



Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
Software System	WellArchitect® 5.0
North Reference	Grid
User	Hareluk
Scale	0.999602
Report Generated	7/12/2016 at 9:55:32 AM
Convergence at slot	0.10° East
Database/Source file	WA_MPL_EASTERNUS_Defm/Spellman_Unit_2H_AWP_Proj_15824_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1684490.11	14272033.24	39°18'08.198"N	80°50'39.126"W
Facility Reference Pt			1684490.11	14272033.24	39°18'08.198"N	80°50'39.126"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM		
Calculation method	Minimum curvature	Frontier 32 (RKB) to Facility Vertical Datum
Horizontal Reference Pt	Slot	Frontier 32 (RKB) to Mean Sea Level
Vertical Reference Pt	Frontier 32 (RKB)	Frontier 32 (RKB) to Mud Line at Slot (Slot #06)
MD Reference Pt	Frontier 32 (RKB)	Section Origin
Field Vertical Reference	Mean Sea Level	Section Azimuth
		32.00ft
		1167.00ft
		32.00ft
		N 0.00, E 0.00 ft
		162.04°

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 stations) † = interpolated/extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
0.00†	0.00	240.670	0.00	0.00	0.00	0.00	1684490.11	14272033.24	39°18'08.198"N	80°50'39.126"W	0.00	0.000	0.00	0.00	0.00	
32.00	0.00	240.670	32.00	0.00	0.00	0.00	1684490.11	14272033.24	39°18'08.198"N	80°50'39.126"W	0.00	0.000	0.00	0.00	0.00	
119.00	0.470	240.670	119.00	0.07	-0.17	-0.31	1684489.80	14272033.07	39°18'08.196"N	80°50'39.130"W	0.36	240.670	0.54	0.54	-137.16	SDI Std Keeper Gyro (119' - 5962')
144.00	0.520	241.300	144.00	0.11	-0.28	-0.50	1684489.61	14272032.96	39°18'08.195"N	80°50'39.132"W	0.57	240.795	0.20	0.20	2.52	
169.00	0.560	239.700	169.00	0.16	-0.40	-0.70	1684489.41	14272032.84	39°18'08.194"N	80°50'39.135"W	0.81	240.700	0.17	0.16	-6.40	
194.00	0.560	242.330	194.00	0.21	-0.51	-0.92	1684489.19	14272032.73	39°18'08.193"N	80°50'39.138"W	1.05	240.773	0.10	0.00	10.52	
219.00	0.490	247.670	219.00	0.23	-0.61	-1.13	1684488.98	14272032.63	39°18'08.192"N	80°50'39.140"W	1.28	241.496	0.34	-0.28	21.36	
244.00	0.500	255.970	244.00	0.24	-0.68	-1.33	1684488.78	14272032.56	39°18'08.191"N	80°50'39.143"W	1.49	242.983	0.29	0.04	33.20	
269.00	0.460	272.130	269.00	0.19	-0.70	-1.54	1684488.58	14272032.54	39°18'08.191"N	80°50'39.145"W	1.69	245.474	0.56	-0.16	64.64	
294.00	0.460	281.200	294.00	0.11	-0.68	-1.74	1684488.38	14272032.82	39°18'08.191"N	80°50'39.148"W	1.86	248.662	0.29	0.00	36.28	
319.00	0.480	283.170	319.00	0.01	-0.63	-1.94	1684488.18	14272032.61	39°18'08.192"N	80°50'39.151"W	2.04	251.851	0.10	0.08	7.88	
344.00	0.530	287.540	344.00	-0.11	-0.58	-2.15	1684487.96	14272032.66	39°18'08.192"N	80°50'39.153"W	2.22	254.993	0.25	0.20	17.48	
369.00	0.540	286.740	369.00	-0.25	-0.51	-2.37	1684487.74	14272032.73	39°18'08.193"N	80°50'39.156"W	2.42	257.929	0.05	0.04	-3.20	
394.00	0.560	292.530	394.00	-0.40	-0.43	-2.60	1684487.51	14272032.81	39°18'08.194"N	80°50'39.159"W	2.63	260.677	0.24	0.08	23.16	
419.00	0.860	299.780	419.00	-0.61	-0.29	-2.87	1684487.24	14272032.95	39°18'08.195"N	80°50'39.162"W	2.89	264.308	1.25	1.20	29.00	
444.00	1.270	305.660	444.00	-0.98	-0.03	-3.26	1684486.85	14272033.21	39°18'08.197"N	80°50'39.167"W	3.26	269.444	1.70	1.64	23.52	
469.00	1.670	307.410	469.00	-1.50	0.35	-3.77	1684486.34	14272033.59	39°18'08.201"N	80°50'39.174"W	3.79	275.316	1.61	1.60	7.00	
494.00	2.320	311.840	494.00	-2.24	0.91	-4.44	1684485.67	14272034.15	39°18'08.207"N	80°50'39.182"W	4.53	281.581	2.67	2.60	17.72	
519.00	2.930	312.440	519.00	-3.23	1.68	-5.29	1684484.82	14272034.92	39°18'08.214"N	80°50'39.193"W	5.55	287.608	2.44	2.44	2.40	
544.00	3.610	313.540	544.00	-4.48	2.65	-6.33	1684483.78	14272035.89	39°18'08.224"N	80°50'39.206"W	6.86	292.727	2.73	2.72	4.40	
569.00	4.450	313.690	569.00	-6.02	3.86	-7.60	1684482.51	14272037.10	39°18'08.236"N	80°50'39.223"W	8.53	296.941	3.36	3.36	0.60	
594.00	5.150	313.980	594.00	-7.86	5.31	-9.11	1684481.00	14272038.55	39°18'08.250"N	80°50'39.242"W	10.55	300.247	2.80	2.80	1.16	
619.00	5.900	315.310	619.00	-10.00	7.01	-10.82	1684479.29	14272040.24	39°18'08.263"W	80°50'39.263"W	12.89	302.915	3.04	3.00	5.32	
644.00	6.450	316.930	644.00	-12.42	8.95	-12.69	1684477.43	14272042.18	39°18'08.286"N	80°50'39.287"W	15.52	305.189	2.31	2.20	6.48	
669.00	6.730	319.030	669.00	-15.04	11.08	-14.61	1684475.51	14272044.31	39°18'08.307"N	80°50'39.311"W	18.33	307.178	1.48	1.12	8.40	
694.00	6.880	318.540	694.00	-17.76	13.31	-16.56	1684473.56	14272046.54	39°18'08.330"N	80°50'39.336"W	21.24	308.786	0.64	0.60	-1.96	
719.00	6.910	318.760	719.00	-20.52	15.56	-18.54	1684471.58	14272048.79	39°18'08.352"N	80°50'39.361"W	24.20	310.003	0.16	0.12	0.88	
744.00	7.000	319.060	744.00	-23.30	17.84	-20.53	1684469.59	14272051.07	39°18'08.374"N	80°50'39.387"W	27.20	310.990	0.39	0.36	1.20	
769.00	7.050	319.940	769.00	-26.12	20.16	-22.52	1684467.60	14272053.40	39°18'08.397"N	80°50'39.412"W	30.23	311.848	0.47	0.20	3.52	
794.00	7.130	320.410	792.39	-28.99	22.53	-24.49	1684465.63	14272055.77	39°18'08.421"N	80°50'39.437"W	33.28	312.618	0.40	0.32	1.88	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 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	ft	ft	°	°	ft	°	ft/100ft	ft/100ft	°/100ft	
819.00	7.110	321.700	817.20	-31.88	24.94	-26.44	1684463.68	14272058.17	39°18'08.445"N	80°50'39.462"W	36.35	313.334	0.64	-0.08	5.16	
844.00	7.200	321.490	842.01	-34.80	27.38	-28.37	1684461.75	14272060.61	39°18'08.469"N	80°50'39.486"W	39.43	313.984	0.37	0.36	-0.84	
869.00	7.210	321.130	866.81	-37.73	29.83	-30.33	1684459.79	14272063.06	39°18'08.493"N	80°50'39.511"W	42.54	314.523	0.18	0.04	-1.44	
894.00	7.150	320.810	891.61	-40.65	32.26	-32.30	1684457.82	14272065.49	39°18'08.517"N	80°50'39.536"W	45.65	314.963	0.29	-0.24	-1.28	
919.00	7.060	321.280	916.42	-43.53	34.66	-34.25	1684455.88	14272067.99	39°18'08.541"N	80°50'39.561"W	48.73	315.348	0.43	-0.36	-1.88	
944.00	6.820	320.330	941.24	-46.35	37.01	-36.15	1684453.97	14272070.23	39°18'08.564"N	80°50'39.585"W	51.73	315.667	1.06	-0.96	-3.80	
969.00	6.510	319.910	966.07	-49.04	39.23	-38.01	1684452.11	14272072.46	39°18'08.586"N	80°50'39.609"W	54.63	315.903	1.26	-1.24	-1.68	
994.00	6.370	319.320	990.91	-51.63	41.37	-39.83	1684450.30	14272074.59	39°18'08.607"N	80°50'39.632"W	57.43	316.085	0.62	-0.56	-2.36	
1019.00	6.230	317.700	1015.76	-54.15	43.42	-41.65	1684448.78	14272076.65	39°18'08.628"N	80°50'39.655"W	60.17	316.196	0.91	-0.56	-6.48	
1044.00	5.620	317.010	1040.63	-56.49	45.32	-43.40	1684446.73	14272078.54	39°18'08.646"N	80°50'39.677"W	62.75	316.244	2.46	-2.44	-2.76	
1069.00	5.400	315.830	1065.51	-58.66	47.06	-45.05	1684445.08	14272080.28	39°18'08.664"N	80°50'39.698"W	65.15	316.251	0.99	-0.88	-4.72	
1094.00	5.270	315.110	1090.40	-60.74	48.72	-46.68	1684443.45	14272081.94	39°18'08.680"N	80°50'39.719"W	67.47	316.224	0.58	-0.52	-2.88	
1119.00	5.340	314.300	1115.30	-62.79	50.34	-48.32	1684441.81	14272083.56	39°18'08.696"N	80°50'39.740"W	69.78	316.174	0.41	0.28	-3.24	
1144.00	5.420	314.270	1140.19	-64.87	51.98	-50.00	1684440.13	14272085.20	39°18'08.712"N	80°50'39.761"W	72.13	316.112	0.32	0.32	-0.12	
1169.00	5.380	315.430	1165.08	-66.96	53.64	-51.67	1684438.46	14272086.86	39°18'08.729"N	80°50'39.782"W	74.48	316.072	0.47	-0.16	4.64	
1194.00	5.200	317.690	1189.97	-69.04	55.31	-53.25	1684436.88	14272088.53	39°18'08.745"N	80°50'39.802"W	76.78	316.087	1.10	-0.72	9.04	
1219.00	5.040	321.100	1214.87	-71.10	57.00	-54.71	1684435.43	14272090.22	39°18'08.762"N	80°50'39.821"W	79.01	316.179	1.37	-0.64	13.64	
1244.00	4.800	325.280	1239.78	-73.12	58.72	-55.99	1684434.14	14272091.94	39°18'08.779"N	80°50'39.837"W	81.14	316.362	1.73	-0.96	16.72	
1269.00	4.620	328.340	1264.69	-75.10	60.44	-57.12	1684433.02	14272093.65	39°18'08.796"N	80°50'39.851"W	83.15	316.618	1.24	-0.72	12.24	
1294.00	4.630	331.180	1289.61	-77.07	62.18	-58.13	1684432.00	14272095.39	39°18'08.813"N	80°50'39.864"W	85.12	316.927	0.92	0.04	11.36	
1319.00	4.560	332.410	1314.53	-79.04	63.94	-59.08	1684431.06	14272097.16	39°18'08.831"N	80°50'39.876"W	87.06	317.265	0.48	-0.28	4.92	
1344.00	4.400	336.520	1339.45	-80.98	65.70	-59.92	1684430.21	14272098.92	39°18'08.848"N	80°50'39.887"W	88.92	317.636	1.43	-0.64	16.44	
1369.00	4.250	338.970	1364.38	-82.86	67.45	-60.63	1684429.50	14272100.66	39°18'08.865"N	80°50'39.896"W	90.69	318.045	0.95	-0.60	9.80	
1394.00	4.090	342.090	1389.32	-84.67	69.16	-61.24	1684428.89	14272102.37	39°18'08.882"N	80°50'39.903"W	92.38	318.475	1.11	-0.64	12.48	
1419.00	3.940	345.900	1414.26	-86.42	70.84	-61.72	1684428.41	14272104.05	39°18'08.899"N	80°50'39.910"W	93.96	318.934	1.22	-0.60	15.24	
1444.00	3.820	349.620	1439.20	-88.10	72.49	-62.08	1684428.05	14272105.70	39°18'08.915"N	80°50'39.914"W	95.44	319.423	1.12	-0.48	14.88	
1469.00	3.610	353.620	1464.15	-89.70	74.09	-62.32	1684427.81	14272107.30	39°18'08.931"N	80°50'39.917"W	96.82	319.933	1.33	-0.84	16.00	
1494.00	3.460	354.640	1489.10	-91.21	75.63	-62.48	1684427.66	14272108.84	39°18'08.946"N	80°50'39.919"W	98.10	320.439	0.65	-0.60	4.08	
1519.00	3.200	0.530	1514.06	-92.61	77.08	-62.54	1684427.59	14272110.29	39°18'08.961"N	80°50'39.920"W	99.26	320.943	1.72	-1.04	23.56	
1544.00	2.990	2.520	1539.02	-93.88	78.43	-62.51	1684427.63	14272111.63	39°18'08.974"N	80°50'39.919"W	100.29	321.444	0.94	-0.84	7.96	

