



ANTERO RESOURCES CORPORATION



Location: Ritchie County, WV
Field: Ritchie
Facility: Pinewood Pad

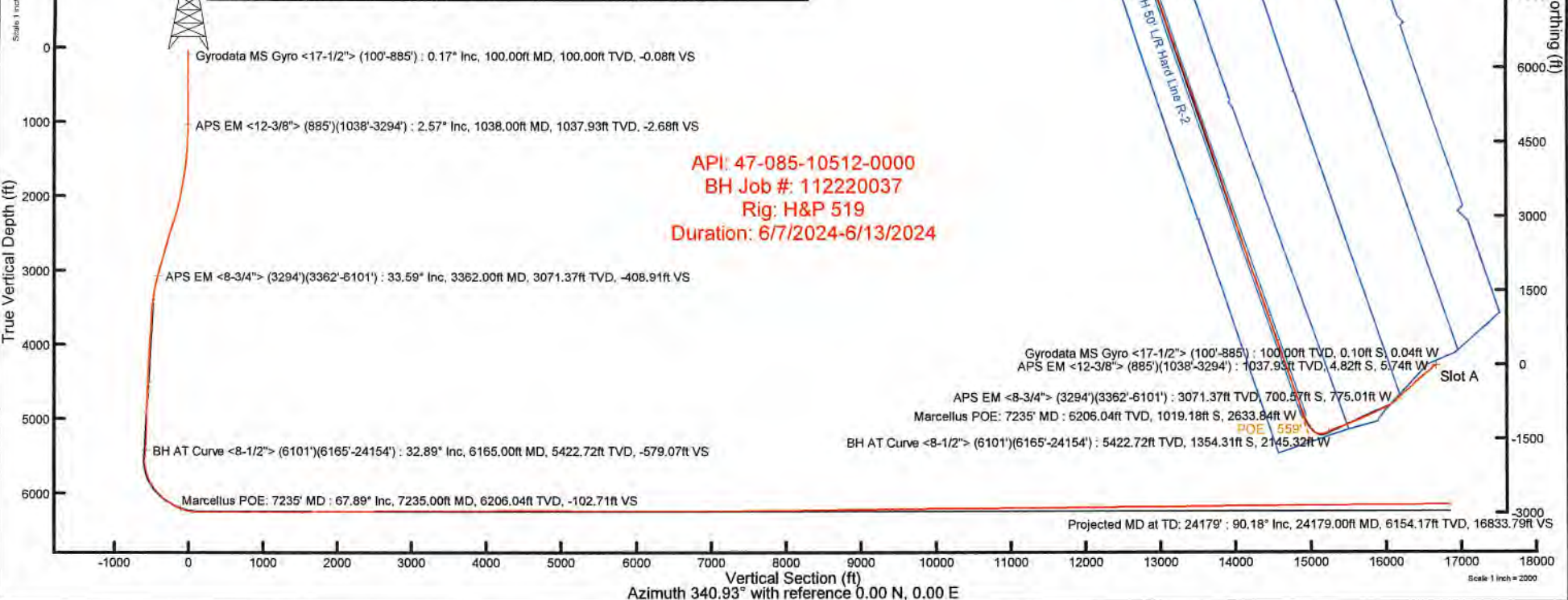
Slot: Slot A
Well: Hanely Unit 1H
Wellbore: Hanely Unit 1H PWB

Plot reference wellpath is Hanely Unit 1H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 519 (RKB)	North Reference: Grid north
Reference wellpath measured depths are referenced to H&P 519 (RKB)	Scale: True distance
H&P 519 (RKB) to Mean Sea Level: 1096 feet	Coordinates are in feet referenced to SNA
Mean Sea Level to Ground level (At Slot: Slot A): -1096 feet	Depths are in feet
Offset wellbore MDs are referenced to each path's default MD datum	Created by: edbanyan on 2024-05-21; Database: WA_MPL_EASTERNUS_Data

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
Pinewood Pad	1631724.300	14274277.960	39°18'30.7535"N	81°01'50.6280"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
Slot A	-0.47	-14.89	1631709.320	14274277.480	39°18'30.7488"N
Comment: Hanely Unit 1H					
H&P 519 (RKB) to Ground level (At Slot: Slot A)					30ft
Mean Sea Level to Ground level (At Slot: Slot A)					-1096ft
H&P 519 (RKB) to Mean Sea Level					1096ft

Well Profile Data								
Design Comment	MD (ft)	Inc. (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	3294.00	34.350	227.650	3014.97	-674.83	-747.06	0.54	-393.72
Proj. to Bottom	3368.00	34.350	227.650	3076.07	-702.96	-777.91	0.00	-410.22
Drill Out	3448.00	34.350	227.650	3142.12	-733.37	-811.27	0.00	-428.06
End of 3D Arc	3781.62	32.677	245.578	3420.95	-834.27	-963.22	3.00	-473.78
Curve KOP	6293.64	32.677	245.578	5535.38	-1395.02	-2198.13	0.00	-600.28
POE	7235.59	67.128	340.933	6166.00	-1030.04	-2638.85	8.00	-111.34
Landing Pl.	7496.49	90.000	340.933	6245.00	-788.87	-2722.22	8.00	143.84
BHL	24200.54	90.000	340.933	6245.00	14998.78	-8178.92	0.00	16847.89

Well Data			
Slot	Well	Wellbore	Wellpath
Slot A	Hanely Unit 1H	Hanely Unit 1H AWB	Hanely Unit 1H AWP Proj; 24179'
Slot A	Hanely Unit 1H	Hanely Unit 1H PWB	Hanely Unit 1H PWP Rev-B.0





Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999600	Report Generated	6/21/2024 at 7:04:06 PM
Convergence at slot	0.02° West	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-0.47	-14.99	1631709.32	14274277.49	39°18'30.7488"N	81°01'50.8187"W
Facility Reference Pt			1631724.30	14274277.96	39°18'30.7535"N	81°01'50.6280"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	1096.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	1096.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot A)	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	340.93°



