



HG ENERGY II APPALACHIA, LLC



Location: Lewis County, WV
Field: Lewis
Facility: Van Wie 1221 Pad

Slot: 5H
Well: Van Wie 1221 N-5H
Wellbore: Van Wie 1221 N-5H AWB

Plot reference wellpath is Van Wie 1221 N-5H awp Proj: 26317
True vertical depths are referenced to Precision 572 (RKB)
Reference wellpath measured depths are referenced to Precision 572 (RKB)
Precision 572 (RKB) to Mean Sea Level: 1276.77 feet
Mean Sea Level to Mud line (At Slot: 5H): -1251.77 feet
Offset wellpath MDs are referenced to each path's default MD datum
Grid System: NAD83 / UTM Zone 17 North, US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: tranlam on 2025-06-07; Database: WA_MPL_EASTERNUS_Defn

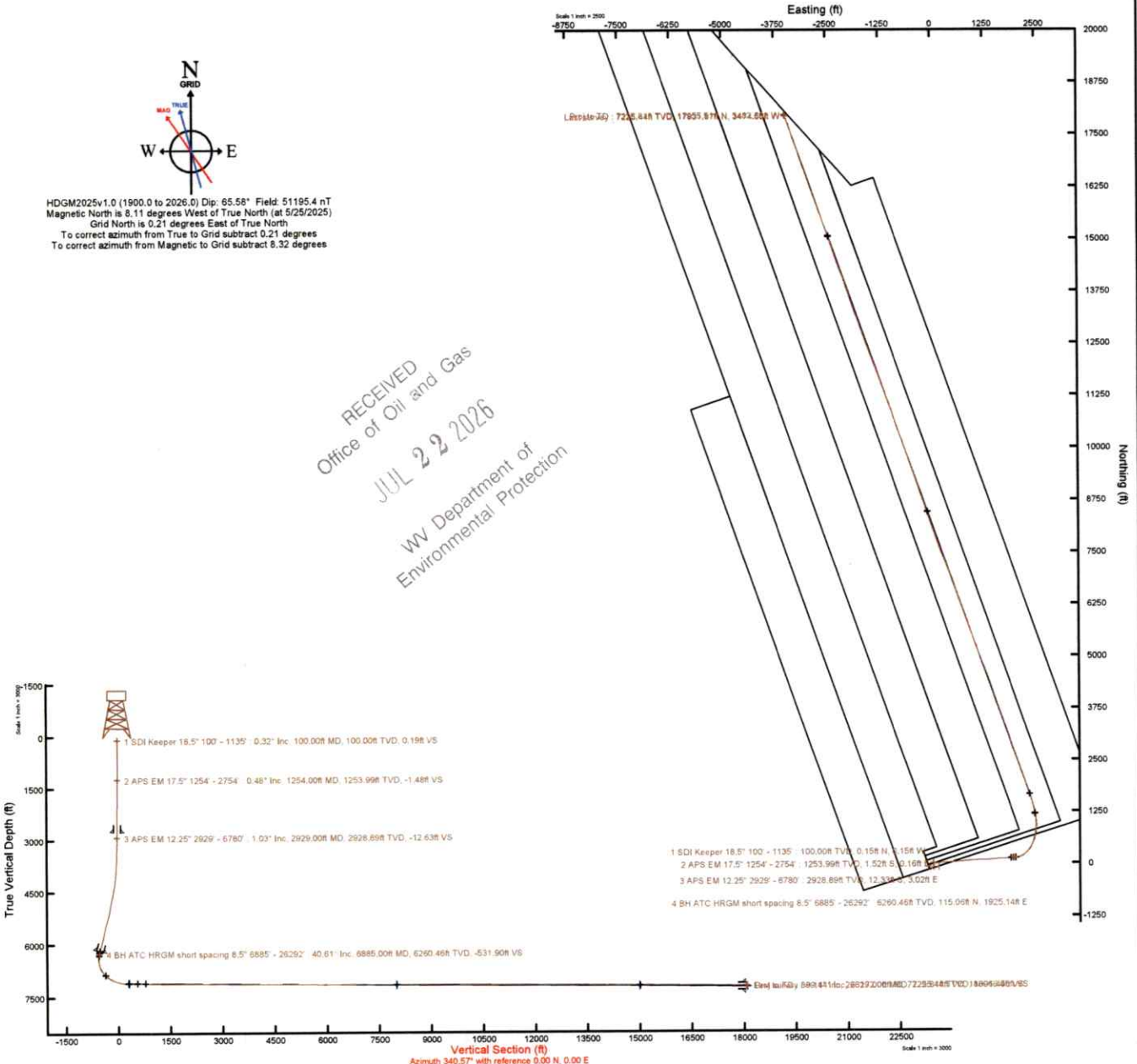
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Van Wie 1221 Pad			1734473.600	14197326.830	39°05'41.4371"N	80°40'6.5262"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
5H	39.37	45.28	1734518.860	14197366.180	39°05'41.8246"N	80°40'5.9501"W
Precision 572 (RKB) to Mud line (At Slot: 5H)					25ft	
Mean Sea Level to Mud line (At Slot: 5H)					-1251.77ft	
Precision 572 (RKB) to Mean Sea Level					1276.77ft	