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Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
1569.00	2.840	0.830	1563.99	-95.08	79.70	-62.47	1684427.67	14272112.90	39°18'08.987"N	80°50'39.919"W	101.26	321.909	0.69	-0.60	-6.76	
1594.00	2.680	359.400	1588.96	-96.22	80.90	-62.47	1684427.67	14272114.11	39°18'08.998"N	80°50'39.919"W	102.21	322.327	0.70	-0.64	-5.72	
1619.00	2.470	358.470	1613.93	-97.29	82.02	-62.49	1684427.65	14272115.23	39°18'09.010"N	80°50'39.919"W	103.11	322.699	0.86	-0.84	-3.72	
1644.00	2.270	359.040	1638.91	-98.28	83.06	-62.51	1684427.62	14272116.26	39°18'09.020"N	80°50'39.919"W	103.95	323.034	0.81	-0.80	2.28	
1669.00	1.890	356.820	1663.90	-99.16	83.96	-62.54	1684427.59	14272117.17	39°18'09.029"N	80°50'39.920"W	104.70	323.319	1.55	-1.52	-8.88	
1694.00	1.610	0.390	1668.88	-99.89	84.73	-62.56	1684427.57	14272117.93	39°18'09.036"N	80°50'39.920"W	105.32	323.558	1.20	-1.12	14.28	
1719.00	1.170	8.670	1713.88	-100.45	85.33	-62.52	1684427.61	14272118.54	39°18'09.042"N	80°50'39.919"W	105.78	323.770	1.93	-1.76	33.12	
1744.00	0.720	30.480	1738.87	-100.78	85.72	-62.40	1684427.73	14272118.92	39°18'09.046"N	80°50'39.918"W	106.03	323.945	2.27	-1.80	87.24	
1769.00	0.700	51.820	1763.87	-100.94	85.95	-62.20	1684427.93	14272119.15	39°18'09.048"N	80°50'39.915"W	106.09	324.105	1.05	-0.08	85.36	
1794.00	0.710	70.640	1788.87	-101.00	86.09	-61.94	1684428.20	14272119.30	39°18'09.050"N	80°50'39.912"W	106.06	324.268	0.92	0.04	75.28	
1819.00	0.840	78.450	1813.87	-100.98	86.18	-61.61	1684428.52	14272119.39	39°18'09.051"N	80°50'39.908"W	105.94	324.439	0.67	0.52	31.24	
1844.00	0.750	82.110	1838.86	-100.93	86.24	-61.27	1684428.86	14272119.45	39°18'09.052"N	80°50'39.903"W	105.79	324.608	0.41	-0.36	14.64	
1869.00	0.790	76.790	1863.86	-100.89	86.30	-60.94	1684429.19	14272119.51	39°18'09.051"N	80°50'39.899"W	105.65	324.773	0.33	0.16	-21.28	
1894.00	0.810	82.540	1888.86	-100.84	86.36	-60.60	1684429.54	14272119.57	39°18'09.052"N	80°50'39.895"W	105.50	324.945	0.33	0.08	23.00	
1919.00	0.790	81.350	1913.86	-100.78	86.41	-60.25	1684429.88	14272119.62	39°18'09.053"N	80°50'39.890"W	105.34	325.114	0.10	-0.08	-4.76	
1944.00	0.800	100.250	1938.86	-100.67	86.41	-59.91	1684430.23	14272119.61	39°18'09.053"N	80°50'39.886"W	105.14	325.265	1.04	0.04	75.60	
1969.00	0.920	113.420	1963.85	-100.46	86.30	-59.55	1684430.58	14272119.50	39°18'09.052"N	80°50'39.882"W	104.85	325.391	0.92	0.48	52.68	
1994.00	0.990	121.540	1988.85	-100.16	86.10	-59.18	1684430.95	14272119.31	39°18'09.050"N	80°50'39.877"W	104.48	325.497	0.61	0.28	32.48	
2019.00	1.190	132.000	2013.84	-99.77	85.82	-58.81	1684431.33	14272119.02	39°18'09.047"N	80°50'39.872"W	104.03	325.579	1.13	0.80	41.84	
2044.00	1.390	139.730	2038.84	-99.26	85.41	-58.42	1684431.71	14272118.62	39°18'09.043"N	80°50'39.867"W	103.48	325.629	1.06	0.80	30.92	
2069.00	1.550	144.320	2063.83	-98.66	84.91	-58.03	1684432.11	14272118.11	39°18'09.038"N	80°50'39.862"W	102.84	325.651	0.79	0.64	18.36	
2094.00	1.620	143.960	2088.82	-98.00	84.35	-57.62	1684432.51	14272117.55	39°18'09.032"N	80°50'39.857"W	102.15	325.661	0.28	0.28	-1.44	
2119.00	1.650	146.250	2113.81	-97.32	83.76	-57.21	1684432.92	14272116.95	39°18'09.027"N	80°50'39.852"W	101.44	325.665	0.29	0.12	9.16	
2144.00	1.680	148.920	2138.80	-96.62	83.15	-56.82	1684433.31	14272116.35	39°18'09.021"N	80°50'39.847"W	100.71	325.651	0.33	0.12	10.68	
2169.00	1.970	150.870	2163.79	-95.84	82.46	-56.43	1684433.71	14272115.67	39°18'09.014"N	80°50'39.842"W	99.92	325.617	1.19	1.16	7.80	
2194.00	2.040	157.300	2188.77	-94.97	81.67	-56.03	1684434.09	14272114.88	39°18'09.006"N	80°50'39.837"W	99.05	325.542	0.94	0.28	25.72	
2219.00	2.170	162.880	2213.75	-94.06	80.81	-55.73	1684434.40	14272114.02	39°18'08.997"N	80°50'39.833"W	98.17	325.407	0.97	0.52	22.32	
2244.00	2.280	166.730	2238.74	-93.09	79.87	-55.48	1684434.65	14272113.08	39°18'08.988"N	80°50'39.830"W	97.25	325.216	0.74	0.44	15.40	
2269.00	2.330	171.510	2263.72	-92.09	78.89	-55.29	1684434.84	14272112.10	39°18'08.978"N	80°50'39.826"W	96.33	324.974	0.79	0.20	19.12	
2294.00	2.390	173.880	2288.69	-91.08	77.87	-55.16	1684434.97	14272111.08	39°18'08.968"N	80°50'39.826"W	95.42	324.686	0.46	0.24	9.48	

