



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'

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REFERENCE WELLPATH IDENTIFICATION	
Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Kirk Hadley Pad
Slot	Slot #11
Well	Dierkes Unit 1H
Wellbore	Dierkes Unit 1H 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	9/10/2019 at 3:09:20 PM
Database/Source file	WA_MPL_EasternUS_Defn/Dierkes_Unit_1H_AWP_Proj_14535_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	98.60	16.94	1659537.58	14330678.38	39°27'48.358"N	80°55'56.109"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 #11)
	Section Origin
	Section Azimuth
	25.00ft
	937.00ft
	25.00ft
	N 0.00, E 0.00 ft
	161.15°



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Area	Tyler County, WV	Wellbore	Dierkes Unit 1H AWB
Field	Tyler		
Facility	Kirk Hadley Pad		

WELLPATH DATA (184 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 (ft/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00†	0.00	45.02	0.00	0.00	0.00	0.00	1659537.58	14330678.38	39°27'48.358"N	80°55'56.109"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	45.02	25.00	0.00	0.00	0.00	1659537.58	14330678.38	39°27'48.358"N	80°55'56.109"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.39	45.02	100.00	-0.11	0.18	0.18	1659537.76	14330678.56	39°27'48.360"N	80°55'56.107"W	0.26	45.020	0.52	0.52	60.03	Gyrodata MS Gyro <17-1/2">(100'-447')
125.00	0.22	47.86	125.00	-0.17	0.27	0.28	1659537.85	14330678.65	39°27'48.361"N	80°55'56.105"W	0.39	45.371	0.68	-0.68	11.36	
150.00	0.15	58.64	150.00	-0.19	0.32	0.34	1659537.92	14330678.70	39°27'48.361"N	80°55'56.105"W	0.47	46.545	0.31	-0.28	43.12	
175.00	0.01	183.65	175.00	-0.20	0.34	0.37	1659537.95	14330678.72	39°27'48.361"N	80°55'56.104"W	0.50	47.504	0.62	-0.56	500.04	
200.00	0.14	85.90	200.00	-0.19	0.34	0.40	1659537.98	14330678.72	39°27'48.361"N	80°55'56.104"W	0.52	49.755	0.57	-0.52	-391.00	
225.00	0.06	34.82	225.00	-0.19	0.35	0.44	1659538.01	14330678.73	39°27'48.361"N	80°55'56.103"W	0.56	51.256	0.45	-0.32	-204.32	
250.00	0.06	27.91	250.00	-0.21	0.37	0.45	1659538.03	14330678.75	39°27'48.362"N	80°55'56.103"W	0.58	50.383	0.03	0.00	-27.64	
275.00	0.13	62.04	275.00	-0.22	0.40	0.48	1659538.06	14330678.78	39°27'48.362"N	80°55'56.103"W	0.62	50.450	0.35	0.28	136.52	
300.00	0.05	43.00	300.00	-0.23	0.42	0.51	1659538.09	14330678.80	39°27'48.362"N	80°55'56.102"W	0.66	50.821	0.34	-0.32	-75.96	
325.00	0.13	21.75	325.00	-0.26	0.45	0.53	1659538.11	14330678.83	39°27'48.362"N	80°55'56.102"W	0.70	49.569	0.34	0.32	-85.20	
350.00	0.08	78.58	350.00	-0.28	0.48	0.56	1659538.14	14330678.86	39°27'48.363"N	80°55'56.102"W	0.74	49.198	0.44	-0.20	227.32	
375.00	0.11	54.37	375.00	-0.28	0.50	0.60	1659538.17	14330678.88	39°27'48.363"N	80°55'56.101"W	0.78	49.989	0.20	0.12	-96.84	
400.00	0.20	91.83	400.00	-0.30	0.53	0.63	1659538.21	14330678.91	39°27'48.363"N	80°55'56.101"W	0.83	49.985	0.07	0.00	-35.56	
425.00	0.20	91.83	425.00	-0.29	0.55	0.69	1659538.27	14330678.93	39°27'48.363"N	80°55'56.100"W	0.88	51.754	0.59	0.36	185.40	
447.00	0.17	78.86	447.00	-0.27	0.55	0.76	1659538.34	14330678.93	39°27'48.363"N	80°55'56.099"W	0.94	54.164	0.23	-0.14	-58.95	
539.00	0.45	82.95	539.00	-0.18	0.62	1.26	1659538.83	14330679.00	39°27'48.364"N	80°55'56.093"W	1.40	63.654	0.31	0.30	4.45	Gyrodata MS Gyro <12-1/4">(447'-539'-625')
625.00	0.72	108.68	624.99	0.22	0.49	2.10	1659539.68	14330678.87	39°27'48.363"N	80°55'56.082"W	2.16	76.876	0.43	0.31	29.92	
740.00	1.03	115.38	739.98	1.38	-0.18	3.72	1659541.30	14330678.20	39°27'48.356"N	80°55'56.062"W	3.73	92.835	0.28	0.27	5.83	WFT EM <12-1/4">(625'-740'-2506')
831.00	1.23	120.03	830.96	2.68	-1.02	5.31	1659542.88	14330677.36	39°27'48.348"N	80°55'56.041"W	5.40	100.920	0.24	0.22	5.11	
925.00	1.61	128.22	924.93	4.55	-2.35	7.22	1659544.79	14330676.03	39°27'48.335"N	80°55'56.017"W	7.59	108.005	0.46	0.40	8.71	
1020.00	2.42	142.30	1019.89	7.16	-4.36	9.37	1659546.94	14330674.02	39°27'48.315"N	80°55'55.990"W	10.33	114.974	0.47	0.37	9.46	
1114.00	2.60	142.39	1209.73	14.48	-10.44	14.24	1659551.82	14330667.94	39°27'48.255"N	80°55'55.928"W	17.66	126.247	0.19	0.19	0.09	
1304.00	2.09	140.21	1303.65	18.10	-13.45	16.64	1659554.21	14330664.94	39°27'48.225"N	80°55'55.897"W	21.40	128.943	0.55	-0.54	-2.32	
1399.00	1.05	126.51	1398.61	20.44	-15.02	18.45	1659556.02	14330663.09	39°27'48.207"N	80°55'55.874"W	23.97	129.664	1.16	-1.09	-14.42	
1494.00	0.97	353.10	1493.60	20.37	-15.02	19.05	1659556.62	14330663.37	39°27'48.209"N	80°55'55.866"W	24.26	128.245	1.95	-0.08	-140.43	
1589.00	2.00	317.27	1588.57	18.06	-13.00	17.83	1659555.54	14330665.38	39°27'48.229"N	80°55'55.882"W	22.07	126.096	1.41	1.08	-37.72	
1684.00	3.10	300.25	1683.48	14.61	-10.49	14.49	1659552.06	14330667.89	39°27'48.254"N	80°55'55.924"W	17.88	125.905	1.39	1.16	-17.92	



