



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'
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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Kirk Hadley Pad
Slot	Slot #12
Well	Dierkes Unit 2H
Wellbore	Dierkes Unit 2H AWB

REPORT SETUP INFORMATION	
Projection System	NAD27 / UTM Zone 17 North, US feet
North Reference	Grid
Scale	0.999600
Convergence at slot	0.04° East
Software System	WellArchitect® 5.1
User	Delaset
Report Generated	9/6/2019 at 11:14:30 AM
Database/Source file	WA_MPL_EasternUS_Defn/Dierkes_Unit_2H_AWP_Proj_14624_.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	108.41	18.65	1659539.30	14330688.19	39°27'48.455"N	80°55'56.087"W
Facility Reference Pt			1659520.65	14330579.82	39°27'47.384"N	80°55'56.326"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM	
Calculation method	Minimum curvature
Horizontal Reference Pt	Slot
Vertical Reference Pt	Patterson 342 (RKB)
MD Reference Pt	Patterson 342 (RKB)
Field Vertical Reference	Mean Sea Level
	Patterson 342 (RKB) to Facility Vertical Datum
	Patterson 342 (RKB) to Mean Sea Level
	Patterson 342 (RKB) to Ground Level at Slot (Slot #12)
	Section Origin
	Section Azimuth
	25.00ft
	937.00ft
	25.00ft
	N 0.00, E 0.00 ft
	161.05°



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Area	Tyler County, WV	Well	Dierkes Unit 2H
Field	Tyler	Wellbore	Dierkes Unit 2H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (183 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	206.830	0.00	0.00	0.00	0.00	1659539.30	14330688.19	39°27'48.455"N	80°55'56.087"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	206.830	25.00	0.00	0.00	0.00	1659539.30	14330688.19	39°27'48.455"N	80°55'56.087"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.260	206.830	100.00	0.12	-0.15	-0.08	1659539.22	14330688.04	39°27'48.453"N	80°55'56.088"W	0.17	206.830	0.35	-204.23	Gyrodata MS Gyro <17-1/2">(100'-445')	
125.00	0.260	203.460	125.00	0.20	-0.25	-0.12	1659539.17	14330687.94	39°27'48.452"N	80°55'56.089"W	0.28	206.156	0.06	0.00	-13.48	
150.00	0.260	197.360	150.00	0.29	-0.36	-0.16	1659539.13	14330687.83	39°27'48.451"N	80°55'56.089"W	0.40	204.517	0.11	0.00	-24.40	
175.00	0.300	222.430	175.00	0.36	-0.46	-0.23	1659539.07	14330687.73	39°27'48.450"N	80°55'56.090"W	0.52	205.970	0.51	0.16	100.28	
200.00	0.300	197.610	200.00	0.45	-0.57	-0.29	1659539.01	14330687.62	39°27'48.449"N	80°55'56.091"W	0.64	206.775	0.52	0.00	-99.28	
225.00	0.280	223.820	225.00	0.53	-0.68	-0.35	1659538.94	14330687.51	39°27'48.448"N	80°55'56.091"W	0.77	207.335	0.53	-0.08	104.84	
250.00	0.250	224.430	250.00	0.58	-0.76	-0.43	1659538.86	14330687.43	39°27'48.447"N	80°55'56.093"W	0.88	209.515	0.12	-0.12	2.44	