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 stations)

ID	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	ft	°	°	ft	°	F/100ft	F/100ft	F/100ft	
2319.00	2.470	175.680	2313.67	-90.05	76.81	-55.06	1684435.07	14272110.02	39°18'08.958"N	80°50'39.825"W	94.51	324.364	0.44	0.32	7.20	
2344.00	2.500	174.790	2338.65	-88.99	75.73	-54.97	1684435.16	14272108.94	39°18'08.947"N	80°50'39.824"W	93.58	324.024	0.20	0.12	-3.56	
2369.00	2.490	176.960	2363.62	-87.94	74.65	-54.90	1684435.24	14272107.86	39°18'08.936"N	80°50'39.823"W	92.66	323.669	0.38	-0.04	8.68	
2394.00	2.350	187.620	2388.60	-86.95	73.59	-54.93	1684435.20	14272106.81	39°18'08.926"N	80°50'39.823"W	91.84	323.261	1.88	-0.56	42.64	
2419.00	2.350	193.110	2413.58	-86.05	72.59	-55.12	1684435.01	14272105.80	39°18'08.916"N	80°50'39.825"W	91.14	322.789	0.90	0.00	21.96	
2444.00	2.400	199.350	2438.56	-85.19	71.59	-55.41	1684434.72	14272104.81	39°18'08.906"N	80°50'39.825"W	90.53	322.263	1.05	0.20	24.96	
2469.00	2.510	207.190	2463.54	-84.39	70.61	-55.83	1684434.30	14272103.83	39°18'08.897"N	80°50'39.835"W	90.02	321.668	1.41	0.44	31.36	
2494.00	2.550	213.400	2488.51	-83.66	69.66	-56.39	1684433.74	14272102.87	39°18'08.887"N	80°50'39.842"W	89.62	321.012	1.11	0.16	24.84	
2519.00	2.570	216.360	2513.49	-82.98	68.75	-57.03	1684433.41	14272101.96	39°18'08.878"N	80°50'39.850"W	89.32	320.324	0.53	0.08	11.84	
2544.00	2.590	218.150	2538.46	-82.34	67.85	-57.71	1684432.43	14272101.07	39°18'08.869"N	80°50'39.859"W	89.07	319.620	0.32	0.04	7.16	
2569.00	2.570	219.590	2563.44	-81.73	66.98	-58.41	1684431.72	14272100.19	39°18'08.861"N	80°50'39.868"W	88.87	318.909	0.26	-0.04	5.76	
2594.00	2.510	218.610	2588.41	-81.12	66.12	-59.11	1684431.02	14272099.33	39°18'08.852"N	80°50'39.876"W	88.69	318.203	0.30	-0.24	-3.92	
2619.00	2.330	221.470	2613.39	-80.56	65.31	-59.79	1684430.35	14272098.52	39°18'08.844"N	80°50'39.885"W	88.54	317.527	0.87	-0.72	11.44	
2644.00	2.170	219.130	2638.37	-80.05	64.56	-60.42	1684429.71	14272097.78	39°18'08.837"N	80°50'39.893"W	88.43	316.897	0.74	-0.64	-9.36	
2669.00	2.070	219.320	2663.35	-79.55	63.85	-61.01	1684429.13	14272097.06	39°18'08.830"N	80°50'39.901"W	88.31	316.302	0.40	-0.40	0.76	
2694.00	2.030	220.520	2688.34	-79.07	63.16	-61.58	1684428.55	14272096.37	39°18'08.823"N	80°50'39.908"W	88.21	315.725	0.23	-0.16	4.80	
2719.00	1.900	221.210	2713.32	-78.63	62.51	-62.14	1684427.99	14272095.73	39°18'08.817"N	80°50'39.915"W	88.14	315.170	0.53	-0.52	2.76	
2744.00	1.770	221.270	2738.31	-78.22	61.91	-62.67	1684427.46	14272095.13	39°18'08.811"N	80°50'39.922"W	88.09	314.650	0.52	-0.52	0.24	
2769.00	1.660	222.720	2763.30	-77.84	61.35	-63.17	1684426.96	14272094.57	39°18'08.805"N	80°50'39.928"W	88.06	314.164	0.47	-0.44	5.80	
2794.00	1.540	224.810	2788.29	-77.51	60.85	-63.65	1684426.48	14272094.06	39°18'08.800"N	80°50'39.934"W	88.06	313.710	0.53	-0.48	8.36	
2819.00	1.480	223.990	2813.28	-77.21	60.38	-64.11	1684426.02	14272093.59	39°18'08.796"N	80°50'39.940"W	88.07	313.281	0.26	-0.24	-3.28	
2844.00	1.400	224.400	2838.27	-76.91	59.93	-64.55	1684425.58	14272093.14	39°18'08.791"N	80°50'39.946"W	88.08	312.873	0.32	-0.32	1.64	
2869.00	1.320	226.250	2863.27	-76.65	59.51	-64.97	1684425.16	14272092.73	39°18'08.787"N	80°50'39.951"W	88.11	312.487	0.36	-0.32	7.40	
2894.00	1.260	229.680	2888.26	-76.42	59.13	-65.39	1684424.74	14272092.35	39°18'08.783"N	80°50'39.956"W	88.16	312.123	0.39	-0.24	13.72	
2919.00	1.180	229.620	2913.25	-76.21	58.79	-65.80	1684424.34	14272092.01	39°18'08.780"N	80°50'39.962"W	88.24	311.781	0.32	-0.32	-0.24	
2944.00	1.060	229.210	2938.25	-76.03	58.47	-66.17	1684423.97	14272091.69	39°18'08.777"N	80°50'39.966"W	88.30	311.466	0.48	-0.48	-1.64	
2969.00	1.100	230.960	2963.25	-75.85	58.17	-66.53	1684423.61	14272091.39	39°18'08.774"N	80°50'39.971"W	88.37	311.164	0.21	0.16	7.00	
2994.00	1.060	232.070	2988.24	-75.68	57.88	-66.90	1684423.24	14272091.09	39°18'08.771"N	80°50'39.976"W	88.46	310.864	0.18	-0.16	4.44	
3019.00	0.990	236.660	3013.24	-75.55	57.62	-67.26	1684422.88	14272090.83	39°18'08.768"N	80°50'39.980"W	88.56	310.583	0.43	-0.28	18.36	
3044.00	0.950	235.250	3038.23	-75.43	57.38	-67.61	1684422.52	14272090.60	39°18'08.766"N	80°50'39.985"W	88.68	310.319	0.19	-0.16	-5.64	

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Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
3069.00	0.970	234.180	3063.23	-75.31	57.14	-67.95	1684422.18	14272090.35	39°18'08.764"N	80°50'39.989"W	88.78	310.057	0.11	0.08	-4.28	
3094.00	0.900	232.490	3088.23	-75.18	56.89	-68.28	1684421.86	14272090.11	39°18'08.761"N	80°50'39.993"W	88.88	309.801	0.30	-0.28	-6.76	
3119.00	0.800	236.950	3113.22	-75.06	56.68	-68.58	1684421.55	14272089.90	39°18'08.759"N	80°50'39.997"W	88.97	309.571	0.48	-0.40	17.84	
3144.00	0.790	239.610	3138.22	-74.98	56.50	-68.88	1684421.26	14272089.71	39°18'08.757"N	80°50'40.001"W	89.08	309.359	0.15	-0.04	10.64	
3169.00	0.750	240.730	3163.22	-74.91	56.33	-69.17	1684420.97	14272089.55	39°18'08.756"N	80°50'40.005"W	89.20	309.158	0.17	-0.16	4.48	
3194.00	0.710	238.770	3188.22	-74.84	56.17	-69.44	1684420.69	14272089.39	39°18'08.754"N	80°50'40.008"W	89.32	308.967	0.19	-0.16	-7.84	
3219.00	0.680	239.660	3213.21	-74.78	56.01	-69.71	1684420.43	14272089.23	39°18'08.753"N	80°50'40.011"W	89.42	308.784	0.13	-0.12	3.56	
3244.00	0.650	243.340	3238.21	-74.72	55.87	-69.96	1684420.18	14272089.09	39°18'08.751"N	80°50'40.015"W	89.53	308.613	0.21	-0.12	14.72	
3269.00	0.580	238.590	3263.21	-74.67	55.74	-70.19	1684419.94	14272088.96	39°18'08.750"N	80°50'40.018"W	89.64	308.455	0.35	-0.28	-19.00	
3294.00	0.630	241.770	3288.21	-74.62	55.61	-70.42	1684419.71	14272088.83	39°18'08.749"N	80°50'40.021"W	89.74	308.298	0.24	0.20	12.72	
3319.00	0.620	253.410	3313.21	-74.60	55.51	-70.67	1684419.46	14272088.73	39°18'08.748"N	80°50'40.024"W	89.87	308.147	0.51	-0.04	46.56	
3344.00	0.550	245.640	3338.21	-74.59	55.42	-70.91	1684419.22	14272088.64	39°18'08.747"N	80°50'40.027"W	90.00	308.009	0.42	-0.28	-31.08	
3369.00	0.440	252.200	3363.21	-74.57	55.34	-71.11	1684419.02	14272088.56	39°18'08.746"N	80°50'40.029"W	90.11	307.891	0.49	-0.44	26.24	
3394.00	0.480	255.370	3388.21	-74.58	55.29	-71.31	1684418.83	14272088.51	39°18'08.745"N	80°50'40.032"W	90.23	307.788	0.19	0.16	12.68	
3419.00	0.480	258.640	3413.21	-74.60	55.24	-71.51	1684418.63	14272088.46	39°18'08.745"N	80°50'40.034"W	90.36	307.685	0.11	0.00	13.08	
3444.00	0.410	258.970	3438.20	-74.62	55.20	-71.70	1684418.44	14272088.42	39°18'08.745"N	80°50'40.037"W	90.49	307.593	0.28	-0.28	1.32	
3469.00	0.400	259.010	3463.20	-74.64	55.17	-71.87	1684418.26	14272088.39	39°18'08.744"N	80°50'40.039"W	90.61	307.509	0.04	0.04	0.16	
3494.00	0.370	253.280	3488.20	-74.66	55.13	-72.04	1684418.10	14272088.35	39°18'08.744"N	80°50'40.041"W	90.71	307.426	0.20	-0.12	-22.92	
3519.00	0.410	253.370	3513.20	-74.66	55.08	-72.20	1684417.94	14272088.30	39°18'08.743"N	80°50'40.043"W	90.81	307.339	0.16	0.16	0.36	
3544.00	0.380	254.660	3538.20	-74.67	55.03	-72.37	1684417.77	14272088.25	39°18'08.743"N	80°50'40.045"W	90.91	307.252	0.13	-0.12	5.16	
3569.00	0.350	254.160	3563.20	-74.67	54.99	-72.52	1684417.62	14272088.21	39°18'08.742"N	80°50'40.047"W	91.01	307.172	0.12	-0.12	-2.00	
3594.00	0.390	252.500	3588.20	-74.68	54.94	-72.67	1684417.46	14272088.16	39°18'08.742"N	80°50'40.049"W	91.11	307.090	0.17	0.16	-6.64	
3619.00	0.430	261.410	3613.20	-74.69	54.90	-72.85	1684417.29	14272088.12	39°18'08.742"N	80°50'40.051"W	91.22	307.007	0.21	0.16	19.84	
3644.00	0.410	261.360	3638.20	-74.71	54.86	-73.03	1684417.11	14272088.08	39°18'08.741"N	80°50'40.054"W	91.34	306.917	0.14	-0.08	15.80	
3669.00	0.420	263.730	3663.20	-74.74	54.84	-73.21	1684416.93	14272088.06	39°18'08.741"N	80°50'40.056"W	91.47	306.837	0.08	0.04	9.48	
3694.00	0.370	263.900	3688.20	-74.78	54.82	-73.38	1684416.76	14272088.04	39°18'08.741"N	80°50'40.058"W	91.60	306.764	0.20	-0.20	0.68	
3719.00	0.400	263.410	3713.20	-74.81	54.80	-73.55	1684416.59	14272088.02	39°18'08.741"N	80°50'40.060"W	91.72	306.692	0.12	0.12	-1.96	
3744.00	0.360	275.550	3738.20	-74.86	54.80	-73.71	1684416.43	14272088.02	39°18'08.741"N	80°50'40.062"W	91.85	306.629	0.36	-0.16	48.56	
3769.00	0.400	272.920	3763.20	-74.92	54.81	-73.88	1684416.26	14272088.03	39°18'08.741"N	80°50'40.064"W	91.99	306.574	0.17	0.16	-10.52	
3794.00	0.440	281.290	3788.20	-75.00	54.84	-74.06	1684416.08	14272088.05	39°18'08.741"N	80°50'40.067"W	92.15	306.518	0.29	0.16	33.48	

