



# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H 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	11/7/2019 at 12:20:17 PM
Convergence at slot	0.05° East	Database/Source file	WA_MPL_EasternUS_Defn/Daniels_Unit_2H_AWP_Proj_19508_.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	15.18	-0.01	1663784.62	14333855.87	39°28'19.740"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 #05)	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	161.15°

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Field	Tyler	Wellbore	Daniels Unit 2H AWP
Facility	Ferrell South Pad		

## WELLPATH DATA (225 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	224.920	0.00	0.00	0.00	0.00	1663784.62	14333855.87	39°28'19.740"N	80°55'01.900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	224.920	30.00	0.00	0.00	0.00	1663784.62	14333855.87	39°28'19.740"N	80°55'01.900"W	0.00	0.000	0.00	0.00	0.00	
40.00	0.380	224.920	40.00	0.01	-0.02	-0.02	1663784.59	14333855.85	39°28'19.740"N	80°55'01.900"W	0.03	224.920	3.80	3.80	-1350.80	Gyrodata MS Gyro <17-1/2">(40'-299')
64.60	0.450	225.300	64.60	0.09	-0.15	-0.15	1663784.47	14333855.72	39°28'19.739"N	80°55'01.902"W	0.21	225.094	0.28	0.28	1.54	
89.70	0.480	229.430	89.70	0.17	-0.29	-0.30	1663784.32	14333855.58	39°28'19.737"N	80°55'01.904"W	0.41	226.241	0.18	0.12	16.45	
114.90	0.560	231.980	114.90	0.25	-0.43	-0.48	1663784.14	14333855.44	39°28'19.736"N	80°55'01.906"W	0.64	227.862	0.33	0.32	10.12	
140.00	0.540	230.720	140.00	0.34	-0.58	-0.66	1663783.95	14333855.29	39°28'19.734"N	80°55'01.908"W	0.88	228.815	0.09	-0.08	-5.02	
164.70	0.520	233.970	164.70	0.41	-0.72	-0.85	1663783.77	14333855.15	39°28'19.733"N	80°55'01.911"W	1.11	229.534	0.15	-0.08	13.16	
189.70	0.500	243.340	189.69	0.46	-0.84	-1.03	1663783.58	14333855.03	39°28'19.732"N	80°55'01.913"W	1.33	231.032	0.34	-0.08	37.48	
214.70	0.460	245.190	214.69	0.48	-0.93	-1.22	1663783.39	14333854.94	39°28'19.731"N	80°55'01.916"W	1.54	232.816	0.17	-0.16	7.40	
239.70	0.410	247.610	239.69	0.50	-1.00	-1.40	1663783.22	14333854.87	39°28'19.730"N	80°55'01.918"W	1.72	234.292	0.21	-0.20	9.68	
265.40	0.510	252.750	265.39	0.50	-1.07	-1.59	1663783.03	14333854.80	39°28'19.729"N	80°55'01.920"W	1.92	236.006	0.42	0.39	20.00	
289.50	0.660	266.000	289.49	0.46	-1.11	-1.83	1663782.79	14333854.76	39°28'19.729"N	80°55'01.923"W	2.14	238.686	0.83	0.62	54.98	
299.00	0.770	272.320	298.99	0.43	-1.12	-1.95	1663782.67	14333854.75	39°28'19.729"N	80°55'01.925"W	2.25	240.227	1.42	1.16	66.53	
416.00	0.930	247.410	415.98	0.20	-1.45	-3.61	1663781.01	14333854.42	39°28'19.726"N	80°55'01.946"W	3.89	248.147	0.34	0.14	-21.29	Gyrodata MS Gyro <12-1/4">(299')(416'-600')
506.00	1.280	244.330	505.96	0.37	-2.16	-5.19	1663779.43	14333853.71	39°28'19.719"N	80°55'01.966"W	5.63	247.370	0.39	0.39	-3.42	
600.00	0.730	68.110	599.95	0.46	-2.40	-5.58	1663779.04	14333853.47	39°28'19.716"N	80°55'01.971"W	6.08	246.772	2.14	-0.59	-187.47	
714.00	4.370	50.230	713.82	-1.13	0.65	-1.57	1663783.05	14333856.52	39°28'19.746"N	80°55'01.920"W	1.70	292.596	3.23	3.19	-15.68	WFT EM <12-1/4">(600')(714'-2580')
807.00	7.370	41.810	806.33	-5.31	7.37	5.13	1663789.75	14333863.24	39°28'19.813"N	80°55'01.834"W	8.98	34.853	3.35	3.23	-9.05	
904.00	8.660	37.450	902.38	-12.42	17.80	13.72	1663798.33	14333873.67	39°28'19.916"N	80°55'01.725"W	22.48	37.619	1.47	1.33	-4.49	
998.00	9.500	38.090	995.20	-20.57	29.53	22.81	1663807.42	14333885.39	39°28'20.032"N	80°55'01.609"W	37.31	37.685	0.90	0.89	0.68	
1093.00	11.500	44.180	1088.61	-29.15	42.49	34.25	1663818.85	14333898.34	39°28'20.160"N	80°55'01.463"W	54.57	38.868	2.40	2.11	6.41	
1187.00	13.700	49.300	1180.34	-37.54	56.47	49.22	1663833.82	14333912.32	39°28'20.298"N	80°55'01.272"W	74.91	41.074	2.62	2.34	5.45	
1282.00	15.610	45.020	1272.25	-47.36	72.84	66.79	1663851.38	14333928.68	39°28'20.459"N	80°55'01.047"W	98.83	42.517	2.31	2.01	-4.51	
1376.00	17.670	43.530	1362.31	-59.54	92.13	85.56	1663870.15	14333947.96	39°28'20.650"N	80°55'00.808"W	125.73	42.884	2.24	2.19	-1.59	
1471.00	18.730	42.440	1452.55	-73.55	113.84	105.79	1663890.36	14333969.66	39°28'20.864"N	80°55'00.550"W	155.40	42.900	1.17	1.12	-1.15	
1565.00	19.720	38.830	1541.31	-89.28	137.33	125.92	1663910.48	14333993.15	39°28'21.096"N	80°55'00.293"W	196.32	42.517	1.65	1.05	-3.84	
1660.00	22.090	40.810	1630.05	-106.88	163.34	147.64	1663932.20	14334019.15	39°28'21.353"N	80°55'00.015"W	220.18	42.110	2.60	2.49	2.08	
1754.00	22.790	45.490	1716.94	-123.69	189.49	172.18	1663956.73	14334045.28	39°28'21.611"N	80°54'59.702"W	256.03	42.261	2.04	0.74	4.98	
1849.00	22.060	45.800	1804.76	-139.30	214.82	198.09	1663982.83	14334070.61	39°28'21.861"N	80°54'59.371"W	292.21	42.680	0.78	-0.77	0.33	

