



Actual Wellpath Report

Gauge Unit 2H AWP Proj: 18510

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Area	Tyler County, WV
Field	Tyler	Facility	Rush Fork Pad
Slot	Slot #06	Gauge Unit 2H	Gauge Unit 2H AWB

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
ft	°	°	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft/100ft	ft/100ft	
0.00	181.740	0.00	181.740	25.50	0.00	0.00	1648993.77	14313746.31	39.2501,000°N	80°58'10.670"W	0.00	0.00	0.00	0.00	0.00	
25.50	181.740	0.00	181.740	25.50	0.00	0.00	1648993.77	14313746.31	39.2501,000°N	80°58'10.670"W	0.00	0.00	0.00	0.00	0.00	
0.00	181.740	0.00	181.740	0.00	0.00	0.00	1648993.77	14313746.31	39.2501,000°N	80°58'10.670"W	0.00	0.00	0.00	0.00	0.00	
170.50	181.740	0.090	181.740	110.50	0.06	-0.07	1648993.77	14313746.25	39.2500,999°N	80°58'10.670"W	0.07	181.740	0.11	187.067	0.26	-209.72
160.50	179.530	0.150	179.530	160.50	0.16	-0.18	1648993.75	14313746.14	39.2500,998°N	80°58'10.670"W	0.18	188.270	0.23	188.270	0.20	82.20
135.50	202.290	0.140	202.290	135.50	0.10	-0.11	1648993.76	14313746.20	39.2500,999°N	80°58'10.670"W	0.12	187.067	0.26	187.067	0.20	82.20
185.50	164.070	0.070	164.070	185.50	0.20	-0.22	1648993.76	14313746.09	39.2500,998°N	80°58'10.670"W	0.22	184.782	0.37	188.270	0.23	-91.04
210.50	183.550	0.250	183.550	210.50	0.27	-0.29	1648993.76	14313746.02	39.2500,997°N	80°58'10.670"W	0.29	183.013	0.77	183.013	0.72	117.92
235.50	203.840	0.230	203.840	235.50	0.35	-0.39	1648993.74	14313745.92	39.2500,996°N	80°58'10.670"W	0.39	185.693	0.35	185.693	0.35	-0.08
260.50	176.170	0.180	176.170	260.50	0.43	-0.48	1648993.72	14313745.84	39.2500,995°N	80°58'10.671"W	0.48	186.765	0.44	186.765	0.44	-110.68
285.50	156.330	0.190	156.330	285.50	0.51	-0.55	1648993.74	14313745.76	39.2500,995°N	80°58'10.670"W	0.55	183.863	0.26	183.863	0.26	-79.36
310.50	170.220	0.190	170.220	310.50	0.59	-0.63	1648993.76	14313745.68	39.2500,994°N	80°58'10.670"W	0.63	181.238	0.18	181.238	0.18	55.56
335.50	171.160	0.400	335.50	335.50	0.72	-0.76	1648993.78	14313745.55	39.2500,993°N	80°58'10.670"W	0.76	179.486	0.84	179.486	0.84	3.76
335.50	183.440	0.370	183.440	338.50	0.74	-0.78	1648993.78	14313745.53	39.2500,992°N	80°58'10.670"W	0.78	179.424	2.92	179.424	2.92	409.33
505.50	46.580	0.400	46.580	505.50	1.00	-0.92	1648994.17	14313745.40	39.2500,991°N	80°58'10.665"W	1.00	156.474	0.43	156.474	0.43	-81.95
505.50	46.580	0.400	46.580	505.50	1.00	-0.92	1648994.17	14313745.40	39.2500,991°N	80°58'10.665"W	1.00	156.474	0.43	156.474	0.43	-81.95
595.50	1.870	42.990	596.48	688.31	-2.04	0.19	1648995.42	14313746.70	39.2501,004°N	80°58'10.649"W	1.69	76.699	1.62	76.699	1.62	-3.95
688.50	4.750	46.180	688.31	688.31	-2.04	0.19	1648995.42	14313746.70	39.2501,004°N	80°58'10.649"W	1.69	76.699	1.62	76.699	1.62	-3.95
780.50	5.780	39.870	779.92	5.780	-5.93	10.32	1649004.90	14313756.63	39.2501,102°N	80°58'10.528"W	15.18	47.177	1.28	47.177	1.28	-6.86
872.50	37.610	871.30	967.27	7.510	-11.50	18.64	1649011.54	14313764.94	39.2501,184°N	80°58'10.443"W	25.75	43.641	1.90	43.641	1.90	-2.46
969.50	9.210	36.870	967.27	9.210	29.87	26.30	1649020.06	14313776.17	39.2501,295°N	80°58'10.335"W	39.80	41.363	1.76	41.363	1.76	-0.76
1063.50	9.790	35.560	1059.98	9.790	42.39	35.46	1649029.22	14313788.68	39.2501,419°N	80°58'12.218"W	55.27	39.914	0.66	39.914	0.66	-1.39
1158.50	10.880	36.890	1153.44	10.880	-37.34	56.13	1649039.30	14313802.42	39.2501,555°N	80°58'10.090"W	72.28	39.053	1.17	39.053	1.17	1.40
1252.50	10.900	33.970	1338.92	10.900	58.45	66.11	1649059.86	14313832.27	39.2501,850°N	80°58'09.827"W	108.47	37.555	0.36	37.555	0.36	-3.35
1347.50	10.900	33.970	1338.92	10.900	58.45	66.11	1649059.86	14313832.27	39.2501,850°N	80°58'09.827"W	108.47	37.555	0.36	37.555	0.36	-3.35
1442.50	9.800	40.230	1432.38	9.800	-67.79	99.61	1649070.10	14313845.89	39.2501,984°N	80°58'09.697"W	125.51	37.471	1.65	37.471	1.65	6.59
1537.50	9.810	48.880	1526.00	9.810	-74.76	111.11	1649081.41	14313857.38	39.2502,098°N	80°58'09.552"W	141.54	38.276	1.55	38.276	1.55	9.11
1632.50	10.310	60.490	1619.54	10.310	80.56	121.84	1649094.06	14313868.10	39.2502,204°N	80°58'09.391"W	157.83	39.470	0.60	39.470	0.60	1.69
1727.50	10.140	41.290	1713.03	10.140	-87.46	133.53	1649106.14	14313879.79	39.2502,319°N	80°58'09.237"W	174.55	40.091	1.73	40.091	1.73	-9.68
1822.50	9.920	30.000	1806.59	9.920	-96.77	146.91	1649115.74	14313893.16	39.2502,452°N	80°58'09.115"W	190.97	39.713	2.08	39.713	2.08	-11.88
1917.50	10.210	32.480	1900.13	10.210	-107.20	161.09	1649124.35	14313907.34	39.2502,592°N	80°58'09.005"W	207.40	39.039	0.55	39.039	0.55	2.61
2011.50	9.980	39.180	1992.68	9.980	-116.48	174.44	1649133.97	14313920.68	39.2502,724°N	80°58'08.882"W	223.83	38.800	1.27	38.800	1.27	7.13

