



# Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264' Page 1 of 9



				VB	
			47-085-10483-0000	Vellbore Hazelbaker Unit 1H AWB	
REFERENCE WELLPATH IDENTIFICATION	Derator ANTERO RESOURCES CORPORATION	ield Ritchie	acility Jackson Bad		

	WellArchitect® 6.0	Edsaryar	8/4/2023 at 2:51:28 PM	WA_MPL_EASTERNUS_Defn
	Software System	User	Report Generated	Database
Projection System NAD77 / ITTM Zone 17 North 115 2-14			Convertience at sint	

WELLPATH LOCATION

	and here	The second secon				
	LUCAI COURTINATES	unates	Grid cor	Grid coordinates		
	Al and PELY				Geodraphic	Geodraphic coordinates
	In North T	East[ft]	EastingIUS #1	Northing II IC 41		
					atitude	amaituda
OUL LUCATION	-29.99	0.91	1CAEDA7 24	1100101011	200000	rongiuae
Tanit. D. 6		0.0	10.1400401	1426/216.35	30°17'70 0/10'1	COOLOUL DO LOUIL
					N 01 + 0.07 11 00	M.,6180, L.AC. 08
			1645046 AD	44707040 00		
Field Deferance Dt			01-01-01-01	14201240.33	39°17'21 2374"N	00%5014 000 41147
			000			N 1990.1 80 00
			0.00	000		
					0,000,000	85°29'19 3013"W

WELLPATH DATUM			
Calculation method	Minimum curvature		
Horizontal Reference Pt		HAR 218 (KKB) to Facility Vertical Datum	1065.00ft
Vertical Reference Pt	H&P 519 (RKR)	H&P 519 (RKB) to Mean Sea Level	1065.00ft
MD Reference Pt		H&P 519 (RKB) to Ground Level at Slot (Slot F)	30.00ft
Field Vertical Reference		Section Origin	N 0.00, E 0.00 ft
		Section Azimuth	161 210

