



# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H 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	10/22/2019 at 1:50:32 PM
Convergence at slot	0.05° East	Database/Source file	WA_MPL_EasternUS_Defn/Daniels_Unit_3H_AWP_Proj_19845_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	29.34	-0.03	1663784.60	14333870.03	39°28'19.880"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 #06)	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	161.16°

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## WELLPATH DATA (228 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	0.000	118.560	0.00	0.00	0.00	0.00	1663784.60	14333870.03	39°28'19.880"N	80°55'01.900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	118.560	30.00	0.00	0.00	0.00	1663784.60	14333870.03	39°28'19.880"N	80°55'01.900"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.360	118.560	115.00	0.20	-0.13	0.23	1663784.84	14333869.90	39°28'19.879"N	80°55'01.897"W	0.27	118.560	0.42	0.42	139.48	Gyrodata MS Gyro <17-1/2">(115'-270')
140.00	0.410	116.360	140.00	0.32	-0.20	0.38	1663784.99	14333869.82	39°28'19.878"N	80°55'01.895"W	0.43	118.108	0.21	0.20	0.20	-8.80
165.00	0.320	118.390	165.00	0.43	-0.28	0.53	1663785.13	14333869.75	39°28'19.877"N	80°55'01.893"W	0.59	117.878	0.36	-0.36	5.12	
190.00	0.250	136.560	190.00	0.53	-0.35	0.62	1663785.23	14333869.68	39°28'19.877"N	80°55'01.892"W	0.72	119.326	0.45	-0.28	72.68	
215.00	0.220	160.370	215.00	0.63	-0.44	0.68	1663785.28	14333869.59	39°28'19.876"N	80°55'01.891"W	0.81	122.719	0.41	-0.12	95.24	
240.00	0.230	176.770	240.00	0.73	-0.53	0.70	1663785.30	14333869.50	39°28'19.875"N	80°55'01.891"W	0.88	127.299	0.26	0.04	65.60	
265.00	0.290	198.440	265.00	0.83	-0.64	0.68	1663785.26	14333869.39	39°28'19.874"N	80°55'01.891"W	0.93	133.322	0.46	0.24	86.68	
270.00	0.300	204.390	270.00	0.85	-0.66	0.67	1663785.27	14333869.37	39°28'19.873"N	80°55'01.891"W	0.94	134.771	0.64	0.20	119.00	
417.00	0.740	295.690	416.99	0.46	-0.60	-0.34	1663784.26	14333869.43	39°28'19.874"N	80°55'01.904"W	0.70	209.688	0.55	0.30	62.11	WFT EM <12-1/4">(270')(417'-2583')
508.00	2.070	15.710	507.97	-1.31	1.23	-0.43	1663784.18	14333871.26	39°28'19.892"N	80°55'01.905"W	1.31	340.828	2.28	1.46	87.93	
601.00	5.140	39.280	600.78	-4.89	6.08	2.66	1663787.27	14333876.10	39°28'19.940"N	80°55'01.866"W	6.63	23.677	3.60	3.30	25.34	
693.00	7.330	54.870	692.23	-8.71	12.64	10.07	1663794.68	14333882.67	39°28'20.005"N	80°55'01.771"W	16.17	38.547	2.99	2.38	16.95	
785.00	10.120	59.960	783.16	-11.93	20.07	21.87	1663806.47	14333890.09	39°28'20.078"N	80°55'01.621"W	29.69	47.464	3.14	3.03	5.53	
878.00	12.080	54.180	874.42	-16.36	29.86	36.84	1663821.43	14333899.87	39°28'20.175"N	80°55'01.430"W	47.42	50.978	2.42	2.11	-6.22	
976.00	14.470	48.390	969.80	-24.09	43.99	54.31	1663838.90	14333914.00	39°28'20.314"N	80°55'01.207"W	69.89	50.994	2.79	2.44	-5.91	
1071.00	18.040	48.440	1060.99	-34.37	61.64	74.20	1663858.77	14333931.64	39°28'20.489"N	80°55'00.953"W	96.46	50.284	3.76	3.76	0.05	
1165.00	21.020	50.600	1149.57	-45.92	82.00	98.12	1663882.69	14333951.99	39°28'20.690"N	80°55'00.648"W	127.87	50.116	3.26	3.17	2.30	
1260.00	22.250	55.360	1237.88	-56.80	103.04	126.09	1663910.64	14333973.03	39°28'20.897"N	80°55'00.291"W	162.84	50.745	2.25	1.29	5.01	
1354.00	20.970	56.060	1325.27	-66.03	122.55	154.69	1663939.23	14333992.53	39°28'21.090"N	80°54'59.926"W	197.35	51.613	1.39	-1.36	0.74	
1448.00	17.510	48.170	1414.03	-75.94	141.38	179.19	1663963.72	14334011.35	39°28'21.276"N	80°54'59.613"W	228.25	51.727	4.60	-3.68	-8.39	
1543.00	16.840	46.620	1504.79	-87.23	160.36	199.84	1663984.37	14334030.33	39°28'21.463"N	80°54'59.350"W	256.23	51.255	0.85	-0.71	-1.63	
1637.00	18.050	51.290	1594.47	-97.84	178.82	221.10	1664005.62	14334048.78	39°28'21.645"N	80°54'59.078"W	284.37	51.035	1.97	1.29	4.97	
1731.00	22.260	57.220	1682.70	-107.08	197.58	247.45	1664031.96	14334067.53	39°28'21.830"N	80°54'58.742"W	316.65	51.394	4.97	4.48	6.31	
1826.00	22.560	59.330	1770.53	-115.16	216.62	278.25	1664062.75	14334086.56	39°28'22.018"N	80°54'58.349"W	352.63	52.100	0.90	0.32	2.22	
1921.00	21.510	58.430	1858.59	-122.73	235.03	308.77	1664093.25	14334104.97	39°28'22.200"N	80°54'57.960"W	388.04	52.722	1.16	-1.11	-0.95	
2015.00	19.890	51.320	1946.53	-131.96	254.05	335.94	1664120.41	14334123.98	39°28'22.388"N	80°54'57.613"W	421.19	52.902	3.18	-1.72	-7.56	
2110.00	20.700	49.740	2035.63	-143.57	275.00	361.37	1664145.83	14334144.92	39°28'22.595"N	80°54'57.289"W	454.11	52.729	1.03	0.85	-1.66	
2204.00	21.700	52.850	2123.27	-155.10	296.23	387.90	1664172.35	14334166.14	39°28'22.804"N	80°54'56.950"W	488.08	52.631	1.60	1.06	3.31	

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Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

