



# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	11/12/2019 at 11:23:57 AM
Convergence at slot	0.05° East	Database/Source file	WA_MPL_EasternUS_Defn/Daniels_Unit_1H_AWP_Proj_14933_.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	1663784.63	14333840.70	39°28'19.590"N	80°55'01.900"W
Facility Reference Pt			1663784.63	14333840.70	39°28'19.590"N	80°55'01.900"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	761.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	761.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #04)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.25°

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WELLPATH DATA (174 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	244.310	0.00	0.00	0.00	0.00	1663784.63	14333840.70	39°28'19.590"N	80°55'01.900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	244.310	30.00	0.00	0.00	0.00	1663784.63	14333840.70	39°28'19.590"N	80°55'01.900"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.230	244.310	115.00	0.02	-0.07	-0.15	1663784.48	14333840.63	39°28'19.589"N	80°55'01.902"W	0.17	244.310	0.27	0.27	-136.11	Gyrodata MS Gyro <17-1/2">(115'-300')
140.00	0.250	245.640	140.00	0.03	-0.12	-0.25	1663784.38	14333840.58	39°28'19.589"N	80°55'01.903"W	0.28	244.573	0.08	0.08	5.32	
165.00	0.240	248.810	165.00	0.04	-0.16	-0.35	1663784.28	14333840.54	39°28'19.588"N	80°55'01.904"W	0.38	245.306	0.07	-0.04	12.68	
190.00	0.210	247.760	190.00	0.04	-0.20	-0.44	1663784.19	14333840.50	39°28'19.588"N	80°55'01.906"W	0.48	245.922	0.12	-0.12	-4.20	
215.00	0.230	253.540	215.00	0.05	-0.23	-0.53	1663784.10	14333840.47	39°28'19.588"N	80°55'01.907"W	0.58	246.730	0.12	0.08	23.12	
240.00	0.200	274.990	240.00	0.03	-0.24	-0.62	1663784.01	14333840.46	39°28'19.588"N	80°55'01.908"W	0.66	249.025	0.34	-0.12	85.80	
265.00	0.210	267.900	265.00	0.00	-0.24	-0.71	1663783.92	14333840.46	39°28'19.588"N	80°55'01.909"W	0.75	251.625	0.11	0.04	-28.36	
290.00	0.280	298.340	290.00	-0.06	-0.21	-0.81	1663783.82	14333840.49	39°28'19.588"N	80°55'01.910"W	0.84	255.557	0.58	0.28	121.76	
300.00	0.490	319.610	300.00	-0.12	-0.16	-0.86	1663783.77	14333840.54	39°28'19.588"N	80°55'01.911"W	0.87	259.168	2.51	2.10	212.70	
397.00	0.910	335.840	396.99	-1.27	0.85	-1.44	1663783.19	14333841.55	39°28'19.598"N	80°55'01.918"W	1.68	300.639	0.47	0.43	16.73	Gyrodata MS Gyro <12-1/4">(300')(397'-767')
489.00	0.960	330.250	488.98	-2.76	2.19	-2.12	1663782.51	14333842.89	39°28'19.612"N	80°55'01.927"W	3.05	315.878	0.11	0.05	-6.08	
582.00	0.190	274.220	581.97	-3.56	2.86	-2.66	1663781.97	14333843.58	39°28'19.618"N	80°55'01.934"W	3.92	317.206	0.93	-0.83	-60.25	
675.00	0.270	60.510	674.97	-3.68	3.00	-2.63	1663782.01	14333843.70	39°28'19.620"N	80°55'01.933"W	3.99	318.761	0.47	0.09	157.30	
767.00	2.450	29.870	766.94	-5.02	4.81	-1.46	1663783.17	14333845.51	39°28'19.638"N	80°55'01.919"W	5.03	343.121	2.42	2.37	-33.30	
885.00	5.260	30.020	884.66	-10.26	11.68	2.50	1663787.13	14333852.38	39°28'19.705"N	80°55'01.868"W	11.95	12.098	2.38	2.38	0.13	WFT EM <12-1/4">(767')(885'-2585')
981.00	7.370	22.330	980.08	-17.80	21.19	7.05	1663791.67	14333861.88	39°28'19.799"N	80°55'01.810"W	22.33	18.393	2.36	2.20	-8.01	
1076.00	10.510	20.560	1073.91	-29.10	34.94	12.40	1663797.03	14333875.63	39°28'19.935"N	80°55'01.741"W	37.08	19.546	3.32	3.31	-1.86	
1171.00	12.280	15.690	1167.04	-44.14	52.78	18.18	1663802.80	14333893.46	39°28'20.111"N	80°55'01.668"W	55.82	19.006	2.12	1.86	-5.13	
1265.00	12.220	8.910	1258.90	-61.19	72.23	22.42	1663807.05	14333912.90	39°28'20.304"N	80°55'01.613"W	75.63	17.246	1.53	-0.06	-7.21	
1360.00	11.850	6.860	1351.81	-78.89	91.85	25.15	1663809.77	14333932.51	39°28'20.498"N	80°55'01.578"W	95.23	15.311	0.60	-0.39	-2.16	
1454.00	10.140	14.900	1444.09	-94.49	109.43	28.43	1663813.05	14333950.09	39°28'20.671"N	80°55'01.536"W	113.06	14.562	2.44	-1.82	8.55	
1549.00	10.570	26.800	1537.55	-107.55	125.29	34.51	1663819.12	14333965.94	39°28'20.828"N	80°55'01.459"W	129.96	15.398	2.29	0.45	12.53	
1643.00	13.030	28.510	1629.56	-120.78	142.30	43.45	1663828.07	14333982.94	39°28'20.996"N	80°55'01.344"W	148.79	16.981	2.64	2.62	1.82	
1738.00	15.450	27.610	1721.64	-136.79	162.93	54.43	1663839.04	14334003.56	39°28'21.200"N	80°55'01.204"W	171.78	18.474	2.56	2.55	-0.95	
1832.00	15.490	24.400	1812.23	-154.58	185.46	65.42	1663850.02	14334026.08	39°28'21.422"N	80°55'01.064"W	196.66	19.430	0.91	0.04	-3.41	
1927.00	13.810	16.740	1904.15	-173.08	207.87	73.93	1663858.53	14334048.49	39°28'21.644"N	80°55'00.955"W	220.62	19.578	2.70	-1.77	-8.06	
2022.00	12.060	12.190	1996.74	-190.82	228.43	79.29	1663863.89	14334069.04	39°28'21.847"N	80°55'00.886"W	241.80	19.142	2.13	-1.84	-4.79	
2116.00	11.050	14.730	2088.83	-206.76	246.74	83.65	1663868.25	14334087.34	39°28'22.028"N	80°55'00.830"W	260.54	18.728	1.20	-1.07	2.70	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

