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Office of Oil and Gas
JUL 22 2026
WV Department of
Environmental Protection

Actual Wellpath Report

Van Wie 1221 N-3H awp Proj: 30227'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999610	Report Generated	5/13/2025 at 12:48:56 PM
Convergence at slot	0.21° 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	19.69	22.64	1734496.23	14197346.51	39°05'41.6309"N	80°40'6.2381"W
Facility Reference Pt			1734473.60	14197326.83	39°05'41.4371"N	80°40'6.5262"W
Field Reference Pt			1628437.04	12695896.25	34°58'12.0000"N	81°02'24.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 611 (RKB) to Facility Vertical Datum	1276.77ft
Horizontal Reference Pt	Slot	H&P 611 (RKB) to Mean Sea Level	1276.77ft
Vertical Reference Pt	H&P 611 (RKB)	H&P 611 (RKB) to Mud Line at Slot (3H)	25.00ft
MD Reference Pt	H&P 611 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.57°



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WELLPATH DATA (350 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]
0.00†	0.000	109.390	0.00	0.00	0.00	0.00	1734496.23	14197346.51	39°05'41.6309"N	80°40'6.2381"W	0.00	0.000	0.00
25.00	0.000	109.390	25.00	0.00	0.00	0.00	1734496.23	14197346.51	39°05'41.6309"N	80°40'6.2381"W	0.00	0.000	0.00
100.00	0.210	109.390	100.00	-0.09	-0.05	0.13	1734496.36	14197346.46	39°05'41.6304"N	80°40'6.2365"W	0.14	109.390	0.28
125.00	0.080	102.510	125.00	-0.12	-0.06	0.19	1734496.42	14197346.45	39°05'41.6302"N	80°40'6.2357"W	0.20	108.793	0.52
150.00	0.080	123.500	150.00	-0.15	-0.08	0.22	1734496.45	14197346.43	39°05'41.6301"N	80°40'6.2353"W	0.23	109.408	0.12
175.00	0.100	93.550	175.00	-0.17	-0.09	0.26	1734496.49	14197346.42	39°05'41.6300"N	80°40'6.2349"W	0.27	109.048	0.20
200.00	0.090	65.080	200.00	-0.18	-0.08	0.30	1734496.53	14197346.43	39°05'41.6301"N	80°40'6.2344"W	0.31	105.432	0.19
225.00	0.070	116.090	225.00	-0.19	-0.08	0.33	1734496.56	14197346.43	39°05'41.6301"N	80°40'6.2340"W	0.34	103.758	0.28
250.00	0.060	122.070	250.00	-0.21	-0.09	0.35	1734496.58	14197346.42	39°05'41.6299"N	80°40'6.2337"W	0.37	104.913	0.05
275.00	0.090	29.410	275.00	-0.20	-0.08	0.37	1734496.60	14197346.43	39°05'41.6300"N	80°40'6.2334"W	0.38	102.651	0.44
300.00	0.140	75.370	300.00	-0.19	-0.06	0.41	1734496.64	14197346.45	39°05'41.6303"N	80°40'6.2329"W	0.42	98.149	0.40
325.00	0.220	59.280	325.00	-0.19	-0.03	0.48	1734496.71	14197346.48	39°05'41.6306"N	80°40'6.2320"W	0.49	93.190	0.38
350.00	0.240	68.760	350.00	-0.18	0.02	0.57	1734496.80	14197346.53	39°05'41.6310"N	80°40'6.2308"W	0.57	88.356	0.17
375.00	0.250	75.520	375.00	-0.18	0.05	0.68	1734496.91	14197346.56	39°05'41.6313"N	80°40'6.2296"W	0.68	85.847	0.12
400.00	0.220	75.250	400.00	-0.19	0.07	0.78	1734497.01	14197346.58	39°05'41.6316"N	80°40'6.2283"W	0.78	84.479	0.12
425.00	0.240	100.710	425.00	-0.22	0.08	0.87	1734497.10	14197346.59	39°05'41.6316"N	80°40'6.2271"W	0.88	84.932	0.41
450.00	0.300	103.960	450.00	-0.28	0.05	0.99	1734497.22	14197346.56	39°05'41.6314"N	80°40'6.2256"W	0.99	86.992	0.25
475.00	0.240	94.230	475.00	-0.34	0.03	1.10	1734497.33	14197346.54	39°05'41.6312"N	80°40'6.2241"W	1.10	88.326	0.30
500.00	0.220	89.270	500.00	-0.37	0.03	1.20	1734497.43	14197346.54	39°05'41.6311"N	80°40'6.2229"W	1.20	88.619	0.11
525.00	0.210	84.400	525.00	-0.40	0.03	1.30	1734497.53	14197346.54	39°05'41.6312"N	80°40'6.2217"W	1.30	88.495	0.08
550.00	0.220	110.150	550.00	-0.44	0.02	1.39	1734497.62	14197346.53	39°05'41.6310"N	80°40'6.2205"W	1.39	89.091	0.39
575.00	0.290	133.540	575.00	-0.53	-0.04	1.48	1734497.71	14197346.47	39°05'41.6304"N	80°40'6.2194"W	1.48	91.475	0.50
600.00	0.290	141.330	600.00	-0.64	-0.13	1.56	1734497.79	14197346.38	39°05'41.6295"N	80°40'6.2183"W	1.57	94.788	0.16
625.00	0.250	142.140	625.00	-0.76	-0.22	1.64	1734497.87	14197346.29	39°05'41.6286"N	80°40'6.2174"W	1.65	97.772	0.16
650.00	0.340	136.010	650.00	-0.87	-0.32	1.72	1734497.95	14197346.19	39°05'41.6277"N	80°40'6.2163"W	1.75	100.521	0.38
675.00	0.360	155.320	675.00	-1.02	-0.44	1.81	1734498.04	14197346.07	39°05'41.6264"N	80°40'6.2152"W	1.86	103.825	0.48
700.00	0.290	150.180	700.00	-1.16	-0.57	1.87	1734498.10	14197345.94	39°05'41.6252"N	80°40'6.2144"W	1.96	106.967	0.30
725.00	0.360	150.280	725.00	-1.30	-0.69	1.94	1734498.17	14197345.82	39°05'41.6239"N	80°40'6.2135"W	2.06	109.669	0.28
750.00	0.360	151.820	749.99	-1.46	-0.83	2.02	1734498.25	14197345.68	39°05'41.6226"N	80°40'6.2126"W	2.18	112.396	0.04
775.00	0.450	165.310	774.99	-1.63	-1.00	2.08	1734498.31	14197345.51	39°05'41.6210"N	80°40'6.2118"W	2.31	115.583	0.52

