



Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'

Page 1 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWB
Facility	Ireland 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	1/10/2019 at 3:48:32 PM
Convergence at slot	0.06° East	Database/Source file	WA_MPL_EasternUS_Defn/Pritchard_Unit_2H_AWP_Proj_18904_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	12.11	-26.79	1668910.21	14224862.23	39°10'22.000"N	80°53'58.060"W
Facility Reference Pt			1668936.99	14224850.13	39°10'21.880"N	80°53'57.720"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	30.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	975.50ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #02)	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	336.25°

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Page 2 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWP
Facility	Ireland North Pad		

WELLPATH DATA (237 stations) † = interpolated/extrapolated station																
MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Comments
0.00	0.000	12.520	0.00	0.00	0.00	0.00	1668910.21	14224862.23	39°10'22.000"N	80°53'58.060"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	12.520	30.00	0.00	0.00	0.00	1668910.21	14224862.23	39°10'22.000"N	80°53'58.060"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.380	12.520	115.00	0.23	0.28	0.06	1668910.27	14224862.51	39°10'22.003"N	80°53'58.059"W	0.28	12.520	0.45	0.45	14.73	Gyrodata MS Gyro <17-1/2">(100'-452')
140.00	0.190	329.690	140.00	0.34	0.39	0.06	1668910.27	14224862.62	39°10'22.004"N	80°53'58.059"W	0.40	8.441	1.09	-0.76	-171.32	
165.00	0.280	342.950	165.00	0.44	0.49	0.02	1668910.23	14224862.72	39°10'22.005"N	80°53'58.060"W	0.49	2.277	0.42	0.36	53.04	
190.00	0.190	332.190	190.00	0.54	0.58	-0.02	1668910.20	14224862.81	39°10'22.006"N	80°53'58.060"W	0.58	358.233	0.40	-0.36	-43.04	
215.00	0.180	310.160	215.00	0.62	0.64	-0.07	1668910.15	14224862.88	39°10'22.006"N	80°53'58.061"W	0.65	354.028	0.29	-0.04	-88.12	
240.00	0.210	311.250	240.00	0.69	0.70	-0.13	1668910.08	14224862.93	39°10'22.007"N	80°53'58.062"W	0.71	349.322	0.12	0.12	4.36	
265.00	0.180	304.720	265.00	0.77	0.75	-0.20	1668910.02	14224862.98	39°10'22.007"N	80°53'58.063"W	0.78	345.202	0.15	-0.12	-26.12	
290.00	0.180	267.840	290.00	0.82	0.77	-0.27	1668909.94	14224863.00	39°10'22.008"N	80°53'58.063"W	0.82	340.728	0.46	0.00	-147.52	
315.00	0.370	285.140	315.00	0.88	0.79	-0.39	1668909.83	14224863.02	39°10'22.008"N	80°53'58.065"W	0.88	333.942	0.82	0.76	69.20	
340.00	0.210	268.150	340.00	0.95	0.81	-0.51	1668909.70	14224863.04	39°10'22.008"N	80°53'58.066"W	0.96	327.804	0.72	-0.64	-67.96	
365.00	0.230	289.090	365.00	1.00	0.83	-0.60	1668909.61	14224863.06	39°10'22.008"N	80°53'58.068"W	1.02	323.830	0.33	0.08	83.76	
390.00	0.310	271.380	390.00	1.06	0.84	-0.72	1668909.49	14224863.08	39°10'22.008"N	80°53'58.069"W	1.11	319.579	0.46	0.32	-70.84	
415.00	0.370	277.460	415.00	1.13	0.86	-0.87	1668909.35	14224863.09	39°10'22.008"N	80°53'58.071"W	1.22	314.657	0.28	0.24	24.32	
440.00	0.380	277.250	440.00	1.22	0.88	-1.03	1668909.19	14224863.11	39°10'22.009"N	80°53'58.073"W	1.35	310.451	0.04	0.04	-0.84	
465.00	0.480	281.870	465.00	1.32	0.91	-1.21	1668909.00	14224863.14	39°10'22.009"N	80°53'58.075"W	1.52	306.841	0.42	0.40	18.48	
467.00	0.360	284.940	467.00	1.33	0.91	-1.23	1668908.99	14224863.14	39°10'22.009"N	80°53'58.076"W	1.53	306.621	6.10	-6.00	153.50	
541.00	0.240	264.030	540.99	1.52	0.96	-1.61	1668908.61	14224863.19	39°10'22.009"N	80°53'58.080"W	1.87	300.765	0.22	-0.16	-28.26	WFT EM <12-1/4">(452')/526'-2487')
633.00	0.440	225.520	632.99	1.46	0.69	-2.05	1668908.16	14224862.92	39°10'22.007"N	80°53'58.086"W	2.16	288.573	0.32	0.22	-41.86	
726.00	0.370	254.740	725.99	1.37	0.36	-2.59	1668907.62	14224862.59	39°10'22.004"N	80°53'58.093"W	2.62	277.892	0.23	-0.08	31.42	
820.00	0.290	229.660	819.99	1.35	0.13	-3.07	1668907.15	14224862.36	39°10'22.001"N	80°53'58.099"W	3.07	272.348	0.17	-0.09	-26.68	
917.00	0.270	271.480	916.99	1.38	-0.03	-3.48	1668906.73	14224862.21	39°10'22.000"N	80°53'58.104"W	3.48	269.554	0.21	-0.02	43.11	
1012.00	0.590	258.720	1011.99	1.58	-0.12	-4.19	1668906.03	14224862.12	39°10'21.999"N	80°53'58.113"W	4.19	268.399	0.35	0.34	-13.43	
1107.00	0.890	258.010	1106.98	1.84	-0.37	-5.39	1668904.83	14224861.87	39°10'21.996"N	80°53'58.128"W	5.40	266.115	0.32	0.32	-0.75	
1202.00	1.040	277.920	1201.96	2.44	-0.40	-6.97	1668903.25	14224861.83	39°10'21.996"N	80°53'58.148"W	6.98	266.709	0.38	0.16	20.96	
1297.00	0.860	281.790	1296.95	3.31	-0.14	-8.52	1668901.70	14224862.10	39°10'21.999"N	80°53'58.168"W	8.52	269.085	0.20	-0.19	4.07	
1392.00	0.910	270.400	1391.94	4.03	0.01	-9.97	1668900.25	14224862.25	39°10'22.000"N	80°53'58.187"W	9.97	270.086	0.19	0.05	-11.99	
1489.00	0.880	277.040	1488.93	4.73	0.11	-11.48	1668898.74	14224862.34	39°10'22.001"N	80°53'58.206"W	11.48	270.557	0.11	-0.03	6.85	
1585.00	1.300	286.420	1584.91	5.81	0.51	-13.25	1668896.96	14224862.74	39°10'22.005"N	80°53'58.228"W	13.26	272.203	0.47	0.44	9.77	

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Page 3 of 12



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Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWB
Facility	Ireland North Pad		

