.002"W	967.50	172.823	1.25	-0.39	-1.19	
7819.00	89.780	163.020	6937.82	-1048.96	150.96	1705705.82	14287915.74	39°20'44.789"N	80°46'08.623"W	1059.77	171.811	3.59	0.13	3.59	
7913.00	89.910	166.450	6938.08	-1139.63	175.70	1705730.55	14287825.11	39°20'43.892"N	80°46'08.310"W	1153.10	171.235	3.65	0.14	3.65	
8008.00	89.600	161.390	6938.48	-1230.88	202.01	1705756.85	14287733.89	39°20'42.989"N	80°46'07.979"W	1247.35	170.680	5.34	-0.33	-5.33	
8102.00	89.600	154.560	6939.14	-1317.97	237.24	1705792.06	14287646.84	39°20'42.128"N	80°46'07.533"W	1339.15	169.796	7.27	0.00	-7.27	
8195.00	89.510	147.770	6939.86	-1399.39	282.06	1705836.87	14287565.46	39°20'41.322"N	80°46'06.965"W	1427.53	168.604	7.30	-0.10	-7.30	
8290.00	89.510	149.540	6940.68	-1480.52	331.47	1705886.26	14287484.36	39°20'40.519"N	80°46'06.339"W	1517.17	167.380	1.86	0.00	1.86	
8384.00	89.540	149.070	6941.46	-1561.35	379.46	1705934.23	14287403.56	39°20'39.719"N	80°46'05.731"W	1606.79	166.340	0.50	0.03	-0.50	
8479.00	89.260	150.440	6942.45	-1643.41	427.30	1705982.05	14287321.54	39°20'38.906"N	80°46'05.124"W	1698.05	165.425	1.47	-0.29	1.44	
8573.00	88.250	153.720	6944.49	-1726.43	471.30	1706026.04	14287238.54	39°20'38.085"N	80°46'04.567"W	1789.61	164.731	3.65	-1.07	3.49	
8668.00	89.600	164.730	6946.28	-1815.10	504.94	1706059.66	14287149.91	39°20'37.207"N	80°46'04.142"W	1884.03	164.454	11.67	1.42	11.59	
8762.00	89.570	164.000	6946.96	-1905.62	530.27	1706084.98	14287059.42	39°20'36.312"N	80°46'03.822"W	1978.03	164.450	0.78	-0.03	-0.78	
8857.00	89.480	161.070	6947.75	-1996.23	558.78	1706113.48	14286968.85	39°20'35.416"N	80°46'03.462"W	2072.96	164.362	3.09	-0.09	-3.08	
8951.00	89.630	155.630	6948.48	-2083.56	593.44	1706148.13	14286881.55	39°20'34.552"N	80°46'03.024"W	2166.43	164.102	5.79	0.16	-5.79	
9045.00	89.750	158.460	6948.99	-2170.11	630.10	1706184.77	14286795.04	39°20'33.696"N	80°46'02.560"W	2259.73	163.809	3.01	0.13	3.01	
9140.00	90.580	157.140	6948.72	-2258.06	665.99	1706220.65	14286707.12	39°20'32.825"N	80°46'02.106"W	2354.23	163.567	1.64	0.87	-1.39	
9234.00	89.450	157.360	6948.69	-2344.75	702.35	1706256.99	14286620.47	39°20'31.968"N	80°46'01.647"W	2447.68	163.325	1.22	-1.20	0.23	
9328.00	89.480	156.060	6949.57	-2431.08	738.51	1706294.14	14286534.17	39°20'31.113"N	80°46'01.176"W	2541.07	163.081	1.38	0.03	-1.38	
9423.00	88.800	155.890	6950.99	-2517.84	774.38	1706332.79	14286447.45	39°20'30.255"N	80°46'00.687"W	2635.36	162.825	0.74	-0.72	-0.18	
9517.00	88.950	157.080	6952.84	-2604.02	811.68	1706370.28	14286361.30	39°20'29.402"N	80°46'00.213"W	2728.78	162.607	1.28	0.16	1.27	
9612.00	89.080	162.850	6954.47	-2693.22	848.21	1706402.79	14286272.14	39°20'28.520"N	80°45'59.802"W	2823.63	162.519	6.07	0.14	6.07	
9706.00	89.050	168.740	6956.01	-2784.29	871.26	1706425.83	14286181.10	39°20'27.619"N	80°45'59.511"W	2917.43	162.624	6.27	-0.03	6.27	
9800.00	89.110	164.700	6957.52	-2875.75	892.85	1706447.41	14286089.68	39°20'26.715"N	80°45'59.239"W	3011.16	162.752	4.30	0.06	-4.30	
9895.00	89.450	157.670	6958.71	-2965.61	923.46	1706478.02	14285999.86	39°20'25.826"N	80°45'58.853"W	3106.06	162.704	7.41	0.36	-7.40	



Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #08
Area	Doddridge Co., WV		Walker Unit 3H
Field	Doddridge		Walker Unit 3H AWP
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [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
9989.00	88.950	156.310	6960.03	-3052.12	960.20	1706514.74	14285913.38	39°20'24.970"N	80°45'58.388"W	3199.60	162.536	1.54	-0.53	-1.45	
10083.00	89.080	156.510	6961.64	-3138.25	997.81	1706552.34	14285827.29	39°20'24.117"N	80°45'57.912"W	3293.06	162.362	0.25	0.14	0.21	
10178.00	89.020	157.340	6963.22	-3225.64	1035.04	1706589.55	14285739.93	39°20'23.253"N	80°45'57.441"W	3387.63	162.210	0.88	-0.06	0.87	
10272.00	89.350	157.170	6964.56	-3312.32	1071.38	1706625.88	14285653.29	39°20'22.395"N	80°45'56.981"W	3481.28	162.076	0.39	0.35	-0.18	
10366.00	89.350	156.900	6965.62	-3398.86	1108.06	1706662.54	14285566.78	39°20'21.539"N	80°45'56.517"W	3574.92	161.944	0.29	0.00	-0.29	
10460.00	89.350	157.230	6966.69	-3485.43	1144.68	1706699.15	14285480.25	39°20'20.682"N	80°45'56.054"W	3668.58	161.819	0.35	0.00	0.35	
10555.00	89.350	157.100	6967.77	-3572.97	1181.55	1706736.00	14285392.73	39°20'19.816"N	80°45'55.588"W	3763.27	161.701	0.14	0.00	-0.14	
10649.00	89.480	154.610	6968.73	-3658.74	1219.99	1706774.43	14285307.00	39°20'18.967"N	80°45'55.101"W	3856.78	161.559	2.65	0.14	-2.65	
10743.00	88.860	153.340	6970.09	-3743.20	1261.23	1706815.65	14285222.58	39°20'18.132"N	80°45'54.579"W	3949.97	161.379	1.50	-0.66	-1.35	
10838.00	89.290	157.130	6971.62	-3829.43	1301.02	1706855.42	14285136.38	39°20'17.278"N	80°45'54.076"W	4044.40	161.235	4.01	0.45	3.95	
10932.00	89.290	154.340	6972.79	-3915.11	1339.64	1706894.03	14285050.73	39°20'16.430"N	80°45'53.587"W	4137.96	161.111	2.97	0.00	-2.97	
11026.00	89.450	160.320	6973.82	-4001.81	1375.85	1706930.22	14284964.07	39°20'15.573"N	80°45'53.129"W	4231.72	161.027	6.36	0.17	6.36	
11120.00	89.230	167.370	6974.91	-4092.03	1401.99	1706966.35	14284873.88	39°20'14.680"N	80°45'52.799"W	4325.54	161.088	7.50	-0.23	7.50	
11215.00	89.420	158.590	6976.03	-4182.78	1429.76	1706984.12	14284783.18	39°20'13.783"N	80°45'52.449"W	4420.39	161.128	9.24	0.20	-9.24	
11309.00	89.350	157.390	6977.04	-4269.02	1464.99	1707019.33	14284696.07	39°20'12.921"N	80°45'52.004"W	4514.24	161.063	1.28	-0.07	-1.28	
11403.00	89.450	157.780	6978.02	-4356.81	1500.83	1707055.16	14284609.21	39°20'12.061"N	80°45'51.550"W	4608.07	160.992	0.43	0.11	0.41	
11498.00	89.320	156.780	6979.04	-4444.43	1537.52	1707091.83	14284521.62	39°20'11.194"N	80°45'51.086"W	4702.87	160.917	1.06	-0.14	-1.05	
11592.00	88.830	157.160	6980.56	-4530.93	1574.29	1707128.58	14284435.16	39°20'10.338"N	80°45'50.621"W	4796.64	160.840	0.66	-0.52	0.40	
11686.00	89.230	156.330	6982.15	-4617.28	1611.40	1707165.68	14284348.84	39°20'09.484"N	80°45'50.152"W	4890.39	160.761	0.98	0.43	-0.88	
11780.00	89.420	159.050	6983.26	-4704.23	1647.08	1707201.34	14284261.93	39°20'08.623"N	80°45'49.701"W	4984.24	160.703	2.90	0.20	2.89	
11875.00	89.420	161.710	6984.22	-4793.70	1678.97	1707233.22	14284172.49	39°20'07.738"N	80°45'49.298"W	5079.22	160.697	2.80	0.00	2.80	
11969.00	89.450	158.720	6985.15	-4882.14	1710.78	1707265.02	14284084.09	39°20'06.863"N	80°45'48.896"W	5173.20	160.689	3.18	0.03	-3.18	
12064.00	89.510	154.020	6986.01	-4969.14	1748.85	1707303.07	14283997.12	39°20'06.002"N	80°45'48.414"W	5267.91	160.611	4.95	0.06	-4.95	
12158.00	89.480	160.490	6986.84	-5055.78	1785.17	1707339.38	14283910.51	39°20'05.145"N	80°45'47.955"W	5361.70	160.552	6.88	-0.03	6.88	
12252.00	89.510	158.560	6987.67	-5143.84	1818.05	1707372.25	14283822.49	39°20'04.274"N	80°45'47.539"W	5455.67	160.534	2.05	0.03	-2.05	
12347.00	89.420	164.370	6988.55	-5233.87	1848.23	1707404.42	14283732.50	39°20'03.383"N	80°45'47.158"W	5550.62	160.550	6.12	-0.09	6.12	
12441.00	89.570	165.610	6989.38	-5324.66	1872.58	1707426.75	14283641.75	39°20'02.485"N	80°45'46.851"W	5644.33	160.624	1.33	0.16	1.32	
12535.00	90.400	161.120	6989.41	-5414.70	1899.48	1707453.65	14283551.74	39°20'01.595"N	80°45'46.512"W	5738.20	160.669	4.86	0.88	-4.78	
12630.00	89.570	160.280	6989.43	-5504.36	1930.88	1707485.03	14283462.12	39°20'00.708"N	80°45'46.115"W	5833.20	160.670	1.24	-0.87	-0.88	
12724.00	90.680	153.510	6989.29	-5590.77	1967.74	1707521.88	14283375.74	39°19'59.853"N	80°45'45.649"W	5926.95	160.610	7.30	1.18	-7.20	



Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #08
Area	Doddridge Co., WV		Walker Unit 3H
Field	Doddridge		Walker Unit 3H AWP
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [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
12819.00	89.350	152.730	6989.20	-5675.50	2010.69	1707564.82	14283291.04	39°19'59.014"N	80°45'45.105"W	6021.14	160.492	1.62	-1.40	-0.82	
12913.00	88.800	156.280	6990.72	-5760.32	2051.14	1707605.25	14283206.26	39°19'58.175"N	80°45'44.593"W	6114.61	160.400	3.82	-0.59	3.78	
13007.00	88.740	157.940	6992.74	-5846.90	2087.70	1707641.79	14283119.72	39°19'57.318"N	80°45'44.131"W	6208.43	160.350	1.77	-0.06	1.77	
13102.00	88.800	157.980	6994.78	-5934.93	2123.34	1707677.41	14283031.71	39°19'56.447"N	80°45'43.681"W	6303.33	160.314	0.08	0.06	0.04	
13196.00	88.740	159.100	6996.79	-6022.39	2157.72	1707711.78	14282944.29	39°19'55.582"N	80°45'43.246"W	6397.26	160.288	1.19	-0.06	1.19	
13291.00	88.740	158.820	6998.88	-6111.04	2191.82	1707745.87	14282855.68	39°19'54.705"N	80°45'42.815"W	6492.22	160.269	0.29	0.00	-0.29	
13385.00	88.920	166.070	7000.81	-6200.58	2220.14	1707774.18	14282766.17	39°19'53.819"N	80°45'42.457"W	6586.07	160.300	7.71	0.19	7.71	
13480.00	88.770	160.220	7002.72	-6291.44	2247.67	1707801.70	14282675.34	39°19'52.920"N	80°45'42.110"W	6680.89	160.340	6.16	-0.16	-6.16	
13574.00	88.800	157.610	7004.72	-6379.12	2281.48	1707835.49	14282587.70	39°19'52.053"N	80°45'41.683"W	6774.83	160.321	2.78	0.03	-2.78	
13669.00	88.680	157.680	7006.80	-6466.96	2317.60	1707871.60	14282499.90	39°19'51.184"N	80°45'41.226"W	6869.71	160.284	0.15	-0.13	0.07	
13763.00	88.710	153.550	7008.95	-6552.54	2356.39	1707910.38	14282414.36	39°19'50.337"N	80°45'40.735"W	6963.36	160.221	4.39	0.03	-4.39	
13858.00	88.740	155.300	7011.06	-6638.20	2397.39	1707951.36	14282328.72	39°19'49.489"N	80°45'40.216"W	7057.85	160.143	1.84	0.03	1.84	
13952.00	88.740	158.120	7013.13	-6724.51	2434.55	1707988.50	14282242.45	39°19'48.635"N	80°45'39.747"W	7151.65	160.098	3.00	0.00	3.00	
14046.00	88.800	157.080	7015.15	-6811.40	2470.36	1708024.30	14282155.59	39°19'47.775"N	80°45'39.294"W	7245.54	160.065	1.11	0.06	-1.11	
