



## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'

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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

### REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999601	Report Generated	28/Mar/2022 at 16:45
Convergence at slot	0.08° East	Database	WA_MPL_EASTERNUS_Defn

### WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	59.99	-0.23	1675734.94	14223778.05	39°10'11.1960"N	80°52'31.3878"W
Facility Reference Pt			1675735.17	14223718.08	39°10'10.6030"N	80°52'31.3860"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 531 (RKB) to Facility Vertical Datum	1155.00ft
Horizontal Reference Pt	Slot	H&P 531 (RKB) to Mean Sea Level	1155.00ft
Vertical Reference Pt	H&P 531 (RKB)	H&P 531 (RKB) to Ground Level at Slot (Slot E)	30.00ft
MD Reference Pt	H&P 531 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.15°



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WELLPATH DATA (223 stations) † = interpolated, ‡ = extrapolated station																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
0.00†	0.000	266.160	0.00	0.00	0.00	0.00	1675734.94	14223778.05	39°10'11.1960"N	80°52'31.3878"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.000	266.160	30.00	0.00	0.00	0.00	1675734.94	14223778.05	39°10'11.1960"N	80°52'31.3878"W	0.00	0.000	0.00	0.00	0.00	
100.00	0.390	266.160	100.00	-0.06	-0.02	-0.24	1675734.70	14223778.03	39°10'11.1958"N	80°52'31.3909"W	0.24	266.160	0.56	0.56	0.00	Gyrodata MS Gyro <17-1/2"> (100'-500')
200.00	0.260	202.410	200.00	0.02	-0.25	-0.66	1675734.28	14223777.80	39°10'11.1935"N	80°52'31.3963"W	0.71	249.475	0.36	-0.13	-63.75	
300.00	0.230	180.160	300.00	0.38	-0.66	-0.75	1675734.19	14223777.39	39°10'11.1895"N	80°52'31.3974"W	1.00	228.728	0.10	-0.03	-22.25	
400.00	0.230	168.270	400.00	0.77	-1.06	-0.71	1675734.23	14223776.99	39°10'11.1856"N	80°52'31.3969"W	1.27	213.932	0.05	0.00	-11.89	
500.00	0.520	136.700	499.99	1.38	-1.58	-0.36	1675734.58	14223776.47	39°10'11.1803"N	80°52'31.3924"W	1.62	192.763	0.35	0.29	-31.57	
600.00	0.560	145.020	599.99	2.26	-2.31	0.23	1675735.17	14223775.74	39°10'11.1731"N	80°52'31.3849"W	2.33	174.254	0.09	0.04	8.32	Gyrodata MS Gyro <12-1/4"> (500')(600'-645')
645.00	0.650	140.670	644.99	2.72	-2.69	0.52	1675735.46	14223775.36	39°10'11.1694"N	80°52'31.3813"W	2.74	169.051	0.22	0.20	-9.67	
684.00	0.540	141.410	683.99	3.10	-3.01	0.78	1675735.72	14223775.05	39°10'11.1663"N	80°52'31.3780"W	3.10	165.535	0.28	-0.28	1.90	APS EM <12-1/4"> (645')(684'-2744')
776.00	1.620	40.030	775.97	2.83	-2.35	1.88	1675736.82	14223775.70	39°10'11.1727"N	80°52'31.3640"W	3.01	141.293	1.96	1.17	-110.20	
867.00	4.110	22.450	866.85	-0.28	1.65	3.96	1675738.89	14223779.70	39°10'11.2122"N	80°52'31.3376"W	4.29	67.351	2.87	2.74	-19.32	
958.00	6.530	17.360	957.45	-6.91	9.60	6.75	1675741.68	14223787.65	39°10'11.2908"N	80°52'31.3020"W	11.74	35.080	2.71	2.66	-5.59	
1048.00	9.760	12.720	1046.54	-17.54	21.93	9.95	1675744.89	14223799.97	39°10'11.4126"N	80°52'31.2611"W	24.09	24.407	3.66	3.59	-5.16	
1143.00	12.750	8.940	1139.70	-33.68	40.15	13.36	1675748.29	14223818.18	39°10'11.5926"N	80°52'31.2176"W	42.31	18.400	3.24	3.15	-3.98	
1238.00	15.150	6.180	1231.89	-54.21	62.85	16.32	1675751.25	14223840.87	39°10'11.8170"N	80°52'31.1795"W	64.93	14.558	2.62	2.53	-2.91	
1332.00	17.370	7.180	1322.13	-77.95	88.99	19.40	1675754.33	14223867.00	39°10'12.0752"N	80°52'31.1400"W	91.08	12.297	2.38	2.36	1.06	
1427.00	20.060	8.590	1412.10	-105.15	119.17	23.60	1675758.54	14223897.17	39°10'12.3735"N	80°52'31.0860"W	121.49	11.204	2.87	2.83	1.48	
1522.00	23.370	9.690	1500.34	-136.17	153.86	29.21	1675764.14	14223931.85	39°10'12.7164"N	80°52'31.0143"W	156.61	10.750	3.51	3.48	1.16	
1617.00	26.640	9.750	1586.43	-171.44	193.44	35.99	1675770.92	14223971.41	39°10'13.1074"N	80°52'30.9275"W	196.76	10.540	3.44	3.44	0.06	
1711.00	29.920	11.190	1669.20	-210.24	237.22	44.11	1675779.03	14224015.17	39°10'13.5400"N	80°52'30.8238"W	241.28	10.534	3.56	3.49	1.53	
1806.00	32.280	13.760	1750.54	-252.13	285.11	54.75	1675789.66	14224063.04	39°10'14.0132"N	80°52'30.6878"W	290.32	10.869	2.85	2.48	2.71	
1901.00	33.700	19.700	1830.24	-294.12	334.58	69.67	1675804.58	14224112.49	39°10'14.5020"N	80°52'30.4974"W	341.75	11.763	3.72	1.49	6.25	
1996.00	34.170	20.330	1909.06	-335.41	384.41	87.82	1675822.73	14224162.30	39°10'14.9942"N	80°52'30.2661"W	394.31	12.869	0.62	0.49	0.66	
2090.00	34.670	19.660	1986.60	-376.80	434.34	105.99	1675840.89	14224212.21	39°10'15.4875"N	80°52'30.0345"W	447.08	13.713	0.67	0.53	-0.71	
2184.00	34.870	18.860	2063.82	-418.98	484.94	123.67	1675858.56	14224262.80	39°10'15.9874"N	80°52'29.8091"W	500.46	14.307	0.53	0.21	-0.85	
2279.00	35.660	18.830	2141.39	-462.38	536.85	141.39	1675876.27	14224314.69	39°10'16.5003"N	80°52'29.5833"W	555.16	14.754	0.83	0.83	-0.03	
2374.00	36.110	18.410	2218.35	-506.57	589.62	159.16	1675894.04	14224367.44	39°10'17.0216"N	80°52'29.3566"W	610.73	15.107	0.54	0.47	-0.44	
2468.00	36.440	19.160	2294.14	-550.62	642.27	177.07	1675911.94	14224420.07	39°10'17.5418"N	80°52'29.1283"W	666.24	15.413	0.59	0.35	0.80	
2563.00	37.650	21.940	2369.96	-594.82	695.84	197.18	1675932.04	14224473.62	39°10'18.0710"N	80°52'28.8721"W	723.24	15.821	2.17	1.27	2.93	





