



ANTERO RESOURCES CORPORATION

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

Slot: Slot #04
 Well: Pickney Unit 2H
 Wellbore: Pickney Unit 2H PWB



API: 47-017-06846-0000
 BH Job #: 9076705
 Rig: Frontier 32
 Duration: 03/25/18 - 03/28/18

POE Marcellus: 6659°MD / 6389°TVD : 6389.23ft TVD, 81.72ft N, 377.97ft E
 BH AT Curve <8-1/2"> (5716°)(5779°-15186°) : 5737.35ft TVD, 492.91ft N, 125.52ft E
 Directional ONE MWD <8-3/4"> (2536°)(2651°-5699°) : 2666.05ft TVD, 32.33ft N, 19.33ft E
 Directional ONE MWD <12-1/4"> (500°)(560°-2536°) : 577.00ft TVD, 0.43ft N, 1.01ft W
 Gyrodata MS Gyro <17-1/2"> (100°-500°) : 117.00ft TVD, 0.15ft N, 0.05ft W

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #04	Pickney Unit 2H	Pickney Unit 2H AWB	Pickney Unit 2H AWP Proj: 15210'
Slot #04	Pickney Unit 2H	Pickney Unit 2H PWB	Pickney Unit 2H PWP Rev-A.0

Plot reference wellpath is Pickney 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 #04): -843 feet	Created by: mccrebr on 2018-05-15
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn

Gyrodata MS Gyro <17-1/2"> (100°-500°) : 0.21° Inc, 117.00ft MD, 117.00ft TVD, -0.16ft VS
 Directional ONE MWD <12-1/4"> (500°)(560°-2536°) : 0.17° Inc, 577.00ft MD, 577.00ft TVD, -0.78ft VS

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)
Slot #04	-11.07	28.32	1695119.294	14279406.624
Comment	Pickney Unit 2H			
Frontier 32 (RKB) to Ground level (At Slot: Slot #04)				32ft
Mean Sea Level to Ground level (At Slot: Slot #04)				-843ft
Frontier 32 (RKB) to Mean Sea Level				875ft

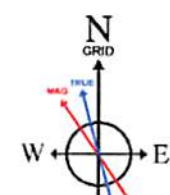
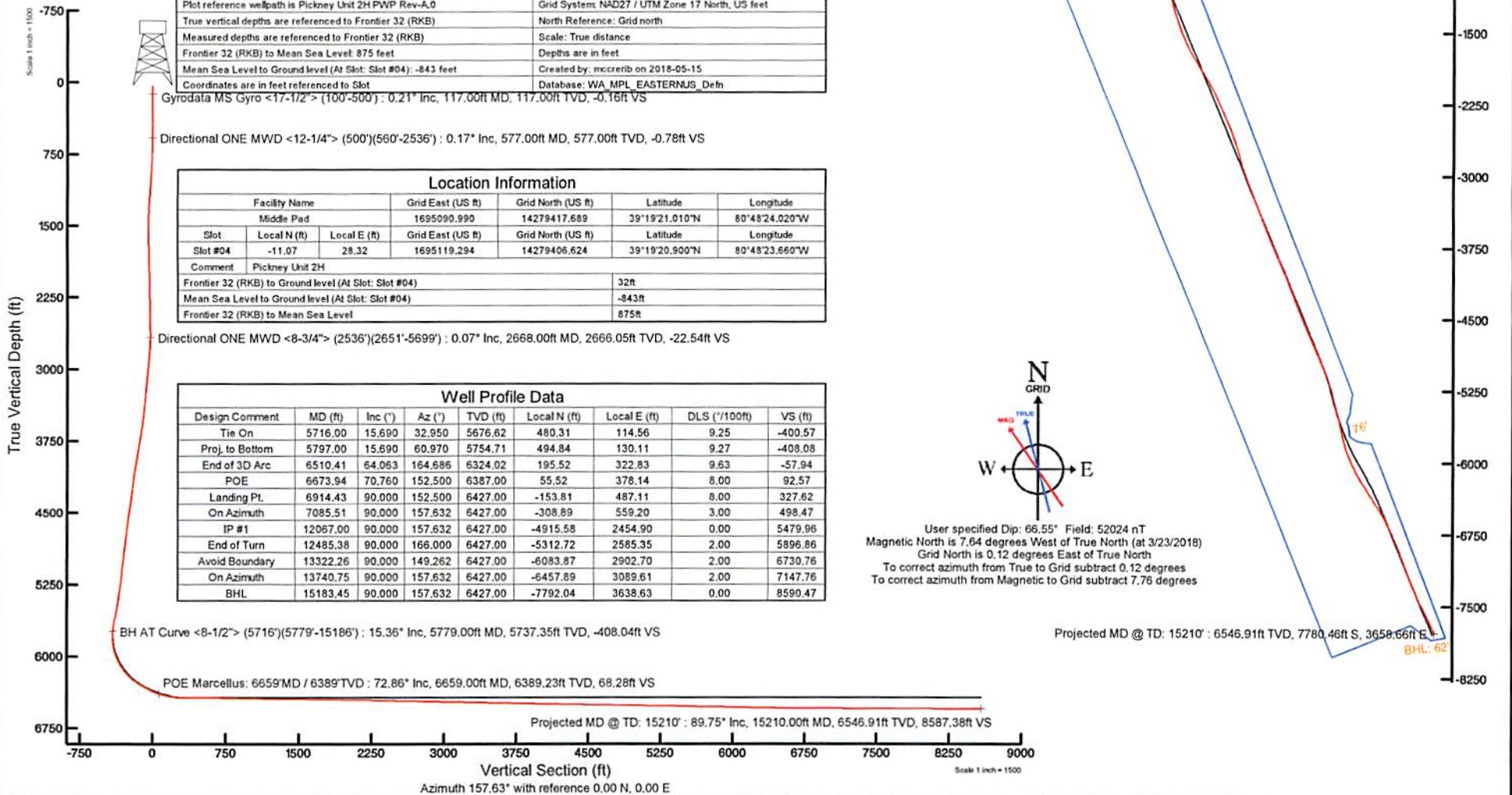
Directional ONE MWD <8-3/4"> (2536°)(2651°-5699°) : 0.07° Inc, 2668.00ft MD, 2666.05ft TVD, -22.54ft VS