## WELLPATH DATA (174 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
2211.00	10.210	17.960	2182.20	-221.10	263.56	88.56	1663873.16	14334104.15	39°28'22.194"N	80°55'00.768"W	278.04	18.574	1.08	-0.88	3.40	
2306.00	10.340	16.050	2275.68	-234.85	279.76	93.52	1663878.11	14334120.35	39°28'22.354"N	80°55'00.704"W	294.98	18.484	0.38	0.14	-2.01	
2400.00	9.980	15.900	2368.20	-248.48	295.70	98.08	1663882.67	14334136.28	39°28'22.512"N	80°55'00.646"W	311.54	18.350	0.38	-0.38	-0.16	
2495.00	10.200	18.060	2461.73	-261.99	311.61	102.95	1663887.54	14334152.19	39°28'22.669"N	80°55'00.584"W	328.18	18.282	0.46	0.23	2.27	
2585.00	11.190	18.110	2550.17	-275.35	327.49	108.13	1663892.72	14334168.06	39°28'22.826"N	80°55'00.517"W	344.88	18.272	1.10	1.10	0.06	
2709.00	11.230	12.990	2671.81	-295.25	350.69	114.58	1663899.17	14334191.25	39°28'23.055"N	80°55'00.435"W	368.94	18.094	0.80	0.03	-4.13	WFT EM <8-3/4">(2585')(2709'-5709')
2803.00	10.570	18.490	2764.11	-309.90	367.79	119.38	1663903.96	14334208.34	39°28'23.224"N	80°55'00.373"W	386.68	17.982	1.31	-0.70	5.85	
2898.00	10.500	21.640	2857.51	-323.43	384.10	125.33	1663909.91	14334224.64	39°28'23.385"N	80°55'00.297"W	404.03	18.072	0.61	-0.07	3.32	
2993.00	11.340	19.250	2950.79	-337.38	400.96	131.60	1663916.18	14334241.50	39°28'23.552"N	80°55'00.217"W	422.01	18.171	1.00	0.88	-2.52	
3090.00	12.240	23.660	3045.75	-352.49	419.39	138.87	1663923.45	14334259.92	39°28'23.734"N	80°55'00.124"W	441.78	18.322	1.31	0.93	4.55	
3185.00	12.240	22.390	3138.59	-367.51	437.92	146.75	1663931.32	14334278.44	39°28'23.917"N	80°55'00.024"W	461.86	18.527	0.28	0.00	-1.34	
3279.00	11.920	19.720	3230.51	-382.61	456.27	153.82	1663938.39	14334296.79	39°28'24.098"N	80°54'59.933"W	481.50	18.630	0.68	-0.34	-2.84	
3374.00	11.760	16.610	3323.49	-398.19	474.79	159.90	1663944.47	14334315.29	39°28'24.281"N	80°54'59.855"W	500.99	18.613	0.69	-0.17	-3.27	
3468.00	11.530	19.820	3415.55	-413.35	492.80	165.82	1663950.39	14334333.30	39°28'24.459"N	80°54'59.780"W	519.95	18.598	0.73	-0.24	3.41	
3563.00	11.590	17.740	3508.63	-428.44	510.82	171.95	1663956.51	14334351.32	39°28'24.637"N	80°54'59.701"W	538.99	18.604	0.44	0.06	-2.19	
3658.00	11.720	15.560	3601.67	-444.08	529.21	177.45	1663962.01	14334369.70	39°28'24.819"N	80°54'59.631"W	558.17	18.537	0.48	0.14	-2.29	
3752.00	12.960	16.140	3693.49	-460.62	548.53	182.94	1663967.50	14334389.01	39°28'25.010"N	80°54'59.561"W	578.23	18.444	1.33	1.32	0.62	
3847.00	13.350	20.570	3786.00	-477.84	569.03	189.75	1663974.31	14334409.50	39°28'25.212"N	80°54'59.474"W	599.84	18.442	1.14	0.41	4.66	
3941.00	13.900	19.250	3877.36	-495.13	589.85	197.29	1663981.84	14334430.32	39°28'25.418"N	80°54'59.377"W	621.97	18.494	0.67	0.59	-1.40	
4036.00	13.230	19.620	3969.71	-512.65	610.87	204.70	1663989.25	14334451.32	39°28'25.626"N	80°54'59.282"W	644.25	18.526	0.71	-0.71	0.39	
4130.00	12.080	17.390	4061.42	-529.03	630.39	211.25	1663995.80	14334470.83	39°28'25.818"N	80°54'59.199"W	664.84	18.527	1.33	-1.22	-2.37	
4225.00	12.520	15.910	4154.24	-545.52	649.77	217.05	1664001.59	14334490.21	39°28'26.010"N	80°54'59.125"W	685.07	18.471	0.57	0.46	-1.56	
4320.00	11.450	14.930	4247.17	-561.84	668.79	222.30	1664006.84	14334509.22	39°28'26.198"N	80°54'59.057"W	704.77	18.386	1.15	-1.13	-1.03	
4414.00	10.900	12.760	4339.39	-577.18	686.47	226.67	1664011.21	14334526.90	39°28'26.373"N	80°54'59.002"W	722.93	18.273	0.74	-0.59	-2.31	
4511.00	10.500	16.020	4434.70	-592.26	703.91	231.13	1664015.67	14334544.33	39°28'26.545"N	80°54'58.944"W	740.89	18.178	0.75	-0.41	3.36	
4606.00	10.670	19.560	4528.09	-606.27	720.52	236.46	1664021.00	14334560.93	39°28'26.709"N	80°54'58.876"W	758.33	18.169	0.71	0.18	3.73	
4700.00	12.290	17.950	4620.20	-621.12	738.24	242.46	1664027.00	14334578.64	39°28'26.884"N	80°54'58.799"W	777.04	18.182	1.76	1.72	-1.71	
4795.00	12.760	17.770	4712.94	-637.66	757.85	248.78	1664033.31	14334598.24	39°28'27.078"N	80°54'58.719"W	797.64	18.173	0.50	0.49	-0.19	
4889.00	13.000	19.120	4804.58	-654.35	777.72	255.41	1664039.94	14334618.11	39°28'27.274"N	80°54'58.634"W	818.59	18.181	0.41	0.26	1.44	
4984.00	13.480	17.450	4897.05	-671.72	798.38	262.23	1664046.76	14334638.76	39°28'27.478"N	80°54'58.547"W	840.34	18.183	0.65	0.51	-1.76	