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Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (223 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)	
2658.00	38.650	25.090	2444.68	-638.15	749.63	220.60	1675955.45	14224527.38	39°10'18.6023"N	80°52'28.5737"W	781.42	16.398	2.30	1.05	3.32	
2707.00	38.790	26.190	2482.91	-660.02	777.26	233.86	1675968.71	14224555.00	39°10'18.8752"N	80°52'28.4048"W	811.68	16.746	1.43	0.29	2.24	
2744.00	39.160	26.150	2511.67	-676.47	798.15	244.13	1675978.97	14224575.88	39°10'19.0815"N	80°52'28.2742"W	834.65	17.007	1.00	1.00	-0.11	
2852.00	39.080	23.430	2595.47	-725.77	860.00	272.69	1676007.53	14224637.70	39°10'19.6924"N	80°52'27.9103"W	902.20	17.593	1.59	-0.07	-2.52	APS EM <8-3/4"> (2744')(2852'-5976')
2946.00	40.680	20.250	2667.61	-771.47	915.94	295.08	1676029.91	14224693.62	39°10'20.2450"N	80°52'27.6251"W	962.30	17.857	2.76	1.70	-3.38	
3041.00	39.210	15.860	2740.45	-820.20	973.88	314.01	1676048.83	14224751.54	39°10'20.8175"N	80°52'27.3837"W	1023.26	17.871	3.35	-1.55	-4.62	
3135.00	34.730	12.570	2815.54	-867.50	1028.63	327.97	1676062.78	14224806.27	39°10'21.3584"N	80°52'27.2056"W	1079.65	17.684	5.21	-4.77	-3.50	
3230.00	32.450	14.350	2894.68	-911.93	1079.75	340.18	1676074.98	14224857.36	39°10'21.8635"N	80°52'27.0497"W	1132.06	17.487	2.61	-2.40	1.87	
3324.00	26.550	22.010	2976.48	-948.96	1123.71	354.32	1676089.11	14224901.31	39°10'22.2978"N	80°52'26.8693"W	1178.24	17.501	7.44	-6.28	8.15	
3419.00	21.030	35.400	3063.44	-975.02	1157.34	372.17	1676106.96	14224934.92	39°10'22.6299"N	80°52'26.6420"W	1215.71	17.827	8.10	-5.81	14.09	
3514.00	19.110	36.490	3152.67	-993.83	1183.74	391.30	1676126.08	14224961.31	39°10'22.8906"N	80°52'26.3987"W	1246.73	18.292	2.06	-2.02	1.15	
3609.00	15.420	29.780	3243.38	-1011.02	1207.21	406.83	1676141.60	14224984.78	39°10'23.1224"N	80°52'26.2011"W	1273.92	18.624	4.41	-3.88	-7.06	
3704.00	14.250	29.320	3335.21	-1027.17	1228.37	418.82	1676153.60	14225005.93	39°10'23.3314"N	80°52'26.0484"W	1297.81	18.827	1.24	-1.23	-0.48	
3798.00	13.390	24.960	3426.49	-1042.74	1248.32	429.08	1676163.85	14225025.87	39°10'23.5285"N	80°52'25.9178"W	1320.01	18.969	1.44	-0.91	-4.64	
3892.00	13.790	34.970	3517.88	-1057.21	1267.37	440.10	1676174.86	14225044.92	39°10'23.7166"N	80°52'25.7776"W	1341.61	19.150	2.53	0.43	10.65	
3987.00	13.600	38.770	3610.18	-1069.88	1285.36	453.58	1676188.34	14225062.90	39°10'23.8942"N	80°52'25.6060"W	1363.04	19.437	0.97	-0.20	4.00	
4081.00	13.390	35.910	3701.58	-1082.07	1302.79	466.89	1676201.64	14225080.32	39°10'24.0663"N	80°52'25.4368"W	1383.93	19.716	0.74	-0.22	-3.04	
4176.00	12.980	32.580	3794.08	-1095.07	1320.69	479.08	1676213.83	14225098.21	39°10'24.2431"N	80°52'25.2816"W	1404.90	19.938	0.91	-0.43	-3.51	
4271.00	12.880	28.080	3886.67	-1108.96	1339.03	489.81	1676224.56	14225116.54	39°10'24.4241"N	80°52'25.1451"W	1425.80	20.092	1.06	-0.11	-4.74	
4366.00	12.720	23.870	3979.31	-1123.87	1357.93	499.03	1676233.77	14225135.44	39°10'24.6109"N	80°52'25.0277"W	1446.72	20.178	1.00	-0.17	-4.43	
4460.00	11.360	27.450	4071.24	-1137.87	1375.61	507.49	1676242.22	14225153.11	39°10'24.7855"N	80°52'24.9200"W	1466.24	20.250	1.65	-1.45	3.81	
4555.00	9.630	26.350	4164.65	-1149.94	1391.04	515.33	1676250.06	14225168.53	39°10'24.9378"N	80°52'24.8202"W	1483.42	20.328	1.83	-1.82	-1.16	
4650.00	9.580	35.650	4258.33	-1160.13	1404.58	523.46	1676258.19	14225182.07	39°10'25.0716"N	80°52'24.7167"W	1498.95	20.439	1.63	-0.05	9.79	
4745.00	10.170	37.150	4351.92	-1169.41	1417.69	533.13	1676267.86	14225195.17	39°10'25.2010"N	80°52'24.5936"W	1514.62	20.609	0.68	0.62	1.58	
4839.00	11.570	44.440	4444.23	-1178.28	1431.04	544.75	1676279.47	14225208.51	39°10'25.3328"N	80°52'24.4459"W	1531.21	20.840	2.08	1.49	7.76	
4934.00	13.290	42.750	4537.00	-1187.76	1445.86	558.83	1676293.55	14225223.33	39°10'25.4791"N	80°52'24.2668"W	1550.10	21.132	1.85	1.81	-1.78	
5029.00	12.440	35.790	4629.62	-1198.88	1462.18	572.23	1676308.94	14225239.64	39°10'25.6402"N	80°52'24.0964"W	1570.16	21.373	1.86	-0.89	-7.33	
5123.00	12.810	41.290	4721.35	-1209.93	1478.22	585.02	1676319.73	14225255.68	39°10'25.7986"N	80°52'23.9336"W	1589.78	21.592	1.34	0.39	5.85	
5218.00	13.160	43.370	4813.93	-1220.21	1494.00	599.40	1676334.10	14225271.45	39°10'25.9543"N	80°52'23.7508"W	1609.75	21.861	0.61	0.37	2.19	
5313.00	13.650	45.410	4906.34	-1230.12	1509.73	614.81	1676349.50	14225287.17	39°10'26.1096"N	80°52'23.5549"W	1630.11	22.158	0.72	0.52	2.15	



