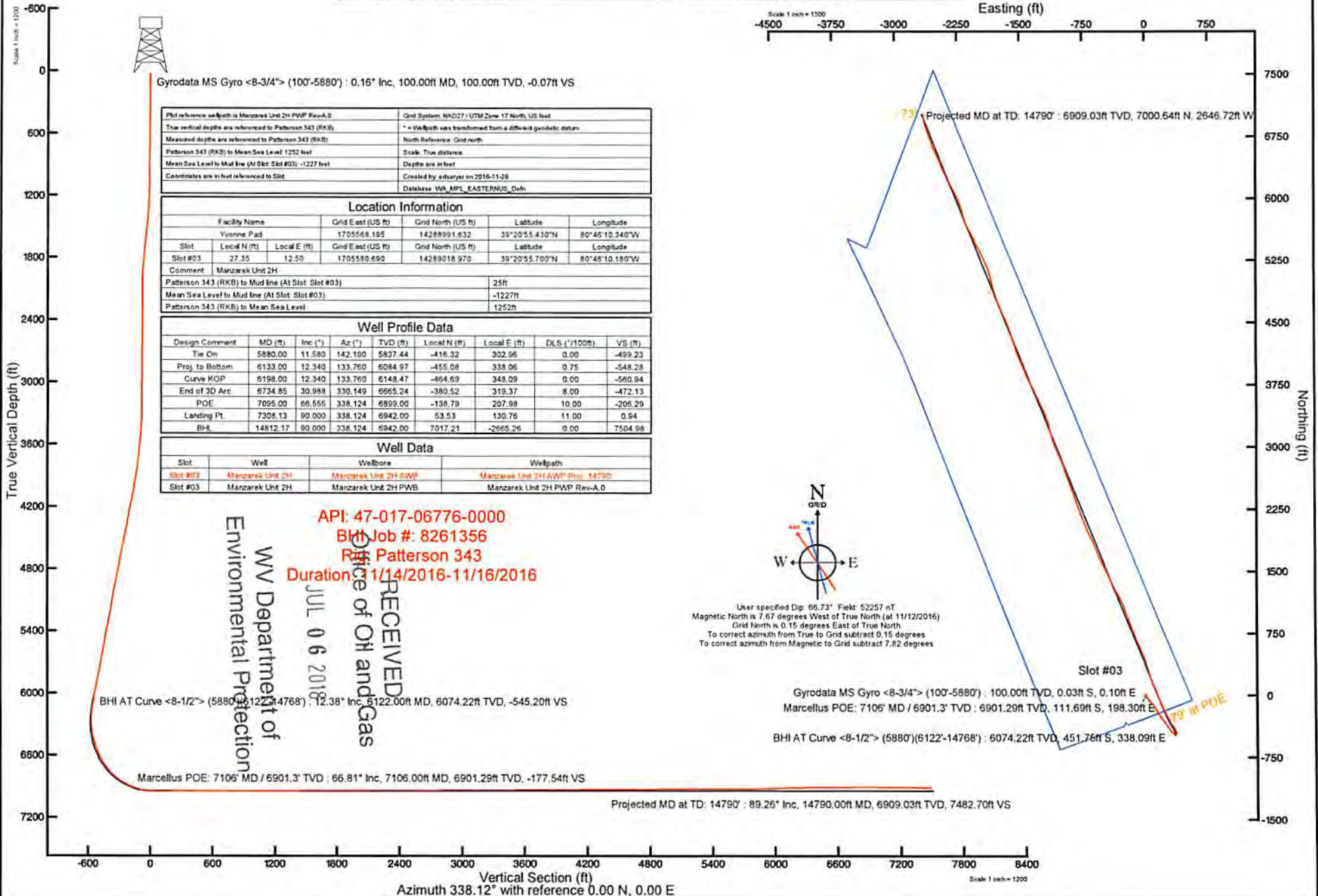




ANTERO RESOURCES CORPORATION

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

Slot: Slot #03
 Well: Manzarek Unit 2H
 Wellbore: Manzarek Unit 2H PWB



Gyrodata MS Gyro <8-3/4> (100'-5880') : 0.16° Inc, 100.00ft MD, 100.00ft TVD, -0.07ft VS

Plot reference wellpath is Manzarek Unit 2H PWB 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 geographic datum
Measured depths are referenced to Patterson 343 (RKB)	North Reference: Grid north
Patterson 343 (RKB) to Mean Sea Level: 1252 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #03): -1227 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: edhenry on 2016-11-28
	Database: WA_MPL_EASTERNUS.Dwg

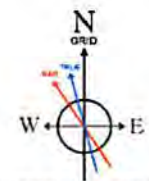
Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Yvonne Pad	170556.195	1428891.632	39°20'55.430"N	80°46'10.340"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #03	27.35	12.50	1705580.890	14289018.970	39°20'55.700"N 80°46'10.180"W
Comment: Manzarek Unit 2H					
Patterson 343 (RKB) to Mud line (At Slot: Slot #03)			25ft		
Mean Sea Level to Mud line (At Slot: Slot #03)			-1227ft		
Patterson 343 (RKB) to Mean Sea Level			1252ft		

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	D/S (°/100ft)	VS (ft)
Tie On	5880.00	11.580	142.190	5837.44	-416.32	302.96	0.00	-499.23
Proj. to Bottom	6133.00	12.340	133.760	6084.97	-455.08	338.06	0.75	-548.28
Curve KOP	6198.00	12.340	133.760	6148.47	-464.69	348.09	0.00	-560.94
End of 3D Arc	6734.85	30.988	330.149	6665.24	-380.52	319.37	8.00	-472.13
POE	7095.00	66.555	338.124	6899.00	-138.79	207.98	10.00	-206.29
Landing Pt.	7308.13	90.000	338.124	6942.00	53.53	130.76	11.00	0.94
BHL	14812.17	90.000	338.124	6942.00	7017.21	-2665.26	0.00	7504.98

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #03	Manzarek Unit 2H	Manzarek Unit 2H AWP	Manzarek Unit 2H AWP Proj. 14790'
Slot #03	Manzarek Unit 2H	Manzarek Unit 2H PWB	Manzarek Unit 2H PWB Rev-A.0