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

## WELLPATH DATA (225 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
1943.00	19.000	41.620	1892.78	-154.40	238.57	220.92	1664005.45	14334094.35	39°28'22.096"N	80°54'59.080"W	325.15	42.799	3.61	-3.26	-4.45	
2038.00	17.860	35.550	1982.92	-170.51	261.99	239.66	1664024.18	14334117.76	39°28'22.327"N	80°54'58.841"W	355.07	42.451	2.35	-1.20	-6.39	
2133.00	18.300	33.890	2073.23	-188.02	286.22	256.45	1664040.96	14334141.98	39°28'22.567"N	80°54'58.626"W	384.30	41.859	0.71	0.46	-1.75	
2227.00	17.360	34.420	2162.71	-205.34	310.04	272.60	1664057.11	14334165.79	39°28'22.802"N	80°54'58.420"W	412.84	41.323	1.01	-1.00	0.56	
2322.00	16.420	33.390	2253.61	-222.04	332.95	288.00	1664072.51	14334188.68	39°28'23.028"N	80°54'58.224"W	440.23	40.860	1.04	-0.99	-1.08	
2416.00	15.580	35.040	2343.97	-237.61	354.37	302.56	1664087.06	14334210.10	39°28'23.240"N	80°54'58.038"W	465.97	40.491	1.02	-0.89	1.76	
2511.00	16.460	38.980	2435.28	-252.30	375.28	318.36	1664102.84	14334231.00	39°28'23.446"N	80°54'57.836"W	492.13	40.308	1.47	0.93	4.15	
2580.00	16.500	41.310	2501.45	-262.38	390.24	330.97	1664115.46	14334245.96	39°28'23.594"N	80°54'57.675"W	511.70	40.302	0.96	0.06	3.38	
2716.00	16.940	44.790	2631.70	-280.79	418.81	357.68	1664142.16	14334274.51	39°28'23.876"N	80°54'57.334"W	550.76	40.499	0.80	0.32	2.56	WFT EM <8-3/4">(2580')(2716'-5877')
2811.00	17.910	47.190	2722.34	-292.86	438.56	378.15	1664162.61	14334294.26	39°28'24.071"N	80°54'57.073"W	579.08	40.769	1.27	1.02	2.53	
2905.00	19.270	47.270	2811.44	-305.01	458.91	400.15	1664184.60	14334314.60	39°28'24.272"N	80°54'56.792"W	608.86	41.087	1.45	1.45	0.09	
3003.00	19.920	44.610	2903.76	-319.02	481.77	423.75	1664208.20	14334337.45	39°28'24.498"N	80°54'56.491"W	641.61	41.334	1.13	0.66	-2.71	
3097.00	20.040	45.690	2992.11	-333.10	504.42	446.52	1664230.96	14334360.09	39°28'24.721"N	80°54'56.200"W	673.66	41.516	0.41	0.13	1.15	
3192.00	19.130	43.290	3081.61	-347.37	527.12	468.84	1664253.27	14334382.78	39°28'24.945"N	80°54'55.915"W	705.46	41.651	1.28	-0.96	-2.53	
3286.00	19.710	42.060	3170.26	-362.28	550.10	490.02	1664274.44	14334405.75	39°28'25.172"N	80°54'55.645"W	736.70	41.694	0.75	0.62	-1.31	
3381.00	19.770	42.780	3259.68	-377.70	573.79	511.67	1664296.08	14334429.43	39°28'25.406"N	80°54'55.369"W	768.79	41.725	0.26	0.06	0.76	
3475.00	19.440	44.130	3348.23	-392.36	596.68	533.36	1664317.76	14334452.31	39°28'25.632"N	80°54'55.092"W	800.31	41.793	0.60	-0.35	1.44	
3570.00	19.330	43.480	3437.84	-406.84	619.44	555.18	1664339.58	14334475.06	39°28'25.857"N	80°54'54.813"W	831.83	41.869	0.25	-0.12	-0.68	
3665.00	19.550	42.180	3527.43	-421.84	642.63	576.68	1664361.06	14334498.24	39°28'26.086"N	80°54'54.539"W	863.44	41.904	0.51	0.23	-1.37	
3759.00	19.950	42.050	3615.90	-437.26	666.19	597.98	1664382.35	14334521.79	39°28'26.319"N	80°54'54.267"W	895.20	41.911	0.43	0.43	-0.14	
3854.00	19.100	45.790	3705.44	-451.80	689.06	619.97	1664404.34	14334544.66	39°28'26.545"N	80°54'53.986"W	926.92	41.979	1.59	-0.89	3.94	
3948.00	19.320	45.460	3794.21	-465.13	710.69	642.08	1664426.44	14334566.28	39°28'26.758"N	80°54'53.704"W	957.79	42.096	0.26	0.23	-0.35	
4043.00	18.780	43.060	3884.00	-479.14	732.89	663.72	1664448.07	14334588.47	39°28'26.977"N	80°54'53.428"W	988.77	42.165	1.00	-0.57	-2.53	
4137.00	18.320	43.670	3973.12	-493.08	754.63	684.26	1664468.60	14334610.20	39°28'27.192"N	80°54'53.166"W	1018.66	42.200	0.53	-0.49	0.65	
4232.00	18.180	43.920	4063.34	-506.75	776.11	704.84	1664489.18	14334631.66	39°28'27.404"N	80°54'52.903"W	1048.40	42.245	0.17	-0.15	0.26	
4327.00	18.360	42.660	4153.55	-520.67	797.78	725.26	1664509.59	14334653.33	39°28'27.618"N	80°54'52.642"W	1078.18	42.274	0.46	0.19	-1.33	
4422.00	18.970	41.910	4243.56	-535.35	820.28	745.72	1664530.04	14334675.82	39°28'27.840"N	80°54'52.381"W	1108.58	42.274	0.69	0.64	-0.79	
4520.00	18.550	42.160	4336.35	-550.69	843.69	766.82	1664551.13	14334699.22	39°28'28.071"N	80°54'52.112"W	1140.10	42.267	0.44	-0.43	0.26	
4615.00	18.840	42.220	4426.34	-565.43	866.25	787.27	1664571.57	14334721.77	39°28'28.294"N	80°54'51.851"W	1170.55	42.265	0.31	0.31	0.06	
4710.00	19.000	41.500	4516.20	-580.50	889.19	807.82	1664592.12	14334744.70	39°28'28.521"N	80°54'51.588"W	1201.35	42.255	0.30	0.17	-0.76	