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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)	
5407.00	14.860	44.990	4997.44	-1240.25	1526.04	631.23	1676365.92	14225303.48	39°10'26.2706"N	80°52'23.3461"W	1651.44	22.472	1.29	1.29	-0.45	
5502.00	14.100	40.530	5089.43	-1251.51	1543.45	647.36	1676382.04	14225320.88	39°10'26.4424"N	80°52'23.1409"W	1673.71	22.754	1.42	-0.80	-4.69	
5597.00	13.580	34.790	5181.67	-1264.02	1561.41	661.25	1676395.92	14225338.83	39°10'26.6197"N	80°52'22.9643"W	1695.65	22.952	1.54	-0.55	-6.04	
5691.00	13.580	28.190	5273.05	-1278.09	1580.20	672.76	1676407.43	14225357.61	39°10'26.8053"N	80°52'22.8178"W	1717.45	23.062	1.65	0.00	-7.02	
5786.00	13.140	20.810	5365.49	-1294.00	1600.12	681.86	1676416.53	14225377.53	39°10'27.0021"N	80°52'22.7018"W	1739.35	23.080	1.85	-0.46	-7.77	
5881.00	13.010	17.660	5458.02	-1310.91	1620.41	688.94	1676423.61	14225397.81	39°10'27.2025"N	80°52'22.6116"W	1760.78	23.034	0.76	-0.14	-3.32	
5976.00	13.330	20.740	5550.53	-1327.94	1640.84	696.07	1676430.73	14225418.23	39°10'27.4043"N	80°52'22.5208"W	1782.37	22.987	0.81	0.34	3.24	
6072.00	11.780	23.390	5644.23	-1343.73	1660.18	703.88	1676438.53	14225437.57	39°10'27.5954"N	80°52'22.4213"W	1803.23	22.976	1.72	-1.61	2.76	BH AT Curve <8-1/2"> (5976)(6072-21213)
6167.00	9.530	58.530	5737.68	-1352.63	1673.20	714.45	1676449.10	14225450.58	39°10'27.7240"N	80°52'22.2868"W	1819.35	23.122	7.11	-2.37	36.99	
6261.00	10.470	95.610	5830.35	-1350.80	1676.44	729.60	1676464.25	14225453.81	39°10'27.7557"N	80°52'22.0944"W	1828.32	23.519	6.80	1.00	39.45	
6355.00	12.720	114.850	5922.46	-1340.11	1671.25	747.50	1676482.14	14225448.63	39°10'27.7042"N	80°52'21.8672"W	1830.80	24.098	4.73	2.39	20.47	
6450.00	17.560	139.360	6014.22	-1319.54	1655.95	766.35	1676500.99	14225433.34	39°10'27.5528"N	80°52'21.6280"W	1824.69	24.834	8.34	5.09	25.80	
6545.00	24.130	145.310	6102.97	-1287.51	1629.08	786.76	1676521.39	14225406.48	39°10'27.2869"N	80°52'21.3694"W	1809.12	25.778	7.26	6.92	6.26	
6639.00	30.260	144.460	6186.54	-1246.30	1593.98	811.49	1676546.10	14225371.39	39°10'26.9396"N	80°52'21.0560"W	1788.65	26.981	6.53	6.52	-0.90	
6662.00†	31.919	143.662	6206.23	-1234.95	1584.36	818.46	1676553.07	14225361.78	39°10'26.8444"N	80°52'20.9677"W	1783.28	27.320	7.43	7.21	-3.47	Sycamore: 6662' MD
6734.00	37.140	141.580	6265.53	-1196.29	1551.98	843.26	1676577.87	14225329.40	39°10'26.5240"N	80°52'20.6533"W	1766.27	28.517	7.43	7.25	-2.89	
6828.00	42.520	142.580	6337.69	-1139.40	1504.48	880.23	1676614.82	14225281.93	39°10'26.0540"N	80°52'20.1848"W	1743.06	30.331	5.76	5.72	1.06	
6883.00†	46.096	147.777	6377.05	-1102.48	1472.94	902.10	1676636.68	14225250.40	39°10'25.7420"N	80°52'19.9076"W	1727.23	31.485	9.26	6.50	9.45	Middlesex: 6883' MD
6923.00	48.830	151.170	6404.10	-1073.62	1447.55	917.05	1676651.62	14225225.02	39°10'25.4908"N	80°52'19.7183"W	1713.59	32.355	9.26	6.84	8.48	
7017.00	57.310	158.530	6460.58	-999.06	1379.56	948.67	1676683.23	14225157.06	39°10'24.8184"N	80°52'19.3179"W	1674.27	34.515	10.97	9.02	7.83	
7064.00	63.640	159.230	6483.73	-958.22	1341.43	963.39	1676697.95	14225118.94	39°10'24.4413"N	80°52'19.1317"W	1651.53	35.685	13.53	13.47	1.49	
7084.00†	65.901	159.909	6492.25	-940.13	1324.47	969.71	1676704.26	14225101.99	39°10'24.2736"N	80°52'19.0518"W	1641.51	36.210	11.71	11.30	3.39	Burkett: 7084' MD
7112.00	69.070	160.820	6502.97	-914.27	1300.11	978.40	1676712.95	14225077.64	39°10'24.0327"N	80°52'18.9419"W	1627.13	36.963	11.71	11.32	3.25	
7159.00	72.470	160.370	6518.45	-869.91	1258.26	993.14	1676727.68	14225035.81	39°10'23.6189"N	80°52'18.7555"W	1602.98	38.284	7.29	7.23	-0.96	
7194.00†	73.833	160.758	6528.59	-836.41	1226.68	1004.29	1676738.82	14225004.24	39°10'23.3065"N	80°52'18.6145"W	1585.35	39.307	4.04	3.89	1.11	Tully: 7194' MD
7206.00	74.300	160.890	6531.89	-824.87	1215.78	1008.08	1676742.61	14224993.34	39°10'23.1987"N	80°52'18.5666"W	1579.35	39.664	4.04	3.89	1.10	
7269.00†	77.443	160.937	6547.26	-763.79	1158.05	1028.05	1676762.58	14224935.64	39°10'22.6279"N	80°52'18.3140"W	1548.54	41.597	4.99	4.99	0.07	Marcellus POE: 7269' MD
7301.00	79.040	160.960	6553.78	-732.46	1128.44	1038.28	1676772.80	14224906.04	39°10'22.3351"N	80°52'18.1847"W	1533.43	42.617	4.99	4.99	0.07	
7396.00	86.430	161.590	6565.79	-638.29	1039.25	1068.51	1676803.02	14224816.88	39°10'21.4531"N	80°52'17.8025"W	1490.55	45.795	7.81	7.78	0.66	
7490.00	90.180	160.880	6568.57	-544.35	950.30	1098.73	1676833.23	14224727.97	39°10'20.5735"N	80°52'17.4204"W	1452.68	49.143	4.06	3.99	-0.76	





# Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (223 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
7585.00	89.780	159.260	6568.60	-449.37	860.99	1131.11	1676865.59	14224638.70	39°10'19.6904"N	80°52'17.0108"W	1421.52	52.722	1.76	-0.42	-1.71	
7680.00	90.650	160.410	6568.25	-354.39	771.82	1163.85	1676898.33	14224549.56	39°10'18.8085"N	80°52'16.5966"W	1396.52	56.449	1.52	0.92	1.21	
7774.00	92.190	162.730	6565.92	-260.43	682.68	1193.56	1676928.02	14224460.45	39°10'17.9270"N	80°52'16.2210"W	1375.00	60.232	2.96	1.64	2.47	
7869.00	90.310	161.240	6563.84	-165.47	592.36	1222.93	1676957.38	14224370.18	39°10'17.0340"N	80°52'15.8497"W	1358.84	64.155	2.52	-1.98	-1.57	
7963.00	90.460	160.340	6563.21	-71.48	503.60	1253.86	1676988.30	14224281.45	39°10'16.1562"N	80°52'15.4586"W	1351.21	68.118	0.97	0.16	-0.96	
8058.00	89.690	160.790	6563.09	23.51	414.01	1285.47	1677019.90	14224191.90	39°10'15.2703"N	80°52'15.0589"W	1350.50	72.148	0.94	-0.81	0.47	
8153.00	89.450	160.570	6563.80	118.51	324.37	1316.90	1677051.31	14224102.29	39°10'14.3838"N	80°52'14.6615"W	1356.26	76.163	0.34	-0.25	-0.23	
8247.00	89.690	160.680	6564.51	212.50	235.69	1348.08	1677082.48	14224013.65	39°10'13.5069"N	80°52'14.2671"W	1368.53	80.083	0.28	0.26	0.12	
8342.00	89.820	160.300	6564.91	307.49	146.15	1379.81	1677114.20	14223924.14	39°10'12.6214"N	80°52'13.8659"W	1387.53	83.954	0.42	0.14	-0.40	
8437.00	90.430	160.140	6564.71	402.48	56.75	1411.96	1677146.33	14223834.78	39°10'11.7374"N	80°52'13.4594"W	1413.10	87.698	0.66	0.64	-0.17	
8531.00	92.000	160.790	6562.71	496.45	-31.81	1443.38	1677177.74	14223746.25	39°10'10.8616"N	80°52'13.0620"W	1443.73	91.263	1.81	1.67	0.69	
8626.00	90.180	160.460	6560.91	591.42	-121.41	1474.89	1677209.24	14223656.69	39°10'9.9755"N	80°52'12.6635"W	1479.88	94.706	1.95	-1.92	-0.35	
8721.00	90.460	159.310	6560.37	686.40	-210.61	1507.56	1677241.90	14223567.52	39°10'9.0934"N	80°52'12.2504"W	1522.20	97.953	1.25	0.29	-1.21	
8815.00	90.550	160.620	6559.55	780.37	-298.92	1539.76	1677274.09	14223479.25	39°10'8.2201"N	80°52'11.8431"W	1568.51	100.986	1.40	0.10	1.39	
8910.00	93.730	162.460	6556.00	875.29	-388.95	1569.82	1677304.13	14223389.25	39°10'7.3298"N	80°52'11.4631"W	1617.29	103.916	3.87	3.35	1.94	
9004.00	91.110	156.500	6552.03	969.11	-476.86	1602.73	1677337.03	14223301.38	39°10'6.4605"N	80°52'11.0469"W	1672.16	106.569	6.92	-2.79	-6.34	
9098.00	90.460	158.300	6550.74	1062.90	-563.63	1638.85	1677373.13	14223214.65	39°10'5.6023"N	80°52'10.5899"W	1733.06	108.979	2.04	-0.69	1.91	
9193.00	90.740	160.840	6549.74	1157.85	-652.64	1672.00	1677406.27	14223125.67	39°10'4.7221"N	80°52'10.1706"W	1794.86	111.322	2.69	0.29	2.67	
9288.00	90.620	160.620	6548.62	1252.84	-742.31	1703.35	1677437.61	14223036.03	39°10'3.8353"N	80°52'9.7742"W	1858.07	113.547	0.26	-0.13	-0.23	
9382.00	90.250	158.100	6547.90	1346.78	-830.27	1736.48	1677470.73	14222948.11	39°10'2.9655"N	80°52'9.3551"W	1924.77	115.554	2.71	-0.39	-2.68	
9477.00	90.520	160.800	6547.26	1441.73	-919.21	1769.83	1677504.06	14222859.20	39°10'2.0859"N	80°52'8.9334"W	1994.30	117.447	2.86	0.28	2.84	
9571.00	90.030	162.260	6546.81	1535.73	-1008.37	1799.61	1677533.82	14222770.09	39°10'1.2043"N	80°52'8.5570"W	2062.86	119.263	1.64	-0.52	1.55	
9665.00	90.430	162.390	6546.44	1629.70	-1097.93	1828.15	1677562.35	14222680.56	39°10'0.3187"N	80°52'8.1963"W	2132.50	120.988	0.45	0.43	0.14	
9760.00	90.280	162.240	6545.85	1724.68	-1188.44	1857.00	1677591.20	14222590.09	39°09'59.4237"N	80°52'7.8315"W	2204.73	122.618	0.22	-0.16	-0.16	
9855.00	90.620	162.210	6545.10	1819.66	-1278.90	1886.00	1677620.19	14222499.66	39°09'58.5291"N	80°52'7.4650"W	2278.73	124.141	0.36	0.36	-0.03	
9949.00	90.580	162.330	6544.12	1913.64	-1368.43	1914.63	1677648.80	14222410.17	39°09'57.6438"N	80°52'7.1032"W	2353.38	125.554	0.13	-0.04	0.13	
10044.00	90.280	162.540	6543.40	2008.61	-1459.00	1943.30	1677677.46	14222319.64	39°09'56.7482"N	80°52'6.7409"W	2430.04	126.899	0.39	-0.32	0.22	
10139.00	90.310	162.600	6542.91	2103.58	-1549.64	1971.75	1677705.90	14222229.03	39°09'55.8520"N	80°52'6.3813"W	2507.82	128.164	0.07	0.03	0.06	
10234.00	90.680	162.810	6542.09	2198.54	-1640.34	2000.00	1677734.13	14222138.37	39°09'54.9551"N	80°52'6.0244"W	2586.64	129.358	0.45	0.39	0.22	
10329.00	90.620	162.540	6541.02	2293.50	-1731.02	2028.28	1677762.41	14222047.72	39°09'54.0584"N	80°52'5.6669"W	2666.53	130.479	0.29	-0.06	-0.28	



## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (223 stations)																	
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)			(ft)	(°)	("/100ft)	("/100ft)	("/100ft)		
10424.00	91.020	162.890	6539.66	2388.46	-1821.72	2056.51	1677790.62	14221957.06	39°09'53.1615"N	80°52'5.3102"W	2747.34	131.536	0.56	0.42	0.37		
10519.00	90.920	163.420	6538.05	2483.39	-1912.63	2084.03	1677818.14	14221866.18	39°09'52.2625"N	80°52'4.9625"W	2828.67	132.544	0.57	-0.11	0.56		
10612.00	89.850	162.410	6537.42	2576.34	-2001.52	2111.35	1677845.45	14221777.33	39°09'51.3836"N	80°52'4.6172"W	2909.28	133.470	1.58	-1.15	-1.09		
10707.00	90.250	162.660	6537.34	2671.31	-2092.14	2139.87	1677873.95	14221686.74	39°09'50.4875"N	80°52'4.2569"W	2992.67	134.354	0.50	0.42	0.26		
10802.00	90.580	162.160	6536.65	2766.28	-2182.70	2168.57	1677902.65	14221596.23	39°09'49.5920"N	80°52'3.8941"W	3076.83	135.186	0.63	0.35	-0.53		
10896.00	90.250	162.570	6535.97	2860.26	-2272.28	2197.05	1677931.11	14221506.68	39°09'48.7062"N	80°52'3.5343"W	3160.74	135.964	0.56	-0.35	0.44		
10991.00	90.340	162.870	6535.48	2955.22	-2362.99	2225.27	1677959.32	14221416.01	39°09'47.8092"N	80°52'3.1777"W	3245.85	136.719	0.33	0.09	0.32		
11085.00	90.490	162.270	6534.80	3049.19	-2452.67	2253.43	1677987.46	14221326.36	39°09'46.9224"N	80°52'2.8219"W	3330.69	137.424	0.66	0.16	-0.64		
11180.00	91.200	162.420	6533.40	3144.16	-2543.19	2282.23	1678016.26	14221235.88	39°09'46.0273"N	80°52'2.4578"W	3417.07	138.095	0.76	0.75	0.16		
11275.00	90.550	162.670	6531.95	3239.12	-2633.80	2310.73	1678044.74	14221145.31	39°09'45.1313"N	80°52'2.0978"W	3503.76	138.738	0.73	-0.68	0.26		
11369.00	89.260	162.520	6532.11	3333.09	-2723.49	2338.84	1678072.85	14221055.65	39°09'44.2444"N	80°52'1.7425"W	3589.93	139.345	1.38	-1.37	-0.16		
11464.00	89.570	162.350	6533.08	3428.06	-2814.06	2367.51	1678101.50	14220965.12	39°09'43.3488"N	80°52'1.3802"W	3677.51	139.926	0.37	0.33	-0.18		
11559.00	89.780	162.310	6533.61	3523.04	-2904.58	2396.35	1678130.33	14220874.64	39°09'42.4537"N	80°52'1.0158"W	3765.51	140.477	0.23	0.22	-0.04		
11654.00	90.000	163.140	6533.80	3618.00	-2995.29	2424.56	1678158.53	14220783.96	39°09'41.5567"N	80°52'0.6594"W	3853.60	141.011	0.90	0.23	0.87		
11749.00	89.820	161.970	6533.95	3712.97	-3085.92	2453.04	1678186.99	14220693.37	39°09'40.6605"N	80°52'0.2995"W	3942.12	141.518	1.25	-0.19	-1.23		
11844.00	89.200	160.300	6534.76	3807.96	-3175.81	2483.75	1678217.70	14220603.51	39°09'39.7716"N	80°51'59.9112"W	4031.72	141.972	1.88	-0.65	-1.76		
11939.00	89.850	159.370	6535.55	3902.93	-3264.98	2516.50	1678250.43	14220514.38	39°09'38.8898"N	80°51'59.4972"W	4122.24	142.377	1.19	0.68	-0.98		
12034.00	89.690	160.630	6535.93	3997.91	-3354.25	2548.99	1678282.91	14220425.14	39°09'38.0070"N	80°51'59.0864"W	4212.88	142.768	1.34	-0.17	1.33		
12129.00	89.600	160.410	6536.52	4092.90	-3443.81	2580.67	1678314.58	14220335.62	39°09'37.1213"N	80°51'58.6859"W	4303.45	143.153	0.25	-0.09	-0.23		
12224.00	90.680	160.980	6536.28	4187.90	-3533.47	2612.08	1678345.97	14220246.00	39°09'36.2347"N	80°51'58.2888"W	4394.12	143.527	1.29	1.14	0.60		
12316.00	89.690	157.040	6535.99	4279.81	-3619.34	2645.02	1678378.90	14220160.16	39°09'35.3854"N	80°51'57.8722"W	4482.83	143.841	4.42	-1.08	-4.28		
12411.00	89.260	160.000	6536.86	4374.70	-3707.73	2679.81	1678413.67	14220071.80	39°09'34.5113"N	80°51'57.4323"W	4574.78	144.142	3.15	-0.45	3.12		
12506.00	89.850	160.770	6537.60	4469.69	-3797.21	2711.70	1678445.55	14219982.36	39°09'33.6264"N	80°51'57.0291"W	4666.06	144.468	1.02	0.62	0.81		
12601.00	89.600	160.460	6538.05	4564.68	-3886.83	2743.23	1678477.07	14219892.78	39°09'32.7402"N	80°51'56.6305"W	4757.39	144.786	0.42	-0.26	-0.33		
12696.00	90.090	160.810	6538.31	4659.68	-3976.45	2774.73	1678508.56	14219803.19	39°09'31.8539"N	80°51'56.2323"W	4848.84	145.093	0.63	0.52	0.37		
12791.00	88.580	159.210	6539.41	4754.65	-4065.72	2807.20	1678541.01	14219713.96	39°09'30.9711"N	80°51'55.8217"W	4940.69	145.377	2.32	-1.59	-1.68		
12886.00	89.690	160.250	6540.84	4849.60	-4154.82	2840.11	1678573.91	14219624.89	39°09'30.0899"N	80°51'55.4057"W	5032.77	145.645	1.60	1.17	1.09		
13074.00	90.280	160.860	6540.89	5037.59	-4332.10	2902.69	1678636.47	14219447.69	39°09'28.3368"N	80°51'54.6145"W	5214.66	146.176	0.45	0.31	0.32		
13168.00	89.940	158.850	6540.71	5131.56	-4420.34	2935.06	1678668.83	14219359.48	39°09'27.4642"N	80°51'54.2052"W	5306.03	146.416	2.17	-0.36	-2.14		
13263.00	89.510	158.050	6541.17	5226.45	-4508.70	2969.96	1678703.71	14219271.16	39°09'26.5903"N	80°51'53.7639"W	5398.98	146.626	0.96	-0.45	-0.84		





## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (223 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	["/100ft]	["/100ft]	["/100ft]	
13358.00	89.380	157.480	6542.09	5321.28	-4596.63	3005.90	1678739.64	14219183.26	39°09'25.7207"N	80°51'53.3092"W	5492.22	146.818	0.62	-0.14	-0.60	
13453.00	86.950	157.420	6545.13	5416.03	-4684.31	3042.31	1678776.04	14219095.61	39°09'24.8535"N	80°51'52.8487"W	5585.56	146.998	2.56	-2.56	-0.06	
13547.00	89.880	161.140	6547.73	5509.92	-4772.18	3075.55	1678809.25	14219007.79	39°09'23.9846"N	80°51'52.4285"W	5677.38	147.199	5.04	3.12	3.96	
13642.00	89.850	161.060	6547.96	5604.92	-4862.05	3106.32	1678840.01	14218917.94	39°09'23.0958"N	80°51'52.0396"W	5769.64	147.426	0.09	-0.03	-0.08	
13737.00	89.380	160.200	6548.59	5699.91	-4951.67	3137.83	1678871.51	14218828.36	39°09'22.2095"N	80°51'51.6413"W	5862.17	147.638	1.03	-0.49	-0.91	
13832.00	89.350	158.930	6549.65	5794.87	-5040.69	3170.99	1678904.66	14218739.38	39°09'21.3292"N	80°51'51.2220"W	5955.14	147.827	1.34	-0.03	-1.34	
13926.00	89.230	159.700	6550.81	5888.81	-5128.62	3204.19	1678937.85	14218651.48	39°09'20.4596"N	80°51'50.8022"W	6047.28	148.004	0.83	-0.13	0.82	
14021.00	89.200	159.300	6552.11	5983.76	-5217.60	3237.46	1678971.10	14218562.54	39°09'19.5797"N	80°51'50.3816"W	6140.40	148.181	0.42	-0.03	-0.42	
14115.00	89.820	160.570	6552.92	6077.73	-5305.89	3269.71	1679003.34	14218474.29	39°09'18.7065"N	80°51'49.9739"W	6232.45	148.357	1.50	0.66	1.35	
14209.00	89.720	161.860	6553.29	6171.73	-5394.88	3299.98	1679033.59	14218385.33	39°09'17.8265"N	80°51'49.5913"W	6324.12	148.546	1.38	-0.11	1.37	
14304.00	88.950	160.960	6554.40	6266.72	-5484.91	3330.26	1679063.87	14218295.34	39°09'16.9362"N	80°51'49.2086"W	6416.77	148.735	1.25	-0.81	-0.95	
14399.00	90.120	162.040	6555.17	6361.71	-5575.00	3360.40	1679094.00	14218205.29	39°09'16.0453"N	80°51'48.8277"W	6509.45	148.920	1.68	1.23	1.14	
14494.00	89.780	161.600	6555.25	6456.71	-5665.25	3390.04	1679123.62	14218115.07	39°09'15.1528"N	80°51'48.4532"W	6602.08	149.104	0.59	-0.36	-0.46	
14588.00	89.450	161.730	6555.88	6550.70	-5754.48	3419.61	1679153.18	14218025.88	39°09'14.2704"N	80°51'48.0795"W	6693.86	149.279	0.38	-0.35	0.14	
14682.00	89.350	161.760	6556.87	6644.69	-5843.74	3449.05	1679182.61	14217936.65	39°09'13.3877"N	80°51'47.7075"W	6785.67	149.450	0.11	-0.11	0.03	
14777.00	89.080	161.510	6558.17	6739.68	-5933.90	3478.98	1679212.53	14217846.53	39°09'12.4962"N	80°51'47.3293"W	6878.55	149.617	0.39	-0.28	-0.26	
14871.00	88.950	160.680	6559.78	6833.66	-6022.81	3509.43	1679242.97	14217757.65	39°09'11.6169"N	80°51'46.9445"W	6970.68	149.771	0.89	-0.14	-0.88	
15060.00	89.290	161.720	6562.69	7022.64	-6201.71	3570.33	1679303.84	14217578.83	39°09'9.8478"N	80°51'46.1748"W	7156.01	150.071	0.58	0.18	0.55	
15155.00	89.510	161.830	6563.68	7117.63	-6291.93	3600.04	1679333.54	14217488.64	39°09'8.9556"N	80°51'45.7994"W	7249.05	150.223	0.26	0.23	0.12	
15249.00	89.510	161.460	6564.49	7211.62	-6381.15	3629.64	1679363.13	14217399.46	39°09'8.0733"N	80°51'45.4254"W	7341.21	150.368	0.39	0.00	-0.39	
15344.00	88.950	161.720	6565.76	7306.81	-6471.28	3659.64	1679393.12	14217309.36	39°09'7.1821"N	80°51'45.0464"W	7434.41	150.511	0.65	-0.59	0.27	
15439.00	93.640	161.270	6563.62	7401.56	-6561.32	3689.78	1679423.24	14217219.36	39°09'6.2917"N	80°51'44.6656"W	7527.64	150.649	4.96	4.94	-0.47	
15533.00	89.170	161.670	6561.31	7495.50	-6650.40	3719.63	1679453.08	14217130.32	39°09'5.4108"N	80°51'44.2883"W	7619.94	150.781	4.77	-4.76	0.43	
15628.00	89.720	161.850	6562.23	7590.49	-6740.62	3749.37	1679482.81	14217040.13	39°09'4.5186"N	80°51'43.9126"W	7713.21	150.916	0.61	0.58	0.19	
15723.00	89.380	161.220	6562.98	7685.49	-6830.72	3779.46	1679512.88	14216950.06	39°09'3.6275"N	80°51'43.5324"W	7806.60	151.044	0.75	-0.36	-0.66	
15817.00	89.230	160.280	6564.12	7779.48	-6919.46	3810.44	1679543.86	14216861.36	39°09'2.7500"N	80°51'43.1408"W	7899.27	151.159	1.01	-0.16	-1.00	
15912.00	90.310	161.760	6564.50	7874.47	-7009.29	3841.34	1679574.74	14216771.57	39°09'1.8616"N	80°51'42.7503"W	7992.87	151.276	1.93	1.14	1.56	
16101.00	90.890	161.330	6562.52	8063.45	-7188.56	3901.17	1679634.54	14216592.37	39°09'0.0889"N	80°51'41.9944"W	8178.90	151.512	0.38	0.31	-0.23	
16196.00	90.370	161.070	6561.48	8158.45	-7278.49	3931.78	1679665.14	14216502.48	39°08'59.1996"N	80°51'41.6076"W	8272.56	151.622	0.61	-0.55	-0.27	
16385.00	89.420	159.280	6561.82	8347.41	-7456.27	3995.87	1679729.21	14216324.76	39°08'57.4413"N	80°51'40.7974"W	8459.49	151.813	1.07	-0.50	-0.95	



## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

WELLPATH DATA (223 stations)																
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	
16479.00	89.480	161.730	6562.73	8441.39	-7544.87	4027.24	1679760.57	14216236.20	39°08'56.5652"N	80°51'40.4010"W	8552.42	151.908	2.61	0.06	2.61	
16574.00	90.550	161.380	6562.70	8536.39	-7634.99	4057.30	1679790.61	14216146.12	39°08'55.6740"N	80°51'40.0213"W	8646.08	152.013	1.19	1.13	-0.37	
16668.00	91.230	161.340	6561.24	8630.38	-7724.05	4087.34	1679820.64	14216057.09	39°08'54.7933"N	80°51'39.6417"W	8738.84	152.114	0.72	0.72	-0.04	
16763.00	88.980	161.770	6561.07	8725.37	-7814.16	4117.39	1679850.68	14215967.02	39°08'53.9021"N	80°51'39.2619"W	8832.56	152.215	2.41	-2.37	0.45	
16858.00	90.060	160.170	6561.86	8820.36	-7903.96	4148.37	1679881.65	14215877.25	39°08'53.0141"N	80°51'38.8705"W	8926.46	152.307	2.03	1.14	-1.68	
16953.00	91.480	161.470	6560.59	8915.35	-7993.68	4179.57	1679912.84	14215787.57	39°08'52.1269"N	80°51'38.4762"W	9020.41	152.397	2.03	1.49	1.37	
17048.00	90.950	161.440	6558.57	9010.32	-8083.73	4209.78	1679943.04	14215697.56	39°08'51.2364"N	80°51'38.0945"W	9114.21	152.491	0.56	-0.56	-0.03	
17142.00	91.170	161.170	6556.83	9104.31	-8172.75	4239.91	1679973.15	14215608.57	39°08'50.3560"N	80°51'37.7139"W	9207.10	152.580	0.37	0.23	-0.29	
17237.00	90.280	161.170	6555.63	9199.30	-8262.66	4270.57	1680003.80	14215518.70	39°08'49.4669"N	80°51'37.3265"W	9301.04	152.668	0.94	-0.94	0.00	
17426.00	90.340	161.340	6554.61	9388.29	-8441.63	4331.30	1680064.51	14215339.80	39°08'47.6970"N	80°51'36.5591"W	9487.96	152.838	0.10	0.03	0.09	
17520.00	90.250	161.190	6554.12	9482.29	-8530.65	4361.49	1680094.69	14215250.82	39°08'46.8167"N	80°51'36.1776"W	9580.95	152.921	0.19	-0.10	-0.16	
17615.00	89.940	161.040	6553.97	9577.29	-8620.53	4392.24	1680125.42	14215160.97	39°08'45.9278"N	80°51'35.7891"W	9674.99	153.001	0.36	-0.33	-0.16	
17710.00	89.880	161.370	6554.12	9672.29	-8710.47	4422.85	1680156.02	14215071.07	39°08'45.0385"N	80°51'35.4024"W	9769.03	153.080	0.35	-0.06	0.35	
17805.00	90.280	161.500	6553.98	9767.29	-8800.53	4453.10	1680186.25	14214981.05	39°08'44.1479"N	80°51'35.0202"W	9863.03	153.160	0.44	0.42	0.14	
17899.00	90.120	161.300	6553.65	9861.29	-8889.61	4483.08	1680216.22	14214892.00	39°08'43.2669"N	80°51'34.6414"W	9956.07	153.238	0.27	-0.17	-0.21	
17994.00	90.250	160.920	6553.35	9956.29	-8979.50	4513.83	1680246.97	14214802.15	39°08'42.3780"N	80°51'34.2628"W	10050.18	153.312	0.42	0.14	-0.40	
18089.00	90.180	161.330	6552.99	10051.29	-9069.39	4544.57	1680277.69	14214712.29	39°08'41.4891"N	80°51'33.8645"W	10144.30	153.365	0.44	-0.07	0.43	
18183.00	90.150	161.080	6552.72	10145.29	-9158.38	4574.85	1680307.96	14214623.34	39°08'40.6091"N	80°51'33.4819"W	10237.44	153.457	0.27	-0.03	-0.27	
18278.00	90.310	161.830	6552.34	10240.28	-9248.44	4605.07	1680338.16	14214533.31	39°08'39.7184"N	80°51'33.1002"W	10331.52	153.530	0.81	0.17	0.79	
18373.00	92.280	162.010	6550.19	10335.25	-9338.72	4634.54	1680367.62	14214443.07	39°08'38.8256"N	80°51'32.7279"W	10425.48	153.606	2.08	2.07	0.19	
18468.00	90.220	161.430	6548.12	10430.21	-9428.90	4664.33	1680397.40	14214352.93	39°08'37.9338"N	80°51'32.3515"W	10519.51	153.679	2.25	-2.17	-0.61	
18562.00	90.180	161.540	6547.79	10524.21	-9518.04	4694.18	1680427.24	14214263.83	39°08'37.0524"N	80°51'31.9744"W	10612.65	153.748	0.12	-0.04	0.12	
18752.00	90.150	161.520	6547.24	10714.21	-9698.25	4754.37	1680487.41	14214083.69	39°08'35.2702"N	80°51'31.2140"W	10800.93	153.885	0.02	-0.02	-0.01	
18941.00	90.150	161.740	6546.75	10903.20	-9877.62	4813.94	1680546.95	14213904.39	39°08'33.4964"N	80°51'30.4616"W	10988.23	154.017	0.12	0.00	0.12	
19036.00	89.720	161.130	6546.86	10998.20	-9967.67	4844.18	1680577.18	14213814.37	39°08'32.6059"N	80°51'30.0795"W	11082.44	154.081	0.79	-0.45	-0.64	
19130.00	90.220	161.470	6546.91	11092.20	-10056.71	4874.32	1680607.31	14213725.37	39°08'31.7254"N	80°51'29.6988"W	11175.71	154.141	0.64	0.53	0.36	
19225.00	90.220	161.590	6546.54	11187.19	-10146.82	4904.41	1680637.39	14213635.30	39°08'30.8343"N	80°51'29.3186"W	11269.92	154.203	0.13	0.00	0.13	
19319.00	90.250	162.070	6546.16	11281.19	-10236.13	4933.73	1680666.69	14213546.02	39°08'29.9511"N	80°51'28.9483"W	11363.10	154.266	0.51	0.03	0.51	
19414.00	90.280	161.190	6545.72	11376.18	-10326.28	4963.67	1680696.62	14213455.90	39°08'29.0595"N	80°51'28.5701"W	11457.32	154.327	0.93	0.03	-0.93	
19508.00	90.430	161.650	6545.13	11470.18	-10415.38	4993.62	1680726.56	14213366.84	39°08'28.1784"N	80°51'28.1918"W	11550.60	154.385	0.51	0.16	0.49	





## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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### REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