API: 47-017-06776-0000
 BHM Job #: 8261356
 Run: Patterson 343
 Duration: 11/14/2016-11/16/2016

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 WV Department of Environmental Protection



User specified Dip: 66.73° Field: 52257 nT
 Magnetic North is 7.67 degrees West of True North (at 11/12/2016)
 Grid North is 0.15 degrees East of True North
 To correct azimuth from True to Grid subtract 0.15 degrees
 To correct azimuth from Magnetic to Grid subtract 7.82 degrees



Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Manzarek Unit 2H
Field	Doddridge	Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Edsaryar
Scale	0.999605	Report Generated	11/26/2016 at 2:44:33 PM
Convergence at slot	0.15° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Manzarek_Unit_2H_AWP_Proj_14790_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	27.35	12.50	1705580.69	14289018.97	39°20'55.700"N	80°46'10.180"W
Facility Reference Pt			1705568.20	14288991.63	39°20'55.430"N	80°46'10.340"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 343 (RKB) to Facility Vertical Datum	25.00ft
Horizontal Reference Pt	Slot	Patterson 343 (RKB) to Mean Sea Level	1252.00ft
Vertical Reference Pt	Patterson 343 (RKB)	Patterson 343 (RKB) to Mud Line at Slot (Slot #03)	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	338.12°

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Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Manzarek Unit 2H
Field	Doddridge	Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (172 stations) † = interpolated/extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
0.00	0.00	108.160	0.00	0.00	0.00	0.00	1705580.69	14289018.97	39°20'55.700"N	80°46'10.180"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	108.160	25.00	0.00	0.00	0.00	1705580.69	14289018.97	39°20'55.700"N	80°46'10.180"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.160	108.160	100.00	-0.07	-0.03	0.10	1705580.79	14289018.94	39°20'55.700"N	80°46'10.179"W	0.10	108.160	0.21	0.21	144.21	Gyrodata MS Gyro <8-3/4"> (100'-5880')
200.00	0.230	143.500	200.00	-0.35	-0.24	0.35	1705581.04	14289018.73	39°20'55.698"N	80°46'10.176"W	0.42	124.041	0.14	0.07	35.34	
300.00	0.270	143.750	300.00	-0.77	-0.59	0.61	1705581.30	14289018.38	39°20'55.694"N	80°46'10.172"W	0.85	133.977	0.04	0.04	0.25	
400.00	0.180	127.470	400.00	-1.14	-0.87	0.87	1705581.56	14289018.10	39°20'55.691"N	80°46'10.169"W	1.24	135.005	0.11	-0.09	-16.28	
500.00	0.170	122.990	500.00	-1.39	-1.05	1.12	1705581.81	14289017.92	39°20'55.690"N	80°46'10.166"W	1.54	133.087	0.02	-0.01	-4.48	
600.00	0.660	97.540	599.99	-1.80	-1.21	1.82	1705582.51	14289017.76	39°20'55.688"N	80°46'10.157"W	2.18	123.572	0.51	0.49	-25.45	
700.00	1.020	101.320	699.98	-2.57	-1.46	3.26	1705583.95	14289017.51	39°20'55.686"N	80°46'10.139"W	3.57	114.071	0.36	0.36	3.78	
800.00	0.830	111.570	799.97	-3.55	-1.90	4.81	1705585.50	14289017.07	39°20'55.681"N	80°46'10.119"W	5.17	111.543	0.25	-0.19	10.25	
900.00	0.500	140.440	899.96	-4.47	-2.50	5.76	1705586.45	14289016.47	39°20'55.675"N	80°46'10.107"W	6.28	113.470	0.46	-0.33	28.87	
1000.00	0.540	138.960	999.96	-5.33	-3.19	6.35	1705587.04	14289015.78	39°20'55.668"N	80°46'10.099"W	7.11	116.703	0.04	0.04	-1.48	
1100.00	0.790	124.890	1099.95	-6.35	-3.94	7.22	1705587.91	14289015.03	39°20'55.661"N	80°46'10.088"W	8.23	118.629	0.30	0.25	-14.07	
1200.00	2.150	126.790	1199.92	-8.53	-5.46	9.29	1705589.98	14289013.51	39°20'55.646"N	80°46'10.062"W	10.78	120.445	1.36	1.36	1.90	
1300.00	3.590	137.730	1299.79	-13.07	-8.90	12.90	1705593.58	14289010.07	39°20'55.612"N	80°46'10.016"W	15.67	124.608	1.53	1.44	10.94	
1400.00	5.130	144.520	1399.50	-20.35	-14.86	17.60	1705598.28	14289004.12	39°20'55.553"N	80°46'09.956"W	23.03	130.173	1.62	1.54	6.79	
1500.00	5.400	143.930	1499.08	-29.25	-22.30	22.96	1705603.65	14288996.68	39°20'55.479"N	80°46'09.888"W	32.01	134.162	0.28	0.27	-0.59	
1600.00	5.840	141.040	1598.60	-38.68	-30.06	28.93	1705609.61	14288988.92	39°20'55.402"N	80°46'09.813"W	41.72	136.095	0.52	0.44	-2.89	
1700.00	5.930	139.030	1698.07	-48.42	-37.92	35.52	1705616.20	14288981.07	39°20'55.324"N	80°46'09.729"W	51.96	136.870	0.22	0.09	-2.01	
1800.00	6.060	135.420	1797.62	-58.18	-45.58	42.61	1705623.29	14288973.41	39°20'55.248"N	80°46'09.639"W	62.40	136.926	0.40	0.13	-3.61	
1900.00	4.630	129.570	1897.09	-66.59	-51.91	49.43	1705630.10	14288967.08	39°20'55.186"N	80°46'09.553"W	71.68	136.402	1.53	-1.43	-5.85	
2000.00	2.820	121.460	1996.87	-72.11	-55.76	54.64	1705635.31	14288963.23	39°20'55.147"N	80°46'09.486"W	78.07	135.584	1.88	-1.81	-8.11	
2100.00	1.010	87.890	2096.81	-74.38	-57.02	57.62	1705638.29	14288961.98	39°20'55.135"N	80°46'09.448"W	81.06	134.699	2.06	-1.81	-33.57	
2200.00	0.780	337.420	2196.81	-74.00	-56.36	58.24	1705638.90	14288962.64	39°20'55.142"N	80°46'09.441"W	81.04	134.059	1.48	-0.23	-110.47	
2300.00	0.770	292.880	2296.80	-72.85	-55.47	57.36	1705638.02	14288963.53	39°20'55.150"N	80°46'09.452"W	79.79	134.040	0.59	-0.01	-44.54	
2400.00	0.800	286.380	2396.79	-71.94	-55.01	56.07	1705636.74	14288963.98	39°20'55.155"N	80°46'09.468"W	78.55	134.453	0.09	0.03	-6.50	
2500.00	1.260	207.260	2496.78	-72.23	-55.79	54.89	1705635.56	14288963.20	39°20'55.147"N	80°46'09.483"W	78.27	135.462	1.36	0.46	-79.12	
2600.00	1.700	196.480	2596.74	-74.11	-58.19	53.97	1705634.64	14288960.81	39°20'55.124"N	80°46'09.495"W	79.36	137.153	0.52	0.44	-10.78	
2700.00	1.740	198.710	2696.70	-76.43	-61.05	53.06	1705633.73	14288957.95	39°20'55.095"N	80°46'09.507"W	80.89	139.003	0.08	0.04	2.23	
2800.00	0.640	207.590	2796.68	-77.94	-62.98	52.32	1705632.99	14288956.01	39°20'55.076"N	80°46'09.516"W	81.88	140.284	1.11	-1.10	8.88	



Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #03
Area	Doddridge Co., WV		Well	Manzarek Unit 2H
Field	Doddridge		Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad			

WELLPATH DATA (172 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
2900.00	0.350	202.770	2896.67	-78.52	-63.76	51.94	1705632.61	14288955.24	39°20'55.069"N	80°46'09.521"W	82.24	140.832	0.29	-0.29	-4.82	
3000.00	0.230	198.360	2996.67	-78.89	-64.23	51.76	1705632.43	14288954.77	39°20'55.064"N	80°46'09.523"W	82.49	141.137	0.12	-0.12	-4.41	
3100.00	0.050	39.430	3096.67	-79.02	-64.39	51.72	1705632.39	14288954.61	39°20'55.062"N	80°46'09.524"W	82.59	141.224	0.28	-0.18	-158.93	
3200.00	0.330	72.970	3196.67	-79.03	-64.27	52.03	1705632.70	14288954.73	39°20'55.063"N	80°46'09.520"W	82.69	141.009	0.29	0.28	33.54	
3300.00	1.550	120.180	3296.65	-80.12	-64.86	53.47	1705634.14	14288954.13	39°20'55.058"N	80°46'09.501"W	84.06	140.500	1.35	1.22	47.21	
3400.00	3.000	124.430	3396.57	-83.36	-67.02	56.80	1705637.47	14288951.97	39°20'55.036"N	80°46'09.459"W	87.85	139.721	1.46	1.45	4.25	
3500.00	4.080	129.230	3496.38	-88.65	-70.75	61.71	1705642.38	14288948.24	39°20'54.999"N	80°46'09.397"W	93.89	138.904	1.12	1.08	4.80	
3600.00	6.020	136.110	3595.99	-96.63	-76.78	68.10	1705648.77	14288942.22	39°20'54.939"N	80°46'09.316"W	102.63	138.428	2.03	1.94	6.88	
3700.00	6.370	136.150	3695.40	-106.64	-84.56	75.58	1705656.24	14288934.44	39°20'54.862"N	80°46'09.221"W	113.42	138.209	0.35	0.35	0.04	
3800.00	8.440	135.550	3794.57	-118.56	-93.80	84.57	1705665.22	14288925.20	39°20'54.771"N	80°46'09.107"W	126.29	137.964	2.07	2.07	-0.60	
3900.00	10.100	142.090	3893.26	-133.77	-105.96	95.09	1705675.75	14288913.05	39°20'54.650"N	80°46'08.973"W	142.37	138.094	1.96	1.66	6.54	
4000.00	9.720	142.880	3991.77	-150.34	-119.61	105.58	1705686.22	14288899.41	39°20'54.515"N	80°46'08.840"W	159.54	138.566	0.40	-0.38	0.79	
4100.00	11.000	144.050	4090.13	-167.74	-134.07	116.27	1705696.92	14288884.96	39°20'54.372"N	80°46'08.704"W	177.46	139.066	1.30	1.28	1.17	
4200.00	11.930	151.030	4188.14	-187.25	-150.83	126.88	1705707.52	14288868.20	39°20'54.206"N	80°46'08.570"W	197.10	139.930	1.67	0.93	6.98	
4300.00	10.480	153.080	4286.23	-206.57	-167.98	136.00	1705716.64	14288851.05	39°20'54.036"N	80°46'08.454"W	216.14	141.006	1.50	-1.45	2.05	
4400.00	10.650	156.180	4384.54	-224.86	-184.55	143.85	1705724.49	14288834.50	39°20'53.872"N	80°46'08.355"W	233.99	142.064	0.59	0.17	3.10	
4500.00	11.700	149.460	4482.65	-244.12	-201.73	152.74	1705733.37	14288817.32	39°20'53.702"N	80°46'08.242"W	253.03	142.870	1.67	1.05	-6.72	
4600.00	11.720	143.340	4580.57	-263.97	-218.62	163.95	1705744.58	14288800.44	39°20'53.535"N	80°46'08.100"W	273.27	143.131	1.24	0.02	-6.12	
4700.00	10.440	145.300	4678.70	-282.62	-234.21	175.18	1705755.80	14288784.85	39°20'53.381"N	80°46'07.958"W	292.48	143.206	1.33	-1.28	1.96	
4800.00	11.050	148.750	4776.95	-300.91	-249.85	185.31	1705765.92	14288769.21	39°20'53.226"N	80°46'07.829"W	311.07	143.437	0.89	0.61	3.45	
4900.00	11.270	146.710	4875.06	-319.95	-265.22	195.64	1705776.25	14288752.86	39°20'53.064"N	80°46'07.698"W	330.37	143.688	0.45	0.22	-2.04	
5000.00	11.230	144.800	4973.14	-339.00	-282.34	206.62	1705787.23	14288736.74	39°20'52.904"N	80°46'07.559"W	349.87	143.803	0.37	-0.04	-1.91	
5100.00	9.950	138.790	5071.44	-356.63	-296.80	217.92	1705798.53	14288722.29	39°20'52.761"N	80°46'07.416"W	368.21	143.712	1.69	-1.28	-6.01	
5200.00	10.410	139.230	5169.86	-373.33	-310.14	229.52	1705810.11	14288708.95	39°20'52.629"N	80°46'07.269"W	385.83	143.497	0.47	0.46	0.44	
5300.00	11.530	145.960	5268.04	-391.65	-325.26	241.01	1705821.60	14288693.83	39°20'52.479"N	80°46'07.123"W	404.82	143.463	1.70	1.12	6.73	
5400.00	11.190	152.590	5366.08	-411.08	-342.16	251.07	1705834.66	14288676.95	39°20'52.312"N	80°46'06.995"W	424.40	143.729	1.35	-0.34	6.63	
5500.00	10.940	146.970	5464.23	-430.05	-358.73	260.77	1705847.30	14288660.38	39°20'52.148"N	80°46'06.873"W	443.46	143.992	1.11	-0.25	-5.62	
5600.00	10.740	141.040	5562.44	-448.27	-373.93	271.99	1705859.33	14288645.19	39°20'51.997"N	80°46'06.733"W	462.24	143.993	1.13	-0.20	-5.93	
5700.00	10.570	147.150	5660.72	-466.18	-388.83	282.58	1705873.16	14288630.24	39°20'51.849"N	80°46'06.596"W	480.71	143.996	1.14	-0.17	6.11	
5800.00	10.890	141.930	5758.98	-484.25	-404.08	293.38	1705887.95	14288615.11	39°20'51.699"N	80°46'06.459"W	499.31	144.015	1.02	0.32	-5.22	



Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Manzarek Unit 2H
Field	Doddridge	Wellbore	Manzarek Unit 2H AWP
Facility	Yvonne Pad		

WELLPATH DATA (172 stations) † = interpolated/extrapolated station																
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]	Comments
5880.00	11.580	142.190	5837.44	-499.23	-416.32	302.96	1705883.53	14288602.82	39°20'51.578"N	80°46'06.337"W	514.88	143.956	0.86	0.86	0.33	
6122.00	12.380	128.740	6074.22	-545.20	-451.75	338.09	1705918.65	14288567.40	39°20'51.227"N	80°46'05.891"W	564.25	143.189	1.20	0.33	-5.56	BHI AT Curve <8-1/2"> (5880')(6122'-14768')
6169.00	9.700	128.570	6120.34	-553.04	-457.37	345.12	1705925.67	14288561.78	39°20'51.171"N	80°46'05.802"W	572.97	142.963	5.70	-5.70	-0.36	
6217.00	7.510	121.420	6167.80	-559.07	-461.53	350.96	1705931.51	14288557.62	39°20'51.130"N	80°46'05.728"W	579.81	142.750	5.07	-4.56	-14.90	
6264.00	6.110	96.450	6214.48	-562.72	-463.41	356.07	1705936.61	14288555.74	39°20'51.111"N	80°46'05.663"W	584.41	142.463	6.89	-2.98	-53.13	
6311.00	5.890	76.550	6261.23	-564.26	-463.13	360.90	1705941.44	14288556.02	39°20'51.113"N	80°46'05.601"W	587.14	142.072	4.43	-0.47	-42.34	
6355.00	6.490	47.660	6304.98	-563.73	-460.93	364.93	1705945.48	14288558.22	39°20'51.135"N	80°46'05.550"W	587.91	141.630	7.13	1.36	-65.66	
6405.00	9.670	19.740	6354.50	-559.60	-455.07	368.44	1705948.99	14288564.08	39°20'51.193"N	80°46'05.505"W	585.52	141.005	9.93	6.36	-55.84	
6452.00	12.950	1.660	6400.59	-551.81	-446.09	369.93	1705950.47	14288573.06	39°20'51.282"N	80°46'05.486"W	579.52	140.332	10.20	6.98	-38.47	
6500.00	15.770	348.250	6447.10	-540.46	-434.32	368.76	1705949.30	14288584.82	39°20'51.398"N	80°46'05.500"W	569.75	139.667	9.05	5.87	-27.94	
6547.00	17.930	335.660	6492.09	-526.93	-421.47	364.47	1705945.02	14288597.67	39°20'51.525"N	80°46'05.554"W	557.20	139.148	9.00	4.60	-26.79	
6594.00	20.170	327.260	6536.53	-511.74	-408.06	357.10	1705937.65	14288611.07	39°20'51.658"N	80°46'05.648"W	542.25	138.810	7.52	4.77	-17.87	
6641.00	23.790	324.210	6580.10	-494.58	-393.55	347.17	1705927.73	14288625.58	39°20'51.802"N	80°46'05.774"W	524.79	138.582	8.07	7.70	-6.49	
6688.00	27.130	325.190	6622.53	-474.93	-377.05	335.51	1705916.07	14288642.07	39°20'51.965"N	80°46'05.922"W	504.71	138.337	7.16	7.11	2.09	
6735.00	30.840	326.830	6663.64	-452.66	-358.16	322.80	1705903.36	14288660.95	39°20'52.152"N	80°46'06.083"W	482.16	137.973	8.07	7.89	3.49	
6766.00†	33.715	329.299	6689.85	-436.36	-344.11	314.05	1705894.62	14288674.99	39°20'52.291"N	80°46'06.194"W	465.88	137.615	10.20	9.27	7.96	Middlesex: 6766' MD / 6689.9' TVD
6783.00	35.310	330.500	6703.86	-426.83	-335.78	309.23	1705889.79	14288683.32	39°20'52.373"N	80°46'06.255"W	456.47	137.357	10.20	9.38	7.06	
6830.00	40.190	332.580	6741.01	-398.25	-310.48	295.54	1705876.12	14288708.61	39°20'52.624"N	80°46'06.428"W	428.65	136.412	10.73	10.38	4.43	
6877.00	44.520	333.330	6775.73	-366.72	-282.28	281.16	1705861.74	14288736.80	39°20'52.903"N	80°46'06.610"W	398.41	135.114	9.28	9.21	1.60	
6924.00	49.780	333.100	6807.69	-332.40	-251.83	265.63	1705846.22	14288767.54	39°20'53.207"N	80°46'06.807"W	365.83	133.438	11.20	11.19	-0.49	
6950.00†	52.468	332.553	6824.00	-312.25	-233.53	256.39	1705836.98	14288785.54	39°20'53.385"N	80°46'06.924"W	346.80	132.328	10.47	10.34	-2.10	Burkett: 6950' MD / 6824' TVD
6971.00	54.640	332.140	6836.48	-295.45	-218.57	248.55	1705829.14	14288800.49	39°20'53.534"N	80°46'07.023"W	330.98	131.327	10.47	10.34	-1.97	
6999.00†	57.693	333.335	6852.07	-272.29	-197.89	247.90	1705818.50	14288821.16	39°20'53.738"N	80°46'07.158"W	309.45	129.755	11.46	10.90	4.27	Tully: 6999' MD / 6852.1' TVD
7018.00	59.770	334.100	6861.93	-256.10	-183.33	240.71	1705811.31	14288835.71	39°20'53.882"N	80°46'07.249"W	294.68	128.472	11.46	10.93	4.03	
7065.00	63.770	335.790	6884.16	-214.77	-145.82	213.19	1705793.79	14288873.21	39°20'54.253"N	80°46'07.471"W	258.29	124.372	9.08	8.51	3.60	
7106.00†	66.814	337.051	6901.29	-177.54	-111.89	198.30	1705778.91	14288907.33	39°20'54.591"N	80°46'07.659"W	227.59	119.390	7.93	7.42	3.07	Marcellus POE: 7106' MD / 6901.3' TVD
7112.00	67.260	337.230	6903.63	-172.02	-106.60	196.15	1705776.76	14288912.41	39°20'54.641"N	80°46'07.687"W	223.24	118.522	7.93	7.44	2.99	
7159.00	72.470	338.550	6919.81	-127.91	-65.73	179.55	1705760.17	14288953.27	39°20'55.046"N	80°46'07.897"W	191.21	110.106	11.39	11.09	2.81	
7206.00	78.290	339.060	6931.67	-82.45	-23.34	163.12	1705749.75	14288995.64	39°20'55.465"N	80°46'08.104"W	164.78	98.144	12.43	12.38	1.09	
7254.00	82.880	339.410	6939.52	-35.12	26.92	146.34	1705726.97	14289039.88	39°20'55.903"N	80°46'08.317"W	147.83	81.863	9.59	9.56	0.73	



Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #03
Area	Doddridge Co., WV		Well	Manzarek Unit 2H
Field	Doddridge		Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad			

WELLPATH DATA (172 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
7301.00	88.800	338.510	6942.92	11.73	64.65	129.52	1705710.15	14289083.60	39°20'56.336"N	80°46'08.529"W	144.76	63.472	12.74	12.60	-1.91	
7348.00	89.720	336.650	6943.53	58.72	108.09	111.59	1705692.24	14289127.02	39°20'56.766"N	80°46'08.756"W	155.36	45.912	4.41	1.96	-3.96	
7441.00	90.120	337.810	6943.66	151.71	193.84	75.60	1705656.26	14289212.74	39°20'57.614"N	80°46'09.211"W	208.07	21.306	1.32	0.43	1.25	
7536.00	90.430	344.140	6943.20	246.54	283.61	44.65	1705625.32	14289302.47	39°20'58.502"N	80°46'09.602"W	287.10	8.946	6.67	0.33	6.66	
7631.00	90.180	343.780	6942.70	341.05	374.91	18.40	1705599.08	14289393.73	39°20'59.405"N	80°46'09.934"W	375.36	2.810	0.46	-0.26	-0.38	
7725.00	89.970	340.090	6942.58	434.82	464.26	-10.75	1705569.95	14289483.05	39°21'00.289"N	80°46'10.302"W	464.38	358.674	3.93	-0.22	-3.93	
7819.00	89.940	335.780	6942.65	528.80	551.35	-46.05	1705534.66	14289570.11	39°21'01.151"N	80°46'10.748"W	553.27	355.226	4.59	-0.03	-4.59	
7913.00	90.030	335.420	6942.67	622.71	636.96	-84.88	1705495.84	14289655.68	39°21'01.998"N	80°46'11.240"W	642.59	352.410	0.39	0.10	-0.38	
8008.00	89.970	338.670	6942.67	717.68	724.42	-121.93	1705458.81	14289743.11	39°21'02.863"N	80°46'11.709"W	734.61	350.446	3.42	-0.06	3.42	
8102.00	89.910	339.190	6942.77	811.67	812.14	-155.72	1705425.03	14289830.79	39°21'03.731"N	80°46'12.136"W	826.93	349.146	0.56	-0.06	0.55	
8197.00	90.580	340.540	6942.37	906.62	901.33	-188.42	1705392.34	14289919.94	39°21'04.613"N	80°46'12.549"W	920.81	348.192	1.59	0.71	1.42	
8291.00	90.430	341.110	6941.54	1000.51	990.11	-219.29	1705361.48	14290008.69	39°21'05.491"N	80°46'12.939"W	1014.10	347.511	0.63	-0.16	0.61	
8386.00	89.970	338.510	6941.21	1095.46	1079.26	-252.08	1705328.71	14290097.81	39°21'06.373"N	80°46'13.354"W	1108.31	346.853	2.78	-0.48	-2.74	
8480.00	90.340	332.280	6940.95	1189.31	1164.69	-291.20	1705289.61	14290183.19	39°21'07.219"N	80°46'13.849"W	1200.54	345.963	6.64	0.39	-6.63	
8574.00	90.340	330.520	6940.39	1282.66	1247.21	-336.19	1705244.63	14290265.69	39°21'08.035"N	80°46'14.419"W	1291.73	344.914	1.87	0.00	-1.87	
8669.00	90.340	333.670	6939.83	1377.12	1331.15	-380.65	1705200.19	14290349.60	39°21'08.866"N	80°46'14.982"W	1384.51	344.042	3.32	0.00	3.32	
8763.00	90.180	336.930	6939.40	1470.99	1416.54	-419.92	1705160.94	14290434.95	39°21'09.711"N	80°46'15.480"W	1477.47	343.488	3.47	-0.17	3.47	
8857.00	90.150	333.210	6939.13	1564.84	1501.77	-459.53	1705121.34	14290520.14	39°21'10.554"N	80°46'15.981"W	1570.50	342.986	3.96	-0.03	-3.96	
8952.00	90.120	331.720	6938.91	1659.38	1586.00	-503.45	1705077.44	14290604.34	39°21'11.388"N	80°46'16.537"W	1663.99	342.389	1.57	-0.03	-1.57	
9046.00	90.250	337.020	6938.60	1753.14	1670.72	-544.10	1705036.81	14290689.03	39°21'12.226"N	80°46'17.052"W	1757.09	341.961	5.64	0.14	5.64	
9140.00	90.150	340.390	6938.28	1847.17	1758.29	-578.23	1705002.69	14290776.56	39°21'13.093"N	80°46'17.484"W	1850.93	341.796	3.59	-0.11	3.59	
9235.00	90.310	334.890	6937.89	1942.08	1846.12	-614.36	1704966.58	14290864.35	39°21'13.962"N	80°46'17.941"W	1945.66	341.593	5.79	0.17	-5.79	
9329.00	90.120	335.050	6937.54	2035.94	1931.29	-654.11	1704926.82	14290949.49	39°21'14.804"N	80°46'18.444"W	2039.06	341.289	0.26	-0.20	0.17	
9424.00	89.880	337.690	6937.54	2130.89	2078.31	-692.26	1704888.76	14291036.48	39°21'15.666"N	80°46'18.926"W	2133.71	341.070	2.79	-0.25	2.78	
9518.00	90.000	338.760	6937.64	2224.88	2105.61	-727.07	1704853.91	14291123.74	39°21'16.529"N	80°46'19.367"W	2227.60	340.950	1.15	0.13	1.14	
9612.00	90.000	338.310	6937.64	2318.88	2193.09	-761.47	1704819.52	14291211.18	39°21'17.395"N	80°46'19.802"W	2321.52	340.852	0.48	0.00	-0.48	
9706.00	90.250	340.250	6937.44	2412.85	2281.00	-794.72	1704786.28	14291299.07	39°21'18.264"N	80°46'20.223"W	2415.48	340.791	2.08	0.27	2.06	
9800.00	90.340	340.640	6936.95	2506.78	2369.58	-826.19	1704754.83	14291387.61	39°21'19.141"N	80°46'20.621"W	2509.48	340.778	0.43	0.10	0.41	
9895.00	90.310	341.300	6936.41	2601.66	2459.38	-857.16	1704723.87	14291477.38	39°21'20.029"N	80°46'21.012"W	2604.48	340.785	0.70	-0.03	0.69	
9989.00	90.310	338.700	6935.90	2695.60	2547.71	-889.81	1704691.73	14291565.66	39°21'20.903"N	80°46'21.419"W	2698.46	340.758	2.77	0.00	-2.77	



Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Manzarek Unit 2H
Field	Doddridge	Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (172 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
10083.00	90.250	340.140	6935.44	2789.57	2635.70	-922.35	1704658.71	14291653.63	39°21'21.773"N	80°46'21.836"W	2792.43	340.713	1.53	-0.06	1.53	
10178.00	90.250	342.060	6935.03	2884.44	2725.58	-953.12	1704627.95	14291743.46	39°21'22.662"N	80°46'22.225"W	2887.42	340.726	2.02	0.00	2.02	
10272.00	90.180	338.280	6934.68	2978.36	2813.99	-985.00	1704596.08	14291831.84	39°21'23.537"N	80°46'22.628"W	2981.40	340.708	4.02	-0.07	-4.02	
10367.00	90.250	336.050	6934.32	3073.34	2901.54	-1021.87	1704559.23	14291919.35	39°21'24.403"N	80°46'23.095"W	3076.22	340.599	2.35	0.07	-2.35	
10461.00	90.520	338.400	6933.69	3167.32	2988.20	-1058.25	1704522.86	14292005.98	39°21'25.261"N	80°46'23.555"W	3170.05	340.499	2.52	0.29	2.50	
10555.00	90.180	341.130	6933.11	3261.27	3076.39	-1090.76	1704490.36	14292094.13	39°21'26.133"N	80°46'23.966"W	3264.03	340.478	2.93	-0.36	2.90	
10649.00	90.520	344.030	6932.54	3354.97	3166.06	-1118.90	1704462.24	14292183.78	39°21'27.020"N	80°46'24.322"W	3357.96	340.536	3.11	0.36	3.09	
10743.00	90.280	347.130	6931.88	3448.16	3257.09	-1142.30	1704438.84	14292274.77	39°21'27.920"N	80°46'24.617"W	3451.59	340.674	3.31	-0.26	3.30	
10838.00	90.620	340.440	6931.14	3542.64	3348.26	-1168.82	1704412.34	14292365.90	39°21'28.822"N	80°46'24.951"W	3546.40	340.757	7.05	0.36	-7.04	
10932.00	90.490	334.080	6930.23	3636.58	3434.90	-1205.13	1704376.04	14292452.51	39°21'29.679"N	80°46'25.411"W	3640.18	340.667	6.77	-0.14	-6.77	
11027.00	90.460	334.780	6929.44	3731.38	3520.59	-1246.13	1704335.05	14292538.16	39°21'30.527"N	80°46'25.930"W	3734.62	340.508	0.74	-0.03	0.74	
11121.00	89.850	336.160	6929.18	3825.28	3606.11	-1285.16	1704296.04	14292623.64	39°21'31.373"N	80°46'26.424"W	3828.27	340.385	1.61	-0.65	1.47	
11215.00	90.280	334.180	6929.08	3919.15	3691.41	-1324.63	1704256.59	14292708.92	39°21'32.217"N	80°46'26.924"W	3921.88	340.260	2.16	0.46	-2.11	
11309.00	90.370	332.270	6928.54	4012.80	3775.33	-1366.97	1704214.26	14292792.80	39°21'33.048"N	80°46'27.460"W	4015.18	340.096	2.03	0.10	-2.03	
11404.00	90.520	336.240	6927.81	4107.56	3860.88	-1408.23	1704173.02	14292878.31	39°21'33.894"N	80°46'27.983"W	4109.68	339.961	4.18	0.16	4.18	
11498.00	90.550	338.300	6926.93	4201.54	3947.57	-1444.54	1704136.72	14292964.97	39°21'34.752"N	80°46'28.442"W	4203.57	339.901	2.19	0.03	2.19	
11593.00	89.910	335.010	6926.55	4296.50	4034.78	-1482.18	1704099.10	14293052.15	39°21'35.615"N	80°46'28.919"W	4298.41	339.829	3.53	-0.67	-3.46	
11687.00	90.340	341.660	6926.34	4390.44	4122.09	-1516.87	1704064.43	14293139.42	39°21'36.479"N	80°46'29.358"W	4392.32	339.797	7.09	0.46	7.07	
11781.00	90.400	343.630	6925.73	4484.44	4211.80	-1544.90	1704036.40	14293229.10	39°21'37.366"N	80°46'29.712"W	4486.20	339.857	2.10	0.06	2.10	
11876.00	90.250	341.530	6925.19	4578.85	4302.44	-1573.34	1704007.97	14293319.70	39°21'38.263"N	80°46'30.071"W	4581.09	339.913	2.22	-0.16	-2.21	
11970.00	90.490	340.570	6924.59	4672.72	4391.34	-1603.87	1703977.46	14293408.57	39°21'39.142"N	80°46'30.457"W	4675.07	339.936	1.05	0.26	-1.02	
12064.00	90.280	339.350	6923.96	4766.67	4479.65	-1636.08	1703945.26	14293496.84	39°21'40.016"N	80°46'30.864"W	4769.07	339.937	1.32	-0.22	-1.30	
12158.00	90.280	334.310	6923.50	4860.51	4566.04	-1673.05	1703908.30	14293583.19	39°21'40.870"N	80°46'31.332"W	4862.90	339.877	5.36	0.00	-5.36	
12253.00	90.150	334.550	6923.14	4955.82	4651.73	-1714.05	1703867.32	14293668.85	39°21'41.718"N	80°46'31.851"W	4957.48	339.772	0.29	-0.14	0.25	
12347.00	90.150	340.900	6922.89	5049.37	4738.67	-1749.67	1703831.72	14293755.76	39°21'42.579"N	80°46'32.302"W	5051.37	339.734	6.76	0.00	6.76	
12442.00	90.250	341.950	6922.56	5144.21	4828.72	-1779.53	1703801.47	14293845.77	39°21'43.469"N	80°46'32.684"W	5146.33	339.765	1.11	0.11	1.11	
12536.00	90.220	344.440	6922.18	5237.83	4918.70	-1807.10	1703774.31	14293935.72	39°21'44.359"N	80°46'33.028"W	5240.15	339.827	2.65	-0.03	2.65	
12631.00	90.150	345.920	6921.87	5332.71	5010.54	-1831.40	1703750.02	14294027.52	39°21'45.268"N	80°46'33.334"W	5334.74	339.922	1.56	-0.07	1.56	
12725.00	91.140	344.920	6920.81	5425.33	5101.50	-1856.06	1703726.37	14294118.44	39°21'46.167"N	80°46'33.632"W	5428.31	340.017	1.50	1.05	-1.06	
12820.00	89.970	336.190	6919.89	5520.15	5190.99	-1886.65	1703694.78	14294207.90	39°21'47.052"N	80°46'34.032"W	5523.21	340.026	9.27	-1.23	-9.19	