WELLPATH DATA (237 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
1680.00	0.330	259.330	1679.90	6.56	0.76	-14.56	1668895.66	14224863.00	39°10'22.008"N	80°53'58.245"W	14.58	273.003	1.07	-1.02	-28.52	
1775.00	0.680	165.920	1774.90	6.07	0.17	-14.69	1668895.53	14224862.40	39°10'22.002"N	80°53'58.247"W	14.69	270.649	0.81	0.37	-98.33	
1869.00	1.000	186.320	1868.89	4.81	-1.19	-14.64	1668895.58	14224861.04	39°10'21.988"N	80°53'58.246"W	14.69	265.354	0.46	0.34	21.70	
1964.00	0.810	187.120	1963.88	3.51	-2.68	-14.82	1668895.40	14224859.55	39°10'21.974"N	80°53'58.248"W	15.06	259.747	0.20	-0.20	0.84	
2059.00	1.190	187.180	2058.86	2.09	-4.33	-15.02	1668895.19	14224857.91	39°10'21.957"N	80°53'58.251"W	15.64	253.940	0.40	0.40	-0.06	
2154.00	1.200	194.010	2153.84	0.46	-6.27	-15.39	1668894.83	14224855.97	39°10'21.938"N	80°53'58.255"W	16.62	247.835	0.15	0.01	7.19	
2248.00	1.910	163.350	2247.81	-1.87	-8.73	-15.18	1668895.04	14224853.51	39°10'21.914"N	80°53'58.253"W	17.51	240.108	1.14	0.76	-32.62	
2343.00	3.030	156.840	2342.72	-5.95	-12.55	-13.74	1668896.48	14224849.69	39°10'21.876"N	80°53'58.235"W	18.61	227.585	1.21	1.18	-6.85	
2438.00	2.910	149.780	2437.59	-10.86	-16.94	-11.54	1668898.68	14224845.30	39°10'21.833"N	80°53'58.207"W	20.50	214.250	0.40	-0.13	-7.43	
2502.00	2.050	121.880	2501.53	-13.42	-18.95	-9.75	1668900.47	14224843.29	39°10'21.813"N	80°53'58.184"W	21.31	207.216	2.28	-1.34	-43.59	
2675.00	1.430	123.710	2674.45	-17.79	-21.78	-5.32	1668904.89	14224840.46	39°10'21.785"N	80°53'58.128"W	22.42	193.732	0.36	-0.36	1.06	WFT EM <8-3/4">(2487)(2660'-5450')
2770.00	2.790	137.350	2769.38	-20.98	-24.14	-2.77	1668907.44	14224838.10	39°10'21.761"N	80°53'58.096"W	24.30	186.546	1.52	1.43	14.36	
2864.00	3.520	145.190	2863.24	-25.98	-28.19	0.43	1668910.64	14224834.05	39°10'21.721"N	80°53'58.055"W	28.20	179.132	0.90	0.78	8.34	
2959.00	3.970	145.420	2958.04	-32.07	-33.30	3.96	1668914.17	14224828.95	39°10'21.671"N	80°53'58.010"W	33.53	173.220	0.47	0.47	0.24	
3059.00	4.850	152.130	3057.74	-39.69	-39.88	7.90	1668918.11	14224822.36	39°10'21.606"N	80°53'57.960"W	40.66	168.797	1.02	0.88	6.71	
3154.00	5.540	155.850	3152.35	-48.28	-47.62	11.65	1668921.86	14224814.63	39°10'21.529"N	80°53'57.913"W	49.02	166.249	0.81	0.73	3.92	
3249.00	6.910	169.510	3246.79	-58.43	-57.42	14.57	1668924.78	14224804.83	39°10'21.432"N	80°53'57.876"W	59.24	165.763	2.11	1.44	14.38	
3344.00	9.000	173.530	3340.88	-71.09	-70.43	16.45	1668926.65	14224791.83	39°10'21.304"N	80°53'57.852"W	72.32	166.855	2.28	2.20	4.23	
3439.00	10.380	172.270	3434.52	-86.41	-86.29	18.44	1668928.64	14224775.98	39°10'21.147"N	80°53'57.827"W	88.24	167.940	1.47	1.45	-1.33	
3533.00	11.360	170.150	3526.83	-103.54	-103.80	21.16	1668931.36	14224758.47	39°10'20.974"N	80°53'57.793"W	105.94	168.479	1.13	1.04	-2.26	
3628.00	11.150	167.190	3620.00	-121.64	-121.98	24.80	1668935.00	14224740.30	39°10'20.794"N	80°53'57.747"W	124.47	168.509	0.65	-0.22	-3.12	
3723.00	11.580	163.610	3713.14	-140.11	-140.08	29.52	1668939.73	14224722.20	39°10'20.615"N	80°53'57.687"W	143.16	168.099	0.87	0.45	-3.77	
3818.00	11.820	161.050	3806.17	-159.26	-158.43	35.37	1668945.57	14224703.86	39°10'20.434"N	80°53'57.613"W	162.34	167.414	0.60	0.25	-2.69	
3914.00	11.350	158.890	3900.21	-178.50	-176.55	41.97	1668952.17	14224685.76	39°10'20.255"N	80°53'57.530"W	181.47	166.628	0.67	-0.49	-2.25	
4009.00	12.580	158.770	3993.15	-198.17	-194.91	49.08	1668959.28	14224667.40	39°10'20.073"N	80°53'57.440"W	201.00	165.866	1.30	1.29	-0.13	
4104.00	12.580	158.470	4085.87	-218.85	-214.18	56.63	1668966.82	14224648.14	39°10'19.882"N	80°53'57.344"W	221.54	165.191	0.07	0.00	-0.32	
4200.00	12.470	157.010	4179.58	-239.66	-233.45	64.51	1668974.70	14224628.88	39°10'19.692"N	80°53'57.244"W	242.19	164.552	0.35	-0.11	-1.52	
4295.00	12.530	161.100	4272.33	-260.18	-252.64	71.85	1668982.04	14224609.70	39°10'19.502"N	80°53'57.151"W	262.66	164.123	0.93	0.06	4.31	
4390.00	12.440	159.480	4365.09	-280.67	-271.97	78.78	1668988.96	14224590.37	39°10'19.311"N	80°53'57.064"W	283.15	163.846	0.38	-0.09	-1.71	
4485.00	12.680	157.670	4457.81	-301.30	-291.20	86.33	1668996.51	14224571.15	39°10'19.121"N	80°53'56.968"W	303.72	163.487	0.49	0.25	-1.91	

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Page 4 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWP
Facility	Ireland North Pad		