14141.00	88.740	157.070	7017.18	-6898.88	2507.35	1708061.28	14282068.15	39°19'46.910"N	80°45'38.826"W	7340.39	160.027	0.06	-0.06	-0.01	
14235.00	89.320	161.080	7018.78	-6986.65	2540.91	1708094.82	14281980.42	39°19'46.041"N	80°45'38.402"W	7434.34	160.015	4.31	0.62	4.27	
14329.00	89.380	155.250	7019.84	-7073.86	2575.86	1708129.76	14281893.24	39°19'45.179"N	80°45'37.960"W	7528.25	159.992	6.20	0.06	-6.20	
14424.00	89.380	154.180	7020.87	-7160.75	2616.43	1708170.31	14281807.38	39°19'44.329"N	80°45'37.447"W	7622.84	159.926	1.13	0.00	-1.13	
14518.00	89.380	154.400	7021.89	-7247.44	2657.21	1708211.07	14281722.73	39°19'43.491"N	80°45'36.931"W	7716.39	159.857	0.23	0.00	0.23	
14612.00	89.350	154.340	7022.93	-7333.19	2697.87	1708251.77	14281638.01	39°19'42.652"N	80°45'36.416"W	7809.96	159.791	0.07	-0.03	-0.06	
14706.00	89.260	153.300	7024.07	-7418.54	2739.33	1708293.17	14281553.70	39°19'41.817"N	80°45'35.891"W	7903.45	159.721	1.11	-0.10	-1.11	
14801.00	89.480	156.250	7025.12	-7503.46	2779.87	1708333.58	14281467.81	39°19'40.967"N	80°45'35.379"W	7998.08	159.662	3.11	0.23	3.11	
14896.00	89.260	163.120	7026.18	-7588.37	2813.47	1708373.26	14281376.94	39°19'40.067"N	80°45'34.954"W	8095.02	159.662	7.09	-0.23	7.08	
14990.00	89.420	160.630	7027.24	-7672.79	2842.09	1708413.58	14281289.55	39°19'39.203"N	80°45'34.593"W	8186.94	159.687	2.71	0.17	-2.71	
15085.00	89.230	164.970	7028.36	-7756.51	2870.17	1708453.95	14281198.86	39°19'38.305"N	80°45'34.238"W	8281.77	159.723	4.57	-0.20	4.57	
15180.00	89.380	164.830	7029.52	-7840.23	2894.91	1708494.69	14281107.18	39°19'37.398"N	80°45'33.926"W	8376.38	159.781	0.22	0.16	-0.15	
15274.00	89.480	164.840	7030.45	-7923.95	2919.50	1708535.26	14281016.50	39°19'36.501"N	80°45'33.617"W	8470.01	159.837	0.11	0.11	0.01	
15368.00	89.320	158.420	7031.44	-8007.11	2949.11	1708576.86	14280927.38	39°19'35.619"N	80°45'33.243"W	8563.91	159.857	6.83	-0.17	-6.83	
15462.00	89.940	154.050	7032.04	-8090.26	2986.98	1708618.42	14280841.40	39°19'34.768"N	80°45'32.764"W	8657.70	159.818	4.70	0.66	-4.65	
15554.00	89.910	152.440	7032.16	-8173.41	3028.40	1708660.11	14280759.29	39°19'33.955"N	80°45'32.240"W	8749.10	159.749	1.75	-0.03	-1.75	



Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH DATA (181 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [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
15579.00	89.910	152.440	7032.20	-8230.42	3039.96	1708593.68	14280737.13	39°19'33.735"N	80°45'32.093"W	8773.90	159.728	0.00	0.00	0.00	Projected MD at TD: 15579' MD

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Walker Unit 3H POE Rev-1	6893.00	-325.38	-117.74	1705437.22	14288639.04	39°20'51.947"N	80°46'12.019"W	point
Walker Unit 3H BHL Rev-1	6933.00	-8182.44	3025.16	1708578.88	14280785.10	39°19'34.210"N	80°45'32.280"W	point
Walker Unit 3H LP Rev-1	6933.00	-503.00	-46.69	1705508.24	14288461.49	39°20'50.190"N	80°46'11.121"W	point

WELLPATH COMPOSITION - Ref Wellbore: Walker Unit 3H AWB Ref Wellpath: Walker Unit 3H AWP Proj: 15579'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	6108.00	Gyrodatta standard - Drop gyro or Multi-shot	01_Gyrodatta MS Gyro <8-3/4">(100'-6096')	Walker Unit 3H AWB
6108.00	15554.00	BHI AutoTrak Curve (Short)	02_BHI AT Curve <8-1/2">(6108')(6217'-15554')	Walker Unit 3H AWB
15554.00	15579.00	Blind Drilling (std)	Projection to bit	Walker Unit 3H AWB

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 WV Department of
 Environmental Protection
 July 6 2016



Actual Wellpath Report

Walker Unit 3H AWP Proj: 15579'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Walker Unit 3H
Field	Doddridge	Wellbore	Walker Unit 3H AWB
Facility	Yvonne Pad		

WELLPATH COMMENTS					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment	
112.00	0.210	217.780	112.00	Gyrodatta MS Gyro <8-3/4">(112'-6108')	
6217.00	5.570	294.970	6206.04	BHI AT Curve <8-1/2">(6108')(6217'-15554')	
6715.00	34.155	166.658	6682.06	Middlesex: 6715' MD	
6901.00	54.078	162.300	6815.60	Burkett: 6901' MD	
6955.00	59.748	161.042	6845.02	Tully: 6955' MD	
7046.00	67.226	158.318	6884.82	Hamilton: 7046' MD	
7073.00	68.816	157.583	6895.00	Marcellus: 7073' MD	
15579.00	89.910	152.440	7032.20	Projected MD at TD: 15579' MD	

COMMENTS	
<p>Wellpath general comments API: 47-017-06698-00-00 BHI Job #: 8211288 Rig: Patterson 343 Duration: 10.19.2016 - 10.22.2016 Gyrodatta MS Gyro <8-3/4">(112'-6108') BHI AT Curve <8-1/2">(6108')(6217'-15554') Middlesex: 6715' MD Burkett: 6901' MD Tully: 6955' MD Hamilton: 7046' MD Marcellus: 7073' MD Projected MD at TD: 15579' MD</p>	<p>RECEIVED Office of Oil and Gas JUL 06 2018 WV Department of Environmental Protection</p>