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4804.00	18.500	42.150	4605.22	-595.30	911.71	827.97	1664612.26	14334767.21	39°28'28.743"N	80°54'51.331"W	1231.56	42.244	0.58	-0.53	0.69	
4899.00	19.390	43.140	4695.07	-610.01	934.39	848.87	1664633.15	14334789.88	39°28'28.967"N	80°54'51.064"W	1262.40	42.254	1.00	0.94	1.04	
4993.00	20.210	42.970	4783.51	-625.01	957.66	870.61	1664654.88	14334813.14	39°28'29.197"N	80°54'50.787"W	1294.24	42.274	0.87	0.87	-0.18	
5088.00	19.720	39.770	4872.80	-641.10	981.98	892.05	1664676.31	14334837.46	39°28'29.437"N	80°54'50.513"W	1326.66	42.252	1.26	-0.52	-3.37	
5182.00	19.550	41.080	4961.34	-657.24	1006.03	912.53	1664696.78	14334861.49	39°28'29.675"N	80°54'50.252"W	1358.23	42.210	0.50	-0.18	1.39	
5277.00	19.540	42.510	5050.86	-672.82	1029.72	933.71	1664717.95	14334885.18	39°28'29.908"N	80°54'49.981"W	1390.01	42.200	0.50	-0.01	1.51	
5372.00	18.890	41.880	5140.57	-687.96	1052.88	954.71	1664738.94	14334908.33	39°28'30.137"N	80°54'49.713"W	1421.28	42.200	0.72	-0.68	-0.66	
5466.00	17.980	42.540	5229.75	-702.34	1074.90	974.68	1664758.90	14334930.34	39°28'30.355"N	80°54'49.458"W	1451.00	42.200	0.99	-0.97	0.70	
5498.00	16.810	47.390	5260.29	-706.57	1081.67	981.42	1664765.64	14334937.11	39°28'30.422"N	80°54'49.372"W	1460.55	42.218	5.82	-3.66	15.16	
5561.00	14.710	61.040	5320.93	-711.65	1091.72	995.13	1664779.35	14334947.15	39°28'30.521"N	80°54'49.197"W	1477.20	42.350	6.74	-3.33	21.67	
5624.00	14.320	78.480	5381.95	-712.06	1097.15	1009.77	1664793.98	14334952.58	39°28'30.574"N	80°54'49.010"W	1491.10	42.625	6.94	-0.62	27.68	
5687.00	15.040	94.860	5442.92	-707.78	1098.01	1025.56	1664809.76	14334953.44	39°28'30.583"N	80°54'48.809"W	1502.46	43.046	6.66	1.14	26.00	
5750.00	18.500	114.450	5503.28	-697.62	1093.18	1042.82	1664827.02	14334948.61	39°28'30.535"N	80°54'48.589"W	1510.80	43.649	10.45	5.49	31.10	
5814.00	22.510	126.300	5563.24	-680.59	1081.71	1061.95	1664846.14	14334937.15	39°28'30.421"N	80°54'48.345"W	1515.86	44.472	8.99	6.27	18.52	
5877.00	25.540	136.220	5620.80	-658.37	1064.76	1081.08	1664865.26	14334920.20	39°28'30.253"N	80°54'48.101"W	1517.38	45.436	8.00	4.81	15.75	
5929.00	28.290	140.510	5667.17	-636.66	1047.15	1096.68	1664880.85	14334902.60	39°28'30.079"N	80°54'47.903"W	1516.32	46.323	6.47	5.29	8.25	BH AT Curve <8-1/2">(5877')(5929'-19483')
6028.00	33.660	146.040	5752.04	-588.18	1006.25	1126.95	1664911.11	14334861.72	39°28'29.675"N	80°54'47.517"W	1510.81	48.238	6.13	5.42	5.59	
6123.00	40.090	151.090	5828.01	-532.57	957.57	1156.48	1664940.63	14334813.06	39°28'29.193"N	80°54'47.141"W	1501.47	50.375	7.48	6.77	5.32	
6218.00	47.400	150.350	5896.59	-468.02	900.33	1188.61	1664972.75	14334755.84	39°28'28.627"N	80°54'46.732"W	1491.11	52.857	7.71	7.69	-0.78	
6258.00†	51.003	151.314	5922.72	-438.23	873.89	1203.36	1664987.49	14334729.41	39°28'28.366"N	80°54'46.544"W	1487.20	54.012	9.19	9.01	2.41	Middlesex: 6258' MD
6314.00	56.060	152.510	5956.00	-393.79	834.17	1224.54	1665008.67	14334689.71	39°28'27.973"N	80°54'46.275"W	1481.67	55.737	9.19	9.03	2.14	
6409.00	62.580	155.360	6004.45	-312.78	760.80	1260.36	1665044.47	14334616.36	39°28'27.248"N	80°54'45.819"W	1472.18	58.883	7.33	6.66	3.00	
6426.00†	63.921	156.132	6012.10	-297.67	746.96	1266.59	1665050.70	14334602.53	39°28'27.111"N	80°54'45.740"W	1470.44	59.471	8.87	7.89	4.54	Burkett: 6426' MD
6476.00†	67.887	158.306	6032.52	-252.15	704.88	1284.25	1665068.35	14334560.47	39°28'26.695"N	80°54'45.515"W	1464.97	61.239	8.87	7.93	4.35	Tully: 6476' MD
6504.00	70.120	159.470	6042.55	-226.03	680.50	1293.66	1665077.76	14334536.09	39°28'26.454"N	80°54'45.395"W	1461.72	62.255	8.87	7.98	4.16	
6556.00†	73.191	162.333	6058.92	-176.68	633.86	1309.79	1665093.89	14334489.48	39°28'25.992"N	80°54'45.190"W	1455.11	64.176	7.89	5.91	5.51	Marcellus POE: 6556' MD
6599.00	75.760	164.630	6070.43	-135.29	594.15	1321.57	1665105.65	14334449.78	39°28'25.600"N	80°54'45.040"W	1448.98	65.792	7.89	5.97	5.34	
6692.00	82.070	167.020	6088.30	-44.39	505.71	1343.88	1665127.96	14334361.37	39°28'24.726"N	80°54'44.757"W	1435.88	69.379	7.24	6.78	2.57	
6786.00	88.030	167.030	6096.41	48.73	414.49	1364.90	1665148.97	14334270.19	39°28'23.824"N	80°54'44.490"W	1426.45	73.108	6.34	6.34	0.01	
6880.00	90.460	164.210	6097.65	142.42	323.46	1388.24	1665172.30	14334179.20	39°28'22.924"N	80°54'44.194"W	1425.43	76.884	3.96	2.59	-3.00	

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# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