WELLPATH DATA (237 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
4580.00	12.470	159.020	4550.53	-321.97	-310.42	93.96	1669004.14	14224551.94	39°10'18.931"N	80°53'56.871"W	324.33	163.159	0.38	-0.22	1.42	
4675.00	13.050	159.040	4643.19	-342.93	-330.01	101.47	1669011.64	14224532.35	39°10'18.737"N	80°53'56.776"W	345.26	162.909	0.61	0.61	0.02	
4769.00	12.440	157.150	4734.87	-363.65	-349.25	109.20	1669019.37	14224513.12	39°10'18.547"N	80°53'56.678"W	365.93	162.637	0.79	-0.65	-2.01	
4864.00	12.150	158.890	4827.69	-383.87	-368.01	116.77	1669026.94	14224494.37	39°10'18.361"N	80°53'56.582"W	386.09	162.395	0.50	-0.31	1.83	
4959.00	10.930	161.090	4920.77	-402.83	-385.86	123.29	1669033.46	14224476.53	39°10'18.185"N	80°53'56.500"W	405.08	162.280	1.36	-1.28	2.32	
5054.00	11.010	159.820	5014.04	-420.86	-402.89	129.34	1669039.50	14224459.50	39°10'18.016"N	80°53'56.423"W	423.14	162.202	0.27	0.08	-1.34	
5148.00	11.500	157.520	5106.23	-439.19	-419.97	136.02	1669046.18	14224442.43	39°10'17.848"N	80°53'56.339"W	441.45	162.054	0.71	0.52	-2.45	
5243.00	10.480	159.990	5199.49	-457.28	-436.84	142.60	1669052.75	14224425.56	39°10'17.681"N	80°53'56.256"W	459.53	161.922	1.18	-1.07	2.60	
5339.00	10.760	163.520	5293.84	-474.88	-453.64	148.13	1669058.28	14224408.77	39°10'17.515"N	80°53'56.186"W	477.21	161.917	0.74	0.29	3.68	
5433.00	11.190	161.350	5386.12	-492.67	-470.70	153.53	1669063.69	14224391.72	39°10'17.346"N	80°53'56.117"W	495.10	161.935	0.63	0.46	-2.31	
5465.00	11.670	161.570	5417.49	-498.98	-476.71	155.55	1669065.70	14224385.71	39°10'17.287"N	80°53'56.092"W	501.45	161.929	1.51	1.50	0.65	
5506.00	12.420	160.590	5457.59	-507.51	-484.80	158.33	1669068.48	14224377.62	39°10'17.207"N	80°53'56.057"W	510.00	161.914	1.90	1.83	-2.39	BH AT Curve <8-1/2"> (5465')(5506'-18879')
5513.00	12.470	160.910	5464.42	-509.01	-486.23	158.82	1669068.97	14224376.20	39°10'17.192"N	80°53'56.050"W	511.51	161.911	1.22	0.71	4.57	
5560.00	11.000	163.920	5510.44	-518.52	-495.33	161.72	1669071.87	14224367.10	39°10'17.102"N	80°53'56.014"W	521.06	161.918	3.39	-3.13	6.40	
5608.00	9.190	166.830	5557.69	-526.82	-503.46	163.87	1669074.01	14224358.97	39°10'17.022"N	80°53'55.986"W	529.46	161.971	3.92	-3.77	6.06	
5654.00	6.570	172.860	5603.26	-532.96	-509.65	165.03	1669075.18	14224352.78	39°10'16.961"N	80°53'55.972"W	535.71	162.058	5.96	-5.70	13.11	
5701.00	3.360	191.230	5650.08	-536.66	-513.67	165.10	1669075.24	14224348.76	39°10'16.921"N	80°53'55.971"W	539.55	162.182	7.54	-6.83	39.03	
5748.00	2.080	268.470	5697.03	-537.47	-515.05	163.98	1669074.12	14224347.39	39°10'16.908"N	80°53'55.985"W	540.52	162.340	7.53	-2.72	164.34	
5796.00	4.440	312.360	5744.96	-535.44	-513.82	161.73	1669071.88	14224348.62	39°10'16.920"N	80°53'56.014"W	538.67	162.528	6.82	4.92	91.44	
5843.00	8.330	324.540	5791.66	-530.44	-509.82	158.41	1669068.56	14224352.62	39°10'16.959"N	80°53'56.056"W	533.86	162.739	8.72	8.28	25.91	
5890.00	11.490	326.070	5837.95	-522.50	-503.16	153.82	1669063.97	14224359.27	39°10'17.025"N	80°53'56.114"W	526.15	163.001	6.75	6.72	3.26	
5937.00	14.820	326.640	5883.71	-511.96	-494.25	147.90	1669058.06	14224368.18	39°10'17.113"N	80°53'56.189"W	515.91	163.341	7.09	7.09	1.21	
5985.00	18.530	328.320	5929.69	-498.35	-482.63	140.52	1669050.67	14224379.80	39°10'17.228"N	80°53'56.283"W	502.67	163.767	7.79	7.73	3.50	
6034.00	23.120	329.160	5975.47	-481.08	-467.74	131.49	1669041.65	14224394.68	39°10'17.375"N	80°53'56.397"W	485.87	164.298	9.39	9.37	1.71	
6081.00	27.920	331.880	6017.88	-460.94	-450.10	121.57	1669031.73	14224412.32	39°10'17.550"N	80°53'56.523"W	466.23	164.885	10.51	10.21	5.79	
6128.00	32.950	335.880	6058.39	-437.17	-428.71	111.15	1669021.32	14224433.69	39°10'17.761"N	80°53'56.655"W	442.89	165.465	11.53	10.70	8.51	
6175.00	36.990	338.840	6096.90	-410.25	-403.85	100.82	1669010.99	14224458.55	39°10'18.007"N	80°53'56.786"W	416.24	165.983	9.32	8.60	6.30	
6222.00	41.180	336.900	6133.38	-380.64	-376.42	89.64	1668999.82	14224485.97	39°10'18.279"N	80°53'56.927"W	386.94	166.605	9.29	8.91	-4.13	
6270.00	44.660	334.050	6168.53	-347.97	-346.70	76.05	1668986.24	14224515.67	39°10'18.572"N	80°53'57.099"W	354.94	167.628	8.30	7.25	-5.94	
6317.00	48.790	332.750	6200.74	-313.80	-316.12	60.72	1668970.91	14224546.24	39°10'18.875"N	80°53'57.293"W	321.90	169.127	9.01	8.79	-2.77	

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'
Page 5 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWB
Facility	Ireland North Pad		

