



ANTERO RESOURCES CORPORATION

Location: Doddridge Co., WV
Field: Doddridge
Facility: James Webb Pad

Slot: Slot #08
Well: Mary Jane Unit 2H
Wellbore: Mary Jane Unit 2H PWB



Plot reference wellpath is Mary Jane Unit 2H PWP Rev-A.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to Patterson 343 (RKB)	* = Wellpath was transformed from a different geoidic datum
Measured depths are referenced to Patterson 343 (RKB)	North Reference: Grid north
Patterson 343 (RKB) to Mean Sea Level: 1016 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #08): -991 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: edswar on 2016-09-15
	Database: WA_MPL_EASTERNUS_Deln

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
James Webb Pad	1676270.820	14248823.840	39°14'18.837"N	80°52'24.137"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot #08	14.43	25.76	1676296.570	14248838.260
			Latitude	Longitude
			39°14'18.979"N	80°52'23.809"W
Comment	Mary Jane Unit 2H			
Patterson 343 (RKB) to Mud line (At Slot: Slot #08)	25ft			
Mean Sea Level to Mud line (At Slot: Slot #08)	-991ft			
Patterson 343 (RKB) to Mean Sea Level	1016ft			

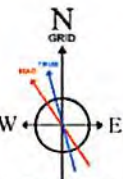
Well Data			
Slot	Well	Wellbore	Wellpath
Slot #08	Mary Jane Unit 2H	Mary Jane Unit 2H AAWB	Mary Jane Unit 2H AAWP Proj. 18063'
Slot #08	Mary Jane Unit 2H	Mary Jane Unit 2H PWB	Mary Jane Unit 2H PWP Rev-A.0

Scale 1 inch = 1500

True Vertical Depth (ft)



SDI Keeper <8-3/4"> (100'-5560.01') : 0.17° Inc, 112.00ft MD, 112.00ft TVD, -0.05ft VS



User specified Dip: 66.57° Field: 52078 nT
Magnetic North is 7.67 degrees West of True North (at 7/7/2016)
Grid North is 0.08 degrees East of True North
To correct azimuth from True to Grid subtract 0.08 degrees
To correct azimuth from Magnetic to Grid subtract 7.75 degrees

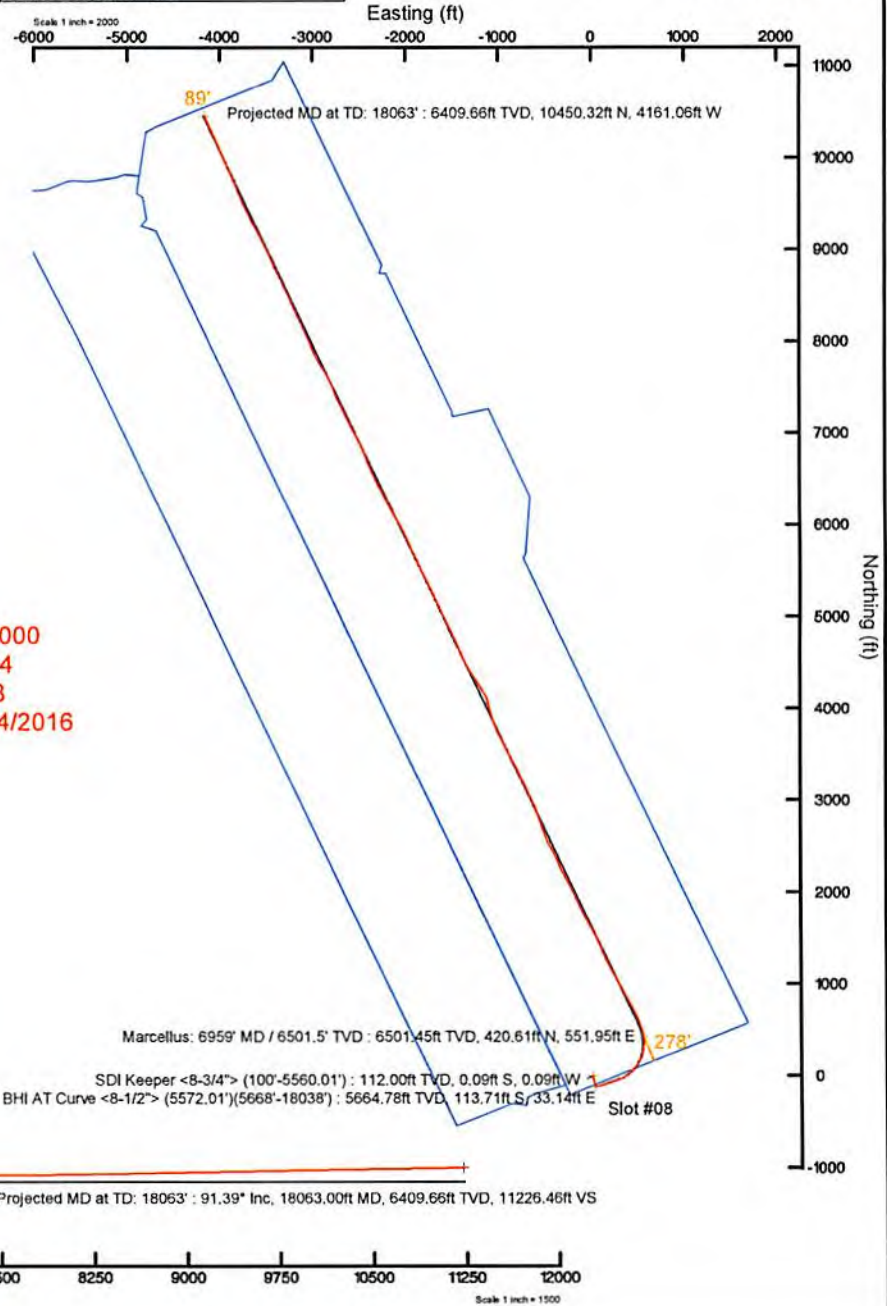
BHI AT Curve <8-1/2"> (5572.01')(5668'-18038') : 2.66° Inc, 5668.00ft MD, 5664.78ft TVD, -116.97ft VS

Marcellus: 6959' MD / 6501.5' TVD : 77.92° Inc, 6959.00ft MD, 6501.45ft TVD, 144.62ft VS

Projected MD at TD: 18063' : 91.39° Inc, 18063.00ft MD, 6409.66ft TVD, 11226.46ft VS

Marcellus: 6959' MD / 6501.5' TVD : 6501.45ft TVD, 420.61ft N, 551.95ft E
SDI Keeper <8-3/4"> (100'-5560.01') : 112.00ft TVD, 0.09ft S, 0.09ft W
BHI AT Curve <8-1/2"> (5572.01')(5668'-18038') : 5664.78ft TVD, 113.71ft S, 33.14ft E

Slot #08



API: 47-017-07000-0000
BHI Job #: 8043704
Rig: Patterson 343
Duration: 7/10/2016-7/14/2016

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Vertical Section (ft)
Azimuth 334.72° with reference 0.00 N, 0.00 E

Scale 1 inch = 1500



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Mary Jane Unit 2H AWP Proj: 18063'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Edsaryar
Scale	0.999601	Report Generated	9/15/2016 at 10:48:36 AM
Convergence at slot	0.09° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Mary_Jane_Unit_2H_AWP_Proj_18063_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	14.43	25.76	1676296.57	14248838.26	39°14'18.979"N	80°52'23.809"W
Facility Reference Pt			1676270.82	14248823.84	39°14'18.837"N	80°52'24.137"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	1016.00ft
Vertical Reference Pt	Patterson 343 (RKB)	Patterson 343 (RKB) to Mud Line at Slot (Slot #08)	25.00ft
MD Reference Pt	Patterson 343 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	334.72°