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #06
Gauge Unit 2H	Well
Gauge Unit 2H AWP	Wellbore

WELLPATH DATA (225 stations)										
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[°N]	[°W]
2108.50	9.500	206.31	-124.59	186.78	150.55	1649144.26	14313933.01	39°25'02.845"N	80°58'08.751"W	239.90
2201.50	8.510	39.070	-132.10	198.19	160.08	1649153.78	14313944.42	39°25'02.958"N	80°58'08.630"W	254.76
2296.50	8.190	33.140	2274.13	-139.80	209.32	1649161.91	14313955.54	39°25'03.068"N	80°58'08.526"W	268.52
2391.50	8.400	34.000	2368.14	-147.97	220.73	1649169.49	14313966.96	39°25'03.181"N	80°58'08.429"W	282.18
2485.50	7.670	33.720	2461.21	-155.75	231.64	1649176.81	14313977.86	39°25'03.289"N	80°58'08.336"W	295.27
2560.50	7.500	41.110	2535.66	-161.10	239.49	1649182.80	14313985.71	39°25'03.366"N	80°58'08.259"W	305.15
2690.50	7.580	47.830	2664.44	-168.48	251.64	1649194.73	14313997.85	39°25'03.486"N	80°58'08.107"W	322.09
2785.50	9.220	32.920	2758.43	-175.46	262.24	1649203.51	14314008.45	39°25'03.591"N	80°58'07.995"W	335.85
2879.50	10.850	31.960	2850.99	-185.49	276.07	1649212.28	14314022.27	39°25'03.728"N	80°58'07.884"W	352.13
2980.50	10.610	38.800	2950.22	-196.21	291.38	1649223.13	14314037.58	39°25'03.879"N	80°58'07.745"W	370.88
3075.50	9.990	37.640	3043.69	-205.19	304.72	1649233.64	14314050.91	39°25'04.011"N	80°58'07.611"W	387.86
3170.50	9.740	39.530	3137.29	-213.72	317.45	1649243.79	14314063.63	39°25'04.137"N	80°58'07.482"W	404.14
3264.50	10.320	38.630	3229.85	-222.17	330.16	1649254.10	14314076.34	39°25'04.262"N	80°58'07.350"W	420.51
3358.50	9.570	35.800	3323.42	-231.08	343.21	1649264.03	14314089.38	39°25'04.391"N	80°58'07.224"W	436.91
3454.50	9.480	40.150	3417.11	-239.45	355.59	1649273.69	14314101.76	39°25'04.514"N	80°58'07.100"W	452.62
3549.50	10.300	44.210	3510.70	-247.08	367.66	1649284.65	14314113.83	39°25'04.633"N	80°58'06.961"W	468.88
3644.50	9.860	43.210	3604.24	-254.48	379.68	1649296.14	14314125.84	39°25'04.752"N	80°58'06.814"W	485.44
3739.50	10.270	35.980	3697.78	-262.92	392.46	1649306.68	14314138.61	39°25'04.878"N	80°58'06.680"W	502.01
3833.50	10.490	32.090	3790.24	-272.91	406.49	1649316.14	14314151.64	39°25'05.016"N	80°58'06.559"W	518.88
3928.50	9.780	35.060	3883.76	-282.88	420.42	1649325.37	14314166.57	39°25'05.154"N	80°58'06.441"W	535.54
4023.50	9.810	36.470	3977.37	-292.01	433.54	1649334.81	14314179.67	39°25'05.284"N	80°58'06.321"W	551.68
4118.50	10.050	39.080	4070.95	-300.78	446.48	1649344.84	14314192.61	39°25'05.412"N	80°58'06.193"W	568.06
4213.50	9.210	37.320	4164.61	-309.18	458.96	1649354.67	14314205.09	39°25'05.535"N	80°58'06.068"W	583.96
4307.50	9.570	37.480	4257.35	-317.48	471.14	1649363.98	14314217.27	39°25'05.655"N	80°58'05.949"W	599.28
4402.50	10.400	41.600	4350.91	-325.84	483.82	1649374.48	14314229.94	39°25'05.781"N	80°58'05.815"W	615.74
4496.50	11.270	38.100	4443.24	-334.77	497.39	1649385.78	14314243.51	39°25'05.915"N	80°58'05.671"W	633.40
4591.50	10.560	33.900	4536.52	-344.85	511.93	1649396.35	14314258.03	39°25'06.058"N	80°58'05.536"W	651.36
4686.50	11.000	36.640	4629.84	-355.00	526.42	1649406.61	14314272.52	39°25'06.202"N	80°58'05.405"W	669.10
4781.50	10.560	39.930	4723.17	-364.39	540.37	1649417.61	14314286.47	39°25'06.339"N	80°58'05.265"W	686.86
4875.50	9.940	38.010	4815.67	-373.05	553.37	1649428.13	14314299.46	39°25'06.468"N	80°58'05.131"W	703.58

