



Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	Melvin Unit 1H
Field	Tyler	Wellbore	Melvin Unit 1H AWB
Facility	Estlack Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.0
North Reference	Grid	User	Hareluk
Scale	0.999601	Report Generated	19/Apr/2016 at 10:55
Convergence at slot	0.08° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Melvin_Unit_1H_AWP_Proj_17695_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-26.39	15.15	1674819.76	14312806.27	39°24'51.490"N	80°52'41.490"W
Facility Reference Pt			1674804.62	14312832.65	39°24'51.751"N	80°52'41.682"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Frontier 32 (KB) to Facility Vertical Datum	32.00ft
Horizontal Reference Pt	Slot	Frontier 32 (KB) to Mean Sea Level	1173.00ft
Vertical Reference Pt	Frontier 32 (KB)	Frontier 32 (KB) to Mud Line at Slot (Slot #08)	32.00ft
MD Reference Pt	Frontier 32 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.51°

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estack Pad
Slot	Slot #08
Well	Melvin Unit 1H
Wellbore	Melvin Unit 1H AWB

WELLPATH DATA (381 stations) † = interpolated/extrapolated station												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[°]	[ft]
0.001	0.000	233.180	32.00	0.00	0.00	0.00	1674819.76	14312806.27	39.2451.490N	80.5241.490W	0.00	0.00
32.00	0.000	233.180	32.00	0.00	0.00	0.00	1674819.76	14312806.27	39.2451.490N	80.5241.490W	0.00	0.00
100.00	0.440	233.180	100.00	-0.08	-0.16	-0.21	1674819.55	14312806.11	39.2451.488N	80.5241.493W	0.26	233.180
125.00	0.310	232.220	125.00	-0.13	-0.26	-0.34	1674819.42	14312806.01	39.2451.488N	80.5241.494W	0.42	233.027
150.00	0.120	197.766	150.00	-0.17	-0.32	-0.40	1674819.36	14312805.95	39.2451.487N	80.5241.495W	0.51	231.236
175.00	0.130	218.190	175.00	-0.21	-0.37	-0.43	1674819.33	14312805.90	39.2451.486N	80.5241.495W	0.56	229.117
200.00	0.070	232.140	200.00	-0.23	-0.40	-0.46	1674819.30	14312805.87	39.2451.486N	80.5241.496W	0.61	228.686
225.00	0.170	224.320	225.00	-0.24	-0.43	-0.50	1674819.26	14312805.84	39.2451.486N	80.5241.496W	0.66	228.912
250.00	0.060	224.320	250.00	-0.26	-0.47	-0.53	1674819.23	14312805.80	39.2451.485N	80.5241.497W	0.71	228.952
275.00	0.080	212.160	275.00	-0.28	-0.49	-0.55	1674819.21	14312805.78	39.2451.485N	80.5241.497W	0.74	228.479
300.00	0.140	182.070	300.00	-0.32	-0.54	-0.56	1674819.20	14312805.73	39.2451.485N	80.5241.497W	0.78	226.487
325.00	0.070	189.720	325.00	-0.36	-0.58	-0.57	1674819.19	14312805.69	39.2451.484N	80.5241.497W	0.81	224.333
350.00	0.100	202.090	350.00	-0.39	-0.62	-0.58	1674819.18	14312805.65	39.2451.484N	80.5241.497W	0.84	223.185
375.00	0.170	255.820	375.00	-0.40	-0.64	-0.61	1674819.15	14312805.63	39.2451.484N	80.5241.498W	0.89	223.514
400.00	0.080	139.070	400.00	-0.42	-0.66	-0.62	1674819.14	14312805.61	39.2451.484N	80.5241.498W	0.91	223.227
425.00	0.230	225.130	425.00	-0.45	-0.71	-0.65	1674819.11	14312805.56	39.2451.483N	80.5241.498W	0.96	222.290
450.00	0.470	235.160	450.00	-0.50	-0.80	-0.77	1674818.99	14312805.47	39.2451.482N	80.5241.500W	1.11	223.597
475.00	0.170	238.450	475.00	-0.56	-0.94	-0.98	1674818.78	14312805.33	39.2451.481N	80.5241.502W	1.36	226.134
500.00	0.990	239.690	499.99	-0.63	-1.13	-1.30	1674818.46	14312805.14	39.2451.479N	80.5241.507W	1.72	228.914
525.00	1.350	239.970	524.99	-0.73	-1.39	-1.74	1674818.02	14312804.88	39.2451.476N	80.5241.512W	2.23	231.406
550.00	1.720	240.840	549.98	-0.85	-1.72	-2.32	1674817.44	14312804.55	39.2451.473N	80.5241.520W	2.89	233.494
575.00	2.160	242.100	574.96	-0.98	-2.12	-3.07	1674816.69	14312804.15	39.2451.469N	80.5241.529W	3.73	235.313
600.00	2.560	243.160	599.94	-1.12	-2.60	-3.98	1674815.78	14312803.68	39.2451.464N	80.5241.541W	4.75	236.903
625.00	2.890	243.980	624.92	-1.26	-3.12	-5.05	1674814.71	14312803.15	39.2451.459N	80.5241.554W	5.94	238.240
650.00	3.390	244.420	649.88	-1.41	-3.72	-6.28	1674813.48	14312802.55	39.2451.453N	80.5241.570W	7.30	239.360
675.00	4.060	245.520	674.82	-1.57	-4.41	-7.75	1674812.01	14312801.87	39.2451.447N	80.5241.589W	8.92	240.389
700.00	4.600	246.900	699.75	-1.71	-5.17	-9.48	1674810.28	14312801.11	39.2451.439N	80.5241.611W	10.80	241.412
725.00	5.230	248.240	724.66	-1.82	-5.98	-11.46	1674808.30	14312800.29	39.2451.431N	80.5241.636W	12.93	242.438
750.00	5.780	248.770	749.55	-1.90	-6.86	-13.69	1674806.07	14312799.41	39.2451.422N	80.5241.665W	16.31	243.388
775.00	6.390	248.310	774.40	-1.99	-7.83	-16.16	1674803.61	14312798.44	39.2451.413N	80.5241.696W	17.96	244.146

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Melvin Unit 1H AWP Proj: 17695

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	Melvin Unit 1H
Field	Tyler	Wellbore	Melvin Unit 1H AWB
Facility	Estack Pad		