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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]	[°]	["/100ft]	["/100ft]	["/100ft]	
0.00	0.000	224.150	0.00	0.00	0.00	0.00	1676296.57	14248838.26	39°14'18.979"N	80°52'23.809"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.000	224.150	25.00	0.00	0.00	0.00	1676296.57	14248838.26	39°14'18.979"N	80°52'23.809"W	0.00	0.000	0.00	0.00	0.00	
112.00	0.170	224.150	112.00	-0.05	-0.09	-0.09	1676296.48	14248838.17	39°14'18.978"N	80°52'23.810"W	0.13	224.150	0.20	0.20	-156.15	SDI Keeper <8-3/4"> (100'-5560.01')
137.00	0.240	194.140	137.00	-0.10	-0.17	-0.13	1676296.44	14248838.09	39°14'18.977"N	80°52'23.811"W	0.21	217.091	0.50	0.28	-120.04	
162.00	0.300	189.220	162.00	-0.19	-0.29	-0.15	1676296.42	14248837.97	39°14'18.976"N	80°52'23.811"W	0.32	208.011	0.26	0.24	-19.68	
187.00	0.280	189.320	187.00	-0.30	-0.41	-0.17	1676296.40	14248837.85	39°14'18.975"N	80°52'23.811"W	0.44	202.768	0.08	-0.08	0.40	
212.00	0.270	193.810	212.00	-0.39	-0.53	-0.20	1676296.37	14248837.73	39°14'18.974"N	80°52'23.812"W	0.56	200.388	0.09	-0.04	17.96	
237.00	0.290	187.320	237.00	-0.49	-0.65	-0.22	1676296.35	14248837.61	39°14'18.973"N	80°52'23.812"W	0.68	198.623	0.15	0.08	-25.96	
262.00	0.310	188.600	262.00	-0.60	-0.78	-0.24	1676296.33	14248837.48	39°14'18.971"N	80°52'23.812"W	0.81	196.918	0.08	0.08	5.12	
287.00	0.320	190.470	287.00	-0.71	-0.91	-0.26	1676296.31	14248837.35	39°14'18.970"N	80°52'23.812"W	0.95	195.854	0.06	0.04	7.48	
312.00	0.310	189.070	312.00	-0.83	-1.05	-0.28	1676296.29	14248837.21	39°14'18.969"N	80°52'23.813"W	1.09	195.086	0.05	-0.04	-5.60	
337.00	0.370	181.020	337.00	-0.96	-1.20	-0.29	1676296.28	14248837.06	39°14'18.967"N	80°52'23.813"W	1.23	193.844	0.31	0.24	-32.20	
362.00	0.330	184.810	362.00	-1.09	-1.35	-0.30	1676296.27	14248836.91	39°14'18.966"N	80°52'23.813"W	1.38	192.632	0.18	-0.16	15.16	
387.00	0.330	188.870	387.00	-1.21	-1.49	-0.32	1676296.25	14248836.77	39°14'18.964"N	80°52'23.813"W	1.52	192.086	0.09	0.00	16.24	
412.00	0.400	189.050	412.00	-1.34	-1.65	-0.34	1676296.23	14248836.61	39°14'18.963"N	80°52'23.813"W	1.68	191.792	0.28	0.28	0.72	
437.00	0.430	188.430	436.99	-1.49	-1.83	-0.37	1676296.20	14248836.43	39°14'18.961"N	80°52'23.814"W	1.86	191.494	0.12	0.12	-2.48	
462.00	0.820	184.890	461.99	-1.73	-2.10	-0.40	1676296.17	14248836.16	39°14'18.958"N	80°52'23.814"W	2.14	190.808	1.57	1.56	-14.16	
487.00	1.570	190.480	486.99	-2.16	-2.61	-0.48	1676296.09	14248835.65	39°14'18.953"N	80°52'23.815"W	2.66	190.368	3.03	3.00	22.36	
512.00	2.130	189.270	511.97	-2.82	-3.41	-0.62	1676295.95	14248834.85	39°14'18.945"N	80°52'23.817"W	3.46	190.232	2.25	2.24	-4.84	
537.00	2.440	184.740	536.95	-3.66	-4.40	-0.73	1676295.84	14248833.86	39°14'18.936"N	80°52'23.818"W	4.46	189.477	1.43	1.24	-18.12	
562.00	2.860	180.130	561.93	-4.69	-5.55	-0.78	1676295.79	14248832.71	39°14'18.924"N	80°52'23.819"W	5.61	187.992	1.88	1.68	-18.44	
587.00	2.970	179.540	586.90	-5.84	-6.82	-0.78	1676295.79	14248831.44	39°14'18.912"N	80°52'23.819"W	6.87	186.486	0.46	0.44	-2.36	
612.00	3.070	177.650	611.86	-7.04	-8.14	-0.74	1676295.83	14248830.12	39°14'18.899"N	80°52'23.819"W	8.17	185.216	0.56	0.40	-7.56	
637.00	3.600	174.360	636.82	-8.40	-9.59	-0.64	1676295.93	14248828.67	39°14'18.884"N	80°52'23.817"W	9.61	183.809	2.25	2.12	-13.16	
662.00	4.220	171.100	661.76	-10.02	-11.28	-0.42	1676296.15	14248826.99	39°14'18.868"N	80°52'23.815"W	11.29	182.127	2.63	2.48	-13.04	
687.00	4.370	170.630	686.69	-11.82	-13.13	-0.12	1676296.45	14248825.14	39°14'18.849"N	80°52'23.811"W	13.13	180.531	0.62	0.60	-1.88	
712.00	4.580	167.940	711.61	-13.71	-15.04	0.24	1676296.81	14248823.22	39°14'18.830"N	80°52'23.806"W	15.05	179.078	1.19	0.84	-10.76	
737.00	4.740	166.450	736.53	-15.69	-17.02	0.69	1676297.26	14248821.24	39°14'18.811"N	80°52'23.801"W	17.04	177.670	0.80	0.64	-5.96	
762.00	5.030	164.220	761.44	-17.78	-19.08	1.23	1676297.80	14248819.18	39°14'18.791"N	80°52'23.794"W	19.12	176.304	1.39	1.16	-8.92	
787.00	5.240	163.370	786.34	-19.99	-21.23	1.86	1676298.43	14248817.04	39°14'18.769"N	80°52'23.786"W	21.31	175.000	0.89	0.84	-3.40	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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
812.00	5.280	162.430	811.23	-22.26	-23.42	2.53	1676299.10	14248814.85	39°14'18.748"N	80°52'23.777"W	23.56	173.832	0.38	0.16	-3.76	
837.00	5.400	162.210	836.13	-24.57	-25.64	3.24	1676299.81	14248812.63	39°14'18.726"N	80°52'23.768"W	25.84	172.802	0.49	0.48	-0.88	
862.00	5.420	161.580	861.01	-26.90	-27.88	3.97	1676300.54	14248810.39	39°14'18.704"N	80°52'23.759"W	28.16	171.895	0.25	0.08	-2.52	
887.00	5.540	161.170	885.90	-29.28	-30.14	4.73	1676301.30	14248808.13	39°14'18.681"N	80°52'23.749"W	30.51	171.076	0.50	0.48	-1.64	
912.00	5.470	160.770	910.79	-31.66	-32.41	5.51	1676302.08	14248805.86	39°14'18.659"N	80°52'23.740"W	32.87	170.342	0.32	-0.28	-1.60	
937.00	5.610	161.110	935.67	-34.06	-34.69	6.30	1676302.87	14248803.58	39°14'18.636"N	80°52'23.730"W	35.26	169.702	0.58	0.56	1.36	
962.00	5.470	159.770	960.55	-36.46	-36.96	7.11	1676303.68	14248801.31	39°14'18.614"N	80°52'23.719"W	37.64	169.111	0.76	-0.56	-5.36	
987.00	5.260	159.430	985.44	-38.79	-39.15	7.93	1676304.49	14248799.12	39°14'18.592"N	80°52'23.709"W	39.95	168.557	0.85	-0.84	-1.36	
1012.00	4.840	159.300	1010.35	-40.98	-41.21	8.70	1676305.27	14248797.06	39°14'18.572"N	80°52'23.699"W	42.12	168.079	1.68	-1.68	-0.52	
1037.00	4.510	159.100	1035.26	-43.01	-43.12	9.42	1676305.99	14248795.16	39°14'18.553"N	80°52'23.690"W	44.14	167.671	1.32	-1.32	-0.80	
1062.00	4.250	160.110	1060.19	-44.92	-44.91	10.09	1676306.66	14248793.37	39°14'18.535"N	80°52'23.682"W	46.03	167.337	1.08	-1.04	4.04	
1087.00	3.930	160.960	1085.13	-46.69	-46.59	10.68	1676307.25	14248791.69	39°14'18.519"N	80°52'23.674"W	47.80	167.083	1.30	-1.28	3.40	
1112.00	3.590	160.300	1110.07	-48.32	-48.14	11.23	1676307.79	14248790.14	39°14'18.503"N	80°52'23.667"W	49.43	166.870	1.37	-1.36	-2.64	
1137.00	3.400	160.930	1135.02	-49.84	-49.57	11.73	1676308.30	14248788.71	39°14'18.489"N	80°52'23.661"W	50.94	166.683	0.78	-0.76	2.52	
1162.00	2.950	160.720	1159.99	-51.21	-50.88	12.19	1676308.75	14248787.40	39°14'18.476"N	80°52'23.655"W	52.32	166.529	1.80	-1.80	-0.84	
1187.00	2.820	162.100	1184.95	-52.46	-52.07	12.59	1676309.16	14248786.21	39°14'18.464"N	80°52'23.650"W	53.57	166.408	0.59	-0.52	5.52	
1212.00	2.550	163.300	1209.93	-53.62	-53.19	12.94	1676309.50	14248785.09	39°14'18.453"N	80°52'23.646"W	54.74	166.328	1.10	-1.08	4.80	
1237.00	2.220	164.000	1234.91	-54.65	-54.19	13.23	1676309.80	14248784.09	39°14'18.443"N	80°52'23.642"W	55.78	166.278	1.33	-1.32	2.80	
1262.00	1.950	161.820	1259.89	-55.55	-55.06	13.50	1676310.06	14248783.22	39°14'18.435"N	80°52'23.638"W	56.69	166.225	1.13	-1.08	-8.72	
1287.00	1.780	162.070	1284.88	-56.36	-55.83	13.75	1676310.32	14248782.45	39°14'18.427"N	80°52'23.635"W	57.50	166.165	0.68	-0.68	1.00	
1312.00	1.680	165.900	1309.86	-57.10	-56.56	13.96	1676310.52	14248781.72	39°14'18.420"N	80°52'23.633"W	58.26	166.136	0.61	-0.40	15.32	
1337.00	1.440	165.730	1334.86	-57.77	-57.22	14.13	1676310.69	14248781.07	39°14'18.413"N	80°52'23.631"W	58.94	166.132	0.96	-0.96	-0.68	
1362.00	1.220	170.740	1359.85	-58.33	-57.78	14.25	1676310.81	14248780.50	39°14'18.408"N	80°52'23.629"W	59.52	166.150	0.99	-0.88	20.04	
1387.00	1.120	170.260	1384.84	-58.83	-58.29	14.33	1676310.89	14248779.99	39°14'18.403"N	80°52'23.628"W	60.02	166.187	0.40	-0.40	-1.92	
1412.00	0.950	167.820	1409.84	-59.26	-58.73	14.42	1676310.98	14248779.55	39°14'18.398"N	80°52'23.627"W	60.48	166.210	0.70	-0.68	-9.76	
1437.00	0.880	171.550	1434.84	-59.65	-59.12	14.49	1676311.05	14248779.16	39°14'18.395"N	80°52'23.626"W	60.87	166.232	0.37	-0.28	14.92	
1462.00	0.770	171.210	1459.83	-59.99	-59.48	14.54	1676311.11	14248778.80	39°14'18.391"N	80°52'23.625"W	61.23	166.262	0.44	-0.44	-1.36	
1487.00	0.680	171.760	1484.83	-60.30	-59.79	14.59	1676311.15	14248778.49	39°14'18.388"N	80°52'23.625"W	61.55	166.289	0.36	-0.36	2.20	
1512.00	0.590	176.620	1509.83	-60.56	-60.07	14.62	1676311.18	14248778.22	39°14'18.385"N	80°52'23.624"W	61.82	166.323	0.42	-0.36	19.44	
1537.00	0.440	181.990	1534.83	-60.76	-60.29	14.62	1676311.19	14248777.99	39°14'18.383"N	80°52'23.624"W	62.04	166.369	0.63	-0.60	21.48	

