



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mammoth Unit 2H
Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999604	Report Generated	12/10/2019 at 5:00:35 PM
Convergence at slot	0.13° East	Database	WA_MPL_EasternUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-16.89	10.66	1700267.34	14308683.68	39°24'10.2630"N	80°47'17.2540"W
Facility Reference Pt			1700256.68	14308700.56	39°24'10.4301"N	80°47'17.3894"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 342 (RKB) to Facility Vertical Datum	768.00ft
Horizontal Reference Pt	Slot	Patterson 342 (RKB) to Mean Sea Level	768.00ft
Vertical Reference Pt	Patterson 342 (RKB)	Patterson 342 (RKB) to Ground Level at Slot (Slot #07)	25.00ft
MD Reference Pt	Patterson 342 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.50°



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WELLPATH DATA (196 stations) † = interpolated, ‡ = extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.00	249.410	0.00	0.00	0.00	0.00	1700267.34	14308683.68	39°24'10.2630"N	80°47'17.2540"W	0.00	0.000	0.00	0.00	0.00	
25.00	0.00	249.410	25.00	0.00	0.00	0.00	1700267.34	14308683.68	39°24'10.2630"N	80°47'17.2540"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.570	249.410	100.00	0.01	-0.13	-0.35	1700266.99	14308683.55	39°24'10.2617"N	80°47'17.2585"W	0.37	249.410	0.76	0.76	0.00	Gyrodata MS Gyro <17-1/2">(100'-352')
125.00	0.550	250.730	125.00	0.02	-0.21	-0.58	1700266.76	14308683.47	39°24'10.2609"N	80°47'17.2614"W	0.62	249.667	0.10	-0.08	5.28	
150.00	0.560	249.420	150.00	0.03	-0.30	-0.81	1700266.53	14308683.38	39°24'10.2601"N	80°47'17.2643"W	0.86	249.780	0.06	0.04	-5.24	
175.00	0.500	250.040	175.00	0.03	-0.38	-1.02	1700266.32	14308683.30	39°24'10.2593"N	80°47'17.2671"W	1.09	249.766	0.24	-0.24	2.48	
200.00	0.480	256.010	199.99	0.03	-0.44	-1.23	1700266.11	14308683.24	39°24'10.2587"N	80°47'17.2697"W	1.30	250.289	0.22	-0.08	23.88	
225.00	0.410	273.640	224.99	-0.01	-0.46	-1.42	1700265.92	14308683.22	39°24'10.2585"N	80°47'17.2721"W	1.49	252.053	0.61	-0.28	70.52	
250.00	0.310	256.640	249.99	-0.05	-0.47	-1.57	1700265.77	14308683.21	39°24'10.2584"N	80°47'17.2741"W	1.64	253.390	0.58	-0.40	-68.00	
275.00	0.240	258.280	274.99	-0.07	-0.50	-1.69	1700265.65	14308683.18	39°24'10.2581"N	80°47'17.2756"W	1.76	253.660	0.28	-0.28	6.56	
300.00	0.130	266.720	299.99	-0.08	-0.51	-1.77	1700265.57	14308683.17	39°24'10.2580"N	80°47'17.2766"W	1.84	253.990	0.45	-0.44	33.76	
325.00	0.020	259.500	324.99	-0.09	-0.51	-1.80	1700265.54	14308683.17	39°24'10.2580"N	80°47'17.2770"W	1.87	254.194	0.44	-0.44	-28.88	