Bottom Hole Location

MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
26317.00	89.140	340.980	7225.81	17955.51	-3482.69	1731037.53	14215314.65	39°08'39.4160"N	80°40'49.3219"W

API: 47041057640000
BH JOB: 112485870
DURATION: 2/14/2025 - 6/7/2025
RIG: Precision 572



07/31/2026

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Environmental Protection



Actual Wellpath Report

Van Wie 1221 N-5H awp Proj: 26317'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-5H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

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	6/7/2025 at 9:46:47 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	39.37	45.28	1734518.86	14197366.18	39°05'41.8246"N	80°40'5.9501"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	Precision 572 (RKB) to Facility Vertical Datum	1276.77ft
Horizontal Reference Pt	Slot	Precision 572 (RKB) to Mean Sea Level	1276.77ft
Vertical Reference Pt	Precision 572 (RKB)	Precision 572 (RKB) to Mud Line at Slot (5H)	25.00ft
MD Reference Pt	Precision 572 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.57°

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Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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	314.610	0.00	0.00	0.00	0.00	1734518.86	14197366.18	39°05'41.8246"N	80°40'5.9501"W	0.00	0.000	0.00
25.00	0.000	314.610	25.00	0.00	0.00	0.00	1734518.86	14197366.18	39°05'41.8246"N	80°40'5.9501"W	0.00	0.000	0.00
100.00	0.320	314.610	100.00	0.19	0.15	-0.15	1734518.71	14197366.33	39°05'41.8260"N	80°40'5.9520"W	0.21	314.610	0.43
125.00	0.300	347.780	125.00	0.32	0.26	-0.21	1734518.65	14197366.44	39°05'41.8271"N	80°40'5.9528"W	0.34	320.729	0.71
150.00	0.600	12.710	150.00	0.49	0.45	-0.20	1734518.66	14197366.63	39°05'41.8290"N	80°40'5.9526"W	0.49	336.363	1.41
175.00	0.450	15.600	175.00	0.68	0.67	-0.14	1734518.72	14197366.85	39°05'41.8312"N	80°40'5.9519"W	0.69	348.061	0.61
200.00	0.200	23.950	200.00	0.80	0.81	-0.10	1734518.76	14197366.99	39°05'41.8325"N	80°40'5.9513"W	0.81	353.061	1.02
225.00	0.060	272.230	225.00	0.83	0.85	-0.09	1734518.77	14197367.03	39°05'41.8329"N	80°40'5.9512"W	0.85	353.696	0.92
250.00	0.080	329.480	250.00	0.85	0.86	-0.12	1734518.74	14197367.04	39°05'41.8331"N	80°40'5.9515"W	0.87	352.375	0.28
275.00	0.150	296.000	275.00	0.89	0.89	-0.15	1734518.71	14197367.07	39°05'41.8334"N	80°40'5.9520"W	0.91	350.224	0.38