275.00	0.220	201.250	275.00	0.64	-0.85	-0.49	1659538.81	14330687.34	39°27'48.447"N	80°55'56.093"W	0.98	209.933	0.40	-0.12	-92.72	
300.00	0.220	218.610	300.00	0.71	-0.93	-0.54	1659538.76	14330687.26	39°27'48.446"N	80°55'56.094"W	1.07	209.933	0.27	0.00	69.44	
325.00	0.230	203.560	325.00	0.77	-1.01	-0.59	1659538.71	14330687.18	39°27'48.445"N	80°55'56.094"W	1.17	210.015	0.24	0.04	-60.20	
350.00	0.050	236.280	350.00	0.81	-1.08	-0.61	1659538.68	14330687.13	39°27'48.444"N	80°55'56.095"W	1.23	209.977	0.76	-0.72	130.88	
375.00	0.050	191.980	375.00	0.82	-1.08	-0.63	1659538.67	14330687.11	39°27'48.444"N	80°55'56.095"W	1.25	210.044	0.15	0.00	-177.20	
400.00	0.090	138.870	400.00	0.85	-1.11	-0.61	1659538.68	14330687.08	39°27'48.444"N	80°55'56.095"W	1.27	209.050	0.29	0.16	-212.44	
425.00	0.160	151.050	425.00	0.90	-1.15	-0.59	1659538.71	14330687.04	39°27'48.444"N	80°55'56.094"W	1.29	206.918	0.30	0.28	48.72	
445.00	0.340	122.620	445.00	0.97	-1.21	-0.52	1659538.77	14330686.98	39°27'48.443"N	80°55'56.094"W	1.32	203.340	1.07	0.90	-142.15	
535.00	1.130	87.620	534.99	1.44	-1.32	0.59	1659539.89	14330686.88	39°27'48.442"N	80°55'56.079"W	1.44	155.847	0.97	0.88	-38.89	
625.00	4.000	68.880	624.89	1.57	-0.15	4.41	1659543.70	14330688.04	39°27'48.454"N	80°55'56.031"W	4.41	91.919	3.28	3.19	-20.82	
714.00	6.800	62.800	713.49	0.70	3.38	11.99	1659551.28	14330691.57	39°27'48.488"N	80°55'55.934"W	12.46	74.256	3.21	3.15	-6.83	
800.00	8.600	61.770	798.71	-1.07	8.75	22.18	1659561.47	14330696.94	39°27'48.541"N	80°55'55.804"W	23.85	68.476	2.10	2.03	-1.20	
926.00	9.890	57.920	923.07	-5.05	18.95	39.65	1659578.93	14330707.14	39°27'48.642"N	80°55'55.581"W	43.95	64.454	1.13	1.02	-3.06	
1021.00	10.000	57.450	1016.64	-8.84	27.72	53.52	1659592.79	14330715.90	39°27'48.729"N	80°55'55.504"W	60.27	62.615	0.14	0.12	-0.49	
1115.00	10.750	57.190	1109.11	-12.86	36.87	67.77	1659607.04	14330725.04	39°27'48.819"N	80°55'55.223"W	77.14	61.454	0.80	0.80	-0.28	
1210.00	12.960	58.080	1202.07	-17.37	47.30	84.26	1659623.52	14330735.47	39°27'48.922"N	80°55'55.012"W	96.63	60.691	2.33	2.33	0.94	
1305.00	16.020	59.030	1294.04	-22.50	59.68	104.54	1659643.80	14330747.85	39°27'49.044"N	80°55'54.753"W	120.38	60.279	3.23	3.22	1.00	
1400.00	19.820	58.430	1384.42	-28.75	74.86	129.51	1659668.76	14330763.02	39°27'49.194"N	80°55'54.435"W	149.60	59.971	4.00	4.00	-0.63	
1494.00	23.080	54.580	1471.90	-37.46	93.89	158.12	1659697.35	14330782.04	39°27'49.382"N	80°55'54.070"W	183.89	59.298	3.78	3.47	-4.10	
1589.00	21.520	54.450	1559.79	-47.71	114.82	187.47	1659726.69	14330802.96	39°27'49.568"N	80°55'53.696"W	219.83	58.515	1.64	-1.64	-0.14	
1683.00	21.170	56.240	1647.35	-56.40	133.77	215.93	1659755.14	14330821.91	39°27'49.776"N	80°55'53.333"W	254.01	58.221	1.51	-0.37	4.03	