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 2 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (265 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	201.110	0.00	0.00	0.00	0.00	1631709.32	14274277.49	39°18'30.7488"N	81°01'50.8187"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	201.110	30.00	0.00	0.00	0.00	1631709.32	14274277.49	39°18'30.7488"N	81°01'50.8187"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.170	201.110	100.00	-0.08	-0.10	-0.04	1631709.28	14274277.39	39°18'30.7478"N	81°01'50.8192"W	0.10	201.110	0.24	0.24	0.00	Gyrodatta MS Gyro <17-1/2"> (100'-885')
200.00	0.230	202.960	200.00	-0.34	-0.42	-0.17	1631709.15	14274277.07	39°18'30.7446"N	81°01'50.8208"W	0.45	201.930	0.06	0.06	1.85	
300.00	0.180	224.140	300.00	-0.56	-0.72	-0.36	1631708.96	14274276.77	39°18'30.7417"N	81°01'50.8232"W	0.80	206.437	0.09	-0.05	21.18	
400.00	0.170	226.420	400.00	-0.69	-0.93	-0.57	1631708.75	14274276.56	39°18'30.7396"N	81°01'50.8260"W	1.09	211.597	0.01	-0.01	2.28	
500.00	0.210	220.030	500.00	-0.85	-1.18	-0.80	1631708.52	14274276.32	39°18'30.7372"N	81°01'50.8289"W	1.42	214.211	0.05	0.04	-6.39	
600.00	0.330	261.890	600.00	-0.89	-1.36	-1.20	1631708.12	14274276.13	39°18'30.7354"N	81°01'50.8340"W	1.81	221.551	0.22	0.12	41.86	
700.00	0.370	261.860	699.99	-0.77	-1.44	-1.81	1631707.51	14274276.05	39°18'30.7345"N	81°01'50.8417"W	2.31	231.396	0.04	0.04	-0.03	
800.00	0.320	227.820	799.99	-0.82	-1.68	-2.33	1631706.99	14274275.81	39°18'30.7322"N	81°01'50.8484"W	2.87	234.315	0.21	-0.05	-34.04	
885.00	0.540	201.140	884.99	-1.22	-2.21	-2.65	1631706.67	14274275.28	39°18'30.7270"N	81°01'50.8524"W	3.45	230.228	0.34	0.26	-31.39	
1038.00	2.570	235.490	1037.93	-2.68	-4.82	-5.74	1631703.58	14274272.67	39°18'30.7011"N	81°01'50.8917"W	7.50	229.954	1.40	1.33	22.45	APS EM <12-3/8"> (885')(1038'-3294')
1132.00	5.330	237.180	1131.70	-4.28	-8.39	-11.15	1631698.18	14274269.11	39°18'30.6659"N	81°01'50.9605"W	13.95	233.047	2.94	2.94	1.80	
1227.00	7.850	234.540	1226.06	-7.16	-14.54	-20.14	1631689.19	14274262.95	39°18'30.6050"N	81°01'51.0749"W	24.84	234.170	2.67	2.65	-2.78	
1321.00	10.890	231.740	1318.80	-11.89	-23.77	-32.34	1631676.99	14274253.73	39°18'30.5138"N	81°01'51.2301"W	40.14	233.692	3.27	3.23	-2.98	
1416.00	13.220	230.090	1411.70	-18.71	-36.29	-47.73	1631661.61	14274241.21	39°18'30.3899"N	81°01'51.4257"W	59.96	232.747	2.48	2.45	-1.74	
1510.00	15.170	230.600	1502.82	-26.81	-51.00	-65.48	1631643.87	14274226.51	39°18'30.2445"N	81°01'51.6515"W	82.99	232.085	2.08	2.07	0.54	
1604.00	17.330	228.450	1593.06	-36.43	-68.09	-85.46	1631623.89	14274209.42	39°18'30.0755"N	81°01'51.9056"W	109.27	231.453	2.38	2.30	-2.29	
1698.00	19.700	225.770	1682.19	-48.53	-88.43	-107.29	1631602.07	14274189.09	39°18'29.8744"N	81°01'52.1833"W	139.04	230.504	2.68	2.52	-2.85	
1793.00	22.340	225.690	1770.86	-63.03	-112.22	-131.69	1631577.68	14274165.32	39°18'29.6392"N	81°01'52.4936"W	173.02	229.564	2.78	2.78	-0.08	
1887.00	25.440	228.680	1856.80	-78.30	-138.04	-159.65	1631549.74	14274139.51	39°18'29.3839"N	81°01'52.8491"W	211.05	229.152	3.54	3.30	3.18	
1981.00	28.790	231.610	1940.46	-93.44	-165.43	-192.56	1631516.84	14274112.12	39°18'29.1131"N	81°01'53.2677"W	253.87	229.333	3.84	3.56	3.12	
2076.00	31.840	232.580	2022.46	-108.90	-194.87	-230.40	1631479.01	14274082.70	39°18'28.8219"N	81°01'53.7490"W	301.76	229.776	3.25	3.21	1.02	
2170.00	35.180	230.470	2100.83	-126.18	-227.19	-270.99	1631438.44	14274050.40	39°18'28.5024"N	81°01'54.2652"W	353.62	230.025	3.76	3.55	-2.24	
2264.00	37.090	228.740	2176.75	-146.35	-263.12	-313.19	1631396.26	14274014.48	39°18'28.1472"N	81°01'54.8019"W	409.05	229.966	2.30	2.03	-1.84	
2359.00	36.660	227.440	2252.74	-168.47	-301.19	-355.61	1631353.85	14273976.42	39°18'27.7707"N	81°01'55.3414"W	466.02	229.737	0.94	-0.45	-1.37	
2453.00	36.550	225.830	2328.20	-191.53	-339.68	-396.36	1631313.12	14273937.95	39°18'27.3902"N	81°01'55.8596"W	522.00	229.404	1.03	-0.12	-1.71	
2548.00	36.390	224.750	2404.60	-215.97	-379.40	-436.49	1631273.00	14273898.24	39°18'26.9974"N	81°01'56.3700"W	578.33	229.003	0.70	-0.17	-1.14	
2642.00	36.320	223.820	2480.30	-240.95	-419.29	-475.40	1631234.11	14273858.37	39°18'26.6030"N	81°01'56.8647"W	633.88	228.589	0.59	-0.07	-0.99	
2736.00	35.840	226.210	2556.28	-265.15	-458.42	-514.54	1631194.99	14273819.25	39°18'26.2161"N	81°01'57.3625"W	689.13	228.301	1.58	-0.51	2.54	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 3 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (265 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
2830.00	35.150	229.610	2632.82	-286.50	-495.00	-555.02	1631154.52	14273782.69	39°18'25.8544"N	81°01'57.8773"W	743.69	228.271	2.22	-0.73	3.62	
2924.00	34.950	227.650	2709.77	-306.98	-530.67	-595.53	1631114.03	14273747.03	39°18'25.5017"N	81°01'58.3925"W	797.67	228.296	1.22	-0.21	-2.09	
3019.00	34.520	226.250	2787.84	-328.97	-567.62	-635.08	1631074.49	14273710.10	39°18'25.1364"N	81°01'58.8955"W	851.78	228.211	0.95	-0.45	-1.47	
3113.00	34.060	225.000	2865.51	-351.60	-604.65	-672.94	1631036.65	14273673.08	39°18'24.7702"N	81°01'59.3769"W	904.68	228.059	0.89	-0.49	-1.33	
3208.00	34.470	226.860	2944.02	-374.20	-641.85	-711.37	1630998.24	14273635.90	39°18'24.4025"N	81°01'59.8656"W	958.13	227.941	1.18	0.43	1.96	
3294.00	34.350	227.650	3014.97	-393.72	-674.83	-747.06	1630962.56	14273602.93	39°18'24.0763"N	81°02'0.3195"W	1006.72	227.908	0.54	-0.14	0.92	
3362.00	33.590	227.070	3071.37	-408.91	-700.57	-775.01	1630934.62	14273577.20	39°18'23.8219"N	81°02'0.6750"W	1044.72	227.888	1.22	-1.12	-0.85	APS EM <8-3/4"> (3294')(3362'-6101')
3457.00	33.670	227.660	3150.47	-429.94	-736.21	-813.71	1630895.93	14273541.58	39°18'23.4695"N	81°02'1.1672"W	1097.33	227.863	0.35	0.08	0.62	
3551.00	33.180	232.620	3228.94	-448.32	-769.38	-853.42	1630856.24	14273508.42	39°18'23.1415"N	81°02'1.6722"W	1149.03	227.965	2.95	-0.52	5.28	
3645.00	32.760	237.170	3307.81	-462.45	-798.79	-895.24	1630814.44	14273479.02	39°18'22.8507"N	81°02'2.2040"W	1199.80	228.259	2.67	-0.45	4.84	