350.00	0.140	74.740	349.99	-0.09	-0.50	-1.78	1700265.56	14308683.18	39°24'10.2581"N	80°47'17.2767"W	1.85	254.198	0.64	0.48	700.96	
352.00	0.140	73.190	351.99	-0.09	-0.50	-1.77	1700265.57	14308683.18	39°24'10.2581"N	80°47'17.2766"W	1.84	254.198	0.19	0.00	-77.50	
469.00	0.370	96.350	468.99	0.08	-0.50	-1.26	1700266.08	14308683.18	39°24'10.2581"N	80°47'17.2701"W	1.36	248.280	0.21	0.20	19.79	Gyrodata MS Gyro <12-1/4">(352')(469'-959')
560.00	0.660	104.770	559.99	0.49	-0.67	-0.46	1700266.88	14308683.01	39°24'10.2564"N	80°47'17.2599"W	0.81	214.646	0.33	0.32	9.25	
650.00	1.370	90.430	649.97	1.12	-0.81	1.12	1700268.45	14308682.87	39°24'10.2550"N	80°47'17.2398"W	1.38	125.940	0.83	0.79	-15.93	
743.00	3.050	69.120	742.90	1.38	0.07	4.54	1700271.88	14308683.74	39°24'10.2635"N	80°47'17.1962"W	4.54	89.179	1.98	1.81	-22.91	
833.00	5.150	51.550	832.67	-0.10	3.43	9.94	1700277.28	14308687.11	39°24'10.2967"N	80°47'17.1273"W	10.52	70.959	2.69	2.33	-19.52	
959.00	4.930	35.670	958.19	-5.20	11.35	17.53	1700284.86	14308695.02	39°24'10.3747"N	80°47'17.0304"W	20.88	57.083	1.12	-0.17	-12.60	
1050.00	3.970	50.110	1048.92	-8.64	16.54	22.22	1700289.56	14308700.22	39°24'10.4260"N	80°47'16.9704"W	27.71	53.337	1.61	-1.05	15.87	APS EM <12-1/4">(959')(1050'-2700')
1149.00	5.680	55.970	1147.56	-11.20	21.48	28.91	1700296.24	14308705.15	39°24'10.4747"N	80°47'16.8850"W	36.02	53.388	1.80	1.73	5.92	
1244.00	7.710	58.730	1241.91	-13.87	27.42	38.26	1700305.58	14308711.09	39°24'10.5331"N	80°47'16.7658"W	47.07	54.368	2.16	2.14	2.91	
1338.00	9.280	57.170	1334.88	-17.14	34.80	50.02	1700317.34	14308718.47	39°24'10.6058"N	80°47'16.6158"W	60.94	55.167	1.69	1.67	-1.66	
1433.00	10.630	52.950	1428.44	-21.82	44.24	63.45	1700330.76	14308727.90	39°24'10.6987"N	80°47'16.4444"W	77.35	55.115	1.61	1.42	-4.44	
1527.00	12.120	49.240	1520.60	-28.32	55.90	77.84	1700345.15	14308739.56	39°24'10.8137"N	80°47'16.2607"W	95.84	54.315	1.77	1.59	-3.95	
1622.00	14.310	50.540	1613.08	-36.29	69.88	94.46	1700361.77	14308753.53	39°24'10.9515"N	80°47'16.0486"W	117.50	53.508	2.33	2.31	1.37	
1716.00	17.930	54.550	1703.37	-44.67	85.66	115.23	1700382.52	14308769.31	39°24'11.1069"N	80°47'15.7836"W	143.58	53.373	4.03	3.85	4.27	
1811.00	21.720	58.640	1792.73	-52.85	103.30	142.16	1700409.44	14308786.94	39°24'11.2806"N	80°47'15.4399"W	175.73	53.997	4.25	3.99	4.31	
1906.00	24.560	61.280	1880.08	-60.27	121.94	174.49	1700441.76	14308805.57	39°24'11.4641"N	80°47'15.0275"W	212.88	55.054	3.18	2.99	2.78	