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Field	Tyler		Wellbore	Daniels Unit 1H AWP
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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
5079.00	13.060	19.030	4989.51	-689.14	819.09	269.05	1664053.57	14334659.46	39°28'27.683"N	80°54'58.459"W	862.15	18.184	0.58	-0.44	1.66	
5173.00	11.900	19.020	5081.29	-705.19	838.30	275.67	1664060.19	14334678.66	39°28'27.873"N	80°54'58.375"W	862.46	18.203	1.23	-1.23	-0.01	
5268.00	12.330	15.420	5174.18	-721.33	857.33	281.56	1664066.08	14334697.69	39°28'28.061"N	80°54'58.299"W	902.38	18.181	0.91	0.45	-3.79	
5331.00	10.980	23.450	5235.88	-731.34	869.32	285.74	1664070.26	14334709.67	39°28'28.179"N	80°54'58.246"W	915.08	18.195	3.35	-2.14	12.75	
5394.00	9.000	43.850	5297.94	-738.06	878.39	291.54	1664076.06	14334718.73	39°28'28.269"N	80°54'58.172"W	925.50	18.361	6.39	-3.14	32.38	
5457.00	8.180	80.830	5360.28	-739.58	882.66	299.39	1664083.90	14334723.00	39°28'28.311"N	80°54'58.072"W	932.05	18.736	8.71	-1.30	58.70	
5520.00	13.920	115.440	5422.15	-733.54	880.11	310.68	1664095.18	14334720.46	39°28'28.286"N	80°54'57.928"W	933.33	19.443	13.55	9.11	54.94	
5583.00	19.620	132.260	5482.48	-718.99	869.73	325.37	1664109.87	14334710.08	39°28'28.183"N	80°54'57.741"W	928.60	20.511	11.80	9.05	26.70	
5646.00	23.510	147.510	5541.11	-697.50	852.00	339.96	1664124.46	14334692.35	39°28'28.008"N	80°54'57.555"W	917.32	21.753	10.78	6.17	24.21	
5709.00	27.390	153.910	5597.99	-670.91	828.37	353.09	1664137.58	14334668.73	39°28'27.774"N	80°54'57.388"W	900.48	23.086	7.54	6.16	10.16	
5743.00	27.910	155.780	5628.11	-655.23	814.09	359.80	1664144.28	14334654.46	39°28'27.633"N	80°54'57.302"W	890.05	23.844	2.98	1.53	5.50	BH AT Curve <8-1/2">(5709')(5743'-14908')
5838.00	29.670	158.990	5711.37	-609.60	771.85	377.35	1664161.83	14334612.24	39°28'27.215"N	80°54'57.079"W	859.16	26.053	2.47	1.85	3.38	
5933.00	34.980	158.110	5791.62	-558.88	724.60	395.95	1664180.42	14334565.01	39°28'26.748"N	80°54'56.842"W	825.73	28.654	5.61	5.59	-0.93	
6028.00	42.920	155.810	5885.44	-499.39	669.74	419.39	1664203.85	14334510.17	39°28'26.205"N	80°54'56.544"W	790.21	32.055	8.49	8.36	-2.42	
6100.00†	49.551	156.131	5915.22	-447.64	622.27	440.55	1664225.00	14334462.72	39°28'25.736"N	80°54'56.275"W	762.43	35.297	9.22	9.21	0.45	Middlesex: 6100' MD
6123.00	51.670	156.220	5929.81	-429.93	606.01	447.73	1664232.18	14334446.47	39°28'25.575"N	80°54'56.184"W	753.46	36.457	9.22	9.21	0.39	
6218.00	60.110	158.430	5983.04	-351.53	533.48	477.95	1664262.39	14334373.96	39°28'24.858"N	80°54'55.799"W	716.26	41.858	9.09	8.88	2.33	
6254.00†	62.990	159.274	6000.19	-319.91	503.96	489.36	1664273.80	14334344.46	39°28'24.566"N	80°54'55.654"W	702.46	44.158	8.26	8.00	2.35	Burkett: 6254' MD
6311.00†	67.559	160.528	6024.03	-268.17	455.35	507.14	1664291.57	14334295.86	39°28'24.086"N	80°54'55.428"W	681.57	48.080	8.26	8.02	2.20	Tully: 6311' MD
6313.00	67.720	160.570	6024.79	-266.32	453.60	507.76	1664292.18	14334294.12	39°28'24.088"N	80°54'55.420"W	680.86	48.224	8.26	8.03	2.12	
6375.00†	71.717	161.067	6046.28	-208.18	398.69	526.86	1664311.28	14334239.23	39°28'23.526"N	80°54'55.177"W	660.70	52.884	6.49	6.45	0.80	Marcellus POE: 6375' MD
6409.00	73.910	161.330	6056.32	-175.70	367.94	537.32	1664321.74	14334208.49	39°28'23.222"N	80°54'55.044"W	651.23	55.598	6.49	6.45	0.77	
6504.00	79.410	162.620	6078.23	-83.30	280.07	565.90	1664350.31	14334120.66	39°28'22.353"N	80°54'54.680"W	631.42	63.669	5.94	5.79	1.36	
6598.00	89.230	162.430	6087.53	10.10	190.96	593.96	1664378.35	14334031.58	39°28'21.472"N	80°54'54.324"W	623.90	72.177	10.45	10.45	-0.20	
6692.00	89.880	164.120	6088.26	104.03	100.94	621.01	1664405.39	14333941.60	39°28'20.582"N	80°54'53.980"W	629.16	80.768	1.93	0.69	1.80	
6786.00	89.880	163.500	6088.45	197.94	10.67	647.22	1664431.59	14333851.37	39°28'19.690"N	80°54'53.647"W	647.31	89.055	0.66	0.00	-0.66	
6880.00	89.940	162.500	6088.60	291.89	-79.22	674.70	1664459.06	14333761.51	39°28'18.801"N	80°54'53.297"W	679.34	96.697	1.07	0.06	-1.06	
6973.00	89.780	158.690	6088.83	384.87	-166.92	705.59	1664489.94	14333673.85	39°28'17.934"N	80°54'52.905"W	725.07	103.310	4.10	-0.17	-4.10	
7067.00	89.880	157.000	6089.11	478.70	-253.98	741.04	1664525.37	14333586.82	39°28'17.073"N	80°54'52.454"W	783.36	108.918	1.80	0.11	-1.80	
7161.00	89.910	156.880	6089.28	572.43	-340.47	777.86	1664562.18	14333500.37	39°28'16.218"N	80°54'51.985"W	849.11	113.639	0.13	0.03	-0.13	