## WELLPATH DATA (228 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
2299.00	18.540	52.000	2212.47	-165.58	316.14	413.81	1664198.24	14334186.05	39°28'23.001"N	80°54'56.620"W	520.75	52.621	3.34	-3.33	-0.89	
2394.00	16.880	47.530	2302.96	-176.06	334.76	435.88	1664220.31	14334204.65	39°28'23.185"N	80°54'56.338"W	549.60	52.476	2.26	-1.75	-4.71	
2488.00	16.160	46.730	2393.08	-186.94	352.94	455.48	1664239.90	14334222.83	39°28'23.364"N	80°54'56.088"W	576.22	52.229	0.80	-0.77	-0.85	
2583.00	16.400	49.520	2484.28	-197.36	370.71	475.30	1664259.72	14334240.59	39°28'23.539"N	80°54'55.835"W	602.77	52.048	0.86	0.25	2.94	
2692.00	14.670	50.890	2589.29	-207.81	389.40	497.72	1664282.12	14334259.28	39°28'23.724"N	80°54'55.549"W	631.95	51.961	1.62	-1.59	1.26	WFT EM <8-3/4">(2583)(2692-6166)
2787.00	17.370	47.920	2680.59	-217.58	406.50	517.58	1664301.98	14334276.37	39°28'23.893"N	80°54'55.295"W	658.13	51.855	2.97	2.84	-3.13	
2881.00	20.780	50.640	2769.42	-228.97	426.48	540.90	1664325.28	14334296.34	39°28'24.090"N	80°54'54.998"W	688.81	51.745	3.75	3.63	2.89	
2976.00	23.770	52.440	2857.32	-241.02	448.85	569.11	1664353.49	14334318.70	39°28'24.311"N	80°54'54.638"W	724.81	51.738	3.23	3.15	1.89	
3073.00	26.670	50.960	2945.07	-254.81	474.48	601.52	1664385.88	14334344.32	39°28'24.564"N	80°54'54.224"W	766.13	51.734	3.06	2.99	-1.53	
3168.00	29.300	50.280	3028.95	-270.46	502.77	635.97	1664420.32	14334372.60	39°28'24.843"N	80°54'53.784"W	810.70	51.672	2.79	2.77	-0.72	
3262.00	29.960	52.980	3110.66	-285.99	531.60	672.40	1664456.74	14334401.42	39°28'25.128"N	80°54'53.319"W	857.16	51.670	1.58	0.70	2.87	
3356.00	30.970	53.400	3191.69	-300.69	560.16	710.56	1664494.88	14334429.96	39°28'25.410"N	80°54'52.832"W	904.80	51.750	1.10	1.07	0.45	
3451.00	31.310	53.190	3273.00	-315.76	589.52	749.95	1664534.25	14334459.31	39°28'25.700"N	80°54'52.330"W	953.91	51.830	0.38	0.36	-0.22	
3546.00	30.720	51.270	3354.42	-331.63	619.49	788.64	1664572.93	14334489.27	39°28'25.995"N	80°54'51.836"W	1002.86	51.850	1.21	-0.62	-2.02	
3641.00	30.820	51.100	3436.04	-348.23	649.96	826.51	1664610.78	14334519.72	39°28'26.296"N	80°54'51.353"W	1051.46	51.819	0.14	0.11	-0.18	
3736.00	31.260	51.510	3517.44	-364.87	680.58	864.74	1664649.00	14334550.34	39°28'26.598"N	80°54'50.865"W	1100.44	51.796	0.51	0.46	0.43	
3831.00	30.660	52.270	3598.90	-381.00	710.74	903.19	1664687.43	14334580.49	39°28'26.896"N	80°54'50.374"W	1149.31	51.800	0.75	-0.63	0.80	
3925.00	31.290	52.120	3679.50	-396.72	740.40	941.42	1664725.64	14334610.13	39°28'27.189"N	80°54'49.886"W	1197.69	51.816	0.68	0.67	-0.16	
4020.00	31.180	53.890	3760.73	-412.07	770.04	980.76	1664764.97	14334639.76	39°28'27.482"N	80°54'49.384"W	1246.93	51.863	0.97	-0.12	1.86	
4114.00	30.410	54.870	3841.48	-425.97	798.07	1019.87	1664804.07	14334667.78	39°28'27.758"N	80°54'48.885"W	1295.01	51.956	0.98	-0.82	1.04	
4209.00	29.260	53.590	3923.88	-439.72	825.69	1058.22	1664842.40	14334695.39	39°28'28.031"N	80°54'48.396"W	1342.24	52.037	1.38	-1.21	-1.35	
4304.00	29.010	51.980	4006.87	-454.30	853.66	1095.06	1664879.22	14334723.34	39°28'28.307"N	80°54'47.926"W	1388.48	52.062	0.87	-0.26	-1.69	
4398.00	28.550	52.580	4089.25	-468.94	881.35	1130.85	1664915.00	14334751.02	39°28'28.580"N	80°54'47.469"W	1433.74	52.068	0.58	-0.49	0.64	
4493.00	28.070	54.230	4172.89	-482.69	908.21	1167.02	1664951.15	14334777.87	39°28'28.845"N	80°54'47.007"W	1478.77	52.109	0.97	-0.51	1.74	
4588.00	27.900	53.470	4256.78	-495.95	934.50	1203.01	1664987.13	14334804.16	39°28'29.105"N	80°54'46.548"W	1523.33	52.160	0.42	-0.18	-0.80	
4684.00	28.690	52.860	4341.31	-510.01	961.78	1239.43	1665023.54	14334831.43	39°28'29.374"N	80°54'46.083"W	1568.83	52.189	0.88	0.82	-0.64	
4779.00	29.180	53.940	4424.46	-524.03	989.18	1276.33	1665060.42	14334858.82	39°28'29.645"N	80°54'45.612"W	1614.78	52.224	0.75	0.52	1.14	
4874.00	29.290	53.160	4507.36	-538.06	1016.75	1313.65	1665097.73	14334886.37	39°28'29.917"N	80°54'45.136"W	1661.16	52.261	0.42	0.12	-0.82	
4969.00	30.100	51.540	4589.88	-553.24	1045.50	1350.90	1665134.97	14334915.11	39°28'30.200"N	80°54'44.661"W	1708.22	52.263	1.20	0.85	-1.71	
5063.00	29.470	52.120	4671.46	-568.70	1074.36	1387.61	1665171.66	14334943.96	39°28'30.485"N	80°54'44.192"W	1754.91	52.251	0.74	-0.67	0.62	