Turn Rate Comments [°/100ft] [°/100ft] [°/100ft] [°/100ft] [°/100ft] [°/100ft] [°/100ft] [°/100ft] [°/100ft] [°/100ft]

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Gauge Unit 2H AWP Proj: 18510

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Slot	Slot #06
Gauge Unit 2H	Gauge Unit 2H AWB

WELLPATH DATA (225 Stations) † = Interpolated/extrapolated station		MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
6410.007	66.583	156.991	6153.96	32.95	225.86	723.08	1649716.56	732.52	1649726.00	14313950.01	39°25'03.230"N	80°58'01.456"W	757.53	72.653	6.97	6.87	-1.16	Burkett: 6410' MD
6460.007	69.492	156.626	6172.55	79.28	183.22	741.40	1649734.87	14313929.46	14313929.46	39°25'02.808"N	80°58'01.223"W	763.70	76.119	4.68	4.67	-0.27	Tully: 6460' MD	
6481.007	70.473	156.570	6179.74	98.97	165.11	749.23	1649742.71	14313911.36	14313911.36	39°25'02.629"N	80°58'01.123"W	767.21	77.572	4.68	4.67	-0.26	Marcellus POE: 6481' MD	
6485.00	70.660	156.560	6181.07	102.74	161.65	750.73	1649744.21	14313907.90	14313907.90	39°25'02.595"N	80°58'00.104"W	77.848	77.924	4.67	4.67	-0.26		
6532.00	72.860	157.580	6195.78	147.31	120.54	768.12	1649761.59	14313866.81	14313866.81	39°25'02.189"N	80°58'00.882"W	777.52	81.081	5.11	4.68	2.17		
6580.00	77.010	158.830	6208.25	193.62	77.52	785.32	1649778.78	14313823.80	14313823.80	39°25'01.763"N	80°58'00.663"W	789.14	84.363	9.00	8.65	2.60		
6627.00	81.970	160.250	6216.82	239.81	34.23	801.47	1649794.92	14313780.53	14313780.53	39°25'01.336"N	80°58'00.458"W	802.20	87.554	10.56	3.02	3.02		
6675.00	86.950	162.670	6224.62	287.57	-10.90	817.09	1649810.53	14313735.42	14313735.42	39°25'00.889"N	80°58'00.259"W	817.16	90.764	10.38	2.73	1.17		
6770.00	89.230	162.670	6224.62	382.45	-101.25	846.24	1649839.68	14313645.10	14313645.10	39°24'59.996"N	80°57'59.888"W	852.28	96.823	2.67	2.40	-1.17		
6865.00	89.420	161.690	6225.74	477.39	-191.69	875.31	1649868.74	14313554.70	14313554.70	39°24'59.102"N	80°57'59.518"W	896.06	102.352	1.05	-1.03	-1.03		
6960.00	89.780	159.370	6226.40	572.38	-281.25	906.98	1649900.39	14313465.18	14313465.18	39°24'58.217"N	80°57'59.115"W	949.58	107.228	2.47	-0.38	-2.44		
7055.00	89.380	158.960	6227.10	667.36	-370.03	940.76	1649934.16	14313376.43	14313376.43	39°24'57.339"N	80°57'58.665"W	1010.92	111.471	0.60	-0.42	-0.43		
7149.00	89.480	157.950	6228.03	761.31	-457.46	975.28	1649968.66	14313289.04	14313289.04	39°24'56.475"N	80°57'58.246"W	1077.24	115.129	1.08	-1.07	-1.07		