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	5716.00	15.690	32.950	5676.62	-480.31	114.56	9.25	-400.57
Proj. to Bottom	5797.00	15.690	60.970	5754.71	494.84	130.11	9.27	-408.08
End of 3D Arc	6510.41	64.063	164.686	6324.02	195.52	322.83	9.63	-57.94
POE	6673.94	70.760	152.500	6387.00	55.52	378.14	8.00	92.57
Landing Pt.	6914.43	90.000	152.500	6427.00	-153.81	487.11	8.00	327.62
On Azimuth	7085.51	90.000	157.632	6427.00	-308.89	559.20	3.00	498.47
IP #1	12067.00	90.000	157.632	6427.00	-4915.58	2454.90	0.00	5479.96
End of Turn	12485.38	90.000	166.000	6427.00	-5312.72	2585.35	2.00	5896.86
Avoid Boundary	13322.26	90.000	149.262	6427.00	-6083.87	2902.70	2.00	6730.76
On Azimuth	13740.75	90.000	157.632	6427.00	-6457.89	3089.61	2.00	7147.76
BHL	15183.45	90.000	157.632	6427.00	-7792.04	3638.63	0.00	8590.47

BH AT Curve <8-1/2"> (5716°)(5779°-15186°) : 15.36° Inc, 5779.00ft MD, 5737.35ft TVD, -408.04ft VS

POE Marcellus: 6659°MD / 6389°TVD : 72.86° Inc, 6659.00ft MD, 6389.23ft TVD, 68.28ft VS

Projected MD @ TD: 15210' : 89.75° Inc, 15210.00ft MD, 6546.91ft TVD, 8587.38ft VS



User specified Dip: 66.55° Field: 52024 nT
 Magnetic North is 7.64 degrees West of True North (at 3/23/2018)
 Grid North is 0.12 degrees East of True North
 To correct azimuth from True to Grid subtract 0.12 degrees
 To correct azimuth from Magnetic to Grid subtract 7.76 degrees

Projected MD @ TD: 15210' : 6546.91ft TVD, 7780.46ft S, 3658.66ft E
 BHL: 62



Actual Wellpath Report

Pickney Unit 2H AWP Proj: 15210'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Pickney Unit 2H
Field	Doddridge	Wellbore	Pickney 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 12:33:45 PM
Convergence at slot	0.12° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Pickney_Unit_2H_AWP_Proj_15210_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-11.07	28.32	1695119.29	14279406.62	39°19'20.900"N	80°48'23.660"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 #04)	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	157.63°



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 Pickney Unit 2H AWP Proj: 15210'
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REFERENCE WELLPATH IDENTIFICATION									
Operator	ANTERO RESOURCES CORPORATION								
Area	Doddridge Co., WV								
Field	Doddridge								
Facility	Middle Pad								

WELLPATH DATA (186 stations) † = Interpolated/Extrapolated station																
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	US ft	US ft			ft	°	F/100ft	F/100ft	F/100ft	
0.00†	0.000	342.150	0.00	0.00	0.00	0.00	1695119.29	14279406.62	39°19'20.900"N	80°48'23.660"W	0.00	0.000	0.00	0.00	0.00	
32.00	0.000	342.150	32.00	0.00	0.00	0.00	1695119.29	14279406.62	39°19'20.900"N	80°48'23.660"W	0.00	0.000	0.00	0.00	0.00	
117.00	0.210	342.150	117.00	-0.16	0.15	-0.05	1695119.25	14279406.77	39°19'20.901"N	80°48'23.661"W	0.16	342.150	0.25	0.25	-21.00	Gyrodata MS Gyro <17.112> (100-500)
217.00	0.200	284.920	217.00	-0.44	0.37	-0.27	1695119.02	14279406.99	39°19'20.904"N	80°48'23.663"W	0.46	323.447	0.20	-0.01	-57.23	
317.00	0.100	219.880	317.00	-0.51	0.35	-0.50	1695118.80	14279406.97	39°19'20.903"N	80°48'23.666"W	0.61	304.806	0.18	-0.10	-65.04	
417.00	0.090	284.550	417.00	-0.49	0.27	-0.63	1695118.66	14279406.90	39°19'20.903"N	80°48'23.668"W	0.69	293.247	0.07	-0.01	-44.67	
517.00	0.230	283.310	517.00	-0.63	0.31	-0.90	1695118.39	14279406.97	39°19'20.904"N	80°48'23.673"W	0.96	288.909	0.15	0.14	18.76	
617.00	0.170	10.970	577.00	-0.78	0.43	-1.01	1695118.29	14279407.05	39°19'20.904"N	80°48'23.673"W	1.09	292.924	0.47	-0.10	146.10	Directional ONE MWD <12-14> (500)(560-2536)
667.00	1.270	29.450	666.99	-1.50	1.42	-0.49	1695118.80	14279408.05	39°19'20.914"N	80°48'23.666"W	1.51	341.046	1.23	1.22	20.53	
758.00	3.320	23.490	757.91	-3.96	4.72	1.06	1695120.35	14279411.34	39°19'20.947"N	80°48'23.646"W	4.84	12.623	2.26	2.26	-6.55	
847.00	4.060	23.090	846.73	-7.97	9.98	3.32	1695122.61	14279416.60	39°19'20.999"N	80°48'23.562"W	10.52	18.397	0.83	0.83	-0.45	
937.00	4.620	24.610	936.47	-12.67	16.21	6.08	1695125.37	14279422.83	39°19'21.060"N	80°48'23.562"W	17.31	20.559	0.64	0.62	-0.43	
1026.00	4.760	24.230	1025.17	-17.66	22.83	9.09	1695128.38	14279429.45	39°19'21.125"N	80°48'23.544"W	24.58	21.700	0.16	0.16	-0.43	
1114.00	4.750	21.200	1112.87	-22.81	29.56	11.90	1695131.19	14279436.17	39°19'21.182"N	80°48'23.508"W	31.87	21.933	0.29	-0.01	-3.44	
1202.00	4.070	11.570	1200.61	-28.04	36.02	13.85	1695133.14	14279442.63	39°19'21.256"N	80°48'23.483"W	38.59	21.030	1.14	-0.77	-10.94	
1290.00	3.550	7.070	1288.41	-33.00	41.78	14.81	1695134.10	14279448.39	39°19'21.313"N	80°48'23.470"W	44.33	19.516	0.68	-0.56	-5.11	
1378.00	2.660	4.890	1376.28	-37.19	46.52	15.32	1695134.61	14279453.12	39°19'21.359"N	80°48'23.464"W	48.98	18.226	1.02	-1.01	-2.48	
1466.00	1.030	345.350	1464.24	-39.79	49.32	15.29	1695134.58	14279455.92	39°19'21.387"N	80°48'23.464"W	51.64	17.227	1.96	-1.85	-22.20	
1554.00	0.800	216.830	1552.23	-40.26	49.59	14.72	1695134.01	14279456.20	39°19'21.390"N	80°48'23.471"W	51.73	16.536	1.88	-0.26	-146.05	
1642.00	1.520	182.570	1640.21	-38.99	47.96	14.10	1695133.39	14279454.57	39°19'21.374"N	80°48'23.479"W	49.99	16.384	0.97	0.82	-27.57	
1730.00	1.080	185.770	1728.19	-37.30	46.00	13.76	1695133.05	14279452.60	39°19'21.354"N	80°48'23.484"W	48.01	16.659	0.53	-0.50	-7.73	
1819.00	1.090	181.190	1817.17	-36.78	44.32	13.71	1695132.99	14279450.92	39°19'21.338"N	80°48'23.484"W	46.37	17.134	0.10	0.01	-5.15	
1907.00	1.100	175.840	1905.18	-34.21	42.64	13.71	1695132.95	14279449.24	39°19'21.321"N	80°48'23.481"W	44.79	17.821	0.12	0.01	-6.08	
1995.00	1.160	166.940	1993.14	-32.53	40.93	13.97	1695133.26	14279447.53	39°19'21.304"N	80°48'23.481"W	43.25	18.845	0.21	0.07	-10.11	
2083.00	1.070	161.470	2081.12	-30.83	39.28	14.43	1695133.52	14279445.89	39°19'21.288"N	80°48'23.475"W	41.85	20.173	0.16	-0.10	-6.22	
2172.00	1.100	153.400	2170.11	-29.15	37.73	15.08	1695134.57	14279444.34	39°19'21.273"N	80°48'23.467"W	40.63	21.784	0.17	0.03	-9.07	
2260.00	1.100	145.420	2258.09	-27.48	36.28	15.94	1695135.22	14279442.89	39°19'21.258"N	80°48'23.456"W	39.62	23.714	0.17	0.00	-9.07	
2348.00	1.140	142.860	2346.07	-25.81	34.88	16.94	1695136.23	14279441.49	39°19'21.244"N	80°48'23.443"W	38.78	25.906	0.07	0.05	-2.91	
2436.00	0.850	130.430	2434.06	-24.38	33.76	17.97	1695137.26	14279440.37	39°19'21.233"N	80°48'23.430"W	38.25	28.022	0.41	-0.33	-14.13	
2524.00	0.640	139.700	2522.05	-23.34	32.96	18.78	1695138.07	14279439.58	39°19'21.225"N	80°48'23.420"W	37.94	29.674	0.27	-0.24	10.53	