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Area	Tyler County, WV		
Field	Tyler		
Facility	Kirk Hadley Pad		
	Well	Dierkes Unit 1H	
	Wellbore	Dierkes Unit 1H AWB	

WELLPATH DATA (184 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 (°/100ft)	Comments
1777.00	4.130	287.470	1776.29	10.72	-8.22	9.12	1659546.69	14330670.17	39°27'48.277"N	80°55'55.993"W	12.27	132.017	1.40	1.11	-13.74	
1873.00	4.180	275.700	1872.04	7.22	-6.83	2.34	1659539.92	14330671.55	39°27'48.290"N	80°55'56.079"W	7.22	161.087	0.89	0.05	-12.28	
1967.00	2.270	239.360	1965.90	6.18	-7.44	-2.67	1659534.91	14330670.94	39°27'48.284"N	80°55'56.143"W	7.90	199.750	2.88	-2.03	-38.63	
2062.00	2.070	158.330	2060.85	8.28	-9.99	-3.66	1659533.92	14330668.39	39°27'48.259"N	80°55'56.156"W	10.64	200.097	2.97	-0.21	-85.23	
2156.00	2.100	104.670	2154.79	10.92	-12.01	-1.36	1659536.22	14330666.38	39°27'48.239"N	80°55'56.126"W	12.08	186.477	2.00	0.03	-57.03	
2251.00	2.730	28.590	2249.73	10.35	-10.46	1.40	1659538.98	14330667.92	39°27'48.255"N	80°55'56.091"W	10.56	172.357	3.18	0.66	-80.08	
2345.00	3.110	345.520	2343.62	6.30	-6.03	1.84	1659539.42	14330672.36	39°27'48.298"N	80°55'56.066"W	6.30	163.042	2.31	0.40	-45.82	
2440.00	2.070	242.840	2438.56	3.97	-4.31	-0.33	1659537.24	14330674.07	39°27'48.315"N	80°55'56.113"W	4.33	184.430	4.31	-1.09	-108.08	
2506.00	3.470	206.970	2504.49	5.56	-6.65	-2.27	1659535.31	14330671.73	39°27'48.292"N	80°55'56.138"W	7.03	198.835	3.33	2.12	-55.88	
2664.00	3.990	204.110	2662.15	12.98	-15.97	-6.61	1659530.97	14330662.42	39°27'48.200"N	80°55'56.193"W	17.28	202.482	0.34	0.33	-1.18	WFT EM <8-3/4" (2508'-(2664'-5788'))
2759.00	2.470	301.810	2757.05	13.81	-17.91	-9.70	1659527.88	14330660.48	39°27'48.181"N	80°55'56.233"W	20.37	208.443	5.23	-1.60	102.84	
2854.00	5.630	11.800	2851.84	8.22	-12.26	-10.49	1659527.10	14330666.12	39°27'48.237"N	80°55'56.243"W	16.14	220.536	5.60	3.33	73.67	
2949.00	9.080	15.720	2946.05	-1.97	-0.48	-7.50	1659530.08	14330677.90	39°27'48.353"N	80°55'56.205"W	7.52	266.313	3.67	3.63	4.13	
3044.00	11.140	23.140	3039.57	-14.96	15.17	-1.88	1659535.71	14330693.55	39°27'48.508"N	80°55'56.133"W	15.29	352.994	2.56	2.17	7.81	
3139.00	11.960	34.910	3132.66	-27.60	31.69	7.38	1659544.95	14330710.05	39°27'48.671"N	80°55'56.015"W	32.53	13.105	2.62	0.86	12.38	
3233.00	12.640	49.760	3224.53	-37.12	46.32	20.80	1659558.38	14330724.68	39°27'48.816"N	80°55'55.843"W	50.78	24.186	3.43	0.72	15.81	
3327.00	16.910	55.490	3315.40	-44.56	60.72	39.93	1659577.49	14330739.07	39°27'48.958"N	80°55'55.599"W	72.67	33.330	4.80	4.54	6.10	
3422.00	23.140	46.140	3404.64	-56.20	81.51	64.81	1659602.36	14330759.85	39°27'49.163"N	80°55'55.282"W	104.13	38.488	7.35	6.56	-9.84	
3520.00	29.040	44.570	3492.61	-75.00	111.82	95.41	1659632.95	14330790.15	39°27'49.462"N	80°55'54.991"W	146.99	40.472	6.06	6.02	-1.60	
3614.00	31.190	47.610	3573.93	-94.93	144.49	129.40	1659666.93	14330822.81	39°27'49.785"N	80°55'54.458"W	193.96	41.848	2.80	2.28	3.23	
3709.00	30.610	54.480	3655.47	-111.70	175.13	167.27	1659704.78	14330853.44	39°27'50.088"N	80°55'53.975"W	242.18	43.684	3.76	-0.61	7.23	
3803.00	26.930	63.000	3737.89	-121.59	198.72	205.74	1659743.24	14330877.02	39°27'50.321"N	80°55'53.484"W	286.04	45.995	5.85	-3.91	9.06	
3898.00	20.660	64.030	3824.77	-126.72	215.84	240.01	1659777.50	14330894.14	39°27'50.489"N	80°55'53.047"W	322.79	48.035	6.61	-6.60	1.08	
3992.00	20.970	56.770	3912.65	-132.95	232.33	269.00	1659806.47	14330910.61	39°27'50.652"N	80°55'52.677"W	355.44	49.184	2.76	0.33	-7.72	
4086.00	23.240	60.110	3999.73	-140.68	250.79	299.15	1659836.61	14330929.07	39°27'50.834"N	80°55'52.292"W	390.37	50.026	2.76	2.41	3.55	
4180.00	22.450	57.200	4086.36	-148.56	269.75	330.32	1659867.76	14330948.02	39°27'51.022"N	80°55'51.995"W	426.47	50.763	1.47	-0.84	-3.10	
4275.00	23.670	55.270	4173.77	-158.15	290.44	361.24	1659898.67	14330968.71	39°27'51.226"N	80°55'51.500"W	463.52	51.200	1.51	1.28	-2.03	
4369.00	24.560	54.870	4259.57	-168.79	312.44	392.72	1659930.14	14330990.69	39°27'51.443"N	80°55'51.099"W	501.84	51.495	0.96	0.95	-0.43	
4464.00	24.340	55.580	4346.05	-179.58	334.86	425.02	1659962.43	14331013.11	39°27'51.664"N	80°55'50.687"W	541.09	51.766	0.39	-0.23	0.75	
4558.00	24.670	52.890	4431.58	-190.93	357.65	456.64	1659994.04	14331035.89	39°27'51.889"N	80°55'50.283"W	580.03	51.931	1.24	0.35	-2.86	