## WELLPATH DATA (225 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
6974.00	90.000	159.420	6097.27	236.38	234.18	1417.57	1665201.62	14334089.96	39°28'22.041"N	80°54'43.821"W	1436.78	80.620	5.12	-0.49	-5.10	
7067.00	90.060	160.330	6097.22	329.36	146.86	1449.57	1665233.60	14334002.67	39°28'21.178"N	80°54'43.414"W	1456.99	84.215	0.98	0.06	0.98	
7161.00	90.950	158.560	6096.39	423.31	58.85	1482.57	1665266.59	14333914.70	39°28'20.308"N	80°54'42.994"W	1483.73	87.727	2.11	0.95	-1.88	
7255.00	90.180	154.030	6095.46	516.94	-27.19	1520.35	1665304.35	14333828.69	39°28'19.457"N	80°54'42.513"W	1520.59	91.025	4.89	-0.82	-4.82	
7349.00	89.660	153.020	6095.59	610.41	-111.33	1562.25	1665346.24	14333744.59	39°28'18.625"N	80°54'41.980"W	1566.21	94.076	1.21	-0.55	-1.07	
7443.00	89.630	155.950	6096.18	703.46	-196.15	1602.74	1665386.71	14333659.80	39°28'17.786"N	80°54'41.465"W	1614.69	96.977	3.12	-0.03	3.12	
7536.00	89.720	157.730	6096.70	796.19	-281.65	1639.31	1665423.27	14333574.33	39°28'16.941"N	80°54'41.000"W	1663.33	99.749	1.92	0.10	1.91	
7630.00	89.750	158.650	6097.14	890.07	-368.92	1674.23	1665458.18	14333487.10	39°28'16.078"N	80°54'40.555"W	1714.40	102.427	0.98	0.03	0.98	
7723.00	89.850	158.680	6097.46	982.98	-455.55	1708.07	1665492.00	14333400.51	39°28'15.222"N	80°54'40.125"W	1767.77	104.933	0.11	0.11	0.03	
7817.00	89.660	160.570	6097.87	1076.94	-543.66	1740.79	1665524.71	14333312.43	39°28'14.350"N	80°54'39.709"W	1823.71	107.344	2.02	-0.20	2.01	
7911.00	89.480	162.950	6098.57	1170.93	-632.93	1770.21	1665554.12	14333223.20	39°28'13.468"N	80°54'39.335"W	1879.96	109.674	2.54	-0.19	2.53	
8005.00	89.820	165.080	6099.15	1264.80	-723.29	1796.10	1665579.99	14333132.87	39°28'12.575"N	80°54'39.006"W	1936.26	111.935	2.29	0.36	2.27	
8099.00	89.780	165.190	6099.47	1358.57	-814.14	1820.21	1665604.10	14333042.06	39°28'11.676"N	80°54'38.700"W	1993.99	114.098	0.12	-0.04	0.12	
8192.00	90.120	165.040	6099.55	1451.35	-904.02	1844.10	1665627.98	14332952.21	39°28'10.788"N	80°54'38.396"W	2053.77	116.115	0.40	0.37	-0.16	
8286.00	89.880	166.000	6099.55	1545.08	-995.03	1867.61	1665651.47	14332861.24	39°28'09.888"N	80°54'38.098"W	2116.14	118.048	1.05	-0.26	1.02	
8380.00	91.170	165.430	6098.69	1638.77	-1086.12	1890.80	1665674.66	14332770.19	39°28'08.988"N	80°54'37.803"W	2180.55	119.874	1.50	1.37	-0.61	
8473.00	90.710	163.680	6097.17	1731.59	-1175.75	1915.56	1665699.41	14332680.60	39°28'08.102"N	80°54'37.488"W	2247.61	121.541	1.95	-0.49	-1.88	
8567.00	89.940	162.100	6096.63	1825.54	-1265.58	1943.22	1665727.05	14332590.80	39°28'07.213"N	80°54'37.137"W	2319.00	123.075	1.87	-0.82	-1.68	
8661.00	89.380	161.060	6097.19	1919.54	-1354.76	1972.92	1665756.74	14332501.65	39°28'06.332"N	80°54'36.759"W	2393.28	124.477	1.26	-0.60	-1.11	
8754.00	89.660	160.950	6097.97	2012.53	-1442.69	2003.19	1665787.00	14332413.75	39°28'05.462"N	80°54'36.374"W	2468.63	125.761	0.32	0.30	-0.12	
8848.00	89.510	160.460	6098.65	2106.53	-1531.41	2034.25	1665818.05	14332325.07	39°28'04.585"N	80°54'35.980"W	2546.25	126.973	0.55	-0.16	-0.52	
8941.00	88.980	158.120	6099.88	2199.46	-1618.39	2067.13	1665850.92	14332238.13	39°28'03.725"N	80°54'35.561"W	2625.30	128.058	2.58	-0.57	-2.52	
9035.00	88.770	157.670	6101.72	2293.29	-1705.46	2102.49	1665886.27	14332151.09	39°28'02.864"N	80°54'35.112"W	2707.23	129.048	0.53	-0.22	-0.48	
9128.00	89.320	159.580	6103.27	2386.18	-1792.05	2136.38	1665920.14	14332064.54	39°28'02.008"N	80°54'34.680"W	2788.47	129.991	2.14	0.59	2.05	
9221.00	89.350	160.870	6104.35	2479.16	-1879.56	2167.84	1665951.59	14331977.07	39°28'01.143"N	80°54'34.280"W	2869.20	130.926	1.39	0.03	1.39	
9315.00	89.350	161.750	6105.42	2573.16	-1968.59	2197.96	1665981.70	14331888.07	39°28'00.263"N	80°54'33.898"W	2950.66	131.849	0.94	0.00	0.94	
9409.00	89.450	161.670	6106.40	2667.15	-2057.84	2227.46	1666011.19	14331798.86	39°27'59.380"N	80°54'33.523"W	3032.54	132.733	0.14	0.11	-0.09	
9504.00	89.290	162.450	6107.45	2762.13	-2148.21	2256.72	1666040.43	14331708.52	39°27'58.487"N	80°54'33.151"W	3115.71	133.589	0.84	-0.17	0.82	
9597.00	89.320	162.390	6108.58	2855.10	-2236.86	2284.81	1666068.51	14331619.90	39°27'57.610"N	80°54'32.794"W	3197.49	134.392	0.07	0.03	-0.06	
9692.00	89.350	161.130	6109.68	2950.09	-2327.08	2314.54	1666098.23	14331529.72	39°27'56.718"N	80°54'32.416"W	3282.14	135.155	1.33	0.03	-1.33	

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# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