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Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

WELLPATH DATA (196 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
2001.00	25.890	62.460	1966.02	-67.03	141.01	210.20	1700477.46	14308824.64	39°24'11.6518"N	80°47'14.5721"W	253.12	56.144	1.50	1.40	1.24	
2096.00	27.180	61.010	2051.01	-74.24	161.12	247.57	1700514.81	14308844.74	39°24'11.8497"N	80°47'14.0954"W	295.38	56.944	1.52	1.36	-1.53	
2190.00	30.480	62.110	2133.35	-82.04	182.68	287.43	1700554.66	14308866.29	39°24'12.0619"N	80°47'13.5869"W	340.57	57.561	3.56	3.51	1.17	
2285.00	32.190	61.390	2214.49	-90.41	206.07	330.95	1700598.15	14308889.67	39°24'12.2920"N	80°47'13.0319"W	389.86	58.090	1.84	1.80	-0.76	
2379.00	32.330	60.060	2293.98	-99.79	230.61	374.71	1700641.90	14308914.20	39°24'12.5335"N	80°47'12.4737"W	439.98	58.390	0.77	0.15	-1.41	
2474.00	31.430	57.130	2374.65	-110.98	256.73	417.53	1700684.70	14308940.31	39°24'12.7907"N	80°47'11.9274"W	490.14	58.413	1.88	-0.95	-3.08	
2568.00	30.280	54.070	2455.35	-124.16	283.94	457.31	1700724.46	14308967.51	39°24'13.0587"N	80°47'11.4198"W	538.29	58.164	2.07	-1.22	-3.26	
2663.00	28.780	50.350	2538.01	-139.59	312.59	494.31	1700761.46	14308996.15	39°24'13.3410"N	80°47'10.9475"W	584.86	57.692	2.49	-1.58	-3.92	
2700.00	28.400	48.520	2570.50	-146.24	324.10	507.76	1700774.90	14309007.66	39°24'13.4545"N	80°47'10.7758"W	602.38	57.450	2.58	-1.03	-4.95	
2834.00	26.190	46.950	2689.58	-170.97	365.40	553.25	1700820.37	14309048.94	39°24'13.8616"N	80°47'10.1951"W	663.03	56.557	1.73	-1.65	-1.17	BH AT Cruve <8-1/2">(2700')(2834'-16566')
2929.00	25.960	49.650	2774.91	-187.42	393.18	584.42	1700851.53	14309076.70	39°24'14.1353"N	80°47'9.7972"W	704.37	56.069	1.27	-0.24	2.84	
3023.00	29.070	51.770	2858.27	-202.79	420.64	618.05	1700885.14	14309104.15	39°24'14.4060"N	80°47'9.3680"W	747.61	55.761	3.47	3.31	2.26	
3117.00	29.900	54.450	2940.10	-217.37	448.39	655.05	1700922.13	14309131.89	39°24'14.6794"N	80°47'8.8958"W	793.82	55.608	1.66	0.88	2.85	
3212.00	29.800	57.210	3022.50	-230.14	474.94	694.16	1700961.23	14309158.44	39°24'14.9409"N	80°47'8.3967"W	841.09	55.620	1.45	-0.11	2.91	
3306.00	29.820	60.940	3104.07	-240.19	498.95	734.23	1701001.28	14309182.43	39°24'15.1772"N	80°47'7.8856"W	887.72	55.802	1.97	0.02	3.97	
3401.00	29.730	61.690	3186.53	-248.53	521.59	775.62	1701042.65	14309205.07	39°24'15.4001"N	80°47'7.3576"W	934.69	56.080	0.40	-0.09	0.79	
3495.00	30.020	59.460	3268.04	-257.41	544.60	816.39	1701083.41	14309228.06	39°24'15.6264"N	80°47'6.8375"W	981.37	56.294	1.22	0.31	-2.37	
3589.00	30.020	57.570	3349.43	-267.97	569.16	856.49	1701123.49	14309252.61	39°24'15.8682"N	80°47'6.3259"W	1028.35	56.395	1.01	0.00	-2.01	
3684.00	30.060	57.470	3431.67	-279.46	594.69	896.61	1701163.59	14309278.14	39°24'16.1197"N	80°47'5.8141"W	1075.90	56.445	0.07	0.04	-0.11	
3778.00	29.090	57.670	3513.42	-290.63	619.57	935.77	1701202.73	14309303.01	39°24'16.3647"N	80°47'5.3145"W	1122.29	56.491	1.04	-1.03	0.21	
3873.00	29.910	57.380	3596.10	-301.93	644.69	975.23	1701242.18	14309328.12	39°24'16.6120"N	80°47'4.8110"W	1169.06	56.533	0.88	0.88	-0.31	
3968.00	29.680	55.930	3678.55	-314.02	670.64	1014.66	1701281.60	14309354.05	39°24'16.8675"N	80°47'4.3078"W	1216.26	56.537	0.80	-0.24	-1.53	
4062.00	29.890	55.290	3760.13	-326.81	697.01	1053.20	1701320.12	14309380.41	39°24'17.1273"N	80°47'3.8162"W	1262.95	56.503	0.41	0.22	-0.68	
4157.00	29.900	54.760	3842.49	-340.24	724.15	1091.99	1701358.90	14309407.54	39°24'17.3946"N	80°47'3.3211"W	1310.28	56.450	0.28	0.01	-0.56	
4251.00	29.160	54.150	3924.28	-353.81	751.08	1129.69	1701396.58	14309434.47	39°24'17.6599"N	80°47'2.8400"W	1356.59	56.382	0.85	-0.79	-0.69	
4346.00	29.830	53.620	4006.97	-367.97	778.65	1167.47	1701434.35	14309462.02	39°24'17.9315"N	80°47'2.3578"W	1403.32	56.298	0.76	0.71	-0.56	
4441.00	28.760	53.290	4089.82	-382.37	806.33	1204.82	1701471.68	14309489.69	39°24'18.2041"N	80°47'1.8812"W	1449.74	56.207	1.14	-1.13	-0.39	
4535.00	29.440	53.650	4171.95	-396.52	833.54	1241.55	1701508.40	14309516.89	39°24'18.4722"N	80°47'1.4124"W	1495.41	56.124	0.75	0.72	0.38	
4630.00	29.580	54.330	4254.63	-410.59	861.05	1279.41	1701546.24	14309544.39	39°24'18.7432"N	80°47'0.9294"W	1542.17	56.059	0.38	0.15	0.72	
4724.00	30.120	54.680	4336.15	-424.27	888.22	1317.50	1701584.32	14309571.54	39°24'19.0108"N	80°47'0.4432"W	1588.94	56.013	0.60	0.57	0.37	