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Slot	3H		

WELLPATH DATA (350 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]
800.00	0.330	178.160	799.99	-1.80	-1.16	2.11	1734498.34	14197345.35	39°05'41.6193"N	80°40'6.2115"W	2.41	118.890	0.59
825.00	0.290	174.510	824.99	-1.93	-1.30	2.12	1734498.34	14197345.21	39°05'41.6180"N	80°40'6.2114"W	2.48	121.525	0.18
850.00	0.290	184.410	849.99	-2.05	-1.42	2.12	1734498.35	14197345.09	39°05'41.6167"N	80°40'6.2114"W	2.55	123.926	0.20
875.00	0.120	206.890	874.99	-2.12	-1.51	2.10	1734498.33	14197345.00	39°05'41.6159"N	80°40'6.2116"W	2.59	125.721	0.74
900.00	0.160	177.820	899.99	-2.17	-1.57	2.09	1734498.32	14197344.94	39°05'41.6153"N	80°40'6.2117"W	2.61	126.893	0.32
925.00	0.200	207.950	924.99	-2.24	-1.64	2.07	1734498.30	14197344.87	39°05'41.6146"N	80°40'6.2120"W	2.64	128.416	0.40
950.00	0.230	220.600	949.99	-2.29	-1.72	2.02	1734498.25	14197344.79	39°05'41.6138"N	80°40'6.2126"W	2.65	130.428	0.22
975.00	0.220	229.910	974.99	-2.33	-1.79	1.95	1734498.18	14197344.72	39°05'41.6131"N	80°40'6.2135"W	2.64	132.542	0.15
1000.00	0.240	197.850	999.99	-2.39	-1.87	1.89	1734498.12	14197344.64	39°05'41.6123"N	80°40'6.2142"W	2.66	134.592	0.51
1025.00	0.230	189.680	1024.99	-2.48	-1.97	1.87	1734498.10	14197344.54	39°05'41.6114"N	80°40'6.2145"W	2.71	136.448	0.14
1050.00	0.280	192.400	1049.99	-2.57	-2.08	1.85	1734498.08	14197344.43	39°05'41.6103"N	80°40'6.2148"W	2.78	138.320	0.21
1075.00	0.240	179.510	1074.99	-2.67	-2.19	1.84	1734498.07	14197344.32	39°05'41.6092"N	80°40'6.2149"W	2.86	140.004	0.28
1100.00	0.210	162.230	1099.99	-2.77	-2.28	1.85	1734498.08	14197344.23	39°05'41.6082"N	80°40'6.2148"W	2.94	140.991	0.30
1125.00	0.340	147.960	1124.99	-2.89	-2.39	1.90	1734498.13	14197344.12	39°05'41.6072"N	80°40'6.2141"W	3.06	141.470	0.58
1150.00	0.380	119.690	1149.99	-3.02	-2.49	2.02	1734498.24	14197344.02	39°05'41.6061"N	80°40'6.2127"W	3.21	141.071	0.72
1175.00	0.350	123.830	1174.99	-3.15	-2.58	2.15	1734498.38	14197343.93	39°05'41.6053"N	80°40'6.2110"W	3.36	140.169	0.16
1192.00	0.260	140.860	1191.99	-3.23	-2.64	2.22	1734498.45	14197343.87	39°05'41.6047"N	80°40'6.2101"W	3.45	139.934	0.75
1233.00	0.330	112.740	1232.99	-3.39	-2.76	2.39	1734498.61	14197343.76	39°05'41.6036"N	80°40'6.2080"W	3.64	139.109	0.39
1329.00	0.150	169.760	1328.99	-3.70	-2.99	2.66	1734498.89	14197343.53	39°05'41.6013"N	80°40'6.2045"W	4.00	138.268	0.29
1423.00	0.350	127.560	1422.99	-4.06	-3.28	2.91	1734499.14	14197343.23	39°05'41.5983"N	80°40'6.2013"W	4.39	138.411	0.28
1517.00	0.230	143.660	1516.99	-4.49	-3.61	3.25	1734499.48	14197342.90	39°05'41.5951"N	80°40'6.1971"W	4.86	137.977	0.15
1611.00	0.890	188.540	1610.98	-5.31	-4.48	3.26	1734499.48	14197342.03	39°05'41.5865"N	80°40'6.1971"W	5.54	144.012	0.79
1655.00	0.560	166.190	1654.98	-5.83	-5.03	3.26	1734499.48	14197341.48	39°05'41.5811"N	80°40'6.1971"W	5.99	147.082	0.97
1799.00	0.030	297.540	1798.98	-6.50	-5.70	3.39	1734499.62	14197340.82	39°05'41.5745"N	80°40'6.1954"W	6.63	149.234	0.40
1894.00	0.060	276.340	1893.98	-6.46	-5.68	3.32	1734499.55	14197340.83	39°05'41.5746"N	80°40'6.1963"W	6.58	149.694	0.04
1988.00	0.090	238.150	1987.98	-6.45	-5.71	3.21	1734499.44	14197340.80	39°05'41.5743"N	80°40'6.1977"W	6.55	150.685	0.06
2083.00	0.070	285.700	2082.98	-6.44	-5.74	3.09	1734499.32	14197340.78	39°05'41.5741"N	80°40'6.1992"W	6.51	151.701	0.07
2177.00	0.100	305.920	2176.98	-6.34	-5.67	2.97	1734499.20	14197340.84	39°05'41.5747"N	80°40'6.2008"W	6.40	152.390	0.04
2271.00	0.130	274.150	2270.98	-6.23	-5.62	2.79	1734499.02	14197340.90	39°05'41.5753"N	80°40'6.2030"W	6.27	153.553	0.07
2364.00	0.120	164.130	2363.97	-6.28	-5.70	2.72	1734498.94	14197340.81	39°05'41.5744"N	80°40'6.2040"W	6.32	154.539	0.22

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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]
2458.00	0.280	144.780	2457.97	-6.60	-5.98	2.87	1734499.10	14197340.53	39°05'41.5716"N	80°40'6.2020"W	6.64	154.344	0.18
2552.00	0.470	158.460	2551.97	-7.21	-6.53	3.15	1734499.38	14197339.98	39°05'41.5662"N	80°40'6.1985"W	7.25	154.261	0.22
2647.00	0.910	157.670	2646.97	-8.35	-7.59	3.58	1734499.81	14197338.92	39°05'41.5557"N	80°40'6.1931"W	8.39	154.762	0.46
2741.00	1.170	154.790	2740.95	-10.05	-9.15	4.27	1734500.50	14197337.36	39°05'41.5403"N	80°40'6.1844"W	10.10	154.980	0.28
2751.00	1.210	154.190	2750.95	-10.26	-9.34	4.36	1734500.59	14197337.18	39°05'41.5384"N	80°40'6.1833"W	10.30	154.970	0.42
2895.00	1.200	158.730	2894.92	-13.27	-12.11	5.57	1734501.80	14197334.40	39°05'41.5110"N	80°40'6.1681"W	13.33	155.306	0.07
2992.00	2.890	155.980	2991.85	-16.73	-15.29	6.93	1734503.16	14197331.22	39°05'41.4795"N	80°40'6.1509"W	16.79	155.611	1.74
3088.00	4.620	154.720	3087.64	-22.99	-21.00	9.57	1734505.80	14197325.52	39°05'41.4230"N	80°40'6.1177"W	23.08	155.501	1.80
3185.00	5.660	144.430	3184.25	-31.47	-28.42	14.02	1734510.24	14197318.10	39°05'41.3495"N	80°40'6.0616"W	31.69	153.743	1.43
3282.00	7.120	127.990	3280.65	-41.13	-36.01	21.54	1734517.76	14197310.51	39°05'41.2741"N	80°40'5.9666"W	41.96	149.115	2.40
3379.00	7.460	121.390	3376.87	-51.08	-42.99	31.65	1734527.87	14197303.53	39°05'41.2048"N	80°40'5.8386"W	53.39	143.637	0.93
3476.00	7.090	116.990	3473.09	-60.29	-48.99	42.36	1734538.58	14197297.54	39°05'41.1451"N	80°40'5.7031"W	64.77	139.149	0.69
3572.00	7.590	117.370	3568.30	-69.21	-54.59	53.27	1734549.48	14197291.94	39°05'41.0894"N	80°40'5.5650"W	76.28	135.701	0.52
3663.00	9.270	116.190	3658.32	-78.83	-60.59	65.19	1734561.39	14197285.94	39°05'41.0296"N	80°40'5.4141"W	89.00	132.907	1.86
3762.00	11.620	111.490	3755.67	-91.06	-67.77	81.62	1734577.82	14197278.77	39°05'40.9582"N	80°40'5.2060"W	106.09	129.700	2.52
3859.00	11.630	109.580	3850.68	-103.61	-74.62	99.93	1734596.12	14197271.92	39°05'40.8897"N	80°40'4.9742"W	124.71	126.751	0.40
3955.00	11.280	107.310	3944.77	-115.32	-80.66	118.01	1734614.19	14197265.88	39°05'40.8294"N	80°40'4.7451"W	142.94	124.353	0.59
4050.00	10.950	104.140	4037.99	-125.87	-85.63	135.63	1734631.80	14197260.92	39°05'40.7797"N	80°40'4.5219"W	160.39	122.266	0.73
4145.00	11.640	108.000	4131.15	-136.68	-90.79	153.49	1734649.66	14197255.75	39°05'40.7280"N	80°40'4.2955"W	178.33	120.605	1.08
4241.00	12.210	115.050	4225.08	-149.68	-98.08	171.90	1734668.06	14197248.47	39°05'40.6552"N	80°40'4.0624"W	197.91	119.708	1.63
4338.00	11.760	117.300	4319.97	-164.06	-106.96	189.98	1734686.13	14197239.59	39°05'40.5668"N	80°40'3.8335"W	218.02	119.380	0.67
4434.00	11.500	115.260	4414.00	-177.92	-115.53	207.32	1734703.47	14197231.02	39°05'40.4815"N	80°40'3.6139"W	237.34	119.129	0.51
4532.00	10.990	113.120	4510.12	-191.11	-123.37	224.75	1734720.89	14197223.19	39°05'40.4034"N	80°40'3.3932"W	256.38	118.763	0.67
4628.00	12.290	115.540	4604.14	-204.52	-131.37	242.39	1734738.52	14197215.20	39°05'40.3237"N	80°40'3.1699"W	275.70	118.456	1.45
4725.00	12.360	115.990	4698.91	-219.21	-140.37	261.03	1734757.16	14197206.20	39°05'40.2341"N	80°40'2.9338"W	296.38	118.268	0.12
4822.00	11.590	115.620	4793.79	-233.50	-149.13	279.15	1734775.27	14197197.44	39°05'40.1468"N	80°40'2.7044"W	316.49	118.112	0.80
4922.00	11.500	111.760	4891.77	-247.17	-157.17	297.47	1734793.58	14197189.40	39°05'40.0667"N	80°40'2.4725"W	336.43	117.850	0.78
5019.00	11.210	110.710	4986.87	-259.62	-164.09	315.27	1734811.37	14197182.49	39°05'39.9977"N	80°40'2.2470"W	355.41	117.496	0.37
5115.00	11.160	109.620	5081.05	-271.49	-170.51	332.75	1734828.85	14197176.07	39°05'39.9336"N	80°40'2.0256"W	373.89	117.132	0.23
5212.00	11.030	106.830	5176.24	-282.89	-176.35	350.47	1734846.56	14197170.23	39°05'39.8753"N	80°40'1.8011"W	392.33	116.710	0.57