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 WV Dept of Environmental Protection



# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

## WELLPATH DATA (174 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
7255.00	89.910	160.410	6089.43	666.32	-428.00	812.08	1664596.39	14333412.87	39°28'15.352"N	80°54'51.550"W	917.97	117.791	3.76	0.00	3.76	
7349.00	89.600	165.160	6089.83	760.26	-517.76	839.90	1664624.19	14333323.15	39°28'14.465"N	80°54'51.196"W	986.66	121.652	5.06	-0.33	5.05	
7443.00	89.540	168.280	6090.53	853.82	-609.23	861.49	1664645.77	14333231.71	39°28'13.561"N	80°54'50.922"W	1055.14	125.268	3.32	-0.06	3.32	
7536.00	89.450	167.470	6091.35	946.19	-700.15	881.02	1664665.30	14333140.83	39°28'12.662"N	80°54'50.674"W	1125.35	128.474	0.88	-0.10	-0.87	
7630.00	89.690	166.760	6092.06	1039.70	-791.78	901.98	1664686.25	14333049.23	39°28'11.756"N	80°54'50.408"W	1200.20	131.278	0.80	0.26	-0.76	
7723.00	89.480	165.900	6092.73	1132.33	-882.15	923.96	1664708.22	14332958.91	39°28'10.863"N	80°54'50.129"W	1277.45	133.674	0.95	-0.23	-0.92	
7816.00	89.630	162.820	6093.46	1225.18	-971.69	949.03	1664733.28	14332869.40	39°28'09.978"N	80°54'49.810"W	1358.24	135.676	3.32	0.16	-3.31	
7910.00	89.420	160.350	6094.23	1319.16	-1060.87	978.72	1664762.96	14332780.26	39°28'09.096"N	80°54'49.433"W	1443.37	137.306	2.64	-0.22	-2.63	
8003.00	89.630	158.750	6095.01	1412.12	-1148.00	1011.21	1664795.43	14332693.16	39°28'08.234"N	80°54'49.019"W	1529.85	138.625	1.74	0.23	-1.72	
8097.00	89.480	156.920	6095.74	1505.94	-1235.05	1046.67	1664830.88	14332606.15	39°28'07.374"N	80°54'48.568"W	1618.91	139.720	1.95	-0.16	-1.95	
8190.00	89.630	157.060	6096.46	1598.68	-1320.64	1083.02	1664867.22	14332520.59	39°28'06.527"N	80°54'48.106"W	1707.93	140.646	0.22	0.16	0.15	
8284.00	89.380	157.100	6097.27	1692.43	-1407.22	1119.63	1664903.81	14332434.05	39°28'05.671"N	80°54'47.640"W	1798.29	141.493	0.27	-0.27	0.04	
8378.00	89.630	155.440	6098.08	1786.07	-1493.27	1157.45	1664941.62	14332348.03	39°28'04.821"N	80°54'47.159"W	1889.32	142.220	1.79	0.27	-1.77	
8471.00	89.720	155.100	6098.61	1878.56	-1577.73	1196.36	1664980.51	14332263.60	39°28'03.985"N	80°54'46.664"W	1980.03	142.828	0.38	0.10	-0.37	
8566.00	89.450	156.520	6099.30	1973.13	-1664.39	1235.28	1665019.42	14332176.98	39°28'03.129"N	80°54'46.169"W	2072.71	143.418	1.52	-0.28	1.49	
8659.00	89.600	157.920	6100.07	2065.89	-1750.13	1271.29	1665055.41	14332091.27	39°28'02.281"N	80°54'45.711"W	2163.13	144.005	1.51	0.16	1.51	
8753.00	89.350	159.040	6100.93	2159.78	-1837.57	1305.77	1665089.88	14332003.87	39°28'01.416"N	80°54'45.272"W	2254.26	144.603	1.22	-0.27	1.19	
8846.00	89.540	160.250	6101.83	2252.73	-1924.76	1338.12	1665122.21	14331916.71	39°28'00.554"N	80°54'44.861"W	2344.19	145.192	1.32	0.20	1.30	
8940.00	89.350	160.990	6102.74	2346.72	-2013.43	1369.31	1665153.39	14331828.08	39°27'59.678"N	80°54'44.464"W	2434.93	145.781	0.81	-0.20	0.79	
9033.00	89.690	162.860	6103.52	2439.71	-2101.83	1398.16	1665182.23	14331739.71	39°27'58.804"N	80°54'44.097"W	2524.39	146.368	2.04	0.37	2.01	
9127.00	89.450	164.600	6104.23	2533.62	-2192.06	1424.49	1665208.55	14331649.52	39°27'57.912"N	80°54'43.763"W	2614.25	146.982	1.87	-0.26	1.85	
9220.00	89.450	165.730	6105.12	2626.39	-2281.95	1448.30	1665232.35	14331559.66	39°27'57.023"N	80°54'43.460"W	2702.76	147.598	1.21	0.00	1.22	
9313.00	89.540	166.800	6105.94	2719.03	-2372.29	1470.38	1665254.42	14331469.36	39°27'56.130"N	80°54'43.180"W	2791.02	148.209	1.15	0.10	1.15	
9407.00	89.480	166.890	6106.74	2812.58	-2463.82	1491.77	1665275.81	14331377.87	39°27'55.225"N	80°54'42.908"W	2880.24	148.806	0.12	-0.06	0.10	
9502.00	89.660	169.510	6107.46	2906.87	-2556.80	1511.20	1665295.22	14331284.92	39°27'54.306"N	80°54'42.662"W	2970.01	149.415	2.76	0.19	2.76	
9595.00	89.570	169.970	6108.08	2998.85	-2648.31	1527.76	1665311.78	14331193.45	39°27'53.401"N	80°54'42.452"W	3057.39	150.020	0.50	-0.10	0.49	
9690.00	89.540	165.300	6108.82	3093.23	-2741.08	1548.10	1665332.11	14331100.72	39°27'52.484"N	80°54'42.193"W	3148.04	150.543	4.92	-0.03	-4.92	
9784.00	89.420	160.470	6109.67	3187.16	-2830.89	1575.75	1665359.75	14331010.95	39°27'51.596"N	80°54'41.842"W	3239.90	150.898	5.14	-0.13	-5.14	
9878.00	89.570	156.330	6110.50	3281.02	-2918.26	1610.35	1665394.33	14330923.61	39°27'50.732"N	80°54'41.402"W	3333.09	151.109	4.41	0.16	-4.40	
9972.00	89.570	155.130	6111.21	3374.58	-3003.95	1648.99	1665432.96	14330837.95	39°27'49.885"N	80°54'40.910"W	3426.79	151.236	1.28	0.00	-1.28	