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Slot	Slot #07			

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4819.00	28.880	54.920	4418.84	-437.71	915.18	1355.72	1701622.52	14309598.50	39°24'19.2764"N	80°46'59.9555"W	1635.71	55.979	1.31	-1.31	0.25	
4914.00	29.680	57.580	4501.70	-449.92	940.98	1394.35	1701661.14	14309624.29	39°24'19.5304"N	80°46'59.4625"W	1682.16	55.987	1.61	0.84	2.80	
5009.00	28.850	59.190	4584.58	-460.46	965.33	1433.90	1701700.66	14309648.62	39°24'19.7702"N	80°46'58.9581"W	1728.56	56.051	1.20	-0.87	1.69	
5103.00	29.710	57.340	4666.57	-471.00	989.52	1472.99	1701739.74	14309672.80	39°24'20.0083"N	80°46'58.4594"W	1774.49	56.108	1.33	0.91	-1.97	
5197.00	29.710	52.480	4748.22	-484.29	1016.28	1511.08	1701777.82	14309699.55	39°24'20.2719"N	80°46'57.9733"W	1821.04	56.077	2.56	0.00	-5.17	
5292.00	30.230	53.650	4830.52	-499.29	1044.79	1549.01	1701815.73	14309728.05	39°24'20.5528"N	80°46'57.4891"W	1868.43	56.001	0.82	0.55	1.23	
5387.00	29.430	55.680	4912.94	-512.99	1072.13	1587.55	1701854.26	14309755.38	39°24'20.8220"N	80°46'56.9973"W	1915.66	55.968	1.36	-0.84	2.14	
5482.00	30.020	60.300	4995.45	-523.97	1097.06	1627.47	1701894.17	14309780.31	39°24'21.0675"N	80°46'56.4879"W	1962.71	56.017	2.49	0.62	4.86	
5576.00	29.260	61.390	5077.15	-532.57	1119.71	1668.07	1701934.74	14309802.95	39°24'21.2904"N	80°46'55.9701"W	2009.03	56.128	0.99	-0.81	1.16	
5671.00	30.510	62.100	5159.51	-540.58	1142.12	1709.76	1701976.42	14309825.34	39°24'21.5109"N	80°46'55.4382"W	2056.14	56.257	1.37	1.32	0.75	
5766.00	29.410	63.390	5241.82	-547.81	1163.85	1751.93	1702018.57	14309847.07	39°24'21.7247"N	80°46'54.9004"W	2103.28	56.403	1.34	-1.16	1.36	
5861.00	30.740	61.810	5324.03	-555.19	1185.77	1794.19	1702060.81	14309868.98	39°24'21.9403"N	80°46'54.3613"W	2150.62	56.540	1.63	1.40	-1.66	
5956.00	30.250	59.950	5405.89	-564.06	1209.22	1836.30	1702102.91	14309892.42	39°24'22.1711"N	80°46'53.8241"W	2198.69	56.635	1.12	-0.52	-1.96	
6051.00	29.270	58.370	5488.36	-574.13	1233.38	1876.79	1702143.38	14309916.57	39°24'22.4089"N	80°46'53.3076"W	2245.79	56.688	1.32	-1.03	-1.66	
6146.00	30.540	56.600	5570.71	-585.61	1258.85	1916.72	1702183.29	14309942.03	39°24'22.6597"N	80°46'52.7981"W	2293.14	56.704	1.63	1.34	-1.86	
6241.00	30.410	54.700	5652.59	-598.77	1286.03	1956.49	1702223.05	14309969.20	39°24'22.9274"N	80°46'52.2906"W	2341.31	56.682	1.02	-0.14	-2.00	
6335.00	28.200	69.430	5734.66	-606.46	1307.61	1996.76	1702263.31	14309990.77	39°24'23.1397"N	80°46'51.7769"W	2386.82	56.780	8.00	-2.35	15.67	
6430.00	29.160	87.060	5818.16	-601.05	1316.70	2040.97	1702307.50	14309999.86	39°24'23.2285"N	80°46'51.2134"W	2428.84	57.172	8.94	1.01	18.56	
6525.00	27.410	101.830	5901.91	-583.78	1313.40	2085.54	1702352.05	14309996.56	39°24'23.1948"N	80°46'50.6456"W	2464.66	57.799	7.58	-1.84	15.55	
6620.00	29.680	116.520	5985.46	-556.06	1298.40	2128.05	1702394.54	14309981.56	39°24'23.0455"N	80°46'50.1046"W	2492.88	58.611	7.75	2.39	15.46	
6714.00	34.680	124.290	6065.03	-518.26	1272.91	2171.01	1702437.49	14309956.09	39°24'22.7926"N	80°46'49.5580"W	2516.67	59.616	6.90	5.32	8.27	
6808.00	39.390	133.380	6140.11	-470.59	1237.32	2214.85	1702481.30	14309920.50	39°24'22.4397"N	80°46'49.0008"W	2537.02	60.810	7.67	5.01	9.67	
6902.00	45.760	142.990	6209.36	-412.24	1189.84	2256.88	1702523.32	14309873.05	39°24'21.9694"N	80°46'48.4667"W	2551.32	62.202	9.67	6.78	10.22	
6910.00†	46.366	143.515	6214.92	-406.77	1185.23	2260.33	1702526.77	14309868.43	39°24'21.9237"N	80°46'48.4230"W	2552.22	62.329	8.93	7.56	6.56	Middlesex: 6910' MD
6997.00	53.090	148.620	6271.14	-342.82	1130.13	2297.22	1702563.64	14309813.36	39°24'21.3784"N	80°46'47.9547"W	2560.16	63.805	8.93	7.73	5.87	
7041.00	57.040	150.070	6296.34	-307.56	1099.11	2315.59	1702582.01	14309782.35	39°24'21.0712"N	80°46'47.7216"W	2563.20	64.608	9.37	8.98	3.30	
7092.00	60.500	151.250	6322.77	-264.73	1061.09	2336.95	1702603.36	14309744.35	39°24'20.6950"N	80°46'47.4507"W	2566.56	65.580	7.07	6.78	2.31	
7139.00	64.730	151.660	6344.39	-223.65	1024.44	2356.89	1702623.29	14309707.71	39°24'20.3323"N	80°46'47.1978"W	2569.90	66.507	9.03	9.00	0.87	
7157.00†	64.928	151.897	6352.04	-207.59	1010.09	2364.59	1702630.99	14309693.36	39°24'20.1902"N	80°46'47.1001"W	2571.29	66.869	1.62	1.10	1.32	Burkett: 7157' MD
7187.00	65.260	152.290	6364.68	-180.75	986.04	2377.32	1702643.72	14309669.33	39°24'19.9523"N	80°46'46.9387"W	2573.70	67.473	1.62	1.11	1.31	