### WELLPATH DATA (223 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
19603.00	90.000	161.210	6544.78	11565.18	-10505.44	5023.87	1680756.80	14213276.82	39°08'27.2878"N	80°51'27.8096"W	11644.89	154.442	0.65	-0.45	-0.46	
19697.00	90.060	161.380	6544.73	11659.17	-10594.47	5054.02	1680786.93	14213187.82	39°08'28.4074"N	80°51'27.4288"W	11738.22	154.497	0.19	0.06	0.18	
19886.00	90.120	161.290	6544.43	11848.17	-10773.53	5114.50	1680847.39	14213008.84	39°08'24.6366"N	80°51'26.6647"W	11925.90	154.605	0.06	0.03	-0.05	
19981.00	90.340	159.510	6544.05	11943.16	-10863.02	5146.37	1680879.25	14212919.38	39°08'23.7516"N	80°51'26.2620"W	12020.41	154.651	1.89	0.23	-1.87	
20076.00	90.000	161.230	6543.77	12038.15	-10952.50	5178.28	1680911.15	14212829.94	39°08'22.8667"N	80°51'25.8588"W	12114.94	154.695	1.85	-0.36	1.81	
20266.00	90.280	161.390	6543.30	12228.15	-11132.48	5239.17	1680972.01	14212650.03	39°08'21.0869"N	80°51'25.0897"W	12303.69	154.797	0.17	0.15	0.08	
20455.00	90.180	161.250	6542.55	12417.14	-11311.52	5299.70	1681032.52	14212471.06	39°08'19.3163"N	80°51'24.3250"W	12491.49	154.896	0.09	-0.05	-0.07	
20550.00	90.250	161.010	6542.19	12512.14	-11401.41	5330.42	1681063.23	14212381.21	39°08'18.4273"N	80°51'23.9369"W	12585.93	154.943	0.26	0.07	-0.25	
20644.00	90.400	161.100	6541.66	12606.14	-11490.32	5360.94	1681093.73	14212292.33	39°08'17.5481"N	80°51'23.5513"W	12679.40	154.988	0.19	0.16	0.10	
20833.00	90.120	161.420	6540.80	12795.14	-11669.30	5421.68	1681154.43	14212113.43	39°08'15.7781"N	80°51'22.7843"W	12867.28	155.080	0.22	-0.15	0.17	
21023.00	90.220	161.350	6540.24	12985.14	-11849.36	5482.31	1681215.05	14211933.44	39°08'13.9974"N	80°51'22.0182"W	13056.15	155.172	0.06	0.05	-0.04	
21213.00	90.150	161.510	6539.62	13175.13	-12029.46	5542.82	1681275.54	14211753.41	39°08'12.2163"N	80°51'21.2540"W	13245.03	155.261	0.09	-0.04	0.08	
21265.00‡	90.150	161.510	6539.49	13227.13	-12078.78	5559.31	1681292.02	14211704.11	39°08'11.7286"N	80°51'21.0457"W	13296.72	155.286	0.00	0.00	0.00	Projected MD at TD: 21265'

### HOLE & CASING SECTIONS - Ref Wellbore: Earl Unit 2H AWB Ref Wellpath: Earl Unit 2H AWP Proj: 21265'

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	-0.05	-0.42
17.5in Open Hole	130.00	594.00	464.00	130.00	593.99	-0.05	-0.42	-2.27	0.20
13.375in Casing Surface	30.00	574.00	544.00	30.00	573.99	0.00	0.00	-2.11	0.09
12.25in Open Hole	594.00	2821.00	2227.00	593.99	2571.41	-2.27	0.20	842.12	264.80
9.625in Casing Intermediate	30.00	2800.00	2770.00	30.00	2555.11	0.00	0.00	830.06	259.31
8.75in Open Hole	2821.00	6045.00	3224.00	2571.41	5617.82	842.12	264.80	1655.02	701.69
8.5in Open Hole	6045.00	21265.00	15220.00	5617.82	6539.49	1655.02	701.69	-12078.78	5559.31
5.5in Casing Production	30.00	21245.00	21215.00	30.00	6539.54	0.00	0.00	-12059.81	5552.97



## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Earl Unit 2H POE Rev-3	6549.00	1162.90	1034.54	1676769.07	14224940.48	39°10'22.6757"N	80°52'18.2315"W	point
Earl Unit 2H BHL Rev-3	6572.00	-12099.33	5562.00	1681294.71	14211683.57	39°08'11.6255"N	80°51'21.0120"W	point
Earl Unit 2H LP Rev-3	6572.00	980.56	1096.79	1676831.29	14224758.21	39°10'20.8726"N	80°52'17.4444"W	point
Earl Unit 2H 50' L/R Hard Line	7000.00	-5468.22	3298.27	1679031.89	14218312.02	39°09'17.1017"N	80°51'49.6144"W	rectangle
2D Rectangle 14013.7 x 100.								

WELLPATH COMPOSITION - Ref Wellbore: Earl Unit 2H AWB Ref Wellpath: Earl Unit 2H AWP Proj: 21265'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
30.00	500.00	Gyrodata 2015 - GC+WIR+DPIPE	01 Gyrodata MS Gyro <17-1/2"> (100'-500')	Earl Unit 2H AWB	04/Jan/2022	
500.00	645.00	Gyrodata 2015 - GC+WIR+DPIPE	02 Gyrodata MS Gyro <12-1/4"> (500')(600'-645')	Earl Unit 2H AWB	07/Jan/2022	
645.00	2744.00	BH NaviTrak (2019) (Axial Corr+HRGM)	03 APS EM <12-1/4"> (645')(684'-2744')	Earl Unit 2H AWB	04/Jan/2022	
2744.00	5976.00	BH NaviTrak (2019) (Axial Corr+HRGM)	04 APS EM <8-3/4"> (2744')(2852'-5976')	Earl Unit 2H AWB	26/Feb/2022	
5976.00	21265.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	05 BH AT Curve <8-1/2"> (5976')(6072'-21213')	Earl Unit 2H AWB	26/Feb/2022	





## Actual Wellpath Report

Earl Unit 2H AWP Proj: 21265'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Earl Unit 2H
Field	Ritchie	API	47-085-10415-0000
Facility	Weekley West Pad	Wellbore	Earl Unit 2H AWB
Slot	Slot E		

COMMENTS
<p><b>Wellpath general comments</b>            API: 47-085-10415-0000            BH Job #: 111180543            Rig: H&amp;P 531            Duration: 3/1/2022-3/5/2022            Gyrodata MS Gyro &lt;17-1/2"&gt; (100'-500')            Gyrodata MS Gyro &lt;12-1/4"&gt; (500')(600'-645')            APS EM &lt;12-1/4"&gt; (645')(684'-2744')            APS EM &lt;8-3/4"&gt; (2744')(2852'-5976')            BH AT Curve &lt;8-1/2"&gt; (5976')(6072'-21213')            Sycamore: 6662' MD            Middlesex: 6883' MD            Burkett: 7084' MD            Tully: 7194' MD            Marcellus POE: 7269' MD            Projected MD at TD: 21265'</p>



# ANTERO RESOURCES CORPORATION

Location: Ritchie County, WV  
Field: Ritchie  
Facility: Weekley West Pad

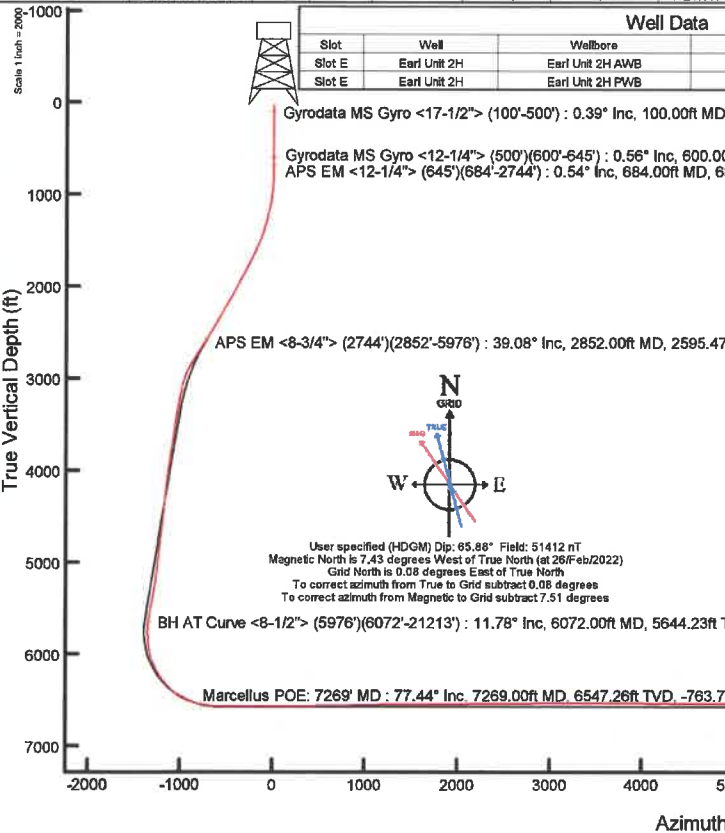
Slot: Slot E  
Well: Earl Unit 2H  
Wellbore: Earl Unit 2H PWB