WELLPATH DATA (381 stations)														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
800.00	6.996	247.690	799.23	-2.12	-8.92	-18.86	1674800.91	14312797.35	39°24'51.402"N	80°52'41.730"W	20.86	244.682	2.42	
825.00	7.540	247.380	824.03	-2.28	-10.13	-21.78	1674797.99	14312796.14	39°24'51.390"N	80°52'41.768"W	24.02	245.056	2.21	
850.00	8.170	246.880	848.80	-2.48	-11.46	-24.93	1674794.84	14312794.82	39°24'51.377"N	80°52'41.808"W	27.43	245.313	2.53	
875.00	9.130	246.290	873.51	-2.74	-12.95	-28.38	1674791.39	14312793.32	39°24'51.362"N	80°52'41.852"W	31.19	245.464	3.86	
900.00	10.140	245.100	898.16	-3.10	-14.68	-32.19	1674787.58	14312791.60	39°24'51.345"N	80°52'41.900"W	35.38	245.488	4.12	
925.00	10.790	244.360	922.75	-3.56	-16.62	-36.30	1674783.48	14312789.66	39°24'51.326"N	80°52'41.953"W	39.92	245.401	2.65	
950.00	11.500	243.720	947.27	-4.10	-18.73	-40.64	1674779.14	14312787.54	39°24'51.305"N	80°52'42.008"W	44.75	245.253	2.88	
975.00	12.440	242.780	971.73	-4.76	-21.07	-45.27	1674774.51	14312785.21	39°24'51.282"N	80°52'42.067"W	49.93	245.043	3.84	
1000.00	13.400	241.850	996.10	-5.56	-23.67	-50.22	1674769.56	14312782.61	39°24'51.257"N	80°52'42.130"W	55.51	244.767	3.93	
1025.00	14.170	241.310	1020.38	-6.48	-26.50	-55.46	1674764.33	14312779.78	39°24'51.229"N	80°52'42.197"W	61.46	244.457	3.12	
1050.00	14.880	240.890	1044.58	-7.51	-29.53	-60.94	1674758.84	14312776.75	39°24'51.199"N	80°52'42.267"W	67.72	244.146	2.87	
1075.00	15.400	240.540	1068.71	-8.62	-32.73	-66.64	1674753.15	14312773.56	39°24'51.167"N	80°52'42.340"W	74.24	243.844	2.11	
1100.00	15.560	240.340	1092.80	-9.78	-36.02	-72.44	1674747.35	14312770.27	39°24'51.135"N	80°52'42.414"W	80.90	243.564	0.67	
1125.00	15.950	240.040	1116.66	-11.00	-39.39	-78.33	1674741.46	14312766.89	39°24'51.102"N	80°52'42.489"W	87.68	243.302	1.59	
1150.00	16.510	239.690	1140.87	-12.29	-42.90	-84.38	1674735.42	14312763.39	39°24'51.067"N	80°52'42.566"W	94.66	243.049	2.27	
1175.00	16.930	239.440	1164.81	-13.66	-46.55	-90.58	1674729.22	14312759.74	39°24'51.031"N	80°52'42.645"W	101.84	242.803	1.70	
1200.00	17.240	239.180	1188.71	-15.08	-50.29	-96.89	1674722.91	14312756.00	39°24'50.994"N	80°52'42.725"W	109.17	242.568	1.28	
1225.00	17.640	238.550	1212.56	-16.60	-54.17	-103.31	1674716.49	14312752.12	39°24'50.956"N	80°52'42.807"W	116.65	242.330	1.77	
1250.00	18.290	237.910	1236.34	-18.24	-58.23	-109.86	1674709.94	14312748.05	39°24'50.916"N	80°52'42.891"W	124.34	242.075	2.72	
1275.00	18.770	237.680	1260.04	-19.99	-62.46	-116.58	1674703.22	14312743.83	39°24'50.874"N	80°52'42.976"W	132.26	241.818	1.94	
1300.00	19.100	237.690	1283.69	-21.79	-66.80	-123.44	1674696.37	14312739.50	39°24'50.831"N	80°52'43.064"W	140.36	241.580	1.32	
1325.00	19.530	237.820	1307.28	-23.61	-71.21	-130.43	1674689.38	14312735.09	39°24'50.788"N	80°52'43.153"W	148.61	241.367	1.73	
1350.00	20.030	238.270	1330.81	-25.44	-75.69	-137.61	1674682.20	14312730.61	39°24'50.744"N	80°52'43.245"W	157.05	241.188	2.09	
1375.00	20.370	238.440	1354.27	-27.26	-80.22	-144.96	1674674.86	14312726.08	39°24'50.699"N	80°52'43.338"W	165.68	241.041	1.38	
1400.00	20.950	238.460	1377.66	-29.10	-84.83	-152.48	1674667.34	14312721.47	39°24'50.654"N	80°52'43.434"W	174.49	240.910	2.32	
1425.00	21.780	238.750	1400.94	-30.98	-89.58	-160.25	1674659.57	14312716.73	39°24'50.607"N	80°52'43.533"W	183.59	240.796	3.35	
1450.00	22.420	238.890	1424.11	-32.88	-94.45	-168.30	1674651.53	14312711.86	39°24'50.559"N	80°52'43.636"W	192.99	240.700	2.57	
1475.00	22.720	238.690	1447.20	-34.83	-99.41	-176.50	1674643.33	14312706.90	39°24'50.510"N	80°52'43.740"W	202.57	240.609	1.05	
1500.00	22.930	238.210	1470.24	-36.85	-104.48	-184.75	1674635.08	14312701.83	39°24'50.460"N	80°52'43.846"W	212.25	240.511	1.28	
1525.00	23.230	237.860	1493.24	-38.97	-109.67	-193.07	1674626.77	14312696.64	39°24'50.409"N	80°52'43.952"W	222.04	240.401	1.32	

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estlack Pad
Slot	Slot #08
Melvin Unit 1H	Melvin Unit 1H AWB

WELLPATH DATA (381 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
1550.00	23.410	237.460	1516.20	-41.17	-114.97	-201.43	1674618.41	14312691.35	39°24'50.356"N	80°52'44.058"W	231.93	240.284	0.96	
1575.00	23.540	236.700	1539.13	-43.49	-120.38	-209.79	1674610.06	14312685.94	39°24'50.303"N	80°52'44.165"W	241.87	240.152	1.32	
1600.00	23.620	235.790	1562.04	-45.95	-125.93	-218.10	1674601.75	14312680.39	39°24'50.248"N	80°52'44.271"W	251.85	239.997	1.49	
1625.00	23.640	235.420	1584.95	-48.53	-131.60	-226.37	1674593.48	14312674.73	39°24'50.192"N	80°52'44.376"W	261.84	239.829	0.60	
1650.00	23.620	235.220	1607.85	-51.15	-137.30	-234.61	1674585.24	14312669.03	39°24'50.136"N	80°52'44.482"W	271.83	239.663	0.33	
1675.00	23.600	234.890	1630.76	-53.82	-143.03	-242.82	1674577.04	14312663.30	39°24'50.080"N	80°52'44.586"W	281.81	239.500	0.53	
1700.00	23.370	234.390	1653.69	-56.55	-148.80	-250.94	1674568.92	14312657.53	39°24'50.023"N	80°52'44.690"W	291.74	239.334	1.22	
1725.00	23.030	233.980	1676.66	-59.32	-154.57	-258.94	1674560.92	14312651.76	39°24'49.966"N	80°52'44.792"W	301.56	239.166	1.29	
1750.00	23.030	233.950	1699.66	-62.11	-160.33	-266.86	1674553.01	14312646.01	39°24'49.909"N	80°52'44.893"W	311.32	239.003	0.24	
1775.00	23.110	234.190	1722.66	-64.88	-166.08	-274.79	1674545.08	14312640.26	39°24'49.852"N	80°52'44.994"W	321.08	238.852	0.49	
1800.00	22.980	234.480	1745.67	-67.60	-171.78	-282.74	1674537.13	14312634.56	39°24'49.796"N	80°52'45.095"W	330.84	238.719	0.69	
1825.00	22.820	234.570	1768.74	-70.26	-177.38	-290.59	1674529.29	14312628.97	39°24'49.741"N	80°52'45.195"W	340.45	238.600	2.44	
1850.00	21.800	234.420	1791.90	-72.85	-182.83	-298.24	1674521.64	14312623.57	39°24'49.687"N	80°52'45.293"W	349.82	238.490	2.29	
1875.00	21.660	234.160	1815.12	-75.39	-188.20	-305.79	1674514.10	14312618.15	39°24'49.634"N	80°52'45.389"W	359.06	238.390	0.75	
1900.00	21.620	235.240	1838.36	-77.86	-193.49	-313.34	1674506.56	14312612.86	39°24'49.582"N	80°52'45.486"W	368.26	238.305	0.73	
1925.00	21.520	235.120	1861.60	-80.24	-198.71	-320.93	1674498.96	14312607.64	39°24'49.530"N	80°52'45.582"W	377.46	238.236	0.71	
1950.00	21.540	236.250	1884.85	-82.55	-203.85	-328.55	1674491.34	14312602.50	39°24'49.480"N	80°52'45.680"W	386.66	238.182	0.84	
1975.00	21.380	237.220	1908.12	-84.73	-208.87	-336.20	1674483.70	14312597.49	39°24'49.430"N	80°52'45.777"W	395.79	238.149	1.56	
2000.00	21.330	238.110	1931.39	-86.74	-213.73	-343.91	1674475.98	14312592.62	39°24'49.382"N	80°52'45.875"W	404.92	238.140	1.60	
2025.00	21.520	238.940	1954.66	-88.63	-218.50	-351.73	1674468.17	14312587.86	39°24'49.335"N	80°52'45.975"W	414.07	238.151	0.99	
2050.00	21.680	239.720	1977.90	-90.41	-223.19	-359.64	1674460.26	14312583.17	39°24'49.289"N	80°52'46.076"W	423.27	238.177	1.31	
2075.00	22.130	241.200	2001.10	-92.04	-227.79	-367.76	1674452.15	14312578.57	39°24'49.244"N	80°52'46.179"W	432.59	238.226	2.85	
2100.00	22.620	242.120	2024.22	-93.50	-232.31	-376.13	1674444.78	14312574.06	39°24'49.199"N	80°52'46.286"W	442.09	238.300	2.41	
2125.00	22.890	242.780	2047.27	-94.86	-236.78	-384.71	1674435.21	14312569.59	39°24'49.155"N	80°52'46.396"W	451.73	238.389	1.49	
2150.00	23.140	243.470	2070.28	-96.11	-241.20	-393.43	1674426.49	14312565.17	39°24'49.111"N	80°52'46.507"W	461.47	238.489	1.47	
2175.00	23.460	244.100	2093.24	-97.27	-245.56	-402.30	1674417.62	14312560.81	39°24'49.068"N	80°52'46.620"W	471.32	238.600	1.62	
2200.00	23.730	244.720	2116.15	-98.33	-249.89	-411.32	1674408.60	14312556.48	39°24'49.026"N	80°52'46.735"W	481.28	238.721	1.47	
2225.00	23.840	244.790	2139.03	-99.34	-254.19	-420.44	1674399.49	14312552.19	39°24'48.983"N	80°52'46.851"W	491.31	238.844	0.45	
2250.00	23.790	244.740	2161.90	-100.35	-258.49	-429.57	1674390.36	14312547.88	39°24'48.941"N	80°52'46.968"W	501.35	238.963	0.22	
2275.00	23.770	244.830	2184.78	-101.36	-262.78	-438.69	1674381.24	14312543.59	39°24'48.899"N	80°52'47.084"W	511.38	239.078	0.17	