WELLPATH DATA (225 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
9786.00	89.320	160.650	6110.77	3044.08	-2415.90	2345.31	1666128.99	14331440.94	39°27'55.840"N	80°54'32.025"W	3367.05	135.849	0.51	-0.03	-0.51	
9880.00	89.380	159.030	6111.84	3138.04	-2504.13	2377.71	1666161.37	14331352.75	39°27'54.968"N	80°54'31.613"W	3453.14	136.483	1.72	0.06	-1.72	
9974.00	89.320	159.130	6112.90	3231.98	-2591.93	2411.27	1666194.92	14331264.98	39°27'54.100"N	80°54'31.186"W	3540.10	137.068	0.12	-0.06	0.11	
10068.00	89.290	160.750	6114.04	3325.95	-2680.21	2443.51	1666227.14	14331176.73	39°27'53.227"N	80°54'30.776"W	3626.88	137.645	1.72	-0.03	1.72	
10162.00	89.290	161.140	6115.21	3419.94	-2769.06	2474.19	1666257.82	14331087.92	39°27'52.349"N	80°54'30.386"W	3713.40	138.219	0.41	0.00	0.41	
10257.00	89.320	160.990	6116.36	3514.93	-2858.91	2505.02	1666288.63	14330998.11	39°27'51.460"N	80°54'29.994"W	3801.12	138.775	0.16	0.03	-0.16	
10353.00	89.380	161.820	6117.45	3610.92	-2949.89	2535.63	1666319.23	14330907.16	39°27'50.561"N	80°54'29.605"W	3889.89	139.319	0.87	0.06	0.86	
10446.00	89.350	161.730	6118.48	3703.91	-3038.22	2564.71	1666348.30	14330818.87	39°27'49.687"N	80°54'29.235"W	3976.00	139.831	0.10	-0.03	-0.10	
10540.00	89.420	161.390	6119.49	3797.90	-3127.39	2594.44	1666378.02	14330729.74	39°27'48.806"N	80°54'28.857"W	4063.46	140.321	0.37	0.07	-0.36	
10634.00	89.320	161.120	6120.52	3891.90	-3216.40	2624.65	1666408.21	14330640.76	39°27'47.926"N	80°54'28.473"W	4151.39	140.785	0.31	-0.11	-0.29	
10728.00	89.320	161.130	6121.64	3985.89	-3305.34	2655.06	1666438.61	14330551.86	39°27'47.047"N	80°54'28.087"W	4239.64	141.226	0.01	0.00	0.01	
10823.00	90.150	162.600	6122.08	4080.88	-3395.61	2684.63	1666468.17	14330461.62	39°27'46.154"N	80°54'27.711"W	4328.67	141.670	1.78	0.87	1.55	
10917.00	89.510	162.760	6122.36	4174.84	-3485.35	2712.61	1666496.14	14330371.92	39°27'45.267"N	80°54'27.355"W	4416.55	142.107	0.70	-0.68	0.17	
11010.00	89.320	163.110	6123.31	4267.79	-3574.25	2739.90	1666523.42	14330283.05	39°27'44.388"N	80°54'27.009"W	4503.59	142.527	0.43	-0.20	0.38	
11104.00	89.290	163.340	6124.45	4361.73	-3664.24	2767.03	1666550.53	14330193.10	39°27'43.498"N	80°54'26.664"W	4591.64	142.942	0.25	-0.03	0.24	
11198.00	89.350	162.140	6125.56	4455.68	-3754.00	2794.92	1666578.41	14330103.37	39°27'42.611"N	80°54'26.309"W	4680.18	143.332	1.28	0.06	-1.28	
11292.00	89.350	160.820	6126.63	4549.67	-3843.07	2824.93	1666608.41	14330014.34	39°27'41.730"N	80°54'25.928"W	4769.64	143.682	1.62	0.00	-1.62	
11385.00	89.320	158.660	6127.71	4642.63	-3930.25	2857.28	1666640.75	14329927.19	39°27'40.868"N	80°54'25.517"W	4859.11	143.983	2.11	-0.03	-2.11	
11479.00	89.420	158.450	6128.74	4736.53	-4017.74	2891.64	1666675.10	14329839.74	39°27'40.003"N	80°54'25.080"W	4950.14	144.257	0.25	0.11	-0.22	
11573.00	89.420	158.050	6129.69	4830.40	-4105.04	2926.47	1666709.92	14329752.47	39°27'39.140"N	80°54'24.637"W	5041.39	144.515	0.43	0.00	-0.43	
11668.00	89.630	158.240	6130.48	4925.27	-4193.21	2961.84	1666745.27	14329664.34	39°27'38.268"N	80°54'24.187"W	5133.76	144.765	0.30	0.22	0.20	
11762.00	89.690	158.190	6131.04	5019.14	-4280.50	2996.72	1666780.14	14329577.09	39°27'37.405"N	80°54'23.743"W	5225.23	145.005	0.08	0.06	-0.05	
11857.00	89.600	158.050	6131.63	5114.01	-4368.65	3032.13	1666815.53	14329488.97	39°27'36.533"N	80°54'23.293"W	5317.79	145.237	0.18	-0.09	-0.15	
11951.00	89.420	159.420	6132.43	5207.92	-4456.25	3066.22	1666849.60	14329401.41	39°27'35.667"N	80°54'22.860"W	5409.24	145.469	1.47	-0.19	1.46	
12046.00	89.720	162.560	6133.14	5302.90	-4546.05	3097.15	1666880.53	14329311.54	39°27'34.779"N	80°54'22.466"W	5500.82	145.734	3.32	0.32	3.31	
12141.00	89.750	163.430	6133.58	5397.85	-4636.90	3124.94	1666908.30	14329220.83	39°27'33.881"N	80°54'22.113"W	5591.61	146.023	0.92	0.03	0.92	
12236.00	89.750	164.370	6134.00	5492.74	-4728.17	3151.28	1666934.63	14329129.60	39°27'32.979"N	80°54'21.779"W	5682.09	146.317	0.99	0.00	0.99	
12330.00	89.720	164.640	6134.43	5586.58	-4818.75	3176.39	1666959.74	14329039.05	39°27'32.083"N	80°54'21.460"W	5771.47	146.608	0.29	-0.03	0.29	
12425.00	89.850	165.460	6134.79	5681.36	-4910.54	3200.90	1666984.23	14328947.31	39°27'31.176"N	80°54'21.149"W	5861.67	146.902	0.87	0.14	0.86	
12520.00	89.630	165.260	6135.22	5776.10	-5002.45	3224.91	1667008.24	14328855.43	39°27'30.267"N	80°54'20.844"W	5951.85	147.191	0.31	-0.23	-0.21	

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# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #05
Area	Tyler County, WV		Well	Daniels Unit 2H
Field	Tyler		Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad			