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Field	Doddrige	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 stations)												
MD	Inclination	Azimuth	TVD	Vent Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[°]
1562.00	0.390	182.140	1559.83	-60.92	-60.47	14.61	1676311.18	1424877.81	39°14'18.381"N	80°52'23.624"W	62.21	166.414
1587.00	0.440	185.580	1584.83	-61.08	-60.65	14.60	1676311.17	1424877.63	39°14'18.379"N	80°52'23.625"W	62.39	166.464
1612.00	0.410	186.490	1609.83	-61.24	-60.84	14.58	1676311.15	1424877.45	39°14'18.378"N	80°52'23.625"W	62.56	166.521
1637.00	0.370	189.260	1634.83	-61.38	-61.01	14.56	1676311.12	1424877.28	39°14'18.376"N	80°52'23.625"W	62.72	166.577
1662.00	0.410	190.070	1659.83	-61.52	-61.18	14.53	1676311.10	1424877.11	39°14'18.374"N	80°52'23.625"W	62.88	166.638
1687.00	0.310	178.910	1684.83	-61.66	-61.33	14.52	1676311.08	1424877.95	39°14'18.373"N	80°52'23.626"W	63.03	166.683
1712.00	0.420	190.270	1709.82	-61.79	-61.49	14.50	1676311.07	1424877.80	39°14'18.371"N	80°52'23.626"W	63.18	166.729
1737.00	0.310	188.430	1734.82	-61.92	-61.65	14.48	1676311.04	1424877.64	39°14'18.370"N	80°52'23.626"W	63.32	166.785
1762.00	0.450	184.830	1759.82	-62.06	-61.81	14.44	1676311.01	1424877.48	39°14'18.368"N	80°52'23.627"W	63.47	166.849
1787.00	0.330	184.830	1784.82	-62.19	-61.97	14.41	1676310.97	1424877.31	39°14'18.366"N	80°52'23.627"W	63.63	166.910
1812.00	0.420	191.890	1809.82	-62.33	-62.14	14.39	1676310.95	1424877.15	39°14'18.365"N	80°52'23.627"W	63.78	166.965
1837.00	0.470	190.180	1834.82	-62.48	-62.33	14.35	1676310.91	1424877.96	39°14'18.363"N	80°52'23.628"W	63.96	167.035
1862.00	0.440	197.070	1859.82	-62.64	-62.52	14.30	1676310.87	1424877.77	39°14'18.361"N	80°52'23.628"W	64.13	167.114
1887.00	0.140	206.700	1884.82	-62.73	-62.64	14.26	1676310.82	1424877.55	39°14'18.360"N	80°52'23.629"W	64.24	167.174
1912.00	0.220	232.370	1909.82	-62.76	-62.69	14.21	1676310.77	1424877.59	39°14'18.359"N	80°52'23.630"W	64.28	167.231
1937.00	0.140	233.230	1934.82	-62.77	-62.74	14.15	1676310.71	1424877.54	39°14'18.359"N	80°52'23.630"W	64.32	167.294
1962.00	0.150	230.970	1959.82	-62.79	-62.78	14.10	1676310.66	1424877.50	39°14'18.358"N	80°52'23.631"W	64.34	167.345
1987.00	0.170	272.410	1984.82	-62.78	-62.80	14.03	1676310.60	1424877.48	39°14'18.358"N	80°52'23.632"W	64.35	167.403
2012.00	0.110	236.710	2009.82	-62.77	-62.81	13.98	1676310.54	1424877.47	39°14'18.358"N	80°52'23.633"W	64.35	167.455
2037.00	0.160	229.900	2034.82	-62.78	-62.85	13.93	1676310.49	1424877.44	39°14'18.358"N	80°52'23.633"W	64.37	167.503
2062.00	0.150	254.360	2059.82	-62.78	-62.88	13.87	1676310.44	1424877.41	39°14'18.357"N	80°52'23.634"W	64.39	167.559
2087.00	0.160	254.370	2084.82	-62.77	-62.90	13.81	1676310.37	1424877.39	39°14'18.357"N	80°52'23.635"W	64.39	167.619
2112.00	0.170	316.810	2109.82	-62.73	-62.88	13.75	1676310.31	1424877.41	39°14'18.357"N	80°52'23.635"W	64.36	167.667
2137.00	0.050	272.490	2134.82	-62.69	-62.85	13.71	1676310.28	1424877.43	39°14'18.358"N	80°52'23.636"W	64.33	167.694
2162.00	0.160	205.450	2159.82	-62.70	-62.88	13.69	1676310.25	1424877.40	39°14'18.357"N	80°52'23.636"W	64.35	167.722
2187.00	0.120	210.840	2184.82	-62.74	-62.94	13.66	1676310.22	1424877.35	39°14'18.357"N	80°52'23.637"W	64.40	167.757
2212.00	0.100	285.650	2209.82	-62.74	-62.95	13.62	1676310.19	1424877.33	39°14'18.357"N	80°52'23.637"W	64.41	167.790
2237.00	0.170	269.890	2234.82	-62.71	-62.95	13.56	1676310.13	1424877.34	39°14'18.357"N	80°52'23.638"W	64.39	167.839
2262.00	0.120	304.560	2259.82	-62.67	-62.93	13.51	1676310.07	1424877.35	39°14'18.357"N	80°52'23.639"W	64.37	167.888
2287.00	0.150	275.330	2284.82	-62.63	-62.91	13.45	1676310.02	1424877.37	39°14'18.357"N	80°52'23.639"W	64.34	167.931

MD	Inclination	Azimuth	TVD	Vent 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]	[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	[ft/100ft]

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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)	(°)	(°/100ft)	(°/100ft)	(°/100ft)		
2312.00	0.120	241.800	2309.82	-62.62	-62.92	13.40	1676309.96	14248775.36	39°14'18.357"N	80°52'23.640"W	64.33	167.982	0.33	-0.12	-134.12		
2337.00	0.160	199.020	2334.82	-62.65	-62.97	13.36	1676309.93	14248775.32	39°14'18.357"N	80°52'23.640"W	64.37	168.020	0.43	0.16	-171.12		
2362.00	0.060	299.000	2359.82	-62.66	-63.00	13.34	1676309.90	14248775.29	39°14'18.356"N	80°52'23.641"W	64.39	168.045	0.72	-0.40	399.92		
2387.00	0.040	248.950	2384.82	-62.65	-62.99	13.32	1676309.88	14248775.29	39°14'18.356"N	80°52'23.641"W	64.39	168.061	0.18	-0.08	-200.20		
2412.00	0.130	274.650	2409.82	-62.63	-62.99	13.28	1676309.85	14248775.29	39°14'18.356"N	80°52'23.641"W	64.38	168.093	0.38	0.36	102.80		
2437.00	0.140	281.470	2434.82	-62.60	-62.99	13.22	1676309.79	14248775.30	39°14'18.356"N	80°52'23.642"W	64.36	168.142	0.08	0.04	27.28		
2462.00	0.180	226.630	2459.82	-62.59	-63.01	13.17	1676309.73	14248775.28	39°14'18.356"N	80°52'23.643"W	64.37	168.197	0.61	0.16	-219.36		
2487.00	0.100	217.960	2484.82	-62.62	-63.05	13.12	1676309.69	14248775.23	39°14'18.356"N	80°52'23.643"W	64.40	168.242	0.33	-0.32	-34.68		
2512.01	0.070	318.980	2509.83	-62.61	-63.06	13.10	1676309.67	14248775.23	39°14'18.356"N	80°52'23.644"W	64.40	168.263	0.53	-0.12	403.92		
2537.01	0.080	286.250	2534.83	-62.59	-63.04	13.07	1676309.64	14248775.25	39°14'18.356"N	80°52'23.644"W	64.38	168.283	0.17	0.04	-130.92		
2562.01	0.160	226.680	2559.83	-62.59	-63.06	13.03	1676309.60	14248775.23	39°14'18.356"N	80°52'23.645"W	64.39	168.324	0.55	0.32	-238.28		
2587.01	0.150	251.430	2584.83	-62.59	-63.09	12.98	1676309.54	14248775.19	39°14'18.355"N	80°52'23.645"W	64.41	168.379	0.27	-0.04	99.00		
2612.01	0.220	228.470	2609.83	-62.60	-63.14	12.91	1676309.47	14248775.15	39°14'18.355"N	80°52'23.646"W	64.44	168.445	0.40	0.28	-91.84		
2637.01	0.130	319.550	2634.83	-62.59	-63.15	12.85	1676309.42	14248775.14	39°14'18.355"N	80°52'23.647"W	64.44	168.494	1.03	-0.36	364.32		
2662.01	0.150	285.260	2659.83	-62.54	-63.12	12.80	1676309.37	14248775.17	39°14'18.355"N	80°52'23.647"W	64.40	168.532	0.34	0.08	-137.16		
2687.01	0.200	286.340	2684.83	-62.49	-63.09	12.73	1676309.30	14248775.19	39°14'18.355"N	80°52'23.648"W	64.37	168.593	0.20	0.20	4.32		
2712.01	0.300	272.330	2709.83	-62.43	-63.08	12.62	1676309.19	14248775.21	39°14'18.356"N	80°52'23.650"W	64.33	168.684	0.47	0.40	-56.04		
2737.01	0.300	266.040	2734.83	-62.38	-63.08	12.49	1676309.06	14248775.20	39°14'18.355"N	80°52'23.651"W	64.31	168.798	0.13	0.00	-25.16		
2762.01	0.290	265.090	2759.83	-62.33	-63.09	12.36	1676308.93	14248775.19	39°14'18.355"N	80°52'23.653"W	64.29	168.912	0.04	-0.04	-3.80		
2787.01	0.240	279.180	2784.83	-62.28	-63.09	12.25	1676308.81	14248775.20	39°14'18.355"N	80°52'23.654"W	64.27	169.012	0.33	-0.20	56.36		
2812.01	0.310	269.310	2809.83	-62.22	-63.08	12.13	1676308.70	14248775.20	39°14'18.356"N	80°52'23.656"W	64.24	169.115	0.34	0.28	-39.48		
2837.01	0.270	267.170	2834.83	-62.17	-63.08	12.00	1676308.57	14248775.20	39°14'18.355"N	80°52'23.658"W	64.22	169.226	0.17	-0.16	-8.56		
2862.01	0.290	268.080	2859.83	-62.12	-63.09	11.88	1676308.45	14248775.20	39°14'18.355"N	80°52'23.659"W	64.20	169.334	0.08	0.08	3.64		
2887.01	0.300	262.640	2884.83	-62.08	-63.10	11.75	1676308.32	14248775.18	39°14'18.355"N	80°52'23.661"W	64.19	169.448	0.12	0.04	-21.76		
2912.01	0.270	269.260	2909.83	-62.03	-63.11	11.63	1676308.20	14248775.18	39°14'18.355"N	80°52'23.662"W	64.17	169.559	0.18	-0.12	26.48		
2937.01	0.270	278.900	2934.83	-61.97	-63.10	11.51	1676308.08	14248775.18	39°14'18.355"N	80°52'23.664"W	64.14	169.660	0.18	0.00	38.56		
2962.01	0.290	269.420	2959.82	-61.91	-63.09	11.39	1676307.96	14248775.19	39°14'18.355"N	80°52'23.665"W	64.11	169.766	0.20	0.08	-37.92		
2987.01	0.300	272.010	2984.82	-61.86	-63.09	11.26	1676307.83	14248775.19	39°14'18.355"N	80°52'23.667"W	64.09	169.879	0.07	0.04	10.36		
3012.01	0.340	258.310	3009.82	-61.81	-63.10	11.12	1676307.69	14248775.18	39°14'18.355"N	80°52'23.669"W	64.08	170.002	0.34	0.16	-54.80		
3037.01	0.270	292.060	3034.82	-61.75	-63.10	11.00	1676307.56	14248775.19	39°14'18.355"N	80°52'23.670"W	64.05	170.113	0.76	-0.28	135.00		