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Field	Tyler	Wellbore	Dierkes Unit 1H AWB
Facility	Kirk Hadley Pad		

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4653.00	23.250	51.920	4518.40	-203.32	381.18	487.22	1660024.60	14331059.40	39°27'52.122"N	80°55'49.893"W	618.61	51.962	1.55	-1.49	-1.02	
4748.00	22.760	51.970	4605.84	-215.53	404.06	516.45	1660033.82	14331082.28	39°27'52.348"N	80°55'49.520"W	655.74	51.961	0.52	-0.52	0.05	
4842.00	23.870	49.160	4692.17	-228.63	427.70	545.16	1660082.52	14331105.91	39°27'52.581"N	80°55'49.154"W	692.92	51.884	1.67	1.18	-2.93	
4937.00	23.680	48.750	4779.10	-243.10	452.85	574.05	1660111.40	14331131.05	39°27'52.829"N	80°55'48.795"W	731.17	51.731	0.27	-0.20	-0.43	
5031.00	24.240	49.140	4865.00	-257.52	477.92	602.84	1660140.17	14331156.11	39°27'53.077"N	80°55'48.418"W	769.30	51.593	0.62	0.60	0.41	
5126.00	24.070	52.420	4951.69	-271.05	502.50	632.94	1660170.26	14331180.68	39°27'53.320"N	80°55'48.034"W	808.16	51.554	1.42	-0.18	3.45	
5220.00	24.740	52.770	5037.29	-283.41	526.09	663.79	1660201.10	14331204.26	39°27'53.553"N	80°55'47.640"W	846.99	51.601	0.73	0.71	0.37	
5315.00	25.810	53.910	5123.19	-295.81	550.30	696.33	1660233.63	14331228.46	39°27'53.792"N	80°55'47.225"W	887.53	51.681	1.24	1.13	1.20	
5410.00	23.770	52.040	5209.44	-308.20	574.26	728.14	1660265.43	14331252.41	39°27'54.028"N	80°55'46.819"W	927.35	51.738	2.30	-2.15	-1.97	
5504.00	22.650	50.070	5295.83	-320.92	597.53	756.96	1660294.24	14331275.67	39°27'54.258"N	80°55'46.452"W	964.38	51.713	1.45	-1.19	-2.10	
5599.00	22.850	48.200	5383.44	-334.69	621.57	784.74	1660322.00	14331299.70	39°27'54.495"N	80°55'46.097"W	1001.08	51.618	0.79	0.21	-1.97	
5644.00	22.300	52.700	5424.99	-340.80	632.57	798.05	1660355.30	14331310.69	39°27'54.604"N	80°55'45.928"W	1018.34	51.598	4.03	-1.22	10.00	
5694.00	23.020	58.970	5471.14	-345.86	643.36	813.97	1660351.22	14331321.48	39°27'54.710"N	80°55'45.724"W	1037.52	51.677	5.04	1.44	12.54	
5739.00	22.850	67.470	5512.60	-348.28	651.24	829.59	1660366.83	14331329.36	39°27'54.788"N	80°55'45.525"W	1054.67	51.867	7.36	-0.38	18.83	
5788.00	23.980	76.640	5557.57	-347.94	657.19	848.07	1660385.31	14331335.31	39°27'54.847"N	80°55'45.290"W	1072.90	52.227	7.78	2.31	18.71	
5845.00	25.030	87.790	5609.47	-343.38	660.33	871.40	1660406.63	14331338.45	39°27'54.878"N	80°55'44.992"W	1093.33	52.846	8.31	1.84	19.53	BH AT Curve -8-1/2"-(5788',5845'-14510')
5893.00	25.670	94.830	5652.87	-336.31	659.85	891.87	1660429.09	14331337.97	39°27'54.873"N	80°55'44.731"W	1109.43	53.504	6.36	1.13	14.67	
5939.00	25.910	102.330	5694.32	-327.11	656.87	911.59	1660448.80	14331334.99	39°27'54.843"N	80°55'44.480"W	1123.60	54.224	7.12	0.74	16.30	
5988.00	26.050	110.110	5738.38	-314.80	650.88	932.16	1660469.36	14331329.00	39°27'54.784"N	80°55'44.217"W	1136.91	55.075	6.96	0.29	15.88	
6034.00	27.250	118.800	5779.51	-300.66	642.33	950.88	1660488.07	14331320.45	39°27'54.699"N	80°55'43.979"W	1147.50	55.960	8.86	2.61	18.89	
6084.00	29.380	126.370	5823.54	-282.12	629.54	970.79	1660507.98	14331307.67	39°27'54.573"N	80°55'43.725"W	1157.05	57.037	8.34	4.26	15.14	
6131.00	32.740	133.400	5863.81	-261.39	613.96	989.32	1660526.50	14331292.09	39°27'54.418"N	80°55'43.489"W	1164.35	58.177	10.51	7.15	14.96	
6179.00	37.390	138.120	5903.09	-236.47	594.18	1008.50	1660545.67	14331272.32	39°27'54.223"N	80°55'43.245"W	1170.52	59.495	11.21	9.69	9.83	
6226.00	42.590	142.620	5939.10	-208.24	570.89	1027.70	1660564.86	14331249.04	39°27'53.993"N	80°55'43.000"W	1175.62	60.947	12.65	11.06	9.57	
6274.00	46.760	145.470	5973.23	-175.99	543.57	1047.48	1660584.63	14331221.73	39°27'53.722"N	80°55'42.748"W	1180.12	62.574	9.64	8.69	5.94	
6321.00	50.110	148.710	6004.41	-141.88	514.04	1066.55	1660603.70	14331192.22	39°27'53.430"N	80°55'42.505"W	1183.97	64.267	8.80	7.13	6.83	
6368.00	53.000	151.380	6033.63	-105.77	482.15	1084.91	1660622.06	14331160.34	39°27'53.115"N	80°55'42.271"W	1187.23	66.039	7.59	6.15	5.68	
6405.00†	55.424	152.083	6055.27	-76.16	455.72	1099.12	1660636.26	14331133.91	39°27'52.854"N	80°55'42.090"W	1189.85	67.480	6.73	6.55	1.91	Middlesex: 6405' MD
6415.00	56.080	152.270	6060.90	-67.99	448.41	1102.98	1660640.12	14331126.61	39°27'52.781"N	80°55'42.041"W	1190.65	67.876	6.73	6.56	1.84	
6463.00	59.640	154.010	6086.43	-27.75	412.15	1121.33	1660658.46	14331090.36	39°27'52.423"N	80°55'41.808"W	1194.68	69.819	8.03	7.42	3.62	