RECEIVED Office Of Oil and Gas

APR 30 2024

WV Department of Environmental Protection

06/14/2024



REFERENCE WELLPATH IDENTIFICATION

# Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264' Page 2 of 9



Operator	ANIE	AN IERO RESOURCES CORPORATION	12122	J L L L L L L					IMA		Undine L	Ill finit an					
Field	Ritchie	ie									Under 10	TIALEIDAKET UNIT 1H					
Facility	Jacks	Jackson Pad							AP		4/-085-1	4/-085-10483-0000					
Slot	Slot E								2	vvelibore	Hazelbak	Hazelbaker Unit 1H AWB	AWB				
500	21010								_								
AATE I DA	100																
FL	AU UI	141 H	statio	_	= interp	† = interpolated, ‡ = extrapolated station	xtrapola	ted station									
0 [¥]			TVD Ve	Vert Sect N	North	East Grid	Grid East	Grid North	Latitude	Lon	Longitude	Closure Dist	Closure Dir	DLS	Build Rate T	urn Rate	Turn Rate Comments
0.00+	0.000	58.740	000	6			č	_	10 0012100	_		[ft]	[_]	[°/100ft]	[°/100ft]	[°/100ft]	
30.00			30.00	0000		_	+	0.30	39-1/ 20.9410"N	_	80°59'1.0819"W	00.00	0.000	0.00	00.00	00.0	0
100.00	1	T	00.001	00.0	0.00	-	_	16.35	39°17'20.9410"N	_	80°59'1.0819"W	00.00	0.000	00.0	0.00	00.00	0
00,000			00.000	70.07	40.0	_	-	16.39	39°17'20.9414"N	_	80°59'1.0810"W	0.08	58.740	0.19	0.19	000	0.00 Gvrodata MS Gvro <17 1/2"> /100' 264"
264.00	1.5		00.002		117		_	16.47	39°17'20.9422"N	-	80°59'1.0786"W	0.29	65.225	0.05	-0.02	19.60	
507 00	2 150 164 050		00.40			0.42 16450		_	39°17'20.9421"N	-	80°59'1.0766"W	0.43	75.124	0.14	0.11	37.09	
596.00	5 170 166 410		200.34 EDE 7E	4.10	-4.30	2.04 1645049.35		-	39°17'20.8980"N		80°59'1.0559"W	4.81	154.850	0.85	0.81	25.50	25.50APS FM 12-1/4"> (264"//507" 3311")
GRE OO	7 520 100 000				-4.00	3.44 1645050./5		06.50	39°17'20.8436"N	-	80°59'1.0381"W	10.44	160.736	3.40	3.39	2.65	
776.00	000.001 020.1			1				96.67	39°17'20.7464"N	_	80°59'1.0268"W	20.16	167.580	3.12	261	15 77	
00.011	100001	. 8						83.20	39°17'20.6132"N		80°59'1.0393"W	33.33	174.218	2.71	2.50	6 90	
00.00	0/C'601 000.71				-			14267166.54 39	39°17'20.4485"N		80°59'1.0705"W	49.84	178 958	263	7 57	100	
904.UU	15.140 189.420	89.420 94		. 1	_		-	45.91	39°17'20.2445"N		80°59'1.1144"W	70.51	182.067	346	3 46	0.01	
100.001	11.120	11.1 ZU 168.85U 1035.33		88.64 -9	-95.88 -		_	_	39°17'19.9934"N		80°59'1.1663"W	96.11	183.949	2.84	2 84	0.63	
00.001	1 0407 00	20.340 108.010 1124.13		115.96 -126.32 -11.29	26.32 -1	1.29 16450	_	_	39°17'19.6925"N	-	80°59'1.2258"W	126.83	185.107	3.00	3 00	90.0	
100 000	20.130 10	109.000 1211.36	1	46.97 -16	50.91 -1	146.97 -160.91 -16.65 1645030.66		55.50	39°17'19.3506"N		80°59'1.2941"W	161.77	185.909	2.82	2.82	0.41	
1472.00	1 040.02	23.040 166.020 1298.53		80.43 -15	38.22 -2			1200	39°17'18.9819"N	-	80°59'1.3677"W	199.49	186.457	0.50	0.47	070-	
1517.00	24.0001	24.000 18/.340 1385.44		214.69 -236.22	36.22 -2	_			39°17'18.6064"N		80°59'1.4355"W	237.84	186.702	0.66	0.38	-1.35	
1611 00	25 010 15	24:400 100.000 14/ 1.10 25 010 183 800 1555 58		72- 10-242	-2/4.51 -3	_	_	-	39°17'18.2279"N	_	80°59'1.4894"W	276.37	186.648	0.99	0.43	-2.17	
1705.00	22 830 18	22 830 184 160 1642 50		12- 02.02	-313.0/ -3	_			39°17'17.8408"N	_	80°59'1.5291"W	315.63	186.386	0.93	0.65	-1.60	
1800.00	22.200 18	22.200 184.370 1730 26	100	354 26 387 07 40 46	2 201 0	-31./4 1645009.58		14266864.80 39	39°17'17.4651"N	-	80°59'1.5628"W	353.71	186.126	2.32	-2.32	0.38	
1894.00	22.610 18	22.610 182.280 1817 16	8 B - 1	387 45 473 73 47 57	1 272		<b></b>	212	39"1/"1/.1065"N	-	80°59'1.5972"W	390.07	185.952	0.67	-0.66	0.22	
1989.00	22.590 15	22.590 180.320 1904.87		21 73 46	0 22 4	421 73 460 22 43 35 1645003 08		21.13	V 150/01/11/000	+	80°59'1.6237"W	425.86	185.730	0.95	0.44	-2.22	
2084.00	23.030 17	23.030 179.990 1992.44		456.57 497.05	7 05 4	43 45 1645003 88 147567		00.01	09 1/ 10.3924 N	+	80-591.6343 W	462.26	185.381	0.79	-0.02	-2.06	
2179.00	23.290 17	23.290 179.450 2079.78		492 00 -534 41	4 41 4	43 26 1645004 06	1 90 10	31.50	011 10.020	-	80°59'1.6356'W	498.95	184.996	0.48	0.46	-0.35	
2273.00	22.950 17	77 960 216		527 20 57	-571 31 A			01.7	N_L609'6L / L_60	_	80°59'1.6334"W	536.16	184.628	0.35	0.27	-0.57	
2368.00	22.440 17	22.440 176.380 2253 RB		562 43 _607	10.1 10- 10-10-			17.04	3971/15.2944 N	1000	80°59'1.6229"W	572.89	184.248	0.72	-0.36	-1.59	
2462.00	21.030 15	21.030 180.040 2341 20	1	595 71 -647 60	2 60 20	_	_	00.00	39"11"14.9326"N	_	80°59'1.6000"W	609.27	183.824	0.84	-0.54	-1.66	
2556.00	20.380 15	20.380 182 120 2429 13		12 07 87L	2 10 2			+	39"1/'14.5889"N	-	80°59'1.5859"W	643.90	183.518	2.08	-1.50	3.89	
2651.00	19.770 17	19.770 179.860 2518.36		7 64 -70F	2 51 A	657 64 _708 51 40 70 1645000 20 14266540.71	1 07.70	_	39°17'14.2605"N	-	80°59'1.5938"W	677.10	183.397	1.04	-0.69	2.21	
2746.00	19.380 18	19.380 184.300 2607 87		7 27 74	1 000	687 37 -740 30 41 B4 1645005 40 442650	1 00.00		39°1/'13.9383"	-	80°59'1.6011"W	709.68	183.288	1.04	-0.64	-2.38	
					- 1	00101 401	1 21.00	0.00	39-17-13.6242"N	-	80°59'1.6157"W	741.48	183.235	1.62	-0.41	4.67	