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mammoth Unit 2H
Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

WELLPATH DATA (196 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
7227.00†	67.523	153.229	6380.70	-144.52	953.45	2394.10	1702660.48	14309636.75	39°24'19.6298"N	80°46'46.7260"W	2576.97	68.285	6.05	5.66	2.35	Tully: 7227' MD
7234.00	67.920	153.390	6383.35	-138.11	947.67	2397.01	1702663.39	14309630.97	39°24'19.5725"N	80°46'46.6891"W	2577.54	68.428	6.05	5.67	2.30	
7282.00	69.820	153.380	6400.65	-93.79	907.64	2417.06	1702683.44	14309590.96	39°24'19.1764"N	80°46'46.4348"W	2581.86	69.418	3.96	3.96	-0.02	
7329.00	73.010	154.510	6415.63	-49.83	867.62	2436.62	1702702.99	14309550.96	39°24'18.7805"N	80°46'46.1869"W	2586.49	70.400	7.16	6.79	2.40	
7377.00	74.360	155.530	6429.11	-3.86	825.87	2456.08	1702722.44	14309509.22	39°24'18.3673"N	80°46'45.9404"W	2591.21	71.415	3.47	2.81	2.13	
7384.00†	74.908	155.716	6430.97	2.85	819.72	2458.86	1702725.22	14309503.07	39°24'18.3065"N	80°46'45.9051"W	2591.90	71.563	8.23	7.82	2.65	Marcellus POE: 7384' MD
7424.00	78.040	156.760	6440.32	41.57	784.13	2474.53	1702740.88	14309467.50	39°24'17.9543"N	80°46'45.7066"W	2595.79	72.418	8.23	7.83	2.61	
7472.00	80.910	158.320	6449.09	88.65	740.52	2492.55	1702758.90	14309423.91	39°24'17.5229"N	80°46'45.4783"W	2600.23	73.454	6.78	5.98	3.25	
7519.00	84.850	160.850	6454.92	135.24	696.82	2508.81	1702775.15	14309380.23	39°24'17.0906"N	80°46'45.2726"W	2603.79	74.477	9.94	8.38	5.38	
7566.00	88.090	162.820	6457.81	182.15	652.28	2523.51	1702789.85	14309335.70	39°24'16.6501"N	80°46'45.0867"W	2606.45	75.507	7.85	6.89	3.77	
7660.00	90.030	164.280	6459.35	276.07	562.20	2550.28	1702816.61	14309245.65	39°24'15.7590"N	80°46'44.7485"W	2611.51	77.568	2.72	2.06	1.77	
7755.00	89.940	162.520	6459.38	371.02	471.16	2577.42	1702843.73	14309154.65	39°24'14.8586"N	80°46'44.4056"W	2620.13	79.641	1.86	-0.09	-1.85	
7850.00	89.820	158.890	6459.58	465.99	381.51	2608.81	1702875.11	14309065.04	39°24'13.9718"N	80°46'44.0086"W	2636.55	81.680	3.82	-0.13	-3.82	
7944.00	89.940	152.020	6459.77	559.41	296.06	2647.83	1702914.12	14308979.62	39°24'13.1263"N	80°46'43.5141"W	2664.33	83.620	7.31	0.13	-7.31	
8039.00	90.090	151.980	6459.75	653.11	212.18	2692.43	1702958.70	14308895.77	39°24'12.2962"N	80°46'42.9485"W	2700.78	85.494	0.16	0.16	-0.04	
8134.00	89.750	155.460	6459.88	747.22	127.01	2734.49	1703000.74	14308810.64	39°24'11.4534"N	80°46'42.4155"W	2737.43	87.341	3.68	-0.36	3.66	
8229.00	89.820	157.550	6460.24	841.85	39.89	2772.36	1703038.59	14308723.55	39°24'10.5914"N	80°46'41.9357"W	2772.64	89.176	2.20	0.07	2.20	
8324.00	89.780	160.980	6460.57	936.77	-48.94	2805.99	1703072.21	14308634.76	39°24'9.7127"N	80°46'41.5101"W	2806.41	90.999	3.61	-0.04	3.61	
8419.00	89.850	166.040	6460.88	1031.68	-140.01	2832.94	1703099.16	14308543.73	39°24'8.8120"N	80°46'41.1696"W	2836.40	92.829	5.33	0.07	5.33	
8513.00	89.570	171.010	6461.35	1124.94	-232.10	2851.64	1703117.84	14308451.68	39°24'7.9013"N	80°46'40.9343"W	2861.07	94.653	5.30	-0.30	5.29	
8608.00	89.720	170.400	6461.94	1218.71	-325.85	2866.98	1703133.18	14308357.96	39°24'6.9744"N	80°46'40.7418"W	2885.44	96.484	0.66	0.16	-0.64	
8703.00	90.370	165.780	6461.87	1313.06	-418.78	2886.58	1703152.77	14308265.07	39°24'6.0555"N	80°46'40.4950"W	2916.80	98.255	4.91	0.68	-4.86	
8797.00	89.780	160.200	6461.74	1406.99	-508.63	2914.07	1703180.25	14308175.25	39°24'5.1667"N	80°46'40.1477"W	2958.12	99.901	5.97	-0.63	-5.94	
8892.00	89.850	157.480	6462.05	1501.88	-597.21	2948.36	1703214.52	14308086.70	39°24'4.2904"N	80°46'39.7137"W	3008.23	101.451	2.86	0.07	-2.86	
8986.00	89.630	153.230	6462.48	1595.32	-682.63	2987.55	1703253.70	14308001.32	39°24'3.4452"N	80°46'39.2171"W	3064.54	102.871	4.53	-0.23	-4.52	
9081.00	89.750	150.910	6462.99	1689.03	-766.56	3032.04	1703298.17	14307917.43	39°24'2.6146"N	80°46'38.6530"W	3127.44	104.188	2.45	0.13	-2.44	
9175.00	89.380	151.520	6463.70	1781.51	-848.94	3077.30	1703343.42	14307835.08	39°24'1.7993"N	80°46'38.0790"W	3192.25	105.423	0.76	-0.39	0.65	
9269.00	89.780	155.260	6464.39	1874.55	-932.97	3119.40	1703385.49	14307751.09	39°24'0.9678"N	80°46'37.5454"W	3255.93	106.651	4.00	0.43	3.98	
9364.00	89.850	156.680	6464.70	1969.11	-1019.73	3158.08	1703424.16	14307664.36	39°24'0.1093"N	80°46'37.0554"W	3318.63	107.895	1.50	0.07	1.49	
9458.00	90.120	161.120	6464.73	2062.99	-1107.41	3191.91	1703457.98	14307576.72	39°23'59.2419"N	80°46'36.6272"W	3378.56	109.134	4.73	0.29	4.72	



