



Actual Wellpath Report

Hennessy Unit 1H AWP Proj: 15565'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Hennessy Unit 1H
Field	Tyler	Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	10/4/2019 at 10:53:39 AM
Convergence at slot	0.05° East	Database/Source file	WA_MPL_EasternUS_Defn/Hennessy_Unit_1H_AWP_Proj_15565_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	15.18	-0.02	1663420.81	14333938.47	39°28'20.560"N	80°55'06.540"W
Facility Reference Pt			1663420.83	14333923.30	39°28'20.410"N	80°55'06.540"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.301"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	787.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	787.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #04)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	341.11°

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WELLPATH DATA (182 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	197.630	0.00	0.00	0.00	0.00	1663420.81	14333938.47	39°28'20.560"N	80°55'06.540"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	197.630	30.00	0.00	0.00	0.00	1663420.81	14333938.47	39°28'20.560"N	80°55'06.540"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.560	197.630	115.00	-0.33	-0.40	-0.13	1663420.69	14333938.08	39°28'20.556"N	80°55'06.542"W	0.42	197.630	0.66	0.66	-191.02	Gyrodatta MS Gyro <17-1/2">(115'-300')
140.00	0.640	193.890	140.00	-0.55	-0.65	-0.20	1663420.62	14333937.83	39°28'20.554"N	80°55'06.543"W	0.68	196.859	0.36	0.32	-14.96	
165.00	0.540	192.160	165.00	-0.77	-0.90	-0.25	1663420.56	14333937.57	39°28'20.551"N	80°55'06.543"W	0.93	195.823	0.41	-0.40	-6.92	
190.00	0.500	196.210	189.99	-0.96	-1.12	-0.31	1663420.50	14333937.35	39°28'20.549"N	80°55'06.544"W	1.16	195.488	0.22	-0.16	16.20	
215.00	0.430	206.170	214.99	-1.11	-1.31	-0.38	1663420.43	14333937.17	39°28'20.547"N	80°55'06.545"W	1.36	196.277	0.43	-0.28	39.84	
240.00	0.400	204.820	239.99	-1.24	-1.47	-0.46	1663420.35	14333937.00	39°28'20.545"N	80°55'06.546"W	1.54	197.359	0.13	-0.12	-5.40	
265.00	0.330	184.080	264.99	-1.37	-1.62	-0.50	1663420.31	14333936.85	39°28'20.544"N	80°55'06.546"W	1.70	197.183	0.59	-0.28	-82.96	
290.00	0.360	181.850	289.99	-1.51	-1.77	-0.51	1663420.31	14333936.70	39°28'20.542"N	80°55'06.547"W	1.84	196.030	0.13	0.12	-8.92	
300.00	0.370	177.940	299.99	-1.57	-1.84	-0.51	1663420.31	14333936.64	39°28'20.542"N	80°55'06.547"W	1.91	195.497	0.27	0.10	-39.10	
433.00	0.600	116.660	432.99	-2.48	-2.58	0.13	1663420.94	14333935.90	39°28'20.535"N	80°55'06.538"W	2.58	177.140	0.40	0.17	-46.08	Gyrodatta MS Gyro <12-1/4">(300')(433')