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Actual Wellpath Report

Van Wie 1221 N-3H awp Proj: 30227'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
5308.00	10.760	106.530	5270.51	-293.58	-181.55	367.85	1734863.94	14197165.03	39°05'39.8231"N	80°40'1.5809"W	410.21	116.269	0.29
5402.00	10.280	107.420	5362.93	-303.76	-186.56	384.27	1734880.35	14197160.02	39°05'39.7731"N	80°40'1.3729"W	427.16	115.897	0.54
5503.00	11.200	107.980	5462.16	-315.13	-192.29	402.19	1734898.27	14197154.30	39°05'39.7158"N	80°40'1.1458"W	445.80	115.552	0.92
5599.00	12.010	106.540	5556.19	-326.66	-198.01	420.64	1734916.70	14197148.58	39°05'39.6586"N	80°40'0.9121"W	464.91	115.208	0.90
5694.00	12.150	105.260	5649.09	-338.15	-203.45	439.76	1734935.82	14197143.14	39°05'39.6041"N	80°40'0.6699"W	484.54	114.828	0.32
5790.00	12.830	111.950	5742.82	-350.95	-210.10	459.39	1734955.44	14197136.49	39°05'39.5377"N	80°40'0.4211"W	505.16	114.576	1.66
5886.00	12.900	113.170	5836.41	-365.25	-218.30	479.13	1734975.17	14197128.30	39°05'39.4559"N	80°40'0.1712"W	526.52	114.495	0.29
5986.00	12.630	114.470	5933.94	-380.39	-227.22	499.34	1734995.38	14197119.38	39°05'39.3670"N	80°39'59.9152"W	548.61	114.467	0.39
6080.00	12.870	110.000	6025.63	-394.16	-235.06	518.53	1735014.56	14197111.55	39°05'39.2889"N	80°39'59.6722"W	569.32	114.385	1.08
6197.00	12.280	106.000	6139.82	-409.65	-242.94	542.74	1735038.76	14197103.66	39°05'39.2100"N	80°39'59.3655"W	594.63	114.114	0.90
6293.00	11.890	95.130	6233.71	-419.68	-246.64	562.41	1735058.42	14197099.96	39°05'39.1728"N	80°39'59.1162"W	614.11	113.680	2.40
6390.00	12.470	63.410	6328.63	-422.53	-242.84	581.74	1735077.75	14197103.76	39°05'39.2096"N	80°39'58.8708"W	630.40	112.658	6.84
6487.00	15.110	32.550	6422.95	-413.43	-227.48	597.94	1735093.93	14197119.12	39°05'39.3609"N	80°39'58.6647"W	639.74	110.829	7.94
6584.00	19.810	21.400	6515.48	-393.19	-201.49	610.75	1735106.74	14197145.10	39°05'39.6173"N	80°39'58.5010"W	643.13	108.258	5.93
6681.00	26.390	17.350	6604.66	-363.45	-165.57	623.19	1735119.17	14197181.00	39°05'39.9718"N	80°39'58.3415"W	644.81	104.879	6.97
6778.00	32.150	7.640	6689.29	-323.14	-119.35	633.06	1735129.04	14197227.21	39°05'40.4283"N	80°39'58.2142"W	644.21	100.677	7.68
6875.00	37.990	358.000	6768.70	-271.60	-63.85	635.45	1735131.43	14197282.69	39°05'40.9768"N	80°39'58.1812"W	638.65	95.737	8.28
6971.00	44.830	0.840	6840.67	-211.59	-0.40	634.92	1735130.90	14197346.11	39°05'41.6039"N	80°39'58.1851"W	634.92	90.036	7.39
7068.00	51.640	358.670	6905.24	-143.28	71.90	634.54	1735130.52	14197418.38	39°05'42.3185"N	80°39'58.1865"W	638.60	83.536	7.22
7165.00	58.060	355.010	6961.07	-67.18	151.02	630.07	1735126.05	14197497.47	39°05'43.1007"N	80°39'58.2395"W	647.91	76.521	7.30
7261.00	64.380	353.540	7007.27	14.53	234.69	621.65	1735117.63	14197581.11	39°05'43.9280"N	80°39'58.3424"W	664.47	69.317	6.72
7357.00	71.620	349.580	7043.22	101.84	322.65	608.52	1735104.51	14197669.03	39°05'44.7978"N	80°39'58.5049"W	688.76	62.067	8.45
7453.00	77.020	348.300	7069.16	193.25	413.32	590.78	1735086.78	14197759.67	39°05'45.6947"N	80°39'58.7256"W	721.01	55.023	5.77
7550.00	83.860	347.800	7085.26	288.04	506.84	570.98	1735066.99	14197853.15	39°05'46.6197"N	80°39'58.9724"W	763.48	48.406	7.07
7645.00	85.160	346.620	7094.35	381.96	599.06	550.05	1735046.06	14197945.33	39°05'47.5319"N	80°39'59.2336"W	813.28	42.558	1.84
7741.00	84.980	346.560	7102.60	477.08	692.09	527.86	1735023.89	14198038.33	39°05'48.4523"N	80°39'59.5106"W	870.42	37.333	0.20
7837.00	85.560	346.770	7110.51	572.21	785.19	505.80	1735001.83	14198131.39	39°05'49.3732"N	80°39'59.7862"W	934.00	32.789	0.64
7934.00	89.600	344.200	7114.61	668.74	878.98	481.51	1734977.55	14198225.14	39°05'50.3011"N	80°40'0.0899"W	1002.23	28.714	4.93
8028.00	89.290	343.540	7115.52	762.58	969.27	455.40	1734951.45	14198315.40	39°05'51.1945"N	80°40'0.4169"W	1070.92	25.166	0.78
8124.00	89.170	340.770	7116.81	858.53	1060.64	425.99	1734922.05	14198406.73	39°05'52.0986"N	80°40'0.7857"W	1142.98	21.882	2.89



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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
8220.00	89.200	339.840	7118.17	954.51	1151.01	393.64	1734889.71	14198497.07	39°05'52.9930"N	80°40'1.1919"W	1216.46	18.880	0.97
8317.00	89.260	340.760	7119.48	1051.50	1242.32	360.94	1734857.03	14198588.35	39°05'53.8967"N	80°40'1.6023"W	1293.70	16.201	0.95
8412.00	89.290	341.020	7120.68	1146.49	1332.08	329.84	1734825.94	14198678.07	39°05'54.7850"N	80°40'1.9926"W	1372.31	13.908	0.28
8508.00	89.660	341.180	7121.56	1242.49	1422.90	298.75	1734794.86	14198768.85	39°05'55.6838"N	80°40'2.3828"W	1453.93	11.857	0.42
8605.00	89.230	339.340	7122.50	1339.47	1514.19	265.99	1734762.12	14198860.11	39°05'56.5872"N	80°40'2.7941"W	1537.38	9.963	1.95
8700.00	88.920	340.150	7124.03	1434.45	1603.31	233.10	1734729.24	14198949.19	39°05'57.4692"N	80°40'3.2071"W	1620.16	8.272	0.91
8797.00	90.370	340.090	7124.63	1531.44	1694.52	200.12	1734696.27	14199040.37	39°05'58.3720"N	80°40'3.6212"W	1706.30	6.735	1.50
8893.00	89.380	340.590	7124.84	1627.44	1784.92	167.82	1734663.99	14199130.73	39°05'59.2666"N	80°40'4.0267"W	1792.80	5.371	1.16
8989.00	89.480	340.860	7125.80	1723.44	1875.54	136.14	1734632.31	14199221.31	39°06'0.1634"N	80°40'4.4245"W	1880.47	4.152	0.30
9085.00	90.180	340.650	7126.08	1819.44	1966.17	104.49	1734600.68	14199311.91	39°06'1.0603"N	80°40'4.8216"W	1968.95	3.042	0.76
9181.00	89.850	340.760	7126.06	1915.43	2056.78	72.77	1734568.97	14199402.48	39°06'1.9570"N	80°40'5.2198"W	2058.07	2.026	0.36
9277.00	89.380	340.780	7126.70	2011.43	2147.42	41.15	1734537.37	14199493.09	39°06'2.8541"N	80°40'5.6167"W	2147.81	1.098	0.49
9374.00	89.480	340.590	7127.67	2108.43	2238.96	9.07	1734505.30	14199584.59	39°06'3.7599"N	80°40'6.0194"W	2238.97	0.232	0.22
9470.00	89.420	339.790	7128.59	2204.42	2329.27	-23.46	1734472.78	14199674.87	39°06'4.6538"N	80°40'6.4279"W	2329.39	359.423	0.84
9567.00	89.290	340.420	7129.68	2301.41	2420.47	-56.47	1734439.78	14199766.04	39°06'5.5564"N	80°40'6.8424"W	2421.13	358.664	0.66
9664.00	89.570	338.960	7130.65	2398.39	2511.44	-90.13	1734406.13	14199856.96	39°06'6.4567"N	80°40'7.2652"W	2513.05	357.945	1.53
9761.00	89.690	340.540	7131.27	2495.38	2602.44	-123.70	1734372.57	14199947.93	39°06'7.3573"N	80°40'7.6868"W	2605.38	357.279	1.63
9855.00	90.000	341.500	7131.53	2589.37	2691.32	-154.28	1734342.01	14200036.78	39°06'8.2369"N	80°40'8.0705"W	2695.74	356.719	1.07
9952.00	90.000	341.500	7131.53	2686.36	2783.31	-185.06	1734311.25	14200128.73	39°06'9.1472"N	80°40'8.4567"W	2789.46	356.196	0.00
10049.00	89.720	341.730	7131.76	2783.34	2875.36	-215.65	1734280.67	14200220.74	39°06'10.0581"N	80°40'8.8405"W	2883.44	355.711	0.37
10145.00	89.780	341.590	7132.18	2879.32	2966.48	-245.86	1734250.47	14200311.83	39°06'10.9598"N	80°40'9.2195"W	2976.65	355.262	0.16
10241.00	89.480	340.120	7132.80	2975.32	3057.17	-277.34	1734219.00	14200402.48	39°06'11.8573"N	80°40'9.6147"W	3069.72	354.816	1.56
10337.00	89.380	340.100	7133.76	3071.31	3147.44	-310.00	1734186.35	14200492.71	39°06'12.7507"N	80°40'10.0248"W	3162.67	354.375	0.11
10433.00	90.000	341.010	7134.28	3167.31	3237.96	-341.95	1734154.41	14200583.20	39°06'13.6465"N	80°40'10.4260"W	3255.97	353.971	1.15
10528.00	89.480	340.310	7134.71	3262.30	3327.60	-373.42	1734122.96	14200672.80	39°06'14.5336"N	80°40'10.8210"W	3348.48	353.597	0.92
10625.00	90.060	341.270	7135.10	3359.30	3419.19	-405.33	1734091.06	14200764.36	39°06'15.4401"N	80°40'11.2216"W	3443.14	353.239	1.16
10722.00	89.690	341.550	7135.31	3456.29	3511.13	-436.25	1734060.15	14200856.27	39°06'16.3499"N	80°40'11.6096"W	3538.13	352.917	0.48
10819.00	89.540	341.290	7135.96	3553.28	3603.07	-467.16	1734029.25	14200948.17	39°06'17.2597"N	80°40'11.9974"W	3633.23	352.612	0.31
10916.00	89.450	340.110	7136.82	3650.27	3694.62	-499.22	1733997.21	14201039.68	39°06'18.1657"N	80°40'12.3999"W	3728.19	352.305	1.22
11012.00	90.280	341.870	7137.04	3746.26	3785.38	-530.49	1733965.95	14201130.40	39°06'19.0639"N	80°40'12.7924"W	3822.37	352.022	2.03