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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	
3062.01	0.300	273.750	3059.82	-61.68	-63.07	10.88	1676307.44	14248775.21	39°14'18.356"N	80°52'23.672"W	64.00	170.215	0.38	0.12	-73.24		
3087.01	0.270	316.940	3084.82	-61.59	-63.02	10.77	1676307.34	14248775.26	39°14'18.356"N	80°52'23.673"W	63.94	170.301	0.85	-0.12	172.76		
3112.01	0.160	289.440	3109.82	-61.51	-62.97	10.70	1676307.26	14248775.32	39°14'18.357"N	80°52'23.674"W	63.87	170.357	0.59	-0.44	-110.00		
3137.01	0.210	298.840	3134.82	-61.45	-62.93	10.63	1676307.19	14248775.35	39°14'18.357"N	80°52'23.675"W	63.83	170.417	0.23	0.20	37.60		
3162.01	0.210	303.080	3159.82	-61.37	-62.89	10.55	1676307.11	14248775.40	39°14'18.357"N	80°52'23.676"W	63.77	170.479	0.06	0.00	16.96		
3187.01	0.150	301.720	3184.82	-61.30	-62.85	10.48	1676307.05	14248775.44	39°14'18.358"N	80°52'23.677"W	63.71	170.532	0.24	-0.24	-5.44		
3212.01	0.200	346.420	3209.82	-61.23	-62.79	10.44	1676307.01	14248775.50	39°14'18.358"N	80°52'23.677"W	63.65	170.557	0.56	0.20	178.80		
3237.01	0.150	309.660	3234.82	-61.16	-62.72	10.41	1676306.97	14248775.56	39°14'18.359"N	80°52'23.678"W	63.58	170.579	0.48	-0.20	-147.04		
3262.01	0.150	305.180	3259.82	-61.10	-62.68	10.36	1676306.92	14248775.60	39°14'18.359"N	80°52'23.679"W	63.53	170.619	0.05	0.00	-17.92		
3287.01	0.080	288.430	3284.82	-61.06	-62.66	10.31	1676306.88	14248775.63	39°14'18.360"N	80°52'23.679"W	63.50	170.654	0.31	-0.28	-67.00		
3312.01	0.100	181.740	3309.82	-61.07	-62.67	10.29	1676306.86	14248775.61	39°14'18.360"N	80°52'23.679"W	63.51	170.672	0.58	0.08	-426.76		
3337.01	0.120	195.460	3334.82	-61.11	-62.72	10.29	1676306.85	14248775.56	39°14'18.359"N	80°52'23.679"W	63.56	170.686	0.13	0.08	54.88		
3362.01	0.130	160.330	3359.82	-61.16	-62.77	10.29	1676306.86	14248775.51	39°14'18.359"N	80°52'23.679"W	63.61	170.691	0.30	0.04	-140.52		
3387.01	0.100	173.910	3384.82	-61.20	-62.82	10.30	1676306.87	14248775.46	39°14'18.358"N	80°52'23.679"W	63.66	170.687	0.16	-0.12	54.32		
3412.01	0.090	181.350	3409.82	-61.24	-62.86	10.30	1676306.87	14248775.42	39°14'18.358"N	80°52'23.679"W	63.70	170.692	0.06	-0.04	29.76		
3437.01	0.100	142.450	3434.82	-61.28	-62.90	10.32	1676306.88	14248775.39	39°14'18.357"N	80°52'23.679"W	63.74	170.686	0.26	0.04	-155.60		
3462.01	0.140	202.530	3459.82	-61.32	-62.95	10.32	1676306.88	14248775.34	39°14'18.357"N	80°52'23.679"W	63.79	170.691	0.50	0.16	240.32		
3487.01	0.160	197.260	3484.82	-61.37	-63.01	10.30	1676306.86	14248775.28	39°14'18.356"N	80°52'23.679"W	63.84	170.719	0.10	0.08	-21.08		
3512.01	0.140	192.760	3509.82	-61.42	-63.07	10.28	1676306.84	14248775.21	39°14'18.356"N	80°52'23.680"W	63.90	170.744	0.09	-0.08	-18.00		
3537.01	0.190	193.610	3534.82	-61.48	-63.14	10.26	1676306.83	14248775.14	39°14'18.355"N	80°52'23.680"W	63.97	170.768	0.20	0.20	3.40		
3562.01	0.140	211.160	3559.82	-61.53	-63.21	10.24	1676306.80	14248775.08	39°14'18.354"N	80°52'23.680"W	64.03	170.800	0.28	-0.20	70.20		
3587.01	0.130	202.840	3584.82	-61.56	-63.26	10.21	1676306.78	14248775.03	39°14'18.354"N	80°52'23.680"W	64.08	170.832	0.09	-0.04	-33.28		
3612.01	0.170	195.940	3609.82	-61.61	-63.32	10.19	1676306.75	14248774.96	39°14'18.353"N	80°52'23.681"W	64.14	170.859	0.18	0.16	-27.60		
3637.01	0.140	173.430	3634.82	-61.66	-63.39	10.18	1676306.75	14248774.90	39°14'18.353"N	80°52'23.681"W	64.20	170.874	0.27	-0.12	-90.04		
3662.01	0.160	185.730	3659.82	-61.72	-63.45	10.18	1676306.75	14248774.83	39°14'18.352"N	80°52'23.681"W	64.26	170.883	0.15	0.08	49.20		
3687.01	0.150	151.630	3684.82	-61.79	-63.52	10.19	1676306.76	14248774.77	39°14'18.351"N	80°52'23.681"W	64.33	170.882	0.37	-0.04	-136.40		
3712.01	0.150	139.130	3709.82	-61.85	-63.57	10.23	1676306.80	14248774.72	39°14'18.351"N	80°52'23.680"W	64.39	170.857	0.13	0.00	-50.00		
3737.01	0.150	119.210	3734.82	-61.91	-63.61	10.28	1676306.85	14248774.68	39°14'18.350"N	80°52'23.680"W	64.44	170.819	0.21	0.00	-79.68		
3762.01	0.220	137.050	3759.82	-61.98	-63.66	10.34	1676306.91	14248774.62	39°14'18.350"N	80°52'23.679"W	64.50	170.772	0.36	0.28	71.36		
3787.01	0.230	114.390	3784.82	-62.06	-63.72	10.42	1676306.99	14248774.57	39°14'18.349"N	80°52'23.678"W	64.56	170.712	0.36	0.04	-90.64		

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
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WELLPATH DATA (376 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)	(°)	("/100ft)	("/100ft)	("/100ft)	
3812.01	0.240	124.160	3809.82	-62.15	-63.77	10.51	1676307.08	14248774.52	39°14'18.349"N	80°52'23.677"W	64.63	170.641	0.16	0.04	39.08	
3837.01	0.230	109.600	3834.82	-62.23	-63.81	10.60	1676307.17	14248774.47	39°14'18.348"N	80°52'23.675"W	64.69	170.568	0.24	-0.04	-58.24	
3862.01	0.230	105.780	3859.82	-62.30	-63.84	10.70	1676307.26	14248774.44	39°14'18.348"N	80°52'23.674"W	64.73	170.489	0.06	0.00	-15.28	
3887.01	0.200	114.400	3884.82	-62.36	-63.88	10.78	1676307.35	14248774.41	39°14'18.348"N	80°52'23.673"W	64.78	170.417	0.18	-0.12	34.48	
3912.01	0.240	123.710	3909.82	-62.44	-63.92	10.87	1676307.43	14248774.36	39°14'18.347"N	80°52'23.672"W	64.84	170.352	0.21	0.16	37.24	
3937.01	0.220	130.430	3934.82	-62.53	-63.98	10.95	1676307.51	14248774.30	39°14'18.347"N	80°52'23.671"W	64.91	170.291	0.13	-0.08	26.88	
3962.01	0.210	126.750	3959.82	-62.61	-64.04	11.02	1676307.59	14248774.24	39°14'18.346"N	80°52'23.670"W	64.98	170.236	0.07	-0.04	-14.72	
3987.01	0.250	100.220	3984.82	-62.69	-64.08	11.11	1676307.68	14248774.21	39°14'18.346"N	80°52'23.669"W	65.03	170.163	0.45	0.16	-106.12	
4012.01	0.220	130.750	4009.82	-62.76	-64.12	11.20	1676307.77	14248774.17	39°14'18.345"N	80°52'23.668"W	65.09	170.091	0.51	-0.12	122.12	
4037.01	0.210	127.780	4034.82	-62.85	-64.18	11.27	1676307.84	14248774.11	39°14'18.345"N	80°52'23.667"W	65.16	170.037	0.06	-0.04	-11.88	
4062.01	0.300	155.140	4059.82	-62.95	-64.27	11.34	1676307.90	14248774.02	39°14'18.344"N	80°52'23.666"W	65.26	169.995	0.60	0.36	109.44	
4087.01	0.430	155.750	4084.82	-63.11	-64.41	11.40	1676307.97	14248773.87	39°14'18.342"N	80°52'23.665"W	65.41	169.960	0.52	0.52	2.44	
4112.01	0.470	140.420	4109.82	-63.31	-64.58	11.51	1676308.07	14248773.71	39°14'18.341"N	80°52'23.664"W	65.59	169.896	0.51	0.16	-61.32	
4137.01	0.720	150.370	4134.82	-63.56	-64.79	11.65	1676308.22	14248773.49	39°14'18.339"N	80°52'23.662"W	65.83	169.806	1.08	1.00	39.80	
4162.01	0.690	142.330	4159.81	-63.86	-65.05	11.82	1676308.39	14248773.24	39°14'18.336"N	80°52'23.660"W	66.11	169.701	0.41	-0.12	-32.16	
4187.01	0.700	147.850	4184.81	-64.16	-65.30	11.99	1676308.56	14248772.99	39°14'18.334"N	80°52'23.658"W	66.39	169.592	0.27	0.04	22.08	
4212.01	0.660	142.180	4209.81	-64.46	-65.54	12.16	1676308.73	14248772.75	39°14'18.331"N	80°52'23.656"W	66.66	169.487	0.31	-0.16	-22.68	
4237.01	0.750	145.120	4234.81	-64.76	-65.79	12.34	1676308.91	14248772.50	39°14'18.329"N	80°52'23.653"W	66.93	169.372	0.39	0.36	11.76	
4262.01	0.750	137.930	4259.81	-65.08	-66.04	12.55	1676309.11	14248772.24	39°14'18.326"N	80°52'23.651"W	67.22	169.242	0.38	0.00	-28.76	
4287.01	0.950	145.740	4284.80	-65.44	-66.33	12.77	1676309.34	14248771.95	39°14'18.323"N	80°52'23.648"W	67.55	169.100	0.92	0.80	31.24	
4312.01	1.050	142.130	4309.80	-65.87	-66.69	13.03	1676309.60	14248771.60	39°14'18.320"N	80°52'23.645"W	67.95	168.943	0.47	0.40	-14.44	
4337.01	1.050	144.810	4334.80	-66.31	-67.05	13.30	1676309.87	14248771.23	39°14'18.316"N	80°52'23.641"W	68.36	168.778	0.20	0.00	10.72	
4362.01	1.040	138.320	4359.79	-66.76	-67.41	13.59	1676310.15	14248770.88	39°14'18.313"N	80°52'23.638"W	68.77	168.605	0.47	-0.04	-25.96	
4387.01	1.200	143.870	4384.79	-67.23	-67.79	13.89	1676310.46	14248770.49	39°14'18.309"N	80°52'23.634"W	69.20	168.419	0.77	0.64	22.20	
4412.01	1.360	144.460	4409.78	-67.78	-68.25	14.22	1676310.78	14248770.04	39°14'18.304"N	80°52'23.630"W	69.71	168.231	0.64	0.64	2.36	
4437.01	1.460	145.700	4434.77	-68.39	-68.75	14.57	1676311.13	14248769.54	39°14'18.299"N	80°52'23.625"W	70.28	168.034	0.42	0.40	4.96	
4462.01	1.550	149.070	4459.76	-69.04	-69.30	14.92	1676311.49	14248768.98	39°14'18.294"N	80°52'23.621"W	70.89	167.847	0.50	0.36	13.48	
4487.01	1.430	146.470	4484.76	-69.68	-69.85	15.27	1676311.83	14248768.44	39°14'18.289"N	80°52'23.616"W	71.50	167.669	0.55	-0.48	-10.40	
4512.01	1.530	148.110	4509.75	-70.32	-70.40	15.62	1676312.18	14248767.89	39°14'18.283"N	80°52'23.612"W	72.11	167.490	0.43	0.40	6.56	
4537.01	1.590	150.130	4534.74	-71.00	-70.98	15.97	1676312.53	14248767.31	39°14'18.277"N	80°52'23.607"W	72.75	167.322	0.33	0.24	8.08	