578.00	0.570	113.670	577.98	-3.51	-3.21	1.47	1663422.28	14333935.27	39°28'20.528"N	80°55'06.521"W	3.53	155.411	0.03	-0.02	-2.06	WFT EM <12-1/4">(433')(578'-2519')
670.00	0.770	126.000	669.97	-4.33	-3.75	2.39	1663423.20	14333934.72	39°28'20.523"N	80°55'06.510"W	4.45	147.554	0.27	0.22	13.40	
762.00	0.370	141.520	761.97	-5.11	-4.35	3.07	1663423.89	14333934.12	39°28'20.517"N	80°55'06.501"W	5.33	144.774	0.46	-0.43	16.87	
854.00	0.700	159.640	853.97	-5.95	-5.11	3.45	1663424.27	14333933.36	39°28'20.509"N	80°55'06.496"W	6.17	145.957	0.40	0.36	19.70	
952.00	1.410	163.160	951.95	-7.76	-6.83	4.01	1663424.82	14333931.65	39°28'20.493"N	80°55'06.489"W	7.92	149.565	0.73	0.72	3.59	
1046.00	3.040	172.110	1045.87	-11.36	-10.40	4.69	1663425.50	14333928.08	39°28'20.457"N	80°55'06.480"W	11.41	155.742	1.77	1.73	9.52	
1140.00	4.130	165.240	1139.69	-17.18	-16.14	5.89	1663426.70	14333922.34	39°28'20.400"N	80°55'06.465"W	17.19	159.950	1.24	1.16	-7.31	
1235.00	5.170	157.880	1234.38	-24.87	-23.42	8.38	1663429.19	14333915.06	39°28'20.328"N	80°55'06.433"W	24.87	160.321	1.26	1.09	-7.75	
1330.00	4.890	157.880	1329.01	-33.18	-31.13	11.51	1663432.32	14333907.35	39°28'20.252"N	80°55'06.394"W	33.19	159.708	0.29	-0.29	0.00	
1424.00	3.650	163.580	1422.75	-40.17	-37.72	13.87	1663434.67	14333900.77	39°28'20.187"N	80°55'06.364"W	40.18	159.814	1.39	-1.32	6.06	
1519.00	2.230	183.160	1517.62	-44.91	-42.46	14.62	1663435.43	14333896.03	39°28'20.140"N	80°55'06.354"W	44.91	161.002	1.81	-1.49	20.61	
1613.00	2.180	207.670	1611.56	-47.83	-45.87	13.69	1663434.50	14333892.62	39°28'20.107"N	80°55'06.366"W	47.87	163.385	1.00	-0.05	26.07	
1708.00	2.820	201.440	1706.46	-50.86	-49.65	11.99	1663432.80	14333888.85	39°28'20.069"N	80°55'06.388"W	51.08	166.418	0.73	0.67	-6.56	
1803.00	1.890	174.490	1801.39	-54.16	-53.38	11.29	1663432.10	14333885.11	39°28'20.032"N	80°55'06.397"W	54.56	168.057	1.50	-0.98	-28.37	
1897.00	2.480	131.200	1895.32	-57.43	-56.26	12.97	1663433.78	14333882.23	39°28'20.004"N	80°55'06.375"W	57.74	167.019	1.81	0.63	-46.05	
1992.00	1.590	102.740	1990.27	-59.91	-57.91	15.80	1663436.61	14333880.59	39°28'19.988"N	80°55'06.339"W	60.03	164.737	1.39	-0.94	-29.96	
2086.00	2.150	26.680	2084.23	-59.36	-56.62	17.87	1663438.67	14333881.87	39°28'20.000"N	80°55'06.313"W	59.37	162.487	2.50	0.60	-80.91	
2181.00	2.750	3.320	2179.14	-56.00	-52.75	18.80	1663439.61	14333885.74	39°28'20.038"N	80°55'06.301"W	56.00	160.387	1.21	0.63	-24.59	