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'
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REFERENCE WELLPATH IDENTIFICATION		Slot	Slot #11
Operator	ANTERO RESOURCES CORPORATION	Well	Dierkes Unit 1H
Area	Tyler County, WV	Wellbore	Dierkes Unit 1H AWB
Field	Tyler		
Facility	Kirk Hadley Pad		

WELLPATH DATA (184 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 (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	Comments
6510.00	62.460	156.020	6109.18	13.13	374.87	1138.69	1660675.81	14331053.10	39°27'52.054"N	80°55'41.587"W	1198.81	71.778	7.07	6.00	4.28	
6557.00	65.680	157.820	6129.73	55.28	335.99	1185.25	1660692.36	14331014.24	39°27'51.670"N	80°55'41.376"W	1203.12	73.783	7.67	6.85	3.83	
6592.00†	68.134	159.573	6143.46	87.44	306.00	1166.94	1660704.05	14330984.26	39°27'51.373"N	80°55'41.227"W	1206.39	75.307	8.39	7.01	5.01	Burkett: 6592' MD
6604.00	68.980	160.160	6147.84	98.61	295.51	1170.78	1660707.89	14330973.77	39°27'51.270"N	80°55'41.178"W	1207.50	75.884	8.39	7.05	4.89	
6652.00	70.840	161.830	6164.33	143.68	252.89	1185.46	1660722.56	14330931.17	39°27'50.848"N	80°55'40.992"W	1212.13	77.958	5.07	3.88	3.48	
6658.00†	71.041	161.850	6165.64	147.46	249.30	1186.64	1660723.74	14330927.58	39°27'50.813"N	80°55'40.977"W	1212.54	78.135	5.04	5.02	0.50	Tully: 6656' MD
6699.00	73.200	162.060	6178.84	188.38	210.39	1199.31	1660736.41	14330888.19	39°27'50.428"N	80°55'40.816"W	1217.63	80.050	5.04	5.02	0.49	
6704.00†	73.310	162.090	6180.28	193.17	205.84	1200.79	1660737.88	14330884.13	39°27'50.393"N	80°55'40.797"W	1218.30	80.273	2.28	2.21	0.61	Marcellus POE: 6704' MD
6747.00	74.260	162.350	6192.29	234.45	166.52	1213.39	1660750.49	14330844.83	39°27'49.994"N	80°55'40.636"W	1224.77	82.186	2.28	2.21	0.60	
6794.00	77.940	163.040	6203.58	280.05	122.97	1226.96	1660764.05	14330801.30	39°27'49.564"N	80°55'40.464"W	1233.11	84.277	7.96	7.83	1.47	
6843.00	82.870	163.290	6211.74	328.32	76.74	1240.95	1660778.03	14330755.09	39°27'49.107"N	80°55'40.286"W	1243.32	86.461	10.07	10.06	0.51	
6890.00	88.520	163.710	6215.27	375.13	31.82	1254.25	1660791.33	14330710.19	39°27'48.663"N	80°55'40.117"W	1254.66	88.547	12.05	12.02	0.89	
6939.00	89.320	163.900	6216.19	424.06	-15.23	1267.92	1660804.99	14330663.16	39°27'48.198"N	80°55'39.943"W	1268.01	90.688	1.68	1.63	0.39	
7034.00	89.780	163.020	6216.94	518.98	-106.29	1294.96	1660832.02	14330572.13	39°27'47.298"N	80°55'39.599"W	1299.32	94.692	1.05	0.48	-0.93	