RECEIVED Office Of Oil and Gas

APR 30 2024

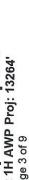


ANTERO RESOURCES CORPORATION Ritchie

Operator Field

REFERENCE WELLPATH IDENTIFICATION

### Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264' Page 3 of 9





Operator	ANTERO RESOURCES CORPORATION	IMA	Hamaltan 11 - 11 - 11				
Field	Ritchie	IDAA	nazelbaker Unit 1H				
Facility	Indexes Dad	API	47-085-10483-0000				
r acility	Jackson Pag	Wellbore	Hazelbaker Unit 1H AWB	AWR			
Slot	Slot F						
WELLPA	WELLPATH DATA (147 stations)						
	Inclination Azimuth TVD Vert Sect North East Crid Fast Crid Month I		I				
[ft]			Longitude Closure Di	Closure Dist Closure Dir	DLS	e.	Turn Rate Comments
2840.00	715.67 -771.14 -44.63 1645002.70 14266445.52	39°17'13 3194"N 80°5	80°50'1 661.0"MV 770.4		~/100ft	[°/100ft]	[°/100ft]
2935.00	743.50 -801.41 -47.19 1645000.14 14266415 26	_			0.68	-0.31	1.84
3029.00	771.43 -831.74 -49.61 1644997 72 14766284 04	_			1.23	-0.92	-2.57
3124.00	800.41 -863.54 -53 12 1644094 22 1426552 46	-			1.57	1.43	2.02
3218.00	828.69 -894.53 -56.40 1644000 02 14766277 10	-12			0.61	0.25	1.66
3311.00	856 15 -074 18 -58 20 1644000 04 440600 c4	-		1 183.608	1.18	-0.93	-2.22
3405.00	883 40 _053 20 58 76 1611000 50 1000000 21	-		2 183.609	1.12	-0.63	-2.87
3500.00		_	80°59'1.8314"W 955.03	3 183.527	1.18	-0.71	-3 04APS FM 28 3/4"> (2244)(2465) 6643)
3594.00	047 74 4004 04 50 50 50 10 1044989,16 14266232,42		80°59'1.8240"W 986.04	Ĺ	3.06	304	-1 03
3688.00	94/./4 -10/21.01 -58.54 1644988.80 14266195.75		80°59'1.8287"W 1022.69	L	5.41	5 18	4 05
3782 00	300.70 -1002.9/ -00./3 1644986.61 14266153.81	39°17'10.4350"N 80°5	80°59'1.8567"W 1064 71		210	0000	1.00
3877 00	-64.45 1644982.88 14266111.15		L		1 78	1 10	2.00
2071.00	1004.43 -114/.8/ -69.15 1644978.19 14266068.94	39°17'9.5958"N 80°5!	L		0.00	100	0.57
39/ 1.00	-1189.41 -74.71 1644972.63 14266027.41	-			1 77	0.01	-0.07
4460.00	1139.20 -1230.84 -80.86 1644966.49 14265986.01	-			17.0	0.10	2.81
4159.00	-85.52 1644961.82 14265945 69	-			nc.u	0.12	-1.09
4253.00	-90.98 1644956.37 14265909 41	-			2.31	-1.94	-2.94
4348.00	14265876 DR	_			4.64	-3.53	7.72
4442.00	14765843 60	-			0.69	-0.67	-0.35
4536.00		-		4	1.29	-0.43	-3.48
4630.00		-8			0.86	0.07	-2.46
4724.00		-			1.53	-0.86	-3.71
4819.00	1644028 54 14265712 05	_			1.60	0.82	4.01
4912.00		_		184.520	1.34	0.93	2.74
5007.00	16/10/10 00 11/200001.01	-			1.19	-0.57	-2.92
5103.00	1644044 75 4400060 04	-		184.676	2.16	1.84	3.05
5197.00	1044911./0 14205009.61	-	80°59'2.8103"W 1613.09	184.823	1.62	1.17	2.86
5292.00	1543 11 1680 12 142 01 1644904.85 142655/3.19	-	80°59'2.8981"W 1649.98	184.955	1.54	-0.71	-3.46
5386.00	174E 27 450 40 4044039.87 14262536.89	_	80°59'2.9603"W 1686.59	185.014	1.25	-0.45	-3.01
5480.00	-1740 58 150 75 154489/.25 14265501.67		80°59'2.9950"W 1721.93	185.002	1.68	-0.82	-3.90
5575.00	151 68 151 805 50 1 1057 10 10 10 10 10 10 10 10 10 10 10 10 10			184.925	1.40	-0.76	-3.22
	14702437.40 1044030.03 14702437.40	39°17'3.3021"N 80°59	80°59'3.0150"W 1791.10	184.858	2.10	1.46	4 06
						E.	April 1