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Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Balli Pad
Slot	Slot #06
Well	Spellman Unit 2H
Wellbore	Spellman Unit 2H AWB

WELLPATH DATA (355 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 (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
3819.00	0.450	284.290	3813.20	-75.10	54.88	-74.25	1684415.89	14272088.10	39°18'08.741"N	80°50'40.069"W	92.33	306.470	0.10	0.04	12.00	
3844.00	0.470	299.780	3838.19	-75.23	54.95	-74.43	1684415.71	14272088.17	39°18'08.742"N	80°50'40.072"W	92.52	306.440	0.50	0.08	61.96	
3869.00	0.420	289.610	3863.19	-75.36	55.04	-74.61	1684415.53	14272088.25	39°18'08.743"N	80°50'40.074"W	92.71	306.416	0.37	-0.20	-40.68	
3894.00	0.440	287.880	3888.19	-75.47	55.10	-74.78	1684415.36	14272088.31	39°18'08.744"N	80°50'40.076"W	92.89	306.381	0.10	0.08	-6.92	
3919.00	0.460	295.280	3913.19	-75.60	55.17	-74.97	1684415.17	14272088.39	39°18'08.744"N	80°50'40.078"W	93.08	306.350	0.25	0.08	29.60	
3944.00	0.380	292.410	3938.19	-75.72	55.24	-75.13	1684415.01	14272088.46	39°18'08.745"N	80°50'40.080"W	93.26	306.326	0.33	-0.32	-11.48	
3969.00	0.330	292.130	3963.19	-75.82	55.30	-75.28	1684414.86	14272088.52	39°18'08.746"N	80°50'40.082"W	93.41	306.303	0.20	-0.20	-1.12	
3994.00	0.380	302.080	3988.19	-75.93	55.37	-75.41	1684414.73	14272088.59	39°18'08.746"N	80°50'40.084"W	93.56	306.288	0.32	0.20	39.80	
4019.00	0.500	298.360	4013.19	-76.07	55.47	-75.58	1684414.56	14272088.69	39°18'08.747"N	80°50'40.086"W	93.75	306.275	0.49	0.48	-14.88	
4044.00	0.390	303.540	4038.19	-76.22	55.57	-75.75	1684414.39	14272088.79	39°18'08.748"N	80°50'40.088"W	93.94	306.264	0.47	-0.44	20.72	
4069.00	0.530	296.990	4063.19	-76.36	55.67	-75.92	1684414.22	14272088.88	39°18'08.749"N	80°50'40.090"W	94.14	306.250	0.60	0.56	-26.20	
4094.00	0.580	291.940	4088.19	-76.53	55.77	-76.14	1684414.00	14272088.98	39°18'08.750"N	80°50'40.093"W	94.38	306.220	0.28	0.20	-20.20	
4119.00	0.790	296.810	4113.19	-76.73	55.89	-76.41	1684413.73	14272089.11	39°18'08.751"N	80°50'40.097"W	94.67	306.184	0.87	0.84	19.48	
4144.00	0.660	295.770	4138.18	-76.95	56.03	-76.69	1684413.45	14272089.25	39°18'08.753"N	80°50'40.100"W	94.98	306.151	0.52	-0.52	-4.16	
4169.00	0.500	292.780	4163.18	-77.12	56.14	-76.93	1684413.22	14272089.35	39°18'08.754"N	80°50'40.103"W	95.23	306.120	0.65	-0.64	-11.96	
4194.00	0.610	290.970	4188.18	-77.28	56.23	-77.15	1684412.99	14272089.44	39°18'08.755"N	80°50'40.106"W	95.46	306.084	0.45	0.44	-7.24	
4219.00	0.550	294.240	4213.18	-77.44	56.32	-77.38	1684412.76	14272089.54	39°18'08.756"N	80°50'40.109"W	95.71	306.049	0.27	-0.24	13.08	
4244.00	0.510	305.270	4238.18	-77.61	56.44	-77.58	1684412.56	14272089.65	39°18'08.757"N	80°50'40.112"W	95.94	306.033	0.44	-0.16	44.12	
4269.00	0.500	310.900	4263.18	-77.79	56.57	-77.76	1684412.38	14272089.79	39°18'08.758"N	80°50'40.114"W	96.16	306.038	0.20	-0.04	22.52	
4294.00	0.650	295.520	4288.18	-77.98	56.71	-77.97	1684412.17	14272089.92	39°18'08.760"N	80°50'40.117"W	96.41	306.028	0.86	0.60	-61.52	
4319.00	0.610	288.170	4313.17	-78.16	56.81	-78.22	1684411.92	14272090.03	39°18'08.761"N	80°50'40.120"W	96.67	305.989	0.36	-0.16	-29.40	
4344.00	0.510	305.450	4338.17	-78.33	56.91	-78.44	1684411.70	14272090.13	39°18'08.762"N	80°50'40.122"W	96.91	305.964	0.78	-0.40	69.12	
4369.00	0.680	298.450	4363.17	-78.52	57.05	-78.66	1684411.48	14272090.27	39°18'08.763"N	80°50'40.125"W	97.17	305.952	0.74	0.68	-28.00	
4394.00	0.700	289.270	4388.17	-78.72	57.17	-78.93	1684411.21	14272090.39	39°18'08.764"N	80°50'40.129"W	97.46	305.915	0.45	0.08	-36.72	
4419.00	0.640	294.200	4413.17	-78.91	57.28	-79.21	1684410.94	14272090.49	39°18'08.765"N	80°50'40.132"W	97.75	305.872	0.33	-0.24	19.72	
4444.00	0.570	301.370	4438.17	-79.10	57.40	-79.44	1684410.70	14272090.62	39°18'08.766"N	80°50'40.135"W	98.01	305.850	0.41	-0.28	28.68	
4469.00	0.540	306.150	4463.17	-79.29	57.53	-79.64	1684410.50	14272090.75	39°18'08.768"N	80°50'40.138"W	98.25	305.845	0.22	-0.12	19.12	
4494.00	0.640	307.480	4488.16	-79.50	57.69	-79.85	1684410.29	14272090.91	39°18'08.769"N	80°50'40.140"W	98.51	305.848	0.40	0.40	5.32	
4519.00	1.020	333.820	4513.16	-79.83	57.97	-80.06	1684410.09	14272091.19	39°18'08.772"N	80°50'40.143"W	98.84	305.910	2.12	1.52	105.36	
4544.00	1.720	345.300	4538.15	-80.43	58.54	-80.25	1684409.89	14272091.75	39°18'08.778"N	80°50'40.145"W	99.33	306.108	2.99	2.80	45.92	