7244.00	89.450	156.510	6228.92	856.18	-545.05	1012.52	1650005.41	14313201.48	14313201.48	39°24'55.609"N	80°57'57.778"W	1149.49	118.305	1.52	-1.52	-1.52		
7339.00	89.550	155.950	6229.50	950.95	-631.95	1050.42	1650043.77	14313114.62	14313114.62	39°24'54.750"N	80°57'57.289"W	1225.87	121.032	0.82	-0.71	-0.71		
7399.00	89.290	154.140	6230.22	1045.55	-718.04	1090.58	1650083.92	14313028.56	14313028.56	39°24'53.899"N	80°57'56.778"W	1305.74	123.361	1.88	-1.79	-1.79		
7529.00	89.450	155.780	6231.26	1140.15	-804.10	1130.79	1650124.11	14312942.54	14312942.54	39°24'53.049"N	80°57'56.266"W	1387.54	125.417	1.73	1.73	1.73		
7623.00	89.380	161.520	6232.22	1234.08	-891.61	1164.99	1650158.30	14312855.06	14312855.06	39°24'52.184"N	80°57'55.830"W	1467.03	127.428	6.11	-0.07	6.11		
7718.00	89.780	163.200	6232.92	1329.00	-982.13	1193.78	1650187.07	14312764.57	14312764.57	39°24'51.289"N	80°57'55.464"W	1545.86	129.444	1.82	-0.42	1.77		
7814.00	89.380	162.840	6233.62	1424.88	-1073.95	1221.81	1650215.10	14312672.80	14312672.80	39°24'50.381"N	80°57'55.107"W	1626.71	131.315	0.56	-0.42	-0.37		
7908.00	89.450	162.290	6234.58	1518.79	-1163.62	1249.98	1650243.25	14312583.16	14312583.16	39°24'49.495"N	80°57'54.749"W	1707.77	132.951	0.59	0.07	-0.59		
8003.00	89.660	163.220	6235.32	1613.69	-1254.35	1278.14	1650271.40	14312492.47	14312492.47	39°24'48.598"N	80°57'54.391"W	1790.82	134.462	1.00	0.22	0.98		
8098.00	89.940	164.020	6235.65	1708.51	-1345.49	1304.93	1650298.18	14312401.36	14312401.36	39°24'47.697"N	80°57'54.050"W	1874.35	135.877	0.89	0.29	0.84		
8193.00	89.420	162.230	6236.18	1803.38	-1436.40	1332.51	1650325.74	14312310.49	14312310.49	39°24'46.799"N	80°57'53.699"W	1959.29	137.149	1.96	-0.55	-1.88		
8288.00	89.420	163.060	6237.14	1898.29	-1527.07	1360.84	1650354.07	14312219.86	14312219.86	39°24'45.902"N	80°57'53.338"W	2045.44	138.294	0.87	0.00	0.87		
8383.00	89.630	161.990	6237.93	1993.20	-1617.68	1389.37	1650382.58	14312129.29	14312129.29	39°24'45.007"N	80°57'52.975"W	2132.42	139.342	1.15	-1.13	-1.13		
8478.00	89.540	161.900	6238.54	2088.15	-1708.00	1418.81	1650412.01	14312039.00	14312039.00	39°24'44.114"N	80°57'52.601"W	2220.42	140.284	0.09	-0.09	-0.09		
8573.00	89.540	161.790	6239.23	2183.11	-1798.26	1448.41	1650441.60	14311948.77	14311948.77	39°24'43.222"N	80°57'52.224"W	2309.04	141.150	0.15	-0.09	-0.12		
8668.00	89.290	160.390	6240.20	2278.09	-1888.13	1479.20	1650472.38	14311858.94	14311858.94	39°24'42.333"N	80°57'51.832"W	2398.55	141.924	1.50	-0.26	-1.47		