3739.00	33.380	240.950	3386.59	-472.99	-825.13	-939.22	1630770.48	14273452.69	39°18'22.5901"N	81°02'2.7634"W	1250.19	228.700	2.29	0.66	4.02	
3834.00	33.800	240.420	3465.73	-482.33	-850.87	-985.05	1630724.67	14273426.96	39°18'22.3356"N	81°02'3.3463"W	1301.65	229.180	0.54	0.44	-0.56	
3928.00	33.100	242.390	3544.16	-490.92	-875.67	-1030.53	1630679.20	14273402.17	39°18'22.0903"N	81°02'3.9248"W	1352.33	229.645	1.37	-0.74	2.10	
4025.00	33.610	248.490	3625.20	-495.99	-897.80	-1078.99	1630630.76	14273380.05	39°18'21.8714"N	81°02'4.5412"W	1403.66	230.237	3.50	0.53	6.29	
4120.00	32.550	247.000	3704.81	-498.86	-917.42	-1126.98	1630582.79	14273360.44	39°18'21.6772"N	81°02'5.1516"W	1453.19	230.853	1.41	-1.12	-1.57	
4214.00	30.770	243.050	3784.82	-503.90	-938.21	-1171.70	1630538.09	14273339.66	39°18'21.4717"N	81°02'5.7204"W	1501.04	231.315	2.91	-1.89	-4.20	
4308.00	31.690	242.180	3865.20	-510.95	-960.63	-1214.97	1630494.84	14273317.25	39°18'21.2499"N	81°02'6.2707"W	1548.86	231.668	1.09	0.98	-0.93	
4402.00	34.200	245.700	3944.08	-517.11	-983.03	-1260.90	1630448.93	14273294.86	39°18'21.0283"N	81°02'6.8548"W	1598.81	232.059	3.36	2.67	3.74	
4497.00	34.100	245.180	4022.70	-522.22	-1005.19	-1309.40	1630400.45	14273272.70	39°18'20.8091"N	81°02'7.4718"W	1650.74	232.488	0.32	-0.11	-0.55	
4591.00	33.380	245.620	4100.87	-527.25	-1026.93	-1356.87	1630352.99	14273250.98	39°18'20.5940"N	81°02'8.0755"W	1701.67	232.880	0.81	-0.77	0.47	
4685.00	33.470	247.270	4179.33	-531.30	-1047.62	-1404.33	1630305.55	14273230.29	39°18'20.3894"N	81°02'8.6792"W	1752.04	233.277	0.97	0.10	1.76	
4780.00	32.010	245.430	4259.23	-535.38	-1068.21	-1451.40	1630258.51	14273209.71	39°18'20.1856"N	81°02'9.2778"W	1802.12	233.647	1.86	-1.54	-1.94	
4874.00	32.650	248.270	4338.67	-538.95	-1087.96	-1497.61	1630212.31	14273189.97	39°18'19.9903"N	81°02'9.8657"W	1851.08	234.003	1.75	0.68	3.02	
4968.00	32.880	247.760	4417.71	-541.53	-1107.00	-1544.78	1630165.16	14273170.93	39°18'19.8019"N	81°02'10.4657"W	1900.48	234.374	0.38	0.24	-0.54	
5062.00	33.440	249.160	4496.40	-543.75	-1125.88	-1592.61	1630117.35	14273152.07	39°18'19.6151"N	81°02'11.0739"W	1950.38	234.742	1.01	0.60	1.49	
5157.00	31.510	244.510	4576.56	-547.33	-1145.88	-1639.49	1630070.49	14273132.07	39°18'19.4173"N	81°02'11.6703"W	2000.24	235.049	3.32	-2.03	-4.89	
5251.00	32.210	246.080	4656.40	-552.20	-1166.61	-1684.57	1630025.43	14273111.35	39°18'19.2122"N	81°02'12.2436"W	2049.08	235.296	1.15	0.74	1.67	
5346.00	33.650	246.640	4736.13	-556.31	-1187.31	-1731.88	1629978.14	14273090.66	39°18'19.0074"N	81°02'12.8453"W	2099.79	235.567	1.55	1.52	0.59	
5440.00	33.330	244.540	4814.53	-561.13	-1208.74	-1779.10	1629930.93	14273069.24	39°18'18.7954"N	81°02'13.4460"W	2150.87	235.807	1.28	-0.34	-2.23	
5534.00	34.110	252.170	4892.75	-563.43	-1227.92	-1827.53	1629882.52	14273050.06	39°18'18.6056"N	81°02'14.0620"W	2201.74	236.103	4.58	0.83	8.12	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 4 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (265 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
5629.00	33.730	251.930	4971.58	-562.40	-1244.26	-1877.97	1629832.11	14273033.73	39°18'18.4440"N	81°02'14.7035"W	2252.76	236.473	0.42	-0.40	-0.25	
5723.00	32.300	249.700	5050.40	-562.48	-1261.07	-1926.34	1629783.76	14273016.93	39°18'18.2776"N	81°02'15.3187"W	2302.40	236.789	2.00	-1.52	-2.37	
5818.00	32.860	249.450	5130.45	-563.69	-1278.92	-1974.28	1629735.84	14272999.09	39°18'18.1010"N	81°02'15.9285"W	2352.32	237.065	0.61	0.59	-0.26	
5912.00	33.050	247.960	5209.33	-565.68	-1297.49	-2021.91	1629688.22	14272980.52	39°18'17.9172"N	81°02'16.5344"W	2402.42	237.311	0.89	0.20	-1.59	
6006.00	32.050	246.440	5288.56	-568.96	-1317.08	-2068.54	1629641.61	14272960.94	39°18'17.7234"N	81°02'17.1274"W	2452.25	237.514	1.37	-1.06	-1.62	
6101.00	32.550	242.760	5368.87	-574.56	-1338.85	-2114.37	1629595.80	14272939.17	39°18'17.5080"N	81°02'17.7103"W	2502.62	237.657	2.14	0.53	-3.87	
6165.00	32.890	244.140	5422.72	-579.07	-1354.31	-2145.32	1629564.87	14272923.72	39°18'17.3551"N	81°02'18.1039"W	2537.03	237.736	1.28	0.53	2.16	BH AT Curve <8-1/2"> (6101')(6165'-24154')
6259.00	31.830	244.110	5502.12	-585.03	-1376.27	-2190.58	1629519.62	14272901.77	39°18'17.1379"N	81°02'18.6797"W	2587.04	237.860	1.13	-1.13	-0.03	
6353.00	31.630	254.660	5582.13	-586.37	-1393.63	-2236.69	1629473.53	14272884.42	39°18'16.9661"N	81°02'19.2661"W	2635.33	238.074	5.90	-0.21	11.22	
6447.00	30.930	269.530	5662.59	-577.04	-1400.36	-2284.69	1629425.55	14272877.70	39°18'16.8994"N	81°02'19.8767"W	2679.70	238.495	8.23	-0.74	15.82	
6541.00	32.100	279.590	5742.78	-557.35	-1396.39	-2333.51	1629376.75	14272881.66	39°18'16.9384"N	81°02'20.4977"W	2719.41	239.103	5.73	1.24	10.70	
6635.00	34.190	294.770	5821.62	-527.02	-1381.14	-2382.21	1629328.07	14272896.91	39°18'17.0890"N	81°02'21.1173"W	2753.62	239.896	9.08	2.22	16.15	
6730.00	38.610	310.680	5898.23	-482.80	-1350.55	-2429.05	1629281.25	14272927.48	39°18'17.3911"N	81°02'21.7134"W	2779.26	240.926	10.94	4.65	16.75	
6771.00	40.220	313.690	5929.91	-459.98	-1333.06	-2448.33	1629261.98	14272944.96	39°18'17.5638"N	81°02'21.9587"W	2787.72	241.433	6.09	3.93	7.34	
6824.00	42.670	317.820	5969.64	-428.24	-1307.92	-2472.77	1629237.55	14272970.09	39°18'17.8122"N	81°02'22.2698"W	2797.36	242.124	6.92	4.62	7.79	
6882.00†	45.724	322.787	6011.24	-390.41	-1276.81	-2498.54	1629211.79	14273001.20	39°18'18.1196"N	81°02'22.5978"W	2805.87	242.932	7.96	5.27	8.56	Sycamore: 6882' MD
6918.00	47.720	325.610	6035.92	-365.31	-1255.55	-2513.86	1629196.47	14273022.45	39°18'18.3297"N	81°02'22.7928"W	2809.96	243.460	7.96	5.54	7.84	
7008.00†	52.677	331.230	6093.54	-297.85	-1196.64	-2549.92	1629160.42	14273081.33	39°18'18.9117"N	81°02'23.2519"W	2816.75	244.860	7.30	5.51	6.24	Middlesex: 7008' MD
7013.00	52.960	331.520	6096.56	-293.92	-1193.14	-2551.83	1629158.51	14273084.83	39°18'18.9463"N	81°02'23.2762"W	2816.99	244.941	7.30	5.66	5.79	
7107.00	59.140	334.360	6149.04	-216.74	-1123.72	-2587.22	1629123.14	14273154.22	39°18'19.6323"N	81°02'23.7268"W	2820.72	246.523	7.03	6.57	3.02	