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mammoth Unit 2H
Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

WELLPATH DATA (196 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
9553.00	90.620	166.890	6464.11	2157.85	-1198.69	3218.08	1703484.14	14307485.47	39°23'58.3391"N	80°46'36.2967"W	3434.08	110.430	6.10	0.53	6.07	
9648.00	89.910	168.990	6463.67	2252.25	-1291.58	3237.92	1703503.98	14307392.61	39°23'57.4205"N	80°46'36.0468"W	3486.02	111.747	2.33	-0.75	2.21	
9742.00	90.220	173.120	6463.57	2344.92	-1384.42	3252.54	1703518.58	14307299.81	39°23'56.5026"N	80°46'35.8636"W	3534.91	113.057	4.41	0.33	4.39	
9837.00	89.780	173.230	6463.57	2437.96	-1478.75	3263.83	1703529.87	14307205.52	39°23'55.5700"N	80°46'35.7228"W	3583.19	114.374	0.48	-0.46	0.12	
9943.00	89.880	169.700	6463.88	2542.34	-1583.55	3279.56	1703545.59	14307100.76	39°23'54.5338"N	80°46'35.5267"W	3641.86	115.774	3.33	0.09	-3.33	
10037.00	90.250	166.080	6463.77	2635.74	-1675.45	3299.27	1703565.30	14307008.90	39°23'53.6251"N	80°46'35.2775"W	3700.31	116.923	3.87	0.39	-3.85	
10132.00	89.720	163.370	6463.80	2730.58	-1767.08	3324.30	1703590.32	14306917.30	39°23'52.7188"N	80°46'34.9616"W	3764.78	117.994	2.91	-0.56	-2.85	
10227.00	90.120	164.650	6463.93	2825.49	-1858.40	3350.47	1703616.47	14306826.01	39°23'51.8156"N	80°46'34.6311"W	3831.36	119.016	1.41	0.42	1.35	
10322.00	88.650	163.720	6464.95	2920.37	-1949.80	3376.36	1703642.35	14306734.66	39°23'50.9116"N	80°46'34.3042"W	3898.91	120.006	1.83	-1.55	-0.98	
10416.00	90.490	162.800	6465.66	3014.32	-2039.81	3403.43	1703669.41	14306644.68	39°23'50.0213"N	80°46'33.9622"W	3967.89	120.936	2.19	1.96	-0.98	
10511.00	89.720	160.410	6465.48	3109.31	-2129.95	3433.40	1703699.38	14306554.58	39°23'49.1297"N	80°46'33.5832"W	4040.41	121.814	2.64	-0.81	-2.52	
10607.00	90.650	160.130	6465.17	3205.29	-2220.31	3465.81	1703731.77	14306464.25	39°23'48.2358"N	80°46'33.1733"W	4116.02	122.645	1.01	0.97	-0.29	
10701.00	90.920	158.740	6463.88	3299.22	-2308.31	3498.83	1703764.78	14306376.29	39°23'47.3653"N	80°46'32.7555"W	4191.67	123.414	1.51	0.29	-1.48	
10796.00	90.800	159.280	6462.46	3394.12	-2397.00	3532.85	1703798.79	14306287.64	39°23'46.4879"N	80°46'32.3249"W	4269.27	124.156	0.58	-0.13	0.57	
10890.00	90.860	159.350	6461.10	3488.04	-2484.93	3566.05	1703831.97	14306199.74	39°23'45.6180"N	80°46'31.9048"W	4346.45	124.870	0.10	0.06	0.07	
10985.00	90.680	158.800	6459.82	3582.95	-2573.65	3599.98	1703865.89	14306111.05	39°23'44.7403"N	80°46'31.4755"W	4425.33	125.561	0.61	-0.19	-0.58	
11080.00	90.920	157.790	6458.49	3677.79	-2661.91	3635.11	1703901.00	14306022.83	39°23'43.8671"N	80°46'31.0308"W	4505.53	126.214	1.09	0.25	-1.06	
11175.00	90.370	157.740	6457.42	3772.58	-2749.84	3671.06	1703936.93	14305934.94	39°23'42.9972"N	80°46'30.5757"W	4586.75	126.835	0.58	-0.58	-0.05	
11269.00	89.850	157.730	6457.24	3866.38	-2836.83	3706.67	1703972.54	14305847.98	39°23'42.1366"N	80°46'30.1248"W	4667.65	127.428	0.55	-0.55	-0.01	
11364.00	90.150	156.130	6457.24	3961.07	-2924.23	3743.90	1704009.75	14305760.62	39°23'41.2718"N	80°46'29.6535"W	4750.56	127.992	1.71	0.32	-1.68	
11459.00	89.540	156.400	6457.50	4055.67	-3011.19	3782.13	1704047.97	14305673.69	39°23'40.4114"N	80°46'29.1692"W	4834.44	128.525	0.70	-0.64	0.28	
11553.00	89.540	157.160	6458.26	4149.35	-3097.57	3819.19	1704085.01	14305587.34	39°23'39.5567"N	80°46'28.6999"W	4917.44	129.044	0.81	0.00	0.81	
11648.00	89.420	156.880	6459.12	4244.06	-3185.03	3856.28	1704122.09	14305499.92	39°23'38.6914"N	80°46'28.2303"W	5001.53	129.554	0.32	-0.13	-0.29	
11742.00	89.600	158.040	6459.92	4337.82	-3271.85	3892.31	1704158.10	14305413.14	39°23'37.8325"N	80°46'27.7741"W	5084.79	130.050	1.25	0.19	1.23	
11836.00	89.540	159.190	6460.83	4431.69	-3359.37	3926.58	1704192.36	14305325.65	39°23'36.9666"N	80°46'27.3403"W	5167.54	130.548	1.23	-0.06	1.22	
11931.00	89.290	160.690	6461.60	4526.65	-3448.60	3959.17	1704224.93	14305236.45	39°23'36.0839"N	80°46'26.9281"W	5250.51	131.057	1.60	-0.26	1.58	
12025.00	89.600	163.640	6462.51	4620.63	-3538.07	3987.95	1704253.71	14305147.02	39°23'35.1989"N	80°46'26.5643"W	5331.20	131.579	3.16	0.33	3.14	
12120.00	89.820	164.120	6462.99	4715.55	-3629.33	4014.33	1704280.07	14305055.79	39°23'34.2962"N	80°46'26.2313"W	5411.74	132.117	0.56	0.23	0.51	
12215.00	90.220	165.000	6462.96	4810.41	-3720.90	4039.62	1704305.35	14304964.26	39°23'33.3906"N	80°46'25.9121"W	5492.14	132.648	1.02	0.42	0.93	
12309.00	90.490	164.860	6462.37	4904.24	-3811.67	4064.06	1704329.78	14304873.53	39°23'32.4929"N	80°46'25.6037"W	5571.84	133.164	0.32	0.29	-0.15	



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Mammoth Unit 2H
Field	Tyler		API	47-095-02606-0000
Facility	Colorado East Pad		Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07			