RECEIVED Office Of Oil and Gas

APR 3 0 2024



REFERENCE WELLPATH IDENTIFICATION

### Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264





ANTERO RESOURD Ritchie Jackson Pad Slot F Slot F Slot F Slot F 24.500 [188.3405316.82] [10 22.240 [183.3095490.20] [17 22.240 [183.3095490.20] [17 23.550 [15 20.779 [15 27.700 [15 20.779 [15 27.700 [15 20.779 [15 20.779 [15 20.779 [15 20.779 [15 20.779 [15 20.2005315.57 20 [15 20.2005315.57 20 [15 20.2005315.57 20 [15 20 [15 20 [25 20 [	ANTERO F       ANTERO F       Jackson P       Jackson P       Jackson P       Jackson P       Stot F       ATH DATA (1       Inclination Azimuth       Inclination Azimuth       Inclination Azimuth       Part DATA (17.300)       23.530 185.380       22.24.500 188.340       23.530 185.320       23.530 185.330       23.530 185.330       23.530 185.330       22.24.500       17.720 176.300       23.530 185.330       23.530 185.330       23.530 185.330       23.530 185.330       23.540 165.7320       36.580 167.400       36.580 167.400       36.560 177.2030       36.560 167.730       36.560 167.730       36.551 165.0630       89.351 166.700       89.355 166.0306       89.350 160.3206       89.350 160.3206       89.350 160.3206       89.350 160.29006       89.360 160.29006       89.360 160.29006       89.360 160.29006	ANTERO RESOURCES CORPORATION Well Hazelbaker Init 1H	API	Mallburg				WELLPATH DATA (147 stations) † = interpolated, ± = extrapolated station	TVD Vert Sect North East 1 Grid East 1 Grid North 1 1 111	Und Not In Latitude Longitude Closure DistClosure Dir DLS Build Rate	25 39°17'2 9348"N 80°50'3 0644"M 40'9 461 40'50 201 2'100ft 7'40	39°17'2 5555"N 80°50'3 1235"N 1020.40 104.080 3.07 2.24	46 30°17"2 1052"N 00 353.1233 W 1001.09 184.922 1.63	30°17 2.1333 N 80°5013 4505"W 1903.64 184.909 1.67 -1.37	20 30°17'1 E402''N 20 333,1030 W 1937.63 184.849 2.24 -1.83	E4 2001714 477411 20020 120201 12020 W 1909.69 184.745	64 268476 2006.08	04 39 1/ U.8623 N 80°593.0945 W 2037.65 184.444 4.14 4.14	U9 39"17"0.4711"N 80"59"3.0352"W 2076.76 184.231 7.46 7.35	90 39°16'59.9748"N 80°59'2.9169"W 2126.18 183.881 8.83 8.44	51 39°16'59.7732"N 80°59'2.8575"W 2146.23 183.720 8.41 8.32	93 39°16'59.3819"N 80°59'2.7342"W 2185.14 183.398 8.41 8.33	39°16'58.8725"N 80°59'2.5677"W 2235.86 182.985 8.73 8.73	69 39"16'58.7071"N 80°59'2.5136"W 2252.36 182.855 8.73 8.73	06 39°16'57.9493"N 80°59'2.2750"W 2328.10 182.299 9.60 9.56	2 39°16'57.1421"N 80°59'2.0136"W 2409.00 181.732 7.24 7.06	2220-17 2400-03 1/2-34 1420480/-03 39 1657.1244"N 80°592.0075"W 2410.78 181.720 7.24 7.07	-013 0444500 041426444342 039165648951N 80°501.7692°W 2474.50 181.241 6.87 5.96	-38 47 1642608 86 14264725 47 59 10 50.2823 N 80°591 6829"W 2495.32 181.075 6.87 5.99 -3.51	-16.06 1445031 25 14264634 06 20040500 N 807597 15/69W 2519.90 180.875 8:24	0 30°16'54 F481"N 00 39 1.2921 W 2582.48 180.356 8.24 7.99	30°16'53 666/"N 90'39'0.0022 W 26/U.38 1/9.653 8.25 8.24	80.47 1645127 75 14264360 45 100 100 200 20 0,400 W 2/293 96 1/8,986 0.32	30°16/51 0006/11 00° 39'0.0651'W 2849.18 178.381 1.30	29 10 21.3U30 N 80"58'59.6899"W 2939.33	171 24 1645319 48 14354164 FF 2551215 1551.0198"N 80"58"59.3045"W 3030.54	39 10 30.1425 N 80°58'58.9114"W 3120.75 176.855	39 16 49.2633 N 80°58'58.5249"W 3211.33 176.400 0.31 0.11	39*16 48.3761"N 80°58'58.1295"W 3302.96 175.959 1.07 -1.04	00 000/154 2000242 2 000 1 2 0000423 33 104/.4931 N 60 383/.4352 W 3393 74 175 542 1 0 80 0 0 0
--	--	--	-----	----------	--	--	--	---	---	--	--	---	--	--	---	--	-------------------	---	--	---	---	---	--	---	---	--	---	---	---	---	--	--	---	---	---	---	---	---	--	---