WELLPATH DATA (237 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
6318.00†	48.878	332.774	6201.40	-313.05	-315.45	60.38	1668970.57	14224546.91	39°10'18.881"N	80°53'57.298"W	321.17	169.164	9.02	8.84	2.37	Middlesex: 6318' MD
6364.00	52.950	333.800	6230.39	-277.40	-283.56	44.34	1668954.54	14224578.79	39°10'19.197"N	80°53'57.501"W	287.00	171.113	9.02	8.85	2.23	
6411.00	57.700	335.200	6257.13	-238.78	-248.67	27.72	1668937.92	14224613.66	39°10'19.542"N	80°53'57.712"W	250.21	173.640	10.40	10.11	2.98	
6459.00	62.250	335.780	6281.14	-197.23	-210.87	10.49	1668920.69	14224651.45	39°10'19.916"N	80°53'57.930"W	211.13	177.153	9.54	9.48	1.21	
6506.00	66.990	336.430	6301.28	-154.78	-172.05	-6.71	1668903.51	14224690.25	39°10'20.300"N	80°53'58.148"W	172.18	182.232	10.16	10.09	1.38	
6522.00†	68.394	336.999	6307.35	-139.98	-158.46	-12.56	1668897.66	14224703.84	39°10'20.434"N	80°53'58.222"W	158.95	184.531	9.37	8.78	3.55	Burkett: 6522' MD
6553.00	71.120	338.070	6318.08	-110.91	-131.58	-23.67	1668886.56	14224730.70	39°10'20.700"N	80°53'58.362"W	133.69	190.197	9.37	8.79	3.46	
6600.00	74.740	340.220	6331.87	-66.04	-89.60	-39.65	1668870.58	14224772.67	39°10'21.115"N	80°53'58.565"W	97.98	203.871	8.66	7.70	4.57	
6642.00†	77.951	340.097	6341.78	-25.33	-51.22	-53.50	1668856.73	14224811.04	39°10'21.494"N	80°53'58.740"W	74.07	226.250	7.65	7.65	-0.29	Tully: 6642' MD
6648.00	78.410	340.080	6343.01	-19.47	-45.70	-55.50	1668854.73	14224816.56	39°10'21.549"N	80°53'58.765"W	71.89	230.535	7.65	7.65	-0.29	
6695.00	81.380	337.370	6351.26	26.75	-2.59	-72.29	1668837.95	14224859.64	39°10'21.975"N	80°53'58.978"W	72.34	267.949	8.49	6.32	-5.77	
6742.00	83.150	335.530	6357.59	73.31	40.10	-90.90	1668819.35	14224902.32	39°10'22.397"N	80°53'59.214"W	99.35	293.804	5.41	3.77	-3.91	
6762.00†	83.176	335.543	6359.97	93.17	58.18	-99.12	1668811.13	14224920.38	39°10'22.576"N	80°53'59.318"W	114.93	300.408	0.14	0.13	0.06	Marcellus POE: 6762' MD
6789.00	83.210	335.560	6363.17	119.98	82.58	-110.22	1668800.04	14224944.78	39°10'22.817"N	80°53'59.458"W	137.72	306.842	0.14	0.13	0.06	
6837.00	84.050	336.430	6368.49	167.68	126.16	-129.63	1668780.64	14224988.34	39°10'23.248"N	80°53'59.704"W	180.88	314.223	2.51	1.75	1.81	
6884.00	84.850	337.320	6373.04	214.46	169.18	-148.00	1668762.28	14225031.34	39°10'23.674"N	80°53'59.937"W	224.78	318.820	2.54	1.70	1.89	
6931.00	86.030	337.920	6376.78	261.29	212.50	-165.84	1668744.44	14225074.65	39°10'24.102"N	80°54'00.163"W	269.55	322.031	2.81	2.51	1.28	
6978.00	87.260	339.690	6379.53	308.16	256.24	-182.80	1668727.49	14225118.37	39°10'24.535"N	80°54'00.377"W	314.76	324.497	4.58	2.62	3.77	
7026.00	88.430	340.800	6381.33	356.01	301.38	-199.01	1668711.28	14225163.50	39°10'24.981"N	80°54'00.583"W	361.16	326.563	3.36	2.44	2.31	
7073.00	90.060	341.480	6381.95	402.83	345.86	-214.20	1668696.10	14225207.95	39°10'25.421"N	80°54'00.775"W	406.81	328.229	3.76	3.47	1.45	
7120.00	91.050	339.590	6381.50	449.70	390.16	-229.86	1668680.44	14225252.24	39°10'25.859"N	80°54'00.973"W	452.84	329.496	4.54	2.11	-4.02	
7214.00	92.740	335.530	6378.39	543.60	476.98	-265.71	1668644.61	14225339.02	39°10'26.717"N	80°54'01.427"W	546.00	330.879	4.68	1.80	-4.32	
7309.00	90.430	329.390	6375.76	638.30	561.13	-309.60	1668600.74	14225423.14	39°10'27.550"N	80°54'01.983"W	640.88	331.113	6.90	-2.43	-6.46	
7403.00	91.600	328.020	6374.09	731.47	641.44	-358.42	1668551.94	14225503.42	39°10'28.344"N	80°54'02.602"W	734.79	330.805	1.92	1.24	-1.46	
7498.00	89.880	324.810	6372.86	825.05	720.56	-410.96	1668499.42	14225582.51	39°10'29.126"N	80°54'03.268"W	829.52	330.303	3.83	-1.81	-3.38	
7593.00	88.890	330.630	6373.88	918.95	800.84	-461.67	1668448.73	14225662.75	39°10'29.920"N	80°54'03.911"W	924.38	330.038	6.21	-1.04	6.13	
7687.00	90.460	335.410	6374.42	1012.77	884.58	-504.30	1668406.12	14225746.46	39°10'30.749"N	80°54'04.451"W	1018.23	330.313	5.35	1.67	5.09	
7782.00	91.420	333.250	6372.86	1107.70	970.19	-545.44	1668364.99	14225832.03	39°10'31.595"N	80°54'04.972"W	1113.00	330.655	2.49	1.01	-2.27	
7876.00	90.280	328.960	6371.46	1201.29	1052.46	-590.85	1668319.60	14225914.27	39°10'32.409"N	80°54'05.548"W	1206.96	330.690	4.72	-1.21	-4.56	
7970.00	89.410	332.940	6371.72	1294.86	1134.61	-636.48	1668273.99	14225996.39	39°10'33.221"N	80°54'06.126"W	1300.94	330.709	4.33	-0.93	4.23	

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'

Page 6 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWP
Facility	Ireland North Pad		