WELLPATH DATA (225 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
12614.00	89.720	164.130	6135.75	5869.92	-5093.11	3249.72	1667033.04	14328764.80	39°27'29.371"N	80°54'20.529"W	6041.56	147.460	1.21	0.10	-1.20	
12709.00	89.720	163.880	6136.22	5964.80	-5184.43	3275.90	1667059.20	14328673.52	39°27'28.468"N	80°54'20.196"W	6132.69	147.712	0.26	0.00	-0.26	
12803.00	89.850	165.620	6136.57	6058.61	-5275.12	3300.62	1667083.92	14328582.87	39°27'27.572"N	80°54'19.882"W	6222.62	147.966	1.86	0.14	1.85	
12898.00	89.780	166.650	6136.88	6153.25	-5367.35	3323.39	1667106.67	14328490.67	39°27'26.660"N	80°54'19.593"W	6312.95	148.235	1.09	-0.07	1.08	
12993.00	89.750	165.250	6137.27	6247.91	-5459.51	3346.45	1667129.73	14328398.56	39°27'25.749"N	80°54'19.300"W	6403.51	148.493	1.47	-0.03	-1.47	
13088.00	90.030	163.320	6137.45	6342.76	-5550.95	3372.18	1667155.44	14328307.15	39°27'24.845"N	80°54'18.974"W	6494.97	148.721	2.05	0.29	-2.03	
13183.00	89.910	160.780	6137.50	6437.74	-5641.32	3401.46	1667184.71	14328216.82	39°27'23.951"N	80°54'18.601"W	6587.44	148.912	2.68	-0.13	-2.67	
13279.00	90.060	159.850	6137.52	6533.73	-5731.71	3433.79	1667217.03	14328126.46	39°27'23.058"N	80°54'18.190"W	6681.57	149.075	0.98	0.16	-0.97	
13372.00	90.000	159.360	6137.48	6626.70	-5818.88	3466.20	1667249.43	14328039.33	39°27'22.196"N	80°54'17.778"W	6773.03	149.218	0.53	-0.06	-0.53	
13467.00	90.030	159.550	6137.45	6721.66	-5907.83	3499.54	1667282.76	14327950.41	39°27'21.316"N	80°54'17.355"W	6866.54	149.359	0.20	0.03	0.20	
13560.00	89.880	159.270	6137.52	6814.61	-5994.89	3532.25	1667315.45	14327863.38	39°27'20.455"N	80°54'16.939"W	6958.13	149.493	0.34	-0.16	-0.30	
13654.00	89.940	157.480	6137.67	6908.50	-6082.27	3566.89	1667350.07	14327776.04	39°27'19.591"N	80°54'16.498"W	7051.01	149.611	1.91	0.06	-1.90	
13748.00	89.970	156.760	6137.75	7002.27	-6168.88	3603.44	1667386.61	14327689.47	39°27'18.735"N	80°54'16.034"W	7144.21	149.709	0.77	0.03	-0.77	
13841.00	89.690	156.600	6138.02	7094.98	-6254.28	3640.25	1667423.41	14327604.10	39°27'17.891"N	80°54'15.565"W	7236.54	149.799	0.35	-0.30	-0.17	
13935.00	89.690	156.610	6138.53	7188.69	-6340.55	3677.58	1667460.72	14327517.86	39°27'17.038"N	80°54'15.091"W	7329.88	149.886	0.01	0.00	0.01	
14029.00	89.720	158.640	6139.01	7282.50	-6427.47	3713.36	1667496.48	14327430.98	39°27'16.178"N	80°54'14.636"W	7423.03	149.984	2.16	0.03	2.16	
14123.00	89.720	158.760	6139.47	7376.42	-6515.05	3747.50	1667530.61	14327343.44	39°27'15.312"N	80°54'14.202"W	7515.96	150.092	0.13	0.00	0.13	
14217.00	89.750	158.880	6139.91	7470.34	-6602.70	3781.46	1667564.56	14327255.83	39°27'14.446"N	80°54'13.770"W	7608.88	150.200	0.13	0.03	0.13	
14311.00	89.780	159.770	6140.29	7564.29	-6690.64	3814.65	1667597.74	14327167.92	39°27'13.576"N	80°54'13.348"W	7701.70	150.310	0.95	0.03	0.95	
14405.00	89.230	159.890	6141.11	7658.26	-6778.87	3847.06	1667630.13	14327079.72	39°27'12.704"N	80°54'12.936"W	7794.42	150.425	0.60	-0.59	0.13	
14499.00	89.320	160.880	6142.29	7752.24	-6867.41	3878.61	1667661.67	14326991.22	39°27'11.828"N	80°54'12.535"W	7887.01	150.543	1.06	0.10	1.05	
14593.00	89.320	161.440	6143.41	7846.23	-6956.37	3908.97	1667692.01	14326902.30	39°27'10.949"N	80°54'12.149"W	7979.41	150.667	0.60	0.00	0.60	
14687.00	89.140	161.650	6144.67	7940.22	-7045.52	3938.72	1667721.76	14326813.17	39°27'10.067"N	80°54'11.771"W	8071.74	150.793	0.29	-0.19	0.22	
14781.00	89.350	163.520	6145.91	8034.18	-7135.20	3966.85	1667749.88	14326723.53	39°27'09.181"N	80°54'11.414"W	8163.76	150.928	2.00	0.22	1.99	
14875.00	89.350	163.880	6146.98	8128.08	-7225.42	3993.23	1667776.25	14326633.35	39°27'08.289"N	80°54'11.079"W	8255.46	151.072	0.38	0.00	0.38	
14970.00	89.260	163.470	6148.13	8222.98	-7316.58	4019.93	1667802.94	14326542.23	39°27'07.388"N	80°54'10.740"W	8348.19	151.214	0.44	-0.09	-0.43	
15064.00	89.320	163.460	6149.30	8316.90	-7406.69	4046.68	1667829.68	14326452.16	39°27'06.497"N	80°54'10.400"W	8440.06	151.350	0.06	0.06	-0.01	
15158.00	89.320	163.180	6150.41	8410.82	-7496.73	4073.66	1667856.64	14326362.15	39°27'05.607"N	80°54'10.057"W	8532.03	151.481	0.30	0.00	-0.30	
15251.00	89.380	163.290	6151.47	8503.76	-7585.77	4100.48	1667883.46	14326273.15	39°27'04.726"N	80°54'09.716"W	8623.10	151.607	0.13	0.06	0.12	
15345.00	89.750	163.630	6152.18	8597.68	-7675.87	4127.24	1667910.20	14326183.08	39°27'03.835"N	80°54'09.377"W	8715.11	151.734	0.53	0.39	0.36	

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# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