7194.00†	65.210	336.568	6189.63	-140.19	-1053.75	-2619.12	1629091.26	14273224.17	39°18'20.3238"N	81°02'24.1329"W	2823.14	248.084	7.33	6.98	2.54	Burkett: 7194' MD
7202.00	65.770	336.760	6192.95	-132.93	-1047.06	-2622.00	1629088.38	14273230.85	39°18'20.3898"N	81°02'24.1696"W	2823.33	248.231	7.33	7.00	2.39	
7221.00	66.580	336.950	6200.62	-115.60	-1031.08	-2628.83	1629081.55	14273246.82	39°18'20.5477"N	81°02'24.2566"W	2823.81	248.584	4.36	4.26	1.00	
7235.00†	67.894	337.359	6206.04	-102.71	-1019.18	-2633.84	1629076.54	14273258.72	39°18'20.6653"N	81°02'24.3205"W	2824.16	248.846	9.76	9.39	2.92	Marcellus POE: 7235' MD
7296.00	73.630	339.060	6226.13	-45.21	-965.73	-2655.20	1629055.19	14273312.15	39°18'21.1936"N	81°02'24.5924"W	2825.37	250.013	9.76	9.40	2.79	
7391.00	81.730	340.710	6246.39	47.50	-878.64	-2687.07	1629023.33	14273399.20	39°18'22.0541"N	81°02'24.9984"W	2827.08	251.893	8.69	8.53	1.74	
7486.00	90.030	340.810	6253.21	142.18	-789.26	-2718.27	1628992.15	14273488.55	39°18'22.9374"N	81°02'25.3958"W	2830.53	253.809	8.74	8.74	0.11	
7580.00	89.660	340.570	6253.46	236.17	-700.55	-2749.35	1628961.08	14273577.22	39°18'23.8141"N	81°02'25.7917"W	2837.20	255.705	0.47	-0.39	-0.26	
7674.00	89.420	340.040	6254.22	330.17	-612.05	-2781.03	1628929.41	14273665.69	39°18'24.6886"N	81°02'26.1952"W	2847.58	257.588	0.62	-0.26	-0.56	
7768.00	89.630	340.230	6255.00	424.15	-523.65	-2812.97	1628897.48	14273754.05	39°18'25.5622"N	81°02'26.6020"W	2861.29	259.455	0.30	0.22	0.20	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (265 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
7863.00	89.630	340.210	6255.61	519.14	-434.25	-2845.12	1628865.35	14273843.41	39°18'26.4456"N	81°02'27.0115"W	2878.07	261.322	0.02	0.00	-0.02	
7955.00	90.490	341.470	6255.51	611.14	-347.35	-2875.31	1628835.17	14273930.28	39°18'27.3044"N	81°02'27.3961"W	2896.22	263.112	1.66	0.93	1.37	
8049.00	90.090	341.370	6255.04	705.14	-258.25	-2905.26	1628805.23	14274019.34	39°18'28.1849"N	81°02'27.7777"W	2916.72	264.920	0.44	-0.43	-0.11	
8143.00	90.180	341.470	6254.82	799.13	-169.15	-2935.21	1628775.29	14274108.41	39°18'29.0654"N	81°02'28.1592"W	2940.08	266.702	0.14	0.10	0.11	
8237.00	90.340	341.620	6254.39	893.13	-79.99	-2964.97	1628745.54	14274197.53	39°18'29.9466"N	81°02'28.5383"W	2966.05	268.455	0.23	0.17	0.16	
8332.00	90.710	340.530	6253.52	988.12	9.87	-2995.78	1628714.75	14274287.36	39°18'30.8346"N	81°02'28.9308"W	2995.79	270.189	1.21	0.39	-1.15	
8426.00	89.940	340.110	6252.98	1082.11	98.38	-3027.43	1628683.10	14274375.83	39°18'31.7092"N	81°02'29.3340"W	3029.03	271.861	0.93	-0.82	-0.45	
8520.00	90.430	341.030	6252.68	1176.11	187.02	-3058.70	1628651.85	14274464.44	39°18'32.5852"N	81°02'29.7323"W	3064.41	273.499	1.11	0.52	0.98	
8615.00	90.120	340.900	6252.23	1271.11	276.83	-3089.69	1628620.88	14274554.21	39°18'33.4726"N	81°02'30.1270"W	3102.06	275.120	0.35	-0.33	-0.14	
8709.00	90.460	340.590	6251.75	1365.11	365.57	-3120.68	1628589.89	14274642.91	39°18'34.3496"N	81°02'30.5219"W	3142.02	276.681	0.49	0.36	-0.33	
8804.00	90.460	340.970	6250.99	1460.10	455.27	-3151.96	1628558.63	14274732.58	39°18'35.2360"N	81°02'30.9203"W	3184.67	278.219	0.40	0.00	0.40	
8898.00	89.850	341.420	6250.73	1554.10	544.25	-3182.26	1628528.34	14274821.52	39°18'36.1153"N	81°02'31.3063"W	3228.46	279.705	0.81	-0.65	0.48	
8993.00	91.260	340.800	6249.81	1649.09	634.13	-3213.01	1628497.60	14274911.36	39°18'37.0035"N	81°02'31.6981"W	3274.99	281.165	1.62	1.48	-0.65	
9087.00	89.690	340.460	6249.03	1743.08	722.80	-3244.19	1628466.44	14275000.00	39°18'37.8798"N	81°02'32.0952"W	3323.73	282.560	1.71	-1.67	-0.36	
9182.00	91.140	340.980	6248.35	1838.08	812.47	-3275.55	1628435.09	14275089.63	39°18'38.7659"N	81°02'32.4948"W	3374.81	283.931	1.62	1.53	0.55	
9276.00	90.250	340.820	6247.20	1932.07	901.29	-3306.31	1628404.34	14275178.41	39°18'39.6436"N	81°02'32.8866"W	3426.95	285.248	0.96	-0.95	-0.17	
9370.00	90.340	340.940	6246.72	2026.07	990.10	-3337.10	1628373.57	14275267.19	39°18'40.5213"N	81°02'33.2789"W	3480.88	286.525	0.16	0.10	0.13	
9465.00	90.650	340.750	6245.90	2121.07	1079.84	-3368.27	1628342.41	14275356.89	39°18'41.4080"N	81°02'33.6760"W	3537.13	287.775	0.38	0.33	-0.20	
9559.00	90.220	341.880	6245.19	2215.06	1168.88	-3398.38	1628312.31	14275445.90	39°18'42.2880"N	81°02'34.0596"W	3593.78	288.981	1.29	-0.46	1.20	
9653.00	90.680	340.340	6244.45	2309.05	1257.81	-3428.81	1628281.89	14275534.79	39°18'43.1668"N	81°02'34.4473"W	3652.24	290.145	1.71	0.49	-1.64	
9748.00	89.450	341.510	6244.34	2404.05	1347.59	-3459.86	1628250.86	14275624.54	39°18'44.0540"N	81°02'34.8428"W	3713.03	291.281	1.79	-1.29	1.23	
9842.00	91.570	341.180	6243.50	2498.04	1436.64	-3489.92	1628220.80	14275713.55	39°18'44.9340"N	81°02'35.2259"W	3774.05	292.375	2.28	2.26	-0.35	
9936.00	89.880	341.210	6242.31	2592.03	1525.61	-3520.22	1628190.52	14275802.49	39°18'45.8133"N	81°02'35.6119"W	3836.59	293.431	1.80	-1.80	0.03	
10031.00	90.060	341.080	6242.36	2687.02	1615.52	-3550.92	1628159.83	14275892.36	39°18'46.7017"N	81°02'36.0030"W	3901.14	294.464	0.23	0.19	-0.14	
10125.00	90.000	340.830	6242.31	2781.02	1704.37	-3581.59	1628129.17	14275981.18	39°18'47.5797"N	81°02'36.3938"W	3966.44	295.448	0.27	-0.06	-0.27	
10219.00	89.940	341.500	6242.36	2875.02	1793.34	-3611.94	1628098.83	14276070.11	39°18'48.4589"N	81°02'36.7805"W	4032.64	296.405	0.72	-0.06	0.71	
10313.00	90.220	340.960	6242.23	2969.02	1882.34	-3642.19	1628068.60	14276159.07	39°18'49.3384"N	81°02'37.1658"W	4099.84	297.331	0.65	0.30	-0.57	
10408.00	91.540	340.620	6240.77	3064.01	1972.04	-3673.44	1628037.36	14276248.73	39°18'50.2248"N	81°02'37.5640"W	4169.30	298.229	1.43	1.39	-0.36	
10502.00	89.600	341.450	6239.84	3158.00	2060.92	-3703.98	1628006.82	14276337.58	39°18'51.1032"N	81°02'37.9532"W	4238.74	299.092	2.24	-2.06	0.88	
10596.00	89.750	340.300	6240.37	3251.99	2149.73	-3734.78	1627976.04	14276426.36	39°18'51.9808"N	81°02'38.3456"W	4309.28	299.925	1.23	0.16	-1.22	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'

Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (265 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
10691.00	90.150	340.470	6240.45	3346.99	2239.22	-3766.67	1627944.16	14276515.81	39°18'52.8651"N	81°02'38.7519"W	4382.00	300.731	0.46	0.42	0.18	
10785.00	89.450	340.890	6240.78	3440.99	2327.92	-3797.77	1627913.08	14276604.48	39°18'53.7417"N	81°02'39.1481"W	4454.47	301.507	0.87	-0.74	0.45	
10879.00	90.710	341.620	6240.65	3534.98	2416.94	-3827.98	1627882.88	14276693.45	39°18'54.6213"N	81°02'39.5330"W	4527.14	302.268	1.55	1.34	0.78	
10974.00	89.780	341.540	6240.25	3629.98	2507.07	-3858.00	1627852.88	14276783.55	39°18'55.5120"N	81°02'39.9155"W	4601.03	303.017	0.98	-0.98	-0.08	
11068.00	90.680	340.810	6239.87	3723.97	2596.04	-3888.33	1627822.56	14276872.48	39°18'56.3912"N	81°02'40.3019"W	4675.31	303.729	1.23	0.96	-0.78	
11163.00	90.150	341.770	6239.18	3818.97	2686.01	-3918.80	1627792.10	14276962.42	39°18'57.2803"N	81°02'40.6902"W	4750.96	304.427	1.15	-0.56	1.01	
11257.00	90.340	341.030	6238.78	3912.96	2775.10	-3948.78	1627762.13	14277051.48	39°18'58.1607"N	81°02'41.0722"W	4826.39	305.099	0.81	0.20	-0.79	
11351.00	91.050	341.620	6237.64	4006.95	2864.14	-3978.88	1627732.04	14277140.48	39°18'59.0406"N	81°02'41.4557"W	4902.53	305.748	0.98	0.76	0.63	
11445.00	90.710	341.490	6236.19	4100.93	2953.30	-4008.61	1627702.32	14277229.61	39°18'59.9217"N	81°02'41.8346"W	4979.06	306.381	0.39	-0.36	-0.14	
11539.00	90.250	341.480	6235.41	4194.93	3042.44	-4038.46	1627672.48	14277318.70	39°19'0.8025"N	81°02'42.2150"W	5056.24	306.993	0.49	-0.49	-0.01	
11633.00	90.370	341.360	6234.90	4288.92	3131.54	-4068.41	1627642.54	14277407.77	39°19'1.6830"N	81°02'42.5966"W	5134.05	307.586	0.18	0.13	-0.13	
11727.00	90.120	341.540	6234.50	4382.92	3220.65	-4098.32	1627612.65	14277496.85	39°19'2.5636"N	81°02'42.9777"W	5212.37	308.162	0.33	-0.27	0.19	
11822.00	89.940	341.280	6234.45	4477.91	3310.69	-4128.60	1627582.38	14277586.85	39°19'3.4535"N	81°02'43.3636"W	5292.08	308.726	0.33	-0.19	-0.27	
11916.00	89.940	341.150	6234.54	4571.91	3399.69	-4158.87	1627552.12	14277675.81	39°19'4.3329"N	81°02'43.7493"W	5371.60	309.264	0.14	0.00	-0.14	
12011.00	90.000	341.270	6234.59	4666.91	3489.62	-4189.47	1627521.53	14277765.71	39°19'5.2216"N	81°02'44.1392"W	5452.44	309.793	0.14	0.06	0.13	
12105.00	89.850	341.480	6234.72	4760.91	3578.70	-4219.49	1627491.52	14277854.75	39°19'6.1019"N	81°02'44.5217"W	5532.74	310.302	0.27	-0.16	0.22	
12199.00	89.690	341.480	6235.10	4854.90	3667.83	-4249.35	1627461.68	14277943.85	39°19'6.9827"N	81°02'44.9022"W	5613.37	310.799	0.17	-0.17	0.00	
12294.00	89.850	341.630	6235.48	4949.90	3757.95	-4279.41	1627431.63	14278033.93	39°19'7.8732"N	81°02'45.2852"W	5695.22	311.288	0.23	0.17	0.16	
12388.00	89.720	341.190	6235.83	5043.89	3847.05	-4309.37	1627401.68	14278122.99	39°19'8.7537"N	81°02'45.6671"W	5776.72	311.756	0.49	-0.14	-0.47	
12482.00	89.420	341.280	6236.53	5137.89	3936.05	-4339.61	1627371.45	14278211.95	39°19'9.6332"N	81°02'46.0524"W	5858.73	312.208	0.33	-0.32	0.10	
12577.00	89.570	341.470	6237.37	5232.88	4026.07	-4369.95	1627341.12	14278301.94	39°19'10.5228"N	81°02'46.4390"W	5941.86	312.655	0.25	0.16	0.20	
12671.00	89.780	341.610	6237.91	5326.87	4115.23	-4399.72	1627311.37	14278391.07	39°19'11.4039"N	81°02'46.8183"W	6024.33	313.086	0.27	0.22	0.15	
12766.00	89.720	341.590	6238.32	5421.87	4205.37	-4429.70	1627281.40	14278481.17	39°19'12.2946"N	81°02'47.2005"W	6107.98	313.512	0.07	-0.06	-0.02	
12860.00	89.350	341.580	6239.08	5515.86	4294.55	-4459.40	1627251.72	14278570.32	39°19'13.1760"N	81°02'47.5789"W	6191.07	313.921	0.39	-0.39	-0.01	
12954.00	89.350	341.480	6240.15	5609.85	4383.71	-4489.17	1627221.95	14278659.44	39°19'14.0570"N	81°02'47.9583"W	6274.52	314.319	0.11	0.00	-0.11	
13048.00	89.420	341.450	6241.16	5703.84	4472.83	-4519.05	1627192.08	14278748.52	39°19'14.9376"N	81°02'48.3391"W	6358.30	314.705	0.08	0.07	-0.03	
13143.00	89.230	341.720	6242.28	5798.82	4562.96	-4549.06	1627162.09	14278838.61	39°19'15.8283"N	81°02'48.7215"W	6443.18	315.087	0.35	-0.20	0.28	
13237.00	91.630	343.170	6241.57	5892.78	4652.57	-4577.41	1627133.75	14278928.19	39°19'16.7138"N	81°02'49.0829"W	6526.79	315.467	2.98	2.55	1.54	
13331.00	89.690	341.150	6240.49	5986.74	4742.03	-4606.20	1627104.97	14279017.62	39°19'17.5979"N	81°02'49.4498"W	6610.90	315.832	2.98	-2.06	-2.15	
13425.00	90.090	341.450	6240.67	6080.74	4831.07	-4636.34	1627074.84	14279106.62	39°19'18.4778"N	81°02'49.8339"W	6695.88	316.178	0.53	0.43	0.32	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (265 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
13519.00	90.090	341.590	6240.52	6174.73	4920.22	-4666.14	1627045.06	14279195.73	39°19'19.3588"N	81°02'50.2136"W	6780.96	316.518	0.15	0.00	0.15	
13614.00	90.250	342.040	6240.24	6269.72	5010.48	-4695.78	1627015.42	14279285.95	39°19'20.2507"N	81°02'50.5915"W	6866.97	316.857	0.50	0.17	0.47	
13708.00	90.220	340.810	6239.85	6363.72	5099.58	-4725.73	1626985.49	14279375.02	39°19'21.1311"N	81°02'50.9731"W	6952.57	317.179	1.31	-0.03	-1.31	
13802.00	89.720	340.030	6239.90	6457.71	5188.14	-4757.23	1626954.00	14279463.54	39°19'22.0063"N	81°02'51.3745"W	7039.03	317.481	0.99	-0.53	-0.83	
13896.00	89.720	340.290	6240.36	6551.70	5276.58	-4789.13	1626922.11	14279551.93	39°19'22.8801"N	81°02'51.7810"W	7125.86	317.772	0.28	0.00	0.28	
13990.00	90.030	340.490	6240.57	6645.70	5365.11	-4820.68	1626890.58	14279640.44	39°19'23.7551"N	81°02'52.1831"W	7212.72	318.060	0.39	0.33	0.21	
14085.00	90.180	340.280	6240.39	6740.69	5454.59	-4852.57	1626858.70	14279729.89	39°19'24.6394"N	81°02'52.5895"W	7300.69	318.343	0.27	0.16	-0.22	
14179.00	90.340	340.450	6239.97	6834.69	5543.13	-4884.16	1626827.13	14279818.39	39°19'25.5142"N	81°02'52.9920"W	7387.91	318.616	0.25	0.17	0.18	
14274.00	90.180	340.400	6239.54	6929.68	5632.64	-4915.98	1626795.31	14279907.86	39°19'26.3987"N	81°02'53.3976"W	7476.19	318.887	0.18	-0.17	-0.05	
14368.00	90.550	340.940	6238.94	7023.68	5721.33	-4947.10	1626764.21	14279996.52	39°19'27.2752"N	81°02'53.7941"W	7563.56	319.151	0.70	0.39	0.57	
14463.00	90.740	340.610	6237.87	7118.67	5811.03	-4978.38	1626732.94	14280086.18	39°19'28.1616"N	81°02'54.1927"W	7651.95	319.413	0.40	0.20	-0.35	
14557.00	89.720	339.900	6237.49	7212.66	5899.50	-5010.13	1626701.20	14280174.62	39°19'29.0358"N	81°02'54.5974"W	7739.87	319.661	1.32	-1.09	-0.76	
14652.00	90.550	340.650	6237.27	7307.66	5988.93	-5042.20	1626669.15	14280264.01	39°19'29.9195"N	81°02'55.0060"W	7828.85	319.905	1.18	0.87	0.79	
14746.00	90.220	340.410	6236.64	7401.65	6077.55	-5073.53	1626637.83	14280352.59	39°19'30.7953"N	81°02'55.4053"W	7916.90	320.145	0.43	-0.35	-0.26	
14841.00	91.750	340.690	6235.00	7496.63	6167.11	-5105.15	1626606.22	14280442.12	39°19'31.6803"N	81°02'55.8084"W	8005.99	320.382	1.64	1.61	0.29	