WELLPATH DATA (237 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
8065.00	90.800	342.830	6371.54	1389.71	1222.51	-672.20	1668238.28	14226084.25	39°10'34.090"N	80°54'06.578"W	1395.13	331.196	10.51	1.46	10.41	
8160.00	90.770	339.760	6370.24	1484.32	1312.48	-702.66	1668207.84	14226174.18	39°10'34.980"N	80°54'06.964"W	1488.73	331.837	3.23	-0.03	-3.23	
8254.00	90.950	338.270	6368.83	1578.19	1400.23	-736.32	1668174.19	14226261.90	39°10'35.848"N	80°54'07.390"W	1582.03	332.262	1.60	0.19	-1.59	
8349.00	90.710	335.750	6367.45	1673.17	1487.67	-773.42	1668137.11	14226349.30	39°10'36.712"N	80°54'07.860"W	1676.70	332.531	2.66	-0.25	-2.65	
8443.00	90.120	339.590	6366.77	1767.12	1574.60	-809.12	1668101.42	14226436.20	39°10'37.572"N	80°54'08.312"W	1770.32	332.803	4.13	-0.63	-4.09	
8538.00	90.580	345.320	6366.19	1861.52	1665.14	-837.75	1668072.80	14226526.70	39°10'38.467"N	80°54'08.674"W	1864.00	333.293	6.05	0.48	6.03	
8632.00	91.020	340.720	6364.88	1954.83	1755.01	-865.19	1668045.37	14226616.54	39°10'39.356"N	80°54'09.022"W	1956.68	333.757	4.92	0.47	-4.89	
8727.00	91.820	334.920	6362.52	2049.73	1842.91	-901.03	1668009.55	14226704.41	39°10'40.225"N	80°54'09.476"W	2051.38	333.945	6.16	0.84	-6.11	
8821.00	90.430	333.920	6360.68	2143.66	1927.68	-941.60	1667968.99	14226789.14	39°10'41.063"N	80°54'09.990"W	2145.36	333.966	1.82	-1.48	-1.06	
8916.00	90.490	334.510	6359.91	2238.59	2013.22	-982.93	1667927.68	14226874.64	39°10'41.909"N	80°54'10.513"W	2240.36	333.977	0.62	0.06	0.62	
9010.00	90.550	337.260	6359.06	2332.58	2099.00	-1021.33	1667889.30	14226960.39	39°10'42.757"N	80°54'11.000"W	2334.29	334.054	2.93	0.06	2.93	
9104.00	90.550	338.390	6358.16	2426.54	2186.04	-1056.80	1667853.83	14227047.40	39°10'43.618"N	80°54'11.449"W	2428.09	334.199	1.20	0.00	1.20	
9199.00	90.550	338.090	6357.25	2521.47	2274.27	-1092.02	1667818.63	14227135.59	39°10'44.490"N	80°54'11.895"W	2522.86	334.351	0.32	0.00	-0.32	
9293.00	90.490	336.470	6356.39	2615.45	2360.97	-1128.32	1667782.34	14227222.26	39°10'45.348"N	80°54'12.355"W	2616.73	334.457	1.72	-0.06	-1.72	
9388.00	90.520	335.090	6355.56	2710.44	2447.60	-1167.29	1667743.39	14227308.85	39°10'46.204"N	80°54'12.849"W	2711.70	334.503	1.45	0.03	-1.45	
9483.00	90.520	334.480	6354.69	2805.41	2533.55	-1207.76	1667702.93	14227394.76	39°10'47.054"N	80°54'13.361"W	2806.70	334.512	0.64	0.00	-0.64	
9578.00	90.520	334.430	6353.83	2900.36	2619.26	-1248.73	1667661.99	14227480.44	39°10'47.902"N	80°54'13.880"W	2901.69	334.511	0.05	0.00	-0.05	
9673.00	90.520	334.340	6352.97	2995.30	2704.92	-1289.80	1667620.93	14227566.06	39°10'48.749"N	80°54'14.401"W	2996.69	334.507	0.09	0.00	-0.09	
9768.00	90.490	332.670	6352.13	3090.19	2789.93	-1332.17	1667578.57	14227651.05	39°10'49.590"N	80°54'14.938"W	3091.67	334.476	1.76	-0.03	-1.76	
9862.00	90.460	332.160	6351.35	3183.97	2873.24	-1375.70	1667535.06	14227734.32	39°10'50.414"N	80°54'15.489"W	3185.61	334.415	0.54	-0.03	-0.54	
9957.00	90.490	333.950	6350.57	3278.82	2957.93	-1418.75	1667492.04	14227818.97	39°10'51.251"N	80°54'16.035"W	3280.57	334.376	1.88	0.03	1.88	
10052.00	90.430	335.910	6349.80	3373.79	3043.97	-1459.00	1667451.80	14227904.98	39°10'52.102"N	80°54'16.545"W	3375.56	334.391	2.06	-0.06	2.06	
10147.00	90.340	336.540	6349.16	3468.78	3130.90	-1497.29	1667413.52	14227991.88	39°10'52.962"N	80°54'17.030"W	3470.51	334.441	0.67	-0.09	0.66	
10241.00	90.520	337.390	6348.46	3562.77	3217.41	-1534.07	1667376.75	14228078.35	39°10'53.817"N	80°54'17.496"W	3564.42	334.508	0.92	0.19	0.90	
10336.00	90.460	338.570	6347.65	3657.72	3305.47	-1569.69	1667341.15	14228166.38	39°10'54.688"N	80°54'17.947"W	3659.24	334.598	1.24	-0.06	1.24	
10430.00	90.550	338.240	6346.82	3751.65	3392.87	-1604.29	1667306.57	14228253.74	39°10'55.552"N	80°54'18.385"W	3753.04	334.693	0.36	0.10	-0.35	
10525.00	90.460	339.800	6345.98	3846.54	3481.57	-1638.30	1667272.57	14228342.40	39°10'56.429"N	80°54'18.816"W	3847.77	334.800	1.64	-0.09	1.64	
10619.00	90.680	340.270	6345.05	3940.33	3569.91	-1670.39	1667240.49	14228430.71	39°10'57.302"N	80°54'19.222"W	3941.38	334.925	0.55	0.23	0.50	
10714.00	90.650	338.160	6343.94	4035.19	3658.72	-1704.10	1667206.80	14228519.48	39°10'58.181"N	80°54'19.649"W	4036.11	335.026	2.22	-0.03	-2.22	
10808.00	90.490	335.710	6343.01	4129.17	3745.19	-1740.92	1667169.99	14228605.92	39°10'59.036"N	80°54'20.116"W	4130.04	335.069	2.61	-0.17	-2.61	

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'
Page 7 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWP
Facility	Ireland North Pad		