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
4562.01	1.650	152.770	4559.73	-71.71	-71.60	16.31	1676312.87	14248766.69	39°14'18.271"N	80°52'23.603"W	73.43	167.171	0.38	0.24	10.56	
4587.01	1.740	152.200	4584.72	-72.45	-72.26	16.65	1676313.21	14248766.03	39°14'18.265"N	80°52'23.599"W	74.15	167.026	0.37	0.36	-2.28	
4612.01	1.800	154.510	4609.71	-73.22	-72.95	16.99	1676313.56	14248765.34	39°14'18.258"N	80°52'23.594"W	74.90	166.887	0.37	0.24	9.24	
4637.01	1.820	153.910	4634.69	-74.01	-73.66	17.34	1676313.90	14248764.63	39°14'18.251"N	80°52'23.590"W	75.67	166.756	0.11	0.08	-2.40	
4662.01	1.990	155.860	4659.68	-74.84	-74.41	17.69	1676314.25	14248763.88	39°14'18.243"N	80°52'23.586"W	76.48	166.628	0.73	0.68	7.80	
4687.01	2.310	159.030	4684.66	-75.77	-75.28	18.05	1676314.61	14248763.01	39°14'18.235"N	80°52'23.581"W	77.41	166.519	1.37	1.28	12.68	
4712.01	2.170	156.390	4709.64	-76.75	-76.18	18.42	1676314.98	14248762.11	39°14'18.226"N	80°52'23.576"W	78.38	166.410	0.70	-0.56	-10.56	
4737.01	2.270	157.970	4734.62	-77.72	-77.07	18.79	1676315.35	14248761.22	39°14'18.217"N	80°52'23.572"W	79.33	166.298	0.47	0.40	6.32	
4762.01	2.290	157.080	4759.60	-78.71	-77.99	19.17	1676315.73	14248760.30	39°14'18.208"N	80°52'23.567"W	80.31	166.190	0.16	0.08	-3.56	
4787.01	2.430	159.150	4784.58	-79.74	-78.95	19.55	1676316.12	14248759.34	39°14'18.199"N	80°52'23.562"W	81.33	166.088	0.66	0.56	8.28	
4812.01	2.470	159.180	4809.56	-80.80	-79.95	19.94	1676316.50	14248758.34	39°14'18.189"N	80°52'23.557"W	82.40	165.999	0.16	0.16	0.12	
4837.01	2.410	160.270	4834.54	-81.86	-80.95	20.30	1676316.87	14248757.35	39°14'18.179"N	80°52'23.552"W	83.45	165.919	0.30	-0.24	4.36	
4862.01	2.340	158.480	4859.52	-82.90	-81.92	20.67	1676317.23	14248756.38	39°14'18.169"N	80°52'23.548"W	84.48	165.839	0.41	-0.28	-7.16	
4887.01	2.300	159.730	4884.50	-83.91	-82.86	21.03	1676317.59	14248755.43	39°14'18.160"N	80°52'23.543"W	85.49	165.759	0.26	-0.16	5.00	
4912.01	2.400	160.540	4909.47	-84.93	-83.82	21.38	1676317.94	14248754.47	39°14'18.150"N	80°52'23.539"W	86.51	165.693	0.42	0.40	3.24	
4937.01	2.350	160.830	4934.45	-85.96	-84.80	21.72	1676318.28	14248753.49	39°14'18.141"N	80°52'23.534"W	87.54	165.634	0.21	-0.20	1.16	
4962.01	2.330	159.150	4959.43	-86.97	-85.76	22.07	1676318.63	14248752.53	39°14'18.131"N	80°52'23.530"W	88.56	165.569	0.29	-0.08	-6.72	
4987.01	2.370	159.230	4984.41	-87.99	-86.72	22.43	1676318.99	14248751.58	39°14'18.122"N	80°52'23.525"W	89.57	165.496	0.16	0.16	0.32	
5012.01	2.230	157.340	5009.39	-89.00	-87.65	22.80	1676319.37	14248750.64	39°14'18.113"N	80°52'23.521"W	90.57	165.416	0.64	-0.56	-7.56	
5037.01	2.340	158.870	5034.37	-89.99	-88.58	23.18	1676319.74	14248749.72	39°14'18.103"N	80°52'23.516"W	91.56	165.337	0.50	0.44	6.12	
5062.01	2.420	158.450	5059.35	-91.03	-89.54	23.55	1676320.11	14248748.75	39°14'18.094"N	80°52'23.511"W	92.59	165.263	0.33	0.32	-1.68	
5087.01	2.380	158.060	5084.33	-92.07	-90.52	23.94	1676320.50	14248747.78	39°14'18.084"N	80°52'23.506"W	93.63	165.184	0.17	-0.16	-1.56	
5112.01	2.740	160.990	5109.30	-93.18	-91.56	24.33	1676320.89	14248746.73	39°14'18.074"N	80°52'23.501"W	94.74	165.119	1.53	1.44	11.72	
5137.01	2.700	157.600	5134.27	-94.37	-92.67	24.75	1676321.31	14248745.63	39°14'18.063"N	80°52'23.496"W	95.92	165.047	0.66	-0.16	-13.56	
5162.01	2.670	158.300	5159.25	-95.53	-93.76	25.19	1676321.75	14248744.54	39°14'18.052"N	80°52'23.491"W	97.08	164.962	0.18	-0.12	2.80	
5187.01	2.640	158.690	5184.22	-96.69	-94.83	25.61	1676322.17	14248743.46	39°14'18.041"N	80°52'23.485"W	98.23	164.886	0.14	-0.12	1.56	
5212.01	2.510	156.580	5209.19	-97.81	-95.87	26.04	1676322.60	14248742.43	39°14'18.031"N	80°52'23.480"W	99.35	164.804	0.64	-0.52	-8.44	
5237.01	2.400	157.420	5234.17	-98.88	-96.86	26.46	1676323.02	14248741.44	39°14'18.021"N	80°52'23.474"W	100.41	164.721	0.46	-0.44	3.36	
5262.01	2.350	157.100	5259.15	-99.92	-97.81	26.86	1676323.42	14248740.48	39°14'18.012"N	80°52'23.469"W	101.44	164.645	0.21	-0.20	-1.28	
5287.01	2.440	159.070	5284.13	-100.96	-98.78	27.25	1676323.81	14248739.52	39°14'18.002"N	80°52'23.464"W	102.47	164.579	0.49	0.36	7.88	