WELLPATH DATA (196 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
12403.00	91.050	162.620	6461.11	4998.15	-3901.89	4890.38	1704356.09	14304783.34	39°23'31.6005"N	80°46'25.2714"W	5652.96	133.649	2.46	0.60	-2.38	
12498.00	90.150	160.890	6460.11	5093.14	-3992.11	4120.12	1704385.82	14304693.16	39°23'30.7081"N	80°46'24.8955"W	5736.92	134.096	2.05	-0.95	-1.82	
12593.00	89.850	161.030	6460.11	5188.14	-4081.91	4151.11	1704416.80	14304603.39	39°23'29.8198"N	80°46'24.5036"W	5821.83	134.518	0.35	-0.32	0.15	
12687.00	89.450	161.100	6460.69	5282.13	-4170.82	4181.61	1704447.29	14304514.52	39°23'28.9403"N	80°46'24.1179"W	5906.07	134.926	0.43	-0.43	0.07	
12782.00	90.250	163.260	6460.94	5377.12	-4261.26	4210.68	1704476.34	14304424.12	39°23'28.0457"N	80°46'23.7506"W	5990.67	135.342	2.42	0.84	2.27	
12876.00	89.660	162.490	6461.01	5471.09	-4351.09	4238.36	1704504.01	14304334.32	39°23'27.1572"N	80°46'23.4009"W	6074.18	135.752	1.03	-0.63	-0.82	
12971.00	89.720	163.960	6461.53	5566.04	-4442.04	4265.78	1704531.42	14304243.40	39°23'26.2576"N	80°46'23.0546"W	6158.62	136.160	1.55	0.06	1.55	
13066.00	90.030	164.230	6461.73	5660.95	-4533.41	4291.81	1704557.44	14304152.08	39°23'25.3539"N	80°46'22.7259"W	6242.71	136.568	0.43	0.33	0.28	
13161.00	90.250	162.550	6461.50	5755.89	-4624.44	4318.96	1704584.59	14304061.08	39°23'24.4535"N	80°46'22.3830"W	6327.63	136.956	1.78	0.23	-1.77	
13256.00	90.430	161.060	6460.94	5850.89	-4714.68	4348.63	1704614.24	14303970.87	39°23'23.5609"N	80°46'22.0081"W	6413.95	137.313	1.58	0.19	-1.57	
13350.00	90.580	159.610	6460.11	5944.86	-4803.20	4380.26	1704645.85	14303882.40	39°23'22.6853"N	80°46'21.6080"W	6500.56	137.637	1.55	0.16	-1.54	
13445.00	89.780	160.240	6459.81	6039.82	-4892.42	4412.87	1704678.45	14303793.20	39°23'21.8026"N	80°46'21.1956"W	6588.56	137.950	1.07	-0.84	0.66	
13539.00	89.780	161.360	6460.17	6133.81	-4981.19	4443.78	1704709.35	14303704.47	39°23'20.9245"N	80°46'20.8047"W	6675.29	138.263	1.19	0.00	1.19	
13634.00	89.850	162.720	6460.48	6228.81	-5071.56	4473.07	1704738.63	14303614.14	39°23'20.0306"N	80°46'20.4345"W	6762.33	138.588	1.43	0.07	1.43	
13728.00	89.630	162.300	6460.90	6322.79	-5161.21	4501.32	1704766.87	14303524.52	39°23'19.1438"N	80°46'20.0776"W	6848.36	138.907	0.50	-0.23	-0.45	
13824.00	89.720	165.020	6461.45	6418.71	-5253.32	4528.33	1704793.87	14303432.45	39°23'18.2327"N	80°46'19.7366"W	6935.64	139.239	2.83	0.09	2.83	
13919.00	89.940	165.720	6461.73	6513.49	-5345.24	4552.32	1704817.85	14303340.56	39°23'17.3236"N	80°46'19.4340"W	7021.06	139.580	0.77	0.23	0.74	
14013.00	90.150	164.360	6461.66	6607.31	-5436.06	4576.57	1704842.09	14303249.78	39°23'16.4255"N	80°46'19.1281"W	7106.04	139.906	1.44	0.22	-1.43	
14108.00	89.850	164.070	6461.66	6702.20	-5527.48	4602.40	1704867.91	14303158.40	39°23'15.5212"N	80°46'18.8021"W	7192.71	140.218	0.45	-0.32	-0.33	
14202.00	89.510	164.360	6462.18	6796.10	-5617.94	4627.97	1704893.47	14303067.98	39°23'14.6266"N	80°46'18.4793"W	7278.69	140.519	0.48	-0.36	0.31	
14296.00	89.570	163.440	6462.94	6890.01	-5708.24	4654.03	1704919.52	14302977.71	39°23'13.7334"N	80°46'18.1502"W	7365.06	140.809	0.98	0.06	-0.98	
14391.00	89.690	161.980	6463.55	6984.98	-5798.95	4682.27	1704947.74	14302887.04	39°23'12.8362"N	80°46'17.7936"W	7453.28	141.081	1.54	0.13	-1.54	
14485.00	90.030	162.020	6463.78	7078.98	-5888.35	4711.31	1704976.78	14302797.68	39°23'11.9519"N	80°46'17.4265"W	7541.16	141.336	0.36	0.36	0.04	
14581.00	90.090	161.100	6463.68	7174.98	-5979.42	4741.68	1705007.13	14302706.64	39°23'11.0511"N	80°46'17.0427"W	7631.31	141.586	0.96	0.06	-0.96	
14676.00	91.020	160.930	6462.76	7269.97	-6069.24	4772.58	1705038.03	14302616.85	39°23'10.1625"N	80°46'16.6520"W	7720.96	141.820	1.00	0.98	-0.18	
14770.00	89.720	159.500	6462.15	7363.94	-6157.69	4804.40	1705069.83	14302528.44	39°23'9.2875"N	80°46'16.2496"W	7810.21	142.038	2.06	-1.38	-1.52	
14865.00	89.970	159.130	6462.41	7458.87	-6246.56	4837.96	1705103.37	14302439.60	39°23'8.4083"N	80°46'15.8251"W	7900.97	142.242	0.47	0.26	-0.39	
14960.00	90.030	158.070	6462.41	7553.75	-6335.01	4872.62	1705138.02	14302351.19	39°23'7.5332"N	80°46'15.3865"W	7992.17	142.434	1.12	0.06	-1.12	
15054.00	89.940	158.040	6462.43	7647.58	-6422.20	4907.75	1705173.14	14302264.03	39°23'6.6706"N	80°46'14.9420"W	8082.74	142.613	0.10	-0.10	-0.03	
15149.00	89.820	159.530	6462.63	7742.47	-6510.76	4942.13	1705207.50	14302175.51	39°23'5.7945"N	80°46'14.5070"W	8174.02	142.799	1.57	-0.13	1.57	



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mammoth Unit 2H
Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