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VP Operations
Drilling/Wellbore Services

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estack Pad
Slot	Slot #08
Melvin Unit 1H	Melvin Unit 1H AWP

WELLPATH DATA (381 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(°)	(ft)	(°)
2300.00	23.620	244.890	2207.67	-102.35	-267.05	-447.79	1674372.15	14312539.33	39°24'48.85"N	80°52'47.20"W	521.37	239.189
2325.00	23.230	244.580	2230.61	-103.35	-271.29	-456.78	1674363.17	14312535.09	39°24'48.81"N	80°52'47.31"W	531.27	239.293
2350.00	22.710	243.980	2253.63	-104.41	-275.53	-465.57	1674354.38	14312530.85	39°24'48.77"N	80°52'47.42"W	540.99	239.383
2375.00	22.010	243.600	2276.75	-105.52	-279.73	-474.10	1674345.85	14312526.66	39°24'48.73"N	80°52'47.53"W	550.47	239.459
2400.00	21.180	243.300	2299.99	-106.65	-283.84	-482.33	1674337.62	14312522.54	39°24'48.69"N	80°52'47.64"W	559.65	239.524
2425.00	20.590	243.450	2323.35	-107.76	-287.83	-490.30	1674329.66	14312518.55	39°24'48.65"N	80°52'47.74"W	568.54	239.585
2450.00	20.500	243.840	2346.76	-108.81	-291.73	-498.16	1674321.80	14312514.66	39°24'48.61"N	80°52'47.84"W	577.29	239.646
2475.00	20.670	2370.16	-109.81	-295.59	-506.06	1674313.91	14312510.80	14312510.80	39°24'48.57"N	80°52'47.94"W	586.06	239.711
2500.00	20.510	244.500	2393.57	-110.76	-299.40	-513.98	1674305.99	14312506.99	39°24'48.53"N	80°52'48.04"W	594.82	239.778
2525.00	20.230	244.840	2417.00	-111.65	-303.13	-521.84	1674298.13	14312503.27	39°24'48.50"N	80°52'48.14"W	603.49	239.849
2550.00	20.410	244.690	2440.45	-112.52	-306.83	-529.70	1674290.28	14312499.57	39°24'48.46"N	80°52'48.24"W	612.14	239.918
2575.00	20.700	244.600	2463.86	-113.41	-310.59	-537.63	1674282.35	14312495.81	39°24'48.42"N	80°52'48.34"W	620.89	239.985
2600.00	20.840	244.340	2487.23	-114.35	-314.41	-545.63	1674274.35	14312491.99	39°24'48.39"N	80°52'48.44"W	629.73	240.048
2625.00	20.940	244.110	2510.59	-115.32	-318.28	-553.65	1674266.33	14312488.11	39°24'48.35"N	80°52'48.55"W	638.62	240.106
2650.00	20.740	244.000	2533.95	-116.32	-322.17	-561.65	1674258.33	14312484.23	39°24'48.31"N	80°52'48.65"W	647.49	240.161
2675.00	20.300	243.290	2557.37	-117.37	-326.06	-569.50	1674250.48	14312480.34	39°24'48.27"N	80°52'48.75"W	656.24	240.207
2700.00	20.270	242.090	2580.81	-118.55	-330.04	-577.21	1674242.79	14312476.36	39°24'48.23"N	80°52'48.85"W	664.90	240.240
2725.00	20.510	240.310	2604.25	-119.96	-334.24	-584.84	1674235.16	14312472.17	39°24'48.19"N	80°52'48.94"W	673.61	240.252
2750.00	20.810	238.580	2627.64	-121.65	-338.72	-592.43	1674227.57	14312467.68	39°24'48.15"N	80°52'49.04"W	682.43	240.241
2775.00	21.020	237.850	2650.99	-123.55	-343.42	-600.02	1674219.98	14312462.99	39°24'48.10"N	80°52'49.14"W	691.35	240.215
2800.00	21.100	237.820	2674.32	-125.52	-348.20	-607.62	1674212.38	14312458.21	39°24'48.05"N	80°52'49.23"W	700.32	240.185
2825.00	21.170	237.650	2697.64	-127.52	-353.02	-615.24	1674204.76	14312453.39	39°24'48.00"N	80°52'49.33"W	709.33	240.154
2850.00	20.940	237.240	2720.97	-129.55	-357.85	-622.81	1674197.19	14312448.66	39°24'47.96"N	80°52'49.43"W	718.30	240.120
2875.00	20.610	236.880	2744.35	-131.61	-362.67	-630.26	1674189.76	14312443.74	39°24'47.91"N	80°52'49.52"W	727.15	240.082
2900.00	20.730	236.850	2767.74	-133.69	-367.49	-637.65	1674182.37	14312438.92	39°24'47.86"N	80°52'49.62"W	735.97	240.044
2925.00	20.400	236.750	2791.10	-135.80	-372.37	-645.10	1674174.91	14312434.04	39°24'47.81"N	80°52'49.71"W	744.86	240.005
2950.00	21.350	236.690	2814.40	-137.96	-377.33	-652.66	1674167.36	14312429.09	39°24'47.76"N	80°52'49.81"W	753.89	239.966
2975.00	21.580	236.780	2837.67	-140.14	-382.35	-660.31	1674159.72	14312424.07	39°24'47.70"N	80°52'49.90"W	763.02	239.927
3000.00	21.850	237.140	2860.90	-142.30	-387.40	-668.06	1674151.96	14312419.03	39°24'47.67"N	80°52'50.00"W	772.26	239.891
3025.00	22.250	237.660	2884.07	-144.43	-392.45	-675.97	1674144.06	14312413.98	39°24'47.62"N	80°52'50.10"W	781.64	239.862

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estack Pad
Slot	Slot #08
Melvin Unit 1H	Melvin Unit 1H AWB

WELLPATH DATA (381 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(ft)	(ft)	(ft)	(°/100ft)
3050.00	22.280	237.486	2907.20	-146.55	-397.53	-683.97	1674136.07	14312408.90	39.2447,570°N	80.5250,211°W	791.10	239.834
3075.00	22.540	237.310	2930.32	-148.72	-402.67	-691.99	1674128.04	14312403.76	39.2447,519°N	80.5250,314°W	800.62	239.805
3100.00	22.840	237.480	2953.38	-150.90	-407.86	-700.12	1674119.92	14312398.57	39.2447,468°N	80.5250,417°W	810.26	239.776
3125.00	23.170	237.560	2976.40	-153.10	-413.10	-708.35	1674111.69	14312393.33	39.2447,416°N	80.5250,522°W	820.01	239.750
3150.00	23.240	237.550	2999.38	-155.30	-418.38	-716.65	1674103.39	14312388.06	39.2447,364°N	80.5250,628°W	829.84	239.724
3175.00	23.440	237.680	3022.33	-157.57	-423.69	-725.02	1674095.03	14312382.75	39.2447,312°N	80.5250,735°W	839.74	239.699
3200.00	23.840	238.060	3045.24	-159.71	-429.02	-733.57	1674086.55	14312377.42	39.2447,260°N	80.5250,843°W	849.76	239.677
3225.00	24.030	238.310	3068.09	-161.87	-434.36	-742.12	1674077.93	14312372.08	39.2447,207°N	80.5250,953°W	859.90	239.660
3250.00	23.850	238.190	3090.94	-164.03	-439.70	-750.75	1674069.31	14312366.74	39.2447,154°N	80.5251,063°W	870.04	239.643
3275.00	23.860	238.170	3113.80	-166.18	-445.03	-759.34	1674060.72	14312361.41	39.2447,102°N	80.5251,172°W	880.15	239.626
3300.00	23.950	238.080	3136.66	-168.36	-450.38	-767.95	1674052.12	14312356.07	39.2447,049°N	80.5251,282°W	890.27	239.609
3325.00	23.790	237.500	3159.52	-170.58	-455.78	-776.50	1674043.57	14312350.68	39.2446,996°N	80.5251,391°W	900.38	239.589
3350.00	23.610	237.110	3182.41	-172.88	-461.20	-784.96	1674035.17	14312345.25	39.2446,942°N	80.5251,499°W	910.42	239.564
3375.00	23.640	237.120	3205.31	-175.20	-466.64	-793.37	1674026.70	14312339.81	39.2446,888°N	80.5251,606°W	920.43	239.537
3400.00	23.530	236.960	3228.23	-177.53	-472.09	-801.77	1674018.37	14312334.37	39.2446,835°N	80.5251,713°W	930.43	239.510
3425.00	23.180	236.770	3251.18	-179.87	-477.50	-810.07	1674010.02	14312328.96	39.2446,781°N	80.5251,819°W	940.33	239.482
3450.00	23.130	236.870	3274.16	-182.20	-482.88	-818.29	1674001.79	14312323.58	39.2446,728°N	80.5251,924°W	950.15	239.455
3475.00	23.200	236.970	3297.15	-184.51	-488.25	-826.53	1673993.56	14312318.22	39.2446,675°N	80.5252,029°W	959.97	239.429
3500.00	22.850	236.720	3320.16	-186.82	-493.60	-834.72	1673985.37	14312312.87	39.2446,623°N	80.5252,134°W	969.74	239.403
3525.00	22.260	236.090	3343.24	-189.15	-498.90	-842.71	1673977.39	14312307.57	39.2446,570°N	80.5252,235°W	979.32	239.373
3550.00	22.210	235.790	3366.38	-191.53	-504.20	-850.55	1673969.55	14312302.27	39.2446,518°N	80.5252,335°W	988.76	239.341
3575.00	22.260	236.190	3389.53	-193.90	-509.49	-858.39	1673961.72	14312296.98	39.2446,466°N	80.5252,435°W	998.20	239.309
3600.00	22.020	236.510	3412.68	-196.27	-514.71	-866.23	1673953.88	14312291.76	39.2446,414°N	80.5252,535°W	1007.61	239.281
3625.00	21.500	236.670	3435.90	-198.44	-519.82	-873.97	1673946.14	14312286.66	39.2446,364°N	80.5252,634°W	1016.87	239.257
3650.00	21.310	237.990	3459.18	-200.52	-524.74	-881.65	1673938.47	14312281.74	39.2446,315°N	80.5252,732°W	1025.99	239.240
3675.00	21.530	239.550	3482.45	-202.38	-529.47	-889.45	1673930.66	14312277.01	39.2446,269°N	80.5252,831°W	1035.12	239.235
3700.00	21.690	240.420	3505.69	-204.06	-534.08	-897.43	1673922.69	14312272.40	39.2446,223°N	80.5252,933°W	1044.33	239.242
3725.00	21.640	240.630	3528.93	-205.66	-538.62	-905.46	1673914.66	14312267.86	39.2446,178°N	80.5253,036°W	1053.55	239.253
3750.00	21.830	240.730	3552.15	-207.24	-543.15	-913.53	1673906.59	14312263.33	39.2446,134°N	80.5253,138°W	1062.81	239.266
3775.00	22.250	241.000	3575.32	-208.81	-547.72	-921.73	1673898.40	14312258.77	39.2446,089°N	80.5253,243°W	1072.19	239.280
1.73												