WELLPATH DATA (225 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
15439.00	89.910	161.490	6152.46	8691.64	-7765.55	4155.41	1667938.36	14326093.44	39°27'02.949"N	80°54'09.019"W	8807.45	151.848	2.28	0.17	-2.28	
15532.00	90.220	158.930	6152.35	8784.62	-7853.05	4186.90	1667969.84	14326005.97	39°27'02.084"N	80°54'08.619"W	8899.47	151.935	2.77	0.33	-2.75	
15626.00	90.120	158.910	6152.07	8878.55	-7940.76	4220.71	1668003.63	14325918.30	39°27'01.216"N	80°54'08.189"W	8992.77	152.008	0.11	-0.11	-0.02	
15720.00	89.570	158.210	6152.33	8972.45	-8028.25	4255.07	1668037.98	14325830.84	39°27'00.351"N	80°54'07.752"W	9086.17	152.076	0.95	-0.59	-0.74	
15814.00	89.690	157.760	6152.94	9066.31	-8115.39	4290.30	1668073.20	14325743.73	39°26'59.490"N	80°54'07.304"W	9179.67	152.196	0.50	0.13	-0.48	
15907.00	89.380	158.040	6153.69	9159.16	-8201.56	4325.29	1668108.17	14325657.60	39°26'58.638"N	80°54'06.859"W	9272.20	152.194	0.45	-0.33	0.30	
16001.00	89.420	157.700	6154.68	9253.00	-8288.63	4360.70	1668143.57	14325570.57	39°26'57.777"N	80°54'06.409"W	9365.74	152.251	0.36	0.04	-0.36	
16095.00	89.510	159.260	6155.55	9346.89	-8376.07	4395.18	1668178.03	14325483.16	39°26'56.912"N	80°54'05.971"W	9459.18	152.313	1.66	0.10	1.66	
16189.00	89.480	159.710	6156.38	9440.84	-8464.10	4428.12	1668210.96	14325395.16	39°26'56.042"N	80°54'05.552"W	9552.45	152.383	0.48	-0.03	0.48	
16283.00	89.380	159.410	6157.32	9534.80	-8552.18	4460.94	1668243.77	14325307.12	39°26'55.171"N	80°54'05.135"W	9645.72	152.453	0.34	-0.11	-0.32	
16377.00	89.450	159.470	6158.28	9628.76	-8640.19	4493.95	1668276.77	14325219.15	39°26'54.301"N	80°54'04.715"W	9739.02	152.520	0.10	0.07	0.06	
16470.00	89.290	160.390	6159.30	9721.73	-8727.54	4525.87	1668308.67	14325131.84	39°26'53.437"N	80°54'04.310"W	9831.24	152.590	1.00	-0.17	0.99	
16564.00	88.650	163.380	6160.99	9815.69	-8816.85	4555.09	1668337.88	14325042.56	39°26'52.554"N	80°54'03.938"W	9924.00	152.678	3.25	-0.68	3.18	
16658.00	88.680	165.400	6163.18	9909.51	-8907.36	4580.37	1668363.15	14324952.09	39°26'51.659"N	80°54'03.617"W	10016.03	152.787	2.15	0.03	2.15	
16752.00	89.110	165.800	6164.99	10003.21	-8998.39	4603.74	1668386.51	14324861.10	39°26'50.759"N	80°54'03.321"W	10107.69	152.905	0.62	0.46	0.43	
16846.00	89.140	166.090	6166.43	10096.87	-9089.56	4626.57	1668409.33	14324769.96	39°26'49.858"N	80°54'03.031"W	10199.28	153.024	0.31	0.03	0.31	
16939.00	89.630	166.920	6167.43	10189.46	-9179.99	4648.27	1668431.02	14324679.57	39°26'48.964"N	80°54'02.756"W	10289.73	153.145	1.04	0.53	0.89	
17034.00	90.250	165.550	6167.53	10284.08	-9272.26	4670.87	1668453.62	14324587.34	39°26'48.052"N	80°54'02.469"W	10382.28	153.263	1.58	0.65	-1.44	
17127.00	89.110	163.000	6168.04	10376.93	-9361.76	4696.08	1668478.81	14324497.86	39°26'47.167"N	80°54'02.149"W	10473.57	153.361	3.00	-1.23	-2.74	
17221.00	89.080	161.280	6169.53	10470.90	-9451.22	4724.90	1668507.62	14324408.44	39°26'46.282"N	80°54'01.783"W	10566.47	153.438	1.83	-0.03	-1.83	
17315.00	89.050	159.870	6171.06	10564.89	-9539.86	4756.16	1668538.87	14324319.84	39°26'45.406"N	80°54'01.386"W	10659.73	153.501	1.50	-0.03	-1.50	
17408.00	89.140	159.610	6172.53	10657.85	-9627.09	4788.36	1668571.05	14324232.64	39°26'44.543"N	80°54'00.976"W	10752.17	153.555	0.30	0.10	-0.28	
17502.00	89.170	159.780	6173.92	10751.80	-9715.24	4820.97	1668603.66	14324144.53	39°26'43.672"N	80°54'00.562"W	10845.63	153.608	0.18	0.03	0.18	
17596.00	89.140	159.100	6175.30	10845.75	-9803.24	4853.98	1668636.65	14324056.56	39°26'42.802"N	80°54'00.142"W	10939.14	153.658	0.72	-0.03	-0.72	
17689.00	89.020	158.140	6176.80	10938.65	-9889.83	4887.88	1668670.54	14323970.01	39°26'41.946"N	80°53'59.711"W	11031.78	153.700	1.04	-0.13	-1.03	
17783.00	89.140	158.560	6178.31	11032.52	-9977.19	4922.56	1668705.20	14323882.69	39°26'41.082"N	80°53'59.271"W	11125.46	153.739	0.46	0.13	0.45	
17877.00	88.860	159.290	6179.95	11126.44	-10064.89	4956.35	1668738.98	14323795.02	39°26'40.215"N	80°53'58.841"W	11219.06	153.783	0.83	-0.30	0.78	
17970.00	89.380	159.770	6181.38	11219.39	-10152.00	4988.87	1668771.49	14323707.94	39°26'39.353"N	80°53'58.428"W	11311.59	153.830	0.76	0.56	0.52	
18065.00	89.480	160.630	6182.32	11314.37	-10241.38	5021.05	1668803.65	14323618.60	39°26'38.470"N	80°53'58.019"W	11406.00	153.883	0.91	0.11	0.91	
18159.00	90.090	161.790	6182.67	11408.37	-10330.37	5051.33	1668833.92	14323529.65	39°26'37.590"N	80°53'57.634"W	11499.23	153.942	1.39	0.65	1.23	

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# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