7129.00	89.690	159.190	6217.38	613.96	-196.16	1325.72	1660862.77	14330482.30	39°27'46.409"N	80°55'39.208"W	1340.15	98.417	4.03	-0.09	-4.03	
7224.00	90.550	156.150	6217.18	708.78	-284.02	1361.81	1660898.84	14330394.47	39°27'45.540"N	80°55'38.749"W	1391.11	101.781	3.33	0.91	-3.20	
7317.00	89.140	154.140	6217.43	801.26	-368.40	1400.90	1660937.91	14330310.13	39°27'44.706"N	80°55'38.251"W	1448.53	104.734	2.64	-1.52	-2.16	
7412.00	89.050	155.070	6218.93	895.63	-454.21	1441.63	1660978.63	14330224.35	39°27'43.858"N	80°55'37.733"W	1511.49	107.488	0.98	-0.09	0.98	
7508.00	89.080	158.540	6220.50	991.32	-542.42	1479.43	1661016.42	14330136.17	39°27'42.986"N	80°55'37.252"W	1575.74	110.135	3.61	0.03	3.61	
7603.00	89.200	161.700	6221.92	1086.29	-631.74	1511.73	1661048.70	14330046.89	39°27'42.103"N	80°55'36.841"W	1638.42	112.680	3.33	0.13	3.33	
7698.00	89.200	161.820	6223.25	1181.27	-721.96	1541.46	1661078.42	14329956.71	39°27'41.211"N	80°55'36.463"W	1702.15	115.096	0.13	0.00	0.13	
7794.00	89.200	161.910	6224.59	1277.25	-813.18	1571.34	1661108.29	14329885.53	39°27'40.309"N	80°55'36.083"W	1769.29	117.362	0.09	0.00	0.09	
7888.00	88.950	161.850	6226.11	1371.23	-902.51	1600.57	1661137.51	14329776.23	39°27'39.426"N	80°55'35.711"W	1837.48	119.417	0.27	-0.27	-0.06	
7983.00	89.170	162.500	6227.67	1466.21	-992.93	1629.65	1661166.57	14329685.84	39°27'38.532"N	80°55'35.341"W	1908.31	121.354	0.72	0.23	0.68	
8087.00	89.230	165.170	6228.12	1570.07	-1092.80	1658.60	1661195.51	14329586.01	39°27'37.545"N	80°55'34.973"W	1986.24	123.380	2.57	0.06	2.57	
8173.00	89.170	165.290	6230.32	1655.85	-1175.95	1680.52	1661217.42	14329502.90	39°27'36.723"N	80°55'34.695"W	2051.10	124.983	0.16	-0.07	0.14	
8269.00	89.140	165.780	6231.73	1751.55	-1268.90	1704.49	1661241.39	14329409.99	39°27'35.804"N	80°55'34.390"W	2124.95	126.666	0.51	-0.03	0.51	
8364.00	89.600	163.730	6232.78	1846.36	-1360.55	1729.47	1661266.36	14329318.38	39°27'34.898"N	80°55'34.072"W	2200.49	128.192	2.21	0.48	-2.16	
8459.00	89.260	161.490	6233.72	1941.31	-1451.19	1757.86	1661294.73	14329227.77	39°27'34.002"N	80°55'33.711"W	2279.48	129.541	2.38	-0.36	-2.36	
8553.00	89.110	159.540	6235.06	2035.29	-1539.80	1789.21	1661326.07	14329139.20	39°27'33.126"N	80°55'33.313"W	2360.56	130.715	2.08	-0.16	-2.07	



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #11
ANTERO RESOURCES CORPORATION	Dierkes Unit 1H
Area	Well
Tyler County, WV	Dierkes Unit 1H AWB
Field	Wellbore
Tyler	
Facility	Kirk Hadley Pad