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Area	Tyler County, WV	Well	Dierkes Unit 2H
Field	Tyler	Wellbore	Dierkes Unit 2H AWB
Facility	Kirk Hadley Pad		

WELLPATH DATA (183 stations)																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US IT)	Grid North (US IT)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
1778.00	21.880	64.010	1735.73	-62.38	150.56	246.43	1659785.63	14330838.69	39°27'49.941"N	80°55'52.944"W	288.79	58.576	2.35	0.75	6.07	
1873.00	25.940	67.490	1822.56	-65.84	166.28	281.55	1659820.74	14330854.41	39°27'50.096"N	80°55'52.496"W	326.99	59.434	4.52	4.27	3.66	
1967.00	29.630	66.930	1905.71	-68.78	183.26	321.94	1659861.11	14330871.38	39°27'50.264"N	80°55'51.980"W	370.45	60.349	3.94	3.93	-0.60	
2062.00	28.620	66.090	1988.70	-72.44	201.69	364.35	1659903.50	14330889.80	39°27'50.446"N	80°55'51.440"W	416.44	61.033	1.15	-1.06	-0.88	
2156.00	21.490	61.290	2073.81	-77.31	219.11	400.08	1659939.21	14330907.21	39°27'50.618"N	80°55'50.984"W	456.15	61.292	7.88	-7.59	-6.11	
2251.00	20.630	56.730	2162.47	-84.40	236.65	429.33	1659968.46	14330924.75	39°27'50.791"N	80°55'50.611"W	490.24	61.136	1.95	-0.91	-4.80	
2346.00	21.790	62.520	2250.73	-91.27	254.33	459.66	1659998.77	14330942.41	39°27'50.965"N	80°55'50.224"W	525.33	61.045	3.20	2.27	6.09	
2440.00	22.430	62.220	2337.82	-96.61	270.73	491.00	1660030.10	14330958.81	39°27'51.127"N	80°55'49.824"W	560.70	61.128	1.45	-1.45	-0.32	
2535.00	21.120	60.350	2426.35	-102.45	287.29	521.23	1660060.32	14330975.36	39°27'51.290"N	80°55'49.438"W	595.16	61.138	0.79	-0.33	-1.97	
2629.00	21.340	62.260	2513.97	-108.21	303.63	551.09	1660090.16	14330991.69	39°27'51.452"N	80°55'49.058"W	629.20	61.147	0.77	0.23	2.03	
2758.00	20.290	59.220	2634.55	-116.38	326.00	591.08	1660130.14	14331014.06	39°27'51.673"N	80°55'48.547"W	675.02	61.122	1.17	-0.81	-2.36	WFT EM <-8-3/4">{2629}{2758-6071}
2853.00	21.410	62.410	2723.33	-122.36	342.46	620.60	1660159.65	14331030.51	39°27'51.835"N	80°55'48.171"W	708.82	61.109	1.68	1.18	3.36	
2948.00	23.290	62.110	2811.19	-127.89	359.28	652.57	1660191.61	14331047.32	39°27'52.001"N	80°55'47.763"W	744.94	61.165	1.98	1.98	-0.32	
3043.00	22.910	60.970	2898.57	-134.04	377.03	685.34	1660224.36	14331065.07	39°27'52.176"N	80°55'47.345"W	782.21	61.183	0.62	-0.40	-1.20	
3137.00	22.240	60.060	2985.37	-140.63	394.79	716.75	1660255.76	14331082.82	39°27'52.351"N	80°55'46.944"W	818.29	61.154	0.80	-0.71	-0.97	
3232.00	23.110	58.590	3073.03	-148.08	413.48	748.24	1660287.24	14331101.51	39°27'52.536"N	80°55'46.543"W	854.89	61.075	1.09	0.92	-1.55	
3326.00	22.380	57.600	3159.72	-156.23	432.68	779.10	1660318.08	14331120.70	39°27'52.725"N	80°55'46.149"W	891.18	60.954	0.88	-0.78	-1.05	
3421.00	22.220	60.040	3247.61	-163.86	451.35	809.93	1660348.90	14331139.36	39°27'52.910"N	80°55'45.756"W	927.20	60.871	0.99	-0.17	2.57	
3516.00	22.880	59.150	3335.35	-171.10	469.79	841.35	1660380.31	14331157.79	39°27'53.092"N	80°55'45.355"W	963.62	60.822	0.78	0.63	-0.94	
3610.00	21.660	57.910	3422.34	-178.82	488.37	871.74	1660410.68	14331176.37	39°27'53.275"N	80°55'44.967"W	999.22	60.741	1.39	-1.30	-1.32	
3705.00	22.200	60.280	3510.47	-186.16	506.59	902.18	1660441.11	14331194.57	39°27'53.455"N	80°55'44.579"W	1034.68	60.685	1.09	0.57	2.49	
3802.00	22.670	57.140	3600.13	-194.07	525.82	933.80	1660472.72	14331213.80	39°27'53.645"N	80°55'44.176"W	1071.66	60.616	1.33	0.48	-3.24	
3897.00	21.910	54.100	3688.03	-203.64	546.14	963.53	1660502.44	14331234.11	39°27'53.845"N	80°55'43.796"W	1107.55	60.455	1.45	-0.80	-3.20	
3991.00	21.180	55.670	3775.46	-213.26	566.00	991.76	1660530.66	14331253.97	39°27'54.041"N	80°55'43.436"W	1141.91	60.286	0.99	-0.78	1.67	
4085.00	19.970	56.990	3863.47	-221.66	584.33	1019.25	1660558.13	14331272.28	39°27'54.222"N	80°55'43.086"W	1174.86	60.175	1.38	-1.28	1.40	
4179.00	19.970	59.490	3951.81	-228.78	601.22	1046.54	1660585.41	14331289.17	39°27'54.389"N	80°55'42.737"W	1206.94	60.123	0.91	0.00	2.66	
4274.00	22.070	63.440	4040.49	-234.40	617.44	1076.48	1660615.35	14331305.38	39°27'54.549"N	80°55'42.356"W	1240.99	60.163	2.67	2.21	4.16	
4368.00	23.870	65.310	4127.04	-238.64	633.28	1109.56	1660648.41	14331321.22	39°27'54.706"N	80°55'41.934"W	1277.57	60.284	2.07	1.91	1.99	
4462.00	22.750	60.770	4213.37	-243.78	650.10	1142.71	1660681.55	14331338.03	39°27'54.872"N	80°55'41.511"W	1314.69	60.364	2.25	-1.19	-4.83	
4557.00	22.280	58.180	4301.13	-251.07	668.57	1174.04	1660712.87	14331356.49	39°27'55.054"N	80°55'41.111"W	1351.06	60.340	1.16	-0.49	-2.73	