Actual Wellpath Report

Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Manzarek Unit 2H
Field	Doddridge	Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH DATA (172 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
12914.00	89.850	336.790	6920.04	5614.11	5277.19	-1924.15	1703657.30	14294294.06	39°21'47.905"N	80°46'34.507"W	5617.03	339.967	0.65	-0.13	0.64	
13009.00	89.720	333.330	6920.39	5708.96	5363.31	-1964.20	1703617.27	14294380.15	39°21'48.758"N	80°46'35.014"W	5711.67	339.886	3.64	-0.14	-3.64	
13103.00	90.550	330.980	6920.17	5802.45	5446.42	-2008.11	1703573.38	14294463.23	39°21'49.580"N	80°46'35.570"W	5804.83	339.761	2.65	0.88	-2.50	
13197.00	91.790	335.630	6918.25	5896.07	5530.36	-2050.31	1703531.19	14294547.13	39°21'50.411"N	80°46'36.105"W	5898.19	339.658	5.12	1.32	4.95	
13292.00	91.600	329.830	6915.44	5990.56	5614.73	-2093.80	1703487.72	14294631.47	39°21'51.246"N	80°46'36.656"W	5992.43	339.549	6.11	-0.20	-6.11	
13387.00	92.060	338.700	6912.40	6085.21	5700.18	-2134.99	1703446.55	14294716.88	39°21'52.091"N	80°46'37.178"W	6086.89	339.467	9.34	0.48	9.34	
13481.00	91.080	344.980	6909.82	6178.92	5789.41	-2164.26	1703417.29	14294806.09	39°21'52.974"N	80°46'37.547"W	6180.72	339.503	6.76	-1.04	6.68	
13575.00	91.200	344.720	6907.95	6272.26	5880.13	-2188.82	1703392.73	14294896.76	39°21'53.871"N	80°46'37.857"W	6274.30	339.583	0.30	0.13	-0.28	
13669.00	90.580	336.950	6906.49	6366.07	5968.84	-2219.66	1703361.91	14294985.44	39°21'54.749"N	80°46'38.247"W	6368.20	339.601	8.29	-0.66	-8.27	
13764.00	90.490	332.470	6905.60	6460.87	6054.71	-2260.23	1703321.36	14295071.28	39°21'55.598"N	80°46'38.761"W	6462.83	339.529	4.72	-0.09	-4.72	
13858.00	90.400	331.930	6904.87	6554.37	6137.86	-2304.07	1703277.54	14295154.39	39°21'56.421"N	80°46'39.317"W	6556.07	339.425	0.58	-0.10	-0.57	
13952.00	90.490	331.970	6904.14	6647.82	6220.81	-2348.27	1703233.35	14295237.31	39°21'57.242"N	80°46'39.877"W	6649.28	339.319	0.10	0.10	0.04	
14047.00	90.490	335.160	6903.33	6742.51	6305.87	-2390.55	1703191.09	14295322.33	39°21'58.084"N	80°46'40.412"W	6743.79	339.238	3.36	0.00	3.36	
14141.00	89.970	338.640	6902.95	6836.47	6392.32	-2427.43	1703154.23	14295408.75	39°21'58.939"N	80°46'40.879"W	6837.70	339.206	3.74	-0.55	3.70	
14235.00	89.720	337.400	6903.21	6930.47	6479.48	-2462.61	1703119.06	14295495.88	39°21'59.801"N	80°46'41.324"W	6931.67	339.190	1.35	-0.27	-1.32	
14330.00	89.660	331.950	6903.72	7025.26	6565.32	-2503.23	1703078.45	14295581.68	39°22'00.651"N	80°46'41.839"W	7026.35	339.129	5.74	-0.06	-5.74	
14424.00	89.630	340.980	6904.30	7119.12	6651.41	-2540.73	1703040.97	14295667.74	39°22'01.503"N	80°46'42.314"W	7120.15	339.094	9.61	-0.03	9.61	
14519.00	89.170	339.220	6905.30	7214.05	6740.73	-2573.06	1703008.65	14295757.02	39°22'02.386"N	80°46'42.723"W	7215.12	339.107	1.91	-0.48	-1.85	
14614.00	89.140	340.340	6906.70	7309.00	6829.86	-2605.89	1702975.84	14295846.12	39°22'03.268"N	80°46'43.138"W	7310.11	339.116	1.18	-0.03	1.18	