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

WELLPATH DATA (186 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	US ft	US ft			ft	°	F/100ft	F/100ft	°/100ft	
2653.00	0.590	140.880	2551.05	-23.04	32.73	18.98	1695138.27	14279439.34	39°19'21.223"N	80°48'23.418"W	37.83	30.116	0.18	-0.17	4.07	
2668.00	0.073	337.460	2666.05	-22.54	32.33	19.33	1695138.62	14279438.94	39°19'21.219"N	80°48'23.398"W	37.67	30.873	0.57	-0.45	-142.10	Directional ONE MWD <8-3/4"> (2536)/(2651'-5699')
2756.00	4.050	23.020	2753.98	-24.78	35.24	20.52	1695139.81	14279441.85	39°19'21.248"N	80°48'23.398"W	40.78	30.215	4.55	4.52	51.77	
2844.00	7.700	28.150	2841.50	-30.71	43.30	24.52	1695143.81	14279449.91	39°19'21.327"N	80°48'23.347"W	49.76	29.522	4.19	4.15	5.83	
2933.00	7.700	22.860	2929.70	-38.55	53.97	29.84	1695149.12	14279460.57	39°19'21.433"N	80°48'23.279"W	61.67	28.939	0.50	0.00	-3.70	
3021.00	7.240	22.240	3016.95	-46.50	64.45	34.42	1695153.70	14279471.05	39°19'21.536"N	80°48'23.220"W	73.07	28.103	0.65	-0.52	-2.98	
3109.00	7.260	16.010	3104.25	-54.81	74.93	38.05	1695157.33	14279481.52	39°19'21.640"N	80°48'23.174"W	84.04	26.923	0.89	0.02	-7.08	
3198.00	6.650	10.350	3192.59	-63.55	85.40	40.53	1695159.81	14279491.99	39°19'21.743"N	80°48'23.142"W	94.53	25.386	1.03	-0.69	-6.36	
3286.00	5.900	6.990	3280.07	-71.78	94.91	41.99	1695161.27	14279501.49	39°19'21.837"N	80°48'23.123"W	103.78	23.868	0.95	-0.85	-3.82	
3374.00	6.470	19.930	3367.56	-79.39	104.06	44.23	1695163.51	14279510.64	39°19'21.928"N	80°48'23.094"W	113.07	23.030	1.71	0.65	14.70	
3462.00	8.100	20.830	3454.85	-87.58	114.51	48.13	1695167.40	14279521.09	39°19'22.031"N	80°48'22.998"W	124.22	22.797	1.86	1.85	1.02	
3550.00	9.900	10.720	3541.76	-98.44	127.74	51.74	1695171.02	14279534.32	39°19'22.161"N	80°48'22.966"W	137.82	22.050	2.72	2.05	-11.48	
3639.00	9.740	8.070	3629.46	-111.34	142.71	54.22	1695173.49	14279549.28	39°19'22.309"N	80°48'22.944"W	152.67	20.803	0.54	-0.18	-2.98	
3727.00	10.240	5.130	3716.13	-124.69	157.87	55.97	1695175.24	14279564.44	39°19'22.459"N	80°48'22.933"W	167.50	19.519	0.81	0.57	-3.34	
3815.00	9.900	0.710	3802.77	-138.59	173.23	56.76	1695176.03	14279579.79	39°19'22.611"N	80°48'22.933"W	182.29	18.142	0.96	-0.39	-5.02	
3904.00	9.620	356.960	3890.48	-152.65	188.31	56.46	1695175.73	14279594.86	39°19'22.760"N	80°48'22.936"W	196.59	16.690	0.78	-0.31	-4.21	
3993.00	10.250	5.180	3978.15	-166.69	203.62	56.78	1695176.05	14279610.16	39°19'22.911"N	80°48'22.932"W	211.39	15.981	1.74	0.33	9.24	
4081.00	10.400	3.810	4064.73	-180.76	219.34	58.02	1695177.29	14279625.88	39°19'23.067"N	80°48'22.916"W	226.89	14.815	0.17	-1.56	-1.56	
4169.00	9.280	11.150	4151.44	-193.79	234.22	59.91	1695179.18	14279640.75	39°19'23.214"N	80°48'22.891"W	241.76	14.349	1.92	-1.30	8.34	
4258.00	8.600	19.830	4238.36	-204.69	247.50	63.55	1695182.82	14279654.03	39°19'23.345"N	80°48'22.845"W	255.53	14.401	1.68	-0.74	9.75	
4346.00	8.760	15.330	4328.36	-214.86	260.15	67.56	1695186.83	14279666.67	39°19'23.470"N	80°48'22.793"W	268.78	14.557	0.79	0.18	-5.11	
4434.00	9.190	10.740	4413.28	-226.05	273.52	70.64	1695189.91	14279680.04	39°19'23.602"N	80°48'22.754"W	282.50	14.481	0.95	0.48	-5.22	
4523.00	9.410	6.920	4401.11	-238.35	287.73	72.84	1695192.11	14279694.24	39°19'23.742"N	80°48'22.725"W	296.80	14.206	0.74	0.25	-4.28	
4611.00	9.280	15.410	4587.95	-250.23	301.71	75.59	1695194.86	14279708.21	39°19'23.880"N	80°48'22.690"W	311.03	14.066	1.57	-0.15	9.65	
4699.00	10.500	12.950	4674.64	-262.39	316.36	79.28	1695198.54	14279722.86	39°19'24.025"N	80°48'22.643"W	326.15	14.068	2.39	1.38	-2.80	
4788.00	8.460	16.560	4762.42	-274.10	330.54	82.96	1695202.22	14279737.04	39°19'24.165"N	80°48'22.595"W	340.80	14.089	1.47	-2.28	4.06	
4876.00	7.740	12.110	4849.54	-284.02	342.54	86.05	1695205.31	14279748.03	39°19'24.284"N	80°48'22.556"W	353.19	14.101	1.08	-0.82	-5.06	
4964.00	6.410	356.340	4938.87	-293.47	353.25	87.23	1695206.49	14279759.73	39°19'24.393"N	80°48'22.540"W	363.86	13.871	2.33	-1.51	-14.51	
5053.00	7.140	358.920	5025.25	-303.24	363.75	87.07	1695207.33	14279770.23	39°19'24.490"N	80°48'22.542"W	374.02	13.462	0.82	0.82	-0.47	
5141.00	7.680	11.090	5112.52	-313.24	374.99	88.10	1695207.36	14279781.46	39°19'24.604"N	80°48'22.529"W	385.20	13.221	1.88	0.61	13.83	