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4652.00	22.960	56.720	4388.82	-259.67	688.23	1204.83	1660743.65	14331376.15	39°27'55.248"N	80°55'40.718"W	1387.55	60.264	0.93	0.72	-1.54	
4746.00	25.310	61.750	4474.61	-267.46	707.81	1237.87	1660776.67	14331395.71	39°27'55.441"N	80°55'40.297"W	1425.94	60.239	3.32	2.50	5.35	
4841.00	26.630	64.820	4560.02	-273.05	726.48	1275.03	1660813.81	14331414.38	39°27'55.625"N	80°55'39.823"W	1467.47	60.327	1.98	1.39	3.23	
4936.00	25.900	62.460	4645.21	-278.46	745.13	1312.70	1660851.46	14331433.02	39°27'55.809"N	80°55'39.342"W	1509.43	60.419	1.34	-0.77	-2.48	
5030.00	23.660	63.200	4730.55	-284.30	763.13	1347.74	1660886.49	14331451.02	39°27'55.987"N	80°55'38.895"W	1548.80	60.480	2.41	-2.38	-0.79	
5125.00	22.270	57.210	4818.03	-291.01	781.48	1379.89	1660918.63	14331469.36	39°27'56.168"N	80°55'38.485"W	1685.82	60.476	2.86	-1.46	-6.31	
5219.00	21.230	59.150	4905.34	-298.78	799.85	1409.48	1660948.21	14331487.72	39°27'56.349"N	80°55'38.108"W	1620.62	60.426	1.34	-1.11	2.06	
5313.00	20.350	63.110	4993.22	-304.55	815.97	1438.67	1660977.39	14331503.84	39°27'56.509"N	80°55'37.735"W	1663.96	60.439	1.76	-0.94	4.21	
5409.00	20.690	62.410	5083.13	-309.40	831.38	1468.59	1661007.29	14331519.23	39°27'56.661"N	80°55'37.354"W	1687.58	60.486	0.44	0.35	-0.73	
5503.00	19.950	63.190	5171.28	-314.09	846.30	1497.62	1661036.31	14331534.15	39°27'56.808"N	80°55'36.984"W	1720.20	60.529	0.84	-0.79	0.83	
5598.00	19.940	62.890	5260.58	-318.61	860.99	1526.50	1661065.18	14331548.84	39°27'56.953"N	80°55'36.615"W	1752.57	60.576	0.11	-0.01	-0.32	
5693.00	20.540	63.330	5349.72	-323.15	875.86	1555.81	1661094.49	14331563.69	39°27'57.099"N	80°55'36.241"W	1785.41	60.622	0.65	0.63	0.46	
5787.00	20.260	56.900	5437.83	-329.34	892.15	1584.19	1661122.85	14331579.98	39°27'57.260"N	80°55'35.879"W	1818.12	60.614	2.40	-0.30	-6.84	
5832.00	19.730	64.060	5480.13	-332.17	899.73	1597.55	1661136.20	14331587.56	39°27'57.335"N	80°55'35.709"W	1833.48	60.612	5.56	-1.18	15.91	
5882.00	19.540	77.110	5527.24	-332.31	905.29	1613.30	1661151.94	14331593.11	39°27'57.390"N	80°55'35.508"W	1849.94	60.701	8.76	-0.38	26.10	
5927.00	20.660	86.770	5569.51	-329.37	907.41	1628.56	1661167.20	14331595.24	39°27'57.411"N	80°55'35.313"W	1864.30	60.874	7.78	2.49	21.47	
5977.00	22.760	95.020	5615.97	-323.05	907.06	1647.01	1661185.84	14331594.89	39°27'57.407"N	80°55'35.078"W	1880.27	61.157	7.40	4.20	16.50	
6022.00	24.430	104.050	5657.22	-314.44	904.04	1664.72	1661203.34	14331591.87	39°27'57.377"N	80°55'34.852"W	1894.35	61.495	8.84	3.71	20.07	
6071.00	28.590	110.200	5701.07	-301.51	897.53	1685.56	1661224.18	14331585.36	39°27'57.313"N	80°55'34.587"W	1909.63	61.966	10.16	8.49	12.55	
6130.00	32.700	117.040	5751.84	-281.12	885.40	1713.02	1661251.83	14331573.24	39°27'57.192"N	80°55'34.237"W	1928.31	62.667	9.13	6.97	11.59	BH AT Curve <8-1/2"> (6071)(6130)(14599)
6176.00	33.170	121.390	5790.45	-262.49	873.19	1734.84	1661273.44	14331561.04	39°27'57.072"N	80°55'33.959"W	1942.20	63.283	5.24	1.02	9.46	
6223.00	33.120	131.660	5829.83	-241.39	857.95	1755.42	1661294.01	14331545.80	39°27'56.921"N	80°55'33.696"W	1953.86	63.953	11.94	-0.11	21.85	
6271.00	34.310	140.700	5869.78	-217.26	838.75	1773.80	1661312.38	14331526.61	39°27'56.731"N	80°55'33.462"W	1962.11	64.693	10.73	2.48	18.83	
6318.00	36.760	148.440	5908.04	-191.22	816.77	1789.97	1661328.55	14331504.64	39°27'56.514"N	80°55'33.256"W	1967.52	65.473	8.80	5.21	12.21	
6366.00	39.960	148.620	5945.67	-162.26	791.64	1805.94	1661344.51	14331479.51	39°27'56.265"N	80°55'33.053"W	1971.83	66.330	7.24	6.67	4.54	
6412.00	42.980	148.460	5980.14	-132.53	765.66	1821.84	1661360.41	14331453.54	39°27'56.006"N	80°55'32.850"W	1976.19	67.205	6.57	6.57	-0.35	
6460.00	45.070	148.380	6014.65	-99.98	737.24	1839.31	1661377.87	14331425.13	39°27'55.727"N	80°55'32.628"W	1981.56	68.158	4.36	4.36	-0.17	
6507.00	48.510	150.520	6046.83	-66.43	707.74	1856.70	1661395.25	14331395.64	39°27'55.435"N	80°55'32.406"W	1987.02	69.134	8.04	7.32	4.55	
6525.00†	50.150	152.030	6058.66	-52.97	695.76	1863.26	1661401.81	14331383.68	39°27'55.317"N	80°55'32.323"W	1988.93	69.524	11.15	9.13	8.44	Middlesex: 6525' MD
6554.00	52.840	154.340	6076.61	-30.50	675.51	1873.49	1661412.03	14331363.43	39°27'55.117"N	80°55'32.193"W	1991.55	70.173	11.15	9.26	7.93	