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
4569.00	3.460	351.090	4563.13	-81.55	59.64	-80.46	1684409.68	14272092.86	39°18'08.789"N	80°50'40.148"W	100.16	306.549	7.03	6.98	23.16	
4594.00	4.930	353.940	4588.06	-83.34	61.46	-80.69	1684409.45	14272094.67	39°18'08.807"N	80°50'40.151"W	101.43	307.294	5.94	5.88	11.40	
4619.00	6.260	356.380	4612.94	-85.72	63.89	-80.89	1684409.25	14272097.10	39°18'08.831"N	80°50'40.154"W	103.08	308.301	5.40	5.32	9.76	
4644.00	7.300	354.340	4637.77	-88.59	66.83	-81.13	1684409.01	14272100.04	39°18'08.860"N	80°50'40.157"W	105.11	309.477	4.27	4.16	-8.16	
4669.00	7.530	354.060	4662.56	-91.74	70.04	-81.46	1684408.68	14272103.25	39°18'08.881"N	80°50'40.161"W	107.43	310.688	0.93	0.92	-1.12	
4694.00	8.230	354.070	4687.32	-95.09	73.45	-81.81	1684408.33	14272106.66	39°18'08.925"N	80°50'40.165"W	109.95	311.915	2.80	2.80	0.04	
4719.00	8.580	354.050	4712.05	-98.67	77.08	-82.19	1684407.95	14272110.29	39°18'08.961"N	80°50'40.170"W	112.68	313.162	1.40	1.40	-0.08	
4744.00	8.560	354.480	4736.77	-102.31	80.79	-82.56	1684407.58	14272114.00	39°18'08.998"N	80°50'40.174"W	115.51	314.377	0.27	-0.08	1.72	
4769.00	8.680	354.440	4761.49	-105.97	84.52	-82.93	1684407.22	14272117.72	39°18'09.034"N	80°50'40.179"W	118.41	315.544	0.48	0.48	-0.16	
4794.00	8.930	354.550	4786.20	-109.71	88.33	-83.29	1684406.85	14272121.53	39°18'09.072"N	80°50'40.184"W	121.41	316.680	1.00	1.00	0.44	
4819.00	9.990	356.020	4810.86	-113.70	92.42	-83.63	1684406.51	14272125.62	39°18'09.113"N	80°50'40.188"W	124.64	317.859	4.35	4.24	5.88	
4844.00	10.680	357.780	4835.45	-118.04	96.90	-83.87	1684406.27	14272130.10	39°18'09.157"N	80°50'40.191"W	128.15	319.123	3.03	2.76	7.04	
4869.00	11.750	358.240	4859.97	-122.71	101.76	-84.04	1684406.11	14272134.96	39°18'09.205"N	80°50'40.193"W	131.97	320.449	4.29	4.28	1.84	
4894.00	12.550	359.510	4884.41	-127.75	107.02	-84.14	1684406.01	14272140.22	39°18'09.257"N	80°50'40.194"W	136.13	321.826	3.37	3.20	5.08	
4919.00	13.320	0.910	4908.78	-133.06	112.61	-84.12	1684406.03	14272145.81	39°18'09.312"N	80°50'40.193"W	140.56	323.243	3.33	3.08	5.60	
4944.00	13.700	1.140	4933.09	-138.59	118.45	-84.01	1684406.13	14272151.65	39°18'09.370"N	80°50'40.192"W	145.22	324.655	1.54	1.52	0.92	
4969.00	13.960	1.230	4957.36	-144.23	124.43	-83.89	1684406.26	14272157.62	39°18'09.429"N	80°50'40.190"W	150.07	326.013	1.04	1.04	0.36	
4994.00	14.200	1.620	4981.61	-149.97	130.51	-83.74	1684406.41	14272163.70	39°18'09.489"N	80°50'40.188"W	155.06	327.315	1.03	0.96	1.56	
5019.00	14.390	1.890	5005.84	-155.78	136.68	-83.55	1684406.60	14272169.86	39°18'09.550"N	80°50'40.186"W	160.19	328.564	0.81	0.76	1.08	
5044.00	14.890	2.700	5030.02	-161.71	142.99	-83.29	1684406.85	14272176.17	39°18'09.612"N	80°50'40.182"W	165.48	329.779	2.16	2.00	3.24	
5069.00	14.890	2.770	5054.18	-167.72	149.41	-82.99	1684407.16	14272182.59	39°18'09.676"N	80°50'40.178"W	170.91	330.951	0.07	0.00	0.28	
5094.00	14.750	2.580	5078.35	-173.70	155.80	-82.69	1684407.46	14272188.97	39°18'09.739"N	80°50'40.174"W	176.38	332.043	0.59	-0.56	-0.76	
5119.00	14.470	2.390	5102.54	-179.61	162.10	-82.41	1684407.73	14272195.27	39°18'09.801"N	80°50'40.171"W	181.84	333.050	1.14	-1.12	-0.76	
5144.00	14.020	4.390	5126.78	-185.34	168.24	-82.05	1684408.09	14272201.41	39°18'09.862"N	80°50'40.166"W	187.18	334.001	2.67	-1.80	8.00	
5169.00	13.970	4.950	5151.03	-190.92	174.26	-81.56	1684408.58	14272207.43	39°18'09.921"N	80°50'40.160"W	192.40	334.919	0.58	-0.20	2.24	
5194.00	13.980	5.720	5175.29	-196.47	180.27	-81.00	1684409.14	14272213.44	39°18'09.981"N	80°50'40.155"W	197.63	335.805	0.74	0.04	3.08	
5219.00	14.110	5.970	5199.55	-202.02	186.31	-80.38	1684409.76	14272219.47	39°18'10.041"N	80°50'40.144"W	202.91	336.663	0.57	0.52	1.00	
5244.00	14.020	5.640	5223.80	-207.58	192.35	-79.77	1684410.38	14272225.52	39°18'10.100"N	80°50'40.136"W	208.24	337.477	0.48	-0.36	-1.32	
5269.00	14.050	6.240	5248.05	-213.12	198.38	-79.14	1684411.00	14272231.54	39°18'10.160"N	80°50'40.128"W	213.59	338.252	0.59	0.12	2.40	
5294.00	14.150	6.730	5272.30	-218.66	204.43	-78.45	1684411.69	14272237.59	39°18'10.220"N	80°50'40.119"W	218.97	339.006	0.62	0.40	1.96	

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 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 [1/100ft]	Build Rate [1/100ft]	Turn Rate [1/100ft]	Comments
5319.00	14.190	5.880	296.54	224.24	210.52	77.78	1684412.36	14272243.67	39°18'10.280"N	80°50'40.111"W	224.43	839.722	0.85	0.16	-3.40	
5344.00	14.120	5.310	6320.78	229.85	216.60	77.18	1684412.96	14272249.76	39°18'10.340"N	80°50'40.103"W	229.94	840.387	0.62	-0.28	-2.28	
5369.00	13.560	4.430	5345.05	235.36	222.56	76.67	1684413.47	14272255.71	39°18'10.399"N	80°50'40.096"W	235.40	840.991	2.39	-2.24	-3.52	
5394.00	13.400	2.150	6369.36	240.79	228.38	76.34	1684413.80	14272261.53	39°18'10.456"N	80°50'40.092"W	240.80	841.517	2.22	-0.64	-9.12	
5419.00	13.000	2.760	5393.70	246.14	234.08	76.10	1684414.05	14272267.23	39°18'10.513"N	80°50'40.089"W	246.14	841.992	1.69	-1.60	2.44	
5444.00	12.700	3.650	6418.08	251.32	239.63	75.78	1684414.36	14272272.78	39°18'10.567"N	80°50'40.085"W	251.33	842.450	1.44	-1.20	3.56	
5469.00	12.490	3.570	6442.48	256.39	245.07	75.44	1684414.70	14272278.21	39°18'10.621"N	80°50'40.080"W	256.42	842.890	0.84	-0.84	-0.32	
5494.00	12.480	4.090	6466.88	261.41	250.47	75.08	1684415.06	14272283.61	39°18'10.675"N	80°50'40.076"W	261.48	843.313	0.45	-0.04	2.08	
5519.00	12.120	6.620	6491.31	266.30	255.77	74.59	1684415.55	14272288.90	39°18'10.727"N	80°50'40.069"W	266.42	843.743	2.59	-1.44	10.12	
5544.00	11.610	8.540	6515.78	270.94	260.86	73.91	1684416.23	14272294.00	39°18'10.777"N	80°50'40.060"W	271.13	844.181	2.58	-2.04	7.68	
5569.00	11.070	9.860	6540.29	275.31	265.71	73.12	1684417.01	14272299.85	39°18'10.825"N	80°50'40.050"W	275.59	844.613	2.40	-2.16	5.28	
5594.00	10.610	10.100	6564.84	279.47	270.34	72.31	1684417.83	14272303.48	39°18'10.871"N	80°50'40.040"W	279.85	845.025	1.85	-1.84	0.96	
5619.00	10.390	8.510	6589.42	283.52	274.84	71.57	1684418.57	14272307.97	39°18'10.915"N	80°50'40.030"W	284.01	845.403	1.46	-0.88	-6.36	
5644.00	10.030	7.460	6614.03	287.50	279.23	70.96	1684419.18	14272312.36	39°18'10.959"N	80°50'40.022"W	288.10	845.742	1.62	-1.44	-4.20	
5669.00	9.740	8.240	6638.66	291.37	283.48	70.37	1684419.77	14272316.61	39°18'11.001"N	80°50'40.015"W	292.08	846.059	1.28	-1.16	3.12	
5694.00	9.260	8.450	6663.31	295.06	287.56	69.77	1684420.37	14272320.69	39°18'11.041"N	80°50'40.007"W	295.91	846.362	1.92	-1.92	0.84	
5719.00	8.770	7.930	6688.00	298.58	291.44	69.21	1684420.92	14272324.56	39°18'11.079"N	80°50'40.000"W	299.55	846.640	1.99	-1.96	-2.08	
5744.00	8.590	7.400	6712.72	301.98	295.18	68.71	1684421.43	14272328.30	39°18'11.116"N	80°50'39.994"W	303.07	846.896	0.79	-0.72	-2.12	
5769.00	8.370	3.940	6737.45	305.36	298.85	68.34	1684421.79	14272331.97	39°18'11.153"N	80°50'39.989"W	306.56	847.118	2.22	-0.88	-13.84	
5794.00	7.880	658.940	6762.19	308.69	302.37	68.25	1684421.89	14272335.49	39°18'11.187"N	80°50'39.988"W	309.98	847.280	3.44	-1.96	-20.00	
5819.00	7.570	854.770	6787.97	311.93	305.73	68.43	1684421.70	14272338.84	39°18'11.221"N	80°50'39.990"W	313.29	847.383	2.56	-1.24	-16.68	
5844.00	7.050	852.160	6811.76	315.05	308.89	68.79	1684421.34	14272342.47	39°18'11.252"N	80°50'39.994"W	316.45	847.445	2.47	-2.08	-10.44	
5869.00	6.220	854.370	6836.60	317.88	311.75	69.13	1684421.00	14272344.87	39°18'11.280"N	80°50'39.999"W	319.33	847.496	3.47	-3.32	8.84	
5894.00	5.150	854.180	6861.47	320.30	314.22	69.38	1684420.76	14272347.33	39°18'11.305"N	80°50'40.002"W	321.79	847.549	4.28	-4.28	-0.76	
5919.00	3.810	856.320	6886.40	322.20	316.16	69.55	1684420.59	14272349.28	39°18'11.324"N	80°50'40.004"W	323.72	847.594	5.40	-5.36	8.56	
5944.00	2.740	852.740	6911.36	323.60	317.59	69.68	1684420.46	14272350.70	39°18'11.338"N	80°50'40.005"W	325.14	847.626	4.36	-4.28	-14.32	
5969.00	1.510	852.550	6929.34	324.25	318.25	69.76	1684420.38	14272351.36	39°18'11.344"N	80°50'40.006"W	325.80	847.636	6.83	-6.83	-1.06	
6087.00	1.020	98.430	6054.33	324.98	318.83	70.33	1684419.81	14272351.94	39°18'11.350"N	80°50'40.014"W	326.49	847.561	1.97	-0.39	-123.30	BH AT Curve [SS+MSA] <8-1/2'> (6962) (6087-15E
6131.00	1.860	191.240	6098.32	324.04	317.75	70.59	1684419.55	14272350.87	39°18'11.340"N	80°50'40.017"W	325.50	847.475	1.95	1.91	-16.34	
6182.00	5.200	176.160	6149.21	321.07	314.63	70.60	1684419.54	14272347.75	39°18'11.309"N	80°50'40.017"W	322.46	847.354	6.74	6.55	-29.57	