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Actual Wellpath Report

Mary Jane Unit 2H AWP Proj: 18063'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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
5312.01	2.330	159.790	5309.11	-102.00	-99.76	27.61	1676324.17	14248738.54	39°14'17.993"N	80°52'23.460"W	103.51	164.527	0.46	-0.44	2.88	
5337.01	2.510	157.880	5334.08	-103.05	-100.74	28.00	1676324.56	14248737.56	39°14'17.983"N	80°52'23.455"W	104.56	164.469	0.79	0.72	-7.64	
5362.01	2.410	157.530	5359.06	-104.12	-101.73	28.40	1676324.96	14248736.57	39°14'17.973"N	80°52'23.450"W	105.62	164.401	0.40	-0.40	-1.40	
5387.01	2.340	156.430	5384.04	-105.16	-102.69	28.81	1676325.37	14248735.61	39°14'17.964"N	80°52'23.445"W	106.65	164.329	0.33	-0.28	-4.40	
5412.01	2.430	158.310	5409.02	-106.20	-103.65	29.21	1676325.77	14248734.65	39°14'17.954"N	80°52'23.440"W	107.69	164.262	0.48	0.36	7.52	
5437.01	2.430	156.790	5434.00	-107.25	-104.63	29.61	1676326.17	14248733.67	39°14'17.945"N	80°52'23.435"W	108.74	164.197	0.26	0.00	-6.08	
5462.01	2.360	159.350	5458.97	-108.30	-105.60	30.00	1676326.56	14248732.71	39°14'17.935"N	80°52'23.430"W	109.78	164.138	0.51	-0.28	10.24	
5487.01	2.360	157.240	5483.95	-109.32	-106.55	30.38	1676326.94	14248731.75	39°14'17.926"N	80°52'23.425"W	110.80	164.084	0.35	0.00	-8.44	
5512.01	2.240	159.520	5508.93	-110.32	-107.49	30.75	1676327.31	14248730.82	39°14'17.916"N	80°52'23.420"W	111.80	164.033	0.60	-0.48	9.12	
5537.01	2.450	162.640	5533.91	-111.34	-108.45	31.08	1676327.64	14248729.85	39°14'17.907"N	80°52'23.416"W	112.82	164.007	0.98	0.84	12.48	
5562.01	2.290	158.510	5558.89	-112.37	-109.43	31.43	1676327.98	14248728.88	39°14'17.897"N	80°52'23.412"W	113.85	163.976	0.94	-0.64	-16.52	
5572.01	2.360	157.640	5568.88	-112.77	-109.80	31.58	1676328.14	14248728.50	39°14'17.893"N	80°52'23.410"W	114.25	163.955	0.78	0.70	-8.70	
5668.00	2.660	158.780	5664.78	-116.97	-113.71	33.14	1676329.69	14248724.60	39°14'17.855"N	80°52'23.390"W	118.44	163.753	0.32	0.31	1.19	BHI AT Curve <8-1/2"> (5572.01')(5668'-18038')
5715.00	2.940	160.030	5711.72	-119.26	-115.86	33.94	1676330.50	14248722.45	39°14'17.834"N	80°52'23.380"W	120.73	163.671	0.61	0.60	2.66	
5763.00	3.900	102.390	5759.65	-121.48	-117.37	35.96	1676332.51	14248720.94	39°14'17.819"N	80°52'23.354"W	122.75	162.966	7.09	2.00	-120.08	
5809.00	7.900	78.720	5805.40	-123.20	-117.08	40.59	1676337.14	14248721.22	39°14'17.821"N	80°52'23.295"W	123.92	160.880	10.00	8.70	-51.46	
5858.00	10.800	72.880	5853.75	-124.67	-115.07	48.28	1676344.83	14248723.23	39°14'17.841"N	80°52'23.197"W	124.79	157.239	6.22	5.92	-11.92	
5908.00	15.110	75.860	5902.46	-126.59	-112.10	59.08	1676355.63	14248726.21	39°14'17.870"N	80°52'23.060"W	126.72	152.209	8.72	8.62	5.96	
5952.00	18.710	76.730	5944.56	-129.17	-109.08	71.52	1676368.06	14248729.23	39°14'17.900"N	80°52'22.902"W	130.43	146.749	8.20	8.18	1.98	
6000.00	24.200	74.270	5989.21	-132.41	-104.64	88.49	1676385.03	14248733.66	39°14'17.944"N	80°52'22.686"W	137.04	139.779	11.59	11.44	-5.12	
6046.00	29.240	73.340	6030.29	-135.66	-98.86	108.34	1676404.87	14248739.44	39°14'18.001"N	80°52'22.434"W	146.67	132.379	10.99	10.96	-2.02	
6088.00	33.880	72.430	6066.07	-138.77	-92.38	129.34	1676425.86	14248745.92	39°14'18.064"N	80°52'22.167"W	158.95	125.536	11.11	11.05	-2.17	
6141.00	38.380	72.360	6108.86	-142.94	-82.93	159.12	1676455.63	14248755.36	39°14'18.157"N	80°52'21.788"W	179.43	117.528	8.49	8.49	-0.13	
6187.00	43.060	71.960	6143.72	-146.82	-73.73	187.68	1676484.17	14248764.55	39°14'18.248"N	80°52'21.425"W	201.64	111.449	10.19	10.17	-0.87	
6235.00	47.450	71.170	6177.50	-150.87	-62.95	220.01	1676516.49	14248775.34	39°14'18.354"N	80°52'21.014"W	228.84	105.967	9.22	9.15	-1.65	
6283.00	52.380	69.690	6208.40	-154.51	-50.64	254.59	1676551.06	14248787.64	39°14'18.475"N	80°52'20.574"W	259.58	101.249	10.54	10.27	-3.08	
6330.00	57.120	67.300	6235.52	-157.01	-36.55	290.28	1676586.73	14248801.73	39°14'18.614"N	80°52'20.120"W	292.57	97.176	10.91	10.09	-5.09	
6377.00	58.680	61.140	6260.51	-156.65	-19.23	326.10	1676622.53	14248819.04	39°14'18.785"N	80°52'19.665"W	326.66	93.375	11.59	3.32	-13.11	
6424.00	59.650	55.430	6284.62	-152.12	1.98	360.40	1676656.82	14248840.24	39°14'18.994"N	80°52'19.229"W	360.40	89.685	10.63	2.06	-12.15	
6473.00	59.900	52.090	6309.29	-144.07	27.01	394.54	1676690.95	14248865.25	39°14'19.241"N	80°52'18.794"W	395.46	86.084	5.91	0.51	-6.82	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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)	(°)	(°/100ft)	(°/100ft)	(°/100ft)		
6507.00†	59.932	48.818	6326.33	-136.82	45.73	417.22	1676713.62	14248883.97	39°14'19.425"N	80°52'18.506"W	419.72	83.745	8.33	0.09	-9.62	Middlesex: 6507' MD / 6326.3' TVD	
6518.00	59.960	47.760	6331.84	-134.12	52.07	424.33	1676720.73	14248890.31	39°14'19.488"N	80°52'18.415"W	427.51	83.004	8.33	0.25	-9.62		
6565.00	60.120	40.010	6355.34	-119.66	81.38	452.52	1676748.91	14248919.61	39°14'19.777"N	80°52'18.056"W	459.78	79.805	14.29	0.34	-16.49		
6613.00	61.770	36.100	6378.66	-100.82	114.42	478.37	1676774.75	14248952.63	39°14'20.103"N	80°52'17.727"W	491.86	76.548	7.91	3.44	-8.15		
6659.00	63.820	31.110	6399.70	-79.68	148.49	500.99	1676797.36	14248986.69	39°14'20.440"N	80°52'17.439"W	522.53	73.491	10.63	4.46	-10.85		
6708.00	64.930	23.270	6420.92	-52.78	187.75	521.14	1676817.50	14249025.93	39°14'20.828"N	80°52'17.182"W	553.93	70.188	14.60	2.27	-16.00		
6755.00	66.690	15.940	6440.20	-22.42	228.10	535.49	1676831.85	14249066.27	39°14'21.226"N	80°52'16.999"W	582.05	66.927	14.71	3.74	-15.60		
6771.00†	67.476	13.906	6446.43	-11.16	242.34	539.29	1676835.64	14249080.51	39°14'21.367"N	80°52'16.951"W	591.24	65.802	12.70	4.91	-12.72	Burkett: 6771' MD / 6446.4' TVD	
6802.00	69.070	10.030	6457.91	11.76	270.51	545.25	1676841.60	14249108.66	39°14'21.645"N	80°52'16.874"W	608.67	63.613	12.70	5.14	-12.50		
6853.00	72.370	4.890	6474.75	52.24	318.22	551.48	1676847.83	14249156.35	39°14'22.117"N	80°52'16.794"W	636.70	60.014	11.50	6.47	-10.08		
6855.00†	72.498	4.749	6475.36	53.89	320.12	551.64	1676847.99	14249158.25	39°14'22.135"N	80°52'16.792"W	637.79	59.873	9.29	6.42	-7.05	Tully: 6855' MD / 6475.5' TVD	
6896.00	75.150	1.900	6486.78	88.45	359.42	553.91	1676850.26	14249197.54	39°14'22.524"N	80°52'16.763"W	660.31	57.022	9.29	6.47	-6.95		
6932.00†	76.734	357.599	6495.53	120.09	394.33	553.76	1676850.10	14249232.43	39°14'22.869"N	80°52'16.764"W	679.81	54.545	12.39	4.40	-11.95	Hamilton: 6932' MD / 6495.5' TVD	
6939.00	77.050	356.770	6497.12	126.39	401.14	553.42	1676849.77	14249239.24	39°14'22.936"N	80°52'16.768"W	683.51	54.064	12.39	4.52	-11.85		
6959.00†	77.921	354.601	6501.45	144.62	420.61	551.95	1676848.30	14249258.70	39°14'23.129"N	80°52'16.787"W	693.95	52.691	11.45	4.36	-10.84	Marcellus: 6959' MD / 6501.5' TVD	
6991.00	79.350	351.160	6507.76	174.43	451.73	548.06	1676844.41	14249289.81	39°14'23.436"N	80°52'16.835"W	710.24	50.503	11.45	4.46	-10.75		
7035.00	83.030	345.930	6514.50	216.63	494.32	539.42	1676835.78	14249332.38	39°14'23.857"N	80°52'16.944"W	731.66	47.498	14.42	8.36	-11.89		
7085.00	85.930	340.310	6519.31	265.84	541.92	524.97	1676821.33	14249379.96	39°14'24.328"N	80°52'17.127"W	754.50	44.090	12.60	5.80	-11.24		
7130.00	89.050	337.630	6521.28	310.66	583.87	508.84	1676805.21	14249421.90	39°14'24.743"N	80°52'17.332"W	774.49	41.072	9.14	6.93	-5.96		
7179.00	88.860	335.080	6522.18	359.63	628.75	489.19	1676785.57	14249466.76	39°14'25.187"N	80°52'17.580"W	796.64	37.885	5.22	-0.39	-5.20		
7274.00	89.780	333.380	6523.31	454.61	714.29	447.90	1676744.29	14249552.26	39°14'26.033"N	80°52'18.104"W	843.10	32.090	2.03	0.97	-1.79		
7369.00	89.570	332.060	6523.84	549.55	798.72	404.36	1676700.76	14249636.66	39°14'26.868"N	80°52'18.656"W	895.24	26.851	1.41	-0.22	-1.39		
7463.00	89.690	330.830	6524.45	643.39	881.28	359.43	1676655.85	14249719.19	39°14'27.685"N	80°52'19.225"W	951.76	22.188	1.31	0.13	-1.31		
7558.00	89.660	332.150	6524.99	738.24	964.76	314.08	1676610.53	14249802.63	39°14'28.510"N	80°52'19.800"W	1014.60	18.033	1.39	-0.03	1.39		
7652.00	89.630	330.940	6525.57	832.09	1047.40	269.30	1676565.76	14249885.24	39°14'29.328"N	80°52'20.368"W	1081.47	14.419	1.29	-0.03	-1.29		
7747.00	89.600	331.640	6526.21	926.92	1130.72	223.66	1676520.14	14249968.53	39°14'30.152"N	80°52'20.946"W	1152.63	11.189	0.74	-0.03	0.74		
7842.00	89.630	332.970	6526.85	1021.83	1214.83	179.51	1676476.01	14250052.61	39°14'30.984"N	80°52'21.506"W	1228.02	8.406	1.40	0.03	1.40		
7936.00	89.600	335.700	6527.48	1115.82	1299.55	138.80	1676435.32	14250137.29	39°14'31.822"N	80°52'22.022"W	1306.94	6.097	2.90	-0.03	2.90		
8031.00	89.600	337.920	6528.14	1210.75	1386.86	101.40	1676397.93	14250224.57	39°14'32.685"N	80°52'22.496"W	1390.57	4.182	2.34	0.00	2.34		
8125.00	89.690	336.580	6528.73	1304.65	1473.55	65.05	1676361.59	14250311.22	39°14'33.543"N	80°52'22.956"W	1474.98	2.528	1.43	0.10	-1.43		

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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
8220.00	89.690	332.890	6529.24	1399.63	1559.44	24.51	1676321.07	14250397.08	39°14'34.392"N	80°52'23.470"W	1559.64	0.900	3.88	0.00	-3.88	
8314.00	89.690	330.280	6529.75	1493.48	1642.11	-20.22	1676276.36	14250479.71	39°14'35.210"N	80°52'24.037"W	1642.24	359.295	2.78	0.00	-2.78	
8409.00	89.690	331.110	6530.26	1588.25	1724.95	-66.71	1676229.88	14250562.52	39°14'36.029"N	80°52'24.626"W	1726.24	357.785	0.87	0.00	0.87	
8503.00	89.660	334.050	6530.80	1682.17	1808.38	-110.00	1676186.62	14250645.92	39°14'36.854"N	80°52'25.175"W	1811.72	356.519	3.13	-0.03	3.13	
8598.00	89.780	337.510	6531.26	1777.14	1895.00	-148.96	1676147.67	14250732.51	39°14'37.711"N	80°52'25.669"W	1900.85	355.505	3.64	0.13	3.64	
8692.00	89.600	335.550	6531.77	1871.08	1981.22	-186.40	1676110.25	14250818.69	39°14'38.564"N	80°52'26.143"W	1989.97	354.625	2.09	-0.19	-2.09	
8787.00	90.220	331.470	6531.92	1966.04	2066.23	-228.76	1676067.90	14250903.66	39°14'39.405"N	80°52'26.680"W	2078.85	353.682	4.34	0.65	-4.29	
8882.00	89.450	329.270	6532.19	2060.76	2148.80	-275.73	1676020.95	14250986.20	39°14'40.221"N	80°52'27.275"W	2166.42	352.688	2.45	-0.81	-2.32	
8976.00	90.400	334.490	6532.32	2154.61	2231.68	-320.01	1675976.68	14251069.04	39°14'41.041"N	80°52'27.837"W	2254.50	351.840	5.64	1.01	5.55	
9071.00	90.000	336.850	6531.98	2249.59	2318.23	-359.15	1675937.56	14251155.56	39°14'41.897"N	80°52'28.333"W	2345.89	351.194	2.52	-0.42	2.48	
9165.00	90.280	334.920	6531.75	2343.57	2404.02	-397.55	1675899.18	14251241.32	39°14'42.746"N	80°52'28.819"W	2436.67	350.610	2.07	0.30	-2.05	
9260.00	90.280	329.220	6531.29	2438.43	2487.92	-442.03	1675854.71	14251325.19	39°14'43.575"N	80°52'29.383"W	2526.89	349.925	6.00	0.00	-6.00	
9354.00	90.030	336.230	6531.04	2532.31	2571.42	-485.08	1675811.68	14251408.65	39°14'44.401"N	80°52'29.929"W	2616.77	349.317	7.46	-0.27	7.46	
9448.00	90.340	341.580	6530.73	2626.02	2659.09	-518.90	1675777.88	14251496.28	39°14'45.268"N	80°52'30.357"W	2709.24	348.958	5.70	0.33	5.69	
9543.00	90.430	342.330	6530.09	2720.26	2749.41	-548.33	1675748.46	14251586.57	39°14'46.161"N	80°52'30.730"W	2803.56	348.721	0.80	0.09	0.79	
9637.00	90.400	340.660	6529.41	2813.60	2838.55	-578.16	1675718.64	14251675.67	39°14'47.043"N	80°52'31.107"W	2896.83	348.487	1.78	-0.03	-1.78	
9731.00	90.400	337.580	6528.76	2907.31	2926.36	-611.66	1675685.16	14251763.45	39°14'47.911"N	80°52'31.532"W	2989.60	348.194	3.28	0.00	-3.28	
9826.00	90.680	335.050	6527.86	3002.26	3013.35	-649.82	1675647.01	14251850.40	39°14'48.771"N	80°52'32.015"W	3082.62	347.831	2.68	0.29	-2.66	
9920.00	90.490	334.000	6526.90	3096.26	3098.20	-690.24	1675606.60	14251935.22	39°14'49.611"N	80°52'32.527"W	3174.16	347.440	1.14	-0.20	-1.12	
10015.00	89.940	334.570	6526.54	3191.25	3183.79	-731.46	1675565.40	14252020.78	39°14'50.457"N	80°52'33.050"W	3266.74	347.061	0.83	-0.58	0.60	
10109.00	89.820	335.460	6526.74	3285.25	3269.00	-771.17	1675525.71	14252105.95	39°14'51.300"N	80°52'33.553"W	3358.72	346.726	0.96	-0.13	0.95	
10203.00	89.850	333.770	6527.01	3379.25	3353.92	-811.46	1675485.43	14252190.83	39°14'52.140"N	80°52'34.064"W	3450.68	346.399	1.80	0.03	-1.80	
10298.00	88.920	330.670	6528.03	3474.14	3437.95	-855.73	1675441.18	14252274.83	39°14'52.971"N	80°52'34.625"W	3542.85	346.023	3.41	-0.98	-3.26	
10392.00	89.910	332.880	6528.99	3568.00	3520.76	-900.18	1675396.75	14252357.61	39°14'53.790"N	80°52'35.189"W	3634.02	345.658	2.58	1.05	2.35	
10486.00	89.510	333.280	6529.47	3661.96	3604.58	-942.74	1675354.21	14252441.39	39°14'54.619"N	80°52'35.728"W	3725.82	345.343	0.60	-0.43	0.43	
10581.00	89.260	332.480	6530.49	3756.91	3689.13	-986.04	1675310.92	14252525.91	39°14'55.455"N	80°52'36.277"W	3818.63	345.036	0.88	-0.26	-0.84	
10675.00	90.550	337.260	6530.64	3850.88	3774.20	-1025.95	1675271.03	14252610.95	39°14'56.297"N	80°52'36.783"W	3911.16	344.793	5.27	1.37	5.09	
10770.00	90.520	341.980	6529.76	3945.50	3863.23	-1059.02	1675237.97	14252699.94	39°14'57.177"N	80°52'37.202"W	4005.75	344.670	4.97	-0.03	4.97	
10864.00	90.550	343.800	6528.88	4038.54	3953.06	-1086.67	1675210.33	14252789.73	39°14'58.065"N	80°52'37.552"W	4099.70	344.629	1.94	0.03	1.94	
10958.00	90.950	346.690	6527.65	4130.94	4043.94	-1110.61	1675186.40	14252880.58	39°14'58.964"N	80°52'37.854"W	4193.67	344.643	3.10	0.43	3.07	