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'

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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #12
Operator	ANTERO RESOURCES CORPORATION	Well	Dierkes Unit 2H
Area	Tyler County, WV	Wellbore	Dierkes Unit 2H AWB
Field	Tyler		
Facility	Kirk Hadley Pad		

WELLPATH DATA (183 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
6649.00	61.950	158.900	6127.77	49.19	602.10	1905.05	1661443.58	14331290.04	39°27'54.391"N	80°55'31.791"W	1997.93	72.461	10.40	9.59	4.80	
6689.00	66.334	159.868	6145.21	85.16	568.41	1917.71	1661456.24	14331256.37	39°27'54.058"N	80°55'31.630"W	2000.18	73.490	11.17	10.96	2.42	Burkett: 6689' MD
6744.00	72.370	161.100	6164.59	136.60	519.92	1934.89	1661473.41	14331207.90	39°27'53.579"N	80°55'31.412"W	2003.52	74.959	11.17	10.98	2.24	
6790.00	72.888	161.192	6166.39	142.32	514.50	1936.74	1661475.26	14331202.49	39°27'53.525"N	80°55'31.388"W	2003.91	75.123	8.76	8.64	1.54	July: 6750' MD
6791.00	76.430	161.810	6177.23	181.86	477.01	1949.28	1661487.79	14331165.01	39°27'53.154"N	80°55'31.228"W	2006.80	76.249	8.76	8.64	1.51	
6828.00	77.694	161.216	6185.52	217.91	442.81	1960.72	1661499.22	14331130.83	39°27'52.816"N	80°55'31.083"W	2010.10	77.274	3.76	3.42	-1.61	Marcellus POE: 6828' MD
6839.00	78.070	161.040	6187.82	228.67	432.64	1964.19	1661502.70	14331076.65	39°27'52.716"N	80°55'30.851"W	2011.28	77.578	3.76	3.42	-1.60	
6886.00	81.260	161.790	6196.26	274.90	388.82	1978.93	1661517.43	14331076.65	39°27'52.282"N	80°55'30.851"W	2016.76	78.884	6.97	6.79	1.60	
6935.00	82.160	161.910	6203.32	323.38	342.74	1994.03	1661532.53	14331030.79	39°27'51.827"N	80°55'30.659"W	2023.27	80.247	1.85	1.84	0.24	
6982.00	83.220	161.230	6209.30	370.00	298.51	2008.77	1661547.26	14330986.59	39°27'51.390"N	80°55'30.472"W	2030.83	81.547	2.67	2.26	-1.45	
7030.00	83.900	160.380	6214.68	417.69	253.47	2024.45	1661562.93	14330941.56	39°27'50.944"N	80°55'30.272"W	2040.26	82.863	2.26	1.42	-1.77	
7077.00	86.270	160.330	6218.71	464.51	209.37	2040.19	1661578.67	14330897.48	39°27'50.508"N	80°55'30.072"W	2050.91	84.141	5.04	5.04	-0.11	
7125.00	89.480	160.760	6220.49	512.47	164.15	2056.17	1661594.64	14330852.27	39°27'50.061"N	80°55'29.869"W	2062.71	85.436	6.75	6.69	0.90	
7220.00	89.660	157.160	6221.20	607.39	75.50	2090.27	1661628.72	14330763.66	39°27'49.185"N	80°55'29.435"W	2091.63	87.931	3.79	0.19	-3.79	
7314.00	89.110	156.760	6222.21	701.14	-10.99	2127.06	1661665.50	14330677.20	39°27'48.330"N	80°55'28.967"W	2127.09	90.296	0.73	-0.59	-0.44	
7410.00	89.540	161.710	6223.34	797.06	-100.72	2161.09	1661699.52	14330568.51	39°27'47.443"N	80°55'28.534"W	2163.44	92.668	5.19	0.45	5.17	
7506.00	89.480	158.930	6224.17	893.04	-191.10	2193.42	1661731.83	14330497.17	39°27'46.549"N	80°55'28.123"W	2201.73	94.979	2.90	-0.06	-2.90	
7601.00	89.630	161.710	6224.90	988.02	-280.54	2225.41	1661763.81	14330407.76	39°27'46.665"N	80°55'27.716"W	2243.02	97.185	2.93	0.16	2.93	
7696.00	90.000	159.170	6225.21	1083.01	-370.05	2257.21	1661795.60	14330318.29	39°27'44.780"N	80°55'27.311"W	2287.94	99.310	2.70	0.39	-2.67	
7791.00	88.980	159.330	6226.06	1177.95	-458.88	2290.86	1661829.24	14330229.49	39°27'43.902"N	80°55'26.883"W	2336.37	101.327	1.09	-1.07	0.17	
7885.00	89.290	161.280	6227.48	1271.93	-547.37	2322.54	1661860.90	14330141.04	39°27'43.027"N	80°55'26.480"W	2386.17	103.261	2.10	0.33	2.07	
7980.00	89.230	159.920	6228.70	1366.92	-636.97	2354.09	1661892.44	14330051.48	39°27'42.141"N	80°55'26.079"W	2438.74	106.140	1.43	-0.06	-1.43	
8075.00	88.710	161.750	6230.41	1461.90	-726.68	2385.27	1661923.61	14329961.80	39°27'41.254"N	80°55'25.682"W	2493.51	106.944	2.00	-0.55	1.93	
8169.00	89.420	160.360	6231.94	1555.88	-815.57	2415.78	1661954.11	14329872.94	39°27'40.375"N	80°55'25.294"W	2549.74	108.655	1.66	0.76	-1.48	
8265.00	89.450	159.930	6232.89	1651.86	-905.86	2448.39	1661986.70	14329782.69	39°27'39.483"N	80°55'24.880"W	2610.59	110.304	0.45	0.03	-0.45	
8360.00	90.430	160.480	6232.99	1746.85	-995.25	2480.56	1662018.86	14329693.34	39°27'38.599"N	80°55'24.470"W	2672.77	111.862	1.18	1.03	0.58	
8455.00	88.830	158.970	6233.60	1841.82	-1084.35	2513.48	1662051.76	14329604.27	39°27'37.718"N	80°55'24.052"W	2737.41	113.336	2.32	-1.68	-1.59	
8549.00	89.480	161.360	6234.99	1935.79	-1172.76	2545.37	1662083.64	14329515.90	39°27'36.844"N	80°55'23.646"W	2802.54	114.738	2.63	0.69	2.54	
8643.00	89.450	160.130	6235.87	2029.78	-1261.50	2576.36	1662114.62	14329427.20	39°27'35.967"N	80°55'23.252"W	2868.63	116.088	1.31	-0.03	-1.31	
8738.00	89.350	162.140	6236.86	2124.77	-1351.39	2607.08	1662145.33	14329337.35	39°27'35.078"N	80°55'22.861"W	2936.51	117.400	2.12	-0.11	2.12	



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #12
Area	Tyler County, WV	Well	Dierkes Unit 2H
Field	Tyler	Wellbore	Dierkes Unit 2H AWP
Facility	Kirk Hadley Pad		