### WELLPATH DATA (225 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
18253.00	90.060	161.800	6182.55	11502.36	-10419.66	5080.69	1668863.27	14323440.39	39°26'36.707"N	80°53'57.261"W	11592.36	154.006	0.03	-0.03	0.01	
18347.00	90.150	161.500	6182.38	11596.36	-10508.88	5110.29	1668892.85	14323351.21	39°26'35.825"N	80°53'56.885"W	11685.53	154.067	0.33	0.10	-0.32	
18442.00	90.030	161.330	6182.23	11691.36	-10598.93	5140.56	1668923.12	14323261.20	39°26'34.934"N	80°53'56.501"W	11779.76	154.126	0.22	-0.13	-0.18	
18537.00	90.030	161.700	6182.18	11786.35	-10689.03	5170.68	1668953.23	14323171.13	39°26'34.044"N	80°53'56.118"W	11873.97	154.185	0.39	0.00	0.39	
18631.00	90.000	161.850	6182.16	11880.35	-10778.31	5200.08	1668982.61	14323081.88	39°26'33.161"N	80°53'55.745"W	11967.16	154.245	0.16	-0.03	0.16	
18725.00	90.060	161.460	6182.11	11974.35	-10867.53	5229.67	1669012.19	14322992.70	39°26'32.279"N	80°53'55.369"W	12060.38	154.302	0.42	0.06	-0.41	
18820.00	89.750	160.130	6182.26	12069.34	-10957.25	5260.92	1669043.42	14322903.02	39°26'31.392"N	80°53'54.972"W	12154.77	154.353	1.44	-0.33	-1.40	
18915.00	89.750	159.300	6182.68	12164.31	-11046.35	5293.85	1669076.34	14322813.95	39°26'30.511"N	80°53'54.553"W	12249.36	154.394	0.87	0.00	-0.87	
19010.00	89.690	158.910	6183.14	12259.25	-11135.10	5327.73	1669110.21	14322725.24	39°26'29.633"N	80°53'54.123"W	12344.04	154.431	0.42	-0.06	-0.41	
19105.00	89.720	156.770	6183.63	12354.08	-11223.08	5363.57	1669146.03	14322637.30	39°26'28.763"N	80°53'53.667"W	12438.86	154.457	2.25	0.03	-2.25	
19200.00	89.780	156.440	6184.05	12448.78	-11310.27	5401.29	1669183.74	14322550.14	39°26'27.901"N	80°53'53.188"W	12533.80	154.473	0.35	0.06	-0.35	
19295.00	89.850	157.730	6184.35	12543.54	-11397.77	5438.27	1669220.71	14322462.68	39°26'27.036"N	80°53'52.717"W	12628.70	154.493	1.36	0.07	1.36	
19391.00	89.780	159.340	6184.66	12639.44	-11487.11	5473.40	1669255.82	14322373.37	39°26'26.153"N	80°53'52.271"W	12724.46	154.523	1.68	-0.07	1.68	
19483.00	89.750	161.250	6185.04	12731.42	-11573.71	5504.42	1669286.83	14322286.80	39°26'25.296"N	80°53'51.877"W	12815.99	154.564	2.08	-0.03	2.08	
19508.00	89.750	161.250	6185.15	12756.42	-11597.39	5512.46	1669294.86	14322263.14	39°26'25.062"N	80°53'51.775"W	12840.82	154.577	0.00	0.00	0.00	Projected MD at TD: 19508'

Original Report  
 SEP 24 2020  
 Antero Resources  
 Engineering Department



# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Daniels Unit 2H AWB Ref Wellpath: Daniels Unit 2H AWP Proj: 19508'									
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	-0.32	-0.33
17.5in Open Hole	95.00	427.00	332.00	95.00	426.98	-0.32	-0.33	-1.52	-3.78
13.375in Casing Surface	30.00	427.00	397.00	30.00	426.98	0.00	0.00	-1.52	-3.78
12.25in Open Hole	427.00	2692.00	2265.00	426.98	2608.74	-1.52	-3.78	413.84	352.79
9.625in Casing Intermediate	30.00	2692.00	2662.00	30.00	2608.74	0.00	0.00	413.84	352.79
8.75in Open Hole	2692.00	5949.00	3257.00	2608.74	5684.69	413.84	352.79	1039.64	1102.72
8.5in Open Hole	5949.00	19508.00	13559.00	5684.69	6185.15	1039.64	1102.72	-11597.39	5512.46
5.5in Casing Production	30.00	19508.00	19478.00	30.00	6185.15	0.00	0.00	-11597.39	5512.46

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Daniels Unit 2H - POE - Rev-2	6060.00	669.56	1296.97	1665081.07	14334525.16	39°28'26.345"N	80°54'45.353"W	point
Daniels Unit 2H - BHL - Rev-2	6098.00	-11705.57	5521.05	1669303.45	14322155.00	39°26'23.993"N	80°53'51.667"W	point
Daniels Unit 2H - BHL - Rev-3	6098.00	-11616.77	5490.74	1669273.15	14322243.77	39°26'24.871"N	80°53'52.052"W	point
Daniels Unit 2H - LP - Rev-2	6098.00	456.01	1369.86	1665153.93	14334311.70	39°28'24.234"N	80°54'44.426"W	point

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# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

WELLPATH COMPOSITION - Ref Wellbore: Daniels Unit 2H AWB Ref Wellpath: Daniels Unit 2H AWP Proj: 19508'				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	299.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(40'-299')	Daniels Unit 2H AWB
299.00	600.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(299')(416'-600')	Daniels Unit 2H AWB
600.00	2580.00	OWSG MWD rev2 + HRGM	03 WFT EM <12-1/4">(600')(714'-2580')	Daniels Unit 2H AWB
2580.00	5877.00	OWSG MWD rev2 + HRGM	04 WFT EM <8-3/4">(2580')(2716'-5877')	Daniels Unit 2H AWB
5877.00	19483.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2">(5877')(5929'-19483')	Daniels Unit 2H AWB
19483.00	19508.00	Blind Drilling (std)	Projection to bit	Daniels Unit 2H AWB

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# Actual Wellpath Report

Daniels Unit 2H AWP Proj: 19508'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #05
Area	Tyler County, WV	Well	Daniels Unit 2H
Field	Tyler	Wellbore	Daniels Unit 2H AWB
Facility	Ferrell South Pad		

COMMENTS
<p><b>Wellpath general comments</b> API: 47-095-02567-0000 BHI Job #: 110073152A Rig: H&amp;P 519 Duration: 11/02/2019-11/04/2019 Gyrodata MS Gyro &lt;17-1/2"&gt;(40'-299') Gyrodata MS Gyro &lt;12-1/4"&gt;(299')(416'-600') WFT EM &lt;12-1/4"&gt;(600')(714'-2580') WFT EM &lt;8-3/4"&gt;(2580')(2716'-5877') BH AT Curve &lt;8-1/2"&gt;(5877')(5929'-19483') Middlesex: 6258' MD Burkett: 6426' MD Tully: 6476' MD Marcellus POE: 6556' MD Projected MD at TD: 19508'</p>

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