RECEIVED Office Of Oil and Gas

APR 30 2024



REFERENCE WELLPATH IDENTIFICATION

#### **Actual Wellpath Report** Hazelbaker Unit 1H AWP Proj: 13264' Page 5 of 9



Operator	ANTER	O PESOI		ANTERO PECOLIDCES COBPORATION	MON											
Choi aid		O VESO		UKPORAL	NO			Well	Hazelb	Hazelbaker Unit 1H						
rieia	KITCHIE							API	47-085-	47-085-10483-0000						T
Facility	Jackson Pad	n Pad						Wellbore	Ι	Hazelbaker I hit 411 AMD						
Slot	Slot F								Τ							
WELLPATH DATA (147 stations)	TH DATA	1 (147 s	tations)													
MD	Inclination	Azimuth	TVD	Vert Sect	North	Fact	Grid Eact	Crief Marth								
[#]	[]		E	EF.	EU.	E	[US ft]	[US ft]	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	0	Comments
00.000	88.800	- 1	1	3477.11	-3562.08	325.58	1645372.76	14263655.70	39°16'45.7338"N	N 80°58'56 9499"W	3576 03	17/ 770		11001/21	["/100ft]	
0148.00	88.460		- 1	3572.08	-3651.69	357.04	1645404.21	14263566.13	39°16'44.8480"N	L	3660 10	474 446	70.0	07.1-	-0.99	
8242.00	88.890	1	6323.93	3666.05	-3740.45	387.91	1645435.07	14263477.41	39°16'43 9707"N		01000 E4	14.410	20.0	-0.36	0.59	
8336.00	89.140	1	6325.54	3760.03	-3829.03	419.33	1645466.47	14263388.86	39°16'43.0951"N		10.0010	1/4.0/8	10.0	0.46	-0.22	
8431.00	89.480		6326.69	3855.02	-3918.83	450.28	1645497.41	14263299 09	30°16'47 207A"N		2011.02	00/.0/1	RC.U	0.27	-0.53	
8526.00	88.000	159.990	6328.78	3949.99	-4008.56	481.40	1645528 52	14263209 40	14-102:2F01 00		3344.62	1/3.445	1.65	0.36	1.61	
8620.00	89.320	158.540	6330.97	4043.90	-4096.44	514 67	1645561 78	14763474 66	1041404140		4037.36	173.152	2.42	-1.56	-1.85	
8715.00	89.420	161.520	6332 02	4138 BG	4185 72	547 44	10100010101	000000017	N.61040.401.60		4128.65	172.839	2.09	1.40	-1.54	
8809.00	92,680		_	4737 BA	A77A70	11.140	1040004120	14203032.32	39°16'39.5695"N		4221.32	172.553	3.14	0.11	3.14	
8904.00	AR 020		100	10.707	4764 50	00.110	04.4202401	14262943.37	39°16'38.6899"N		4313.51	172.308	3.52	347	-0.50	Γ
00 8008	000 00		18:0700	10.1204	-4304.00	9/./09	1645654.83	14262853.44	39°16'37.8007"N	N 80°58'53.3635"W	4406.77	172 073	4 02	3 06	0.70	
	00.220		0001.32	4421.78	-4453.48	638.45	1645685.50	14262764.66	39°16'36.9228"N		4499.01	171 842	168	02.0- V 7 0	0.14	
0102.000			0032.24	4010.00	-4542.40	668.88	1645715.92	14262675.78	39°16'36.0439"N	N 80°58'52.5868"W	4591.38	171 623	3 10	04 0	10.1-	T
00 1000	30.220		70.1000	4010./5	-4632.17	699.92	1645746.95	14262586.04	39°16'35.1565"N	N 80°58'52.1922"W	4684.76	171 408	200	0.45	00	T
9201.00	91.450	- 11	6330.15	4704.73	-4720.81	731.17	1645778.19	14262497.43	39°16'34.2803"N		4777 10	171 106	14:3	-0.40	-2.22	
00.0700	90.740	2.1	6328.36	4798.71	-4810.05	760.67	1645807.67	14262408.24	39°16'33.3983"N		4869.82	171 014	4 47	-0-0	10.1	
9410.00	89.780	- 1	6327.92	4893.70	-4899.87	791.59	1645838.58	14262318.45	39°16'32.5105"N		4063 30	170 021	1	-0.10	0.89	
9564.00	91.450	- 1	6326.92	4987.68	-4988.60	822.58	1645869.56	14262229.76	39°16'31.6334"N		ENER OR	170.020	10.7	10.1-	-2.3/	
9658.00	88.950	- 1	6326.59	5081.63	-5076.76	855.12	1645902.08	14262141.63	39°16'30.7620"N		51AB 27	10071	00.7	8/.1	1.84	
9/53.00	91.880	159.830	6325.90	_	-5165.35	889.38	1645936.33	14262053.08	39°16'29 8863"N		140.61	10.400	4./0	99.7-	-3.97	
9847.00	91.450		6323.17		-5253.77	921.16	1645968.10	14261964.69	39°16'29 0123"N		100.1420	170.055	3./0	3.08	2.05	
9942.00	89.820	- 1	6322.11	5365.43	-5342.85	954.12	1646001.05	14261875.65	30°16'28 1218"NI		100000	GGU.U/1	18.0	-0.46	0.85	
10036.00	89.600	162.520	6322.59	5459.41	-5431.52	985.28	16460.32 19	14261787 01	20°16'77 7657'NI		5421.38	169.8/5	2.61	-1.72	-1.97	
10130.00	90.090	163.580	6322.84	5553.36	-5521.43	1012 68	1646050 58	14761607 14	1110002-12-01 00	1	91.0200	169./18	4.01	-0.23	4.00	
10225.00	90.030	163.250		5648.29	1	1039 80	1646086 60	11761606 10	10002.07 10 20.000 I		5613.53	169.607	1.24	0.52	1.13	
10319.00	88.800	162 360		18	1	1000.000	10100000	14201000.12	39 10 25 4666 N		5707.99	169.504	0.35	-0.06	-0.35	
10414.00	88 740	161 770	+	4	17.70.10-	00.001	1046114.4/	14261516.37	39°16'24.5791"N		5801.35	169.396	1.62	-1.31	-0.95	
10508.00	01 DBD	163 160	1	17.1000	10.2610-	1090.83	1646143./0	14261426.04	39°16'23.6859"N		5895.56	169.278	0.62	-0.06	0.67	
00,0000	00.100	100.000				1125.15	1646172.01	14261336.46	39°16'22.8000"N	V 80°58'46.7886"W	5988.90	160 171	00 0	01.0	10.0-	
10003.00	080.080	. 1				1153.29	1646200.13	14261245.76	39°16'21.9032"N		6083 31	160.070	02.2 2 7 C	C.43	1.40	
00.100101	0/1.10					1180.81	1646227.64	14261155.93	39°16'21.0149"N		6176 7R	168 070	202	70.7-	-0.82	
101.18101	88.800	162./40	6326.34	6214.02	-6152.82	1208.04	1646254.87	14261066.00	39°16'20.1257"N		6270.20	169 200	20.0	2.14	17.1	I
											27.0170	100.044	1.0.7	-2.46	-0.88	