WELLPATH DATA (183 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
8833.00	89.540	159.860	6237.78	2219.76	-1441.20	2638.00	1662176.24	14329247.57	39°27'34.190"N	80°55'22.468"W	3006.01	118.649	2.41	0.20	-2.40	
8929.00	89.170	157.650	6238.86	2315.67	-1530.66	2672.78	1662211.01	14329158.14	39°27'33.308"N	80°55'22.026"W	3080.05	119.799	2.33	-0.39	-2.30	
9024.00	88.740	160.890	6240.60	2410.60	-1619.49	2706.40	1662244.61	14329069.35	39°27'32.427"N	80°55'21.598"W	3153.94	120.896	3.44	-0.45	3.41	
9118.00	89.080	159.790	6242.39	2504.57	-1707.99	2738.02	1662276.22	14328980.89	39°27'31.552"N	80°55'21.196"W	3227.07	121.956	1.22	0.36	-1.17	
9212.00	89.230	160.870	6243.77	2598.55	-1796.49	2769.66	1662307.84	14328892.42	39°27'30.677"N	80°55'20.793"W	3301.27	122.969	1.16	0.16	1.15	
9308.00	88.830	160.230	6245.40	2694.54	-1887.00	2801.62	1662339.79	14328801.95	39°27'29.783"N	80°55'20.387"W	3377.84	123.962	0.79	-0.42	-0.67	
9404.00	86.840	159.810	6249.19	2790.44	-1977.15	2834.39	1662372.55	14328711.84	39°27'28.891"N	80°55'19.970"W	3455.85	124.898	2.32	-2.28	-0.44	
9499.00	87.970	164.580	6253.66	2885.29	-2067.47	2863.40	1662402.54	14328621.55	39°27'27.998"N	80°55'19.601"W	3531.78	125.831	5.21	1.40	5.02	
9593.00	88.710	157.280	6256.39	2979.18	-2156.21	2894.08	1662432.21	14328532.85	39°27'27.121"N	80°55'19.211"W	3609.01	126.688	7.80	0.70	-7.77	
9687.00	90.250	158.350	6257.24	3073.02	-2243.25	2929.67	1662467.69	14328445.85	39°27'26.261"N	80°55'18.760"W	3689.79	127.442	1.99	1.64	1.14	
9782.00	89.720	155.560	6257.26	3167.77	-2330.66	2966.75	1662504.86	14328358.47	39°27'25.396"N	80°55'18.286"W	3772.74	128.153	2.99	-0.56	-2.94	
9877.00	88.830	152.370	6258.47	3262.03	-2416.00	3008.44	1662546.53	14328273.16	39°27'24.553"N	80°55'17.756"W	3858.47	128.767	3.49	-0.94	-3.36	
9970.00	89.320	158.790	6259.97	3354.54	-2500.62	3046.86	1662584.94	14328188.57	39°27'23.716"N	80°55'17.267"W	3941.63	129.376	6.92	0.53	6.90	
10066.00	89.720	165.840	6260.78	3450.45	-2592.02	3076.01	1662614.07	14328097.21	39°27'22.812"N	80°55'16.897"W	4022.49	130.119	7.36	0.42	7.34	
10161.00	88.120	161.760	6262.57	3545.30	-2683.21	3102.50	1662640.55	14328006.06	39°27'21.911"N	80°55'16.560"W	4101.85	130.855	4.61	-1.68	-4.29	
10257.00	90.180	166.670	6263.99	3641.11	-2775.55	3128.60	1662666.64	14327913.76	39°27'20.998"N	80°55'16.228"W	4182.32	131.578	5.55	2.15	5.11	
10352.00	90.860	165.290	6263.13	3735.75	-2867.71	3151.61	1662689.64	14327821.63	39°27'20.087"N	80°55'15.936"W	4261.04	132.300	1.62	0.72	-1.45	
10447.00	93.020	161.360	6259.91	3830.60	-2958.64	3178.85	1662730.74	14327730.74	39°27'19.188"N	80°55'15.590"W	4342.65	132.945	4.72	2.27	-4.14	
10541.00	93.790	155.980	6254.33	3924.32	-3046.02	3212.97	1662750.97	14327643.40	39°27'18.324"N	80°55'15.156"W	4427.34	133.472	5.77	0.82	-5.72	
10637.00	90.650	151.800	6250.61	4019.46	-3132.12	3255.17	1662793.16	14327557.32	39°27'17.473"N	80°55'14.618"W	4517.34	133.896	5.44	-3.27	-4.35	
10731.00	89.380	156.670	6250.58	4112.77	-3216.75	3296.02	1662833.99	14327472.73	39°27'16.636"N	80°55'14.099"W	4605.57	134.303	5.35	-1.35	5.18	
10826.00	88.620	161.240	6252.24	4207.67	-3305.38	3330.12	1662868.08	14327384.14	39°27'15.760"N	80°55'13.665"W	4692.04	134.786	4.88	-0.80	4.81	
10921.00	86.890	161.100	6255.96	4302.59	-3395.22	3360.76	1662898.70	14327294.33	39°27'14.871"N	80°55'13.275"W	4777.26	135.292	1.83	-1.82	-0.15	
11017.00	87.200	165.400	6260.91	4398.37	-3487.00	3388.38	1662926.31	14327202.59	39°27'13.964"N	80°55'12.924"W	4862.13	135.822	4.48	0.32	4.48	
11112.00	89.480	164.680	6263.66	4493.09	-3578.74	3412.89	1662950.82	14327110.89	39°27'13.057"N	80°55'12.613"W	4945.22	136.359	2.52	2.40	-0.76	
11206.00	89.020	163.830	6264.89	4586.94	-3669.20	3438.40	1662976.31	14327020.46	39°27'12.163"N	80°55'12.289"W	5028.48	136.860	1.03	0.49	-0.90	
11301.00	88.680	165.190	6266.80	4681.74	-3760.73	3463.76	1663001.67	14326928.97	39°27'11.268"N	80°55'11.966"W	5112.80	137.354	1.48	-0.36	1.43	
11396.00	89.230	164.900	6268.53	4776.49	-3852.50	3488.27	1663026.17	14326837.24	39°27'10.351"N	80°55'11.655"W	5197.10	137.840	0.65	0.58	-0.31	
11492.00	90.150	161.090	6269.05	4872.42	-3944.28	3516.34	1663054.23	14326745.49	39°27'09.443"N	80°55'11.298"W	5284.13	138.283	4.08	0.96	-3.97	
11587.00	88.550	156.960	6270.13	4967.33	-4032.96	3550.34	1663088.21	14326656.85	39°27'08.567"N	80°55'10.866"W	5373.05	138.642	4.66	-1.68	-4.35	