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5158.00	30.370	51.100	4753.80	-584.56	1103.79	1424.75	1665208.78	14334973.38	39°28'30.776"N	80°54'43.718"W	1802.29	52.234	1.09	0.95	-1.07	
5252.00	29.800	50.750	4835.14	-600.86	1133.49	1461.33	1665245.35	14335003.06	39°28'31.069"N	80°54'43.252"W	1849.40	52.201	0.63	-0.61	-0.37	
5347.00	27.740	51.340	4918.41	-616.59	1162.24	1496.88	1665280.88	14335031.80	39°28'31.353"N	80°54'42.798"W	1895.11	52.173	2.19	-2.17	0.62	
5441.00	28.270	51.580	5001.40	-631.47	1189.74	1531.40	1665315.39	14335059.29	39°28'31.624"N	80°54'42.357"W	1939.24	52.156	0.58	0.56	0.26	
5536.00	28.710	52.000	5084.89	-646.50	1217.77	1567.01	1665350.98	14335087.31	39°28'31.901"N	80°54'41.903"W	1984.56	52.148	0.51	0.46	0.44	
5631.00	27.740	54.330	5168.60	-660.39	1244.71	1602.95	1665386.91	14335114.24	39°28'32.167"N	80°54'41.444"W	2029.47	52.170	1.55	-1.02	2.45	
5725.00	26.720	56.460	5252.18	-672.09	1269.14	1638.34	1665422.29	14335138.66	39°28'32.408"N	80°54'40.993"W	2072.41	52.237	1.50	-1.09	2.27	
5788.00	26.710	60.630	5308.46	-678.27	1283.92	1662.49	1665446.42	14335153.43	39°28'32.554"N	80°54'40.684"W	2100.55	52.322	2.98	-0.02	6.62	
5851.00	26.230	68.810	5364.88	-681.43	1295.90	1687.81	1665471.74	14335165.41	39°28'32.672"N	80°54'40.361"W	2127.92	52.483	5.83	-0.76	12.98	
5914.00	25.290	75.770	5421.63	-680.92	1304.24	1713.85	1665497.76	14335173.74	39°28'32.754"N	80°54'40.029"W	2153.67	52.729	5.02	-1.49	11.05	
5977.00	24.700	87.720	5478.77	-676.08	1308.07	1740.06	1665523.97	14335177.58	39°28'32.792"N	80°54'39.695"W	2176.89	53.066	8.06	-0.94	18.97	
6040.00	26.680	98.000	5535.56	-665.94	1306.63	1767.23	1665551.13	14335176.13	39°28'32.777"N	80°54'39.348"W	2197.81	53.522	7.73	3.14	16.32	
6103.00	28.170	108.810	5591.52	-650.46	1299.86	1795.34	1665579.22	14335169.37	39°28'32.710"N	80°54'38.990"W	2216.50	54.095	8.24	2.37	17.16	
6166.00	31.310	119.680	5646.25	-629.09	1286.95	1823.66	1665607.53	14335156.46	39°28'32.582"N	80°54'38.629"W	2232.03	54.790	9.89	4.98	17.25	
6231.00	34.690	125.010	5700.77	-601.48	1267.96	1853.50	1665637.36	14335137.48	39°28'32.394"N	80°54'38.249"W	2245.70	55.624	6.85	5.20	8.20	BH AT Curve <8-1/2">(6166')(6231-19820')
6284.00	37.310	127.360	5743.65	-575.95	1249.56	1878.63	1665662.48	14335119.09	39°28'32.212"N	80°54'37.929"W	2256.24	56.370	5.59	4.94	4.43	
6378.00	42.500	129.850	5815.73	-525.11	1211.90	1925.68	1665709.51	14335081.44	39°28'31.839"N	80°54'37.329"W	2275.29	57.816	5.78	5.52	2.65	
6474.00	46.520	137.500	5884.23	-465.44	1165.38	1974.16	1665757.98	14335034.95	39°28'31.379"N	80°54'36.711"W	2292.48	59.446	6.98	4.19	7.97	
6558.00†	52.969	146.569	5938.55	-404.94	1114.82	2013.31	1665797.11	14334984.40	39°28'30.879"N	80°54'36.213"W	2301.36	61.026	11.25	7.68	10.80	Middlesex: 6558' MD
6568.00	53.780	147.540	5944.51	-397.16	1108.08	2017.68	1665801.47	14334977.67	39°28'30.813"N	80°54'36.157"W	2301.93	61.225	11.25	8.11	9.71	
6663.00	60.430	153.280	5996.11	-318.85	1038.73	2056.89	1665840.67	14334908.34	39°28'30.127"N	80°54'35.658"W	2304.29	63.206	8.64	7.00	6.04	
6734.00†	65.431	157.699	6028.42	-255.98	981.22	2083.05	1665866.82	14334850.86	39°28'29.558"N	80°54'35.325"W	2302.58	64.777	8.96	7.04	6.22	Burkett: 6734' MD
6758.00	67.150	159.110	6038.07	-234.03	960.79	2091.14	1665874.90	14334830.43	39°28'29.356"N	80°54'35.222"W	2301.30	65.323	8.96	7.16	5.88	
6786.00†	68.896	160.459	6048.55	-208.08	936.42	2100.11	1665883.87	14334806.08	39°28'29.115"N	80°54'35.108"W	2299.42	65.968	7.67	6.23	4.82	Tully: 6786' MD
6852.00	73.050	163.520	6070.07	-145.71	877.10	2119.37	1665903.12	14334746.78	39°28'28.529"N	80°54'34.863"W	2293.70	67.518	7.67	6.29	4.64	
6870.00†	73.892	163.755	6075.19	-128.47	860.55	2124.23	1665907.98	14334730.23	39°28'28.365"N	80°54'34.802"W	2291.92	67.947	4.84	4.68	1.31	Marcellus POE: 6870' MD
6899.00	75.250	164.130	6082.90	-100.55	833.68	2131.96	1665915.71	14334703.38	39°28'28.099"N	80°54'34.703"W	2289.17	68.643	4.84	4.68	1.29	
6947.00	78.230	163.730	6093.91	-53.89	788.79	2144.90	1665928.64	14334658.51	39°28'27.656"N	80°54'34.539"W	2285.34	69.809	6.26	6.21	-0.83	
6994.00	81.820	164.350	6102.05	-7.67	744.29	2157.62	1665941.36	14334614.03	39°28'27.216"N	80°54'34.377"W	2282.39	70.968	7.75	7.64	1.32	
7041.00	84.050	164.840	6107.83	38.89	699.33	2170.01	1665953.74	14334569.08	39°28'26.771"N	80°54'34.220"W	2279.91	72.137	4.86	4.74	1.04	