WELLPATH DATA (184 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
8647.00	89.320	158.690	6236.35	2129.22	-1627.61	1822.72	1661359.57	14329051.42	39°27'32.257"N	80°55'32.886"W	2443.65	131.764	0.93	0.23	-0.90	
8742.00	89.540	158.800	6237.29	2224.14	-1716.15	1857.16	1661393.99	14328982.92	39°27'31.382"N	80°55'32.448"W	2528.67	132.740	0.26	0.23	0.12	
8838.00	89.480	158.480	6238.12	2320.04	-1805.55	1892.12	1661428.94	14328873.56	39°27'30.498"N	80°55'32.003"W	2615.36	133.659	0.34	-0.06	-0.33	
8933.00	89.450	158.350	6239.00	2414.93	-1893.88	1927.07	1661463.87	14328785.26	39°27'29.625"N	80°55'31.559"W	2701.92	134.502	0.14	-0.03	-0.14	
9028.00	89.510	159.170	6239.87	2509.84	-1982.42	1961.48	1661498.27	14328696.75	39°27'28.750"N	80°55'31.121"W	2788.80	135.304	0.87	0.06	0.86	
9122.00	89.420	160.060	6240.74	2603.80	-2070.53	1994.22	1661531.00	14328608.68	39°27'27.878"N	80°55'30.704"W	2874.72	136.076	0.95	-0.10	0.95	
9217.00	89.570	160.490	6241.58	2698.79	-2159.95	2026.28	1661563.05	14328519.29	39°27'26.994"N	80°55'30.297"W	2961.63	136.829	0.48	0.16	0.45	
9311.00	89.450	160.180	6242.38	2792.77	-2248.47	2057.92	1661594.67	14328430.81	39°27'26.119"N	80°55'29.894"W	3048.05	137.534	0.35	-0.13	-0.33	
9407.00	89.540	161.170	6243.23	2888.77	-2339.06	2089.68	1661626.42	14328340.26	39°27'25.224"N	80°55'29.490"W	3136.55	138.223	1.04	0.09	1.03	
9502.00	89.570	161.630	6243.97	2983.76	-2429.09	2119.98	1661656.71	14328250.26	39°27'24.334"N	80°55'29.105"W	3224.10	138.887	0.49	0.03	0.48	
9597.00	89.320	161.360	6244.89	3078.76	-2519.17	2150.13	1661686.85	14328160.22	39°27'23.443"N	80°55'28.721"W	3312.00	139.519	0.39	-0.26	-0.28	
9691.00	89.450	162.650	6245.90	3172.74	-2608.57	2179.17	1661715.88	14328070.86	39°27'22.559"N	80°55'28.352"W	3399.03	140.125	1.38	0.14	1.37	
9786.00	89.420	163.720	6246.83	3267.67	-2699.50	2206.65	1661743.34	14327979.96	39°27'21.660"N	80°55'28.003"W	3486.63	140.736	1.13	-0.03	1.13	
9879.00	89.510	164.250	6247.70	3360.55	-2788.89	2232.31	1661768.99	14327890.61	39°27'20.777"N	80°55'27.677"W	3572.27	141.325	0.58	0.10	0.57	
9975.00	89.480	164.800	6248.55	3456.40	-2881.34	2258.16	1661794.84	14327798.20	39°27'19.863"N	80°55'27.348"W	3660.79	141.913	0.26	-0.03	0.26	
10070.00	89.510	164.910	6249.39	3551.21	-2972.97	2283.22	1661819.88	14327706.61	39°27'18.957"N	80°55'27.030"W	3748.55	142.476	0.43	0.03	0.43	
10165.00	89.570	165.000	6250.15	3646.00	-3064.71	2307.88	1661844.53	14327614.90	39°27'18.050"N	80°55'26.716"W	3836.50	143.018	0.11	0.06	0.09	
10260.00	89.420	165.050	6250.99	3740.78	-3156.48	2332.43	1661869.07	14327523.17	39°27'17.143"N	80°55'26.404"W	3924.74	143.538	0.17	-0.16	0.05	
10355.00	89.600	165.180	6251.80	3835.55	-3248.29	2356.83	1661893.46	14327431.40	39°27'16.235"N	80°55'26.094"W	4013.23	144.037	0.23	0.19	0.14	
10451.00	88.920	164.360	6253.04	3931.35	-3340.91	2382.05	1661918.67	14327338.81	39°27'15.320"N	80°55'25.774"W	4103.15	144.511	1.11	-0.71	-0.85	
10545.00	89.480	164.940	6254.35	4025.16	-3431.54	2406.93	1661943.54	14327248.21	39°27'14.424"N	80°55'25.458"W	4191.51	144.954	0.86	0.60	0.62	
10640.00	89.570	162.490	6255.14	4120.05	-3522.72	2433.56	1661970.17	14327157.07	39°27'13.522"N	80°55'25.119"W	4281.57	145.363	2.58	0.09	-2.58	
10735.00	89.480	159.250	6255.93	4215.04	-3612.46	2464.69	1662001.28	14327067.37	39°27'12.635"N	80°55'24.723"W	4373.17	145.695	3.41	-0.09	-3.41	
10829.00	89.050	155.350	6257.13	4308.80	-3699.16	2500.96	1662037.53	14326980.71	39°27'11.778"N	80°55'24.262"W	4465.26	145.938	4.17	-0.46	-4.15	
10925.00	89.510	153.730	6258.34	4404.15	-3785.82	2542.22	1662078.78	14326894.08	39°27'10.921"N	80°55'23.737"W	4560.19	146.118	1.75	0.48	-1.69	
11021.00	88.550	154.950	6259.96	4499.46	-3872.34	2583.78	1662120.33	14326807.59	39°27'10.066"N	80°55'23.208"W	4655.21	146.287	1.62	-1.00	1.27	
11115.00	89.450	158.040	6261.60	4593.12	-3958.52	2621.26	1662157.79	14326721.45	39°27'09.213"N	80°55'22.731"W	4747.72	146.488	3.42	0.96	3.29	
11210.00	89.420	161.600	6262.54	4688.07	-4047.67	2654.03	1662190.54	14326632.34	39°27'08.332"N	80°55'22.314"W	4840.19	146.747	3.75	-0.03	3.75	
11304.00	89.510	163.650	6263.42	4782.03	-4137.37	2682.10	1662218.60	14326542.67	39°27'07.445"N	80°55'21.957"W	4930.66	147.046	2.18	0.10	2.18	
11399.00	89.540	165.720	6264.21	4876.84	-4228.99	2707.19	1662243.68	14326451.09	39°27'06.540"N	80°55'21.638"W	5021.27	147.375	2.18	0.03	2.18	



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot #11
ANTERO RESOURCES CORPORATION	Well	Dierkes Unit 1H
Tyler County, WV	Wellbore	Dierkes Unit 1H AWB
Tyler		
Kirk Hadley Pad		