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Kirk Hadley Pad
Slot	Slot #12
Well	Dierkes Unit 2H
Wellbore	Dierkes Unit 2H AWB

WELLPATH DATA (183 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
11682.00	87.040	159.690	6273.79	5062.14	-4121.17	3585.40	1663123.25	14325668.68	39°27'07.695"N	80°55'10.420"W	5462.52	138.977	3.28	-1.59	2.87	
11779.00	85.630	164.710	6279.99	5158.99	-4213.30	3614.98	1663152.83	14326476.58	39°27'06.784"N	80°55'10.044"W	5551.58	139.371	5.37	-1.45	5.18	
11874.00	91.170	166.590	6282.64	5253.50	-4305.26	3638.51	1663176.34	14326384.66	39°27'05.875"N	80°55'09.745"W	5636.84	139.798	6.16	5.83	1.98	
11989.00	90.490	160.940	6281.27	5348.35	-4396.43	3665.05	1663202.88	14326293.57	39°27'04.973"N	80°55'09.408"W	5723.74	140.184	5.99	-0.72	-5.95	
12064.00	89.200	160.600	6281.52	5443.35	-4486.12	3696.34	1663234.15	14326203.87	39°27'04.087"N	80°55'09.010"W	5812.76	140.513	1.40	-1.36	-0.36	
12158.00	89.450	167.980	6282.63	5537.12	-4576.54	3721.79	1663259.59	14326113.49	39°27'03.193"N	80°55'08.686"W	5898.85	140.881	7.83	0.27	7.83	
12252.00	89.600	170.670	6283.41	5630.14	-4668.90	3739.22	1663277.01	14326021.17	39°27'02.280"N	80°55'08.465"W	5981.67	141.310	2.89	0.16	2.88	
12347.00	89.200	174.060	6284.41	5723.27	-4763.03	3751.83	1663289.62	14325927.07	39°27'01.349"N	80°55'08.305"W	6063.23	141.773	3.59	-0.42	3.57	
12442.00	89.260	177.860	6285.68	5815.05	-4857.77	3758.53	1663296.31	14325832.37	39°27'00.413"N	80°55'08.221"W	6142.03	142.270	4.00	0.06	4.00	
12536.00	91.720	171.420	6284.88	5906.36	-4951.30	3767.30	1663305.08	14325738.88	39°26'59.488"N	80°55'08.110"W	6221.57	142.734	7.33	2.62	-6.85	
12631.00	92.620	162.270	6281.27	6000.70	-5043.64	3788.88	1663326.65	14325646.57	39°26'58.576"N	80°55'07.836"W	6308.25	143.085	9.67	0.95	-9.63	
12726.00	89.480	160.870	6279.53	6095.67	-5133.74	3818.90	1663356.67	14325556.51	39°26'57.685"N	80°55'07.455"W	6396.39	143.355	3.62	-3.31	-1.47	
12820.00	89.480	159.620	6280.39	6189.65	-5222.20	3850.67	1663388.42	14325468.08	39°26'56.810"N	80°55'07.051"W	6488.38	143.596	1.33	0.00	-1.33	
12916.00	89.420	158.380	6281.31	6285.59	-5311.82	3885.08	1663422.81	14325378.50	39°26'55.924"N	80°55'06.613"W	6580.98	143.818	1.29	-0.06	-1.29	
13011.00	89.570	156.840	6282.15	6380.41	-5399.65	3921.26	1663458.98	14325290.70	39°26'55.056"N	80°55'06.153"W	6673.27	144.013	1.63	0.16	-1.62	
13106.00	89.660	156.080	6282.78	6475.10	-5486.75	3959.20	1663496.91	14325203.65	39°26'54.195"N	80°55'05.670"W	6766.07	144.186	0.81	0.03	-0.80	
13201.00	89.570	158.330	6283.42	6569.88	-5574.32	3996.00	1663533.70	14325116.11	39°26'53.329"N	80°55'05.202"W	6858.65	144.365	2.37	-0.09	2.37	
13295.00	89.380	159.670	6284.28	6663.81	-5662.07	4029.69	1663567.37	14325028.39	39°26'52.461"N	80°55'04.774"W	6949.63	144.561	1.44	-0.20	1.43	
13391.00	89.510	158.370	6285.16	6759.75	-5751.70	4064.06	1663601.72	14324938.80	39°26'51.575"N	80°55'04.337"W	7042.63	144.756	1.37	0.20	-1.35	
13485.00	89.510	158.330	6285.92	6853.64	-5839.07	4098.74	1663636.39	14324851.47	39°26'50.711"N	80°55'03.896"W	7134.03	144.933	0.08	-0.06	-0.04	
13580.00	89.540	159.380	6286.71	6948.56	-5927.67	4133.00	1663670.64	14324762.91	39°26'49.835"N	80°55'03.460"W	7226.27	145.114	1.11	0.03	1.11	
13674.00	89.260	160.200	6287.69	7042.53	-6015.87	4165.48	1663703.10	14324674.73	39°26'48.963"N	80°55'03.047"W	7317.23	145.301	0.92	-0.30	0.87	
13769.00	89.170	162.180	6288.99	7137.52	-6105.79	4196.10	1663733.71	14324584.86	39°26'48.074"N	80°55'02.658"W	7408.64	145.502	2.09	-0.03	2.08	
13864.00	89.290	163.660	6290.27	7232.46	-6196.59	4224.00	1663761.60	14324494.09	39°26'47.177"N	80°55'02.303"W	7499.32	145.719	1.56	0.13	1.56	
13959.00	89.200	162.350	6291.52	7327.39	-6287.43	4251.77	1663789.35	14324403.29	39°26'46.279"N	80°55'01.950"W	7590.08	145.932	1.38	-0.09	-1.38	
14054.00	89.320	161.140	6292.75	7422.38	-6377.64	4281.52	1663819.10	14324313.12	39°26'45.387"N	80°55'01.572"W	7681.51	146.125	1.28	0.13	-1.27	
14148.00	89.140	160.620	6294.01	7516.37	-6466.44	4312.31	1663849.87	14324224.35	39°26'44.509"N	80°55'01.181"W	7772.44	146.302	0.59	-0.19	-0.55	
14244.00	89.230	160.280	6295.36	7612.35	-6556.90	4344.43	1663881.98	14324133.93	39°26'43.614"N	80°55'00.772"W	7865.56	146.473	0.37	0.09	-0.35	
14339.00	89.260	159.990	6296.63	7707.33	-6646.24	4376.71	1663914.25	14324044.62	39°26'42.731"N	80°55'00.362"W	7957.89	146.634	0.31	0.03	-0.31	
14434.00	89.290	159.230	6297.83	7802.29	-6735.28	4409.80	1663947.33	14323955.62	39°26'41.851"N	80°54'59.941"W	8050.49	146.786	0.80	0.03	-0.80	