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 SEP 24 2020



# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

## WELLPATH DATA (228 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
7088.00	86.710	164.970	6111.62	85.63	654.10	2182.21	1665965.94	14334523.87	39°28'26.324"N	80°54'34.065"W	2278.13	73.314	5.67	5.66	0.28	
7136.00	89.880	164.440	6113.05	133.51	607.83	2194.86	1665978.59	14334477.62	39°28'25.867"N	80°54'33.904"W	2277.47	74.521	6.70	6.60	-1.10	
7230.00	90.000	161.890	6113.15	227.45	517.87	2222.08	1666005.80	14334387.69	39°28'24.977"N	80°54'33.558"W	2281.63	76.881	2.72	0.13	-2.71	
7325.00	90.090	160.330	6113.07	322.45	427.99	2252.84	1666036.54	14334297.84	39°28'24.089"N	80°54'33.167"W	2293.13	79.243	1.64	0.09	-1.64	
7419.00	90.120	159.600	6112.90	416.42	339.68	2285.04	1666066.73	14334209.57	39°28'23.215"N	80°54'32.758"W	2310.15	81.545	0.78	0.03	-0.78	
7514.00	90.120	157.690	6112.70	511.33	251.20	2319.64	1666103.31	14334121.13	39°28'22.341"N	80°54'32.318"W	2333.20	83.819	2.01	0.00	-2.01	
7608.00	89.750	157.020	6112.81	605.12	164.45	2355.83	1666139.49	14334034.41	39°28'21.483"N	80°54'31.857"W	2361.56	86.007	0.81	-0.39	-0.71	
7703.00	89.720	157.730	6113.25	699.91	76.76	2392.37	1666176.02	14333946.76	39°28'20.616"N	80°54'31.392"W	2393.60	88.162	0.75	-0.03	0.75	
7797.00	89.690	157.690	6113.73	793.74	-10.21	2428.03	1666211.66	14333859.82	39°28'19.756"N	80°54'30.939"W	2428.05	90.241	0.05	-0.03	-0.04	
7892.00	89.660	158.030	6114.27	888.58	-98.21	2463.83	1666247.44	14333771.86	39°28'18.886"N	80°54'30.483"W	2465.78	92.283	0.36	-0.03	0.36	
7986.00	89.600	158.540	6114.88	982.46	-185.53	2498.61	1666282.21	14333684.57	39°28'18.022"N	80°54'30.041"W	2505.49	94.247	0.55	-0.06	0.54	
8081.00	89.480	160.090	6115.64	1077.40	-274.40	2532.16	1666315.75	14333595.74	39°28'17.144"N	80°54'29.614"W	2546.99	96.185	1.64	-0.13	1.63	
8175.00	89.660	161.310	6116.34	1171.40	-363.12	2563.23	1666346.80	14333507.06	39°28'16.267"N	80°54'29.219"W	2588.82	98.063	1.31	0.19	1.30	
8270.00	89.510	161.440	6117.03	1266.39	-453.14	2593.57	1666377.13	14333417.07	39°28'15.377"N	80°54'28.834"W	2632.86	99.911	0.21	-0.16	0.14	
8364.00	89.110	161.410	6118.16	1360.39	-542.24	2623.51	1666407.06	14333328.01	39°28'14.496"N	80°54'28.453"W	2678.96	101.678	0.43	-0.43	-0.03	
8459.00	89.420	161.970	6119.38	1455.37	-632.42	2653.35	1666436.89	14333237.86	39°28'13.604"N	80°54'28.074"W	2727.68	103.406	0.67	0.33	0.59	
8554.00	89.320	162.500	6120.48	1550.35	-722.88	2682.34	1666465.86	14333147.44	39°28'12.710"N	80°54'27.705"W	2778.04	105.083	0.57	-0.11	0.56	
8648.00	89.260	162.070	6121.59	1644.33	-812.42	2710.94	1666494.45	14333057.94	39°28'11.824"N	80°54'27.342"W	2830.05	106.683	0.46	-0.06	-0.46	
8743.00	89.110	161.690	6122.94	1739.31	-902.70	2740.48	1666523.98	14332967.69	39°28'10.932"N	80°54'26.966"W	2885.32	108.232	0.43	-0.16	-0.40	
8837.00	89.290	162.190	6124.26	1833.29	-992.06	2769.62	1666553.11	14332878.37	39°28'10.048"N	80°54'26.596"W	2941.93	109.707	0.57	0.19	0.53	
8931.00	89.320	163.340	6125.40	1927.24	-1081.83	2797.47	1666580.95	14332788.63	39°28'09.161"N	80°54'26.242"W	2999.36	111.142	1.22	0.03	1.22	
9026.00	89.290	163.910	6126.55	2022.15	-1172.97	2824.25	1666607.72	14332697.53	39°28'08.260"N	80°54'25.902"W	3058.14	112.554	0.60	-0.03	0.60	
9121.00	89.260	164.550	6127.75	2117.00	-1264.38	2850.06	1666633.52	14332606.15	39°28'07.356"N	80°54'25.574"W	3117.94	113.924	0.67	-0.03	0.67	
9215.00	88.890	166.210	6129.27	2210.73	-1355.33	2873.78	1666657.24	14332515.25	39°28'06.457"N	80°54'25.272"W	3177.35	115.249	1.81	-0.39	1.77	
9310.00	90.030	166.150	6130.16	2305.36	-1447.57	2896.48	1666679.92	14332423.04	39°28'05.545"N	80°54'24.984"W	3238.06	116.554	1.20	1.20	-0.06	
9404.00	90.340	165.190	6129.86	2399.07	-1538.64	2919.74	1666703.17	14332332.00	39°28'04.645"N	80°54'24.689"W	3300.35	117.788	1.07	0.33	-1.02	
9498.00	90.370	164.160	6129.28	2492.89	-1629.30	2944.58	1666728.01	14332241.39	39°28'03.749"N	80°54'24.373"W	3365.29	118.957	1.10	0.03	-1.10	
9593.00	90.030	161.880	6128.95	2587.83	-1720.15	2972.33	1666755.74	14332150.57	39°28'02.850"N	80°54'24.021"W	3434.19	120.059	2.43	-0.36	-2.40	
9688.00	90.280	160.880	6128.69	2682.83	-1810.18	3002.66	1666786.06	14332060.58	39°28'01.960"N	80°54'23.635"W	3506.09	121.084	1.09	0.26	-1.05	
9782.00	89.720	159.010	6128.69	2776.81	-1898.47	3034.89	1666818.28	14331972.32	39°28'01.087"N	80°54'23.225"W	3579.77	122.028	2.08	-0.60	-1.99	

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 WV Department of Environmental Protection



# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #06
Area	Tyler County, WV		Well	Daniels Unit 3H
Field	Tyler		Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad			