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 Environmental Protection



Actual Wellpath Report

Gauge Unit 2H AWP Proj: 18510
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Wellbore
Gauge Unit 2H	Gauge Unit 2H AWB
Slot #06	

WELLPATH DATA (225 stations)

MD (ft)	Inclination (ft)	Azimuth (ft)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (ft)	Grid North (ft)	Latitude (ft)	Longitude (ft)	Closure Dist (ft)	Closure Dir (ft)	DLS (ft)	Build Rate (ft/100ft)	Turn Rate (ft/100ft)	Comments
8762.00	159.660	6241.11	2372.08	-1976.47	1511.31	1650504.47	14311770.64	39°24'41.460"N	80°57'51.424"W	2488.07	142.597	0.84	0.33	-0.78		
8857.00	157.790	6241.70	2467.05	-2064.99	1545.77	1650538.93	14311682.15	39°24'40.585"N	80°57'50.885"W	2579.46	143.183	1.97	0.05	-1.97		
8932.00	157.640	6242.47	2561.96	-2152.89	1581.80	1650574.94	14311594.29	39°24'39.716"N	80°57'50.526"W	2671.52	143.694	0.36	-0.33	-0.16		
9047.00	157.150	6243.57	2656.84	-2240.59	1618.31	1650611.43	14311506.63	39°24'38.849"N	80°57'50.062"W	2763.90	144.161	0.52	-0.05	-0.52		
9142.00	156.360	6244.90	2751.66	-2327.87	1655.80	1650648.91	14311419.38	39°24'37.986"N	80°57'49.584"W	2856.68	144.576	0.85	-0.19	-0.83		
9236.00	157.020	6246.31	2845.48	-2414.18	1692.99	1650686.09	14311333.10	39°24'37.133"N	80°57'49.111"W	2948.64	144.969	0.70	0.06	0.70		
9331.00	157.040	6247.51	2940.33	-2501.64	1730.06	1650723.14	14311245.67	39°24'36.269"N	80°57'48.639"W	3041.60	145.333	0.22	0.22	0.02		
9426.00	157.290	6248.41	3035.20	-2589.20	1766.93	1650759.99	14311158.16	39°24'35.403"N	80°57'48.170"W	3134.64	145.689	0.31	0.17	0.26		
9521.00	157.270	6249.27	3130.07	-2676.82	1803.62	1650796.67	14311070.57	39°24'34.537"N	80°57'47.703"W	3227.76	146.028	0.13	-0.13	-0.02		
9616.00	158.290	6250.16	3224.99	-2764.76	1839.54	1650832.58	14310982.66	39°24'33.668"N	80°57'47.246"W	3320.81	146.362	1.08	-0.03	1.07		
9711.00	158.260	6251.28	3319.93	-2853.01	1874.70	1650867.72	14310894.45	39°24'32.795"N	80°57'46.798"W	3413.82	146.691	0.39	-0.39	-0.03		
9806.00	159.570	6252.58	3414.89	-2941.64	1908.88	1650901.88	14310805.86	39°24'31.919"N	80°57'46.363"W	3506.71	147.020	1.39	0.16	1.38		
9901.00	160.480	6254.06	3509.88	-3030.91	1941.32	1650934.32	14310716.62	39°24'31.037"N	80°57'45.950"W	3599.33	147.360	1.03	-0.39	0.96		
9996.00	160.620	6256.00	3604.86	-3120.47	1972.95	1650969.83	14310627.10	39°24'30.152"N	80°57'45.548"W	3691.86	147.696	0.24	-0.19	0.15		
10091.00	161.470	6257.97	3699.83	-3210.30	2003.80	1650996.77	14310537.31	39°24'29.264"N	80°57'45.155"W	3784.34	148.028	0.91	0.16	0.89		
10187.00	161.890	6259.36	3795.73	-3301.83	2032.70	1651025.66	14310445.81	39°24'28.369"N	80°57'44.788"W	3877.36	148.382	2.18	0.58	2.10		
10282.00	161.890	6260.33	3890.63	-3392.52	2060.96	1651053.91	14310355.16	39°24'27.462"N	80°57'44.428"W	3969.48	148.721	1.69	-0.07	-1.68		
10377.00	159.440	6261.58	3985.61	-3482.12	2092.49	1651085.42	14310265.59	39°24'26.577"N	80°57'44.027"W	4062.47	148.997	2.70	-0.28	-2.68		
10472.00	157.540	6263.21	4080.55	-3570.45	2127.39	1651120.31	14310177.29	39°24'25.703"N	80°57'43.583"W	4156.19	149.212	1.90	-0.20	-1.89		
10567.00	158.870	6265.03	4175.44	-3658.31	2163.50	1651156.40	14310089.48	39°24'24.835"N	80°57'43.123"W	4250.17	149.400	0.25	-0.03	0.25		
10662.00	158.980	6266.31	4270.39	-3746.61	2198.49	1651191.38	14310001.20	39°24'23.962"N	80°57'42.678"W	4344.02	149.596	1.45	0.72	1.26		
10758.00	159.630	6267.55	4366.37	-3836.41	2232.42	1651225.29	14309911.44	39°24'23.074"N	80°57'42.246"W	4438.66	149.805	0.94	-0.65	0.68		
10853.00	160.230	6269.05	4461.35	-3925.61	2265.08	1651257.94	14309822.28	39°24'22.193"N	80°57'41.831"W	4532.21	150.015	0.62	0.29	0.55		
10948.00	160.610	6270.50	4556.34	-4015.08	2296.97	1651289.82	14309732.84	39°24'21.308"N	80°57'41.425"W	4625.68	150.227	0.53	-0.22	0.48		
11043.00	162.900	6271.83	4651.29	-4105.29	2326.71	1651319.55	14309642.67	39°24'20.417"N	80°57'41.046"W	4718.79	150.457	2.44	0.38	2.41		
11138.00	164.920	6273.60	4746.06	-4196.55	2353.03	1651345.86	14309551.45	39°24'19.514"N	80°57'40.712"W	4811.21	150.720	2.32	-0.94	2.13		
11234.00	165.500	6275.07	4841.68	-4289.35	2377.53	1651370.35	14309458.68	39°24'18.597"N	80°57'40.400"W	4904.20	151.001	1.44	1.31	0.60		
11322.00	164.500	6276.88	4929.36	-4374.34	2400.35	1651393.16	14309373.73	39°24'17.757"N	80°57'40.110"W	4998.64	151.245	1.35	-0.63	-1.19		
11417.00	165.480	6277.20	5024.02	-4466.08	2424.99	1651417.79	14309282.03	39°24'16.850"N	80°57'39.796"W	5081.97	151.499	1.08	0.00	1.08		
11512.00	164.530	6278.81	5118.66	-4557.83	2449.56	1651442.35	14309190.32	39°24'15.943"N	80°57'39.484"W	5174.38	151.745	1.06	-0.36	-1.00		