300.00	0.150	262.130	300.00	0.92	0.90	-0.22	1734518.64	14197367.08	39°05'41.8335"N	80°40'5.9528"W	0.93	346.567	0.35
325.00	0.130	267.080	325.00	0.94	0.90	-0.28	1734518.58	14197367.08	39°05'41.8334"N	80°40'5.9535"W	0.94	342.877	0.09
350.00	0.150	240.110	350.00	0.94	0.88	-0.33	1734518.53	14197367.06	39°05'41.8333"N	80°40'5.9543"W	0.94	339.257	0.27
375.00	0.170	207.530	375.00	0.91	0.83	-0.38	1734518.48	14197367.01	39°05'41.8328"N	80°40'5.9548"W	0.91	335.490	0.37
400.00	0.200	180.200	400.00	0.84	0.75	-0.40	1734518.46	14197366.93	39°05'41.8320"N	80°40'5.9551"W	0.85	332.294	0.37
425.00	0.170	168.740	425.00	0.77	0.67	-0.39	1734518.47	14197366.85	39°05'41.8312"N	80°40'5.9550"W	0.78	330.017	0.19
450.00	0.130	138.130	450.00	0.70	0.62	-0.36	1734518.50	14197366.80	39°05'41.8307"N	80°40'5.9547"W	0.72	329.532	0.35
475.00	0.170	97.770	475.00	0.66	0.59	-0.31	1734518.55	14197366.77	39°05'41.8304"N	80°40'5.9539"W	0.67	332.523	0.44
500.00	0.250	102.210	500.00	0.61	0.57	-0.22	1734518.64	14197366.75	39°05'41.8302"N	80°40'5.9528"W	0.61	339.286	0.33
525.00	0.220	98.230	525.00	0.56	0.56	-0.12	1734518.74	14197366.74	39°05'41.8300"N	80°40'5.9515"W	0.57	348.182	0.14
550.00	0.140	119.450	550.00	0.52	0.53	-0.04	1734518.82	14197366.71	39°05'41.8298"N	80°40'5.9506"W	0.54	355.484	0.41
575.00	0.130	160.310	575.00	0.47	0.49	-0.01	1734518.85	14197366.67	39°05'41.8294"N	80°40'5.9501"W	0.49	359.301	0.38
600.00	0.270	169.380	600.00	0.38	0.41	0.01	1734518.87	14197366.59	39°05'41.8286"N	80°40'5.9499"W	0.41	2.025	0.57
625.00	0.190	177.590	625.00	0.28	0.31	0.03	1734518.89	14197366.49	39°05'41.8276"N	80°40'5.9497"W	0.31	5.010	0.35
650.00	0.130	169.580	650.00	0.21	0.24	0.03	1734518.89	14197366.42	39°05'41.8269"N	80°40'5.9496"W	0.24	8.076	0.26
675.00	0.150	188.120	675.00	0.16	0.18	0.03	1734518.89	14197366.36	39°05'41.8263"N	80°40'5.9496"W	0.18	10.905	0.20
700.00	0.160	225.330	699.99	0.11	0.12	0.00	1734518.86	14197366.30	39°05'41.8258"N	80°40'5.9500"W	0.12	2.327	0.40
725.00	0.310	221.790	724.99	0.07	0.05	-0.06	1734518.80	14197366.23	39°05'41.8250"N	80°40'5.9509"W	0.08	305.649	0.60
750.00	0.210	215.260	749.99	0.01	-0.04	-0.14	1734518.72	14197366.14	39°05'41.8242"N	80°40'5.9518"W	0.14	253.183	0.42
775.00	0.150	168.350	774.99	-0.05	-0.11	-0.16	1734518.70	14197366.07	39°05'41.8235"N	80°40'5.9521"W	0.19	234.692	0.61



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Van Wie 1221 N-5H awp Proj: 26317'