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 WV Department of
 Environmental Protection



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

WELLPATH DATA (186 stations)		t = Interpolated/extrapolated station														
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)	(US ft)	(US ft)	(°)	(°)	(ft)	(°)	(ft/100ft)	(ft/100ft)	(°/100ft)	
5229.00	8.460	8.610	5199.65	-323.69	387.16	90.20	1695209.46	14279/93.63	39°19'24.725"N	80°48'22.502"W	397.53	13.115	0.97	0.86	-2.82	
5318.00	9.790	15.940	5287.53	-335.24	400.91	93.26	1695212.52	14279807.37	39°19'24.860"N	80°48'22.462"W	411.61	13.095	1.98	1.49	8.24	
5406.00	10.230	19.930	5374.19	-346.90	415.45	97.98	1695217.23	14279821.91	39°19'25.004"N	80°48'22.402"W	426.85	13.270	0.93	0.50	4.53	
5495.00	10.910	12.700	5461.68	-359.63	431.10	102.52	1695221.78	14279837.55	39°19'25.159"N	80°48'22.344"W	443.12	13.378	1.67	0.76	-8.12	
5583.00	12.700	4.930	5547.82	-375.05	448.86	105.19	1695224.44	14279855.31	39°19'25.334"N	80°48'22.309"W	461.02	13.189	2.72	2.03	-8.83	
5671.00	15.250	17.380	5633.23	-392.55	469.55	109.48	1695228.73	14279875.99	39°19'25.539"N	80°48'22.254"W	482.14	13.124	4.46	2.90	14.15	
5716.00	15.650	32.950	5676.62	-400.57	480.31	114.56	1695233.80	14279886.74	39°19'25.645"N	80°48'22.189"W	493.78	13.415	9.25	0.98	34.60	
5779.00	15.360	49.290	5737.35	-408.04	492.91	125.52	1695238.90	14279898.33	39°19'25.769"N	80°48'22.049"W	508.54	14.287	6.94	-0.52	25.94	BH AT Curve <-8.12°> (5716)/5779-15186)
5795.00	15.000	54.040	5752.79	-409.19	495.50	128.80	1695248.04	14279901.93	39°19'25.795"N	80°48'22.008"W	511.97	14.571	8.09	-2.25	29.69	
5843.00	13.270	73.590	5799.36	-410.08	500.71	139.12	1695255.36	14279907.14	39°19'25.846"N	80°48'21.876"W	519.68	15.528	10.52	-3.66	40.73	
5890.00	12.960	93.510	5845.16	-407.22	501.91	149.56	1695268.80	14279908.34	39°19'25.858"N	80°48'21.743"W	523.72	16.593	9.59	-0.66	42.38	
5938.00	14.280	112.320	5891.83	-400.70	499.33	160.42	1695279.65	14279905.76	39°19'25.832"N	80°48'21.605"W	524.47	17.810	9.58	2.75	39.19	
5986.00	17.320	125.820	5937.07	-390.68	493.03	171.46	1695290.68	14279899.46	39°19'25.769"N	80°48'21.465"W	522.00	19.176	10.11	6.47	28.72	
6033.00	20.270	136.180	5982.51	-376.86	482.85	183.01	1695302.23	14279889.28	39°19'25.668"N	80°48'21.318"W	516.37	20.758	9.26	6.15	21.58	
6080.00	24.370	143.700	6026.99	-359.86	469.15	194.40	1695313.61	14279875.59	39°19'25.533"N	80°48'21.174"W	507.83	22.507	10.62	8.72	16.00	
6128.00	28.810	145.090	6068.90	-338.95	451.68	206.89	1695326.10	14279868.12	39°19'25.360"N	80°48'21.015"W	496.80	24.610	9.34	9.25	2.90	
6175.00	33.240	145.030	6109.17	-315.31	431.82	220.76	1695339.96	14279838.28	39°19'25.163"N	80°48'20.839"W	484.98	27.077	9.43	9.43	-0.13	
6223.00	37.660	146.990	6148.24	-288.01	408.71	236.31	1695355.51	14279815.17	39°19'24.934"N	80°48'20.642"W	472.11	30.036	9.71	9.42	4.08	
6270.00	42.610	151.440	6184.14	-258.03	382.64	251.77	1695370.96	14279789.12	39°19'24.677"N	80°48'20.446"W	458.04	33.344	11.99	10.32	9.47	
6318.00	47.570	155.610	6218.03	-224.14	352.21	266.87	1695386.05	14279758.70	39°19'24.375"N	80°48'20.255"W	441.90	37.151	12.02	10.33	8.69	
6365.00	52.680	158.420	6248.15	-188.09	319.01	280.91	1695400.10	14279725.51	39°19'24.047"N	80°48'20.077"W	425.07	41.366	11.80	10.87	5.98	
6412.00	56.270	159.420	6275.46	-149.86	283.32	294.66	1695413.84	14279688.84	39°19'23.694"N	80°48'19.903"W	408.78	46.124	7.83	7.64	2.13	
6459.00	58.390	159.540	6300.83	-110.32	246.27	308.53	1695427.70	14279652.80	39°19'23.328"N	80°48'19.727"W	394.77	51.403	4.52	4.52	0.26	
6493.00T	59.205	159.597	6318.44	-81.25	219.02	318.68	1695437.85	14279625.66	39°19'23.058"N	80°48'19.546"W	386.69	55.500	2.40	2.40	0.17	Burket 6493MD / 6318TVD
6507.00	59.540	159.620	6325.58	-59.21	207.73	322.18	1695442.04	14279614.22	39°19'22.946"N	80°48'19.546"W	383.93	57.244	2.40	2.40	0.17	
6549.00T	61.353	157.829	6346.29	-32.69	173.69	336.14	1695455.96	14279580.24	39°19'22.610"N	80°48'19.378"W	378.36	62.674	5.69	4.32	-4.26	Tully: 6549TMD / 6346TVD
6554.00	61.570	157.620	6348.68	-28.29	169.62	337.80	1695466.96	14279576.18	39°19'22.569"N	80°48'19.357"W	378.00	63.337	5.69	4.35	-4.18	
6602.00	66.560	155.300	6369.67	14.84	130.07	355.05	1695485.21	14279536.65	39°19'22.178"N	80°48'18.939"W	378.13	63.880	11.27	10.40	-4.83	
6630.00T	69.907	154.629	6380.05	40.82	106.52	366.06	1695485.21	14279493.10	39°19'21.921"W	80°48'18.999"W	381.24	73.776	12.16	11.95	-2.40	Hamilton: 6630TMD / 6380TVD
6649.00	72.180	154.199	6386.22	58.76	90.31	373.82	1695492.96	14279466.90	39°19'21.785"N	80°48'18.901"W	384.57	76.418	12.16	11.96	-2.31	