RECEIVED Office Of Oil and Gag

APR 30 2024

WV Department of Environmental Protection

06/14/2024



# Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264' Page 6 of 9



REFERE	REFERENCE WELLPATH IDENTIFICATION								1
Onorotor	ANTEDO PECUIDATO SOSTANTAN								
	AN END RESOURCES CORPORATION	Well	Hazalhakar Hmit 4U						
Field	Bitchio	1044	LIAZEIDAKEI UIIL IL						-
		API	47-085-10483-0000						-
racility	Jackson Pad	Wallhord	Horalbahan Linit at	ALAR					-
Slot	Slot F	Τ	LIAZEIDAKEL UNIT TH AWB	1 AWB					-
									-
							No. of Concession, Name of		
WELLPA	VELLPATH DATA (147 stations) += interpolated. ± = extranolated station								
UW	Inclination Atimite TVD IV	Allowed and the second s							100
L#J		Latitude	Lonaitude	Closura Diet   Clo	Circo Die L	10 10 10 10 10 10 10 10 10 10 10 10 10 1			-
10886 00				Iffil role in reviewed reviewed reviewed reviewed		PLS Build Ka	te lurn Rate	Comments	-
00.0001	03.000 102./ 50 032/.50 0308.98 -6243.53 1236.22 1646283 n3 14260075 33 3	14"0000 01:31.300	COPPOSITE CALLOND	I	-0	11001/-1 1100	1/10011		
10980.00	00.01000011	N 0877.81 01 8		6364.74	168.800	0.84 0.	0.84 0.01		
11075.00	14200885.53	39°16'18.3411"N		6458.24	168.714	0.70 -0.65	85 0.27		
11169.00	14260794.94	39°16'17.4453"N	80°58'44.6652"W	6552.68	168.626	1 22 -0 Q2			
11763 00	16463/0.24 14260706.33	39°16'16.5691"N	80°58'44.2688"W	6645 75					
	-6600.68 1356.37 1646403.14 14260618.33	39°16'15.6988"N	RIOFR'A3 REAG				1.01 -0.47		
11357.00	н.	14100000 1 1010100	н.		108.388	.26 -0.59	59 1.12		
11452.00	16/6/6/ 66 1/20023-11	9 10 14.0190 N	- 1			2.51 0.79	79 2.38		
11546.00	1646460 26 4 10000 10 001	N 6776'10 13.9229 N	80°58'43.1067"W	6926.41	168.213	1.02 0.22	1.00		
116/1 00	1040409.29 14260348.92	9°16'13.0348"N	39°16'13.0348"N 80°58'42.7556"W	7020.01	168 142	0 0/ 0 0/ 0 0	000		1000
00.14011		The subscription of the su	NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.			and the second s			