WELLPATH DATA (184 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
11494.00	89.540	164.860	6264.97	4971.59	-4320.87	2731.31	1662267.79	14326359.25	39°27'05.631"N	80°55'21.332"W	5111.75	147.702	0.91	0.00	-0.91	
11590.00	89.750	165.130	6266.56	5067.37	-4413.59	2756.16	1662292.63	14326286.56	39°27'04.715"N	80°55'21.016"W	5203.48	148.016	0.36	0.22	0.28	
11685.00	89.540	164.580	6266.15	5162.17	-4505.29	2780.98	1662317.44	14326174.90	39°27'03.808"N	80°55'20.701"W	5294.48	148.314	0.62	-0.22	-0.58	
11781.00	89.480	165.080	6266.97	5257.97	-4597.94	2806.10	1662342.55	14326082.28	39°27'02.892"N	80°55'20.382"W	5386.58	148.604	0.52	-0.06	0.52	
11877.00	89.480	166.280	6267.85	5353.67	-4690.95	2829.85	1662366.29	14325989.31	39°27'01.973"N	80°55'20.080"W	5478.42	148.899	1.25	0.00	1.25	
11971.00	89.510	166.060	6268.87	5447.30	-4782.23	2852.31	1662388.75	14325898.07	39°27'01.070"N	80°55'19.794"W	5568.25	149.186	0.24	0.03	-0.23	
12066.00	89.320	165.840	6269.64	5541.96	-4874.38	2875.38	1662411.80	14325805.96	39°27'00.159"N	80°55'19.501"W	5659.27	149.464	0.31	-0.20	-0.23	
12160.00	89.350	163.590	6270.74	5635.77	-4965.04	2900.15	1662436.57	14325715.33	39°26'59.263"N	80°55'19.187"W	5750.00	149.710	2.39	0.03	-2.39	
12254.00	90.000	164.180	6271.27	5729.66	-5055.35	2926.24	1662462.65	14325625.06	39°26'58.370"N	80°55'18.855"W	5841.18	149.936	0.93	0.69	0.63	
12349.00	89.600	161.060	6271.80	5824.62	-5148.00	2954.62	1662489.01	14325534.45	39°26'57.474"N	80°55'18.494"W	5933.89	150.137	3.31	-0.42	-3.28	
12444.00	89.540	157.880	6272.31	5919.56	-5234.95	2987.93	1662524.31	14325445.53	39°26'56.595"N	80°55'18.071"W	6027.64	150.284	3.35	-0.06	-3.35	
12538.00	89.230	158.230	6273.32	6013.42	-5322.13	3023.06	1662559.42	14325358.38	39°26'55.733"N	80°55'17.624"W	6120.78	150.403	0.50	-0.33	0.37	
12633.00	89.200	160.550	6274.62	6108.36	-5411.04	3056.49	1662592.84	14325269.51	39°26'54.854"N	80°55'17.199"W	6214.62	150.540	2.44	-0.03	2.44	
12728.00	89.350	162.640	6275.83	6203.34	-5501.17	3086.48	1662622.82	14325179.42	39°26'53.963"N	80°55'16.817"W	6307.87	150.705	2.21	0.16	2.20	
12822.00	89.420	162.800	6276.84	6297.30	-5590.92	3114.40	1662650.73	14325089.71	39°26'53.076"N	80°55'16.462"W	6399.83	150.880	0.19	0.07	0.17	
12917.00	89.420	161.550	6277.80	6392.28	-5681.35	3143.48	1662679.80	14324999.31	39°26'52.181"N	80°55'16.093"W	6493.01	151.044	1.32	0.00	-1.32	
13012.00	89.200	160.890	6278.94	6487.27	-5771.29	3174.06	1662710.37	14324909.41	39°26'51.292"N	80°55'15.704"W	6586.53	151.190	0.73	-0.23	-0.69	
13107.00	89.350	159.470	6280.14	6582.25	-5860.65	3206.27	1662742.56	14324820.08	39°26'50.409"N	80°55'15.294"W	6680.37	151.318	1.50	0.16	-1.49	
13202.00	89.380	158.360	6281.20	6677.17	-5949.28	3240.44	1662776.72	14324731.49	39°26'49.533"N	80°55'14.860"W	6774.54	151.424	1.17	0.03	-1.17	
13296.00	89.480	157.810	6282.13	6771.03	-6038.49	3275.53	1662811.79	14324644.32	39°26'48.670"N	80°55'14.414"W	6867.91	151.515	0.59	0.11	-0.59	
13392.00	89.350	156.780	6283.11	6866.81	-6125.04	3312.58	1662848.83	14324555.80	39°26'47.795"N	80°55'13.942"W	6963.42	151.594	1.08	-0.14	-1.07	
13486.00	89.170	156.000	6284.33	6960.47	-6211.16	3350.22	1662886.46	14324469.71	39°26'46.943"N	80°55'13.463"W	7057.09	151.658	0.85	-0.19	-0.83	
13581.00	89.420	154.670	6285.49	7054.97	-6297.49	3389.86	1662926.08	14324383.42	39°26'46.090"N	80°55'12.959"W	7151.89	151.707	1.42	0.26	-1.40	
13675.00	89.450	154.890	6286.42	7148.39	-6382.52	3429.91	1662966.11	14324298.42	39°26'45.249"N	80°55'12.449"W	7245.75	151.747	0.24	0.03	0.23	
13770.00	89.970	154.030	6286.90	7242.74	-6468.24	3470.87	1663007.06	14324212.74	39°26'44.401"N	80°55'11.928"W	7340.64	151.782	1.06	0.55	-0.91	
13865.00	89.290	154.780	6287.52	7337.08	-6553.91	3511.91	1663048.08	14324127.10	39°26'43.554"N	80°55'11.406"W	7435.54	151.815	1.07	-0.72	0.79	
13960.00	89.290	155.610	6288.69	7431.56	-6640.14	3551.76	1663087.91	14324040.91	39°26'42.702"N	80°55'10.899"W	7530.37	151.858	0.87	0.00	0.87	
14055.00	89.380	158.600	6289.80	7526.31	-6727.64	3588.71	1663124.85	14323953.44	39°26'41.837"N	80°55'10.429"W	7624.96	151.923	3.15	0.09	3.15	
14150.00	89.260	159.670	6290.92	7621.24	-6816.40	3622.55	1663158.67	14323864.71	39°26'40.959"N	80°55'09.999"W	7719.21	152.012	1.13	-0.13	1.13	
14245.00	89.420	162.040	6292.02	7716.22	-6906.14	3653.70	1663189.81	14323775.02	39°26'40.072"N	80°55'09.603"W	7813.08	152.119	2.50	0.17	2.49	