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Balli Pad
Slot	Slot #06
Well	Spellman Unit 2H
Wellbore	Spellman Unit 2H AWB

WELLPATH DATA (355 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
6229.00	10.160	173.260	6195.78	-314.94	308.39	-69.97	1684420.17	14272341.51	39°18'11.247"N	80°50'40.009"W	316.23	347.217	10.58	10.55	10.55	-6.17
6277.00	14.850	170.840	6242.63	-304.70	298.11	-68.49	1684421.65	14272331.23	39°18'11.145"N	80°50'39.991"W	305.87	347.061	9.83	9.77	9.77	-5.04
6325.00	19.210	168.010	6288.51	-290.76	284.30	-65.87	1684424.27	14272317.43	39°18'11.009"N	80°50'39.958"W	291.83	346.955	9.24	9.08	9.08	-5.90
6371.00	23.840	165.300	6331.29	-273.94	267.90	-61.94	1684428.20	14272301.03	39°18'10.847"N	80°50'39.908"W	274.97	346.982	10.29	10.07	10.07	-5.89
6418.00	28.850	163.980	6373.40	-253.11	247.80	-56.39	1684433.74	14272280.94	39°18'10.648"N	80°50'39.838"W	254.14	347.179	10.73	10.66	10.66	-2.81
6467.00	35.160	163.060	6414.93	-227.17	222.91	-49.01	1684441.12	14272256.07	39°18'10.402"N	80°50'39.745"W	228.24	347.600	12.92	12.88	12.88	-1.88
6469.00†	35.413	163.020	6416.56	-226.01	221.81	-48.68	1684441.45	14272254.96	39°18'10.391"N	80°50'39.740"W	227.09	347.623	12.72	12.67	12.67	-2.00
6513.00	40.990	162.250	6451.12	-198.81	195.85	-40.55	1684449.58	14272229.01	39°18'10.134"N	80°50'39.637"W	200.01	348.303	12.72	12.67	12.67	-1.75
6560.00	46.870	161.810	6484.96	-166.22	164.85	-30.48	1684459.64	14272198.03	39°18'09.828"N	80°50'39.510"W	167.65	348.523	12.53	12.51	12.51	-0.94
6641.00†	56.333	162.617	6535.46	-103.00	104.65	-11.20	1684478.91	14272137.85	39°18'09.232"N	80°50'39.266"W	105.25	353.891	13.00	12.98	12.98	0.93
6654.00	58.020	162.730	6542.50	-92.08	94.22	-7.95	1684482.17	14272127.42	39°18'09.129"N	80°50'39.225"W	94.56	355.179	13.00	12.98	12.98	0.87
6695.00†	62.554	162.503	6582.82	-56.48	60.25	2.69	1684492.80	14272093.46	39°18'08.793"N	80°50'39.090"W	60.31	2.557	11.07	11.06	11.06	-0.55
6705.00	63.660	162.450	6587.34	-47.57	51.74	5.38	1684495.48	14272084.96	39°18'08.709"N	80°50'39.056"W	52.02	5.931	11.07	11.06	11.06	-0.53
6749.00	68.320	162.180	6585.24	-7.38	13.46	17.48	1684507.69	14272046.70	39°18'08.331"N	80°50'38.902"W	22.15	52.563	10.61	10.59	10.59	-0.61
6787.00†	71.017	162.180	6598.44	28.25	-20.46	28.49	1684518.59	14272012.79	39°18'07.995"N	80°50'38.764"W	35.07	125.683	7.10	7.10	7.10	0.00
6801.00	72.010	162.180	6602.88	41.52	-33.10	32.55	1684522.65	14272000.16	39°18'07.870"N	80°50'38.713"W	46.42	135.478	7.10	7.10	7.10	0.00
6844.00	77.450	162.030	6614.20	82.99	-72.56	45.29	1684535.38	14271960.71	39°18'07.480"N	80°50'38.551"W	85.53	148.026	12.66	12.65	12.65	-0.35
6895.00	84.150	162.610	6622.35	133.30	-120.50	60.57	1684550.66	14271912.79	39°18'07.006"N	80°50'38.358"W	134.86	153.312	13.19	13.14	13.14	1.14
6939.00	89.810	162.790	6624.67	177.22	-162.43	73.63	1684563.71	14271870.87	39°18'06.591"N	80°50'38.193"W	178.34	155.615	12.87	12.86	12.86	0.41
7034.00	89.870	161.130	6624.94	272.22	-252.76	103.05	1684593.12	14271780.58	39°18'05.698"N	80°50'37.821"W	272.96	157.819	1.75	1.75	1.75	-1.75
7128.00	89.840	161.190	6625.17	366.21	-341.72	133.41	1684623.46	14271691.66	39°18'04.818"N	80°50'37.436"W	366.84	158.675	0.07	-0.03	0.06	0.06
7224.00	90.030	161.890	6625.28	462.20	-432.78	163.80	1684653.85	14271600.63	39°18'03.917"N	80°50'37.052"W	462.74	159.269	0.76	0.20	0.73	0.73
7320.00	89.810	155.560	6625.42	557.99	-522.19	198.62	1684688.65	14271511.26	39°18'03.033"N	80°50'36.611"W	558.69	159.175	6.60	-0.23	-6.59	-6.59
7415.00	89.510	154.250	6625.98	652.25	-608.22	238.91	1684728.92	14271425.26	39°18'02.182"N	80°50'36.100"W	653.46	158.555	1.41	-0.32	-1.38	-1.38
7509.00	88.860	161.600	6627.32	745.94	-695.26	274.21	1684764.21	14271338.26	39°18'01.321"N	80°50'35.653"W	747.38	158.476	7.85	-0.69	7.82	7.82
7604.00	89.600	163.050	6628.20	840.92	-785.77	303.05	1684793.04	14271247.79	39°18'00.426"N	80°50'35.288"W	842.18	158.910	1.71	0.78	1.53	1.53
7698.00	89.380	160.370	6629.43	934.91	-875.01	332.54	1684822.52	14271158.58	39°17'59.544"N	80°50'34.915"W	936.07	159.191	2.86	-0.23	-2.85	-2.85
7792.00	89.070	163.150	6630.70	1028.89	-964.27	361.96	1684851.93	14271089.36	39°17'58.661"N	80°50'34.543"W	1029.96	159.425	2.98	-0.33	2.96	2.96
7888.00	89.260	166.330	6632.10	1124.76	-1056.86	387.22	1684877.18	14270976.80	39°17'57.745"N	80°50'34.224"W	1125.56	159.878	3.32	0.20	3.31	3.31