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REFERENCE WELLPATH IDENTIFICATION		Slot	Wellbore	Gauge Unit 2H AWB	Gauge Unit 2H	Field	Tyler	Rush Fork Pad
Operator	ANTERO RESOURCES CORPORATION		Well	Gauge Unit 2H	Area	Tyler County, WV		
Facility			Wellbore	Gauge Unit 2H AWB				

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
11607.00	88.980	163.020	6280.60	5213.45	-4649.03	2476.10	1651468.88	14309099.15	39°24'15.042"N	80°57'39.146"W	5267.31	151.960	1.59	0.13	-1.59	
11702.00	89.510	163.290	6281.86	5308.32	-4739.94	2503.63	1651496.40	14309008.28	39°24'14.143"N	80°57'38.796"W	5360.52	152.157	0.63	0.56	-0.28	
11797.00	89.480	165.010	6282.69	5403.08	-4831.32	2529.57	1651522.33	14308916.93	39°24'13.240"N	80°57'38.466"W	5453.48	152.364	1.81	-0.03	1.81	
11892.00	89.570	166.160	6283.48	5497.65	-4923.33	2553.22	1651545.97	14308824.96	39°24'12.330"N	80°57'38.165"W	5546.00	152.569	1.21	0.09	1.21	
11986.00	89.660	165.220	6284.14	5591.21	-5014.41	2576.45	1651569.19	14308733.92	39°24'11.430"N	80°57'37.870"W	5637.59	152.805	1.00	0.10	-1.00	
12081.00	89.880	162.130	6284.49	5686.02	-5105.57	2603.15	1651595.88	14308642.80	39°24'10.529"N	80°57'37.530"W	5730.90	152.985	3.26	0.23	-3.26	
12177.00	90.340	157.160	6284.31	5781.98	-5195.54	2636.54	1651629.25	14308552.86	39°24'09.640"N	80°57'37.105"W	5826.23	153.094	5.20	0.48	-5.18	
12272.00	90.250	152.900	6283.82	5876.58	-5281.64	2676.63	1651669.33	14308466.79	39°24'08.789"N	80°57'36.595"W	5921.16	153.125	4.49	-0.09	-4.48	
12367.00	89.290	149.680	6284.20	5970.43	-5364.95	2722.26	1651714.94	14308383.52	39°24'07.965"N	80°57'36.014"W	6016.09	153.096	3.54	-1.01	-3.39	
12462.00	89.230	154.360	6285.43	6084.44	-5448.81	2766.81	1651759.47	14308299.69	39°24'07.136"N	80°57'35.447"W	6111.04	153.079	4.93	-0.06	4.93	
12557.00	89.510	158.040	6286.47	6159.19	-5535.72	2805.14	1651797.79	14308212.82	39°24'06.277"N	80°57'34.960"W	6205.88	153.127	3.88	0.29	3.87	
12651.00	89.320	159.670	6287.43	6253.16	-5623.38	2839.05	1651831.68	14308125.19	39°24'05.410"N	80°57'34.528"W	6299.41	153.212	1.75	-0.20	1.73	
12746.00	89.420	158.320	6288.48	6348.13	-5712.06	2873.10	1651865.72	14308036.55	39°24'04.534"N	80°57'34.095"W	6393.93	153.298	1.42	0.11	-1.42	
12841.00	89.380	157.850	6289.47	6443.06	-5800.19	2908.55	1651901.16	14307948.45	39°24'03.662"N	80°57'33.644"W	6488.59	153.368	0.50	-0.04	-0.49	
12935.00	89.350	158.970	6291.59	6531.85	-5974.90	2980.58	1651973.15	14307773.81	39°24'01.935"N	80°57'32.727"W	6582.37	153.424	1.14	-0.03	-1.14	
13030.00	89.350	159.970	6291.59	6631.85	-5974.90	2980.58	1651973.15	14307773.81	39°24'01.935"N	80°57'32.727"W	6677.07	153.488	2.31	0.00	2.31	
13125.00	89.290	162.040	6292.72	6726.83	-6064.44	3012.27	1652004.84	14307684.31	39°24'01.050"N	80°57'32.324"W	6771.35	153.586	3.23	-0.06	3.23	
13220.00	89.260	163.630	6293.92	6821.72	-6155.20	3040.31	1652032.86	14307593.59	39°24'00.153"N	80°57'31.967"W	6865.13	153.713	1.67	-0.03	1.67	
13315.00	89.290	163.870	6295.12	6916.52	-6246.40	3066.89	1652059.43	14307502.43	39°23'59.252"N	80°57'31.629"W	6958.68	153.850	0.25	0.03	0.25	
13410.00	89.420	164.070	6296.19	7011.31	-6337.70	3093.12	1652085.65	14307411.16	39°23'58.349"N	80°57'31.296"W	7052.22	153.985	0.25	0.14	0.21	
13505.00	89.380	164.920	6297.19	7106.03	-6429.23	3118.51	1652111.04	14307319.66	39°23'57.444"N	80°57'30.973"W	7145.64	154.124	0.90	-0.04	0.89	
13600.00	89.630	166.160	6298.01	7200.60	-6521.22	3142.24	1652134.75	14307227.71	39°23'56.535"N	80°57'30.671"W	7238.78	154.273	1.33	0.26	1.31	
13695.00	89.630	166.160	6298.01	7200.60	-6521.22	3142.24	1652134.75	14307227.71	39°23'56.535"N	80°57'30.671"W	7331.92	154.420	1.00	0.00	-1.00	
13790.00	89.750	162.430	6299.14	7389.96	-6704.49	3192.19	1652184.68	14307044.51	39°23'54.723"N	80°57'30.036"W	7425.65	154.540	2.93	0.13	-2.93	
13886.00	89.420	159.780	6299.83	7485.93	-6795.31	3223.28	1652215.76	14306953.73	39°23'53.826"N	80°57'29.640"W	7521.02	154.623	2.78	-0.34	-2.76	
13981.00	89.450	161.650	6300.77	7580.92	-6884.97	3254.65	1652247.12	14306864.11	39°23'52.939"N	80°57'29.241"W	7615.48	154.699	1.97	0.03	1.97	
14076.00	89.480	161.960	6301.66	7675.87	-6975.22	3284.31	1652276.77	14306773.90	39°23'52.047"N	80°57'28.864"W	7709.76	154.786	0.33	0.03	0.33	
14171.00	89.320	163.710	6302.65	7770.76	-7066.98	3312.35	1652304.79	14306683.18	39°23'51.150"N	80°57'28.507"W	7803.82	154.884	1.85	-0.17	1.84	
14266.00	89.970	161.750	6303.24	7865.66	-7156.69	3340.55	1652332.98	14306592.50	39°23'50.253"N	80°57'28.149"W	7897.94	154.978	2.17	0.68	-2.06	
14361.00	89.750	162.430	6303.24	7865.66	-7156.69	3340.55	1652332.98	14306592.50	39°23'50.253"N	80°57'27.744"W	7992.51	155.043	2.81	-0.23	-2.80	

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Rush Fork Pad
Well	Gauge Unit 2H
Wellbore	Gauge Unit 2H AWB
Slot #	Slot #06