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'

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REFERENCE WELLPATH IDENTIFICATION

Operator	Slot #11
ANTERO RESOURCES CORPORATION	Dierkes Unit 1H
Tyler County, WV	Dierkes Unit 1H AWB
Tyler	
Kirk Hadley Pad	

WELLPATH DATA (184 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS ["/100ft]	Build Rate ["/100ft]	Turn Rate ["/100ft]	Comments
14340.00	89.570	161.920	6292.85	7811.21	-6996.47	3683.09	1663219.19	14323684.72	39°26'39.179"N	80°55'09.229"W	7906.69	152.237	0.20	0.18	-0.13	
14435.00	89.170	162.980	6293.90	7906.18	-7087.04	3711.73	1663247.82	14323594.18	39°26'38.283"N	80°55'08.865"W	8000.20	152.357	1.19	-0.42	1.12	
14510.00	89.450	165.560	6294.80	7981.06	-7159.22	3732.06	1663268.14	14323522.03	39°26'37.570"N	80°55'08.607"W	8073.58	152.467	3.46	0.37	3.44	
14535.00	89.450	165.560	6295.04	8005.98	-7183.43	3738.29	1663274.37	14323497.83	39°26'37.331"N	80°55'08.528"W	8097.94	152.507	0.00	0.00	0.00	Projected MD at TD: 14535'

HOLE & CASING SECTIONS - Ref Wellbore: Dierkes Unit 1H AWB Ref Wellpath: Dierkes Unit 1H AWP Proj: 14535'

String/Diameter	Start MID [ft]	End MID [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	25.00	105.00	80.00	25.00	105.00	0.00	0.00	0.00	0.20
17.5in Open Hole	105.00	488.00	383.00	105.00	488.00	0.20	0.20	0.58	0.93
13.375in Casing Surface	25.00	476.70	451.70	25.00	476.70	0.00	0.00	0.57	0.87
12.25in Open Hole	488.00	2590.00	2102.00	488.00	2588.32	0.58	0.93	-11.43	-4.54
9.625in Casing Intermediate	25.00	2579.90	2554.90	25.00	2578.24	0.00	0.00	-10.83	-4.26
8.75in Open Hole	2590.00	5866.00	3276.00	2588.32	5628.48	-11.43	-4.54	660.43	880.31
8.5in Open Hole	5866.00	14535.00	8669.00	5628.48	6295.04	660.43	880.31	-7183.43	3738.29
5.5in Casing Production	25.00	14535.00	14510.00	25.00	6295.04	0.00	0.00	-7183.43	3738.29



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #11
Area	Tyler County, WV	Well	Dierkes Unit 1H
Field	Tyler	Wellbore	Dierkes Unit 1H 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 1H POE Rev-1	6174.00	222.52	1179.17	1660716.28	14330900.81	39°27'50.548"N	80°55'41.072"W	point
Dierkes Unit 1H BHL Rev-1	6209.00	-7199.08	3712.91	1663249.00	14323482.19	39°26'37.176"N	80°55'08.851"W	point
Dierkes Unit 1H LP Rev-1	6209.00	13.23	1250.63	1660787.70	14330691.60	39°27'48.479"N	80°55'40.163"W	point

WELLPATH COMPOSITION - Ref Wellbore: Dierkes Unit 1H AWB Ref Wellpath: Dierkes Unit 1H AWP Proj: 14535'			
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment
25.00	447.00	Gyrodata standard - Drop gyro or Multi-shot	
447.00	625.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(100'-447')
625.00	2506.00	OWSG MWD rev2 + HRGM	02 Gyrodata MS Gyro <12-1/4">(447'-539'-625')
2506.00	5788.00	OWSG MWD rev2 + HRGM	03 WFT EM <12-1/4">(625')(740'-2506')
5788.00	14510.00	BHI AutoTrak Curve (Short)	04 WFT EM <8-3/4">(2506')(2664'-5788')
14510.00	14535.00	Blind Drilling (std)	05 BH AT Curve <8-1/2">(5788')(5845'-14510')
			Projection to bit



Actual Wellpath Report

Dierkes Unit 1H AWP Proj: 14535'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #11
Area	Tyler County, WV	Well	Dierkes Unit 1H
Field	Tyler	Wellbore	Dierkes Unit 1H AWB
Facility	Kirk Hadley Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02550-0000 BHI Job #: 109983823A Rig: Patterson 342 Duration: 09/05/2019-09/07/2019 Gyrodata MS Gyro <17-1/2">(100'-447') Gyrodata MS Gyro <12-1/4">(447')(539'-625') WFT EM <12-1/4">(625')(740'-2506') WFT EM <8-3/4">(2506')(2664'-5788') BH AT Curve <8-1/2">(5788')(5845'-14510') Middlesex: 6405' MD Burkett: 6592' MD Tully: 6656' MD Marcellus POE: 6704' MD Projected MD at TD: 14535'</p>