Actual Wellpath Report

Pickney Unit 2H AWP Proj: 15210

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Environmental Protection



Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Middle Pad
Slot	Slot #04
	Pickney Unit 2H
	Pickney Unit 2H
	Pickney Unit 2H AWB

REFERENCE WELLPATH IDENTIFICATION

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Buidl Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
6659.00†	72.860	154.260	6389.23	68.28	81.72	377.97	1695497.11	14279488.31	39°19'21.70"N	80°48'18.84"W	386.70	77.800	6.83	6.80	0.70	POE Marcellus: 6659 MD / 6389 TVD
6698.00	75.510	154.530	6399.85	105.74	47.89	394.18	1695513.32	14279454.49	39°19'21.365"N	80°48'18.643"W	397.08	83.073	6.83	6.80	0.69	
6745.00	77.940	154.880	6410.65	151.42	6.53	413.72	1695532.85	14279413.15	39°19'20.956"N	80°48'18.395"W	413.78	89.096	5.22	5.17	0.74	
6793.00	82.040	155.650	6418.99	198.64	-36.39	433.50	1695552.62	14279370.25	39°19'20.531"N	80°48'18.145"W	435.02	94.799	8.64	1.60	1.60	
6840.00	86.860	157.690	6423.53	245.39	-79.33	452.01	1695571.13	14279327.32	39°19'20.106"N	80°48'17.911"W	458.92	99.955	11.13	10.26	4.34	
6888.00	90.180	157.000	6424.77	293.37	-123.61	470.49	1695589.60	14279283.06	39°19'19.666"N	80°48'17.677"W	486.46	104.720	7.06	6.92	-1.44	
6984.00	89.600	154.590	6424.96	389.31	-211.16	509.85	1695628.94	14279195.55	39°19'18.802"N	80°48'17.178"W	551.85	112.498	2.58	-0.60	-2.51	
7079.00	89.690	155.910	6425.54	484.23	-297.43	549.62	1695668.70	14279109.31	39°19'17.949"N	80°48'16.675"W	624.94	118.420	1.39	-0.09	1.39	
7173.00	88.740	155.970	6426.83	578.18	-383.26	587.94	1695707.00	14279203.52	39°19'17.100"N	80°48'16.189"W	701.83	123.099	1.01	-1.01	0.06	
7269.00	88.490	156.760	6429.15	674.12	-471.18	626.42	1695745.46	14278935.64	39°19'16.230"N	80°48'15.702"W	783.84	126.950	0.86	-0.26	0.82	
7364.00	88.460	156.140	6431.68	769.07	-558.23	664.36	1695783.39	14278848.61	39°19'15.368"N	80°48'15.222"W	867.76	130.039	0.65	-0.03	-0.65	
7459.00	88.430	156.970	6436.30	958.94	-731.89	741.32	1695860.32	14278675.03	39°19'13.651"N	80°48'14.247"W	1041.74	134.633	0.74	-0.72	-0.18	
7554.00	89.110	155.970	6436.30	958.94	-731.89	741.32	1695860.32	14278675.03	39°19'13.651"N	80°48'14.247"W	1041.74	134.633	0.74	-0.72	-0.18	
7650.00	88.890	155.460	6437.97	1054.88	-819.38	780.80	1695899.78	14278587.57	39°19'12.785"N	80°48'13.747"W	1131.82	136.381	0.58	-0.23	-0.53	
7745.00	89.080	157.280	6439.66	1149.83	-908.39	818.87	1695937.84	14278500.59	39°19'11.924"N	80°48'12.835"W	1221.51	137.904	1.93	0.20	1.92	
7840.00	89.170	150.710	6441.11	1244.78	-995.06	852.91	1695971.87	14278411.96	39°19'11.047"N	80°48'12.495"W	1310.57	139.399	3.61	0.09	3.61	
7935.00	90.000	166.370	6441.80	1339.24	-1086.12	879.82	1695998.76	14278320.93	39°19'10.146"N	80°48'12.495"W	1397.76	140.991	6.02	0.87	5.96	
8030.00	89.600	166.230	6442.13	1433.15	-1178.42	902.32	1696021.25	14278228.67	39°19'09.234"N	80°48'12.211"W	1484.20	142.559	0.45	-0.42	-0.15	
8125.00	88.980	163.510	6443.31	1527.37	-1270.11	927.11	1696046.03	14278137.02	39°19'08.327"N	80°48'11.898"W	1572.49	143.873	2.94	-0.65	-2.86	
8220.00	89.380	162.010	6444.67	1621.98	-1360.83	955.26	1696074.17	14278046.34	39°19'07.430"N	80°48'11.543"W	1662.64	144.932	1.63	0.42	-1.58	
8315.00	89.170	159.400	6445.87	1716.83	-1450.48	986.65	1696105.55	14277956.72	39°19'06.543"N	80°48'11.146"W	1754.24	145.776	2.76	-0.22	-2.75	
8410.00	89.170	157.090	6447.24	1811.81	-1538.70	1021.85	1696140.74	14277868.54	39°19'05.670"N	80°48'10.700"W	1847.10	146.412	2.43	0.00	-2.43	
8505.00	89.260	155.100	6448.55	1906.76	-1625.54	1060.34	1696179.21	14277781.74	39°19'04.811"N	80°48'10.213"W	1940.80	146.883	2.10	0.09	-2.09	
8600.00	89.110	151.780	6449.90	2001.48	-1710.49	1102.81	1696221.66	14277696.82	39°19'03.971"N	80°48'09.675"W	2035.18	147.189	3.50	-0.16	-3.49	
8695.00	89.110	150.030	6451.37	2095.81	-1793.49	1149.00	1696267.83	14277613.85	39°19'03.149"N	80°48'09.090"W	2129.98	147.354	1.84	0.00	-1.84	
8790.00	88.950	147.850	6452.98	2189.70	-1874.85	1198.00	1696316.82	14277532.52	39°19'02.344"N	80°48'08.468"W	2224.92	147.422	2.30	-0.17	-2.29	
8886.00	88.800	147.900	6454.87	2284.30	-1958.14	1249.04	1696367.84	14277451.27	39°19'01.544"N	80°48'07.821"W	2320.90	147.441	0.16	-0.16	0.05	
8981.00	88.830	150.380	6456.83	2378.23	-2037.67	1297.76	1696416.53	14277369.77	39°19'00.733"N	80°48'07.204"W	2415.83	147.508	2.61	0.03	2.61	
9076.00	88.740	152.630	6458.85	2472.66	-2121.13	1343.07	1696461.82	14277286.34	39°18'59.907"N	80°48'06.629"W	2510.58	147.659	2.37	-0.09	2.37	
9171.00	88.800	157.290	6460.89	2567.51	-2207.16	1383.25	1696502.00	14277200.34	39°18'59.056"N	80°48'06.121"W	2604.79	147.924	4.90	0.06	4.91	