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
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WELLPATH DATA (350 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]
11109.00	89.600	341.170	7137.14	3843.25	3877.37	-561.23	1733935.22	14201222.37	39°06'19.9742"N	80°40'13.1782"W	3917.78	351.764	1.01
11206.00	90.740	342.020	7136.86	3940.23	3969.41	-591.86	1733904.60	14201314.36	39°06'20.8850"N	80°40'13.5624"W	4013.29	351.519	1.47
11303.00	89.510	340.760	7136.64	4037.22	4061.33	-622.81	1733873.66	14201406.25	39°06'21.7947"N	80°40'13.9509"W	4108.81	351.282	1.82
11400.00	89.260	340.320	7137.69	4134.21	4152.79	-655.13	1733841.36	14201497.67	39°06'22.6997"N	80°40'14.3566"W	4204.15	351.035	0.52
11497.00	89.540	340.570	7138.70	4231.21	4244.19	-687.59	1733808.91	14201589.03	39°06'23.6043"N	80°40'14.7642"W	4299.52	350.798	0.39
11593.00	89.170	340.530	7139.78	4327.20	4334.70	-719.55	1733776.96	14201679.51	39°06'24.5000"N	80°40'15.1656"W	4394.02	350.575	0.39
11689.00	89.480	341.160	7140.91	4423.19	4425.38	-751.05	1733745.47	14201770.16	39°06'25.3974"N	80°40'15.5610"W	4488.66	350.368	0.73
11785.00	89.850	341.440	7141.47	4519.18	4516.31	-781.83	1733714.71	14201861.05	39°06'26.2973"N	80°40'15.9472"W	4583.48	350.179	0.48
11797.00	89.780	341.340	7141.51	4531.18	4527.68	-785.66	1733710.88	14201872.42	39°06'26.4098"N	80°40'15.9953"W	4595.34	350.156	1.02
11894.00	89.480	340.220	7142.14	4628.18	4619.27	-817.59	1733678.96	14201963.97	39°06'27.3162"N	80°40'16.3962"W	4691.07	349.963	1.20
11990.00	89.880	340.340	7142.68	4724.17	4709.64	-849.98	1733646.58	14202054.31	39°06'28.2105"N	80°40'16.8029"W	4785.73	349.770	0.44
12086.00	89.510	339.420	7143.19	4820.16	4799.78	-883.00	1733613.57	14202144.41	39°06'29.1026"N	80°40'17.2177"W	4880.33	349.576	1.03
12180.00	89.510	338.690	7143.99	4914.13	4887.57	-916.61	1733579.98	14202232.16	39°06'29.9715"N	80°40'17.6400"W	4972.77	349.378	0.78
12276.00	89.540	339.300	7144.79	5010.09	4977.18	-951.02	1733545.59	14202321.74	39°06'30.8585"N	80°40'18.0724"W	5067.23	349.183	0.64
12372.00	89.420	340.370	7145.66	5106.07	5067.29	-984.11	1733512.51	14202411.82	39°06'31.7503"N	80°40'18.4880"W	5161.97	349.010	1.12
12467.00	89.350	339.960	7146.68	5201.07	5156.65	-1016.34	1733480.29	14202501.14	39°06'32.6346"N	80°40'18.8929"W	5255.86	348.850	0.44
12564.00	89.200	338.360	7147.90	5298.02	5247.30	-1050.84	1733445.80	14202591.75	39°06'33.5318"N	80°40'19.3264"W	5351.49	348.676	1.66
12660.00	89.750	340.790	7148.78	5394.00	5337.25	-1084.34	1733412.31	14202681.67	39°06'34.4220"N	80°40'19.7473"W	5446.29	348.516	2.60
12756.00	91.940	342.990	7147.37	5489.95	5428.47	-1114.18	1733382.49	14202772.86	39°06'35.3247"N	80°40'20.1216"W	5541.63	348.401	3.23
12853.00	90.580	341.570	7145.24	5586.88	5520.84	-1143.69	1733352.99	14202865.19	39°06'36.2388"N	80°40'20.4918"W	5638.06	348.296	2.03
12950.00	90.830	344.600	7144.04	5683.77	5613.63	-1171.91	1733324.78	14202957.94	39°06'37.1568"N	80°40'20.8455"W	5734.65	348.208	3.13
13046.00	89.480	339.230	7143.78	5779.70	5704.85	-1201.70	1733295.00	14203049.13	39°06'38.0595"N	80°40'21.2193"W	5830.04	348.105	5.77
13143.00	89.600	338.950	7144.56	5876.67	5795.46	-1236.32	1733260.40	14203139.70	39°06'38.9563"N	80°40'21.6543"W	5925.86	347.958	0.31
13240.00	89.880	340.200	7145.00	5973.65	5886.36	-1270.17	1733226.56	14203230.56	39°06'39.8559"N	80°40'22.0796"W	6021.84	347.823	1.32
13336.00	89.480	337.630	7145.54	6069.60	5975.92	-1304.70	1733192.04	14203320.09	39°06'40.7424"N	80°40'22.5136"W	6116.69	347.684	2.71
13433.00	89.750	337.290	7146.19	6166.46	6065.51	-1341.88	1733154.87	14203409.64	39°06'41.6292"N	80°40'22.9813"W	6212.17	347.525	0.45
13530.00	89.570	339.050	7146.76	6263.36	6155.55	-1377.95	1733118.82	14203499.65	39°06'42.5204"N	80°40'23.4347"W	6307.89	347.382	1.82
13626.00	89.600	339.220	7147.46	6359.33	6245.25	-1412.14	1733084.64	14203589.31	39°06'43.4082"N	80°40'23.8644"W	6402.91	347.259	0.18
13722.00	89.690	339.920	7148.05	6455.31	6335.21	-1445.65	1733051.15	14203679.24	39°06'44.2985"N	80°40'24.2854"W	6498.06	347.146	0.74
13818.00	89.750	340.090	7148.52	6551.31	6425.42	-1478.48	1733018.33	14203769.42	39°06'45.1913"N	80°40'24.6978"W	6593.33	347.042	0.19