WELLPATH DATA (228 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
9876.00	89.750	159.050	6129.12	2870.74	-1986.25	3068.53	1666851.90	14331884.58	39°28'00.219"N	80°54'22.797"W	3655.28	122.915	0.05	0.03	0.04	
9971.00	89.600	156.900	6129.66	2965.59	-2074.31	3104.15	1666887.51	14331796.56	39°27'59.349"N	80°54'22.344"W	3733.43	123.752	2.27	-0.16	-2.26	
10065.00	89.660	156.530	6130.27	3059.30	-2160.65	3141.31	1666924.66	14331710.25	39°27'58.495"N	80°54'21.872"W	3812.64	124.521	0.40	0.06	-0.39	
10160.00	89.690	157.190	6130.81	3154.03	-2248.00	3178.64	1666961.97	14331622.93	39°27'57.631"N	80°54'21.397"W	3893.24	125.269	0.70	0.03	0.69	
10254.00	89.780	157.730	6131.24	3247.84	-2334.82	3214.68	1666997.99	14331536.15	39°27'56.773"N	80°54'20.939"W	3973.10	125.991	0.58	0.10	0.57	
10349.00	89.410	158.100	6131.91	3342.68	-2422.85	3250.39	1667033.69	14331448.15	39°27'55.902"N	80°54'20.484"W	4054.04	126.701	0.55	-0.39	0.39	
10443.00	88.620	158.860	6133.53	3436.56	-2510.28	3284.87	1667068.16	14331360.76	39°27'55.038"N	80°54'20.046"W	4134.23	127.387	1.17	-0.84	0.81	
10537.00	89.380	161.560	6135.17	3530.53	-2598.71	3316.69	1667099.96	14331272.37	39°27'54.164"N	80°54'19.641"W	4213.51	128.080	2.98	0.81	2.87	
10632.00	89.290	162.570	6136.27	3625.51	-2689.08	3345.94	1667129.20	14331182.03	39°27'53.270"N	80°54'19.270"W	4292.61	128.788	1.07	-0.09	1.06	
10726.00	89.320	165.570	6137.41	3719.37	-2779.46	3371.73	1667154.99	14331091.69	39°27'52.377"N	80°54'18.942"W	4369.67	129.500	3.19	0.03	3.19	
10821.00	89.350	166.870	6138.52	3813.99	-2871.71	3394.36	1667177.60	14330999.47	39°27'51.465"N	80°54'18.655"W	4446.17	130.232	1.37	0.03	1.37	
10916.00	89.410	165.750	6139.54	3908.60	-2964.01	3416.84	1667200.08	14330907.21	39°27'50.552"N	80°54'18.369"W	4523.29	130.941	1.18	0.06	-1.18	
11010.00	89.450	164.040	6140.48	4002.39	-3054.75	3441.34	1667224.56	14330816.50	39°27'49.655"N	80°54'18.058"W	4601.55	131.594	1.82	0.04	-1.82	
11105.00	89.260	163.890	6141.55	4097.27	-3146.05	3467.58	1667250.79	14330725.24	39°27'48.752"N	80°54'17.725"W	4682.06	132.217	0.25	-0.20	-0.16	
11199.00	89.410	163.230	6142.64	4191.18	-3236.20	3494.18	1667277.38	14330635.13	39°27'47.861"N	80°54'17.387"W	4762.59	132.805	0.72	0.16	-0.70	
11294.00	89.780	162.450	6143.31	4286.14	-3326.97	3522.20	1667305.40	14330544.40	39°27'46.964"N	80°54'17.031"W	4845.06	133.367	0.91	0.39	-0.82	
11388.00	90.800	162.750	6142.84	4380.10	-3416.67	3550.31	1667333.49	14330454.74	39°27'46.077"N	80°54'16.674"W	4927.30	133.901	1.13	1.09	0.32	
11483.00	90.520	160.650	6141.74	4475.09	-3506.85	3580.14	1667363.31	14330364.59	39°27'45.185"N	80°54'16.295"W	5011.53	134.407	2.23	-0.29	-2.21	
11577.00	89.750	157.970	6141.52	4569.03	-3594.78	3613.35	1667396.50	14330276.69	39°27'44.316"N	80°54'15.872"W	5096.93	134.852	2.97	-0.82	-2.85	
11672.00	89.660	156.870	6142.01	4663.82	-3682.49	3649.82	1667432.96	14330189.01	39°27'43.449"N	80°54'15.409"W	5184.78	135.255	1.16	-0.09	-1.16	
11766.00	90.920	160.290	6141.53	4757.71	-3769.98	3684.15	1667467.27	14330101.56	39°27'42.584"N	80°54'14.972"W	5271.22	135.660	3.88	1.34	3.64	
11861.00	90.220	159.960	6140.59	4852.69	-3859.32	3716.44	1667499.55	14330012.26	39°27'41.700"N	80°54'14.562"W	5357.83	136.080	0.81	-0.74	-0.35	
11955.00	90.150	160.010	6140.29	4946.67	-3947.64	3748.61	1667531.71	14329923.97	39°27'40.827"N	80°54'14.153"W	5443.90	136.481	0.09	-0.07	0.05	
12050.00	90.150	160.790	6140.04	5041.66	-4037.14	3780.48	1667563.57	14329834.51	39°27'39.942"N	80°54'13.748"W	5530.87	136.880	0.82	0.00	0.82	
12145.00	90.120	160.430	6139.81	5136.66	-4126.75	3812.02	1667595.10	14329744.94	39°27'39.056"N	80°54'13.347"W	5617.97	137.270	0.38	-0.03	-0.38	
12239.00	90.250	160.620	6139.51	5230.65	-4215.37	3843.36	1667626.42	14329656.35	39°27'38.180"N	80°54'12.948"W	5704.45	137.643	0.24	0.14	0.20	
12334.00	90.150	161.480	6139.18	5325.65	-4305.21	3874.23	1667657.28	14329566.54	39°27'37.292"N	80°54'12.556"W	5791.76	138.016	0.89	-0.11	0.88	
12428.00	90.120	161.420	6138.96	5419.65	-4394.33	3904.15	1667687.18	14329477.47	39°27'36.411"N	80°54'12.176"W	5878.13	138.380	0.05	-0.03	-0.04	
12523.00	90.120	161.430	6138.76	5514.65	-4484.38	3934.41	1667717.43	14329387.45	39°27'35.520"N	80°54'11.791"W	5965.67	138.738	0.01	0.00	0.01	
12617.00	89.850	162.180	6138.78	5608.64	-4573.68	3963.76	1667746.77	14329298.19	39°27'34.637"N	80°54'11.418"W	6052.26	139.096	0.85	-0.29	0.80	



# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #06
Area	Tyler County, WV		Well	Daniels Unit 3H
Field	Tyler		Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad			