WELLPATH DATA (196 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
15243.00	90.680	158.850	6462.22	7836.39	-6598.63	4975.52	1705240.88	14302087.68	39°23'4.9252"N	80°46'14.0845"W	8264.24	142.983	1.17	0.91	-0.72	
15338.00	89.940	158.850	6461.71	7931.29	-6687.23	5009.80	1705275.14	14301999.12	39°23'4.0487"N	80°46'13.6509"W	8355.66	143.161	0.78	-0.78	0.00	
15433.00	89.780	159.910	6461.94	8026.22	-6776.14	5043.25	1705308.59	14301910.24	39°23'3.1691"N	80°46'13.2277"W	8446.92	143.341	1.13	-0.17	1.12	
15527.00	90.180	161.060	6461.97	8120.20	-6864.74	5074.65	1705339.97	14301821.68	39°23'2.2926"N	80°46'12.8307"W	8536.78	143.527	1.30	0.43	1.22	
15622.00	90.150	160.640	6461.70	8215.20	-6954.48	5105.82	1705371.12	14301731.97	39°23'1.4049"N	80°46'12.4367"W	8627.52	143.715	0.44	-0.03	-0.44	
15717.00	90.060	159.580	6461.53	8310.17	-7043.81	5138.14	1705403.43	14301642.67	39°23'0.5211"N	80°46'12.0280"W	8718.70	143.891	1.12	-0.09	-1.12	
15812.00	89.880	161.670	6461.58	8405.15	-7133.42	5169.65	1705434.93	14301553.09	39°22'59.6346"N	80°46'11.6295"W	8809.71	144.069	2.21	-0.19	2.20	
15906.00	89.380	163.080	6462.18	8499.13	-7223.01	5198.11	1705463.38	14301463.55	39°22'58.7485"N	80°46'11.2700"W	8899.00	144.259	1.59	-0.53	1.50	
16001.00	89.850	164.820	6462.82	8594.04	-7314.30	5224.37	1705489.64	14301372.29	39°22'57.8456"N	80°46'10.9385"W	8988.50	144.463	1.90	0.49	1.83	
16096.00	89.940	166.590	6462.99	8688.78	-7406.35	5247.83	1705513.08	14301280.27	39°22'56.9352"N	80°46'10.6427"W	9077.10	144.680	1.87	0.09	1.86	
16190.00	90.180	168.050	6462.90	8782.29	-7498.06	5268.46	1705533.71	14301188.60	39°22'56.0283"N	80°46'10.3830"W	9163.93	144.906	1.57	0.26	1.55	
16285.00	90.430	168.100	6462.39	8876.67	-7591.01	5288.09	1705553.33	14301095.69	39°22'55.1091"N	80°46'10.1360"W	9251.34	145.138	0.27	0.26	0.05	
16379.00	90.490	166.830	6461.64	8970.15	-7682.76	5308.49	1705573.72	14301003.98	39°22'54.2018"N	80°46'9.8792"W	9338.36	145.357	1.35	0.06	-1.35	
16473.00	90.680	164.850	6460.68	9063.88	-7773.90	5331.49	1705596.70	14300912.88	39°22'53.3004"N	80°46'9.5893"W	9426.46	145.557	2.12	0.20	-2.11	
16566.00	91.660	163.240	6458.78	9156.76	-7863.29	5357.04	1705622.25	14300823.52	39°22'52.4163"N	80°46'9.2667"W	9514.69	145.734	2.03	1.05	-1.73	
16590.00‡	91.660	163.240	6458.08	9180.74	-7886.26	5363.96	1705629.17	14300800.56	39°22'52.1891"N	80°46'9.1794"W	9537.57	145.778	0.00	0.00	0.00	Projected MD at TD: 16590'

HOLE & CASING SECTIONS - Ref Wellbore: Mammoth Unit 2H AWB Ref Wellpath: Mammoth Unit 2H AWP Proj: 16590'

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	25.00	105.00	80.00	25.00	105.00	0.00	0.00	-0.15	-0.40
17.5in Open Hole	105.00	438.00	333.00	105.00	437.99	-0.15	-0.40	-0.49	-1.44
13.375in Casing Surface	25.00	428.80	403.80	25.00	428.79	0.00	0.00	-0.48	-1.49
12.25in Open Hole	438.00	2770.00	2332.00	437.99	2632.41	-0.49	-1.44	345.91	532.09
9.625in Casing Intermediate	25.00	2755.20	2730.20	25.00	2619.27	0.00	0.00	341.34	527.05
8.5in Open Hole	2770.00	16590.00	13820.00	2632.41	6458.08	345.91	532.09	-7886.26	5363.96
5.5in Casing Production	25.00	16590.00	16565.00	25.00	6458.08	0.00	0.00	-7886.26	5363.96



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Mammoth Unit 2H
Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

TARGETS

Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape
Mammoth Unit 2H - POE - Plat	6393.00	843.66	2464.64	1702731.00	14309527.00	39°24'18.5429"N	80°46'45.8307"W	point
Mammoth Unit 2H - BHL - Plat	6433.00	-10026.67	6103.09	1706368.00	14298661.00	39°22'31.0155"N	80°45'59.8370"W	point
Mammoth Unit 2H - POE - Rev-2	6438.00	839.05	2466.57	1702732.93	14309522.40	39°24'18.4973"N	80°46'45.8063"W	point
Mammoth Unit 2H - BHL - Rev-2	6464.00	-7923.46	5398.98	1705664.17	14300763.37	39°22'51.8205"N	80°46'8.7346"W	point
Mammoth Unit 2H - LP - Rev-2	6464.00	615.25	2541.47	1702807.80	14309298.69	39°24'16.2836"N	80°46'44.8591"W	point

WELLPATH COMPOSITION - Ref Wellbore: Mammoth Unit 2H AWB Ref Wellpath: Mammoth Unit 2H AWP Proj: 16590'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	352.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-352')	Mammoth Unit 2H AWB	
352.00	959.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4">(352')(469'-959')	Mammoth Unit 2H AWB	
959.00	2700.00	BH NaviTrak (Axial)	03 APS EM <12-1/4"> (959')(1050'-2700')	Mammoth Unit 2H AWB	
2700.00	16590.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Cruve <8-1/2">(2700')(2834'-16566')	Mammoth Unit 2H AWB	11/28/2019



Actual Wellpath Report

Mammoth Unit 2H AWP Proj: 16590'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Mammoth Unit 2H
Field	Tyler	API	47-095-02606-0000
Facility	Colorado East Pad	Wellbore	Mammoth Unit 2H AWB
Slot	Slot #07		

COMMENTS
<p>Wellpath general comments API: 47-095-02606-0000 BHI Job #: 110080407B Rig: Patterson 342 Duration: 10/29/2019-12/06/2019 Gyrodata MS Gyro <17-1/2">(100'-352') Gyrodata MS Gyro <12-1/4">(352')(469'-959') APS EM <12-1/4">(959')(1050'-2700') BH AT Cruve <8-1/2">(2700')(2834'-16566') Middlesex: 6910' MD Burkett: 7157' MD Tully: 7227' MD Marcellus POE: 7384' MD Projected MD at TD: 16590'</p>