14708.00	89.290	346.520	6907.99	7402.54	6919.90	-2632.68	1702949.05	14295936.13	39°22'04.158"N	80°46'43.476"W	7403.79	339.171	6.58	0.16	6.57	
14768.00	89.260	352.220	6908.75	7461.36	6978.85	-2643.74	1702938.00	14295995.04	39°22'04.741"N	80°46'43.615"W	7462.82	339.252	9.50	-0.05	9.50	
14790.00	89.260	352.220	6909.03	7482.70	7000.64	-2646.72	1702935.02	14296016.83	39°22'04.957"N	80°46'43.652"W	7484.26	339.290	0.00	0.00	0.00	Projected MD at TD: 14790'

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Manzarek Unit 2H AWP Proj: 14790'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #03
Area	Doddridge Co., WV	Well	Manzarek Unit 2H
Field	Doddridge	Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Manzarek Unit 2H AWB Ref Wellpath: Manzarek Unit 2H AWP Proj: 14790'										
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	25.00	65.00	40.00	25.00	65.00	0.00	0.00	-0.01	0.03	
17.5in Open Hole	65.00	597.00	532.00	65.00	596.99	-0.01	0.03	-1.20	1.78	
13.375in Casing Surface	25.00	597.00	572.00	25.00	596.99	0.00	0.00	-1.20	1.78	
12.25in Open Hole	597.00	2567.00	1970.00	596.99	2563.76	-1.20	1.78	-57.30	54.26	
9.625in Casing Intermediate	25.00	2567.00	2542.00	25.00	2563.76	0.00	0.00	-57.30	54.26	

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Manzarek Unit 2H POE Plat	6899.00	15.88	145.88	1705726.51	14289034.84	39°20'55.853"N	80°46'08.323"W	point
Manzarek Unit 2H POE Rev-1	6899.00	-138.79	207.98	1705788.58	14288880.24	39°20'54.323"N	80°46'07.537"W	point
Manzarek Unit 2H BHL Plat	6942.00	6865.95	-2604.52	1702977.20	14295882.19	39°22'03.624"N	80°46'43.119"W	point
Manzarek Unit 2H BHL Rev-1	6942.00	7017.21	-2665.26	1702916.49	14296033.39	39°22'05.121"N	80°46'43.888"W	point
Manzarek Unit 2H LP Rev-1	6942.00	53.53	130.76	1705711.40	14289072.47	39°20'56.226"N	80°46'08.514"W	point
Manzarek Unit 2H 20' L/R Hard Line	7050.00	3535.37	-1267.25	1704313.94	14292552.93	39°21'30.674"N	80°46'26.198"W	rectangle

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Manzarek Unit 2H AWP Proj: 14790'

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Field	Doddridge	Wellbore	Manzarek Unit 2H AWB
Facility	Yvonne Pad		

WELLPATH COMPOSITION - Ref Wellbore: Manzarek Unit 2H AWB Ref Wellpath: Manzarek Unit 2H AWP Proj: 14790'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	5880.00	Gyrodata standard - Drop gyro or Multi-shot	03 Gyrodata MS Gyro <8-3/4"> (100'-5880')	Manzarek Unit 2H AWB
5880.00	14768.00	BHI AutoTrak Curve (Short)	04 BHI AT Curve <8-1/2"> (5880')(6122'-14768')	Manzarek Unit 2H AWB
14768.00	14790.00	Blind Drilling (std)	Projection to bit	Manzarek Unit 2H AWB

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Facility	Yvonne Pad		

COMMENTS

Wellpath general comments

API: 47-017-06776-0000

BHI Job #: 8261356

Rig: Patterson 343

Duration: 11/14/2016-11/16/2016

Gyrodata MS Gyro <8-3/4"> (100'-5880')

BHI AT Curve <8-1/2"> (5880')(6122'-14768')

Middlesex: 6766' MD

Burkett: 6950' MD

Tully: 6999' MD

Marcellus POE: 7106' MD

Projected MD at TD: 14790'

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