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Actual Wellpath Report

Van Wie 1221 N-3H awp Proj: 30227'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
13914.00	89.970	341.200	7148.76	6647.31	6516.00	-1510.29	1732986.53	14203859.95	39°06'46.0877"N	80°40'25.0973"W	6688.74	346.950	1.18
14011.00	89.910	341.590	7148.86	6744.30	6607.93	-1541.24	1732955.60	14203951.85	39°06'46.9974"N	80°40'25.4857"W	6785.29	346.871	0.41
14107.00	89.880	340.090	7149.04	6840.29	6698.61	-1572.75	1732924.10	14204042.49	39°06'47.8948"N	80°40'25.8813"W	6880.76	346.787	1.56
14204.00	89.970	340.270	7149.16	6937.29	6789.86	-1605.63	1732891.22	14204133.71	39°06'48.7979"N	80°40'26.2944"W	6977.12	346.695	0.21
14300.00	90.180	341.450	7149.04	7033.29	6880.55	-1637.11	1732859.76	14204224.37	39°06'49.6953"N	80°40'26.6896"W	7072.63	346.616	1.25
14397.00	88.400	340.350	7150.24	7130.27	6972.20	-1668.85	1732828.04	14204315.98	39°06'50.6023"N	80°40'27.0881"W	7169.14	346.539	2.16
14494.00	88.830	339.180	7152.58	7227.23	7063.18	-1702.39	1732794.51	14204406.93	39°06'51.5028"N	80°40'27.5095"W	7265.44	346.449	1.28
14590.00	90.120	340.110	7153.46	7323.21	7153.18	-1735.78	1732761.14	14204496.89	39°06'52.3935"N	80°40'27.9290"W	7360.77	346.360	1.66
14687.00	90.400	339.810	7153.02	7420.21	7244.31	-1769.01	1732727.91	14204587.98	39°06'53.2953"N	80°40'28.3466"W	7457.17	346.277	0.42
14784.00	89.600	338.230	7153.02	7517.17	7334.87	-1803.74	1732693.19	14204678.51	39°06'54.1917"N	80°40'28.7831"W	7553.40	346.184	1.83
14881.00	89.450	337.400	7153.83	7614.05	7424.69	-1840.37	1732656.58	14204768.29	39°06'55.0807"N	80°40'29.2436"W	7649.38	346.079	0.87
14978.00	91.170	340.360	7153.30	7710.99	7515.16	-1875.31	1732621.65	14204858.72	39°06'55.9761"N	80°40'29.6829"W	7745.61	345.989	3.53
15074.00	90.120	339.900	7152.22	7806.98	7605.44	-1907.94	1732589.04	14204948.97	39°06'56.8695"N	80°40'30.0928"W	7841.10	345.917	1.19
15169.00	90.120	339.790	7152.02	7901.97	7694.62	-1940.67	1732556.32	14205038.11	39°06'57.7522"N	80°40'30.5040"W	7935.58	345.845	0.12
15266.00	90.000	340.040	7151.92	7998.97	7785.72	-1973.99	1732523.02	14205129.18	39°06'58.6537"N	80°40'30.9225"W	8032.06	345.773	0.29
15362.00	90.370	340.510	7151.61	8094.97	7876.09	-2006.39	1732490.63	14205219.51	39°06'59.5481"N	80°40'31.3295"W	8127.63	345.708	0.62
15459.00	89.720	340.100	7151.54	8191.96	7967.41	-2039.08	1732457.95	14205310.80	39°07'0.4518"N	80°40'31.7401"W	8224.20	345.645	0.79
15555.00	88.980	338.320	7152.62	8287.93	8057.15	-2073.15	1732423.90	14205400.50	39°07'1.3400"N	80°40'32.1683"W	8319.59	345.571	2.01
15650.00	90.280	340.360	7153.24	8382.90	8146.03	-2106.66	1732390.39	14205489.35	39°07'2.2197"N	80°40'32.5895"W	8414.03	345.500	2.55
15747.00	90.000	340.230	7153.00	8479.89	8237.35	-2139.37	1732357.70	14205580.63	39°07'3.1234"N	80°40'33.0003"W	8510.63	345.441	0.32
15843.00	89.910	340.040	7153.08	8575.89	8327.64	-2171.99	1732325.09	14205670.89	39°07'4.0169"N	80°40'33.4101"W	8606.22	345.382	0.22
15939.00	89.940	339.300	7153.20	8671.88	8417.66	-2205.34	1732291.75	14205760.87	39°07'4.9078"N	80°40'33.8292"W	8701.75	345.319	0.77
16036.00	89.380	339.150	7153.78	8768.85	8508.35	-2239.75	1732257.36	14205851.53	39°07'5.8054"N	80°40'34.2617"W	8798.21	345.252	0.60
16133.00	90.340	340.300	7154.01	8865.84	8599.34	-2273.36	1732223.76	14205942.48	39°07'6.7059"N	80°40'34.6840"W	8894.76	345.192	1.54
16230.00	89.850	338.650	7153.85	8962.81	8690.18	-2307.37	1732189.77	14206033.28	39°07'7.6049"N	80°40'35.1114"W	8991.28	345.130	1.77
16327.00	90.430	339.570	7153.62	9059.78	8780.80	-2341.95	1732155.19	14206123.87	39°07'8.5018"N	80°40'35.5462"W	9087.75	345.066	1.12
16424.00	91.510	343.220	7151.97	9156.74	8872.70	-2372.89	1732124.27	14206215.73	39°07'9.4113"N	80°40'35.9345"W	9184.52	345.027	3.92
16519.00	90.340	342.000	7150.44	9251.66	8963.34	-2401.28	1732095.89	14206306.34	39°07'10.3081"N	80°40'36.2906"W	9279.42	345.003	1.78
16616.00	90.090	341.900	7150.08	9348.63	9055.57	-2431.33	1732065.85	14206398.53	39°07'11.2207"N	80°40'36.6678"W	9376.28	344.971	0.28
16712.00	90.180	342.080	7149.85	9444.60	9146.86	-2461.02	1732036.18	14206489.79	39°07'12.1241"N	80°40'37.0403"W	9472.15	344.941	0.21



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Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
16809.00	89.570	341.550	7150.06	9541.58	9239.02	-2491.29	1732005.92	14206581.91	39°07'13.0360"N	80°40'37.4202"W	9569.01	344.909	0.83
16905.00	89.720	342.160	7150.66	9637.55	9330.24	-2521.18	1731976.03	14206673.09	39°07'13.9387"N	80°40'37.7954"W	9664.87	344.879	0.65
17002.00	89.780	341.990	7151.08	9734.52	9422.53	-2551.04	1731946.19	14206765.35	39°07'14.8519"N	80°40'38.1701"W	9761.76	344.851	0.19
17099.00	90.280	342.880	7151.03	9831.47	9515.01	-2580.31	1731916.93	14206857.79	39°07'15.7670"N	80°40'38.5373"W	9858.67	344.827	1.05
17196.00	89.630	341.850	7151.11	9928.42	9607.45	-2609.70	1731887.56	14206950.19	39°07'16.6817"N	80°40'38.9060"W	9955.58	344.803	1.26
17292.00	90.250	343.030	7151.21	10024.36	9698.97	-2638.66	1731858.61	14207041.68	39°07'17.5873"N	80°40'39.2694"W	10051.50	344.781	1.39
17387.00	89.510	341.890	7151.40	10119.31	9789.55	-2667.29	1731829.99	14207132.23	39°07'18.4836"N	80°40'39.6286"W	10146.42	344.759	1.43
17483.00	89.570	342.100	7152.18	10215.28	9880.85	-2696.96	1731800.33	14207223.49	39°07'19.3870"N	80°40'40.0010"W	10242.30	344.733	0.23
17579.00	90.030	343.070	7152.51	10311.22	9972.45	-2725.69	1731771.61	14207315.05	39°07'20.2933"N	80°40'40.3614"W	10338.23	344.713	1.12
17675.00	89.850	342.930	7152.61	10407.13	10064.25	-2753.76	1731743.55	14207406.82	39°07'21.2017"N	80°40'40.7134"W	10434.19	344.697	0.24
17772.00	89.850	340.330	7152.87	10504.10	10156.30	-2784.33	1731712.99	14207498.83	39°07'22.1125"N	80°40'41.0971"W	10531.04	344.669	2.68
17869.00	90.220	341.410	7152.81	10601.10	10247.94	-2816.11	1731681.22	14207590.44	39°07'23.0194"N	80°40'41.4963"W	10627.83	344.635	1.18
17966.00	89.570	340.140	7152.98	10698.10	10339.53	-2848.05	1731649.29	14207681.99	39°07'23.9258"N	80°40'41.8975"W	10724.61	344.600	1.47
18063.00	89.510	340.050	7153.76	10795.09	10430.73	-2881.08	1731616.28	14207773.15	39°07'24.8283"N	80°40'42.3124"W	10821.31	344.559	0.11
18158.00	89.720	340.320	7154.40	10890.09	10520.10	-2913.28	1731584.09	14207862.49	39°07'25.7128"N	80°40'42.7170"W	10916.03	344.521	0.36
18254.00	89.660	339.930	7154.92	10986.08	10610.39	-2945.92	1731551.47	14207952.74	39°07'26.6063"N	80°40'43.1271"W	11011.75	344.483	0.41
18350.00	90.000	340.320	7155.20	11082.08	10700.67	-2978.55	1731518.84	14208042.98	39°07'27.4997"N	80°40'43.5372"W	11107.48	344.445	0.54
18446.00	89.940	340.210	7155.26	11178.08	10791.03	-3010.97	1731486.44	14208133.31	39°07'28.3940"N	80°40'43.9444"W	11203.22	344.410	0.13
18543.00	89.780	340.050	7155.49	11275.07	10882.25	-3043.94	1731453.48	14208224.50	39°07'29.2968"N	80°40'44.3587"W	11299.96	344.373	0.23
18640.00	90.460	340.370	7155.29	11372.07	10973.52	-3076.78	1731420.66	14208315.73	39°07'30.2000"N	80°40'44.7713"W	11396.70	344.337	0.77
18736.00	89.820	339.520	7155.05	11468.06	11063.70	-3109.70	1731387.75	14208405.87	39°07'31.0924"N	80°40'45.1850"W	11492.42	344.301	1.11
18833.00	90.180	340.340	7155.05	11565.06	11154.81	-3142.99	1731354.47	14208496.95	39°07'31.9941"N	80°40'45.6033"W	11589.14	344.264	0.92
18930.00	89.660	339.480	7155.19	11662.05	11245.91	-3176.31	1731321.17	14208588.01	39°07'32.8956"N	80°40'46.0220"W	11685.86	344.228	1.04
19027.00	90.000	339.850	7155.48	11759.04	11336.86	-3210.01	1731287.47	14208678.93	39°07'33.7958"N	80°40'46.4457"W	11782.55	344.191	0.52
19123.00	90.030	340.380	7155.45	11855.03	11427.14	-3242.67	1731254.83	14208769.17	39°07'34.6892"N	80°40'46.8560"W	11878.31	344.158	0.55
19220.00	89.690	339.600	7155.69	11952.03	11518.28	-3275.86	1731221.66	14208860.28	39°07'35.5912"N	80°40'47.2731"W	11975.06	344.124	0.88
19317.00	89.850	339.860	7156.08	12049.02	11609.27	-3309.46	1731188.06	14208951.23	39°07'36.4917"N	80°40'47.6954"W	12071.77	344.089	0.31
19413.00	89.780	339.990	7156.39	12145.01	11699.44	-3342.41	1731155.13	14209041.36	39°07'37.3840"N	80°40'48.1095"W	12167.52	344.056	0.15
19510.00	89.850	339.820	7156.70	12242.00	11790.53	-3375.74	1731121.81	14209132.42	39°07'38.2855"N	80°40'48.5284"W	12264.27	344.023	0.19
19606.00	89.820	339.790	7156.98	12337.99	11880.63	-3408.88	1731088.68	14209222.48	39°07'39.1772"N	80°40'48.9449"W	12360.01	343.990	0.04