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Middle Pad

Actual Wellpath Report

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WV Department of Environmental Protection



MD (ft)	Inclination (°)	Azimuth (ft)	TVD (ft)	Vert Sect	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (ft)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
9266.00	88.800	156.160	6462.88	2662.47	-2294.41	1420.78	1696539.51	14271713.13	39°18'58.192"N	80°48'05.645"W	2698.69	148.233	1.19	0.00	-1.19	
9361.00	88.800	155.630	6464.87	2757.41	-2381.11	1459.57	1696578.29	14277026.47	39°18'57.335"N	80°48'05.154"W	2792.85	148.492	0.56	0.00	-0.56	
9456.00	88.800	156.340	6466.85	2852.35	-2467.86	1498.23	1696616.92	14276939.75	39°18'56.476"N	80°48'04.665"W	2887.05	148.738	0.75	0.00	-0.75	
9551.00	88.770	159.750	6468.87	2947.31	-2555.94	1533.73	1696652.42	14276851.70	39°18'55.605"N	80°48'04.216"W	2980.80	149.033	3.59	-0.03	3.59	
9646.00	88.800	161.740	6470.88	3042.14	-2645.60	1565.05	1696683.72	14276762.08	39°18'54.718"N	80°48'03.820"W	3073.86	149.393	2.09	0.03	2.09	
9740.00	88.860	164.950	6472.80	3135.65	-2735.63	1591.98	1696710.64	14276672.09	39°18'53.828"N	80°48'03.172"W	3165.13	149.803	3.41	0.06	3.41	
9834.00	88.830	164.970	6474.70	3228.86	-2828.39	1616.37	1696735.02	14276581.36	39°18'52.930"N	80°48'03.172"W	3255.94	150.235	0.04	-0.03	0.02	
9928.00	88.890	161.720	6476.57	3322.36	-2916.41	1643.30	1696761.94	14276491.37	39°18'52.040"N	80°48'02.832"W	3347.53	150.600	3.46	0.06	-3.46	
10022.00	88.860	159.590	6478.42	3416.21	-3005.09	1674.43	1696793.06	14276402.74	39°18'51.163"N	80°48'02.438"W	3440.10	150.873	2.27	-0.03	-2.27	
10120.00	88.890	157.330	6480.34	3514.17	-3096.22	1710.41	1696829.02	14276311.64	39°18'50.261"N	80°48'01.983"W	3537.24	151.083	2.31	0.03	-2.31	
10214.00	88.650	157.860	6482.36	3608.15	-3183.10	1746.23	1696864.82	14276224.79	39°18'49.402"N	80°48'01.530"W	3630.63	151.251	0.62	-0.26	0.56	
10308.00	88.830	158.840	6484.42	3702.12	-3270.45	1780.90	1696899.48	14276137.48	39°18'48.801"N	80°48'01.091"W	3723.90	151.430	1.06	0.19	1.04	
10402.00	88.860	159.020	6486.32	3796.07	-3358.15	1814.68	1696933.25	14276049.82	39°18'47.670"N	80°48'00.664"W	3817.10	151.614	0.19	0.03	0.19	
10496.00	88.950	159.420	6488.12	3890.02	-3446.01	1848.03	1696966.58	14275961.98	39°18'46.801"N	80°48'00.242"W	3910.27	151.796	0.44	0.10	0.43	
10589.00	88.860	159.000	6489.89	3982.97	-3532.94	1881.03	1696999.58	14275875.09	39°18'45.941"N	80°47'59.824"W	4002.49	151.968	0.46	-0.10	-0.45	
10683.00	88.830	158.040	6491.79	4076.94	-3620.40	1915.44	1697033.97	14275787.67	39°18'45.076"N	80°47'59.389"W	4095.87	152.118	1.02	-0.03	-1.02	
10777.00	88.890	157.640	6493.66	4170.92	-3704.13	1949.89	1697069.41	14275700.67	39°18'44.215"N	80°47'58.941"W	4189.40	152.246	0.43	0.06	-0.43	
10871.00	88.930	157.160	6495.53	4264.90	-3794.13	1987.18	1697105.68	14275614.01	39°18'43.357"N	80°47'58.481"W	4283.02	152.357	0.75	-0.06	-0.74	
10965.00	88.920	157.160	6497.37	4358.87	-3880.67	2023.82	1697142.31	14275527.50	39°18'42.501"N	80°47'58.018"W	4376.70	152.457	0.25	0.10	0.23	
11058.00	88.950	157.140	6499.10	4451.85	-3966.36	2059.93	1697178.40	14275441.85	39°18'41.654"N	80°47'57.561"W	4469.38	152.555	0.04	0.03	-0.02	
11152.00	88.860	157.190	6502.49	4545.83	-4052.98	2096.40	1697214.86	14275355.26	39°18'40.797"N	80°47'57.099"W	4563.06	152.650	0.11	-0.10	0.05	
11246.00	89.050	158.880	6505.26	4639.81	-4140.15	2131.53	1697249.97	14275268.13	39°18'39.934"N	80°47'56.655"W	4656.63	152.759	1.88	0.36	1.84	
11340.00	89.200	158.920	6507.90	4733.78	-4227.84	2165.36	1697283.79	14275180.47	39°18'39.067"N	80°47'56.227"W	4750.09	152.880	0.99	-0.16	-0.04	
11434.00	89.320	159.770	6509.26	4827.73	-4315.77	2198.55	1697316.96	14275092.57	39°18'38.197"N	80°47'55.807"W	4843.50	153.005	0.99	0.22	-0.95	
11528.00	89.110	157.860	6506.55	4921.69	-4403.41	2232.51	1697350.91	14275004.97	39°18'37.330"N	80°47'55.377"W	4937.01	153.115	2.04	-2.03	-2.03	
11623.00	89.140	157.110	6508.00	4991.16	-4491.16	2268.88	1697387.27	14274917.26	39°18'36.462"N	80°47'54.917"W	5031.73	153.198	0.79	0.03	-0.79	
11717.00	89.140	156.630	6509.41	5110.66	-4577.59	2305.80	1697424.18	14274830.86	39°18'35.607"N	80°47'54.450"W	5125.53	153.265	0.51	0.00	-0.51	
11810.00	89.080	156.720	6510.86	5203.64	-4662.98	2342.62	1697460.98	14274745.50	39°18'34.762"N	80°47'53.984"W	5218.36	153.326	0.12	-0.06	0.10	
11904.00	89.140	157.140	6512.32	5297.62	-4749.45	2379.45	1697497.80	14274659.07	39°18'33.907"N	80°47'53.518"W	5312.16	153.389	0.45	0.06	0.45	
11998.00	89.020	156.420	6513.83	5391.60	-4835.83	2416.51	1697534.84	14274572.73	39°18'33.052"N	80°47'53.049"W	5405.99	153.448	0.78	-0.13	-0.77	