WELLPATH DATA (237 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
10903.00	90.550	339.090	6342.15	4224.13	3832.88	-1777.42	1667133.50	14228693.58	39°10'59.903"N	80°54'20.578"W	4224.95	335.121	3.56	0.06	3.56	
10997.00	90.460	339.780	6341.32	4317.98	3920.89	-1810.44	1667100.50	14228781.55	39°11'00.773"N	80°54'20.996"W	4318.69	335.215	0.74	-0.10	0.73	
11092.00	90.740	337.770	6340.32	4412.88	4009.43	-1844.83	1667066.12	14228870.06	39°11'01.648"N	80°54'21.432"W	4413.50	335.292	2.14	0.29	-2.12	
11186.00	90.340	337.610	6339.44	4506.84	4096.39	-1880.51	1667030.46	14228956.98	39°11'02.508"N	80°54'21.884"W	4507.41	335.342	0.46	-0.43	-0.17	
11281.00	89.080	334.820	6339.92	4601.83	4183.31	-1918.82	1666992.16	14229043.87	39°11'03.368"N	80°54'22.369"W	4602.39	335.360	3.22	-1.33	-2.94	
11376.00	90.580	336.490	6340.20	4696.82	4269.86	-1957.98	1666953.02	14229130.38	39°11'04.224"N	80°54'22.865"W	4697.38	335.366	2.36	1.58	1.76	
11470.00	90.030	335.630	6339.70	4790.82	4355.77	-1996.12	1666914.89	14229216.26	39°11'05.073"N	80°54'23.349"W	4791.37	335.379	1.09	-0.59	-0.91	
11565.00	90.000	339.090	6339.67	4885.79	4443.44	-2032.69	1666878.34	14229303.89	39°11'05.940"N	80°54'23.812"W	4886.30	335.418	3.64	-0.03	3.64	
11659.00	90.030	339.310	6339.65	4979.66	4531.31	-2066.07	1666844.98	14229391.72	39°11'06.809"N	80°54'24.235"W	4980.10	335.489	0.24	0.03	0.23	
11754.00	90.060	338.940	6339.57	5074.54	4620.07	-2099.92	1666811.14	14229480.45	39°11'07.687"N	80°54'24.663"W	5074.91	335.557	0.39	0.03	-0.39	
11848.00	89.940	338.720	6339.57	5168.45	4707.73	-2133.86	1666777.21	14229568.07	39°11'08.553"N	80°54'25.093"W	5168.76	335.617	0.27	-0.13	-0.23	
11943.00	90.150	337.370	6339.50	5263.40	4795.84	-2169.38	1666741.70	14229656.15	39°11'09.424"N	80°54'25.543"W	5263.68	335.661	1.44	0.22	-1.42	
12037.00	90.120	334.350	6339.28	5357.38	4881.61	-2207.82	1666703.28	14229741.88	39°11'10.273"N	80°54'26.030"W	5357.66	335.664	3.21	-0.03	-3.21	
12132.00	90.030	333.680	6339.15	5452.31	4967.00	-2249.44	1666661.67	14229827.24	39°11'11.117"N	80°54'26.558"W	5452.62	335.635	0.71	-0.09	-0.71	
12227.00	90.000	332.790	6339.13	5547.18	5051.82	-2292.22	1666618.91	14229912.03	39°11'11.956"N	80°54'27.100"W	5547.54	335.594	0.94	-0.03	-0.94	
12321.00	89.940	333.880	6339.18	5641.06	5135.83	-2334.41	1666576.74	14229996.00	39°11'12.787"N	80°54'27.635"W	5641.47	335.557	1.16	-0.06	1.16	
12416.00	89.940	334.700	6339.28	5736.00	5221.42	-2375.62	1666535.55	14230081.56	39°11'13.633"N	80°54'28.157"W	5736.44	335.536	0.86	0.00	0.86	
12510.00	90.490	337.270	6338.93	5829.99	5307.28	-2413.87	1666497.31	14230167.38	39°11'14.482"N	80°54'28.642"W	5830.43	335.543	2.80	0.59	2.73	
12605.00	90.400	336.540	6338.19	5924.98	5394.66	-2451.13	1666460.06	14230254.73	39°11'15.346"N	80°54'29.114"W	5925.40	335.565	0.77	-0.09	-0.77	
12699.00	90.370	337.390	6337.56	6018.97	5481.16	-2487.92	1666423.30	14230341.19	39°11'16.201"N	80°54'29.580"W	6019.37	335.587	0.90	-0.03	0.90	
12794.00	90.490	341.640	6336.84	6113.79	5570.13	-2521.15	1666390.07	14230430.13	39°11'17.081"N	80°54'30.001"W	6114.13	335.648	4.48	0.13	4.47	
12888.00	90.310	343.000	6336.19	6207.26	5659.69	-2549.70	1666361.54	14230519.65	39°11'17.966"N	80°54'30.362"W	6207.50	335.748	1.46	-0.19	1.45	
12983.00	90.400	342.150	6335.60	6301.68	5750.32	-2578.15	1666333.10	14230610.25	39°11'18.863"N	80°54'30.722"W	6301.83	335.851	0.90	0.09	-0.89	
13078.00	90.370	342.570	6334.96	6396.14	5840.85	-2606.93	1666304.32	14230700.74	39°11'19.758"N	80°54'31.087"W	6396.22	335.947	0.44	-0.03	0.44	
13172.00	90.460	338.480	6334.28	6489.85	5929.46	-2638.27	1666273.01	14230789.31	39°11'20.634"N	80°54'31.483"W	6489.91	336.014	4.35	0.10	-4.35	
13267.00	90.370	335.430	6333.59	6584.83	6016.86	-2675.45	1666235.84	14230876.68	39°11'21.498"N	80°54'31.955"W	6584.88	336.027	3.21	-0.09	-3.21	
13361.00	90.370	333.390	6332.98	6678.78	6101.63	-2716.05	1666195.26	14230961.42	39°11'22.336"N	80°54'32.469"W	6678.84	336.005	2.17	0.00	-2.17	
13456.00	90.310	332.250	6332.42	6773.60	6186.14	-2759.44	1666151.88	14231045.89	39°11'23.172"N	80°54'33.019"W	6773.69	335.960	1.20	-0.06	-1.20	
13550.00	90.310	332.970	6331.91	6867.41	6269.60	-2802.68	1666108.65	14231129.32	39°11'23.997"N	80°54'33.567"W	6867.53	335.914	0.77	0.00	0.77	
13645.00	90.280	332.660	6331.42	6962.24	6354.11	-2846.09	1666065.27	14231213.79	39°11'24.833"N	80°54'34.117"W	6962.39	335.872	0.33	-0.03	-0.33	

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'

Page 8 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWP
Facility	Ireland North Pad		