Prepared by:  
 Office of Oil Spill Response  
 SEP 24 2010  
 Environmental Response  
 10000



# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

WELLPATH DATA (174 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
10066.00	89.600	155.380	6111.89	3468.06	-3089.32	1688.33	1665472.28	14330752.62	39°27'49.041"N	80°54'40.410"W	3520.56	151.343	0.27	0.03	0.27	
10160.00	89.510	154.200	6112.62	3561.46	-3174.36	1728.37	1665512.30	14330667.61	39°27'48.200"N	80°54'39.900"W	3614.39	151.433	1.26	-0.10	-1.26	
10255.00	89.380	153.860	6113.54	3655.71	-3259.76	1769.97	1665553.89	14330582.24	39°27'47.356"N	80°54'39.371"W	3709.29	151.499	0.38	-0.14	-0.36	
10349.00	88.980	154.470	6114.88	3748.98	-3344.36	1810.92	1665594.83	14330497.68	39°27'46.519"N	80°54'38.850"W	3803.18	151.565	0.78	-0.43	0.65	
10443.00	89.420	157.580	6116.20	3842.57	-3430.23	1849.11	1665633.00	14330411.85	39°27'45.670"N	80°54'38.364"W	3896.88	151.673	3.34	0.47	3.31	
10536.00	89.380	159.460	6117.17	3935.45	-3516.76	1883.16	1665667.04	14330325.35	39°27'44.815"N	80°54'37.931"W	3989.23	151.832	2.02	-0.04	2.02	
10631.00	89.450	163.080	6118.14	4030.43	-3606.71	1913.66	1665697.52	14330235.43	39°27'43.925"N	80°54'37.543"W	4082.95	152.050	3.81	0.07	3.81	
10725.00	89.420	164.180	6119.07	4124.34	-3696.90	1940.15	1665724.01	14330145.29	39°27'43.034"N	80°54'37.207"W	4175.07	152.309	1.17	-0.03	1.17	
10819.00	89.660	159.620	6119.82	4218.31	-3786.22	1969.35	1665753.19	14330056.00	39°27'42.151"N	80°54'36.836"W	4267.76	152.519	4.86	0.26	-4.85	
10913.00	89.350	157.910	6120.63	4312.21	-3873.83	2003.39	1665787.22	14329968.43	39°27'41.284"N	80°54'36.403"W	4361.21	152.654	1.85	-0.33	-1.82	
11006.00	89.140	161.280	6121.86	4405.15	-3960.97	2035.81	1665819.62	14329881.32	39°27'40.423"N	80°54'35.991"W	4453.52	152.798	3.63	-0.23	3.62	
11100.00	89.510	162.790	6122.97	4499.14	-4050.38	2064.80	1665848.60	14329791.94	39°27'39.539"N	80°54'35.622"W	4546.31	152.988	1.65	0.39	1.61	
11194.00	89.480	162.230	6123.80	4593.11	-4140.03	2093.05	1665876.84	14329702.33	39°27'38.653"N	80°54'35.263"W	4639.04	153.181	0.60	-0.03	-0.60	
11288.00	89.570	163.560	6124.58	4687.06	-4229.87	2120.69	1665904.47	14329612.53	39°27'37.764"N	80°54'34.912"W	4731.72	153.373	1.42	0.10	1.41	