14935.00	90.340	339.060	6233.29	7590.59	6255.35	-5137.49	1626573.90	14280530.33	39°19'32.5523"N	81°02'56.2205"W	8094.64	320.604	2.29	-1.50	-1.73	
15030.00	90.520	340.870	6232.57	7685.57	6344.60	-5170.03	1626541.36	14280619.54	39°19'33.4341"N	81°02'56.6352"W	8184.32	320.824	1.91	0.19	1.91	
15124.00	90.150	340.190	6232.02	7779.57	6433.22	-5201.36	1626510.05	14280708.12	39°19'34.3099"N	81°02'57.0345"W	8272.88	321.044	0.82	-0.39	-0.72	
15218.00	90.280	340.170	6231.67	7873.56	6521.65	-5233.24	1626478.19	14280796.52	39°19'35.1837"N	81°02'57.4407"W	8361.74	321.255	0.14	0.14	-0.02	
15313.00	90.520	340.960	6231.01	7968.56	6611.23	-5264.85	1626446.59	14280886.07	39°19'36.0690"N	81°02'57.8436"W	8451.45	321.468	0.87	0.25	0.83	
15407.00	90.280	340.370	6230.35	8062.55	6699.93	-5295.97	1626415.48	14280974.73	39°19'36.9455"N	81°02'58.2402"W	8540.28	321.675	0.68	-0.26	-0.63	
15502.00	90.310	339.920	6229.86	8157.54	6789.28	-5328.23	1626383.23	14281064.04	39°19'37.8284"N	81°02'58.6514"W	8630.43	321.875	0.47	0.03	-0.47	
15596.00	89.970	340.030	6229.63	8251.53	6877.60	-5360.42	1626351.05	14281152.32	39°19'38.7011"N	81°02'59.0616"W	8719.83	322.067	0.38	-0.36	0.12	
15690.00	91.450	340.580	6228.47	8345.51	6966.09	-5392.10	1626319.39	14281240.78	39°19'39.5756"N	81°02'59.4653"W	8809.15	322.258	1.68	1.57	0.59	
15785.00	90.770	340.730	6226.63	8440.49	7055.71	-5423.56	1626287.94	14281330.36	39°19'40.4612"N	81°02'59.8664"W	8899.33	322.451	0.73	-0.72	0.16	
15879.00	91.110	340.760	6225.09	8534.48	7144.44	-5454.55	1626256.96	14281419.06	39°19'41.3380"N	81°03'00.2614"W	8988.61	322.639	0.36	0.36	0.03	
15974.00	90.550	341.120	6223.71	8629.47	7234.22	-5485.57	1626225.95	14281508.80	39°19'42.2252"N	81°03'00.6568"W	9078.85	322.828	0.70	-0.59	0.38	
16068.00	90.740	340.570	6222.65	8723.46	7323.01	-5516.42	1626195.12	14281597.56	39°19'43.1026"N	81°03'01.0499"W	9168.28	323.009	0.62	0.20	-0.59	
16162.00	90.400	340.490	6221.72	8817.46	7411.63	-5547.75	1626163.80	14281686.14	39°19'43.9783"N	81°03'01.4492"W	9257.95	323.184	0.37	-0.36	-0.09	
16257.00	90.460	340.330	6221.00	8912.45	7501.13	-5579.60	1626131.97	14281775.60	39°19'44.8627"N	81°03'01.8552"W	9348.73	323.357	0.18	0.06	-0.17	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (265 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
16351.00	91.110	340.100	6219.72	9006.43	7589.57	-5611.41	1626100.16	14281864.01	39°19'45.7366"N	81°03'2.2607"W	9438.72	323.522	0.73	0.69	-0.24	
16445.00	91.050	341.160	6217.94	9100.41	7678.23	-5642.58	1626069.01	14281952.64	39°19'46.6128"N	81°03'2.6580"W	9528.59	323.689	1.13	-0.06	1.13	
16539.00	90.770	340.980	6216.45	9194.40	7767.14	-5673.07	1626038.53	14282041.50	39°19'47.4913"N	81°03'3.0466"W	9618.32	323.856	0.35	-0.30	-0.19	
16633.00	90.430	340.500	6215.47	9288.39	7855.87	-5704.08	1626007.53	14282130.20	39°19'48.3681"N	81°03'3.4418"W	9708.31	324.017	0.63	-0.36	-0.51	
16728.00	90.580	340.270	6214.63	9383.39	7945.35	-5735.97	1625975.66	14282219.65	39°19'49.2524"N	81°03'3.8483"W	9799.49	324.173	0.29	0.16	-0.24	
16822.00	90.150	340.060	6214.03	9477.38	8033.77	-5767.86	1625943.78	14282308.04	39°19'50.1261"N	81°03'4.2548"W	9889.88	324.323	0.51	-0.46	-0.22	
16917.00	90.370	340.330	6213.60	9572.37	8123.15	-5800.05	1625911.60	14282397.38	39°19'51.0094"N	81°03'4.6651"W	9981.29	324.473	0.37	0.23	0.28	
17011.00	90.860	340.100	6212.59	9666.35	8211.60	-5831.87	1625879.80	14282485.79	39°19'51.8833"N	81°03'5.0706"W	10071.79	324.618	0.58	0.52	-0.24	
17105.00	89.910	340.600	6211.96	9760.35	8300.12	-5863.47	1625848.20	14282574.28	39°19'52.7581"N	81°03'5.4735"W	10162.30	324.761	1.14	-1.01	0.53	
17199.00	92.340	341.900	6210.11	9854.32	8389.11	-5893.68	1625818.01	14282663.23	39°19'53.6374"N	81°03'5.8585"W	10252.44	324.910	2.93	2.59	1.38	
17294.00	90.250	340.000	6207.97	9949.28	8478.87	-5924.68	1625787.02	14282752.96	39°19'54.5245"N	81°03'6.2537"W	10343.75	325.056	2.97	-2.20	-2.00	
17388.00	90.680	340.930	6207.20	10043.28	8567.46	-5956.11	1625755.60	14282841.51	39°19'55.3998"N	81°03'6.6543"W	10434.39	325.193	1.09	0.46	0.99	
17482.00	90.150	340.980	6206.52	10137.27	8656.31	-5986.78	1625724.94	14282930.32	39°19'56.2778"N	81°03'7.0453"W	10524.89	325.332	0.57	-0.56	0.05	
17576.00	89.940	340.890	6206.45	10231.27	8745.15	-6017.49	1625694.25	14283019.13	39°19'57.1558"N	81°03'7.4367"W	10615.45	325.468	0.24	-0.22	-0.10	
17671.00	89.940	339.920	6206.55	10326.27	8834.65	-6049.35	1625662.41	14283108.59	39°19'58.0401"N	81°03'7.8428"W	10707.27	325.599	1.02	0.00	-1.02	
17765.00	90.370	341.650	6206.29	10420.26	8923.41	-6080.28	1625631.48	14283197.31	39°19'58.9172"N	81°03'8.2372"W	10798.01	325.730	1.90	0.46	1.84	
17860.00	90.220	340.570	6205.81	10515.26	9013.29	-6111.04	1625600.74	14283287.16	39°19'59.8054"N	81°03'8.6292"W	10889.64	325.863	1.15	-0.16	-1.14	
17954.00	90.310	340.480	6205.37	10609.26	9101.91	-6142.38	1625569.41	14283375.74	39°20'0.6811"N	81°03'9.0287"W	10980.60	325.987	0.14	0.10	-0.10	
18048.00	90.370	340.630	6204.81	10703.25	9190.55	-6173.67	1625538.13	14283464.35	39°20'1.5570"N	81°03'9.4276"W	11071.60	326.109	0.17	0.06	0.16	
18143.00	91.050	341.720	6203.64	10798.24	9280.46	-6204.32	1625507.49	14283554.22	39°20'2.4454"N	81°03'9.8184"W	11163.35	326.236	1.35	0.72	1.15	
18237.00	89.940	341.100	6202.82	10892.23	9369.55	-6234.28	1625477.54	14283643.27	39°20'3.3258"N	81°03'10.2004"W	11254.10	326.361	1.35	-1.18	-0.66	
18331.00	90.460	341.160	6202.50	10986.23	9458.50	-6264.69	1625447.15	14283732.18	39°20'4.2048"N	81°03'10.5879"W	11345.02	326.482	0.56	0.55	0.06	
18425.00	90.000	340.080	6202.12	11080.23	9547.17	-6295.88	1625415.97	14283820.82	39°20'5.0810"N	81°03'10.9856"W	11436.19	326.597	1.25	-0.49	-1.15	
18519.00	90.090	340.090	6202.04	11174.22	9635.55	-6327.90	1625383.97	14283909.16	39°20'5.9543"N	81°03'11.3937"W	11527.62	326.706	0.10	0.10	0.01	
18614.00	91.020	340.910	6201.12	11269.21	9725.09	-6359.61	1625352.27	14283998.67	39°20'6.8391"N	81°03'11.7979"W	11619.90	326.818	1.31	0.98	0.86	
18708.00	90.520	340.990	6199.86	11363.20	9813.94	-6390.28	1625321.61	14284087.48	39°20'7.7171"N	81°03'12.1890"W	11711.07	326.930	0.54	-0.53	0.09	
18803.00	90.550	340.840	6198.97	11458.20	9903.71	-6421.34	1625290.56	14284177.22	39°20'8.6042"N	81°03'12.5850"W	11803.27	327.042	0.16	0.03	-0.16	
18897.00	90.150	340.650	6198.40	11552.19	9992.45	-6452.34	1625259.57	14284265.92	39°20'9.4811"N	81°03'12.9802"W	11894.61	327.149	0.47	-0.43	-0.20	
18991.00	90.550	340.170	6197.83	11646.19	10081.01	-6483.86	1625228.07	14284354.44	39°20'10.3561"N	81°03'13.3820"W	11986.12	327.252	0.66	0.43	-0.51	
19085.00	90.950	340.580	6196.59	11740.18	10169.54	-6515.43	1625196.51	14284442.94	39°20'11.2310"N	81°03'13.7844"W	12077.68	327.353	0.61	0.43	0.44	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWP
Slot	Slot A		