WELLPATH DATA (237 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
13739.00	90.550	333.610	6330.74	7056.10	6437.96	-2888.56	1666022.81	14231297.61	39°11'25.662"N	80°54'34.656"W	7056.28	335.835	1.05	0.29	1.01	
13833.00	89.970	332.630	6330.31	7149.95	6521.80	-2931.06	1665980.33	14231381.42	39°11'26.491"N	80°54'35.195"W	7150.17	335.800	1.21	-0.62	-1.04	
13928.00	91.510	337.100	6329.09	7244.89	6607.77	-2971.40	1665940.01	14231467.35	39°11'27.341"N	80°54'35.706"W	7245.13	335.787	4.98	1.62	4.71	
14022.00	90.120	336.600	6327.75	7338.87	6694.19	-3008.35	1665903.07	14231553.74	39°11'28.196"N	80°54'36.174"W	7339.10	335.801	1.57	-1.48	-0.53	
14117.00	90.220	336.420	6327.47	7433.87	6781.32	-3046.21	1665865.22	14231640.83	39°11'29.058"N	80°54'36.654"W	7434.09	335.810	0.22	0.11	-0.19	
14211.00	90.830	337.140	6326.61	7527.86	6867.70	-3083.27	1665828.18	14231727.18	39°11'29.912"N	80°54'37.123"W	7528.07	335.822	1.00	0.65	0.77	
14306.00	90.000	335.540	6325.92	7622.86	6954.71	-3121.39	1665790.07	14231814.15	39°11'30.772"N	80°54'37.606"W	7623.06	335.829	1.90	-0.87	-1.68	
14400.00	89.820	335.230	6326.07	7716.85	7040.17	-3160.55	1665750.93	14231899.58	39°11'31.617"N	80°54'38.103"W	7717.06	335.823	0.38	-0.19	-0.33	
14494.00	89.880	334.080	6326.31	7810.81	7125.12	-3200.78	1665710.71	14231984.49	39°11'32.457"N	80°54'38.613"W	7811.04	335.809	1.23	0.06	-1.22	
14589.00	89.750	332.590	6326.62	7905.68	7210.01	-3243.42	1665668.10	14232069.35	39°11'33.297"N	80°54'39.153"W	7905.95	335.779	1.57	-0.14	-1.57	
14684.00	89.690	331.010	6327.08	8000.39	7293.73	-3288.31	1665623.23	14232153.04	39°11'34.124"N	80°54'39.722"W	8000.72	335.732	1.66	-0.06	-1.66	
14778.00	89.690	331.540	6327.59	8094.03	7376.16	-3333.48	1665578.07	14232235.44	39°11'34.940"N	80°54'40.295"W	8094.43	335.681	0.56	0.00	0.56	
14872.00	89.780	333.320	6328.03	8187.82	7459.48	-3376.99	1665534.58	14232318.72	39°11'35.764"N	80°54'40.846"W	8188.28	335.643	1.90	0.10	1.89	
14967.00	89.660	333.690	6328.49	8282.71	7544.50	-3419.37	1665492.22	14232403.71	39°11'36.604"N	80°54'41.384"W	8283.21	335.619	0.41	-0.13	0.39	
15061.00	89.850	333.980	6328.89	8376.63	7628.87	-3460.82	1665450.78	14232488.04	39°11'37.439"N	80°54'41.909"W	8377.17	335.599	0.37	0.20	0.31	
15156.00	89.660	336.040	6329.30	8471.60	7714.97	-3500.95	1665410.67	14232574.11	39°11'38.290"N	80°54'42.418"W	8472.16	335.592	2.18	-0.20	2.17	
15250.00	89.720	337.760	6329.81	8565.59	7801.43	-3537.83	1665373.81	14232660.53	39°11'39.145"N	80°54'42.885"W	8566.13	335.606	1.83	0.06	1.83	
15345.00	89.570	337.100	6330.40	8660.56	7889.15	-3574.29	1665337.36	14232748.22	39°11'40.012"N	80°54'43.347"W	8661.08	335.626	0.71	-0.16	-0.69	
15439.00	89.750	336.280	6330.95	8754.56	7975.48	-3611.48	1665300.18	14232834.51	39°11'40.866"N	80°54'43.818"W	8755.06	335.638	0.89	0.19	-0.87	
15534.00	90.340	340.250	6330.88	8849.48	8063.71	-3646.66	1665265.02	14232922.70	39°11'41.738"N	80°54'44.264"W	8849.94	335.666	4.22	0.62	4.18	
15628.00	89.780	340.040	6330.78	8943.26	8152.12	-3678.58	1665233.11	14233011.08	39°11'42.612"N	80°54'44.669"W	8943.66	335.713	0.64	-0.60	-0.22	
15723.00	89.690	336.600	6331.22	9038.19	8240.38	-3713.67	1665198.03	14233099.31	39°11'43.485"N	80°54'45.113"W	9038.54	335.740	3.62	-0.09	-3.62	
15817.00	89.850	333.600	6331.60	9132.16	8325.63	-3753.24	1665158.48	14233184.53	39°11'44.328"N	80°54'45.615"W	9132.53	335.734	3.20	0.17	-3.19	
15912.00	89.630	334.520	6332.03	9227.08	8411.06	-3794.80	1665116.94	14233269.92	39°11'45.173"N	80°54'46.141"W	9227.48	335.717	1.00	-0.23	0.97	
16006.00	89.660	336.430	6332.61	9321.07	8496.58	-3833.81	1665077.94	14233355.40	39°11'46.018"N	80°54'46.636"W	9321.48	335.714	2.03	0.03	2.03	
16101.00	89.850	336.050	6333.02	9416.07	8583.52	-3872.09	1665039.68	14233442.31	39°11'46.878"N	80°54'47.121"W	9416.47	335.720	0.45	0.20	-0.40	
16195.00	89.600	336.680	6333.47	9510.07	8669.64	-3909.78	1665002.01	14233528.39	39°11'47.730"N	80°54'47.599"W	9510.46	335.726	0.72	-0.27	0.67	
16290.00	90.120	338.140	6333.70	9605.04	8757.34	-3946.27	1664965.53	14233616.06	39°11'48.597"N	80°54'48.061"W	9605.42	335.743	1.63	0.55	1.54	
16384.00	90.400	340.580	6333.27	9698.90	8845.30	-3979.40	1664932.41	14233703.99	39°11'49.467"N	80°54'48.481"W	9699.23	335.778	2.61	0.30	2.60	
16479.00	90.060	342.130	6332.89	9793.52	8935.31	-4009.77	1664902.05	14233793.96	39°11'50.357"N	80°54'48.866"W	9793.78	335.832	1.67	-0.36	1.63	

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'
Page 9 of 12



REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Slot	Slot #02
Area	Ritchie County, WV		Well	Pritchard Unit 2H
Field	Ritchie		Wellbore	Pritchard Unit 2H AWP
Facility	Ireland North Pad			