11381.00	89.880	165.620	6125.02	4779.90	-4319.52	2145.40	1665929.18	14329522.91	39°27'36.878"N	80°54'34.598"W	4822.97	153.587	2.24	0.33	2.22	
11475.00	89.630	168.290	6125.42	4873.43	-4411.08	2166.62	1665950.38	14329431.39	39°27'35.973"N	80°54'34.328"W	4914.46	153.841	2.85	-0.27	2.84	
11569.00	89.540	168.250	6126.10	4966.72	-4503.12	2185.73	1665969.48	14329339.39	39°27'35.063"N	80°54'34.086"W	5005.55	154.109	0.10	-0.10	-0.04	
11664.00	89.570	165.780	6126.84	5061.23	-4595.68	2207.07	1665990.82	14329246.86	39°27'34.148"N	80°54'33.815"W	5098.18	154.347	2.60	0.03	-2.60	
11758.00	89.450	163.770	6127.65	5155.04	-4686.37	2231.76	1666015.49	14329156.21	39°27'33.251"N	80°54'33.502"W	5190.65	154.635	2.14	-0.13	-2.14	
11853.00	89.630	162.650	6128.41	5249.98	-4777.32	2259.20	1666042.92	14329065.30	39°27'32.352"N	80°54'33.153"W	5284.58	154.690	1.19	0.19	-1.18	
11947.00	89.570	161.970	6129.07	5343.96	-4866.87	2287.76	1666071.47	14328975.78	39°27'31.467"N	80°54'32.790"W	5377.76	154.823	0.73	-0.06	-0.72	
12042.00	89.600	163.290	6129.75	5438.93	-4957.53	2316.12	1666099.82	14328885.16	39°27'30.571"N	80°54'32.429"W	5471.89	154.958	1.39	0.03	1.39	
12137.00	89.880	164.160	6130.18	5533.84	-5048.72	2342.74	1666126.43	14328794.00	39°27'29.669"N	80°54'32.091"W	5565.79	155.107	0.96	0.29	0.92	
12232.00	89.690	164.110	6130.54	5628.72	-5140.11	2368.71	1666152.39	14328702.66	39°27'28.766"N	80°54'31.761"W	5659.64	155.258	0.21	-0.20	-0.05	
12326.00	89.750	163.360	6131.00	5722.63	-5230.34	2395.04	1666178.71	14328612.46	39°27'27.874"N	80°54'31.427"W	5752.62	155.396	0.80	0.06	-0.80	
12421.00	89.750	161.670	6131.42	5817.60	-5320.95	2423.58	1666207.24	14328521.89	39°27'26.978"N	80°54'31.064"W	5846.90	155.512	1.78	0.00	-1.78	
12516.00	89.690	159.000	6131.88	5912.58	-5410.40	2455.55	1666239.19	14328432.47	39°27'26.093"N	80°54'30.658"W	5941.56	155.589	2.81	-0.06	-2.81	
12610.00	89.600	157.830	6132.46	6006.46	-5497.80	2490.13	1666273.76	14328345.10	39°27'25.229"N	80°54'30.218"W	6035.44	155.633	1.25	-0.10	-1.24	
12705.00	89.690	155.790	6133.05	6101.17	-5585.12	2527.53	1666311.15	14328257.82	39°27'24.366"N	80°54'29.742"W	6130.42	155.651	2.15	0.09	-2.15	
12799.00	89.660	155.360	6133.58	6194.71	-5670.71	2566.40	1666350.00	14328172.27	39°27'23.519"N	80°54'29.248"W	6224.41	155.650	0.46	-0.03	-0.46	