	1000	-			-																							
Turn Rate Comments																												0.00 Projected MD at TD: 13264'
urn Rate	[°/100ft]	0.01	0.27	-0.80	-3.47	1.12	2.38	1.00	-0.68	-0.11	-2.65	2.87	-0.17	-2.03	-0.28	-0.31	1.91	0.38	-0.07	1.22	-0.01	-2.91	0.83	-0.44	0.08	0.05	1.32	0.00P
9	[°/100ft]	0.84	-0.65	-0.92	1.61	-0.59	0.79	0.22	-0.65	0.45	-0.68	1.34	-0.55	-0.72	E0.0-	0.99	-0.39	-0.49	0.20	1.57	0.09	-0.63	0.03	-0.88	0.53	-0.60	0.49	0.00
DLS	710011	0.84	0.70	1.22	3.82	1.26	2.51	1.02	0.94	0.46	2.74	3.17	0.57	2.16	0.29	1.04	1.95	0.62	0.22	1.99	0.10	2.98	0.83	0.98	0.53	0.60	1.41	0.00
Josure Dir		168.800	168.714	168.626	168.513	168.388	168.289	168.213	168.142	168.067	167.977	167.891	167.823	167.744	167.653	167.562	167.482	167.416	167.354	167.300	167.253	167.192	167.120	167.053	166.985	166.920	166.867	166.854
CIOSURE DIST CIOSURE DIL		6364.74	6458.24	6552.68	6645.75	6738.60	6831.85	6926.41	7020.01	7114.56	7208.88	7302.24	7396.84	7490.27	7584.51	7677.72	7771.09	7865.66	7959.27	8052.95	8147.70	8241.28	8335.71	8429.20	8523.66	8617.15	8703.78	8728.70
LUIGIAUE	DOCEDIAE ATTOMAT	W_2//2.ch ac na	80°58'45.0257"W	80°58'44.6652"W	80°58'44.2688"W	80°58'43.8506"W	80°58'43.4648"W	80°58'43.1067"W	80°58'42.7556"W	80°58'42.3932"W	80°58'42.0047"W	80°58'41.6220"W	80°58'41.2606"W	80°58'40.8826"W	80°58'40.4788"W	80°58'40.0737"W	80°58'39.6836"W	80°58'39.3108"W	80°58'38.9448"W	80°58'38.5896"W	80°58'38.2422"W	80°58'37.8710"W	80°58'37.4764"W	80°58'37.0897"W	80°58'36.6955"W	80°58'36.3068"W	80°58'35.9580"W	W"8098.35.8608
	30°16'10 2200"NI	N 02779 19.5790 V	02 10 10.3411 N	39°16'17.4453"N	39°16'16.5691"N	39°16'15.6988"N	39"16"14.8196"N	39 16 13.9229 N	39 16 13.0348"N	39°16'12.1391"N	N.7007-1101 60	N 10/2/01 01 62	39°16'9.4742"N	39°16'8.5929"N	39°16'7.7080"N	39"16'6.8339"N	39"16'5.9558"N	$\downarrow$	4	-	+	+	+	+	-	-	39-15-150,1601-N	
[US ft]	14260975 33	14760885 52	20.0000041	14250/94.94	14200/00.33	14200018.33	14260529.41	14200430./3	14200346.92	14200258.34	14760070 44	1420000 0.44	142039388.84	14259899.72	14259810.23	14259/21.84	14203033.04	14208042.12	14203403.20	14203000.00	14760407 27	14209103.3/	14250004 70	14203004.10	14200914.98	-	+	
[US ft]	1646283 03	1646310 70	10100100101	1646339.00	10403/0.24	1040403.14	16464535.49	16/6/6/00 20	1646647 00	1646548 36	1646578 47	16/20/20101	1646676.64	1040020.04	1040008.41	1640/00.20	16/6760 20	16/6700 10	1646817.04	PO. 1100-01	16/6873 50	1646004 63	1646035 06	1646066 07	1646006 6E	164703410	164703174	11100100
[#]	1236.22	1263.90	1202 27	1272 46	1356 37	120001	1414 00	1447 56	1471 00	1501 66	1531 78	1560 22	50002	203.31 834 7E	1021.13		_	1742 40	_	100		_	+	+	10			
[H]	-6243.53		_	-651263		6779 78 _6680 63 1390.31	-6780.35		-GGED 81	7050.74			160.590 6336 31 7441 61 -7310 58 1580 07	7400 10 1801 1801 7E	7407 52		-7676 71					_			-8393 59 1950 13	-8476 14 1	-8499.94 1	
	6308.98	6402.93	6497 87	659183	6685 79	6779 78	6874 74		7063 67		7252.65 -7139.78	7347 62	744161	7536 60	90.220 160.030 6337 86 7630 58 -7497 52	7724 58	7819.56 -		8007.51 -								8686.39 -8	
	6327.56							3334.81		3336.00	3336.18	335.75	336.31	337 46	337.86	337.81	338.44					334.66	334.39			334.58	334.53 8	
	162.750 6327.56	163.000 6328.62	162.240	158.980 6332.67	89.140 160.030 6333.63	89.880 162.270 6334.43	90.090 163.220 6334.46	162.580 6334.81	89.910 162.480 6335.31	59.960	62.660	162.500 6335.75	60.590	60.320	60.030	61.830 6	162.190 6338.44	162.120 6339.31	63.270 6	163.260 6336.98	160.520 6335.60	161.310 6334.66	160.900 6334.39	60.980 6	61.030 6	52.180 6	52.180 6	
	89.660	89.050	88.180	89.690	89.140	89.880	90.090	89.480 1	89.910	89.260	90.520 162.660 6336.18	90.000 1	89.320 1		90.220 1	89.850 1	89.380 1	89.570 1	91.050 163.270 6338.80	91.140 1	90.550 1	90.580 1	89.750 1	90.250 160.980 6334.39	89.690 161.030 6334.44	90.120 162.180 6334.58 8661.39	90.120 162.180 6334.53	
10000	10886.00	10980.00	11075.00	11169.00	11263.00	11357.00	11452.00	11546.00	11641.00	11736.00	11830.00	11925.00	12019.00	12114.00	12208.00	12302.00	12397.00	12491.00	12585.00	12680.00	12774.00	12869.00	12963.00	13058.00	13152.00	13239.00	13264.00	

RECEIVED Office Of Oil and Gag

APR 30 2024



# Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264' Page 7 of 9



Anteron Actual Wellpath Report   Hazelbaker Unit 1H AWP Proj: 13264   Page 7 of 9   CE WELLPATH IDENTIFICATION   ANTERO RESOURCES CORPORATION   Ritchie   Jackson Pad   Slot F	Baker 🚫 Huchee				
	I Wellpath Report ter Unit 1H AWP Proj: 13264' Page 7 of 9				
LEFEREN perator eld ot		REFERENCE WELLPATH IDENTIFICATION	Jackson Pad	Slot F	

HOLE & CASING SECTIONS - Ref Wellbore: Hazelbaker Unit 1H AWR	ilbore: Hazelbak	er Unit 1H AWR	Rof Wallacth. U	and the state of the state					
String/Diameter	Chord MID		unpdulan iou	wer wentpartit: nazelbaker Unit 1H AWP Proj: 13264'	1 AWP Proj: 132	64'			
	STAIL MU	End MD	Interval	Start TVD	End TVD	041-4			
201-0-10	ŢŢ.	[¥]	[ft]	Lift]		Start N/S	Start E/W	End N/S	End E/W
ZUIN CONDUCTOR	30.00	120.00	0000	1	6.1	E I	[11]	[tt]	C#1
17 Ein Onon Uolo	2000	00.001	00.001	30.00	130.00	000			5.1
	130.00	370.00	00.010		00.001	0.00	0.00	0.07	0 13
13 275in Pacing Curtage		019.00	249.00	130.00	378 99	0.07	0		2.5
19-91 JUIL CASHIG SUITACE	30.00	350 00	00000		0000	10.0	0.13	-0.93	0 07
12 25in Onen Hole		00.000	329.00	30,00	359 00	000	0000		10.0
	379.00	3378 00	00000	00 010		0.0	0.00	-0.61	0 84
9.625in Casing Intermediate		0010100	00.6662	3/8.99	3205.52	-0 03	200		10:0
	30.00	3354 00	00 1025	00.00		00.0-	18.0	-944.98	-58.78
8.75in Open Hole	00 0100	201	00.4200	30.00	3182.68	000		01 100	
	33/8.00	6125.00	7747 00	2200		2010	00.0	931.58-	-58.69
8.5in Open Hole	6125 00		00.1413	70.0020	5/41.11	-944.98	-58 78	1087 67	11 101
	00.0210	13264.00	7139.001	5741 11	C3 1 C3		2 100	10.1001-	-101.44
o.bin Casing Production	30.00	00 11001		11.1410	00.4000	-1987.67	-161.44	-8400 04	1001
	00.00	13244.00	13214.00	30.00	6334 57	000		10.0010	1300.23
					10-1000	0.00	00.0	-8480.90	1979.11