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	Melvin Unit 1H
Field	Tyler	Wellbore	Melvin Unit 1H AWB
Facility	Estack Pad		

WELLPATH DATA (381 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[°/100ft]
3800.00	22.540	241.120	3598.44	-210.37	-552.33	-930.06	1673890.07	14312254.16	39°24'46.04"N	80°52'53.34"W	1081.71	239.295
3825.00	22.570	241.160	3621.52	-211.94	-556.96	-938.46	1673881.67	14312249.53	39°24'45.98"N	80°52'53.45"W	1091.29	239.312
3850.00	22.740	241.080	3644.60	-213.51	-561.61	-946.89	1673873.25	14312244.88	39°24'45.95"N	80°52'53.56"W	1100.91	239.327
3875.00	22.650	240.720	3667.66	-215.12	-566.30	-955.32	1673864.82	14312240.20	39°24'45.90"N	80°52'53.67"W	1110.56	239.341
3900.00	22.180	240.060	3690.77	-216.79	-571.01	-963.61	1673856.54	14312235.49	39°24'45.85"N	80°52'53.77"W	1120.09	239.350
3925.00	22.080	239.850	3713.93	-218.52	-575.73	-971.76	1673848.39	14312230.77	39°24'45.81"N	80°52'53.88"W	1129.50	239.355
3950.00	22.140	239.800	3737.09	-220.26	-580.46	-979.90	1673840.26	14312226.05	39°24'45.76"N	80°52'53.98"W	1138.91	239.359
3975.00	22.010	239.740	3760.26	-222.01	-585.19	-988.01	1673832.14	14312221.32	39°24'45.71"N	80°52'54.08"W	1148.31	239.362
4000.00	21.470	239.360	3783.48	-223.77	-589.88	-996.00	1673824.16	14312216.63	39°24'45.67"N	80°52'54.19"W	1157.57	239.364
4025.00	21.410	239.020	3806.75	-225.57	-594.56	-1003.85	1673816.32	14312211.95	39°24'45.62"N	80°52'54.29"W	1166.71	239.363
4050.00	21.730	239.410	3830.00	-227.37	-599.26	-1011.74	1673808.42	14312207.25	39°24'45.58"N	80°52'54.39"W	1175.90	239.361
4075.00	21.700	239.860	3853.23	-229.17	-603.94	-1019.72	1673800.50	14312202.57	39°24'45.53"N	80°52'54.49"W	1185.15	239.364
4100.00	21.480	239.710	3876.47	-230.82	-608.57	-1027.67	1673792.55	14312197.95	39°24'45.48"N	80°52'54.59"W	1194.35	239.367
4125.00	21.770	239.800	3899.71	-232.54	-613.21	-1035.63	1673784.54	14312193.31	39°24'45.43"N	80°52'54.69"W	1203.56	239.370
4150.00	22.280	240.480	3922.89	-234.23	-617.88	-1043.76	1673776.42	14312188.64	39°24'45.39"N	80°52'54.79"W	1212.93	239.376
4175.00	22.570	240.960	3946.00	-235.85	-622.54	-1052.08	1673768.10	14312183.98	39°24'45.35"N	80°52'54.90"W	1222.47	239.386
4200.00	22.590	241.150	3969.08	-237.43	-627.19	-1060.48	1673759.70	14312179.34	39°24'45.30"N	80°52'55.02"W	1232.06	239.399
4225.00	22.850	241.590	3992.14	-238.96	-631.81	-1068.96	1673751.23	14312174.71	39°24'45.26"N	80°52'55.12"W	1241.71	239.415
4250.00	23.410	241.880	4015.13	-240.46	-636.46	-1077.60	1673742.59	14312170.06	39°24'45.21"N	80°52'55.23"W	1251.53	239.433
4275.00	23.620	241.780	4038.05	-241.96	-641.17	-1086.40	1673733.80	14312165.36	39°24'45.16"N	80°52'55.33"W	1261.49	239.452
4300.00	23.800	241.540	4060.94	-243.51	-645.94	-1095.25	1673724.95	14312160.59	39°24'45.12"N	80°52'55.45"W	1271.54	239.469
4325.00	24.050	241.610	4083.80	-245.08	-650.77	-1104.16	1673716.04	14312155.76	39°24'45.07"N	80°52'55.56"W	1281.67	239.486
4350.00	24.170	241.340	4106.62	-246.69	-655.65	-1113.13	1673707.07	14312150.89	39°24'45.02"N	80°52'55.68"W	1291.87	239.502
4375.00	24.040	240.650	4129.44	-248.38	-660.60	-1122.06	1673698.15	14312145.94	39°24'44.97"N	80°52'55.79"W	1302.08	239.513
4400.00	23.870	240.380	4152.28	-250.14	-665.59	-1130.90	1673689.31	14312140.94	39°24'44.92"N	80°52'55.91"W	1312.23	239.521
4425.00	23.640	240.510	4175.16	-251.90	-670.56	-1139.66	1673680.56	14312135.98	39°24'44.87"N	80°52'56.02"W	1322.30	239.528
4450.00	22.980	240.600	4198.12	-253.61	-675.42	-1148.27	1673671.95	14312131.12	39°24'44.83"N	80°52'56.13"W	1332.19	239.536
4475.00	22.090	239.800	4221.21	-255.32	-680.18	-1156.59	1673663.63	14312126.36	39°24'44.78"N	80°52'56.23"W	1341.77	239.540
4500.00	21.840	239.390	4244.40	-257.09	-684.92	-1164.65	1673655.57	14312121.63	39°24'44.73"N	80°52'56.34"W	1351.12	239.541
4525.00	21.850	239.170	4267.60	-258.90	-689.67	-1172.65	1673647.58	14312116.88	39°24'44.68"N	80°52'56.44"W	1360.42	239.539

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estack Pad
Slot	Slot #08
Melvin Unit 1H	Melvin Unit 1H AWB