Environmental Protection  
 WV Department of  
 SEP 24 2020  
 Office of Oil and Gas



# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #04
Area	Tyler County, WV		Well	Daniels Unit 1H
Field	Tyler		Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad			

WELLPATH DATA (174 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
12891.00	89.750	155.980	6134.06	6286.27	-5754.53	2604.31	1666387.89	14328088.47	39°27'22.691"N	80°54'28.766"W	6316.41	155.650	0.68	0.10	0.87	
12986.00	89.720	156.820	6134.50	6380.93	-5841.59	2642.34	1666425.91	14328001.46	39°27'21.830"N	80°54'28.282"W	6411.40	155.661	0.88	-0.03	0.88	
13081.00	89.780	159.240	6134.91	6475.77	-5929.68	2677.88	1666461.43	14327913.40	39°27'20.959"N	80°54'27.830"W	6506.32	155.696	2.55	0.06	2.55	
13176.00	89.820	159.180	6135.24	6570.71	-6018.49	2711.60	1666495.14	14327824.62	39°27'20.081"N	80°54'27.401"W	6601.14	155.746	0.08	0.04	-0.06	
13271.00	89.720	158.120	6135.62	6665.61	-6106.97	2746.18	1666529.71	14327736.18	39°27'19.206"N	80°54'26.962"W	6696.02	155.788	1.12	-0.11	-1.12	
13365.00	89.820	156.870	6136.00	6759.40	-6193.81	2782.16	1666565.67	14327649.37	39°27'18.347"N	80°54'26.504"W	6789.97	155.811	1.33	0.11	-1.33	
13459.00	89.820	157.650	6136.30	6853.17	-6280.50	2818.50	1666602.00	14327562.72	39°27'17.490"N	80°54'26.042"W	6883.94	155.831	0.83	0.00	0.83	
13555.00	89.780	159.160	6136.63	6949.05	-6369.76	2853.83	1666637.31	14327473.49	39°27'16.607"N	80°54'25.593"W	6979.84	155.866	1.57	-0.04	1.57	
13648.00	89.780	160.860	6136.99	7042.03	-6457.16	2885.62	1666669.09	14327386.14	39°27'15.743"N	80°54'25.189"W	7072.60	155.921	1.83	0.00	1.83	
13742.00	89.630	161.870	6137.47	7136.02	-6546.23	2915.65	1666699.11	14327297.10	39°27'14.863"N	80°54'24.807"W	7166.18	155.992	1.09	-0.16	1.07	
13836.00	89.450	161.820	6138.23	7230.02	-6635.54	2944.94	1666728.39	14327207.82	39°27'13.980"N	80°54'24.435"W	7259.69	156.068	0.20	-0.19	-0.05	
13930.00	89.540	162.910	6139.06	7323.99	-6725.12	2973.42	1666756.86	14327118.28	39°27'13.094"N	80°54'24.073"W	7353.13	156.148	1.16	0.10	1.16	
14023.00	89.540	163.600	6139.80	7416.93	-6814.17	3000.21	1666783.64	14327029.26	39°27'12.214"N	80°54'23.732"W	7445.42	156.237	0.74	0.00	0.74	
14116.00	89.450	163.890	6140.62	7509.84	-6903.45	3026.24	1666809.66	14326940.02	39°27'11.331"N	80°54'23.402"W	7537.63	156.329	0.33	-0.10	0.31	
14210.00	89.510	164.030	6141.48	7603.73	-6993.79	3052.21	1666835.62	14326849.72	39°27'10.438"N	80°54'23.072"W	7630.80	156.423	0.16	0.06	0.15	
14304.00	89.540	164.470	6142.26	7697.60	-7084.26	3077.73	1666861.12	14326759.29	39°27'09.544"N	80°54'22.748"W	7723.93	156.518	0.47	0.03	0.47	
14398.00	89.600	164.580	6142.96	7791.44	-7174.85	3102.81	1666886.19	14326668.73	39°27'08.648"N	80°54'22.429"W	7817.02	156.614	0.13	0.06	0.12	
14492.00	89.290	163.570	6143.87	7885.32	-7265.23	3128.60	1666911.97	14326578.38	39°27'07.754"N	80°54'22.102"W	7910.23	156.702	1.12	-0.33	-1.07	
14586.00	89.230	162.720	6145.09	7979.26	-7355.19	3155.85	1666939.22	14326488.46	39°27'06.865"N	80°54'21.755"W	8003.64	156.778	0.91	-0.06	-0.90	
14680.00	89.320	162.300	6146.27	8073.23	-7444.83	3184.10	1666967.45	14326398.85	39°27'05.979"N	80°54'21.397"W	8097.16	156.844	0.46	0.10	-0.45	
14774.00	89.290	161.430	6147.42	8167.22	-7534.16	3213.36	1666996.70	14326309.57	39°27'05.096"N	80°54'21.025"W	8190.80	156.902	0.93	-0.03	-0.93	
14868.00	89.450	160.680	6148.45	8261.21	-7623.06	3243.87	1667027.20	14326220.70	39°27'04.217"N	80°54'20.637"W	8284.55	156.949	0.82	0.17	-0.80	
14908.00	89.200	161.040	6148.92	8301.21	-7660.85	3256.99	1667040.31	14326182.93	39°27'03.843"N	80°54'20.470"W	8324.45	156.967	1.10	-0.63	0.90	
14933.00	89.200	161.040	6149.27	8326.21	-7684.49	3265.11	1667048.43	14326159.30	39°27'03.609"N	80°54'20.367"W	8349.39	156.980	0.00	0.00	0.00	Projected MD at TD: 14933'