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Area	Tyler County, WV		Well	Hennessy Unit 1H
Field	Tyler		Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad			

WELLPATH DATA (182 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
2276.00	3.270	335.180	2274.02	-51.19	-48.02	17.79	1663438.60	14333890.47	39°28'20.085"N	80°55'06.314"W	51.21	159.668	1.63	0.55	-29.62	
2370.00	2.550	306.520	2367.90	-46.80	-44.34	14.99	1663435.80	14333894.15	39°28'20.122"N	80°55'06.349"W	46.80	161.325	1.70	-0.77	-30.49	
2465.00	2.740	261.180	2462.81	-44.67	-43.43	11.04	1663431.85	14333895.06	39°28'20.131"N	80°55'06.400"W	44.81	165.733	2.15	0.20	-47.73	
2519.00	2.740	255.060	2516.75	-44.35	-43.96	8.52	1663429.33	14333894.53	39°28'20.125"N	80°55'06.432"W	44.78	169.030	0.54	0.00	-11.33	
2631.00	1.320	253.910	2628.67	-44.11	-45.01	4.70	1663425.51	14333893.48	39°28'20.115"N	80°55'06.481"W	45.25	174.044	1.27	-1.27	-1.03	WFT EM <8-3/4">(2519')(2631'-5666')
2726.00	2.470	206.880	2723.62	-45.48	-47.14	2.72	1663423.53	14333891.35	39°28'20.094"N	80°55'06.506"W	47.22	176.700	1.94	1.21	-49.51	
2821.00	4.500	189.090	2818.45	-50.20	-52.65	1.20	1663422.02	14333885.85	39°28'20.040"N	80°55'06.525"W	52.66	178.690	2.40	2.14	-18.73	
2915.00	6.150	170.310	2912.04	-58.43	-61.25	1.47	1663422.28	14333877.25	39°28'19.955"N	80°55'06.522"W	61.27	178.626	2.53	1.76	-19.98	
3010.00	6.120	166.020	3006.50	-68.50	-71.18	3.55	1663424.36	14333867.32	39°28'19.856"N	80°55'06.496"W	71.27	177.146	0.48	-0.03	-4.52	
3104.00	6.520	181.430	3099.94	-78.49	-81.38	4.63	1663425.44	14333857.13	39°28'19.756"N	80°55'06.482"W	81.51	176.746	1.85	0.43	16.39	
3202.00	6.290	183.110	3197.32	-88.69	-92.30	4.20	1663425.01	14333846.21	39°28'19.648"N	80°55'06.488"W	92.40	177.397	0.30	-0.23	1.71	
3297.00	7.940	179.930	3291.59	-99.73	-104.06	3.92	1663424.73	14333834.45	39°28'19.531"N	80°55'06.491"W	104.14	177.842	1.78	1.74	-3.35	
3391.00	7.840	177.200	3384.70	-112.03	-116.96	4.24	1663425.06	14333821.56	39°28'19.404"N	80°55'06.487"W	117.03	177.922	0.41	-0.11	-2.90	
3486.00	7.420	176.130	3478.86	-124.18	-129.55	4.97	1663425.79	14333808.98	39°28'19.280"N	80°55'06.478"W	129.64	177.802	0.47	-0.44	-1.13	
3581.00	6.920	175.310	3573.12	-135.66	-141.37	5.86	1663426.67	14333797.16	39°28'19.163"N	80°55'06.467"W	141.49	177.628	0.54	-0.53	-0.86	
3676.00	7.520	177.410	3667.36	-147.17	-153.29	6.60	1663427.42	14333785.25	39°28'19.045"N	80°55'06.458"W	153.43	177.533	0.69	0.63	2.21	
3771.00	7.180	177.590	3761.58	-158.83	-165.43	7.13	1663427.95	14333773.11	39°28'18.925"N	80°55'06.451"W	165.58	177.530	0.36	-0.36	0.19	
3865.00	6.660	176.330	3854.90	-169.72	-176.74	7.73	1663428.54	14333761.81	39°28'18.813"N	80°55'06.443"W	176.91	177.495	0.58	-0.55	-1.34	
3960.00	7.650	176.240	3949.16	-181.14	-188.55	8.50	1663429.31	14333750.00	39°28'18.696"N	80°55'06.434"W	188.74	177.419	1.04	1.04	-0.09	
4055.00	7.490	174.090	4043.33	-193.28	-201.01	9.55	1663430.36	14333737.54	39°28'18.573"N	80°55'06.421"W	201.24	177.280	0.34	-0.17	-2.26	
4149.00	7.750	184.170	4136.50	-205.08	-213.43	9.72	1663430.53	14333725.13	39°28'18.450"N	80°55'06.419"W	213.65	177.392	1.45	0.28	10.72	
4243.00	7.450	185.230	4229.68	-216.48	-225.82	8.70	1663429.51	14333712.74	39°28'18.328"N	80°55'06.432"W	225.99	177.793	0.35	-0.32	1.13	
4338.00	8.870	187.600	4323.71	-228.65	-239.21	7.17	1663427.99	14333699.35	39°28'18.196"N	80°55'06.451"W	239.32	178.282	1.54	1.49	2.49	
4433.00	9.360	179.440	4417.52	-242.54	-254.20	6.28	1663427.09	14333684.38	39°28'18.048"N	80°55'06.463"W	254.28	178.585	1.45	0.52	-8.59	
4530.00	8.070	172.630	4513.40	-256.70	-268.84	7.23	1663428.04	14333669.74	39°28'17.903"N	80°55'06.451"W	268.94	178.459	1.70	-1.33	-7.02	
4624.00	7.780	171.950	4606.50	-269.42	-281.68	8.97	1663429.78	14333656.90	39°28'17.776"N	80°55'06.429"W	281.83	178.176	0.32	-0.31	-0.72	
4719.00	8.650	174.630	4700.52	-282.68	-295.16	10.54	1663431.35	14333643.43	39°28'17.643"N	80°55'06.409"W	295.35	177.955	1.00	0.92	2.82	
4814.00	8.560	175.770	4794.45	-296.46	-309.33	11.73	1663432.54	14333629.27	39°28'17.503"N	80°55'06.394"W	309.55	177.829	0.20	-0.09	1.20	
4909.00	8.540	174.780	4888.40	-310.16	-323.40	12.89	1663433.70	14333615.20	39°28'17.364"N	80°55'06.379"W	323.66	177.717	0.16	-0.02	-1.04	
5004.00	7.500	170.940	4982.47	-323.12	-336.55	14.51	1663435.32	14333602.06	39°28'17.234"N	80°55'06.359"W	336.86	177.531	1.23	-1.09	-4.04	