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Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
19703.00	89.880	340.150	7157.23	12434.99	11971.76	-3442.11	1731055.47	14209313.58	39°07'40.0791"N	80°40'49.3624"W	12456.77	343.959	0.38
19800.00	89.510	340.190	7157.75	12531.98	12063.01	-3475.01	1731022.58	14209404.79	39°07'40.9821"N	80°40'49.7759"W	12553.56	343.930	0.38
19896.00	89.510	339.980	7158.57	12627.98	12153.27	-3507.71	1730989.90	14209495.01	39°07'41.8753"N	80°40'50.1868"W	12649.34	343.901	0.22
19992.00	89.510	339.690	7159.39	12723.97	12243.38	-3540.80	1730956.82	14209585.09	39°07'42.7671"N	80°40'50.6027"W	12745.10	343.870	0.30
20089.00	89.540	340.210	7160.20	12820.96	12334.49	-3574.06	1730923.57	14209676.17	39°07'43.6688"N	80°40'51.0206"W	12841.87	343.840	0.54
20186.00	90.430	341.100	7160.22	12917.95	12426.02	-3606.19	1730891.46	14209767.66	39°07'44.5745"N	80°40'51.4243"W	12938.72	343.817	1.30
20283.00	89.660	340.250	7160.14	13014.95	12517.55	-3638.29	1730859.37	14209859.15	39°07'45.4803"N	80°40'51.8275"W	13035.57	343.793	1.18
20378.00	89.510	339.970	7160.83	13109.95	12606.88	-3670.61	1730827.06	14209948.45	39°07'46.3644"N	80°40'52.2337"W	13130.38	343.767	0.33
20474.00	89.570	339.850	7161.60	13205.94	12697.04	-3703.58	1730794.10	14210038.57	39°07'47.2566"N	80°40'52.6481"W	13226.16	343.739	0.14
20570.00	89.510	340.130	7162.37	13301.93	12787.24	-3736.43	1730761.27	14210128.74	39°07'48.1493"N	80°40'53.0609"W	13321.95	343.712	0.30
20666.00	89.630	340.430	7163.09	13397.92	12877.61	-3768.82	1730728.89	14210219.07	39°07'49.0436"N	80°40'53.4680"W	13417.78	343.687	0.34
20763.00	89.510	339.840	7163.82	13494.92	12968.83	-3801.78	1730695.94	14210310.26	39°07'49.9463"N	80°40'53.8822"W	13514.59	343.662	0.62
20860.00	89.600	340.320	7164.58	13591.91	13060.02	-3834.83	1730662.90	14210401.42	39°07'50.8488"N	80°40'54.2975"W	13611.40	343.636	0.50
20957.00	89.510	339.800	7165.33	13688.90	13151.21	-3867.91	1730629.84	14210492.56	39°07'51.7512"N	80°40'54.7132"W	13708.21	343.611	0.54
21054.00	89.570	339.880	7166.11	13785.89	13242.26	-3901.34	1730596.42	14210583.58	39°07'52.6523"N	80°40'55.1334"W	13804.99	343.584	0.10
21150.00	89.510	339.870	7166.88	13881.88	13332.40	-3934.37	1730563.41	14210673.68	39°07'53.5443"N	80°40'55.5485"W	13900.79	343.559	0.06
21249.00	89.600	339.900	7167.65	13980.87	13425.35	-3968.41	1730529.37	14210766.60	39°07'54.4643"N	80°40'55.9764"W	13999.59	343.533	0.10
21343.00	89.880	340.400	7168.07	14074.87	13513.77	-4000.33	1730497.47	14210854.98	39°07'55.3392"N	80°40'56.3776"W	14093.42	343.510	0.61
21440.00	89.660	340.030	7168.46	14171.87	13605.04	-4033.16	1730464.65	14210946.22	39°07'56.2425"N	80°40'56.7902"W	14190.26	343.488	0.44
21536.00	89.750	339.980	7168.96	14267.86	13695.25	-4065.99	1730431.83	14211036.40	39°07'57.1353"N	80°40'57.2028"W	14286.08	343.464	0.11
21633.00	89.820	340.260	7169.32	14364.86	13786.47	-4098.97	1730398.86	14211127.58	39°07'58.0380"N	80°40'57.6173"W	14382.92	343.442	0.30
21730.00	89.880	340.210	7169.58	14461.85	13877.76	-4131.78	1730366.07	14211218.83	39°07'58.9414"N	80°40'58.0295"W	14479.77	343.420	0.08
21826.00	89.110	339.730	7170.42	14557.84	13967.95	-4164.66	1730333.21	14211308.98	39°07'59.8339"N	80°40'58.4428"W	14575.59	343.398	0.95
21923.00	89.750	340.020	7171.39	14654.83	14059.02	-4198.03	1730299.85	14211400.02	39°08'0.7352"N	80°40'58.8623"W	14672.40	343.374	0.72
22020.00	89.230	337.490	7172.25	14751.77	14149.41	-4233.17	1730264.72	14211490.38	39°08'1.6299"N	80°40'59.3043"W	14769.08	343.344	2.66
22116.00	90.220	340.310	7172.71	14847.72	14238.97	-4267.73	1730230.18	14211579.90	39°08'2.5162"N	80°40'59.7388"W	14864.78	343.315	3.11
22213.00	91.510	342.270	7171.25	14944.69	14330.82	-4298.84	1730199.08	14211671.72	39°08'3.4251"N	80°41'0.1296"W	14961.70	343.302	2.42
22309.00	89.290	339.800	7170.58	15040.67	14421.60	-4330.03	1730167.90	14211762.46	39°08'4.3234"N	80°41'0.5214"W	15057.61	343.288	3.46
22407.00	88.060	339.400	7172.84	15138.63	14513.43	-4364.18	1730133.76	14211854.25	39°08'5.2322"N	80°41'0.9508"W	15155.38	343.264	1.32
22503.00	89.170	340.920	7175.16	15234.60	14603.70	-4396.75	1730101.20	14211944.48	39°08'6.1255"N	80°41'1.3601"W	15251.21	343.244	1.96