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Middle Pad
Well	Pickney Unit 2H
Wellbore	Pickney Unit 2H AWB

Actual Wellpath Report

Pickney Unit 2H AWP Proj: 15210

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MD	Inclination	Azimuth	TVD	Vent Sect	North	East	Grid East	Grid North	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
12092.00	88.770	156.780	6515.64	5485.56	-422.08	2453.83	169752.15	14274486.51	80°47'52.576"W	5499.83	153.502	0.47	-0.27	0.38	
12185.00	88.400	157.260	6517.94	5578.53	-500.67	2490.13	1697608.43	14274400.95	80°47'52.117"W	5592.63	153.561	0.65	-0.40	0.52	
12278.00	88.740	158.630	6520.26	5671.50	-5093.84	2525.04	1697643.33	14274314.82	80°47'51.675"W	5685.33	153.632	1.52	0.37	1.47	
12372.00	89.290	162.520	6521.87	5765.34	-5182.46	2556.29	1697674.57	14274226.23	80°47'51.280"W	5778.62	153.745	4.18	0.59	4.14	
12466.00	88.920	164.400	6525.06	5858.82	-5272.61	2582.86	1697701.12	14274136.12	80°47'50.945"W	5871.25	153.901	2.29	-0.39	2.26	
12560.00	88.980	164.400	6525.06	5952.12	-5363.18	2607.94	1697726.20	14274045.58	80°47'50.628"W	5963.65	154.068	0.26	0.06	2.04	
12654.00	88.920	166.320	6526.79	6045.25	-5454.11	2631.70	1697749.94	14273954.69	80°47'50.329"W	6055.83	154.242	2.04	-0.06	2.04	
12747.00	89.020	167.600	6528.46	6137.00	-5544.69	2652.67	1697770.91	14273864.14	80°47'50.064"W	6146.57	154.433	1.38	0.11	1.38	
12841.00	88.370	166.630	6530.60	6229.69	-5636.30	2673.63	1697791.86	14273772.57	80°47'49.800"W	6238.28	154.622	1.24	-0.69	-1.03	
12934.00	89.170	166.890	6532.60	6321.49	-5726.81	2694.93	1697813.15	14273682.10	80°47'49.532"W	6329.21	154.799	0.90	0.86	0.28	
13028.00	89.200	163.430	6533.93	6414.66	-5817.65	2718.99	1697837.20	14273591.29	80°47'49.229"W	6421.68	154.950	3.68	0.03	-3.68	
13122.00	89.200	159.040	6535.25	6508.44	-5906.62	2749.22	1697867.42	14273502.36	80°47'48.847"W	6515.09	155.040	4.67	0.00	-4.67	
13216.00	89.380	156.150	6536.46	6602.42	-5993.51	2785.04	1697903.23	14273415.50	80°47'48.393"W	6608.98	155.077	3.08	0.19	-3.07	
13309.00	89.970	152.940	6537.94	6695.27	-6077.47	2825.01	1697943.18	14273331.58	80°47'47.887"W	6701.96	155.069	3.51	0.63	-3.46	
13403.00	89.750	148.550	6539.17	6788.57	-6159.46	2870.94	1697989.09	14273249.62	80°47'47.305"W	6795.68	155.010	4.68	-0.23	-4.67	
13496.00	89.690	148.230	6537.62	6880.36	-6238.66	2919.68	1698037.81	14273170.45	80°47'46.688"W	6888.06	154.921	0.35	-0.06	-0.34	
13590.00	89.570	147.520	6538.23	6973.00	-6318.27	2969.66	1698087.78	14273090.88	80°47'46.054"W	6981.36	154.826	0.77	-0.13	-0.76	
13683.00	89.690	146.540	6538.83	7064.41	-6396.29	3020.27	1698138.36	14273012.89	80°47'45.412"W	7073.51	154.724	1.06	0.13	-1.05	
13777.00	89.690	149.220	6539.34	7157.04	-6475.89	3070.25	1698188.32	14272933.31	80°47'44.779"W	7166.84	154.634	2.85	0.00	2.85	
13871.00	90.090	150.190	6539.52	7250.15	-6557.05	3117.67	1698235.72	14272852.18	80°47'44.178"W	7260.49	154.570	1.12	0.43	1.03	
13964.00	89.820	152.770	6539.59	7342.60	-6638.76	3162.07	1698280.10	14272770.51	80°47'43.616"W	7353.35	154.531	2.79	-0.29	2.77	
14058.00	89.350	156.020	6540.88	7436.38	-6723.03	3203.71	1698321.73	14272686.28	80°47'43.088"W	7447.34	154.521	1.99	-0.20	1.98	
14152.00	89.630	156.020	6541.68	7530.29	-6808.44	3242.95	1698360.95	14272600.90	80°47'42.592"W	7541.32	154.531	1.51	-0.30	1.48	
14245.00	89.660	158.050	6541.68	7623.28	-6894.06	3279.23	1698397.22	14272515.31	80°47'42.133"W	7634.23	154.561	2.21	0.33	2.18	
14339.00	89.630	159.490	6542.27	7717.26	-6981.67	3313.27	1698431.24	14272427.73	80°47'41.702"W	7727.97	154.613	1.53	-0.03	1.53	
14433.00	89.820	159.390	6542.72	7811.21	-7069.69	3346.28	1698464.24	14272339.76	80°47'41.285"W	7821.64	154.670	0.23	0.20	-0.11	
14527.00	89.630	159.390	6543.17	7905.16	-7157.67	3379.37	1698497.32	14272251.81	80°47'40.866"W	7915.33	154.726	0.20	-0.20	0.00	
14621.00	89.630	158.370	6543.78	7999.14	-7245.35	3413.24	1698531.17	14272164.16	80°47'40.438"W	8009.08	154.775	1.09	0.00	-1.09	
14714.00	89.750	157.410	6544.28	8092.13	-7331.51	3448.24	1698566.16	14272078.04	80°47'39.995"W	8101.94	154.811	1.04	0.13	-1.03	
14808.00	89.720	154.630	6544.71	8186.09	-7417.39	3486.44	1698604.35	14271992.19	80°47'39.512"W	8195.91	154.825	2.96	-0.03	-2.96	