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5098.00	7.080	170.700	5075.71	-334.88	-348.32	16.41	1663437.22	14333590.29	39°28'17.117"N	80°55'06.335"W	348.71	177.303	0.45	-0.45	-0.26	
5193.00	6.830	176.080	5170.01	-346.11	-359.74	17.74	1663438.55	14333578.88	39°28'17.004"N	80°55'06.318"W	360.18	177.176	0.73	-0.26	5.66	
5288.00	6.040	172.620	5264.41	-356.46	-370.33	18.77	1663439.58	14333568.29	39°28'16.900"N	80°55'06.305"W	370.81	177.098	0.93	-0.83	-3.64	
5351.00	3.230	187.400	5327.20	-361.30	-375.38	18.97	1663439.78	14333563.24	39°28'16.850"N	80°55'06.302"W	375.86	177.107	4.81	-4.46	23.46	
5414.00	1.960	321.720	5390.17	-361.88	-376.29	18.07	1663438.88	14333562.33	39°28'16.841"N	80°55'06.314"W	376.73	177.250	7.63	-2.02	213.21	
5477.00	6.460	349.760	5452.99	-357.36	-371.96	16.77	1663437.58	14333566.66	39°28'16.884"N	80°55'06.330"W	372.34	177.418	7.65	7.14	44.51	
5540.00	12.630	355.060	5515.09	-347.16	-361.60	15.55	1663436.36	14333577.02	39°28'16.986"N	80°55'06.346"W	361.93	177.538	9.88	9.79	8.41	
5603.00	18.150	355.120	5575.80	-330.94	-344.95	14.12	1663434.93	14333593.66	39°28'17.151"N	80°55'06.364"W	345.24	177.656	8.76	8.76	0.10	
5666.00	22.300	354.200	5634.91	-309.77	-323.27	12.08	1663432.89	14333615.33	39°28'17.365"N	80°55'06.390"W	323.49	177.860	6.61	6.59	-1.46	
5705.00	26.230	353.680	5670.46	-294.14	-307.33	10.38	1663431.19	14333631.26	39°28'17.522"N	80°55'06.411"W	307.51	178.066	10.09	10.08	-1.33	BH AT Curve <8-1/2"> (5666')(5705'-15540')
5801.00	34.430	354.310	5753.25	-246.93	-259.16	5.35	1663426.16	14333679.42	39°28'17.999"N	80°55'06.475"W	259.22	178.818	8.55	8.54	0.66	
5896.00	41.090	357.310	5828.31	-190.74	-201.18	1.21	1663422.03	14333737.37	39°28'18.572"N	80°55'06.527"W	201.19	179.655	7.27	7.01	3.16	
5990.00	48.210	356.440	5895.15	-127.20	-135.26	-2.42	1663418.40	14333803.26	39°28'19.223"N	80°55'06.572"W	135.29	181.024	7.60	7.57	-0.93	
6040.00†	52.194	356.574	5927.14	-90.17	-96.93	-4.76	1663416.06	14333841.58	39°28'19.602"N	80°55'06.602"W	97.04	182.810	7.97	7.97	0.27	Middlesex: 6040' MD
6084.00	55.700	356.680	5953.03	-55.90	-61.42	-6.85	1663413.97	14333877.07	39°28'19.953"N	80°55'06.628"W	61.80	186.362	7.97	7.97	0.24	
6179.00	61.380	356.700	6002.59	22.13	19.44	-11.53	1663409.29	14333957.91	39°28'20.752"N	80°55'06.687"W	22.60	329.344	5.98	5.98	0.02	
6206.00†	63.396	356.966	6015.11	45.16	43.33	-12.85	1663407.97	14333981.79	39°28'20.988"N	80°55'06.703"W	45.20	343.487	7.52	7.47	0.99	Burkett: 6206' MD
6260.00†	67.429	357.473	6037.57	92.32	92.37	-15.22	1663405.60	14334030.80	39°28'21.473"N	80°55'06.733"W	93.61	350.640	7.52	7.47	0.94	Tully: 6260' MD
6273.00	68.400	357.590	6042.46	103.88	104.40	-15.74	1663405.08	14334042.83	39°28'21.592"N	80°55'06.740"W	105.58	351.425	7.52	7.47	0.90	
6318.00†	71.957	357.764	6057.72	144.45	146.89	-17.46	1663403.36	14334085.11	39°28'22.010"N	80°55'06.761"W	147.73	353.213	7.91	7.91	0.39	Marcellus POE: 6318' MD
6368.00	75.910	357.950	6071.55	190.45	194.70	-19.25	1663401.57	14334133.09	39°28'22.484"N	80°55'06.783"W	195.65	354.352	7.91	7.91	0.37	
6415.00	78.940	357.010	6081.78	234.45	240.52	-21.27	1663399.55	14334178.90	39°28'22.937"N	80°55'06.808"W	241.46	354.946	6.74	6.45	-2.00	
6462.00	82.400	353.600	6089.40	279.40	286.73	-25.07	1663395.75	14334225.09	39°28'23.394"N	80°55'06.856"W	287.82	355.002	10.27	7.36	-7.26	
6509.00	87.810	351.660	6093.41	325.27	333.15	-31.08	1663389.75	14334271.49	39°28'23.853"N	80°55'06.933"W	334.60	354.670	12.22	11.51	-4.13	
6557.00	90.400	350.270	6094.16	372.55	380.54	-38.62	1663382.21	14334318.86	39°28'24.321"N	80°55'07.028"W	382.50	354.205	6.12	5.40	-2.90	
6651.00	90.150	346.670	6093.71	465.76	472.63	-57.40	1663363.43	14334410.91	39°28'25.232"N	80°55'07.267"W	476.10	353.075	3.84	-0.27	-3.83	
6746.00	90.430	344.770	6093.23	560.45	564.69	-80.83	1663340.01	14334502.94	39°28'26.142"N	80°55'07.564"W	570.45	351.854	2.02	0.29	-2.00	
6840.00	90.400	342.530	6092.55	654.35	654.88	-107.29	1663313.56	14334593.09	39°28'27.033"N	80°55'07.901"W	663.61	350.695	2.38	-0.03	-2.38	
6935.00	90.680	340.010	6091.65	749.33	744.84	-137.80	1663283.07	14334683.01	39°28'27.923"N	80°55'08.289"W	757.48	349.519	2.67	0.29	-2.65	
7029.00	90.000	338.120	6091.10	843.27	832.63	-171.38	1663249.50	14334770.77	39°28'28.791"N	80°55'08.716"W	850.08	348.369	2.14	-0.72	-2.01	