WELLPATH DATA (228 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
12711.00	89.350	161.290	6139.44	5702.63	-4662.94	3993.22	1667776.22	14329208.96	39°27'33.755"N	80°54'11.044"W	6139.12	139.424	1.09	-0.53	-0.95	
12806.00	89.320	161.160	6140.54	5797.63	-4752.88	4023.79	1667806.78	14329119.06	39°27'32.866"N	80°54'10.655"W	6227.42	139.749	0.14	-0.03	-0.14	
12901.00	89.420	161.640	6141.58	5892.62	-4842.91	4054.09	1667837.07	14329029.07	39°27'31.976"N	80°54'10.270"W	6315.81	140.067	0.52	0.11	0.51	
12995.00	89.140	160.720	6142.77	5986.61	-4931.87	4084.41	1667867.38	14328940.13	39°27'31.096"N	80°54'09.885"W	6403.58	140.370	1.02	-0.30	-0.98	
13089.00	89.350	161.040	6144.00	6080.60	-5020.68	4115.20	1667898.15	14328851.36	39°27'30.218"N	80°54'09.494"W	6491.70	140.660	0.41	0.22	0.34	
13184.00	89.200	161.220	6145.21	6175.59	-5110.57	4145.92	1667928.86	14328761.51	39°27'29.329"N	80°54'09.103"W	6580.77	140.949	0.25	-0.16	0.19	
13278.00	89.480	162.210	6146.29	6269.58	-5199.81	4175.41	1667958.34	14328672.30	39°27'28.447"N	80°54'08.728"W	6668.74	141.236	1.09	0.30	1.05	
13373.00	89.020	162.160	6147.53	6364.56	-5290.25	4204.47	1667987.39	14328581.90	39°27'27.553"N	80°54'08.359"W	6757.54	141.524	0.49	-0.48	-0.05	
13468.00	88.950	163.020	6149.22	6459.51	-5380.88	4232.89	1667928.86	14328491.31	39°27'26.657"N	80°54'07.998"W	6846.26	141.809	0.91	-0.07	0.91	
13562.00	88.890	163.270	6150.99	6553.44	-5470.83	4260.15	1668043.04	14328401.40	39°27'25.767"N	80°54'07.652"W	6933.89	142.092	0.27	-0.06	0.27	
13656.00	89.020	164.170	6152.70	6647.33	-5561.04	4286.49	1668069.38	14328311.22	39°27'24.875"N	80°54'07.317"W	7021.34	142.375	0.97	0.14	0.96	
13751.00	88.890	164.300	6154.43	6742.18	-5652.46	4312.30	1668095.17	14328219.84	39°27'23.972"N	80°54'06.989"W	7109.58	142.660	0.19	-0.14	0.14	
13845.00	88.890	164.680	6156.26	6836.00	-5743.02	4337.43	1668120.29	14328129.32	39°27'23.076"N	80°54'06.670"W	7196.91	142.938	0.40	0.00	0.40	
13940.00	88.920	164.340	6158.07	6930.82	-5834.55	4362.80	1668145.65	14328037.82	39°27'22.171"N	80°54'06.348"W	7285.32	143.213	0.36	0.03	-0.36	
14034.00	89.570	164.280	6159.31	7024.67	-5925.04	4388.21	1668171.06	14327947.37	39°27'21.277"N	80°54'06.025"W	7373.09	143.476	0.69	0.69	-0.06	
14129.00	89.820	164.050	6159.82	7119.54	-6016.43	4414.14	1668196.97	14327856.01	39°27'20.373"N	80°54'05.696"W	7462.04	143.733	0.36	0.26	-0.24	
14223.00	89.750	162.940	6160.17	7213.46	-6106.56	4440.84	1668223.66	14327765.93	39°27'19.482"N	80°54'05.357"W	7550.57	143.974	1.18	-0.07	-1.18	
14318.00	89.820	161.750	6160.52	7308.43	-6197.08	4469.65	1668252.46	14327675.44	39°27'18.587"N	80°54'04.991"W	7640.78	144.199	1.25	0.07	-1.25	
14412.00	89.850	160.780	6160.80	7402.43	-6286.10	4499.84	1668282.64	14327586.46	39°27'17.707"N	80°54'04.607"W	7730.69	144.403	1.03	0.03	-1.03	
14507.00	90.060	159.670	6160.87	7497.42	-6375.49	4531.99	1668314.77	14327497.10	39°27'16.823"N	80°54'04.199"W	7822.14	144.593	1.19	0.22	-1.17	
14601.00	90.150	159.020	6160.70	7591.37	-6463.45	4565.14	1668347.91	14327409.17	39°27'15.954"N	80°54'03.777"W	7913.07	144.766	0.70	0.10	-0.69	
14696.00	90.120	158.510	6160.47	7686.29	-6552.00	4599.55	1668382.31	14327320.66	39°27'15.078"N	80°54'03.340"W	8005.28	144.931	0.54	-0.03	-0.54	
14791.00	90.340	158.830	6160.09	7781.20	-6640.49	4634.11	1668416.85	14327232.20	39°27'14.203"N	80°54'02.901"W	8097.60	145.091	0.41	0.23	0.34	
14885.00	90.150	158.660	6159.69	7875.11	-6728.10	4668.18	1668450.91	14327144.63	39°27'13.337"N	80°54'02.467"W	8188.97	145.246	0.27	-0.20	-0.18	
14979.00	89.850	157.750	6159.69	7968.99	-6815.38	4703.08	1668485.80	14327057.39	39°27'12.474"N	80°54'02.024"W	8280.60	145.392	1.02	-0.32	-0.97	
15074.00	89.690	156.850	6160.07	8063.77	-6903.01	4739.74	1668522.45	14326969.79	39°27'11.607"N	80°54'01.558"W	8373.58	145.526	0.96	-0.17	-0.95	
15169.00	89.690	157.250	6160.59	8158.52	-6990.49	4776.79	1668559.47	14326882.34	39°27'10.742"N	80°54'01.087"W	8466.68	145.654	0.42	0.00	0.42	
15263.00	89.780	158.380	6161.02	8252.36	-7077.53	4812.28	1668594.95	14326795.34	39°27'09.882"N	80°54'00.635"W	8558.59	145.787	1.21	0.10	1.20	
15358.00	89.690	158.590	6161.46	8347.25	-7165.91	4847.12	1668629.78	14326706.99	39°27'09.006"N	80°54'00.193"W	8651.29	145.925	0.24	-0.09	0.22	
15452.00	89.750	158.730	6161.92	8441.16	-7253.47	4881.33	1668663.97	14326619.47	39°27'08.142"N	80°53'59.758"W	8743.00	146.061	0.16	0.06	0.16	

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# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