REFERENCE WELLPATH IDENTIFICATION

MO	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
5300.00	24.850	240.160	4968.04	-321.69	-841.35	-1413.05	1673407.28	14311965.26	39°24'43.193"N	80°52'59.623"W	1644.56	1740	239.230	1.40
5325.00	24.720	240.030	5010.73	-323.58	-846.57	-1422.13	1673398.20	14311960.04	39°24'43.142"N	80°52'59.623"W	1655.04	1740	239.235	0.56
5350.00	24.550	240.040	5033.46	-325.47	-851.78	-1431.16	1673389.17	14311954.83	39°24'43.090"N	80°52'59.739"W	1665.46	1740	239.240	0.68
5375.00	24.950	240.130	5056.16	-327.37	-857.00	-1440.23	1673380.10	14311949.62	39°24'43.039"N	80°52'59.854"W	1675.92	1740	239.246	1.61
5400.00	25.470	240.260	5078.78	-329.28	-862.29	-1449.47	1673370.87	14311944.33	39°24'42.987"N	80°52'59.972"W	1686.57	1740	239.252	2.09
5425.00	25.650	240.330	5101.33	-331.19	-867.64	-1458.84	1673361.50	14311938.98	39°24'42.934"N	80°53'00.092"W	1697.35	1740	239.258	0.73
5450.00	25.760	240.500	5123.86	-333.09	-872.99	-1468.27	1673352.08	14311933.63	39°24'42.881"N	80°53'00.212"W	1708.20	1740	239.266	0.53
5475.00	26.270	240.710	5146.33	-334.97	-878.37	-1477.83	1673342.53	14311928.25	39°24'42.828"N	80°53'00.334"W	1719.16	1740	239.274	2.07
5500.00	26.310	240.770	5168.74	-336.85	-883.78	-1487.49	1673332.87	14311922.84	39°24'42.775"N	80°53'00.457"W	1730.23	1740	239.284	0.19
5525.00	25.670	240.410	5191.21	-338.74	-889.16	-1497.03	1673323.33	14311917.46	39°24'42.722"N	80°53'00.578"W	1741.18	1740	239.292	2.64
5550.00	24.660	239.690	5213.84	-340.67	-894.47	-1506.24	1673314.12	14311912.16	39°24'42.669"N	80°53'00.696"W	1751.81	1740	239.296	4.22
5575.00	23.580	238.480	5236.66	-342.66	-899.71	-1515.01	1673305.36	14311906.92	39°24'42.617"N	80°53'00.808"W	1762.02	1740	239.295	4.75
5600.00	22.540	237.260	5259.66	-344.83	-904.92	-1523.30	1673297.07	14311901.71	39°24'42.566"N	80°53'00.913"W	1771.81	1740	239.287	4.58
5625.00	21.930	236.270	5282.80	-347.08	-910.10	-1531.21	1673289.16	14311896.53	39°24'42.515"N	80°53'01.014"W	1781.26	1740	239.274	2.86
5650.00	22.040	236.040	5305.98	-349.40	-915.32	-1538.99	1673281.39	14311891.32	39°24'42.464"N	80°53'01.113"W	1790.61	1740	239.258	0.56
5675.00	22.570	236.260	5329.11	-351.75	-920.60	-1546.87	1673273.51	14311886.04	39°24'42.411"N	80°53'01.214"W	1800.08	1740	239.241	2.15
5700.00	22.890	236.240	5352.17	-354.13	-925.97	-1554.90	1673265.49	14311880.67	39°24'42.359"N	80°53'01.316"W	1809.73	1740	239.225	1.28
5725.00	22.910	236.520	5375.20	-356.51	-931.35	-1563.00	1673257.39	14311875.29	39°24'42.305"N	80°53'01.420"W	1819.45	1740	239.210	0.44
5750.00	22.990	237.990	5398.22	-358.74	-936.63	-1571.20	1673249.19	14311870.02	39°24'42.253"N	80°53'01.524"W	1829.19	1740	239.200	2.31
5775.00	23.170	238.870	5421.22	-360.79	-941.76	-1579.55	1673240.85	14311864.89	39°24'42.203"N	80°53'01.631"W	1838.99	1740	239.196	1.56
5800.00	22.930	238.970	5444.22	-362.76	-946.81	-1587.93	1673232.47	14311859.84	39°24'42.153"N	80°53'01.737"W	1848.78	1740	239.194	0.97
5825.00	22.620	239.010	5467.27	-364.69	-951.80	-1596.22	1673224.18	14311854.85	39°24'42.104"N	80°53'01.843"W	1858.45	1740	239.193	1.24
5850.00	23.040	239.260	5490.32	-366.60	-956.77	-1604.55	1673215.85	14311849.88	39°24'42.055"N	80°53'01.949"W	1868.15	1740	239.193	1.72
5875.00	23.110	239.510	5513.32	-368.49	-961.76	-1612.98	1673207.42	14311844.89	39°24'42.005"N	80°53'02.057"W	1877.95	1740	239.194	0.48
5900.00	22.680	239.380	5536.35	-370.36	-966.71	-1621.36	1673199.05	14311839.95	39°24'41.957"N	80°53'02.164"W	1887.68	1740	239.195	1.73
5925.00	22.440	239.530	5559.43	-372.20	-971.58	-1629.62	1673190.79	14311835.08	39°24'41.909"N	80°53'02.269"W	1897.27	1740	239.197	0.99
5950.00	22.580	240.100	5582.53	-373.98	-976.39	-1637.89	1673182.52	14311830.27	39°24'41.861"N	80°53'02.375"W	1906.84	1740	239.200	1.04
5975.00	22.540	240.370	5605.62	-375.69	-981.15	-1646.22	1673174.20	14311825.51	39°24'41.814"N	80°53'02.481"W	1916.43	1740	239.205	0.44
6000.00	21.990	240.140	5628.75	-377.37	-985.85	-1654.44	1673165.98	14311820.81	39°24'41.768"N	80°53'02.586"W	1925.90	1740	239.210	2.23
6025.00	21.740	240.530	5651.95	-379.02	-990.46	-1662.53	1673157.89	14311816.20	39°24'41.722"N	80°53'02.689"W	1935.21	1740	239.215	1.16

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Actual Wellpath Report

Melvin Unit 1H AWP Proj; 17695

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estack Pad
Slot	Slot #8
Melvin Unit 1H	Well
Melvin Unit 1H AWB	Wellbore

WELLPATH DATA (381 stations) † = interpolated/extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Dist	Closure	Dir	DLS	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
6050.00	22.190	240.630	5675.14	-380.63	-995.06	-1670.68	1673749.75	14311811.61	39°24'41.67"N	80°53'02.79"W	1944.56	239.222	1.81			
6060.13	22.500	240.560	5684.51	-381.29	-996.95	-1674.03	1673146.40	14311809.72	39°24'41.65"N	80°53'02.83"W	1948.41	239.225	3.07			
6277.00	22.940	239.970	5884.55	-396.19	-1038.49	-1746.76	1673073.70	14311768.19	39°24'41.24"N	80°53'03.76"W	2032.15	239.267	0.23	BHI AT Curve [SS+MSA] <8-1/2"> (6060.13)(6277-17657)		
6328.00	21.770	239.130	5931.71	-399.88	-1048.32	-1763.49	1673056.98	14311758.37	39°24'41.152"N	80°53'03.976"W	2051.55	239.270	2.38			
6374.00	22.230	242.740	5974.37	-402.74	-1056.68	-1778.54	1673041.93	14311750.01	39°24'41.069"N	80°53'04.168"W	2068.77	239.284	3.10			
6423.00	22.300	254.300	6019.74	-403.38	-1063.45	-1795.74	1673024.74	14311743.25	39°24'41.003"N	80°53'04.387"W	2087.01	239.366	8.93			
6468.00	22.300	263.850	6061.38	-400.84	-1066.67	-1812.45	1673008.03	14311740.02	39°24'40.971"N	80°53'04.600"W	2103.04	239.522	8.04			
6517.00	22.760	276.570	6106.67	-394.53	-1066.59	-1831.12	1672989.37	14311740.11	39°24'40.972"N	80°53'04.838"W	2119.11	239.780	9.97			
6563.00	24.600	288.670	6148.82	-384.70	-1062.50	-1849.05	1672971.45	14311744.20	39°24'41.013"N	80°53'05.066"W	2132.58	240.117	11.27			
6614.00	27.710	298.160	6194.61	-369.37	-1053.50	-1869.57	1672950.94	14311753.19	39°24'41.102"N	80°53'05.328"W	2145.96	240.599	10.20			
6655.00	30.593	304.164	6230.43	-353.91	-1043.14	-1886.62	1672933.90	14311763.55	39°24'41.205"N	80°53'05.544"W	2155.80	241.061	10.01	Sycamore: 6655 MD		
6657.00	30.740	304.430	6232.15	-353.09	-1042.56	-1887.46	1672933.06	14311764.12	39°24'41.210"N	80°53'05.555"W	2156.26	241.085	10.01			
6708.00	35.060	310.510	6273.29	-330.76	-1026.33	-1908.50	1672912.02	14311780.35	39°24'41.371"N	80°53'05.823"W	2166.96	241.730	11.09			
6752.00	38.590	314.340	6310.11	-306.43	-1007.71	-1928.82	1672891.71	14311798.96	39°24'41.555"N	80°53'06.082"W	2176.19	242.415	9.15			
6802.00	43.040	317.420	6348.15	-276.94	-984.40	-1951.37	1672869.17	14311822.26	39°24'41.786"N	80°53'06.369"W	2185.61	243.231	8.50			
6848.00	45.830	320.410	6381.19	-247.18	-960.27	-1972.38	1672848.17	14311846.38	39°24'42.025"N	80°53'06.636"W	2193.72	244.040	8.83			
6873.00	47.700	322.685	6398.31	-229.96	-946.01	-1983.70	1672836.86	14311860.64	39°24'42.166"N	80°53'06.780"W	2197.72	244.504	9.99	Middlesex: 6873 MD		
6899.00	49.690	324.910	6415.47	-211.25	-930.25	-1995.23	1672825.33	14311876.40	39°24'42.322"N	80°53'06.926"W	2201.43	245.003	9.99			
6942.00	52.850	328.770	6442.38	-178.67	-902.16	-2013.55	1672807.02	14311904.47	39°24'42.600"N	80°53'07.159"W	2206.42	245.865	10.15			
6990.00	56.520	332.210	6470.13	-140.11	-868.08	-2032.81	1672787.77	14311938.54	39°24'42.937"N	80°53'07.404"W	2210.40	246.876	9.62			
7037.00	61.053	334.827	6494.48	-100.22	-832.11	-2050.71	1672769.88	14311974.50	39°24'43.292"N	80°53'07.632"W	2213.10	247.914	10.76	Burkett 7037 MD		
7086.00	63.690	336.180	6517.19	-56.97	-792.59	-2068.69	1672751.90	14312014.00	39°24'43.683"N	80°53'07.860"W	2215.33	249.036	5.81			
7099.00	64.757	336.339	6522.84	-45.30	-781.87	-2073.39	1672747.20	14312024.72	39°24'43.789"N	80°53'07.920"W	2215.91	249.339	8.57	Tully: 7099 MD		
7133.00	67.550	337.450	6536.59	-14.26	-753.25	-2085.54	1672735.06	14312053.33	39°24'44.072"N	80°53'08.074"W	2217.40	250.142	8.57			
7184.00	70.940	338.690	6554.66	33.38	-709.01	-2103.34	1672717.26	14312097.54	39°24'44.449"N	80°53'08.300"W	2219.32	251.372	7.02	Marcellus Hot: 7177 MD		
7222.00	76.430	340.620	6566.73	74.62	-670.33	-2117.67	1672702.94	14312136.21	39°24'44.892"N	80°53'08.482"W	2221.23	252.435	13.47			
7276.00	82.260	341.720	6575.79	122.75	-624.77	-2133.20	1672687.41	14312181.75	39°24'45.343"N	80°53'08.679"W	2222.81	253.676	12.10			
7323.00	87.300	341.740	6580.06	169.53	-580.34	-2147.87	1672672.75	14312226.16	39°24'45.822"N	80°53'08.866"W	2224.89	254.880	10.72			