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #12
ANTERO RESOURCES CORPORATION	Dierkes Unit 2H
Area	Well
Tyler County, WV	Dierkes Unit 2H AWB
Field	Wellbore
Tyler	
Facility	Kirk Hadley Pad

WELLPATH DATA (183 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Longitude	Latitude	Closure Dist (ft)	Closure Dir (°)	DLS (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
14530.00	89.350	157.940	6298.97	7898.20	-6824.64	4444.85	1663982.36	14323866.29	39°26'40.967"N	80°54'59.495"W	8144.47	146.924	1.35	0.06	-1.34	
14599.00	89.200	155.630	6299.84	7966.99	-6888.05	4472.05	1664009.55	14323802.91	39°26'40.340"N	80°54'59.150"W	8212.45	147.006	3.35	-0.22	-3.35	
14624.00	89.200	155.630	6300.19	7991.88	-6910.82	4482.36	1664019.86	14323780.15	39°26'40.115"N	80°54'59.018"W	8237.17	147.033	0.00	0.00	0.00	Projected MD at TD: 14624'

HOLE & CASING SECTIONS - Ref Wellbore: Dierkes Unit 2H AWB Ref Wellpath: Dierkes Unit 2H AWP Proj: 14624'

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	25.00	105.00	80.00	25.00	105.00	0.00	0.00	0.00	0.00
17.5in Open Hole	105.00	485.50	380.50	105.00	485.50	-0.17	-1.30	-0.09	-0.19
13.375in Casing Surface	25.00	478.40	453.40	25.00	478.40	0.00	-1.29	0.00	-0.26
12.25in Open Hole	485.50	2720.00	2234.50	485.50	2598.94	-1.30	319.30	-0.19	579.62
9.625in Casing Intermediate	25.00	2710.10	2685.10	25.00	2589.68	0.00	317.57	0.00	576.59
8.75in Open Hole	2720.00	6151.00	3431.00	2598.94	5769.49	319.30	880.05	579.62	1723.06
8.5in Open Hole	6151.00	14624.00	8473.00	8473.00	6300.19	880.05	-6910.82	1723.06	4482.36
5.5in Casing Production	25.00	14624.00	14599.00	25.00	6300.19	0.00	-6910.82	0.00	4482.36



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #12
Area	Tyler County, WV	Well	Dierkes Unit 2H
Field	Tyler	Wellbore	Dierkes Unit 2H AWB
Facility	Kirk Hadley Pad		

TARGETS								
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Dierkes Unit 2H - POE - Rev-1	6177.00	484.88	1954.27	1661492.78	14331172.88	39°27'53.232"N	80°55'31.165"W	point
Dierkes Unit 2H - BHL - Rev-1	6212.00	-6934.16	4501.82	1664039.31	14323756.82	39°26'39.884"N	80°54'58.771"W	point
Dierkes Unit 2H - BHL - Rev-2	6212.00	-6926.47	4499.18	1664036.67	14323764.50	39°26'39.960"N	80°54'58.804"W	point
Dierkes Unit 2H - LP - Rev-1	6212.00	278.99	2024.97	1661563.45	14330967.07	39°27'51.197"N	80°55'30.266"W	point

WELLPATH COMPOSITION - Ref Wellbore: Dierkes Unit 2H AWB Ref Wellpath: Dierkes Unit 2H AWP Proj: 14624'			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
25.00	445.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2>(100-445)
445.00	800.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodatta MS Gyro <12-1/4>(445-800)
800.00	2629.00	OWSG MWD rev2 + HRGM	03 WFT EM <12-1/4>(800-2629)
2629.00	6071.00	OWSG MWD rev2 + HRGM	04 WFT EM <8-3/4>(2629-6071)
6071.00	14599.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2>(6071-14599)
14599.00	14624.00	Blind Drilling (std)	Projection to bit



Actual Wellpath Report

Dierkes Unit 2H AWP Proj: 14624'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Slot	Slot #12	
ANTERO RESOURCES CORPORATION			
Area	Well	Dierkes Unit 2H	
Tyler County, WV	Wellbore	Dierkes Unit 2H AWB	
Field			
Tyler			
Facility			
Kirk Hadley Pad			

COMMENTS
<p>Wellpath general comments API: 47-095-02551-0000 BHI Job #: 109970386A Rig: Patterson 342 Duration: 08/30/2019-09/03/2019 Gyrodatta MS Gyro <17-1/2">(100'-445') Gyrodatta MS Gyro <12-1/4">(445')(535'-800') WFT EM <12-1/4">(800')(926'-2629') WFT EM <8-3/4">(2629')(2758'-6071') BH AT Curve <8-1/2"> (6071')(6130'-14599') Middlesex: 6525' MD Burkett: 6689' MD Tully: 6750' MD Marcellus POE: 6828' MD Projected MD at TD: 14624'</p>