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
1456.00	89.480	157.020	6304.11	8055.58	-7334.29	3407.88	14306414.97	39.2348.498°N	80°57'27.292"W	8087.37	155.078	2.20	-0.28	-2.18	-1.84	
1452.00	89.320	155.250	6305.12	8151.33	-7422.08	3446.72	14306327.22	39.2347.630°N	80°57'26.798"W	8183.34	155.090	1.85	-0.17	-1.84	-1.00	
1467.00	89.540	154.300	6306.06	8245.91	-7508.01	3487.20	1652479.57	39.2346.780°N	80°57'26.283"W	8278.34	155.087	1.03	0.23	-1.00	-0.93	
1472.00	89.450	153.420	6306.90	8340.33	-7593.29	3529.05	14306156.07	39.2345.937°N	80°57'25.750"W	8373.31	155.073	0.93	0.00	-0.93	3.05	
1493.00	89.350	158.590	6308.81	8530.79	-7767.94	3606.19	14305981.49	39.2344.211°N	80°57'24.769"W	8564.20	155.097	2.36	-0.11	2.36	1.66	
1502.00	89.350	160.170	6309.89	8625.77	-7856.83	3639.64	14305892.62	39.2343.332°N	80°57'24.343"W	8658.93	155.144	1.61	0.00	1.61	1.63	
1519.00	89.200	162.540	6311.92	8816.69	-8038.00	3700.11	1652692.40	39.2341.541°N	80°57'23.574"W	8848.74	155.282	0.91	-0.32	0.85	-0.33	
1534.00	89.570	162.230	6312.94	8911.62	-8128.54	3728.86	1652721.13	39.2340.646°N	80°57'23.208"W	8943.01	155.357	0.51	-0.39	-0.33	0.20	
1540.00	89.420	162.420	6313.68	9006.54	-8219.05	3757.70	14305530.57	39.2339.752°N	80°57'22.842"W	9037.32	155.430	0.20	-0.03	0.14	1.01	
1549.00	89.420	162.550	6314.54	9101.46	-8309.64	3786.29	14305440.01	39.2338.856°N	80°57'22.478"W	9131.60	155.504	0.19	-0.13	1.01	1.01	
1559.00	89.320	164.570	6315.49	9188.30	-8393.08	3810.91	1652803.15	39.2338.031°N	80°57'22.165"W	9217.74	155.579	2.32	-0.11	2.32	2.02	
1568.00	89.690	168.490	6316.57	9282.87	-8455.05	3834.65	14305264.67	39.2337.122°N	80°57'21.863"W	9311.32	155.680	2.06	0.39	2.02	1.01	
1578.00	90.000	167.450	6316.57	9377.20	-8577.61	3856.06	1652848.29	39.2336.207°N	80°57'21.591"W	9404.60	155.794	1.06	0.33	1.01	3.55	
1587.00	91.020	164.080	6317.73	9471.73	-8669.67	3879.42	14305080.12	39.2335.297°N	80°57'21.294"W	9498.06	155.893	3.71	1.07	-3.55	-6.67	
1597.00	90.430	157.740	6314.52	9566.67	-8759.39	3910.47	1652902.67	39.2334.410°N	80°57'20.899"W	9592.64	155.942	6.70	-0.62	-6.67	-5.25	
1606.00	90.150	161.750	6314.04	9661.28	-8845.64	3950.24	14304904.23	39.2333.558°N	80°57'20.393"W	9687.60	155.936	5.26	-0.29	-5.25	0.13	
1616.00	90.120	162.870	6313.82	9754.51	-8929.25	3993.19	1652985.36	39.2332.731°N	80°57'19.846"W	9781.46	155.906	0.13	-0.03	0.13	1.65	
1625.00	90.180	154.440	6313.57	9848.90	-9014.38	4035.35	1653027.50	39.2331.890°N	80°57'19.310"W	9876.39	155.884	1.65	0.06	1.65	-1.57	
1635.00	90.090	152.950	6313.55	9943.29	-9099.54	4077.45	14304650.43	39.2331.048°N	80°57'18.774"W	9971.32	155.863	1.57	-0.09	-1.57	1.45	
1644.00	89.690	154.450	6313.53	10037.68	-9184.70	4119.54	14304565.30	39.2330.206°N	80°57'18.239"W	10066.25	155.843	1.63	-0.42	1.58	1.45	
1654.00	89.020	158.430	6314.60	10132.46	-9271.76	4157.50	16534478.28	39.2329.345°N	80°57'17.756"W	10161.22	155.848	4.25	-0.71	4.19	3.44	
1663.00	89.750	161.700	6315.62	10227.44	-9361.05	4189.88	1653181.97	39.2328.463°N	80°57'17.344"W	10255.94	155.887	3.53	0.77	3.44	1.39	
1673.00	90.150	163.020	6315.70	10322.37	-9451.58	4218.67	14304298.53	39.2327.568°N	80°57'16.978"W	10350.34	155.947	1.45	0.42	1.39	1.45	
1682.00	90.250	164.380	6315.38	10416.18	-9541.80	4245.05	1653237.12	39.2326.676°N	80°57'16.642"W	10443.49	156.016	1.45	0.11	1.45	-3.01	
1691.00	90.400	162.340	6314.84	10511.03	-9632.81	4272.26	1653264.31	39.2325.776°N	80°57'16.296"W	10537.71	156.082	2.15	0.16	-2.15	-0.92	
1701.00	90.800	161.470	6313.84	10605.98	-9723.11	4301.76	14304027.11	39.2324.884°N	80°57'15.921"W	10632.22	156.134	1.01	0.42	-0.92	-3.01	
1710.00	90.280	158.610	6312.95	10700.97	-9812.39	4334.18	1653326.22	39.2324.001°N	80°57'15.509"W	10726.98	156.169	3.06	-0.55	-3.01	1.20	
1720.00	89.940	159.750	6312.76	10795.95	-9901.18	4367.95	1653359.97	39.2323.123°N	80°57'15.079"W	10821.85	156.195	1.25	-0.36	1.20		

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Gauge Unit 2H AWP Proj: 18510
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Gauge Unit 2H
Field	Tyler	Wellbore	Gauge Unit 2H AWB
Facility	Rush Fork Pad		