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
7982.00	89.630	162.630	6633.01	1218.65	-1147.41	412.37	1684902.31	14270886.29	39°17'56.850"N	80°50'33.906"W	1219.26	160.232	3.96	0.39	-3.94	
8078.00	89.470	158.050	6633.77	1314.58	-1237.79	444.66	1684934.59	14270795.95	39°17'55.956"N	80°50'33.497"W	1315.23	160.240	4.77	-0.17	-4.77	
8172.00	89.470	160.650	6634.64	1408.47	-1325.74	477.80	1684967.72	14270708.03	39°17'55.086"N	80°50'33.077"W	1409.21	160.181	2.77	0.00	2.77	
8267.00	89.560	164.390	6635.44	1503.44	-1416.33	506.33	1684996.24	14270617.47	39°17'54.191"N	80°50'32.716"W	1504.12	160.328	3.94	0.09	3.94	
8363.00	89.260	163.250	6636.43	1599.39	-1508.52	533.08	1685022.98	14270525.32	39°17'53.279"N	80°50'32.378"W	1599.94	160.538	1.23	-0.31	-1.19	
8457.00	89.720	165.670	6637.27	1693.30	-1599.08	558.26	1685048.15	14270434.80	39°17'52.383"N	80°50'32.060"W	1693.72	160.755	2.62	0.49	2.57	
8552.00	89.590	167.190	6637.84	1788.01	-1691.42	580.55	1685070.43	14270342.50	39°17'51.470"N	80°50'31.778"W	1788.28	161.056	1.61	-0.14	1.60	
8646.00	89.810	166.760	6638.33	1881.66	-1783.00	601.73	1685091.60	14270250.95	39°17'50.565"N	80°50'31.511"W	1881.80	161.351	0.51	0.23	-0.46	
8740.00	89.960	160.510	6638.52	1975.58	-1873.15	628.21	1685118.07	14270160.84	39°17'48.793"N	80°50'30.794"W	1975.68	161.460	6.65	0.16	-6.65	
8834.00	89.590	161.990	6638.89	2069.57	-1962.15	658.42	1685148.27	14270071.87	39°17'48.793"N	80°50'30.794"W	2069.68	161.450	1.62	-0.39	1.57	
8929.00	89.470	161.320	6639.67	2164.56	-2052.32	688.32	1685178.15	14269981.74	39°17'47.901"N	80°50'30.416"W	2164.67	161.459	0.72	-0.13	-0.71	
9024.00	89.400	156.580	6640.61	2259.39	-2140.95	722.43	1685212.25	14269893.14	39°17'47.025"N	80°50'29.984"W	2259.55	161.354	4.99	-0.07	-4.98	
9119.00	89.310	158.650	6641.68	2354.10	-2228.78	758.61	1685248.41	14269805.35	39°17'46.156"N	80°50'29.526"W	2354.35	161.203	2.18	-0.09	2.18	
9215.00	89.500	161.680	6642.67	2450.03	-2319.07	791.17	1685280.97	14269715.09	39°17'45.263"N	80°50'29.113"W	2450.32	161.162	3.16	0.20	3.16	
9309.00	89.930	161.640	6643.14	2544.03	-2408.30	820.75	1685310.53	14269625.91	39°17'44.381"N	80°50'28.739"W	2544.31	161.181	0.46	0.46	-0.04	
9404.00	89.000	159.360	6644.03	2638.98	-2497.84	852.46	1685342.23	14269536.40	39°17'43.495"N	80°50'28.338"W	2639.29	161.156	2.59	-0.98	-2.40	
9498.00	89.400	159.180	6645.34	2732.86	-2585.74	885.73	1685375.48	14269448.53	39°17'42.626"N	80°50'27.917"W	2733.24	161.091	0.47	0.43	-0.19	
9594.00	88.480	161.510	6647.12	2828.80	-2676.13	918.01	1685407.75	14269358.18	39°17'41.732"N	80°50'27.508"W	2829.20	161.066	2.61	-0.96	2.43	
9689.00	88.970	161.700	6649.23	2923.77	-2766.25	947.98	1685437.71	14269268.10	39°17'40.841"N	80°50'27.129"W	2924.18	161.084	0.52	0.52	0.20	
9784.00	88.730	163.350	6651.14	3018.74	-2856.84	976.50	1685466.22	14269177.54	39°17'39.945"N	80°50'26.768"W	3019.12	161.129	1.75	-0.25	1.74	
9879.00	89.250	157.280	6652.81	3113.64	-2946.24	1008.48	1685498.19	14269088.18	39°17'39.061"N	80°50'26.363"W	3114.06	161.104	6.41	0.55	-6.39	
9973.00	88.970	159.480	6654.27	3207.43	-3033.61	1043.11	1685532.80	14269000.85	39°17'38.197"N	80°50'25.925"W	3207.94	161.024	2.36	-0.30	2.34	
10068.00	88.760	165.040	6656.16	3302.38	-3124.04	1072.04	1685561.72	14268910.45	39°17'37.302"N	80°50'25.559"W	3302.86	161.020	5.86	-0.22	5.85	
10163.00	89.030	168.600	6657.99	3397.01	-3216.50	1093.69	1685583.37	14268818.02	39°17'36.388"N	80°50'25.286"W	3397.36	161.221	3.76	0.28	3.75	
10258.00	89.830	165.890	6658.94	3491.61	-3309.14	1114.67	1685604.33	14268725.42	39°17'35.472"N	80°50'25.021"W	3491.83	161.384	2.97	0.84	-2.85	
10352.00	88.690	167.180	6660.15	3585.31	-3400.55	1136.55	1685626.21	14268634.05	39°17'34.568"N	80°50'24.745"W	3585.45	161.519	1.83	-1.21	1.37	
10447.00	89.990	167.960	6661.24	3679.85	-3493.31	1157.00	1685646.64	14268541.32	39°17'33.651"N	80°50'24.487"W	3679.93	161.675	1.60	1.37	0.82	
10542.00	89.620	164.790	6661.57	3774.57	-3585.63	1179.37	1685669.01	14268449.05	39°17'32.738"N	80°50'24.204"W	3774.60	161.793	3.36	-0.39	-3.34	
10637.00	89.310	161.720	6662.45	3869.53	-3676.58	1206.74	1685696.37	14268358.13	39°17'31.839"N	80°50'23.858"W	3869.56	161.829	3.25	-0.33	-3.23	
10731.00	89.190	159.430	6663.69	3963.49	-3765.22	1238.00	1685727.61	14268269.53	39°17'30.962"N	80°50'23.462"W	3963.52	161.799	2.44	-0.13	-2.44	

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
10825.00	88.660	161.110	6665.45	4057.42	-3853.68	1269.72	1685759.32	14268181.10	39°17'30.087"N	80°50'23.061"W	4057.47	161.764	1.87	-0.56	1.79	
10921.00	89.060	159.460	6667.36	4153.35	-3944.03	1302.10	1685791.89	14268090.78	39°17'29.194"N	80°50'22.651"W	4153.42	161.730	1.77	0.42	-1.72	
11015.00	88.850	161.030	6669.07	4247.29	-4032.48	1333.87	1685823.44	14268002.37	39°17'28.319"N	80°50'22.249"W	4247.37	161.697	1.68	-0.22	1.67	
11111.00	89.030	158.460	6670.85	4343.19	-4122.52	1367.09	1685856.66	14267912.36	39°17'27.428"N	80°50'21.829"W	4343.29	161.654	2.68	0.19	-2.68	
11205.00	88.600	159.580	6672.79	4437.04	-4210.27	1400.74	1685890.29	14267824.55	39°17'26.560"N	80°50'21.403"W	4437.17	161.598	1.28	-0.46	1.19	
11299.00	88.510	160.780	6675.16	4530.96	-4298.67	1432.60	1685922.14	14267736.28	39°17'25.686"N	80°50'20.999"W	4531.11	161.569	1.28	-0.10	1.28	
11395.00	88.770	162.770	6677.49	4626.92	-4389.83	1462.62	1685952.14	14267645.17	39°17'24.785"N	80°50'20.620"W	4627.08	161.573	2.08	0.22	2.07	
11490.00	88.880	163.480	6679.47	4721.88	-4480.72	1490.19	1685979.70	14267554.32	39°17'23.886"N	80°50'20.271"W	4722.02	161.604	0.77	0.17	0.75	
11585.00	88.570	162.960	6683.96	4911.81	-4662.21	1546.21	1686005.70	14267463.54	39°17'22.988"N	80°50'19.919"W	4816.97	161.631	1.11	-0.33	-1.06	
11680.00	88.750	163.660	6686.16	5005.76	-4752.22	1573.20	1686062.88	14267372.89	39°17'22.091"N	80°50'19.563"W	4911.92	161.652	0.52	0.00	0.52	
11774.00	88.850	162.130	6688.15	5100.73	-4843.00	1601.14	1686090.61	14267282.92	39°17'21.201"N	80°50'19.221"W	5005.86	161.683	0.77	0.19	0.74	
11869.00	88.540	162.570	6690.31	5195.70	-4933.50	1629.93	1686119.39	14267192.18	39°17'20.303"N	80°50'18.868"W	5100.81	161.706	1.61	0.11	-1.61	
11964.00	88.690	163.240	6692.58	5289.66	-5023.32	1657.56	1686147.00	14267101.71	39°17'19.408"N	80°50'18.504"W	5195.78	161.717	0.57	-0.33	0.46	
12058.00	89.000	162.270	6694.50	5384.63	-5114.03	1685.71	1686175.15	14266921.25	39°17'18.520"N	80°50'18.155"W	5289.73	161.739	0.73	0.16	0.71	
12153.00	88.970	161.480	6696.16	5478.62	-5203.36	1714.95	1686204.38	14266831.97	39°17'17.623"N	80°50'17.799"W	5384.70	161.756	1.07	0.33	-1.02	
12247.00	89.000	159.890	6697.85	5573.57	-5292.99	1746.37	1686235.78	14266742.37	39°17'16.740"N	80°50'17.429"W	5478.68	161.759	0.84	-0.03	-0.84	
12342.00	89.270	161.900	6699.27	5667.54	-5381.80	1777.13	1686266.53	14266653.59	39°17'15.853"N	80°50'17.031"W	5573.65	161.740	1.67	0.03	-1.67	
12436.00	89.180	164.230	6700.54	5761.51	-5471.71	1804.50	1686293.89	14266563.72	39°17'14.975"N	80°50'16.642"W	5667.62	161.726	2.16	0.29	2.14	
12530.00	89.240	163.080	6701.83	5855.48	-5561.90	1830.96	1686320.33	14266473.56	39°17'14.086"N	80°50'16.296"W	5761.58	161.748	2.48	-0.10	2.48	
12624.00	89.550	163.590	6702.84	5950.43	-5652.90	1858.20	1686347.56	14266382.60	39°17'13.194"N	80°50'15.962"W	5855.52	161.779	1.22	0.06	-1.22	
12719.00	89.460	165.730	6703.66	6045.32	-5744.51	1883.33	1686372.68	14266291.03	39°17'12.294"N	80°50'15.617"W	5950.48	161.804	0.63	0.33	0.54	
12814.00	89.430	166.130	6704.58	6140.10	-5836.66	1908.42	1686395.77	14266200.33	39°17'11.388"N	80°50'15.300"W	6045.35	161.848	2.25	-0.09	2.25	
12909.00	89.400	163.200	6705.55	6234.98	-5928.26	1931.54	1686420.88	14266108.92	39°17'10.477"N	80°50'15.008"W	6140.11	161.911	0.42	-0.03	0.42	
13004.00	89.610	162.390	6706.37	6329.97	-6019.00	1958.64	1686448.97	14266016.84	39°17'09.571"N	80°50'14.691"W	6234.99	161.953	3.08	-0.03	-3.08	
13194.00	89.580	160.350	6707.04	6424.96	-6109.02	1989.99	1686479.30	14265926.66	39°17'08.674"N	80°50'14.336"W	6329.98	161.966	0.88	0.22	-0.85	
13288.00	89.550	160.170	6707.75	6518.91	-6197.49	2021.73	1686511.04	14265838.23	39°17'07.783"N	80°50'13.952"W	6424.96	161.957	2.15	-0.03	-2.15	
13383.00	89.460	160.690	6708.57	6613.87	-6287.00	2053.55	1686542.84	14265748.75	39°17'06.908"N	80°50'13.550"W	6518.92	161.933	0.19	-0.03	-0.19	
13477.00	89.430	161.790	6709.48	6707.85	-6376.00	2083.78	1686573.06	14265659.79	39°17'06.023"N	80°50'13.147"W	6613.88	161.911	0.56	-0.09	0.55	
13572.00	89.240	161.660	6710.59	6802.84	-6466.20	2113.57	1686602.84	14265569.62	39°17'05.143"N	80°50'12.765"W	6707.87	161.902	1.17	-0.03	1.17	
									39°17'04.251"N	80°50'12.388"W	6802.86	161.899	0.24	-0.20	-0.14	