WELLPATH DATA (237 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
16573.00	90.650	342.800	6332.31	9886.96	9024.94	-4038.09	1664873.74	14233883.56	39°11'51.243"N	80°54'49.224"W	9687.15	335.895	0.95	0.63	0.71	
16668.00	89.780	341.120	6331.95	9981.48	9115.27	-4067.51	1664844.34	14233973.84	39°11'52.136"N	80°54'49.597"W	9981.62	335.952	1.99	-0.92	-1.77	
16762.00	89.720	338.220	6332.36	10075.31	9203.40	-4100.16	1664811.70	14234061.94	39°11'53.007"N	80°54'50.010"W	10075.41	335.987	3.09	-0.06	-3.09	
16857.00	89.820	336.910	6332.75	10170.28	9291.21	-4136.42	1664775.46	14234149.72	39°11'53.875"N	80°54'50.470"W	10170.37	336.002	1.38	0.11	-1.38	
16951.00	89.750	336.530	6333.10	10264.27	9377.56	-4173.57	1664738.32	14234236.03	39°11'54.729"N	80°54'50.941"W	10264.37	336.008	0.41	-0.07	-0.40	
17046.00	89.750	335.260	6333.51	10359.27	9464.27	-4212.36	1664699.54	14234322.71	39°11'55.587"N	80°54'51.433"W	10359.36	336.007	1.34	0.00	-1.34	
17140.00	89.200	332.260	6334.37	10453.17	9548.57	-4253.92	1664658.00	14234406.97	39°11'56.420"N	80°54'51.959"W	10453.26	335.987	3.24	-0.59	-3.19	
17235.00	89.750	330.770	6335.24	10547.83	9632.06	-4299.22	1664612.71	14234490.43	39°11'57.246"N	80°54'52.534"W	10547.98	335.947	1.67	0.58	-1.57	
17329.00	89.720	330.500	6335.68	10641.38	9713.98	-4345.32	1664566.64	14234572.32	39°11'58.056"N	80°54'53.118"W	10641.58	335.900	0.29	-0.03	-0.29	
17424.00	89.750	330.120	6336.12	10735.87	9796.51	-4392.37	1664519.60	14234654.81	39°11'58.872"N	80°54'53.715"W	10736.13	335.850	0.40	0.03	-0.40	
17518.00	89.720	329.880	6336.55	10829.31	9877.92	-4439.37	1664472.62	14234736.19	39°11'59.677"N	80°54'54.311"W	10829.65	335.800	0.26	-0.03	-0.26	
17613.00	89.880	330.870	6336.89	10923.81	9960.50	-4486.33	1664425.68	14234818.73	39°12'00.494"N	80°54'54.907"W	10924.22	335.753	1.06	0.17	1.04	
17708.00	89.630	333.340	6337.29	11018.55	10044.45	-4530.77	1664381.26	14234902.65	39°12'01.324"N	80°54'55.470"W	11019.02	335.721	2.61	-0.26	2.60	
17802.00	89.690	335.430	6337.85	11112.50	10129.21	-4571.41	1664340.64	14234987.38	39°12'02.162"N	80°54'55.985"W	11112.99	335.710	2.22	0.06	2.22	
17896.00	90.030	337.720	6338.08	11206.49	10215.45	-4608.77	1664303.29	14235073.59	39°12'03.015"N	80°54'56.459"W	11206.97	335.717	2.46	0.36	2.44	
17991.00	89.940	339.220	6338.10	11301.42	10303.82	-4643.64	1664268.44	14235161.92	39°12'03.889"N	80°54'56.901"W	11301.86	335.740	1.58	-0.09	1.58	
18086.00	89.940	339.900	6338.20	11396.26	10392.84	-4676.81	1664235.28	14235250.90	39°12'04.769"N	80°54'57.321"W	11396.65	335.772	0.72	0.00	0.72	
18180.00	90.000	340.610	6338.25	11490.03	10481.31	-4708.57	1664203.53	14235339.34	39°12'05.644"N	80°54'57.723"W	11490.37	335.809	0.76	0.06	0.76	
18275.00	90.030	340.830	6338.23	11584.74	10570.98	-4739.94	1664172.18	14235428.98	39°12'06.530"N	80°54'58.121"W	11585.02	335.849	0.23	0.03	0.23	
18369.00	90.030	340.410	6338.18	11678.46	10659.66	-4771.13	1664141.00	14235517.61	39°12'07.407"N	80°54'58.516"W	11678.70	335.887	0.45	0.00	-0.45	
18463.00	90.120	339.030	6338.06	11772.29	10747.83	-4803.71	1664108.43	14235605.75	39°12'08.279"N	80°54'58.929"W	11772.49	335.918	1.47	0.10	-1.47	
18558.00	89.970	338.430	6337.98	11867.20	10836.36	-4838.17	1664073.98	14235694.24	39°12'09.154"N	80°54'59.366"W	11867.37	335.940	0.65	-0.16	-0.63	
18652.00	90.030	337.410	6337.98	11961.16	10923.46	-4873.51	1664038.66	14235781.31	39°12'10.015"N	80°54'59.813"W	11961.32	335.956	1.09	0.06	-1.09	
18747.00	90.030	332.810	6337.93	12056.11	11009.61	-4913.48	1663998.71	14235867.43	39°12'10.867"N	80°55'00.320"W	12056.28	335.949	4.84	0.00	-4.84	
18841.00	89.910	331.310	6337.98	12149.86	11092.66	-4957.52	1663954.68	14235950.44	39°12'11.688"N	80°55'00.879"W	12150.06	335.919	1.60	-0.13	-1.60	
18879.00	89.970	331.790	6338.02	12187.73	11126.07	-4975.62	1663936.59	14235983.84	39°12'12.019"N	80°55'01.108"W	12187.95	335.906	1.27	0.16	1.26	
18904.00	89.970	331.790	6338.03	12212.66	11148.10	-4987.44	1663924.77	14236005.86	39°12'12.236"N	80°55'01.258"W	12212.89	335.897	0.00	0.00	0.00	Projected MD at TD: 18904'

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'

Page 10 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWB
Facility	Ireland North Pad		

HOLE & CASING SECTIONS - Ref Wellbore: Pritchard Unit 2H AWB Ref Wellpath: Pritchard Unit 2H AWP Proj: 18904'									
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]
26in Open Hole	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.24	0.05
20in Conductor	30.00	110.00	80.00	30.00	110.00	0.00	0.00	0.24	0.05
17.5in Open Hole	110.00	482.00	372.00	110.00	482.00	0.24	0.05	0.93	-1.32
13.375in Casing Surface	30.00	482.00	452.00	30.00	482.00	0.00	0.00	0.93	-1.32
12.25in Open Hole	482.00	2585.00	2103.00	482.00	2584.49	0.93	-1.32	-20.42	-7.42
9.625in Casing Intermediate	30.00	2585.00	2555.00	30.00	2584.49	0.00	0.00	-20.42	-7.42
8.75in Open Hole	2585.00	5538.00	2953.00	2584.49	5488.87	-20.42	-7.42	-491.19	160.47
8.5in Open Hole	5538.00	18904.00	13366.00	5488.87	6338.03	-491.19	160.47	11148.10	-4987.44
5.5in Casing Production	30.00	18904.00	18874.00	30.00	6338.03	0.00	0.00	11148.10	-4987.44

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Pritchard Unit 2H - POE - Rev-2	6350.00	-24.44	-65.22	1668845.02	14224837.80	39°10'21.759"N	80°53'58.888"W	point
Pritchard Unit 2H - BHL - Rev-2	6375.00	11182.95	-4995.64	1663916.58	14236040.70	39°12'12.581"N	80°55'01.362"W	point
Pritchard Unit 2H - LP - Rev-2	6375.00	142.04	-138.46	1668771.81	14225004.22	39°10'23.405"N	80°53'59.816"W	point

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Actual Wellpath Report

Pritchard Unit 2H AWP Proj: 18904'
Page 11 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWB
Facility	Ireland North Pad		

WELLPATH COMPOSITION - Ref Wellbore: Pritchard Unit 2H AWB Ref Wellpath: Pritchard Unit 2H AWP Proj: 18904'				
Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore
30.00	467.00	Gyrodatab standard - Drop gyro or Multi-shot	01 Gyrodatab MS Gyro <17-1/2">(100'-452')	Pritchard Unit 2H AWB
467.00	2502.00	ISCWSA MWD, Rev. 4 (Standard)	02 WFT EM <12-1/4">(452')(526'-2487')	Pritchard Unit 2H AWB
2502.00	5465.00	ISCWSA MWD, Rev. 4 (Standard)	03 WFT EM <8-3/4">(2487')(2660'-5450')	Pritchard Unit 2H AWB
5465.00	18879.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8-1/2"> (5465')(5506'-18879')	Pritchard Unit 2H AWB
18879.00	18904.00	Blind Drilling (std)	Projection to bit	Pritchard Unit 2H AWB

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Pritchard Unit 2H AWP Proj: 18904'

Page 12 of 12



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Slot	Slot #02
Area	Ritchie County, WV	Well	Pritchard Unit 2H
Field	Ritchie	Wellbore	Pritchard Unit 2H AWB
Facility	Ireland North Pad		

COMMENTS

Wellpath general comments

API: 47-085-10323-0000

BHI Job #: 109581853

Rig: H&P 519

Duration: 01/03/2019-01/08/2019

Gyrodata MS Gyro <17-1/2">(100'-452')

WFT EM <12-1/4">(452')(526'-2487')

WFT EM <8-3/4">(2487')(2660'-5450')

BH AT Curve <8-1/2"> (5465')(5506'-18879')

Middlesex: 6318' MD

Burkett: 6522' MD

Tully: 6642' MD

Marcellus POE: 6762' MD

Projected MD at TD: 18904'

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