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Actual Wellpath Report

Hennessy Unit 1H AWP Proj: 15565'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION		Slot #04
Area	Tyler County, WV		Well
Field	Tyler		Wellbore
Facility	Ferrell North Pad		Hennessy Unit 1H AWB

WELLPATH DATA (182 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)	Buidl Rate (°/100ft)	Turn Rate (°/100ft)	Comments
7124.00	90.060	337.840	6091.05	938.13	920.70	-207.00	1663213.90	14334858.80	39°28'29.661"N	80°55'09.169"W	943.68	347.329	0.30	0.06	-0.29	
7218.00	90.340	334.470	6090.72	1031.76	1006.66	-244.99	1663175.92	14334944.73	39°28'30.511"N	80°55'09.653"W	1036.04	346.322	3.60	0.30	-3.59	
7312.00	90.000	333.290	6090.44	1125.01	1091.05	-286.38	1663134.55	14335029.09	39°28'31.346"N	80°55'10.179"W	1128.01	345.293	1.32	-0.36	-1.27	
7407.00	89.880	335.290	6090.54	1219.33	1176.64	-327.60	1663093.34	14335114.64	39°28'32.192"N	80°55'10.704"W	1221.40	344.442	2.12	-0.13	2.12	
7501.00	89.910	338.910	6090.71	1313.09	1263.22	-364.17	1663056.79	14335201.18	39°28'33.048"N	80°55'11.169"W	1314.66	343.918	3.85	0.03	3.85	
7596.00	89.850	338.390	6090.91	1408.00	1351.70	-398.76	1663022.22	14335289.63	39°28'33.923"N	80°55'11.610"W	1409.29	343.564	0.55	-0.06	-0.55	
7690.00	89.940	338.640	6091.08	1501.90	1439.17	-433.19	1662987.80	14335377.06	39°28'34.788"N	80°55'12.048"W	1502.95	343.248	0.28	0.10	0.27	
7785.00	89.690	341.840	6091.39	1596.88	1528.56	-465.30	1662955.70	14335466.42	39°28'35.671"N	80°55'12.456"W	1597.81	343.070	3.38	-0.26	3.37	
7879.00	90.370	346.890	6091.34	1690.69	1619.05	-490.63	1662930.39	14335556.88	39°28'36.566"N	80°55'12.778"W	1691.76	343.141	5.42	0.72	5.37	
7974.00	90.830	346.870	6090.35	1785.21	1711.57	-512.19	1662908.83	14335649.35	39°28'37.481"N	80°55'13.052"W	1786.56	343.340	0.48	0.48	-0.02	
8068.00	90.890	342.760	6088.93	1878.98	1802.26	-536.80	1662884.23	14335740.00	39°28'38.377"N	80°55'13.365"W	1880.50	343.414	4.37	0.06	-4.37	
8162.00	90.280	340.020	6087.97	1972.97	1891.33	-566.80	1662854.25	14335829.04	39°28'39.258"N	80°55'13.746"W	1974.43	343.317	2.99	-0.65	-2.91	
8257.00	90.370	338.360	6087.44	2067.91	1980.13	-600.54	1662820.51	14335917.80	39°28'40.136"N	80°55'14.176"W	2069.19	343.128	1.75	0.09	-1.75	
8351.00	90.590	340.050	6086.65	2161.85	2068.00	-633.91	1662787.15	14336005.64	39°28'41.004"N	80°55'14.600"W	2162.97	342.958	1.81	0.23	1.80	
8446.00	90.520	340.570	6085.73	2256.83	2157.44	-665.92	1662755.16	14336095.04	39°28'41.889"N	80°55'15.007"W	2257.87	342.846	0.55	-0.07	0.55	
8540.00	90.310	339.890	6085.05	2350.82	2245.89	-697.72	1662723.38	14336183.46	39°28'42.763"N	80°55'15.412"W	2351.77	342.742	0.76	-0.22	-0.72	
8635.00	90.430	340.290	6084.43	2445.80	2335.21	-730.07	1662691.04	14336272.75	39°28'43.646"N	80°55'15.824"W	2446.67	342.639	0.44	0.13	0.42	
8729.00	92.220	339.290	6082.26	2539.75	2423.40	-762.53	1662658.59	14336360.90	39°28'44.518"N	80°55'16.237"W	2540.53	342.534	2.18	1.90	-1.06	
8824.00	90.150	337.830	6080.29	2634.63	2511.80	-797.24	1662623.89	14336449.26	39°28'45.392"N	80°55'16.678"W	2635.28	342.391	2.67	-2.18	-1.54	
8918.00	90.000	337.720	6080.17	2728.47	2598.81	-832.80	1662588.35	14336536.24	39°28'46.252"N	80°55'17.131"W	2728.99	342.232	0.20	-0.16	-0.12	
9013.00	88.980	342.140	6081.02	2823.42	2688.02	-865.39	1662555.77	14336625.41	39°28'47.134"N	80°55'17.545"W	2823.89	342.154	4.77	-1.07	4.65	
9107.00	89.230	345.760	6082.49	2917.28	2778.33	-891.37	1662529.80	14336715.68	39°28'48.027"N	80°55'17.876"W	2917.81	342.212	3.86	0.27	3.85	
9202.00	89.880	348.160	6083.22	3011.77	2870.87	-912.80	1662508.38	14336808.19	39°28'48.942"N	80°55'18.148"W	3012.49	342.362	2.62	0.68	2.53	
9296.00	91.050	347.670	6082.46	3105.10	2962.78	-932.48	1662488.71	14336900.06	39°28'49.850"N	80°55'18.398"W	3106.06	342.530	1.35	1.24	-0.52	
9391.00	91.020	345.290	6080.75	3199.66	3055.12	-954.69	1662466.51	14336992.37	39°28'50.763"N	80°55'18.680"W	3200.81	342.647	2.51	-0.03	-2.51	
9485.00	90.950	342.430	6079.13	3293.53	3145.40	-980.81	1662440.40	14337082.61	39°28'51.656"N	80°55'19.012"W	3294.77	342.681	3.04	-0.07	-3.04	
9579.00	89.450	340.980	6078.80	3387.52	3234.64	-1010.32	1662410.90	14337171.81	39°28'52.538"N	80°55'19.388"W	3388.75	342.654	2.22	-1.60	-1.54	
9674.00	90.620	341.460	6078.74	3482.52	3324.58	-1040.90	1662380.33	14337261.72	39°28'53.427"N	80°55'19.777"W	3483.72	342.615	1.33	1.23	0.51	
9768.00	88.980	338.090	6079.07	3576.48	3412.77	-1073.39	1662347.85	14337349.87	39°28'54.299"N	80°55'20.190"W	3577.59	342.540	3.99	-1.74	-3.59	
9863.00	89.600	339.900	6080.25	3671.40	3501.44	-1107.44	1662313.82	14337438.51	39°28'55.176"N	80°55'20.623"W	3672.40	342.449	2.01	0.65	1.91	

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Hennessy Unit 1H
Field	Tyler	Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad		