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Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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	0.200	177.390	799.99	-0.13	-0.19	-0.15	1734518.71	14197365.99	39°05'41.8227"N	80°40'5.9520"W	0.24	218.404	0.23
825.00	0.090	171.820	824.99	-0.19	-0.25	-0.14	1734518.72	14197365.93	39°05'41.8221"N	80°40'5.9519"W	0.29	209.821	0.44
850.00	0.120	206.560	849.99	-0.23	-0.29	-0.15	1734518.71	14197365.89	39°05'41.8217"N	80°40'5.9520"W	0.33	207.458	0.28
875.00	0.190	217.320	874.99	-0.27	-0.35	-0.19	1734518.67	14197365.83	39°05'41.8211"N	80°40'5.9525"W	0.40	208.425	0.30
900.00	0.210	218.460	899.99	-0.31	-0.42	-0.24	1734518.62	14197365.76	39°05'41.8204"N	80°40'5.9532"W	0.48	210.134	0.08
925.00	0.160	197.270	924.99	-0.37	-0.49	-0.28	1734518.58	14197365.69	39°05'41.8198"N	80°40'5.9537"W	0.56	210.018	0.34
950.00	0.190	189.530	949.99	-0.43	-0.56	-0.30	1734518.56	14197365.62	39°05'41.8190"N	80°40'5.9539"W	0.64	208.014	0.15
975.00	0.220	186.770	974.99	-0.51	-0.65	-0.31	1734518.55	14197365.53	39°05'41.8181"N	80°40'5.9541"W	0.72	205.584	0.13
1000.00	0.280	177.200	999.99	-0.61	-0.76	-0.31	1734518.55	14197365.42	39°05'41.8171"N	80°40'5.9541"W	0.82	202.473	0.29
1025.00	0.300	165.910	1024.99	-0.73	-0.88	-0.29	1734518.57	14197365.30	39°05'41.8158"N	80°40'5.9539"W	0.93	198.463	0.24
1050.00	0.230	165.290	1049.99	-0.85	-0.99	-0.27	1734518.59	14197365.19	39°05'41.8147"N	80°40'5.9535"W	1.03	194.973	0.28
1075.00	0.160	169.890	1074.99	-0.93	-1.08	-0.25	1734518.61	14197365.10	39°05'41.8139"N	80°40'5.9533"W	1.11	192.918	0.29
1100.00	0.250	172.200	1099.99	-1.02	-1.17	-0.23	1734518.63	14197365.01	39°05'41.8130"N	80°40'5.9531"W	1.19	191.330	0.36
1125.00	0.120	199.270	1124.99	-1.10	-1.24	-0.23	1734518.63	14197364.94	39°05'41.8123"N	80°40'5.9531"W	1.27	190.685	0.61
1135.00	0.110	217.130	1134.99	-1.11	-1.26	-0.24	1734518.62	14197364.92	39°05'41.8121"N	80°40'5.9532"W	1.29	190.945	0.37
1254.00	0.480	109.090	1253.99	-1.48	-1.52	0.16	1734519.02	14197364.66	39°05'41.8096"N	80°40'5.9481"W	1.52	174.051	0.44
1351.00	0.470	95.880	1350.99	-1.91	-1.69	0.94	1734519.80	14197364.49	39°05'41.8078"N	80°40'5.9383"W	1.93	150.974	0.11
1448.00	0.430	142.590	1447.98	-2.42	-2.02	1.55	1734520.41	14197364.16	39°05'41.8045"N	80°40'5.9305"W	2.55	142.415	0.37
1543.00	0.640	131.870	1542.98	-3.23	-2.66	2.17	1734521.03	14197363.52	39°05'41.7982"N	80°40'5.9227"W	3.43	140.810	0.24
1637.00	0.810	121.080	1636.97	-4.20	-3.35	3.13	1734521.99	14197362.83	39°05'41.7913"N	80°40'5.9106"W	4.58	136.983	0.23
1767.00	0.480	87.460	1766.97	-5.07	-3.80	4.46	1734523.32	14197362.38	39°05'41.7868"N	80°40'5.8937"W	5.86	130.454	0.38
1831.00	0.610	118.410	1830.96	-5.40	-3.95	5.02	1734523.88	14197362.23	39°05'41.7853"N	80°40'5.8865"W	6.39	128.178	0.49
1926.00	0.130	174.990	1925.96	-5.88	-4.30	5.48	1734524.34	14197361.88	39°05'41.7819"N	80°40'5.8808"W	6.96	128.118	0.58
2021.00	0.840	108.730	2020.96	-6.41	-4.63	6.15	1734525.01	14197361.55	39°05'41.7786"N	80°40'5.8723"W	7.70	126.983	0.84
2117.00	0.310	112.940	2116.95	-7.02	-4.96	7.05	1734525.91	14197361.22	39°05'41.7753"N	80°40'5.8608"W	8.62	125.099	0.55
2214.00	0.310	172.900	2213.95	-7.45	-5.32	7.33	1734526.18	14197360.86	39°05'41.7717"N	80°40'5.8574"W	9.05	125.979	0.32
2311.00	0.310	167.210	2310.95	-7.97	-5.84	7.42	1734526.28	14197360.35	39°05'41.7666"N	80°40'5.8563"W	9.44	128.193	0.03
2408.00	0.470	203.260	2407.95	-8.52	-6.46	7.32	1734526.18	14197359.73	39°05'41.7605"N	80°40'5.8575"W	9.76	131.421	0.29
2485.00	0.650	218.500	2484.94	-8.99	-7.09	6.92	1734525.78	14197359.09	39°05'41.7542"N	80°40'5.8626"W	9.91	135.683	0.30
2495.00	0.670	204.940	2494.94	-9.06	-7.19	6.86	1734525.72	14197359.00	39°05'41.7533"N	80°40'5.8634"W	9.94	136.322	1.57