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 Antero Resources



# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Daniels Unit 1H AWB Ref Wellpath: Daniels Unit 1H AWP Proj: 14933'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	95.00	65.00	30.00	95.00	0.00	0.00	-0.04	-0.09
17.5in Open Hole	95.00	399.00	304.00	95.00	398.99	-0.04	-0.09	0.88	-1.46
13.375in Casing Surface	30.00	399.00	369.00	30.00	398.99	0.00	0.00	0.88	-1.46
12.25in Open Hole	399.00	2668.00	2269.00	398.99	2631.59	0.88	-1.46	342.95	112.68
9.625in Casing Intermediate	30.00	2668.00	2638.00	30.00	2631.59	0.00	0.00	342.95	112.68
8.75in Open Hole	2668.00	5781.00	3113.00	2631.59	5661.58	342.95	112.68	797.60	366.98
8.5in Open Hole	5781.00	14933.00	9152.00	5661.58	6149.27	797.60	366.98	-7684.49	3265.11
5.5in Casing Production	30.00	14933.00	14903.00	30.00	6149.27	0.00	0.00	-7684.49	3265.11

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Daniels Unit 1H - POE - Rev-2	6044.00	422.36	511.56	1664295.99	14334262.89	39°28'23.760"N	80°54'55.372"W	point
Daniels Unit 1H - LP - Rev-2	6082.00	212.34	582.84	1664367.24	14334052.95	39°28'21.683"N	80°54'54.465"W	point
Daniels Unit 1H - BHL - Rev-3	6082.00	-7708.86	3271.15	1667054.47	14326134.94	39°27'03.368"N	80°54'20.290"W	point

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# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

WELLPATH COMPOSITION - Ref Wellbore: Daniels Unit 1H AWB Ref Wellpath: Daniels Unit 1H AWP Proj: 14933'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	300.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(115'-300')	Daniels Unit 1H AWB
300.00	767.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(300')(397'-767')	Daniels Unit 1H AWB
767.00	2585.00	OWSG MWD rev2 + HRGM	03 WFT EM <12-1/4">(767')(885'-2585')	Daniels Unit 1H AWB
2585.00	5709.00	OWSG MWD rev2 + HRGM	04 WFT EM <8-3/4">(2585')(2709'-5709')	Daniels Unit 1H AWB
5709.00	14908.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(5709')(5743'-14908')	Daniels Unit 1H AWB
14908.00	14933.00	Blind Drilling (std)	Projection to bit	Daniels Unit 1H AWB

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# Actual Wellpath Report

Daniels Unit 1H AWP Proj: 14933'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Daniels Unit 1H
Field	Tyler	Wellbore	Daniels Unit 1H AWB
Facility	Ferrell South Pad		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-095-02566-0000            BHI Job #: 110086759A            Rig: H&amp;P 519            Duration: 11/07/2019-11/09/2019            Gyrodata MS Gyro &lt;17-1/2"&gt;(115'-300')            Gyrodata MS Gyro &lt;12-1/4"&gt;(300')(397'-767')            WFT EM &lt;12-1/4"&gt;(767')(885'-2585')            WFT EM &lt;8-3/4"&gt;(2585')(2709'-5709')            BH AT Curve &lt;8-1/2"&gt;(5709')(5743'-14908')            Middlesex: 6100' MD            Burkett: 6254' MD            Tully: 6311' MD            Marcellus POE: 6375' MD            Projected MD at TD: 14933'</p>

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