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
17299.00	90.180	159.060	6312.66	10890.94	-990.11	4401.37	1653393.37	14303760.22	39°23'22.24"N	80°57'14.65"W	10916.70	156.223	0.77	0.23	-0.73	
17393.00	90.120	158.170	6312.42	10984.90	-10077.64	4435.64	1663427.63	14303672.72	39°23'21.379"N	80°57'14.218"W	11010.62	156.243	0.95	-0.06	-0.95	
17488.00	90.120	154.710	6312.22	11079.69	-10164.71	4473.61	1653465.58	14303585.69	39°23'20.518"N	80°57'13.735"W	11105.60	156.245	3.64	0.00	-3.64	
17583.00	89.820	155.910	6312.27	11174.35	-10251.02	4513.29	1653505.25	14303499.41	39°23'19.665"N	80°57'13.231"W	11200.59	156.237	1.30	-0.32	1.26	
17678.00	89.720	158.970	6312.65	11269.23	-10330.74	4549.73	1653541.68	14303411.73	39°23'18.798"N	80°57'12.767"W	11295.56	156.247	3.22	-0.11	3.22	
17773.00	90.060	163.640	6312.83	11364.18	-10428.70	4580.17	1653572.11	14303321.80	39°23'17.908"N	80°57'12.380"W	11390.16	156.289	4.93	0.36	4.92	
17868.00	90.250	163.260	6312.58	11459.03	-10519.77	4607.23	1653599.16	14303230.77	39°23'17.008"N	80°57'12.036"W	11484.43	156.349	0.45	0.20	-0.40	
17962.00	90.250	161.410	6312.17	11552.95	-10609.33	4635.76	1653627.67	14303141.25	39°23'16.123"N	80°57'11.673"W	11577.91	156.397	1.97	0.00	-1.97	
18057.00	90.030	159.520	6311.93	11647.95	-10698.86	4667.52	1653659.42	14303051.76	39°23'15.238"N	80°57'11.269"W	11672.67	156.430	2.00	-0.23	-1.99	
18152.00	90.120	159.410	6311.81	11742.94	-10787.82	4700.85	1653692.73	14302962.83	39°23'14.358"N	80°57'10.845"W	11767.54	156.455	0.45	0.09	-0.12	
18246.00	89.570	161.010	6312.06	11836.94	-10876.26	4732.67	1653724.54	14302874.42	39°23'13.484"N	80°57'10.441"W	11861.34	156.484	1.80	-0.59	1.70	
18341.00	90.220	165.270	6312.24	11931.79	-10967.16	4760.22	1653752.08	14302783.56	39°23'12.586"N	80°57'10.090"W	11955.68	156.537	4.54	0.68	4.48	
18436.00	90.460	162.560	6311.67	12026.67	-11058.43	4786.54	1653778.39	14302692.33	39°23'11.683"N	80°57'09.756"W	12049.89	156.595	2.86	0.25	-2.85	
18485.00	90.580	160.090	6311.23	12075.56	-11104.84	4802.22	1653794.07	14302645.93	39°23'11.225"N	80°57'09.556"W	12098.72	156.614	5.05	0.24	-5.04	
18510.00	90.580	160.090	6310.98	12100.55	-11128.35	4810.74	1653802.58	14302622.44	39°23'10.992"N	80°57'09.448"W	12123.67	156.621	0.00	0.00	0.00	Projected MD at TD: 18510'

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Gauge Unit 2H AWP Proj: 18510



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Gauge Unit 2H
Field	Tyler	Wellbore	Gauge Unit 2H AWP
Facility	Rush Fork Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Gauge Unit 2H AWP									
Ref Wellpath: Gauge Unit 2H AWP Proj: 18510									
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	25.50	105.50	80.00	25.50	105.50	0.00	0.00	-0.06	0.00
17.5in Open Hole	105.50	362.50	257.00	362.50	105.50	-0.06	0.00	-0.91	0.01
13.375in Casing Surface	25.50	362.50	337.00	25.50	362.50	0.00	0.00	-0.91	0.01
12.25in Open Hole	362.50	2642.50	2280.00	362.50	2616.85	-0.91	0.01	247.31	196.45
9.625in Casing Intermediate	25.50	2642.50	2617.00	25.50	2616.85	0.00	0.00	247.31	196.45
8.75in Open Hole	2642.50	5960.50	3318.00	2616.85	5869.23	247.31	196.45	532.89	582.03
8.5in Open Hole	5960.50	18510.00	12549.50	5869.23	6310.98	532.89	582.03	-11128.35	4810.74
5.5in Casing Production	25.50	18510.00	18484.50	25.50	6310.98	0.00	0.00	-11128.35	4810.74

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
Gauge Unit 2H - POE - Rev-2	6184.00	173.99	743.38	1649736.85	14313920.23	39°25'02.717"N	80°58'01.197"W	point	
Gauge Unit 2H - BHL - Rev-2	6218.00	-11165.49	4834.90	1653826.73	14302585.31	39°23'10.625"N	80°57'09.140"W	point	
Gauge Unit 2H - LP - Rev-2	6218.00	-24.84	815.12	1649808.57	14313721.48	39°25'00.752"N	80°58'00.284"W	point	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #06
Area	Tyler County, WV	Well	Gauge Unit 2H
Field	Tyler	Wellbore	Gauge Unit 2H AWB
Facility	Rush Fork Pad		

WELLPATH COMPOSITION - Ref Wellbore: Gauge Unit 2H AWB			
Ref Wellpath: Gauge Unit 2H AWP Proj: 18510			
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment
25.50	338.50	Gyrodatta standard - Drop gyro or Multi-shot	01 Gyrodatta MS Gyro <17-1/2"><100-328)
338.50	2560.50	OWSG MWD rev2 + HRGM	02 WFT EM <12-1/4"><328)(495-2550)
2560.50	2560.50	OWSG MWD rev2 + HRGM	03 WFT EM <8-3/4"><2550)(2680-5877)
5887.50	5887.50	BH Autotrak Curve (Short)	04 BH AT Curve <8-1/2">(5887.5)(5942-18485)
5887.50	18485.00	Blind Drilling (std)	Projection to bit
18485.00	18485.00		Gauge Unit 2H AWB
			Gauge Unit 2H AWB
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			Gauge Unit 2H AWB
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			Wellbore

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Facility	Rush Fork Pad		

COMMENTS
Wellpath general comments API: 47-095-02539-0000 BHI Job #: 109764486 Rig: H&P 317 Duration: 04/16/2019-04/19/2019 Gyrodata MS Gyro <17-1/2"><(100'-328') WFT EM <12-1/4">(328')(495'-2550') WFT EM <8-3/4">(2550')(2680'-587') BH AT Curve <8-1/2">(5887.5')(5942'-18485') Middlesex: 6229' MD Burkett: 6410' MD Tully: 6460' MD Marcellus POE: 6481' MD Projected MD at TD: 18510'

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