WELLPATH DATA (182 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
9957.00	89.660	339.130	6080.86	3765.36	3589.50	-1140.34	1662280.94	14337526.53	39°28'56.046"N	80°55'21.042"W	3766.28	342.376	0.82	0.06	-0.82	
10052.00	89.820	337.690	6081.29	3860.25	3677.83	-1175.29	1662246.00	14337614.83	39°28'56.920"N	80°55'21.487"W	3861.05	342.278	1.53	0.17	-1.52	
10146.00	90.280	336.650	6081.20	3954.03	3764.46	-1211.76	1662209.54	14337701.43	39°28'57.776"N	80°55'21.951"W	3954.69	342.157	1.21	0.49	-1.11	
10240.00	89.450	337.850	6081.43	4047.81	3851.15	-1248.11	1662173.20	14337788.08	39°28'58.633"N	80°55'22.414"W	4048.35	342.043	1.55	-0.88	1.28	
10335.00	89.410	343.310	6082.62	4142.76	3940.70	-1279.68	1662141.64	14337877.59	39°28'59.519"N	80°55'22.815"W	4143.27	342.010	5.76	-0.36	5.75	
10429.00	89.050	345.290	6084.13	4236.60	4031.18	-1305.12	1662116.22	14337968.03	39°29'00.413"N	80°55'23.139"W	4237.18	342.060	2.11	0.06	2.11	
10523.00	89.880	347.250	6085.01	4330.21	4122.48	-1327.42	1662093.92	14338059.30	39°29'01.316"N	80°55'23.422"W	4330.93	342.152	2.26	0.88	2.09	
10618.00	90.340	343.270	6084.83	4424.94	4214.34	-1351.59	1662069.77	14338151.12	39°29'02.224"N	80°55'23.729"W	4425.77	342.218	4.22	0.48	-4.19	
10712.00	89.480	340.670	6084.97	4518.92	4303.71	-1380.68	1662040.69	14338240.46	39°29'03.107"N	80°55'24.099"W	4519.76	342.213	2.91	-0.91	-2.77	
10807.00	89.660	340.400	6085.69	4613.92	4393.28	-1412.34	1662009.04	14338329.99	39°29'03.993"N	80°55'24.502"W	4614.72	342.179	0.34	0.19	-0.28	
10901.00	89.880	342.060	6086.06	4707.91	4482.28	-1442.58	1661978.81	14338418.95	39°29'04.873"N	80°55'24.887"W	4708.70	342.160	1.78	0.23	1.77	
10996.00	89.780	346.510	6086.35	4802.74	4573.70	-1468.31	1661953.10	14338510.34	39°29'05.776"N	80°55'25.214"W	4803.61	342.202	4.69	-0.11	4.68	
11090.00	90.800	346.190	6085.87	4896.35	4665.05	-1490.49	1661930.92	14338601.65	39°29'06.679"N	80°55'25.496"W	4897.37	342.281	1.14	1.09	-0.34	
11185.00	91.540	342.250	6083.93	4991.17	4756.43	-1516.31	1661905.11	14338692.99	39°29'07.583"N	80°55'25.824"W	4992.28	342.318	4.22	0.78	-4.15	
11280.00	90.590	338.770	6082.16	5086.13	4845.96	-1548.00	1661873.44	14338782.48	39°29'08.468"N	80°55'26.227"W	5087.20	342.284	3.80	-1.00	-3.66	
11374.00	90.860	336.850	6080.97	5179.96	4932.98	-1583.50	1661837.95	14338869.47	39°29'09.328"N	80°55'26.679"W	5180.90	342.203	2.06	0.29	-2.04	
11468.00	90.030	332.230	6080.24	5273.32	5017.83	-1623.89	1661797.57	14338954.29	39°29'10.167"N	80°55'27.194"W	5274.05	342.067	4.99	-0.88	-4.91	
11563.00	89.750	333.660	6080.43	5367.35	5102.43	-1667.10	1661754.38	14339038.85	39°29'11.004"N	80°55'27.744"W	5367.87	341.906	1.53	-0.29	1.51	
11657.00	90.000	337.210	6080.63	5460.87	5187.91	-1706.17	1661715.33	14339124.30	39°29'11.849"N	80°55'28.241"W	5461.26	341.795	3.79	0.27	3.78	
11752.00	89.720	336.820	6080.86	5555.63	5275.36	-1743.27	1661678.24	14339211.72	39°29'12.713"N	80°55'28.713"W	5555.94	341.714	0.51	-0.29	-0.41	
11846.00	88.860	341.510	6082.03	5649.54	5363.18	-1776.69	1661644.84	14339299.50	39°29'13.582"N	80°55'29.139"W	5649.81	341.671	5.07	-0.91	4.99	
11941.00	88.920	347.110	6083.87	5744.34	5454.59	-1802.37	1661619.17	14339390.87	39°29'14.485"N	80°55'29.465"W	5744.66	341.715	5.89	0.06	5.89	
12035.00	90.430	346.590	6084.40	5837.86	5546.12	-1823.75	1661597.79	14339482.37	39°29'15.390"N	80°55'29.737"W	5838.28	341.797	1.70	1.61	-0.55	
12130.00	91.230	344.660	6083.03	5932.55	5638.13	-1847.33	1661574.22	14339574.34	39°29'16.300"N	80°55'30.037"W	5933.06	341.859	2.20	0.84	-2.03	
12224.00	91.170	341.500	6081.06	6026.46	5728.03	-1874.68	1661546.89	14339664.21	39°29'17.188"N	80°55'30.385"W	6027.01	341.878	3.36	-0.06	-3.36	
12319.00	90.370	337.180	6079.78	6121.39	5816.89	-1908.19	1661513.39	14339753.03	39°29'18.067"N	80°55'30.811"W	6121.88	341.838	4.62	-0.84	-4.55	
12413.00	90.090	338.270	6079.40	6215.22	5903.88	-1943.82	1661477.78	14339839.98	39°29'18.927"N	80°55'31.265"W	6215.64	341.776	1.20	-0.30	1.16	
12508.00	90.310	339.080	6079.07	6310.13	5992.37	-1978.37	1661443.24	14339928.44	39°29'19.802"N	80°55'31.704"W	6310.50	341.729	0.88	0.23	0.85	
12602.00	90.430	337.970	6078.46	6404.03	6079.84	-2012.78	1661408.85	14340015.87	39°29'20.667"N	80°55'32.142"W	6404.35	341.682	1.19	0.13	-1.18	
12697.00	90.280	337.350	6077.88	6498.86	6167.71	-2048.89	1661372.75	14340103.71	39°29'21.535"N	80°55'32.602"W	6499.12	341.624	0.67	-0.16	-0.65	