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695

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Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estack Pad
Slot	Slot #08
Melvin Unit 1H	Melvin Unit 1H AWB

WELLPATH DATA (381 stations)														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft/100ft)
7362.00	90.090	341.150	6580.95	208.51	-543.38	-2160.28	1672660.35	14312263.11	39°24'46.14"N	80°53'09.23"W	2227.57	255.881	7.31	
7417.00	89.970	338.700	6580.92	263.51	-491.73	-2179.15	1672641.48	14312314.74	39°24'46.65"N	80°53'09.26"W	2233.95	257.284	4.46	
7511.00	89.570	338.510	6581.30	357.45	-404.21	-2213.45	1672607.20	14312402.23	39°24'47.524"N	80°53'09.698"W	2250.05	259.651	0.47	
7606.00	89.330	339.040	6582.21	452.41	-315.65	-2247.84	1672572.82	14312490.74	39°24'48.399"N	80°53'10.135"W	2269.89	262.006	0.61	
7701.00	89.360	338.550	6583.30	547.36	-227.09	-2282.20	1672538.48	14312579.27	39°24'49.275"N	80°53'10.571"W	2293.47	264.317	0.52	
7796.00	89.640	343.250	6584.13	642.32	-137.35	-2313.27	1672507.41	14312668.97	39°24'50.162"N	80°53'10.966"W	2317.35	266.602	4.96	
7891.00	90.260	344.340	6584.21	737.17	-6.13	-2339.78	1672480.91	14312760.16	39°24'51.064"N	80°53'11.302"W	2340.24	268.871	1.32	
7986.00	90.070	341.020	6583.99	832.09	44.55	-2368.06	1672452.65	14312850.80	39°24'51.961"N	80°53'11.661"W	2368.48	271.078	3.50	
8081.00	89.180	338.690	6584.66	927.07	133.73	-2400.78	1672419.95	14312939.95	39°24'52.843"N	80°53'12.076"W	2404.50	273.188	2.60	
8175.00	89.300	337.340	6585.90	1020.97	220.89	-2435.96	1672384.77	14313027.07	39°24'53.705"N	80°53'12.523"W	2445.96	275.181	1.44	
8269.00	89.400	339.630	6586.97	1114.90	308.33	-2470.43	1672350.32	14313114.47	39°24'54.569"N	80°53'12.961"W	2489.60	277.114	2.44	
8363.00	89.150	341.730	6588.16	1208.89	397.02	-2501.53	1672319.24	14313203.13	39°24'55.446"N	80°53'13.356"W	2532.84	279.018	2.25	
8459.00	89.180	340.100	6589.56	1304.87	487.73	-2532.91	1672287.86	14313293.80	39°24'56.343"N	80°53'13.754"W	2579.44	280.899	1.70	
8554.00	89.300	337.520	6590.82	1399.81	576.29	-2567.24	1672253.54	14313382.33	39°24'57.219"N	80°53'14.190"W	2631.13	282.652	2.72	
8650.00	89.270	336.390	6592.07	1495.62	664.62	-2604.82	1672215.98	14313470.63	39°24'58.092"N	80°53'14.668"W	2688.27	284.314	1.78	
8745.00	89.430	339.130	6593.20	1590.50	752.60	-2640.62	1672180.20	14313558.57	39°24'58.962"N	80°53'15.122"W	2745.77	285.908	3.10	
8840.00	89.270	341.140	6594.27	1685.44	841.13	-2675.07	1672146.76	14313647.06	39°24'59.838"N	80°53'15.560"W	2804.19	287.455	1.26	
8935.00	89.490	338.890	6595.30	1780.38	929.52	-2709.86	1672110.98	14313735.42	39°25'00.712"N	80°53'16.002"W	2864.85	288.933	0.82	
9030.00	90.900	347.720	6594.98	1875.17	1020.42	-2737.12	1672083.73	14313826.28	39°25'01.670"N	80°53'16.348"W	2921.15	290.446	9.41	
9126.00	90.620	348.640	6593.70	1970.30	1114.38	-2756.79	1672064.08	14313920.20	39°25'02.539"N	80°53'16.597"W	2973.50	292.010	1.00	
9220.00	90.560	345.340	6592.74	2063.68	1205.95	-2777.94	1672042.93	14314011.73	39°25'03.445"N	80°53'16.865"W	3028.41	293.466	3.51	
9315.00	90.440	334.560	6591.36	2158.54	1295.05	-2810.47	1672010.42	14314100.80	39°25'04.326"N	80°53'17.278"W	3094.49	294.740	11.35	
9410.00	90.220	333.980	6591.36	2252.97	1380.63	-2851.71	1671969.20	14314186.35	39°25'05.172"N	80°53'17.802"W	3168.34	295.834	0.65	
9506.00	90.280	341.720	6590.94	2348.79	1469.48	-2887.87	1671933.04	14314275.16	39°25'06.051"N	80°53'18.262"W	3240.24	296.969	8.06	
9601.00	90.840	343.240	6590.01	2443.73	1560.06	-2916.47	1671904.46	14314366.71	39°25'06.946"N	80°53'18.624"W	3307.51	298.143	1.71	
9695.00	89.970	336.880	6588.47	2533.62	1739.03	-2979.94	1671841.01	14314454.61	39°25'08.716"N	80°53'19.430"W	3450.26	300.267	4.26	
9791.00	89.660	340.920	6588.86	2637.68	1649.49	-2945.39	1671875.55	14314455.10	39°25'07.830"N	80°53'18.992"W	3375.82	299.250	2.49	
9885.00	90.440	337.900	6588.18	2727.48	1825.81	-3016.08	1671804.89	14314631.35	39°25'09.574"N	80°53'19.889"W	3525.66	301.189	1.22	
9980.00	89.950	340.220	6587.86	2822.44	1914.53	-3050.03	1671770.95	14314720.03	39°25'10.451"N	80°53'20.321"W	3601.12	302.117	2.50	
10074.00	89.910	340.350	6587.97	2916.44	2003.02	-3081.74	1671739.26	14314808.48	39°25'11.326"N	80°53'20.723"W	3675.49	303.022	0.14	

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Actual Wellpath Report

Meivin Unit 1H AWP Proj: 17695

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION
Area	Tyler County, WV
Field	Tyler
Facility	Estlack Pad
Slot	Slot #08
Meivin Unit 1H	Meivin Unit 1H AWB