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Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
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WELLPATH DATA (376 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
11053.00	91.020	336.860	6526.01	4225.09	4134.05	-1140.28	1675156.75	14252970.65	39°14'59.855"N	80°52'38.230"W	4288.43	344.580	10.35	0.07	-10.35	
11147.00	92.340	327.660	6523.25	4318.86	4217.12	-1183.97	1675113.08	14253053.69	39°15'00.676"N	80°52'38.784"W	4380.17	344.318	9.88	1.40	-9.79	
11242.00	90.890	325.260	6520.57	4412.83	4296.26	-1236.43	1675060.64	14253132.80	39°15'01.459"N	80°52'39.449"W	4470.64	343.945	2.95	-1.53	-2.53	
11336.00	90.890	327.500	6519.11	4505.81	4374.53	-1288.47	1675008.62	14253211.03	39°15'02.234"N	80°52'40.109"W	4560.33	343.588	2.38	0.00	2.38	
11430.00	90.830	331.810	6517.70	4599.41	4455.62	-1335.94	1674961.17	14253292.10	39°15'03.036"N	80°52'40.712"W	4651.59	343.310	4.59	-0.06	4.59	
11525.00	90.920	334.950	6516.25	4694.37	4540.53	-1378.49	1674918.63	14253376.97	39°15'03.875"N	80°52'41.251"W	4745.17	343.112	3.31	0.09	3.31	
11619.00	90.920	336.420	6514.74	4788.34	4626.18	-1417.19	1674879.94	14253462.58	39°15'04.723"N	80°52'41.742"W	4838.38	342.968	1.56	0.00	1.56	
11714.00	90.890	336.520	6513.24	4883.28	4713.27	-1455.12	1674842.04	14253549.64	39°15'05.584"N	80°52'42.222"W	4932.77	342.843	0.11	-0.03	0.11	
11808.00	90.990	335.220	6511.70	4977.25	4799.04	-1493.54	1674803.63	14253635.38	39°15'06.432"N	80°52'42.709"W	5026.08	342.713	1.39	0.11	-1.38	
11903.00	91.200	332.930	6509.88	5072.22	4884.46	-1535.06	1674762.12	14253720.76	39°15'07.277"N	80°52'43.235"W	5120.00	342.553	2.42	0.22	-2.41	
11997.00	90.980	332.940	6508.09	5166.16	4968.15	-1577.82	1674719.38	14253804.42	39°15'08.105"N	80°52'43.778"W	5212.68	342.381	0.23	-0.23	0.01	
12092.00	91.110	335.490	6506.36	5261.13	5053.67	-1619.14	1674678.08	14253889.91	39°15'08.950"N	80°52'44.301"W	5306.71	342.235	2.69	0.14	2.68	
12186.00	90.490	335.350	6505.05	5355.11	5139.14	-1658.23	1674639.00	14253975.34	39°15'09.796"N	80°52'44.797"W	5400.05	342.117	0.68	-0.66	-0.15	
12280.00	90.830	334.580	6503.96	5449.10	5224.30	-1698.01	1674599.24	14254060.47	39°15'10.638"N	80°52'45.301"W	5493.32	341.995	0.90	0.36	-0.82	
12374.00	91.010	334.680	6502.45	5543.09	5309.23	-1738.28	1674558.99	14254145.36	39°15'11.478"N	80°52'45.811"W	5586.55	341.871	0.22	0.19	0.11	
12469.00	90.620	333.810	6501.10	5638.08	5394.78	-1779.55	1674517.73	14254230.88	39°15'12.324"N	80°52'46.335"W	5680.71	341.744	1.00	-0.41	-0.92	
12563.00	91.420	332.810	6499.43	5732.03	5478.75	-1821.77	1674475.53	14254314.82	39°15'13.155"N	80°52'46.870"W	5773.69	341.607	1.36	0.85	-1.06	
12657.00	91.690	336.890	6496.88	5825.98	5563.79	-1861.69	1674435.62	14254399.82	39°15'13.996"N	80°52'47.376"W	5867.00	341.499	4.35	0.29	4.34	
12752.00	92.000	335.120	6493.82	5920.90	5650.53	-1900.30	1674397.03	14254486.53	39°15'14.853"N	80°52'47.865"W	5961.52	341.412	1.89	0.33	-1.86	
12846.00	91.880	335.060	6490.64	6014.84	5735.74	-1939.87	1674357.47	14254571.70	39°15'15.696"N	80°52'48.367"W	6054.90	341.314	0.14	-0.13	-0.06	
12941.00	92.430	337.060	6487.06	6109.75	5822.50	-1978.39	1674318.97	14254658.43	39°15'16.554"N	80°52'48.855"W	6149.43	341.233	2.18	0.58	2.11	
13035.00	92.400	334.640	6483.10	6203.64	5908.19	-2016.82	1674280.56	14254744.08	39°15'17.402"N	80°52'49.342"W	6242.94	341.152	2.57	-0.03	-2.57	
13130.00	92.460	331.660	6479.07	6298.51	5992.86	-2059.68	1674237.72	14254828.72	39°15'18.239"N	80°52'49.886"W	6336.93	341.033	3.13	0.06	-3.14	
13224.00	91.050	330.280	6476.19	6392.26	6075.01	-2105.27	1674192.14	14254910.84	39°15'19.052"N	80°52'50.464"W	6429.46	340.886	2.10	-1.50	-1.47	
13319.00	91.380	330.810	6474.18	6486.98	6157.71	-2151.98	1674145.46	14254993.50	39°15'19.870"N	80°52'51.056"W	6522.91	340.737	0.66	0.35	0.56	
13413.00	91.510	334.520	6471.81	6580.87	6241.17	-2195.12	1674102.33	14255076.93	39°15'20.695"N	80°52'51.603"W	6615.95	340.622	3.95	0.14	3.95	
13508.00	91.050	333.210	6469.69	6675.84	6326.44	-2236.95	1674060.51	14255162.16	39°15'21.538"N	80°52'52.134"W	6710.27	340.527	1.46	-0.48	-1.38	
13602.00	90.000	331.050	6468.83	6769.73	6409.52	-2280.89	1674016.59	14255245.22	39°15'22.360"N	80°52'52.691"W	6803.27	340.411	2.55	-1.12	-2.30	
13696.00	90.920	335.030	6468.07	6863.67	6493.29	-2323.50	1673974.00	14255328.95	39°15'23.189"N	80°52'53.231"W	6896.48	340.311	4.35	0.98	4.23	
13791.00	90.340	337.040	6467.03	6958.63	6580.09	-2362.08	1673935.44	14255415.71	39°15'24.047"N	80°52'53.720"W	6991.21	340.253	2.20	-0.61	2.12	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