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Actual Wellpath Report

Spellman Unit 2H AWP Proj: 15824'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddridge Co., WV	Well	Spellman Unit 2H
Field	Doddridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

WELLPATH DATA (355 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 (F/100ft)	Build Rate (F/100ft)	Turn Rate (F/100ft)	Comments
13666.00	89.060	163.640	6711.98	6896.82	-6555.91	2141.60	1686630.85	14265479.95	39°17'03.364"N	80°50'12.034"W	6896.84	161.910	2.11	-0.19	2.11	
13762.00	88.230	163.320	6714.25	6992.77	-6647.92	2168.89	1686658.13	14265387.98	39°17'02.454"N	80°50'11.689"W	6992.78	161.931	0.93	-0.86	-0.33	
13856.00	88.440	163.470	6716.98	7086.70	-6737.96	2195.74	1686684.97	14265297.97	39°17'01.563"N	80°50'11.349"W	7086.71	161.950	0.27	0.22	0.16	
13951.00	89.240	162.360	6718.91	7181.67	-6828.75	2223.64	1686712.86	14265207.22	39°17'00.666"N	80°50'10.997"W	7181.67	161.963	1.44	0.84	-1.17	
14045.00	89.300	159.500	6720.10	7275.63	-6917.58	2254.35	1686743.56	14265118.43	39°16'59.787"N	80°50'10.608"W	7275.64	161.950	3.04	0.06	-3.04	
14139.00	89.060	161.550	6721.45	7369.58	-7006.18	2285.68	1686774.88	14265029.86	39°16'58.911"N	80°50'10.212"W	7369.60	161.932	2.20	-0.26	2.18	
14234.00	89.610	159.460	6722.55	7464.54	-7095.73	2317.38	1686806.57	14264940.35	39°16'58.025"N	80°50'09.811"W	7464.56	161.914	2.27	0.58	-2.20	
14328.00	88.840	158.490	6723.82	7558.39	-7183.46	2351.10	1686840.27	14264852.65	39°16'57.158"N	80°50'09.384"W	7558.42	161.877	1.32	-0.82	-1.03	
14423.00	89.030	160.390	6725.59	7653.27	-7272.39	2384.46	1686873.62	14264763.76	39°16'56.278"N	80°50'08.962"W	7653.32	161.847	2.01	0.20	2.00	
14517.00	89.150	160.650	6727.08	7747.23	-7361.00	2415.80	1686904.95	14264675.19	39°16'55.402"N	80°50'08.565"W	7747.28	161.831	0.30	0.13	0.28	
14613.00	89.090	156.720	6728.56	7843.03	-7450.40	2450.69	1686939.82	14264585.82	39°16'54.517"N	80°50'08.124"W	7843.11	161.792	4.09	-0.06	-4.09	
14707.00	89.090	156.680	6730.05	7936.61	-7536.72	2487.86	1686976.98	14264499.53	39°16'53.663"N	80°50'07.653"W	7936.73	161.732	0.04	0.00	-0.04	
14802.00	89.060	159.840	6731.58	8031.38	-7624.94	2523.04	1687012.14	14264411.34	39°16'52.791"N	80°50'07.207"W	8031.53	161.691	3.33	-0.03	3.33	
14896.00	89.090	160.010	6733.10	8125.31	-7713.22	2555.30	1687044.39	14264323.10	39°16'51.918"N	80°50'06.799"W	8125.48	161.671	0.18	0.03	0.18	
14990.00	89.060	163.500	6734.62	8219.28	-7802.47	2594.72	1687073.80	14264233.89	39°16'51.035"N	80°50'06.427"W	8219.45	161.672	3.71	-0.03	3.71	
15085.00	89.180	164.890	6736.08	8314.20	-7893.87	2630.59	1687099.66	14264142.53	39°16'50.131"N	80°50'06.100"W	8314.34	161.700	1.47	0.13	1.46	
15180.00	89.150	164.710	6737.46	8409.08	-7985.53	2635.50	1687124.56	14264050.90	39°16'49.225"N	80°50'05.786"W	8409.20	161.735	0.19	-0.03	-0.19	
15275.00	89.270	166.670	6738.77	8503.87	-8077.57	2658.98	1687148.02	14263958.90	39°16'48.315"N	80°50'05.488"W	8503.96	161.779	2.07	0.13	2.06	
15370.00	89.490	165.810	6739.80	8598.61	-8169.84	2681.57	1687170.61	14263866.67	39°16'47.402"N	80°50'05.204"W	8598.67	161.829	0.93	0.23	-0.91	
15465.00	89.490	161.060	6740.65	8693.55	-8260.87	2708.65	1687197.68	14263775.68	39°16'46.502"N	80°50'04.862"W	8693.60	161.846	5.00	0.00	-5.00	
15560.00	89.430	160.250	6741.54	8788.52	-8350.50	2740.12	1687229.13	14263686.08	39°16'45.616"N	80°50'04.464"W	8788.58	161.833	0.85	-0.06	-0.85	
15654.00	89.460	161.520	6742.45	8882.49	-8439.31	2770.90	1687259.90	14263597.30	39°16'44.737"N	80°50'04.074"W	8882.56	161.823	1.35	0.03	1.35	
15748.00	89.420	163.690	6743.37	8976.48	-8529.00	2798.99	1687287.99	14263507.65	39°16'43.850"N	80°50'03.719"W	8976.54	161.832	2.31	-0.04	2.31	
15840.00	89.580	164.010	6743.83	9028.45	-8578.95	2813.46	1687302.44	14263457.72	39°16'43.357"N	80°50'03.536"W	9028.50	161.843	0.69	0.31	0.62	
15824.00	89.580	164.010	6744.00	9052.44	-8602.02	2820.00	1687309.05	14263434.66	39°16'43.128"N	80°50'03.453"W	9052.49	161.849	0.00	0.00	0.00	Projected MD at TD. 15824'

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Spellman Unit 2H AWP Proj: 15824'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Doddridge Co., WV
Field	Doddridge
Facility	Balli Pad
Slot	Slot #06
Well	Spellman Unit 2H
Wellbore	Spellman Unit 2H AWB

HOLE & CASING SECTIONS - Ref Wellbore: Spellman Unit 2H AWB Ref Wellpath: Spellman Unit 2H AWP Proj: 15824'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]
20in Conductor	32.00	72.00	40.00	32.00	72.00	0.00	0.00	0.00	-0.04
13.375in Casing Surface	32.00	393.00	361.00	32.00	392.99	0.00	0.00	0.00	-2.59
9.625in Casing Intermediate	32.00	2550.00	2518.00	32.00	2544.46	0.00	67.64	0.00	-57.87

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Spellman Unit 2H POE Rev-1	6602.00	-14.51	36.54	1684526.63	14272018.73	39°18'08.054"N	80°50'38.661"W	point
Spellman Unit 2H LP Rev-1	6624.00	-146.88	79.45	1684569.53	14271886.41	39°18'06.745"N	80°50'38.119"W	point
Spellman Unit 2H BHL Rev-1	6700.76	-8513.89	2791.83	1687280.82	14263522.76	39°16'44.000"N	80°50'03.810"W	point

WELLPATH COMPOSITION - Ref Wellbore: Spellman Unit 2H AWB Ref Wellpath: Spellman Unit 2H AWP Proj: 15824'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	5962.00	[SDI Keeper v1.04	01_SDI Std Keeper Gyro (100' - 5943)	Spellman Unit 2H AWB
5962.00	15800.00	[BHI AutoTrak Curve w/ Surcon (MagCAD, Short spacing)	02_BHI AT Curve [SS+MSA] <8-1/2'> (5962)-(6087)-(15800)	Spellman Unit 2H AWB
15800.00	15824.00	[Blind Drilling (std)	Projection to bit	Spellman Unit 2H AWB

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Doddiridge Co., WV	Well	Spellman Unit 2H
Field	Doddiridge	Wellbore	Spellman Unit 2H AWB
Facility	Balli Pad		

COMMENTS

Wellpath general comments

API: 47-017-06693-0000
 BHI Job #: 7977644
 Rig: Frontier 32
 Duration: 05.28.2016-05.30.2016
 SDI Std Keeper Gyro (1'19" - 5962')
 BHI AT Curve [SS+MSA] <8-1/2">(5962')(6087'-15800')
 Middlesex: 6469' MD
 Burkett: 6641' MD
 Tully: 6695' MD
 Marcellus: 6787' MD
 Projected MD at TD: 15824'

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