WELLPATH DATA (265 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
19180.00	90.680	340.260	6195.24	11835.16	10259.04	-6547.26	1625164.69	14284532.40	39°20'12.1153"N	81°03'14.1902"W	12170.23	327.454	0.44	-0.28	-0.34	
19274.00	90.740	340.850	6194.08	11929.15	10347.67	-6578.55	1625133.41	14284621.00	39°20'12.9912"N	81°03'14.5891"W	12261.79	327.554	0.63	0.06	0.63	
19369.00	90.800	340.390	6192.80	12024.14	10437.28	-6610.07	1625101.91	14284710.57	39°20'13.8766"N	81°03'14.9910"W	12354.34	327.653	0.49	0.06	-0.48	
19463.00	90.430	339.560	6191.79	12118.12	10525.59	-6642.26	1625069.73	14284798.85	39°20'14.7493"N	81°03'15.4013"W	12446.19	327.746	0.97	-0.39	-0.88	
19557.00	90.460	340.480	6191.06	12212.11	10613.92	-6674.38	1625037.63	14284887.15	39°20'15.6222"N	81°03'15.8108"W	12538.05	327.837	0.98	0.03	0.98	
19651.00	90.400	340.180	6190.36	12306.10	10702.44	-6706.01	1625006.00	14284975.63	39°20'16.4968"N	81°03'16.2141"W	12629.84	327.929	0.33	-0.06	-0.32	
19746.00	90.430	340.220	6189.67	12401.09	10791.82	-6738.19	1624973.83	14285064.97	39°20'17.3800"N	81°03'16.6244"W	12722.68	328.020	0.05	0.03	0.04	
19840.00	90.220	340.490	6189.14	12495.08	10880.35	-6769.80	1624942.25	14285153.46	39°20'18.2548"N	81°03'17.0272"W	12814.53	328.110	0.36	-0.22	0.29	
19934.00	90.370	340.450	6188.65	12589.08	10968.94	-6801.22	1624910.83	14285242.02	39°20'19.1302"N	81°03'17.4279"W	12906.36	328.199	0.17	0.16	-0.04	
20029.00	90.250	340.320	6188.14	12684.07	11058.42	-6833.11	1624878.96	14285331.47	39°20'20.0145"N	81°03'17.8344"W	12999.23	328.288	0.19	-0.13	-0.14	
20123.00	90.250	340.310	6187.73	12778.07	11146.93	-6864.77	1624847.31	14285419.94	39°20'20.8891"N	81°03'18.2381"W	13091.18	328.373	0.01	0.00	-0.01	
20217.00	90.220	340.050	6187.34	12872.06	11235.36	-6896.65	1624815.45	14285508.33	39°20'21.7629"N	81°03'18.6445"W	13183.21	328.457	0.28	-0.03	-0.28	
20312.00	90.520	340.460	6186.73	12967.05	11324.77	-6928.74	1624783.37	14285597.71	39°20'22.6464"N	81°03'19.0536"W	13276.21	328.541	0.53	0.32	0.43	
20406.00	90.920	341.120	6185.55	13061.04	11413.53	-6959.67	1624752.45	14285686.43	39°20'23.5235"N	81°03'19.4479"W	13368.08	328.626	0.82	0.43	0.70	
20500.00	90.370	340.110	6184.49	13155.03	11502.19	-6990.86	1624721.27	14285775.06	39°20'24.3996"N	81°03'19.8457"W	13460.04	328.709	1.22	-0.59	-1.07	
20594.00	90.520	340.110	6183.76	13249.02	11590.58	-7022.84	1624689.30	14285863.41	39°20'25.2730"N	81°03'20.2534"W	13552.19	328.788	0.16	0.16	0.00	
20688.00	90.740	340.010	6182.73	13343.00	11678.94	-7054.90	1624657.26	14285951.74	39°20'26.1461"N	81°03'20.6621"W	13644.39	328.865	0.28	0.23	-0.11	
20783.00	90.830	341.830	6181.42	13437.99	11768.71	-7085.95	1624626.22	14286041.47	39°20'27.0332"N	81°03'21.0580"W	13737.29	328.948	1.92	0.09	1.92	
20877.00	91.260	341.430	6179.71	13531.97	11857.91	-7115.57	1624596.61	14286130.63	39°20'27.9146"N	81°03'21.4357"W	13829.00	329.033	0.62	0.46	-0.43	
20972.00	90.490	341.200	6178.26	13626.95	11947.89	-7146.00	1624566.19	14286220.58	39°20'28.8037"N	81°03'21.8237"W	13921.83	329.116	0.85	-0.81	-0.24	
21066.00	90.580	341.150	6177.38	13720.95	12036.86	-7176.33	1624535.88	14286309.51	39°20'29.6829"N	81°03'22.2105"W	14013.76	329.197	0.11	0.10	-0.05	
21160.00	90.460	341.380	6176.53	13814.94	12125.87	-7206.52	1624505.70	14286398.49	39°20'30.5625"N	81°03'22.5954"W	14105.70	329.277	0.28	-0.13	0.24	
21254.00	90.580	341.390	6175.68	13908.93	12214.95	-7236.52	1624475.70	14286487.53	39°20'31.4427"N	81°03'22.9780"W	14197.61	329.356	0.13	0.13	0.01	
21349.00	90.620	341.270	6174.68	14003.93	12304.95	-7266.93	1624445.31	14286577.49	39°20'32.3320"N	81°03'23.3658"W	14290.56	329.435	0.13	0.04	-0.13	
21443.00	90.490	341.150	6173.77	14097.92	12393.93	-7297.21	1624415.04	14286666.44	39°20'33.2113"N	81°03'23.7519"W	14382.59	329.512	0.19	-0.14	-0.13	
21538.00	90.520	341.320	6172.93	14192.92	12483.88	-7327.77	1624384.50	14286756.35	39°20'34.1002"N	81°03'24.1415"W	14475.61	329.588	0.18	0.03	0.18	
21632.00	90.490	341.260	6172.10	14286.91	12572.91	-7357.92	1624354.36	14286845.34	39°20'34.9799"N	81°03'24.5260"W	14567.67	329.663	0.07	-0.03	-0.06	
21726.00	90.550	341.340	6171.25	14380.90	12661.94	-7388.06	1624324.23	14286934.34	39°20'35.8597"N	81°03'24.9103"W	14659.75	329.737	0.11	0.06	0.09	
21821.00	90.490	341.230	6170.39	14475.90	12751.92	-7418.54	1624293.76	14287024.28	39°20'36.7488"N	81°03'25.2990"W	14752.83	329.811	0.13	-0.06	-0.12	
21915.00	90.520	341.620	6169.56	14569.89	12841.01	-7448.48	1624263.83	14287113.34	39°20'37.6292"N	81°03'25.6808"W	14844.91	329.884	0.42	0.03	0.41	