WELLPATH DATA (376 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]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
13885.00	89.600	337.380	6467.08	7052.54	6666.75	-2398.49	1673899.04	14255502.34	39°15'24.904"N	80°52'54.181"W	7085.08	340.213	0.87	-0.79	0.36	
13980.00	89.910	339.210	6467.48	7147.35	6755.01	-2433.62	1673863.92	14255590.56	39°15'25.777"N	80°52'54.627"W	7180.02	340.187	1.95	0.33	1.93	
14074.00	90.120	337.470	6467.46	7241.16	6842.37	-2468.32	1673829.24	14255677.89	39°15'26.641"N	80°52'55.066"W	7273.97	340.164	1.86	0.22	-1.85	
14169.00	89.600	332.440	6467.69	7336.13	6928.41	-2508.52	1673789.06	14255763.89	39°15'27.492"N	80°52'55.576"W	7368.55	340.097	5.32	-0.55	-5.29	
14263.00	89.630	331.040	6468.32	7430.00	7011.20	-2553.02	1673744.57	14255846.65	39°15'28.310"N	80°52'56.140"W	7461.56	339.992	1.49	0.03	-1.49	
14358.00	89.660	334.140	6468.91	7524.92	7095.52	-2596.75	1673700.86	14255930.94	39°15'29.144"N	80°52'56.695"W	7555.76	339.899	3.26	0.03	3.26	
14453.00	89.940	334.580	6469.24	7619.92	7181.17	-2637.86	1673659.77	14256016.55	39°15'29.991"N	80°52'57.216"W	7650.32	339.830	0.55	0.29	0.46	
14547.00	90.250	334.500	6469.09	7713.92	7266.04	-2678.27	1673619.38	14256101.39	39°15'30.831"N	80°52'57.728"W	7743.93	339.766	0.34	0.33	-0.09	
14642.00	90.580	331.290	6468.40	7808.85	7350.59	-2721.54	1673576.12	14256185.91	39°15'31.667"N	80°52'58.277"W	7838.24	339.683	3.40	0.35	-3.38	
14736.00	90.650	341.280	6467.39	7902.69	7436.54	-2759.30	1673538.38	14256271.82	39°15'32.517"N	80°52'58.756"W	7931.95	339.643	10.63	0.07	10.63	
14831.00	91.050	338.380	6465.98	7997.29	7525.69	-2792.05	1673505.64	14256360.94	39°15'33.399"N	80°52'59.170"W	8026.93	339.645	3.08	0.42	-3.05	
14925.00	90.980	330.130	6464.31	8091.20	7610.28	-2832.84	1673464.87	14256445.49	39°15'34.235"N	80°52'59.688"W	8120.42	339.583	8.78	-0.07	-8.78	
15020.00	90.890	329.610	6462.76	8185.84	7692.43	-2880.52	1673417.21	14256527.61	39°15'35.048"N	80°53'00.292"W	8214.07	339.471	0.56	-0.09	-0.55	
15114.00	91.020	330.070	6461.19	8279.49	7773.69	-2927.74	1673370.00	14256608.84	39°15'35.852"N	80°53'00.891"W	8306.74	339.363	0.51	0.14	0.49	
15209.00	90.890	332.870	6459.61	8374.31	7857.14	-2973.10	1673324.66	14256692.25	39°15'36.677"N	80°53'01.467"W	8400.83	339.274	2.95	-0.14	2.95	
15303.00	90.980	339.440	6458.07	8468.22	7943.06	-3011.08	1673286.70	14256778.13	39°15'37.527"N	80°53'01.948"W	8494.63	339.239	6.99	0.10	6.99	
15397.00	91.290	337.310	6456.21	8562.00	8030.42	-3045.71	1673252.08	14256865.46	39°15'38.390"N	80°53'02.387"W	8588.59	339.230	2.29	0.33	-2.27	
15491.00	91.260	335.870	6454.12	8655.93	8116.66	-3083.05	1673214.76	14256951.66	39°15'39.243"N	80°53'02.860"W	8682.47	339.201	1.53	-0.03	-1.53	
15586.00	91.260	334.510	6452.03	8750.90	8202.86	-3122.90	1673174.92	14257037.84	39°15'40.096"N	80°53'03.366"W	8777.21	339.158	1.43	0.00	-1.43	
15680.00	91.140	333.350	6450.06	8844.87	8287.28	-3164.20	1673133.64	14257122.22	39°15'40.931"N	80°53'03.889"W	8870.81	339.102	1.24	-0.13	-1.23	
15774.00	91.260	337.170	6448.09	8938.83	8372.62	-3203.52	1673094.33	14257207.53	39°15'41.775"N	80°53'04.388"W	8964.56	339.062	4.06	0.13	4.06	
15868.00	90.950	336.440	6446.28	9032.75	8459.00	-3240.54	1673057.33	14257293.88	39°15'42.629"N	80°53'04.857"W	9058.47	339.039	0.84	-0.33	-0.78	
15963.00	90.990	334.350	6444.67	9127.72	8545.36	-3280.08	1673017.80	14257380.20	39°15'43.483"N	80°53'05.358"W	9153.26	339.001	2.20	0.04	-2.20	
16057.00	91.050	333.720	6443.00	9221.70	8629.86	-3321.23	1672976.67	14257464.66	39°15'44.319"N	80°53'05.880"W	9246.89	338.951	0.67	0.06	-0.67	
16151.00	91.110	333.950	6441.22	9315.67	8714.21	-3362.68	1672935.24	14257548.98	39°15'45.153"N	80°53'06.406"W	9340.51	338.899	0.25	0.06	0.24	
16245.00	91.020	335.400	6439.48	9409.65	8799.16	-3402.88	1672895.06	14257633.90	39°15'45.993"N	80°53'06.915"W	9434.24	338.857	1.55	-0.10	1.54	
16339.00	90.990	335.530	6437.83	9503.63	8884.66	-3441.90	1672856.04	14257719.36	39°15'46.839"N	80°53'07.410"W	9528.06	338.824	0.14	-0.03	0.14	
16435.00	91.020	336.320	6436.14	9599.59	8972.29	-3481.06	1672816.91	14257806.96	39°15'47.705"N	80°53'07.907"W	9623.92	338.795	0.82	0.03	0.82	
16529.00	90.980	334.460	6434.50	9693.57	9057.74	-3520.20	1672777.78	14257892.37	39°15'48.550"N	80°53'08.403"W	9717.74	338.762	1.98	-0.04	-1.98	
16623.00	90.950	332.510	6432.92	9787.53	9141.84	-3562.15	1672735.84	14257976.43	39°15'49.382"N	80°53'08.935"W	9811.33	338.711	2.07	-0.03	-2.07	

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	James Webb Pad
Slot	Slot #08
Well	Mary Jane Unit 2H
Wellbore	Mary Jane Unit 2H AWP

WELLPATH DATA (376 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
(m)	(°)	(°)	(m)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(m)	(m)	(ft)	(°)	(ft/100ft)	(ft/100ft)	(ft/100ft)	
16718.00	90.980	329.720	9882.32	9225.00	-608.03	1672689.98	14258059.56	39°15'50.204"N	80°53'09.517"W	9905.48	338.639	2.94	0.03	-2.94	3.85	
16813.00	90.890	333.380	6429.77	9977.14	9308.50	-3653.28	1672644.76	14258143.03	39°15'51.030"N	80°53'10.091"W	9999.73	338.572	3.85	-0.09	3.85	
16908.00	90.950	335.500	6428.24	10072.12	9394.19	-3694.26	1672603.79	14258228.68	39°15'51.878"N	80°53'10.610"W	10094.47	338.533	2.23	0.06	2.23	
17002.00	90.980	335.710	6426.66	10166.10	9479.78	-3733.08	1672564.99	14258314.24	39°15'52.724"N	80°53'11.103"W	10188.33	338.506	0.23	0.03	0.22	
17097.00	90.980	337.170	6425.04	10261.04	9566.85	-3771.04	1672527.04	14258401.28	39°15'53.685"N	80°53'11.584"W	10283.25	338.487	1.54	0.00	1.54	
17192.00	90.740	338.230	6423.61	10355.90	9654.73	-3807.08	1672491.01	14258489.12	39°15'54.454"N	80°53'12.041"W	10378.23	338.480	1.14	-0.25	1.12	
17286.00	90.770	336.430	6422.37	10449.79	9741.46	-3843.31	1672454.80	14258575.82	39°15'55.312"N	80°53'12.500"W	10472.20	338.469	1.91	0.03	-1.91	
17380.00	90.740	335.270	6421.13	10543.76	9827.22	-3881.76	1672416.36	14258661.55	39°15'56.160"N	80°53'12.987"W	10566.10	338.446	1.23	-0.03	-1.23	
17476.00	90.800	335.980	6419.84	10639.74	9914.66	-3921.38	1672376.76	14258748.95	39°15'57.025"N	80°53'13.490"W	10661.97	338.421	0.74	0.06	0.74	
17571.00	91.020	336.440	6418.33	10734.70	10001.57	-3959.70	1672338.46	14258835.83	39°15'57.884"N	80°53'13.976"W	10756.89	338.401	0.54	0.23	0.48	
17665.00	91.020	336.220	6416.66	10828.64	10087.65	-3997.43	1672300.74	14258921.87	39°15'58.736"N	80°53'14.454"W	10850.81	338.383	0.23	0.00	-0.23	
17760.00	90.920	337.350	6415.05	10923.57	10174.95	-4034.87	1672263.32	14259009.13	39°15'59.599"N	80°53'14.929"W	10945.76	338.369	1.19	-0.11	1.19	
17854.00	90.920	335.270	6413.54	11017.51	10261.01	-4072.63	1672225.57	14259095.16	39°15'00.450"N	80°53'15.407"W	11039.68	338.352	2.21	0.00	-2.21	
17949.00	90.890	335.820	6412.04	11112.49	10347.47	-4111.95	1672186.26	14259181.59	39°15'01.305"N	80°53'15.906"W	11134.56	338.328	0.58	-0.03	0.58	
18038.00	91.390	333.620	6410.27	11201.47	10427.93	-4149.95	1672148.28	14259262.01	39°15'02.101"N	80°53'16.388"W	11223.36	338.299	2.53	0.66	-2.47	
18063.00	91.390	333.620	6409.66	11226.46	10450.32	-4161.06	1672137.18	14259284.39	39°15'02.322"N	80°53'16.529"W	11248.27	338.289	0.00	0.00	0.00	Projected MD at TD - 18063'

HOLE & CASING SECTIONS - Ref Wellbore: Mary Jane Unit 2H AWP

String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	End N/S	Start EW	End EW
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
20in Conductor	25.00	65.00	40.00	25.00	65.00	0.00	0.00	0.00	-0.02
13.375in Casing Surface	25.00	454.00	429.00	25.00	453.99	0.00	0.00	0.00	-0.39
9.625in Casing Intermediate	25.00	2580.00	2555.00	25.00	2577.82	0.00	0.00	0.00	12.99

Ref Wellpath: Mary Jane Unit 2H AWP Proj: 18063'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Mary Jane Unit 2H POE Rev-2	6502.00	400.49	539.64	1676836.00	14249238.59	39°14'22.930"N	80°52'16.943"W	point
Mary Jane Unit 2H BHL Rev-1	6523.00	10449.09	-4169.81	1672128.43	14259283.16	39°16'02.310"N	80°53'16.640"W	point
Mary Jane Unit 2H LP Rev-1	6523.00	584.19	488.62	1676784.99	14249422.22	39°14'24.746"N	80°52'17.589"W	point

WELLPATH COMPOSITION - Ref Wellbore: Mary Jane Unit 2H AWB Ref Wellpath: Mary Jane Unit 2H AWP Proj: 18063'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	
25.00	5572.01	SDI Keeper v1.04	01 SDI Std. Keeper Gyro (100' - 5560.01')	Mary Jane Unit 2H AWB	
5572.01	18038.00	BHI AutoTrak Curve (Short)	02 BHI AT Curve <8-1/2">(5572.01')(5668'-18038')	Mary Jane Unit 2H AWB	
18038.00	18063.00	Blind Drilling (std)	Projection to bit	Mary Jane Unit 2H AWB	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Doddridge Co., WV	Well	Mary Jane Unit 2H
Field	Doddridge	Wellbore	Mary Jane Unit 2H AWB
Facility	James Webb Pad		

COMMENTS
<p>Wellpath general comments API: 47-017-07000-0000 BHI Job #: 8043704 Rig: Patterson 343 Duration: 7/10/2016-7/14/2016 SDI Keeper <8-3/4"> (100'-5560.01') BHI AT Curve <8-1/2"> (5572.01')(5668'-18038') Middlesex: 6507' MD Burkett: 6771' MD Tully: 6855' MD Hamilton: 6932' MD Marcellus POE: 6959' MD Projected MD at TD: 18063'</p>

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