WELLPATH DATA (228 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
15547.00	89.750	158.100	6162.33	8536.05	-7341.80	4916.27	1668698.90	14326531.17	39°27'07.269"N	80°53'59.313"W	8835.83	146.193	0.66	0.00	-0.66	
15641.00	89.690	157.770	6162.79	8629.90	-7428.92	4951.59	1668734.20	14326444.09	39°27'06.407"N	80°53'58.864"W	8927.88	146.315	0.36	-0.06	-0.35	
15736.00	89.690	157.920	6163.31	8724.74	-7516.90	4987.41	1668770.01	14326356.15	39°27'05.537"N	80°53'58.409"W	9020.98	146.436	0.16	0.00	0.16	
15830.00	89.720	158.680	6163.79	8818.62	-7604.24	5022.17	1668804.75	14326268.84	39°27'04.674"N	80°53'57.967"W	9112.99	146.558	0.81	0.03	0.81	
15925.00	89.820	159.830	6164.17	8913.57	-7693.08	5055.81	1668838.39	14326180.04	39°27'03.795"N	80°53'57.540"W	9205.69	146.687	1.22	0.11	1.21	
16019.00	89.660	160.950	6164.60	9007.56	-7781.62	5087.36	1668869.92	14326091.53	39°27'02.920"N	80°53'57.139"W	9297.04	146.825	1.20	-0.17	1.19	
16114.00	89.690	162.000	6165.14	9102.55	-7871.70	5117.54	1668900.09	14326001.49	39°27'02.029"N	80°53'56.755"W	9388.98	146.971	1.11	0.03	1.11	
16208.00	89.540	162.290	6165.77	9196.54	-7961.17	5146.36	1668928.90	14325912.06	39°27'01.145"N	80°53'56.389"W	9479.73	147.120	0.35	-0.16	0.31	
16303.00	89.350	162.550	6166.69	9291.51	-8051.73	5175.06	1668957.58	14325821.54	39°27'00.249"N	80°53'56.025"W	9571.39	147.270	0.34	-0.20	0.27	
16397.00	89.320	163.630	6167.78	9385.45	-8141.65	5202.40	1668984.91	14325731.64	39°26'59.360"N	80°53'55.677"W	9661.86	147.422	1.15	-0.03	1.15	
16492.00	89.260	164.720	6168.96	9480.31	-8233.05	5228.30	1669010.81	14325640.29	39°26'58.457"N	80°53'55.348"W	9752.85	147.583	1.15	-0.06	1.15	
16586.00	89.480	164.890	6169.99	9574.11	-8323.75	5252.94	1669035.43	14325549.62	39°26'57.560"N	80°53'55.036"W	9842.67	147.745	0.30	0.23	0.18	
16681.00	89.570	164.840	6170.78	9668.91	-8415.46	5277.74	1669060.23	14325457.95	39°26'56.653"N	80°53'54.721"W	9933.50	147.906	0.11	0.09	-0.05	
16775.00	90.220	164.030	6170.95	9762.76	-8506.01	5302.96	1669085.44	14325367.44	39°26'55.758"N	80°53'54.401"W	10023.65	148.059	1.10	0.69	-0.86	
16870.00	90.340	163.240	6170.49	9857.67	-8597.16	5329.73	1669112.19	14325276.32	39°26'54.857"N	80°53'54.061"W	10115.19	148.204	0.84	0.13	-0.83	
16964.00	89.380	161.610	6170.72	9951.64	-8686.76	5358.11	1669140.57	14325186.75	39°26'53.971"N	80°53'53.700"W	10206.33	148.333	2.01	-1.02	-1.73	
17059.00	89.660	160.880	6171.51	10046.63	-8776.72	5388.65	1669171.10	14325096.84	39°26'53.081"N	80°53'53.312"W	10298.95	148.451	0.82	0.29	-0.77	
17153.00	89.880	159.280	6171.89	10140.61	-8865.09	5420.68	1669203.11	14325008.50	39°26'52.208"N	80°53'52.905"W	10391.03	148.556	1.72	0.23	-1.70	
17248.00	89.260	157.930	6172.60	10235.51	-8953.54	5455.33	1669237.75	14324920.09	39°26'51.333"N	80°53'52.465"W	10484.58	148.646	1.56	-0.65	-1.42	
17342.00	89.350	156.510	6173.74	10329.28	-9040.20	5491.73	1669274.13	14324833.46	39°26'50.476"N	80°53'52.002"W	10577.53	148.722	1.51	0.10	-1.51	
17437.00	89.720	156.170	6174.51	10423.94	-9127.21	5529.85	1669312.23	14324746.49	39°26'49.616"N	80°53'51.517"W	10671.70	148.790	0.53	0.39	-0.36	
17531.00	89.110	156.920	6175.47	10517.63	-9213.43	5567.26	1669349.63	14324660.29	39°26'48.763"N	80°53'51.042"W	10764.84	148.857	1.03	-0.65	0.80	
17626.00	89.080	158.820	6176.97	10612.46	-9301.42	5603.04	1669385.40	14324572.34	39°26'47.893"N	80°53'50.587"W	10858.66	148.936	2.00	-0.03	2.00	
17721.00	89.050	160.700	6178.53	10707.41	-9390.54	5635.90	1669418.24	14324483.26	39°26'47.012"N	80°53'50.169"W	10951.97	149.029	1.98	-0.03	1.98	
17815.00	88.980	163.040	6180.14	10801.39	-9479.85	5665.15	1669447.48	14324393.98	39°26'46.129"N	80°53'49.798"W	11043.62	149.138	2.49	-0.07	2.49	
17910.00	89.110	164.880	6181.73	10896.26	-9571.14	5691.39	1669473.71	14324302.73	39°26'45.226"N	80°53'49.465"W	11135.47	149.263	1.94	0.14	1.94	
18004.00	89.140	164.750	6183.16	10990.05	-9661.85	5716.01	1669498.32	14324212.06	39°26'44.330"N	80°53'49.152"W	11226.04	149.391	0.14	0.03	-0.14	
18099.00	89.110	164.090	6184.61	11084.89	-9753.34	5741.52	1669523.82	14324120.60	39°26'43.425"N	80°53'48.828"W	11317.81	149.516	0.70	-0.03	-0.69	
18194.00	90.370	165.590	6185.04	11179.69	-9845.03	5766.36	1669548.65	14324028.95	39°26'42.519"N	80°53'48.513"W	11409.45	149.642	2.06	1.33	1.58	
18288.00	89.080	164.950	6185.49	11273.44	-9935.94	5790.26	1669572.55	14323938.08	39°26'41.620"N	80°53'48.210"W	11500.00	149.768	1.53	-1.37	-0.68	

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# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