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

WELLPATH DATA (265 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
22009.00	90.550	341.340	6168.88	14663.88	12930.14	-7478.34	1624233.99	14287202.44	39°20'38.5099"N	81°03'26.0616"W	14937.00	329.956	0.30	0.03	-0.30	
22104.00	90.770	341.570	6167.59	14758.87	13020.20	-7508.55	1624203.79	14287292.46	39°20'39.3999"N	81°03'26.4469"W	15030.10	330.029	0.34	0.23	0.24	
22198.00	90.250	340.760	6166.75	14852.87	13109.17	-7538.89	1624173.46	14287381.39	39°20'40.2789"N	81°03'26.8338"W	15122.34	330.097	1.02	-0.55	-0.86	
22293.00	90.550	341.320	6166.09	14947.86	13199.01	-7569.76	1624142.60	14287471.19	39°20'41.1667"N	81°03'27.2274"W	15215.62	330.165	0.67	0.32	0.59	
22387.00	90.250	340.940	6165.43	15041.86	13287.95	-7600.16	1624112.21	14287560.10	39°20'42.0456"N	81°03'27.6151"W	15307.91	330.232	0.52	-0.32	-0.40	
22482.00	90.400	341.320	6164.89	15136.86	13377.85	-7630.88	1624081.50	14287649.96	39°20'42.9339"N	81°03'28.0069"W	15401.21	330.299	0.43	0.16	0.40	
22576.00	90.400	341.420	6164.24	15230.85	13466.92	-7660.91	1624051.49	14287739.00	39°20'43.8141"N	81°03'28.3899"W	15493.47	330.366	0.11	0.00	0.11	
22671.00	90.120	340.760	6163.81	15325.85	13556.79	-7691.70	1624020.71	14287828.83	39°20'44.7021"N	81°03'28.7825"W	15586.82	330.431	0.75	-0.29	-0.69	
22765.00	90.180	341.220	6163.56	15419.85	13645.66	-7722.32	1623990.10	14287917.67	39°20'45.5803"N	81°03'29.1729"W	15679.23	330.494	0.49	0.06	0.49	
22859.00	90.490	341.270	6163.01	15513.85	13734.67	-7752.54	1623959.89	14288006.64	39°20'46.4598"N	81°03'29.5584"W	15771.59	330.557	0.33	0.33	0.05	
22953.00	90.490	341.170	6162.21	15607.84	13823.66	-7782.80	1623929.65	14288095.60	39°20'47.3392"N	81°03'29.9443"W	15863.97	330.620	0.11	0.00	-0.11	
23048.00	90.250	341.330	6161.59	15702.84	13913.62	-7813.34	1623899.12	14288185.52	39°20'48.2281"N	81°03'30.3337"W	15957.35	330.683	0.30	-0.25	0.17	
23142.00	90.430	341.100	6161.04	15796.84	14002.61	-7843.61	1623868.87	14288274.47	39°20'49.1075"N	81°03'30.7197"W	16049.77	330.744	0.31	0.19	-0.24	
23236.00	90.370	341.110	6160.38	15890.83	14091.54	-7874.05	1623838.44	14288363.37	39°20'49.9863"N	81°03'31.1079"W	16142.25	330.804	0.06	-0.06	0.01	
23331.00	90.460	341.590	6159.69	15985.83	14181.55	-7904.43	1623808.07	14288453.34	39°20'50.8757"N	81°03'31.4954"W	16235.65	330.866	0.51	0.09	0.51	
23425.00	90.310	341.360	6159.06	16079.82	14270.68	-7934.29	1623778.22	14288542.43	39°20'51.7564"N	81°03'31.8762"W	16328.05	330.927	0.29	-0.16	-0.24	
23519.00	90.460	340.990	6158.43	16173.82	14359.65	-7964.62	1623747.90	14288631.37	39°20'52.6355"N	81°03'32.2631"W	16420.56	330.985	0.42	0.16	-0.39	
23613.00	90.490	341.240	6157.65	16267.81	14448.59	-7995.05	1623717.49	14288720.27	39°20'53.5144"N	81°03'32.6511"W	16513.10	331.042	0.27	0.03	0.27	
23708.00	90.310	341.170	6156.99	16362.81	14538.52	-8025.65	1623686.89	14288810.16	39°20'54.4030"N	81°03'33.0414"W	16606.61	331.100	0.20	-0.19	-0.07	
23802.00	90.250	341.430	6156.53	16456.81	14627.55	-8055.79	1623656.77	14288899.17	39°20'55.2828"N	81°03'33.4258"W	16699.13	331.157	0.28	-0.06	0.28	
23897.00	90.650	341.490	6155.78	16551.80	14717.62	-8086.00	1623626.57	14288989.20	39°20'56.1728"N	81°03'33.8110"W	16792.61	331.215	0.43	0.42	0.06	
23991.00	90.220	341.300	6155.07	16645.80	14806.71	-8115.98	1623596.60	14289078.25	39°20'57.0531"N	81°03'34.1935"W	16885.13	331.272	0.50	-0.46	-0.20	
24086.00	90.370	341.260	6154.58	16740.79	14896.68	-8146.47	1623566.12	14289168.18	39°20'57.9422"N	81°03'34.5824"W	16978.69	331.327	0.16	0.16	-0.04	
24154.00	90.180	341.020	6154.25	16808.79	14961.03	-8168.45	1623544.15	14289232.50	39°20'58.5780"N	81°03'34.8627"W	17045.70	331.366	0.45	-0.28	-0.35	
24179.00†	90.180	341.020	6154.17	16833.79	14984.67	-8176.59	1623536.02	14289256.14	39°20'58.8116"N	81°03'34.9664"W	17070.35	331.380	0.00	0.00	0.00	Projected MD at TD: 24179'



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

HOLE & CASING SECTIONS - Ref Wellbore: Hanely Unit 1H AWB Ref Wellpath: Hanely Unit 1H AWP Proj: 24179'

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	130.00	100.00	30.00	130.00	0.00	0.00	-0.18	-0.07
17.5in Open Hole	130.00	990.00	860.00	130.00	989.97	-0.18	-0.07	-3.73	-4.22
13.375in Casing Surface	30.00	970.00	940.00	30.00	969.97	0.00	0.00	-3.35	-3.73
12.25in Open Hole	990.00	3368.00	2378.00	989.97	3076.37	-3.73	-4.22	-702.83	-777.44
9.625in Casing Intermediate	30.00	3338.00	3308.00	30.00	3051.41	0.00	0.00	-691.51	-765.24
8.75in Open Hole	3368.00	6176.00	2808.00	3076.37	5431.96	-702.83	-777.44	-1356.91	-2150.68
8.5in Open Hole	6176.00	24179.00	18003.00	5431.96	6154.17	-1356.91	-2150.68	14984.67	-8176.59
5.5in Casing Production	30.00	24159.00	24129.00	30.00	6154.23	0.00	0.00	14965.76	-8170.08



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Hanely Unit 1H POE Rev-3	6198.00	-1502.61	-2475.52	1629234.79	14272775.48	39°18'15.8879"N	81°02'22.3038"W	point
Hanely Unit 1H POE Rev-4	6198.00	-1030.04	-2638.86	1629071.52	14273247.86	39°18'20.5580"N	81°02'24.3842"W	point
Hanely Unit 1H BHL Rev-3	6245.00	14998.78	-8178.92	1623533.69	14289270.24	39°20'58.9510"N	81°03'34.9962"W	point
Hanely Unit 1H LP Rev-3	6245.00	-788.87	-2722.22	1628988.20	14273488.94	39°18'22.9413"N	81°02'25.4460"W	point
Hanely Unit 1H 50' L/R Hard Line R-2	6500.00	6984.37	-5408.89	1626302.60	14281259.05	39°19'39.7562"N	81°02'59.6792"W	rectangle
2D Rectangle 16959.2 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Hanely Unit 1H AWB Ref Wellpath: Hanely Unit 1H AWP Proj: 24179'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	885.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2"> (100'-885')	Hanely Unit 1H AWB	4/18/2024
885.00	3294.00	BH NaviTrak (2019) (Axial Corr+HRGM)	02 APS EM <12-3/8"> (885')(1038'-3294')	Hanely Unit 1H AWB	4/18/2024
3294.00	6101.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <8-3/4"> (3294')(3362'-6101')	Hanely Unit 1H AWB	6/6/2024
6101.00	24179.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	04 BH AT Curve <8-1/2"> (6101')(6165'-24154')	Hanely Unit 1H AWB	6/6/2024



Actual Wellpath Report

Hanely Unit 1H AWP Proj: 24179'
Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Hanely Unit 1H
Field	Ritchie	API	47-085-10512-0000
Facility	Pinewood Pad	Wellbore	Hanely Unit 1H AWB
Slot	Slot A		

COMMENTS	
Wellpath general comments API: 47-085-10512-0000 BH Job #: 112220037 Rig: H&P 519 Duration: 6/7/2024-6/13/2024 Gyrodata MS Gyro <17-1/2"> (100'-885') APS EM <12-3/8"> (885')(1038'-3294') APS EM <8-3/4"> (3294')(3362'-6101') BH AT Curve <8-1/2"> (6101')(6165'-24154') Sycamore: 6882' MD Middlesex: 7008' MD Burkett: 7194' MD Marcellus POE: 7235' MD Projected MD at TD: 24179'	