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Actual Wellpath Report

Van Wie 1221 N-3H awp Proj: 30227'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
22600.00	90.680	342.700	7175.29	15331.57	14695.84	-4427.03	1730070.93	14212036.59	39°08'7.0373"N	80°41'1.7403"W	15348.17	343.235	2.41
22696.00	89.260	340.620	7175.34	15427.54	14786.96	-4457.24	1730040.74	14212127.67	39°08'7.9389"N	80°41'2.1196"W	15444.13	343.226	2.62
22793.00	89.230	340.870	7176.62	15524.53	14878.53	-4489.22	1730008.77	14212219.20	39°08'8.8450"N	80°41'2.5215"W	15541.03	343.210	0.26
22889.00	89.230	340.590	7177.91	15620.52	14969.14	-4520.90	1729977.10	14212309.78	39°08'9.7417"N	80°41'2.9195"W	15636.93	343.195	0.29
22986.00	88.710	340.930	7179.65	15717.51	15060.71	-4552.86	1729945.16	14212401.31	39°08'10.6478"N	80°41'3.3211"W	15733.83	343.180	0.64
23082.00	88.400	341.050	7182.07	15813.47	15151.44	-4584.12	1729913.91	14212492.01	39°08'11.5457"N	80°41'3.7138"W	15829.73	343.167	0.35
23179.00	89.450	341.010	7183.89	15910.45	15243.15	-4615.64	1729882.39	14212583.69	39°08'12.4533"N	80°41'4.1099"W	15926.64	343.154	1.08
23276.00	89.170	340.620	7185.06	16007.44	15334.76	-4647.52	1729850.53	14212675.26	39°08'13.3598"N	80°41'4.5103"W	16023.56	343.139	0.49
23372.00	88.830	340.290	7186.74	16103.43	15425.22	-4679.63	1729818.43	14212765.68	39°08'14.2549"N	80°41'4.9139"W	16119.44	343.123	0.49
23469.00	89.540	341.360	7188.12	16200.42	15516.82	-4711.49	1729786.59	14212857.25	39°08'15.1614"N	80°41'5.3141"W	16216.35	343.110	1.32
23566.00	89.170	341.010	7189.21	16297.40	15608.63	-4742.77	1729755.32	14212949.03	39°08'16.0699"N	80°41'5.7071"W	16313.29	343.098	0.53
23663.00	89.420	340.600	7190.40	16394.40	15700.23	-4774.66	1729723.44	14213040.59	39°08'16.9764"N	80°41'6.1078"W	16410.20	343.085	0.50
23759.00	89.540	341.030	7191.27	16490.39	15790.90	-4806.20	1729691.91	14213131.22	39°08'17.8736"N	80°41'6.5042"W	16506.12	343.072	0.47
23856.00	89.750	340.860	7191.87	16587.39	15882.58	-4837.87	1729660.26	14213222.87	39°08'18.7808"N	80°41'6.9020"W	16603.05	343.059	0.28
23953.00	89.720	340.880	7192.32	16684.39	15974.22	-4869.66	1729628.48	14213314.47	39°08'19.6877"N	80°41'7.3014"W	16699.98	343.046	0.04
24050.00	89.260	340.940	7193.19	16781.38	16065.88	-4901.38	1729596.77	14213406.10	39°08'20.5947"N	80°41'7.7000"W	16796.91	343.034	0.48
24147.00	89.260	340.710	7194.44	16878.37	16157.50	-4933.24	1729564.92	14213497.67	39°08'21.5013"N	80°41'8.1003"W	16893.83	343.021	0.24
24244.00	89.380	340.850	7195.59	16975.36	16249.08	-4965.17	1729533.01	14213589.23	39°08'22.4076"N	80°41'8.5015"W	16990.75	343.009	0.19
24340.00	88.890	340.740	7197.04	17071.35	16339.73	-4996.74	1729501.44	14213679.84	39°08'23.3046"N	80°41'8.8983"W	17086.67	342.996	0.52
24437.00	87.290	339.060	7200.27	17168.28	16430.76	-5030.06	1729468.14	14213770.84	39°08'24.2055"N	80°41'9.3171"W	17183.47	342.979	2.39
24534.00	88.550	341.490	7203.79	17265.21	16522.00	-5062.77	1729435.44	14213862.04	39°08'25.1084"N	80°41'9.7283"W	17280.29	342.964	2.82
24631.00	88.680	341.010	7206.14	17362.17	16613.83	-5093.94	1729404.29	14213953.83	39°08'26.0171"N	80°41'10.1199"W	17377.21	342.954	0.51
24728.00	89.750	341.850	7207.47	17459.15	16705.77	-5124.83	1729373.41	14214045.73	39°08'26.9268"N	80°41'10.5078"W	17474.17	342.946	1.40
24824.00	89.290	340.920	7208.27	17555.14	16796.74	-5155.47	1729342.78	14214136.67	39°08'27.8270"N	80°41'10.8928"W	17570.13	342.937	1.08
24920.00	89.420	340.970	7209.35	17651.13	16887.48	-5186.81	1729311.45	14214227.37	39°08'28.7249"N	80°41'11.2866"W	17666.06	342.926	0.15
25016.00	90.830	342.430	7209.14	17747.10	16978.62	-5216.95	1729281.32	14214318.47	39°08'29.6267"N	80°41'11.6651"W	17762.04	342.920	2.11
25113.00	88.490	339.700	7209.72	17844.08	17070.35	-5248.42	1729249.87	14214410.17	39°08'30.5345"N	80°41'12.0605"W	17858.97	342.910	3.71
25209.00	88.550	340.580	7212.20	17940.05	17160.61	-5281.02	1729217.28	14214500.40	39°08'31.4277"N	80°41'12.4704"W	17954.82	342.895	0.92
25305.00	88.550	340.520	7214.63	18036.02	17251.10	-5312.98	1729185.33	14214590.85	39°08'32.3232"N	80°41'12.8720"W	18050.71	342.882	0.06
25402.00	88.090	340.930	7217.47	18132.97	17342.63	-5344.99	1729153.34	14214682.34	39°08'33.2289"N	80°41'13.2742"W	18147.60	342.871	0.64



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Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
25498.00	88.400	341.030	7220.41	18228.93	17433.34	-5376.26	1729122.08	14214773.02	39°08'34.1265"N	80°41'13.6672"W	18243.51	342.861	0.34
25595.00	88.680	341.430	7222.88	18325.89	17525.15	-5407.46	1729090.89	14214864.80	39°08'35.0350"N	80°41'14.0592"W	18340.44	342.852	0.50
25690.00	88.950	341.400	7224.85	18420.86	17615.18	-5437.73	1729060.63	14214954.79	39°08'35.9259"N	80°41'14.4394"W	18435.39	342.845	0.29
25787.00	88.860	341.190	7226.70	18517.83	17707.04	-5468.83	1729029.54	14215046.61	39°08'36.8348"N	80°41'14.8302"W	18532.33	342.837	0.24
25884.00	89.260	341.530	7228.29	18614.81	17798.94	-5499.83	1728998.55	14215138.47	39°08'37.7442"N	80°41'15.2196"W	18629.29	342.829	0.54
25981.00	88.120	341.250	7230.51	18711.77	17890.84	-5530.78	1728967.62	14215230.34	39°08'38.6536"N	80°41'15.6084"W	18726.23	342.822	1.21
26078.00	89.510	341.850	7232.52	18808.74	17982.83	-5561.47	1728936.94	14215322.30	39°08'39.5639"N	80°41'15.9939"W	18823.18	342.815	1.56
26175.00	89.320	341.280	7233.51	18905.72	18074.85	-5592.14	1728906.28	14215414.28	39°08'40.4744"N	80°41'16.3792"W	18920.15	342.809	0.62
26271.00	89.290	340.950	7234.67	19001.70	18165.68	-5623.21	1728875.22	14215505.07	39°08'41.3731"N	80°41'16.7696"W	19016.10	342.800	0.35
26367.00	88.800	340.610	7236.27	19097.69	18256.31	-5654.81	1728843.64	14215595.67	39°08'42.2700"N	80°41'17.1667"W	19112.03	342.790	0.62
26464.00	87.690	339.120	7239.24	19194.63	18347.34	-5688.18	1728810.28	14215686.66	39°08'43.1708"N	80°41'17.5863"W	19208.86	342.775	1.91
26561.00	88.280	341.190	7242.65	19291.56	18438.51	-5721.09	1728777.38	14215777.80	39°08'44.0731"N	80°41'18.0000"W	19305.69	342.762	2.22
26658.00	87.380	340.090	7246.32	19388.49	18529.96	-5753.22	1728745.26	14215869.21	39°08'44.9781"N	80°41'18.4039"W	19402.55	342.751	1.46
26755.00	88.030	340.960	7250.21	19485.41	18621.34	-5785.53	1728712.96	14215960.55	39°08'45.8823"N	80°41'18.8101"W	19499.40	342.740	1.12
26851.00	87.010	340.430	7254.36	19581.32	18711.85	-5817.24	1728681.27	14216051.03	39°08'46.7780"N	80°41'19.2086"W	19595.25	342.730	1.20
26948.00	86.300	339.720	7260.02	19678.15	18802.89	-5850.24	1728648.28	14216142.03	39°08'47.6789"N	80°41'19.6235"W	19691.98	342.717	1.03
27141.00	87.510	340.960	7270.44	19870.86	18984.37	-5915.07	1728583.47	14216323.44	39°08'49.4748"N	80°41'20.4385"W	19884.52	342.694	0.90
27238.00	87.660	341.210	7274.53	19967.77	19076.05	-5946.49	1728552.07	14216415.08	39°08'50.3820"N	80°41'20.8333"W	19981.40	342.686	0.30
27334.00	87.720	341.210	7278.40	20063.69	19166.86	-5977.39	1728521.19	14216505.86	39°08'51.2806"N	80°41'21.2215"W	20077.29	342.679	0.06
27431.00	88.980	341.020	7281.19	20160.64	19258.60	-6008.77	1728489.82	14216597.56	39°08'52.1884"N	80°41'21.6159"W	20174.21	342.672	1.31
27528.00	89.690	340.930	7282.32	20257.63	19350.29	-6040.39	1728458.21	14216689.22	39°08'53.0957"N	80°41'22.0132"W	20271.16	342.664	0.74
27625.00	90.090	341.020	7282.51	20354.63	19441.99	-6072.01	1728426.60	14216780.88	39°08'54.0031"N	80°41'22.4106"W	20368.12	342.656	0.42
27721.00	89.380	341.150	7282.95	20450.62	19532.81	-6103.13	1728395.50	14216871.66	39°08'54.9018"N	80°41'22.8017"W	20464.08	342.648	0.75
27817.00	88.400	339.060	7284.81	20546.59	19623.05	-6135.79	1728362.85	14216961.87	39°08'55.7949"N	80°41'23.2123"W	20559.96	342.636	2.40
27913.00	89.380	340.390	7286.67	20642.56	19713.09	-6169.04	1728329.60	14217051.87	39°08'56.6858"N	80°41'23.6306"W	20655.82	342.623	1.72
28010.00	88.800	338.030	7288.21	20739.52	19803.75	-6203.47	1728295.19	14217142.50	39°08'57.5831"N	80°41'24.0636"W	20752.63	342.607	2.51
28106.00	89.230	339.930	7289.86	20835.46	19893.35	-6237.89	1728260.78	14217232.06	39°08'58.4698"N	80°41'24.4967"W	20848.42	342.590	2.03
28202.00	89.170	340.090	7291.20	20931.45	19983.55	-6270.71	1728227.98	14217322.23	39°08'59.3625"N	80°41'24.9093"W	20944.31	342.578	0.18
28299.00	89.110	339.860	7292.66	21028.43	20074.68	-6303.92	1728194.78	14217413.32	39°09'00.2643"N	80°41'25.3270"W	21041.20	342.566	0.25
28396.00	89.200	339.790	7294.09	21125.41	20165.72	-6337.37	1728161.34	14217504.33	39°09'01.1652"N	80°41'25.7476"W	21138.08	342.554	0.12