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Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #04
Area	Tyler County, WV		Well	Hennessy Unit 1H
Field	Tyler		Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad			

WELLPATH DATA (182 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
12791.00	90.280	341.770	6077.42	6592.80	6255.77	-2081.70	1661339.95	14340191.73	39°29'22.406"N	80°55'33.020"W	6593.04	341.594	4.70	0.00	4.70	
12886.00	90.490	347.030	6076.78	6687.61	6347.23	-2107.24	1661314.42	14340283.16	39°29'23.310"N	80°55'33.344"W	6687.89	341.634	5.54	0.22	5.54	
12980.00	91.200	347.080	6075.39	6781.09	6438.84	-2128.30	1661293.37	14340374.72	39°29'24.216"N	80°55'33.612"W	6781.46	341.709	0.76	0.76	0.05	
13075.00	91.140	343.900	6073.45	6875.78	6530.77	-2152.09	1661269.59	14340466.63	39°29'25.125"N	80°55'33.915"W	6876.23	341.761	3.35	-0.06	-3.35	
13169.00	91.050	340.750	6071.65	6969.73	6620.31	-2180.62	1661241.07	14340556.12	39°29'26.010"N	80°55'34.277"W	6970.19	341.769	3.35	-0.10	-3.35	
13264.00	90.590	338.390	6070.29	7064.68	6709.32	-2213.78	1661207.92	14340645.10	39°29'26.890"N	80°55'34.699"W	7065.11	341.739	2.53	-0.48	-2.48	
13358.00	89.970	339.600	6069.84	7158.61	6797.07	-2247.47	1661174.25	14340732.81	39°29'27.757"N	80°55'35.128"W	7159.00	341.703	1.45	-0.66	1.29	
13453.00	90.490	343.950	6069.45	7253.58	6887.28	-2277.17	1661144.55	14340822.99	39°29'28.649"N	80°55'35.506"W	7253.97	341.704	4.61	0.55	4.58	
13547.00	91.200	342.200	6068.07	7347.51	6977.19	-2304.54	1661117.20	14340912.87	39°29'29.538"N	80°55'35.854"W	7347.93	341.722	2.01	0.76	-1.86	
13641.00	90.550	340.460	6066.63	7441.50	7066.23	-2334.62	1661087.13	14341001.87	39°29'30.418"N	80°55'36.237"W	7441.92	341.717	1.98	-0.65	-1.85	
13736.00	90.520	338.770	6065.74	7536.46	7155.28	-2367.71	1661054.05	14341090.88	39°29'31.298"N	80°55'36.658"W	7536.85	341.690	1.78	-0.03	-1.78	
13830.00	89.820	340.280	6065.47	7630.42	7243.34	-2400.59	1661021.19	14341178.90	39°29'32.169"N	80°55'37.077"W	7630.78	341.664	1.77	-0.74	1.61	
13925.00	89.450	345.650	6066.07	7725.33	7334.13	-2428.41	1660993.38	14341269.66	39°29'33.067"N	80°55'37.431"W	7725.71	341.680	5.67	-0.39	5.65	
14019.00	91.450	346.770	6065.33	7818.95	7425.41	-2450.81	1660970.98	14341360.91	39°29'33.969"N	80°55'37.715"W	7819.42	341.734	2.44	2.13	1.19	
14113.00	91.360	343.180	6063.03	7912.69	7516.16	-2475.17	1660946.64	14341451.61	39°29'34.866"N	80°55'38.025"W	7913.22	341.773	3.82	-0.10	-3.82	
14208.00	90.340	344.220	6061.62	8007.58	7607.33	-2501.83	1660919.99	14341542.75	39°29'35.767"N	80°55'38.364"W	8008.16	341.795	1.53	-1.07	1.09	
14302.00	90.430	343.770	6060.99	8101.46	7697.68	-2527.75	1660894.08	14341633.06	39°29'36.661"N	80°55'38.694"W	8102.09	341.821	0.49	0.10	-0.48	
14397.00	90.340	340.870	6060.35	8196.43	7788.18	-2556.60	1660865.24	14341723.53	39°29'37.555"N	80°55'39.061"W	8197.07	341.827	3.05	-0.09	-3.05	
14491.00	89.910	339.990	6060.14	8290.42	7876.75	-2588.08	1660833.77	14341812.06	39°29'38.431"N	80°55'39.462"W	8291.04	341.811	1.04	-0.46	-0.94	
14586.00	90.250	338.470	6060.01	8385.37	7965.57	-2621.77	1660800.10	14341900.85	39°29'39.309"N	80°55'39.891"W	8385.94	341.782	1.64	0.36	-1.60	
14680.00	89.820	338.800	6059.95	8479.28	8053.11	-2656.01	1660765.87	14341988.35	39°29'40.174"N	80°55'40.326"W	8479.80	341.747	0.58	-0.46	0.35	
14775.00	90.000	340.920	6060.10	8574.25	8142.30	-2688.72	1660733.17	14342077.50	39°29'41.056"N	80°55'40.743"W	8574.75	341.726	2.24	0.19	2.23	
14869.00	89.940	341.900	6060.15	8668.25	8231.39	-2718.69	1660703.22	14342166.56	39°29'41.937"N	80°55'41.124"W	8668.74	341.722	1.04	-0.06	1.04	
14964.00	90.000	342.990	6060.20	8763.22	8321.97	-2747.34	1660674.57	14342257.10	39°29'42.832"N	80°55'41.489"W	8763.73	341.730	1.15	0.06	1.15	
15058.00	89.970	343.410	6060.23	8857.16	8411.96	-2774.51	1660647.42	14342347.05	39°29'43.722"N	80°55'41.834"W	8857.70	341.746	0.45	-0.03	0.45	
15153.00	89.850	345.040	6060.37	8952.01	8503.37	-2800.34	1660621.60	14342438.43	39°29'44.626"N	80°55'42.163"W	8952.61	341.772	1.72	-0.13	1.72	
15247.00	90.090	346.570	6060.42	9045.70	8594.50	-2823.39	1660598.56	14342529.52	39°29'45.526"N	80°55'42.456"W	9046.38	341.814	1.65	0.26	1.63	
15342.00	90.060	343.860	6060.30	9140.44	8686.35	-2847.63	1660574.33	14342621.33	39°29'46.434"N	80°55'42.764"W	9141.20	341.849	2.85	-0.03	-2.85	
15436.00	89.780	341.150	6060.43	9234.41	8775.99	-2875.88	1660546.08	14342710.94	39°29'47.321"N	80°55'43.124"W	9235.19	341.856	2.90	-0.30	-2.88	
15531.00	89.970	341.230	6060.64	9329.41	8865.92	-2906.51	1660515.47	14342800.83	39°29'48.210"N	80°55'43.514"W	9330.18	341.849	0.22	0.20	0.08	