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(N)	(W)	(ft)	(°)	(ft)	(/100ft)
10769.00	90.100	339.050	6587.96	3011.43	2092.11	-3114.70	1671706.31	14314897.55	39.2512.207 N	80.5321.142 W	3752.10	303.889	1.38	
10265.00	89.700	337.270	6588.13	3107.55	2181.22	-3150.41	1671670.61	14314986.62	39.2513.088 N	80.5321.596 W	3831.81	304.697	1.90	
10360.00	89.980	338.830	6588.40	3202.25	2269.33	-3185.92	1671635.12	14315074.69	39.2513.960 N	80.5322.047 W	3911.51	305.462	1.67	
10455.00	89.910	340.280	6588.49	3297.24	2358.34	-3219.10	1671601.95	14315163.67	39.2514.840 N	80.5322.468 W	3990.54	306.227	1.53	
10550.00	89.790	342.270	6588.74	3392.23	2448.31	-3249.60	1671571.46	14315253.60	39.2515.729 N	80.5322.855 W	4068.67	306.995	2.10	
10645.00	89.760	344.740	6589.11	3487.09	2539.39	-3276.57	1671544.50	14315344.65	39.2516.630 N	80.5323.198 W	4145.41	307.776	2.60	
10739.00	90.100	346.810	6589.22	3580.69	2630.51	-3299.67	1671521.42	14315435.72	39.2517.531 N	80.5323.490 W	4219.88	308.562	2.23	
10834.00	90.680	349.460	6588.58	3675.22	2722.73	-3322.43	1671498.66	14315527.91	39.2518.442 N	80.5323.779 W	4295.56	309.335	1.55	
10930.00	90.870	347.170	6587.28	3771.06	2814.80	-3349.55	1671471.55	14315619.94	39.2519.353 N	80.5324.123 W	4375.22	310.042	3.91	
11024.00	90.380	339.480	6586.25	2903.44	-3380.78	-3380.78	1671440.34	14315708.55	39.2520.229 N	80.5324.520 W	4456.42	310.656	2.43	
11118.00	90.380	338.710	6585.63	3959.02	2991.25	-3414.32	1671406.81	14315796.33	39.2521.097 N	80.5324.946 W	4539.29	311.221	0.82	
11213.00	89.820	337.120	6585.46	4053.91	3079.28	-3450.04	1671371.11	14315884.32	39.2521.968 N	80.5325.400 W	4624.36	311.750	1.77	
11308.00	89.760	337.560	6585.80	4146.77	3165.10	-3485.86	1671335.29	14315970.10	39.2522.816 N	80.5325.855 W	4708.41	312.239	0.48	
11402.00	89.510	341.550	6586.42	4242.74	3255.03	-3519.39	1671301.78	14316060.00	39.2523.706 N	80.5326.281 W	4793.89	312.765	4.16	
11496.00	89.820	344.380	6586.97	4336.64	3344.90	-3546.93	1671274.26	14316149.83	39.2524.594 N	80.5326.630 W	4875.35	313.321	3.03	
11592.00	89.880	342.040	6587.22	4432.53	3436.80	-3574.65	1671246.54	14316241.69	39.2525.503 N	80.5326.982 W	4958.80	313.874	2.44	
11687.00	89.700	336.920	6587.57	4527.48	3525.74	-3607.94	1671213.26	14316330.60	39.2526.382 N	80.5327.405 W	5044.61	314.340	5.39	
11782.00	89.670	335.770	6588.09	4622.22	3612.76	-3646.06	1671175.16	14316417.58	39.2527.243 N	80.5327.889 W	5132.81	314.737	1.21	
11877.00	89.820	339.250	6588.51	4717.08	3700.52	-3682.39	1671138.84	14316505.30	39.2528.111 N	80.5328.351 W	5220.52	315.141	3.67	
11971.00	90.000	344.750	6588.66	4811.01	3789.88	-3711.43	1671109.82	14316594.63	39.2528.994 N	80.5328.720 W	5304.52	315.599	5.85	
12066.00	90.130	343.720	6588.55	4905.81	3881.31	-3737.24	1671084.02	14316686.02	39.2529.898 N	80.5329.047 W	5388.09	316.083	1.09	
12256.00	90.100	340.020	6588.71	5095.69	4062.18	-3795.30	1671025.99	14316866.83	39.2531.686 N	80.5329.784 W	5559.28	316.945	2.67	
12351.00	89.790	334.450	6588.80	5190.50	4149.75	-3832.04	1670989.25	14316954.36	39.2532.552 N	80.5330.251 W	5648.45	317.279	5.87	
12447.00	90.030	334.390	6588.95	5285.96	4236.34	-3873.49	1670947.82	14317040.91	39.2533.409 N	80.5330.778 W	5740.25	317.562	0.26	
12541.00	89.880	338.080	6589.02	5379.68	4322.35	-3911.37	1670909.96	14317126.89	39.2534.259 N	80.5331.259 W	5829.37	317.858	3.93	
12636.00	90.130	343.750	6589.02	5474.64	4412.10	-3942.41	1670878.92	14317216.60	39.2535.147 N	80.5331.653 W	5916.86	318.218	5.97	
12730.00	90.000	345.180	6588.91	5568.41	4502.66	-3967.59	1670853.76	14317307.12	39.2536.042 N	80.5331.973 W	6001.31	318.615	1.53	
12825.00	89.880	343.140	6589.01	5663.21	4594.05	-3993.52	1670827.84	14317398.48	39.2536.945 N	80.5332.302 W	6087.16	319.000	2.15	
12920.00	90.000	341.740	6589.11	5758.16	4684.62	-4022.18	1670799.19	14317489.01	39.2537.841 N	80.5332.666 W	6174.43	319.351	1.48	

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	Melvin Unit 1H
Field	Tyler	Wellbore	Melvin Unit 1H AWB
Facility	Estack Pad		

WELLPATH DATA (381 stations)														
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Comments
13013.00	89.820	341.330	6589.25	5851.14	4772.83	-4051.64	1670769.75	14317577.19	39°25'38.713"N	80°53'33.040"W	6260.64	319.672	0.48	
13108.00	89.790	340.590	6589.58	5946.14	4862.63	-4082.63	1670738.77	14317666.95	39°25'39.601"N	80°53'33.433"W	6349.25	319.983	0.78	
13203.00	89.910	341.440	6589.83	6041.13	4952.46	-4113.53	1670707.88	14317756.75	39°25'40.489"N	80°53'33.826"W	6438.01	320.287	0.90	
13297.00	90.340	343.250	6589.62	6135.08	5042.03	-4142.04	1670679.38	14317846.28	39°25'41.375"N	80°53'34.188"W	6525.22	320.597	1.98	
13392.00	90.310	345.490	6589.08	6229.86	5133.51	-4167.63	1670653.80	14317937.72	39°25'42.279"N	80°53'34.513"W	6612.27	320.929	2.36	
13487.00	90.160	343.120	6588.69	6324.64	5224.66	-4193.33	1670628.11	14318029.14	39°25'43.183"N	80°53'34.839"W	6699.57	321.251	2.50	
13582.00	90.000	341.810	6588.56	6419.58	5315.54	-4221.95	1670599.50	14318119.68	39°25'44.079"N	80°53'35.202"W	6788.22	321.541	1.39	
13677.00	90.880	339.540	6587.85	6514.57	5405.18	-4253.39	1670568.08	14318209.29	39°25'44.965"N	80°53'35.601"W	6878.03	321.800	2.56	
13772.00	89.910	337.320	6587.21	6609.50	5493.52	-4288.31	1670533.17	14318297.59	39°25'45.839"N	80°53'36.045"W	6969.10	322.024	2.54	
13867.00	89.880	338.170	6587.38	6704.39	5581.44	-4324.29	1670497.21	14318385.48	39°25'46.708"N	80°53'36.502"W	7060.59	322.233	0.90	
13962.00	89.690	337.230	6587.74	6799.27	5669.34	-4360.33	1670461.77	14318473.33	39°25'47.577"N	80°53'36.960"W	7152.20	322.436	1.01	
14057.00	90.160	337.020	6587.86	6894.11	5756.86	-4397.26	1670424.26	14318560.83	39°25'48.443"N	80°53'37.430"W	7244.13	322.626	0.54	
14152.00	89.970	337.520	6587.76	6988.96	5844.49	-4433.97	1670387.57	14318648.41	39°25'49.309"N	80°53'37.896"W	7336.08	322.814	0.56	
14246.00	89.790	338.660	6587.95	7082.87	5931.70	-4469.05	1670352.51	14318735.59	39°25'50.172"N	80°53'38.342"W	7426.80	323.005	1.23	
14341.00	89.760	340.500	6588.33	7177.85	6020.72	-4502.19	1670319.37	14318824.58	39°25'51.052"N	80°53'38.763"W	7517.90	323.212	1.94	
14435.00	90.060	342.810	6588.47	7271.83	6109.94	-4531.77	1670289.80	14318913.76	39°25'51.934"N	80°53'39.138"W	7607.12	323.435	2.48	
14529.00	89.820	342.660	6588.57	7365.76	6199.70	-4559.67	1670261.92	14319003.49	39°25'52.822"N	80°53'39.493"W	7695.90	323.667	0.30	
14625.00	89.970	339.570	6588.75	7461.74	6290.52	-4590.74	1670230.86	14319094.27	39°25'53.720"N	80°53'39.887"W	7787.53	323.879	3.22	
14719.00	90.060	332.950	6588.72	7555.43	6376.52	-4628.56	1670193.05	14319180.24	39°25'54.570"N	80°53'40.368"W	7879.31	324.025	7.04	
14813.00	89.790	329.200	6588.85	7648.14	6458.78	-4674.02	1670147.61	14319262.46	39°25'55.383"N	80°53'40.946"W	7972.60	324.108	4.00	
14908.00	89.760	333.530	6589.22	7741.91	6542.14	-4719.53	1670102.12	14319345.79	39°25'56.208"N	80°53'41.525"W	8066.82	324.193	4.56	
15004.00	89.630	338.690	6589.73	7837.59	6629.88	-4758.40	1670063.27	14319433.50	39°25'57.076"N	80°53'42.019"W	8160.74	324.332	5.38	
15099.00	89.730	344.280	6590.26	7932.54	6719.93	-4788.55	1670033.13	14319523.51	39°25'57.966"N	80°53'42.402"W	8251.53	324.527	5.89	
15194.00	89.850	347.400	6590.61	8027.12	6812.03	-4811.79	1670009.90	14319615.57	39°25'58.876"N	80°53'42.697"W	8340.09	324.764	3.29	
15289.00	89.510	347.310	6591.14	8121.44	6904.73	-4832.59	1669989.11	14319708.23	39°25'59.793"N	80°53'42.960"W	8427.88	325.012	0.37	
15384.00	89.390	345.830	6592.05	8215.90	6997.12	-4854.65	1669967.06	14319800.59	39°26'00.706"N	80°53'43.240"W	8516.30	325.247	1.56	
15479.00	89.660	345.330	6592.84	8310.53	7089.12	-4878.31	1669943.41	14319892.55	39°26'01.616"N	80°53'43.540"W	8605.44	325.467	0.60	
15573.00	89.570	339.260	6593.47	8404.43	7178.63	-4906.88	1669914.85	14319982.02	39°26'02.501"N	80°53'43.903"W	8695.41	325.646	6.46	
15669.00	89.540	337.420	6594.22	8500.36	7267.84	-4942.31	1669879.43	14320071.20	39°26'03.383"N	80°53'44.353"W	8789.08	325.783	1.92	
15763.00	89.690	340.610	6594.85	8594.31	7355.60	-4975.97	1669845.79	14320158.92	39°26'04.251"N	80°53'44.781"W	8880.60	325.922	3.40	