RECEIVED Office Of Oil and Gas

WV Department of Environmental Protection

APR 30 2024

06/14/2024



# Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264' Page 8 of 9





	Hazelbaker Unit 1H	47-085-10483-0000	re Hazelbaker Unit 1H AWB	
	Well	API	Wellbore	_
Derator ANTERO RESOLIDES CORPORATION	Ritchia	Jackson Pad	Slot F	
Operator	Field	Facility	Slot	

TARGETS								
Name	CI/H							
		Ifti	East	Grid East	Grid North	Latitude	Longitude	Shane
Hazelhaker   Init 11 BOE Bourd	6285 00	79 2722	E0 70	ii oni	[ns II]		)	oliabo
Internated Office In FOE Rev-1		10.011-2-	n/.ne-	1644996.63	14264743.47	39°16'56.4900"N	80°59'1.7324"W	noint
	100 0100							
Hazelbaker Unit 1H BHL Rev-1	6310.00	-8968.55	2159.22	1647205.66	14758751 44			
					14-1020024-1	38-15 52.2934"N	80°58'33.6503"W	point
Headle to the second of the	6310 00	064170						
Hazelbaker Unit 1H BHL Rev-2	00.0100	97.4109-	2004.81	1647051.31	14258705.01	30°15'56 7790"NI	Limete Person	
						N 6011000100	80°58'35.6120"W	point
Hazalbabas I hits 411 1 D Dave 4	6310.00	JAE1 AE	020					
	00000	04-1007-	3.14	1645057.03	14264565.96	39°16'54.7347"NI	BO°ED'D DEA AWAI	
							VV ++02.0 20 00	point
Hazelbaker Unit 1H 50' L/R Hard Line R.2	6750.00	-5494.32	977.05	1646023 07	1106170101			
	2D Rectangle 6381.02 x 100	11.02 × 100		10:0300101	14201124.24	39°16'26.6347"N	80°58'48.6706"W	rectangle
WELLPATH COMPOSITION - Ref Wellhows Herelf - Hard All All All All All All All All All Al	In the second se	TA AUT ALLOW						

		SURVEV Date		7/15/2023	7/15/2023	7/15/2023	7/15/2023
		Wellbore		Hazelbaker Unit 1H AWB	Hazelbaker Unit 1H AWB	Hazelbaker Unit 1H AWB	Hazelbaker Unit 1H AWB
	Ret wellpath: Hazelbaker Unit 1H AWP Proj: 13264'	Log Name/Comment	01 Gvrodata MS Gvro <17-1/2"> /100' 264"	02 APS FM <12_114"> (704 -11-112 / (100 -204 )	03 APS EM <8-3/4"> (204 /(30/ -3311)	04 BH AT Curve+Axial <8-1/2"> (6047"/6464" 12220"	
WELLPATH COMPOSITION - Ref Weilbore: Hazelhaker IInit 41 Aup		[11]	30.00 264.00 Gyrodata 2015 - GC+WIR+DPIPE		3311.00 6047.00 BH NaviTrak (2019) (Axial Corr+HRGM)	0041.001 13204.001 BH Auto I rak Curve/eXpress (2019) (Axial Corr+HRGM)	

RECEIVED Office Of Oil and Gas

APR 30 2024



### Actual Wellpath Report Hazelbaker Unit 1H AWP Proj: 13264<sup>•</sup> Page 9 of 9





T T T

	Hazelbaker Unit 1H	47-085-10483-0000	Hazelbaker Unit 1H AWB	
	Well	API	Wellbore	
REFERENCE WELLPATH IDENTIFICATION	ANTERO RESOURCES CORPORATION	Jackson Bad	Slot F	
	Field	Facility	Slot	

 
 Wellpath general comments

 API: 47-085-10483-0000

 BH Job #: 111872740

 Rig: H&P 519

 Duration: 7/16/2023-7/21/2023

 Gyrodata MS Gyro <17-1/2"> (100'-264')

 APS EM <12-1/4"> (3311')

 APS EM <12-1/4"> (3311')

 APS EM <12-1/4"> (3311')

 APS EM <12-1/4"> (364')(507-3311')

 APS EM <12-1/4"> (364')(5164'-13239')

 Sycamore: 6482' MD

 Middlesev: 6615' MD

 Burkett: 6824' MD

 Tully: 6897' MD

 Marcellus POE: 6947' MD

 Marcellus POE: 6847' MD

 Projected MD at TD: 13264'
 COMMENTS

RECEIVED Office Of Oil and Gas

APR 30 2024