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Actual Wellpath Report

Hennessy Unit 1H AWP Proj: 15565'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Hennessy Unit 1H
Field	Tyler	Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad		

WELLPATH DATA (182 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
15540.00	90.00	341.340	6060.64	9338.41	8874.44	-2909.40	1660512.58	14342809.35	39°29'48.294"N	80°55'43.550"W	9339.18	341.849	1.27	0.33	1.22	
15565.00	90.00	341.340	6060.64	9363.41	8898.13	-2917.40	1660504.58	14342833.03	39°29'48.528"N	80°55'43.652"W	9364.18	341.847	0.00	0.00	0.00	Projected MD at TD: 15565'

HOLE & CASING SECTIONS - Ref Wellbore: Hennessy Unit 1H AWB Ref Wellpath: Hennessy Unit 1H AWP Proj: 15565'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	-0.35	-0.11
17.5in Open Hole	110.00	413.90	303.90	110.00	413.89	-0.35	-0.11	-2.49	-0.04
13.375in Casing Surface	30.00	413.90	383.90	30.00	413.89	0.00	0.00	-2.49	-0.04
12.25in Open Hole	413.90	2611.60	2197.70	413.89	2609.28	-2.49	-0.04	-44.88	5.17
9.625in Casing Intermediate	30.00	2611.60	2581.60	30.00	2609.28	0.00	0.00	-44.88	5.17
8.75in Open Hole	2611.60	5666.00	3054.40	2609.28	5634.91	-44.88	5.17	-323.27	12.08
8.5in Open Hole	5666.00	15565.00	9899.00	5634.91	6060.64	-323.27	12.08	8898.13	-2917.40
5.5in Casing Production	30.00	15565.00	15535.00	30.00	6060.64	0.00	0.00	8898.13	-2917.40

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Hennessy Unit 1H - POE - Rev-1	6056.00	120.05	-19.88	1663400.94	14334058.47	39°28'21.747"N	80°55'06.792"W	point
Hennessy Unit 1H - BHL - Rev-1	6094.00	8870.17	-2933.10	1660488.89	14342805.08	39°29'48.252"N	80°55'43.853"W	point
Hennessy Unit 1H - LP - Rev-1	6094.00	341.00	-50.94	1663369.90	14334279.34	39°28'23.931"N	80°55'07.186"W	point

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Actual Wellpath Report

Hennessy Unit 1H AWP Proj: 15565'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Hennessy Unit 1H
Field	Tyler	Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad		

WELLPATH COMPOSITION - Ref Wellbore: Hennessy Unit 1H AWB Ref Wellpath: Hennessy Unit 1H AWP Proj: 15565'

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	300.00	Gyrodata standard - Drop gyro or Multi-shot	01 Gyrodata MS Gyro <17-1/2">(115'-300')	Hennessy Unit 1H AWB
300.00	433.00	Gyrodata standard - Drop gyro or Multi-shot	02 Gyrodata MS Gyro <12-1/4">(300')(433')	Hennessy Unit 1H AWB
433.00	2519.00	OWSG MWD rev2 + HRGM	03 WFT EM <12-1/4">(433')(578'-2519')	Hennessy Unit 1H AWB
2519.00	5666.00	OWSG MWD rev2 + HRGM	04 WFT EM <8-3/4">(2519')(2631'-5666')	Hennessy Unit 1H AWB
5666.00	15540.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2"> (5666')(5705'-15540')	Hennessy Unit 1H AWB
15540.00	15565.00	Blind Drilling (std)	Projection to bit	Hennessy Unit 1H AWB

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Hennessy Unit 1H AWP Proj: 15565'

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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #04
Area	Tyler County, WV	Well	Hennessy Unit 1H
Field	Tyler	Wellbore	Hennessy Unit 1H AWB
Facility	Ferrell North Pad		

COMMENTS
<p>Wellpath general comments API: 47-095-02577-0000 BHI Job #: 110030920A Rig: H&P 519 Duration: 09/22/2019-09/24/2019 Gyrodata MS Gyro <17-1/2">(115'-300') Gyrodata MS Gyro <12-1/4">(300')(433') WFT EM <12-1/4">(433')(578'-2519') WFT EM <8-3/4">(2519')(2631'-5666') BH AT Curve <8-1/2"> (5666')(5705'-15540') Middlesex: 6040' MD Burkett: 6206' MD Tully: 6260' MD Marcellus POE: 6318' MD Projected MD at TD: 15565'</p>

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