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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #08
Area	Tyler County, WV		Well	Melvin Unit 1H
Field	Tyler		Wellbore	Melvin Unit 1H AWB
Facility	Estlack Pad			

WELLPATH DATA (381 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)	Comments
15858.00	89.730	342.650	6595.33	8689.29	7445.75	-5005.90	1669815.86	14320249.04	39°26'05.142"N	80°53'45.161"W	8972.08	326.086	2.15	
15953.00	89.880	343.020	6595.65	8784.21	7536.52	-5033.94	1669787.84	14320339.77	39°26'06.039"N	80°53'45.517"W	9063.09	326.259	0.42	
16048.00	89.540	342.380	6596.14	8879.14	7627.22	-5062.19	1669759.60	14320430.43	39°26'06.936"N	80°53'45.876"W	9154.25	326.428	0.76	
16143.00	89.660	340.380	6596.80	8974.12	7717.24	-5092.52	1669729.28	14320520.42	39°26'07.826"N	80°53'46.261"W	9246.05	326.580	2.11	
16238.00	90.370	341.510	6596.77	9069.11	7807.03	-5123.54	1669698.28	14320610.17	39°26'08.714"N	80°53'46.655"W	9338.11	326.724	1.40	
16333.00	90.740	344.790	6595.85	9164.00	7897.93	-5151.07	1669670.75	14320701.04	39°26'09.613"N	80°53'47.005"W	9429.26	326.887	3.47	
16429.00	90.090	343.730	6595.16	9259.79	7990.33	-5177.11	1669644.72	14320793.40	39°26'10.526"N	80°53'47.335"W	9520.92	327.060	1.30	
16523.00	90.340	337.940	6594.80	9353.74	8079.08	-5207.96	1669613.89	14320882.12	39°26'11.404"N	80°53'47.727"W	9612.20	327.193	6.17	
16616.00	90.250	335.190	6594.33	9446.51	8164.40	-5244.94	1669576.92	14320967.40	39°26'12.247"N	80°53'48.197"W	9703.96	327.283	2.96	
16710.00	90.430	335.920	6593.77	9540.16	8249.97	-5283.84	1669538.04	14321052.94	39°26'13.094"N	80°53'48.692"W	9796.99	327.362	0.80	
16805.00	90.340	334.620	6593.13	9634.76	8336.26	-5323.58	1669498.32	14321139.19	39°26'13.947"N	80°53'49.197"W	9891.09	327.437	1.37	
16899.00	89.730	333.840	6593.07	9728.19	8420.91	-5364.44	1669457.47	14321223.80	39°26'14.784"N	80°53'49.717"W	9984.43	327.501	1.05	
16993.00	89.170	336.370	6593.97	9821.76	8506.16	-5404.01	1669417.92	14321309.02	39°26'15.627"N	80°53'50.220"W	10077.60	327.572	2.76	
17088.00	89.820	338.950	6594.81	9916.63	8594.02	-5440.11	1669381.83	14321396.85	39°26'16.496"N	80°53'50.679"W	10171.14	327.666	2.80	
17183.00	90.900	346.050	6594.21	10011.51	8684.56	-5468.66	1669353.29	14321487.35	39°26'17.391"N	80°53'51.041"W	10262.94	327.801	7.56	
17278.00	91.020	346.520	6592.62	10106.02	8776.84	-5491.18	1669330.78	14321579.59	39°26'18.303"N	80°53'51.327"W	10353.07	327.968	0.51	
17372.00	90.000	344.880	6591.79	10199.62	8867.92	-5514.40	1669307.57	14321670.64	39°26'19.204"N	80°53'51.621"W	10442.63	328.125	2.05	
17468.00	90.030	342.130	6591.76	10295.48	8959.96	-5541.65	1669280.33	14321762.64	39°26'20.114"N	80°53'51.967"W	10535.22	328.264	2.86	
17562.00	89.880	342.860	6591.83	10389.42	9049.61	-5569.93	1669252.06	14321852.25	39°26'21.000"N	80°53'52.326"W	10626.36	328.388	0.79	
17657.00	89.880	344.040	6592.03	10484.30	9140.67	-5596.99	1669225.01	14321943.28	39°26'21.900"N	80°53'52.670"W	10718.12	328.520	1.24	
17695.00	89.880	344.040	6592.11	10522.23	9177.20	-5607.44	1669214.57	14321979.80	39°26'22.262"N	80°53'52.803"W	10754.74	328.574	0.00	Projected MD at TD: 17695'

Transmitted Data
 Office of the State Auditor
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Actual Wellpath Report

Melvin Unit 1H AWP Proj: 17695'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #08
Area	Tyler County, WV	Well	Melvin Unit 1H
Field	Tyler	Wellbore	Melvin Unit 1H AWB
Facility	Estlack Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Melvin Unit 1H AWB Ref Wellpath: Melvin Unit 1H AWP Proj: 17695'

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	32.00	72.00	40.00	32.00	72.00	0.00	0.00	-0.05	-0.07
13.375in Casing Surface	32.00	411.00	379.00	32.00	411.00	0.00	0.00	-0.68	-0.62
9.625in Casing Intermediate	32.00	2623.00	2591.00	32.00	2508.72	0.00	0.00	-317.97	-553.01

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Melvin Unit 1H POE - Plat	6573.00	-721.13	-2104.87	1672715.73	14312085.43	39°24'44.390"N	80°53'08.320"W	point
Melvin Unit 1H BHL - Plat	6599.00	9176.04	-5607.22	1669214.79	14321978.63	39°26'22.250"N	80°53'52.800"W	point
Melvin Unit 1H LP Rev-1	6599.00	-560.27	-2161.80	1672658.83	14312246.23	39°24'45.981"N	80°53'09.043"W	point
Melvin Unit 1H DC	6650.00	0.00	0.00	1674819.76	14312806.27	39°24'51.490"N	80°52'41.490"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Melvin Unit 1H AWB Ref Wellpath: Melvin Unit 1H AWP Proj: 17695'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
32.00	6060.13	BHI Generic gyro - northseeking (Standard)	01_SDI Gyro (100' - 6060.13')	Melvin Unit 1H AWB
6060.13	17657.00	Navitrak w/ Surcon: (MagCAD, Short spacing)	02_BHI AT Curve [SS+MSA] <8-1/2"> (6060.13')(6277'- 17657')	Melvin Unit 1H AWB
17657.00	17695.00	Blind Drilling (std)	Projection to bit	Melvin Unit 1H AWB

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