Plot reference wellbore is Earl Unit 2H PWP Rev-B.0	Grid System: NAD27 / UTM Zone 17 North, US feet
True vertical depths are referenced to H&P 531 (RKB)	North Reference: Grid north
Reference wellbore measured depths are referenced to H&P 531 (RKB)	Scale: True distance
H&P 531 (RKB) to Mean Sea Level: 1155 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot E): -1125 feet	Depths are in feet
Offset wellbore MDs are referenced to each path's default MD datum	Created by: selway on 2022-03-28; Database: WA_MPL_EASTERNMS_Defn

Location Information				
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Weekley West Pad	1675735.170	14223718.080	39°10'10.8030"N	80°52'31.3880"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot E	59.89	-0.23	1675734.940	14223778.050
Comment: Earl Unit 2H				
H&P 531 (RKB) to Ground level (At Slot: Slot E)			39ft	
Mean Sea Level to Ground level (At Slot: Slot E)			-1125ft	
H&P 531 (RKB) to Mean Sea Level			1155ft	

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	2744.00	39.160	26.150	2511.67	798.15	244.13	1.00	-676.47
Proj. to Bottom	2821.00	39.160	26.150	2571.38	841.80	265.56	0.00	-710.85
Drill Out	2901.00	39.160	26.150	2633.41	887.14	287.82	0.00	-746.57
Drop	3750.51	13.684	27.875	3387.94	1222.28	455.80	3.00	-1009.47
Curve KOP	6057.00	13.684	27.875	5628.97	1704.60	710.90	0.00	-1383.49
POE	7284.47	75.385	161.151	6549.00	1162.90	1034.54	7.00	-768.27
Landing Pt.	7478.97	90.000	161.151	6572.00	980.56	1096.79	7.00	-573.60
BHL	21300.02	90.000	161.151	6572.00	-12099.33	5562.00	0.00	13247.45



Well Data			
Slot	Well	Wellbore	Wellpath
Slot E	Earl Unit 2H	Earl Unit 2H AWP	Earl Unit 2H AWP Proj: 21265'
Slot E	Earl Unit 2H	Earl Unit 2H PWB	Earl Unit 2H PWP Rev-B.0

Gyrodata MS Gyro <17-1/2"> (100'-500') : 0.39° Inc, 100.00ft MD, 100.00ft TVD, -0.06ft VS

Gyrodata MS Gyro <12-1/4"> (500')(600'-645') : 0.56° Inc, 600.00ft MD, 599.99ft TVD, 2.26ft VS

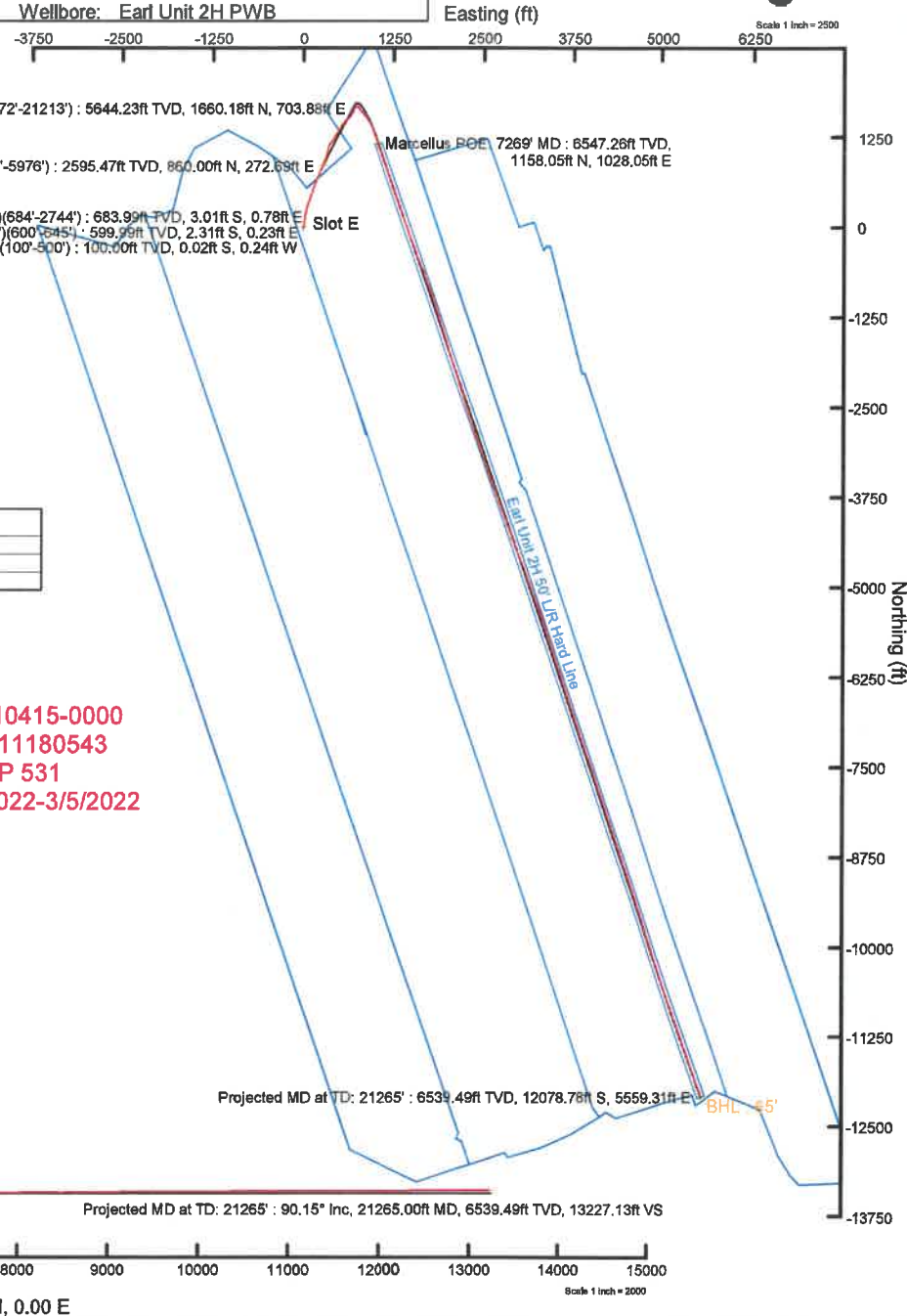
APS EM <12-1/4"> (645')(684'-2744') : 0.54° Inc, 684.00ft MD, 683.99ft TVD, 3.10ft VS

APS EM <8-3/4"> (2744')(2852'-5976') : 39.08° Inc, 2852.00ft MD, 2595.47ft TVD, -725.77ft VS

BH AT Curve <8-1/2"> (5976')(6072'-21213') : 11.78° Inc, 6072.00ft MD, 5644.23ft TVD, -1343.73ft VS

Marcellus POE: 7269' MD : 77.44° Inc, 7269.00ft MD, 6547.26ft TVD, -763.79ft VS

API: 47-085-10415-0000  
BH Job #: 111180543  
Rig: H&P 531  
Duration: 3/1/2022-3/5/2022



Projected MD at TD: 21265' : 6539.49ft TVD, 12078.76ft S, 5559.31ft E

Projected MD at TD: 21265' : 90.15° Inc, 21265.00ft MD, 6539.49ft TVD, 13227.13ft VS