WELLPATH DATA (228 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
18385.00	88.770	165.560	6187.31	11370.18	-10029.73	5814.95	1669597.22	14323844.33	39°26'40.693"N	80°53'47.896"W	11593.49	149.896	0.71	-0.32	0.63	
18477.00	89.080	164.040	6189.04	11461.97	-10118.49	5839.06	1669621.33	14323755.60	39°26'39.815"N	80°53'47.590"W	11682.40	150.012	1.69	0.34	-1.65	
18572.00	88.860	161.580	6190.75	11556.91	-10209.23	5867.13	1669649.38	14323664.90	39°26'38.918"N	80°53'47.234"W	11775.04	150.114	2.60	-0.23	-2.59	
18666.00	89.850	162.160	6191.81	11650.90	-10298.55	5896.38	1669678.62	14323575.61	39°26'38.035"N	80°53'46.862"W	11867.08	150.207	1.22	1.05	0.62	
18761.00	89.630	161.230	6192.24	11745.89	-10388.74	5926.22	1669708.44	14323485.46	39°26'37.143"N	80°53'46.483"W	11960.19	150.298	1.01	-0.23	-0.98	
18855.00	89.600	162.590	6192.87	11839.88	-10478.09	5955.41	1669737.62	14323396.14	39°26'36.260"N	80°53'46.113"W	12052.27	150.388	1.45	-0.03	1.45	
18950.00	89.600	158.860	6193.53	11934.85	-10567.75	5986.76	1669768.96	14323306.52	39°26'35.373"N	80°53'45.714"W	12145.72	150.468	3.93	0.00	-3.93	
19044.00	89.600	157.850	6194.19	12028.74	-10655.12	6021.43	1669803.62	14323219.19	39°26'34.509"N	80°53'45.274"W	12238.84	150.528	1.07	0.00	-1.07	
19139.00	89.540	158.170	6194.90	12123.59	-10743.20	6057.00	1669839.17	14323131.14	39°26'33.638"N	80°53'44.822"W	12333.03	150.586	0.34	-0.06	0.34	
19233.00	89.540	157.430	6195.66	12217.43	-10830.23	6092.52	1669874.68	14323044.14	39°26'32.778"N	80°53'44.370"W	12426.29	150.640	0.79	0.00	-0.79	
19328.00	89.690	156.970	6196.29	12312.20	-10917.81	6129.33	1669911.47	14322956.61	39°26'31.912"N	80°53'43.902"W	12520.67	150.690	0.51	0.16	-0.48	
19422.00	89.600	157.340	6196.88	12405.97	-11004.43	6165.82	1669947.95	14322870.02	39°26'31.055"N	80°53'43.438"W	12614.07	150.738	0.41	-0.10	0.39	
19517.00	90.090	159.110	6197.13	12500.84	-11092.65	6201.06	1669983.18	14322781.83	39°26'30.183"N	80°53'42.990"W	12708.27	150.794	1.93	0.52	1.86	
19611.00	89.720	160.670	6197.29	12594.81	-11180.91	6233.38	1670015.48	14322693.60	39°26'29.310"N	80°53'42.580"W	12801.09	150.860	1.71	-0.39	1.66	
19705.00	90.090	163.360	6197.45	12688.79	-11270.31	6262.40	1670044.49	14322604.24	39°26'28.426"N	80°53'42.211"W	12893.32	150.941	2.89	0.39	2.86	
19800.00	90.120	164.360	6197.27	12783.68	-11361.57	6288.81	1670070.89	14322513.02	39°26'27.524"N	80°53'41.876"W	12985.93	151.035	1.05	0.03	1.05	
19820.00	90.180	164.130	6197.22	12803.66	-11380.82	6294.24	1670076.32	14322493.78	39°26'27.334"N	80°53'41.807"W	13005.40	151.055	1.19	0.30	-1.15	
19845.00	90.180	164.130	6197.14	12828.62	-11404.86	6301.08	1670083.15	14322469.74	39°26'27.096"N	80°53'41.720"W	13029.75	151.080	0.00	0.00	0.00	Projected MD at TD: 19845'

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# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

## HOLE & CASING SECTIONS - Ref Wellbore: Daniels Unit 3H AWB Ref Wellpath: Daniels Unit 3H AWP Proj: 19845'

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	-0.07	0.14
17.5in Open Hole	95.00	411.90	316.90	95.00	411.89	-0.07	0.14	-0.63	-0.29
13.375in Casing Surface	30.00	411.90	381.90	30.00	411.89	0.00	0.00	-0.63	-0.29
12.25in Open Hole	411.90	2678.50	2266.60	411.89	2576.24	-0.63	-0.29	387.23	495.05
9.625in Casing Intermediate	30.00	2678.50	2648.50	30.00	2576.24	0.00	0.00	387.23	495.05
8.75in Open Hole	2678.50	6238.00	3559.50	2576.24	5706.51	387.23	495.05	1265.66	1856.77
8.5in Open Hole	6238.00	19845.00	13607.00	5706.51	6197.14	1265.66	1856.77	-11404.86	6301.08
5.5in Casing Production	30.00	19845.00	19815.00	30.00	6197.14	0.00	0.00	-11404.86	6301.08

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Daniels Unit 3H - POE - Rev-2	6065.00	904.01	2090.69	1665874.46	14334773.68	39°28'28.795"N	80°54'35.229"W	point
Daniels Unit 3H - BHL - Rev-2	6103.00	-11532.58	6334.94	1670117.00	14322342.08	39°26'25.833"N	80°53'41.291"W	point
Daniels Unit 3H - BHL - Rev-3	6103.00	-11374.71	6281.06	1670063.15	14322499.89	39°26'27.394"N	80°53'41.975"W	point
Daniels Unit 3H - LP - Rev-2	6103.00	690.64	2163.51	1665947.24	14334560.39	39°28'26.685"N	80°54'34.303"W	point

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# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

WELLPATH COMPOSITION - Ref Wellbore: Daniels Unit 3H AWB Ref Wellpath: Daniels Unit 3H AWP Proj: 19845'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	270.00	Gyrodatta standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2">(115'-270')	Daniels Unit 3H AWB
270.00	2583.00	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4">(270')(417'-2583')	Daniels Unit 3H AWB
2583.00	6166.00	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4">(2583')(2692'-6166')	Daniels Unit 3H AWB
6166.00	19820.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2">(6166')(6231'-19820')	Daniels Unit 3H AWB
19820.00	19845.00	Blind Drilling (std)	Projection to bit	Daniels Unit 3H AWB

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# Actual Wellpath Report

Daniels Unit 3H AWP Proj: 19845'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Daniels Unit 3H
Field	Tyler	Wellbore	Daniels Unit 3H AWB
Facility	Ferrell South Pad		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-095-02568-0000 BHI Job #: 110067479A Rig: H&amp;P 519 Duration: 10/14/2019-10/17/2019 Gyrodatta MS Gyro &lt;17-1/2"&gt;(115'-270') WFT EM &lt;12-1/4"&gt;(270')(417'-2583') WFT EM &lt;8-3/4"&gt;(2583')(2692'-6166') BH AT Curve &lt;8-1/2"&gt;(6166')(6231-19820') Middlesex: 6558' MD Burkett: 6734' MD Tully: 6786' MD Marcellus POE: 6870' MD Projected MD at TD: 19845'</p>

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