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Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

WELLPATH DATA (350 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]
28492.00	88.950	339.600	7295.64	21221.39	20255.74	-6370.68	1728128.05	14217594.31	39°09'2.0561"N	80°41'26.1666"W	21233.95	342.541	0.33
28589.00	89.170	339.930	7297.23	21318.36	20346.74	-6404.23	1728094.51	14217685.28	39°09'2.9566"N	80°41'26.5884"W	21330.82	342.528	0.41
28686.00	89.200	340.210	7298.61	21415.35	20437.92	-6437.29	1728061.47	14217776.42	39°09'3.8590"N	80°41'27.0042"W	21427.72	342.517	0.29
28782.00	89.600	340.360	7299.61	21511.34	20528.29	-6469.67	1728029.09	14217866.76	39°09'4.7532"N	80°41'27.4113"W	21523.65	342.507	0.44
28879.00	89.600	339.610	7300.29	21608.34	20619.43	-6502.87	1727995.91	14217957.86	39°09'5.6551"N	80°41'27.8288"W	21620.55	342.496	0.77
28976.00	89.970	340.260	7300.65	21705.33	20710.54	-6536.15	1727962.64	14218048.93	39°09'6.5568"N	80°41'28.2473"W	21717.45	342.485	0.77
29073.00	90.090	340.130	7300.60	21802.33	20801.80	-6569.01	1727929.79	14218140.16	39°09'7.4599"N	80°41'28.6605"W	21814.37	342.474	0.18
29169.00	90.650	340.600	7299.98	21898.32	20892.22	-6601.27	1727897.55	14218230.54	39°09'8.3546"N	80°41'29.0661"W	21910.31	342.465	0.76
29266.00	89.940	340.110	7299.48	21995.32	20983.57	-6633.88	1727864.95	14218321.86	39°09'9.2586"N	80°41'29.4761"W	22007.24	342.456	0.89
29362.00	89.970	340.030	7299.56	22091.32	21073.82	-6666.60	1727832.24	14218412.07	39°09'10.1517"N	80°41'29.8876"W	22103.16	342.445	0.09
29459.00	90.000	340.270	7299.58	22188.31	21165.06	-6699.54	1727799.31	14218503.27	39°09'11.0546"N	80°41'30.3018"W	22200.08	342.435	0.25
29556.00	89.940	340.270	7299.64	22285.31	21256.36	-6732.29	1727766.58	14218594.54	39°09'11.9581"N	80°41'30.7136"W	22297.01	342.426	0.06
29651.00	90.090	340.000	7299.61	22380.31	21345.71	-6764.57	1727734.31	14218683.85	39°09'12.8423"N	80°41'31.1195"W	22391.93	342.416	0.33
29748.00	90.090	340.070	7299.46	22477.30	21436.88	-6797.69	1727701.20	14218774.99	39°09'13.7445"N	80°41'31.5360"W	22488.85	342.406	0.07
29845.00	90.250	340.280	7299.17	22574.30	21528.13	-6830.59	1727668.32	14218866.20	39°09'14.6475"N	80°41'31.9497"W	22585.78	342.396	0.27
29942.00	90.490	340.460	7298.54	22671.30	21619.49	-6863.17	1727635.75	14218957.53	39°09'15.5516"N	80°41'32.3594"W	22682.71	342.388	0.31
30038.00	90.520	340.450	7297.70	22767.30	21709.96	-6895.29	1727603.64	14219047.96	39°09'16.4468"N	80°41'32.7632"W	22778.66	342.380	0.03
30134.00	90.310	340.680	7297.00	22863.29	21800.48	-6927.23	1727571.71	14219138.45	39°09'17.3426"N	80°41'33.1648"W	22874.61	342.372	0.32
30201.00	90.950	340.660	7296.27	22930.29	21863.70	-6949.41	1727549.55	14219201.64	39°09'17.9682"N	80°41'33.4436"W	22941.57	342.367	0.96
30227.00†	90.950	340.660	7295.83	22956.28	21888.23	-6958.02	1727540.94	14219226.16	39°09'18.2109"N	80°41'33.5518"W	22967.56	342.365	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Van Wie 1221 N-3H AWB Ref Wellpath: Van Wie 1221 N-3H awp Proj: 30227'

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]
13.375in Casing	25.00	2751.00	2726.00	25.00	2750.95	0.00	0.00	-9.34	4.36
9.625in Casing	25.00	6156.00	6131.00	25.00	6099.78	0.00	0.00	-240.41	534.32
5.5in Casing	25.00	30227.00	30202.00	25.00	7295.83	0.00	0.00	21888.23	-6958.02



Actual Wellpath Report

Van Wie 1221 N-3H awp Proj: 30227'
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Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-3H LP rev 2	7090.00	591.67	552.72	1735048.73	14197937.95	39°05'47.4588"N	80°39'59.2001"W	point
1221 N-3H 6000vs	7118.00	5908.48	-1290.86	1733205.88	14203252.67	39°06'40.0753"N	80°40'22.3411"W	point
1221 N-3H 7500vs	7126.00	7322.15	-1792.20	1732704.73	14204665.79	39°06'54.0655"N	80°40'28.6372"W	point
1221 N-3H 6500vs	7129.00	6379.70	-1457.97	1733038.83	14203723.71	39°06'44.7387"N	80°40'24.4397"W	point
1221 N-3H 10000vs	7130.00	9678.26	-2627.78	1731869.48	14207020.98	39°07'17.3822"N	80°40'39.1323"W	point
1221 N-3H 14000vs	7164.00	13448.05	-3964.69	1730533.09	14210789.29	39°07'54.6885"N	80°40'55.9283"W	point
1221 N-3H 17000vs	7206.00	16275.40	-4967.39	1729530.79	14213615.53	39°08'22.6678"N	80°41'8.5285"W	point
1221 N-3H 18000vs	7226.00	17217.84	-5301.62	1729196.69	14214557.60	39°08'31.9940"N	80°41'12.7292"W	point

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Actual Wellpath Report

Van Wie 1221 N-3H awp Proj: 30227'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-3H
Field	Lewis	API	47041057620000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-3H AWB
Slot	3H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-3H 20500vs	7281.00	19573.96	-6137.19	1728361.44	14216912.80	39°08'55.3097"N	80°41'23.2323"W	point
1221 N-3H 19150vs	7286.00	18301.65	-5685.98	1728812.48	14215640.99	39°08'42.7192"N	80°41'17.5604"W	point
1221 N-3H BHL rev 2	7294.00	21885.25	-6956.87	1727542.09	14219223.18	39°09'18.1813"N	80°41'33.5374"W	point

WELLPATH COMPOSITION - Ref Wellbore: Van Wie 1221 N-3H AWB Ref Wellpath: Van Wie 1221 N-3H awp Proj: 30227'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1192.00	BH Generic gyro - northseeking (Standard)	1 SDI Keeper 18.5" 100' - 1192'	Van Wie 1221 N-3H AWB	11/29/2024
1192.00	2751.00	BH NaviTrak (2019) (Axial Corr+HRGM)	2 APS EM 17.5" 1233' - 2751'	Van Wie 1221 N-3H AWB	11/29/2024
2751.00	6080.00	BH NaviTrak (2019) (Axial Corr+HRGM)	3 APS EM 12.25" 2895' - 6080'	Van Wie 1221 N-3H AWB	11/29/2024
6080.00	11785.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC HRGM short spacing 8.5" 6197' - 11785'	Van Wie 1221 N-3H AWB	11/29/2024
11785.00	30227.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	5 BH ATC HRGM short spacing 8.5" 11797' - 30201'	Van Wie 1221 N-3H AWB	11/29/2024

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