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Pickney Unit 2H AWP Proj: 15210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Pickney Unit 2H
Field	Doddridge	Wellbore	Pickney Unit 2H AWB
Facility	Middle Pad		

WELLPATH DATA (186 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
14901.00	89.570	152.700	6545.29	8278.86	-7500.73	3527.70	1698645.58	14271908.88	39°18'06.688"N	80°47'38.989"W	8288.88	154.812	2.08	-0.16	-2.08	
14995.00	89.780	153.550	6545.82	8372.57	-7584.58	3570.19	1698688.06	14271825.07	39°18'05.859"N	80°47'38.451"W	8382.84	154.793	0.93	0.22	0.90	
15089.00	89.630	155.240	6546.31	8466.41	-7669.34	3610.81	1698728.66	14271740.34	39°18'05.020"N	80°47'37.937"W	8476.83	154.788	1.80	-0.16	1.80	
15182.00	89.780	157.570	6546.79	8559.38	-7754.56	3648.03	1698765.87	14271655.16	39°18'04.177"N	80°47'37.466"W	8569.79	154.806	2.51	0.16	2.51	
15186.00	89.750	157.700	6546.80	8563.38	-7758.26	3649.55	1698767.39	14271651.46	39°18'04.140"N	80°47'37.447"W	8573.79	154.807	3.34	-0.75	3.25	
15210.00	89.750	157.700	6546.91	8587.38	-7780.46	3658.66	1698776.50	14271629.26	39°18'03.921"N	80°47'37.332"W	8597.75	154.815	0.00	0.00	0.00	Projected MD @ TD: 15210'

HOLE & CASING SECTIONS - Ref Wellbore: Pickney Unit 2H AWB Ref Wellpath: Pickney Unit 2H AWP Proj: 15210'									
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	32.00	112.00	80.00	32.00	112.00	0.00	0.00	0.13	-0.04
17.5in Open Hole	112.00	551.20	439.20	112.00	551.20	0.13	-0.04	0.36	-0.99
13.375in Casing Surface	32.00	551.20	519.20	32.00	551.20	0.00	0.00	0.36	-0.99
12.25in Open Hole	551.20	2627.10	2075.90	551.20	2625.15	0.36	-0.99	32.35	19.30
9.625in Casing Intermediate	32.00	2627.10	2595.10	32.00	2625.15	0.00	0.00	32.35	19.30
8.75in Open Hole	2627.10	5797.00	3169.90	2625.15	5754.72	32.35	19.30	495.80	129.22
8.5in Open Hole	5797.00	15210.00	9413.00	5754.72	6546.91	495.80	129.22	-7780.46	3658.66
5.5in Casing Production	32.00	15210.00	15178.00	32.00	6546.91	0.00	0.00	-7780.46	3658.66



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 Pickney Unit 2H AWP Proj: 15210'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Doddridge Co., WV	Well	Pickney Unit 2H
Field	Doddridge	Wellbore	Pickney Unit 2H AWB
Facility	Middle Pad		

TARGETS	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Pickney Unit 2H POE Rev-2	6387.00	55.52	378.14	1695497.28	14279462.12	39°19'21.441"N	80°48'18.847"W	point
Pickney Unit 2H Azi Rev-2	6427.00	-308.89	559.20	1695678.28	14279097.86	39°19'17.835"N	80°48'16.553"W	point
Pickney Unit 2H BHL Rev-2	6427.00	-7792.04	3638.63	1698756.47	14271617.59	39°18'03.807"N	80°47'37.587"W	point
Pickney Unit 2H IP #1 Rev-1	6427.00	-4915.58	2454.90	1697573.22	14274493.00	39°18'32.263"N	80°47'52.563"W	point
Pickney Unit 2H LP Rev-2	6427.00	-153.81	487.11	1695606.21	14279252.87	39°19'19.369"N	80°48'17.466"W	point

WELLPATH COMPOSITION - Ref Wellbore: Pickney Unit 2H AWB Ref Wellpath: Pickney Unit 2H AWP Proj: 15210'			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
32.00	517.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2"> (100'-500')
517.00	2553.00	ISCWSA MWD, Rev. 4 (Standard)	02 Directional ONE MWD <12-1/4"> (500')(560'-2536')
2553.00	5716.00	ISCWSA MWD, Rev. 4 (Standard)	03 Directional ONE MWD <8-3/4"> (2536')(2651'-5699')
5716.00	15186.00	BH AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (5716')(5779'-15186')
15186.00	15210.00	Blind Drilling (Std)	Projection to bit