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

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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]
2592.00	0.870	219.150	2591.93	-9.85	-8.27	6.16	1734525.02	14197357.91	39°05'41.7426"N	80°40'5.8724"W	10.31	143.333	0.28
2689.00	0.930	238.280	2688.92	-10.40	-9.26	5.02	1734523.88	14197356.93	39°05'41.7329"N	80°40'5.8868"W	10.53	151.511	0.31
2754.00	0.810	220.700	2753.91	-10.74	-9.88	4.28	1734523.13	14197356.30	39°05'41.7267"N	80°40'5.8963"W	10.77	156.606	0.45
2929.00	1.030	196.550	2928.89	-12.63	-12.33	3.02	1734521.88	14197353.86	39°05'41.7026"N	80°40'5.9123"W	12.69	166.232	0.25
2991.00	1.480	113.830	2990.88	-13.63	-13.19	3.59	1734522.45	14197353.00	39°05'41.6941"N	80°40'5.9051"W	13.67	164.751	2.73
3088.00	3.410	104.970	3087.79	-16.12	-14.44	7.53	1734526.38	14197351.75	39°05'41.6816"N	80°40'5.8553"W	16.28	152.462	2.02
3185.00	4.460	83.940	3184.56	-18.62	-14.78	14.07	1734532.92	14197351.40	39°05'41.6779"N	80°40'5.7724"W	20.41	136.427	1.82
3281.00	6.330	80.610	3280.13	-20.41	-13.53	23.00	1734541.85	14197352.66	39°05'41.6900"N	80°40'5.6590"W	26.68	120.461	1.97
3378.00	8.300	81.900	3376.34	-22.72	-11.67	35.21	1734554.05	14197354.52	39°05'41.7080"N	80°40'5.5041"W	37.09	108.335	2.04
3475.00	10.060	81.160	3472.09	-25.65	-9.38	50.51	1734569.35	14197356.80	39°05'41.7300"N	80°40'5.3098"W	51.38	100.519	1.82
3572.00	12.110	80.850	3567.28	-29.02	-6.46	68.93	1734587.76	14197359.72	39°05'41.7582"N	80°40'5.0761"W	69.23	95.353	2.11
3667.00	14.280	82.050	3659.77	-33.13	-3.25	90.37	1734609.20	14197362.93	39°05'41.7891"N	80°40'4.8039"W	90.43	92.062	2.30
3761.00	16.400	82.000	3750.41	-38.07	0.20	115.00	1734633.82	14197366.38	39°05'41.8224"N	80°40'4.4914"W	115.00	89.902	2.26
3858.00	18.320	80.620	3842.99	-43.44	4.59	143.60	1734662.41	14197370.77	39°05'41.8647"N	80°40'4.1284"W	143.68	88.170	2.02
3955.00	20.370	81.580	3934.51	-49.33	9.55	175.35	1734694.14	14197375.72	39°05'41.9126"N	80°40'3.7256"W	175.61	86.884	2.14
4053.00	21.860	85.800	4025.93	-57.38	13.38	210.42	1734729.20	14197379.55	39°05'41.9492"N	80°40'3.2806"W	210.85	86.362	2.17
4148.00	23.420	87.660	4113.61	-67.58	15.45	246.93	1734765.69	14197381.62	39°05'41.9683"N	80°40'2.8174"W	247.41	86.421	1.81
4244.00	25.420	87.470	4201.02	-79.17	17.13	286.58	1734805.32	14197383.31	39°05'41.9835"N	80°40'2.3144"W	287.09	86.578	2.08
4341.00	27.160	86.870	4287.98	-91.44	19.26	329.48	1734848.22	14197385.43	39°05'42.0030"N	80°40'1.7701"W	330.05	86.654	1.81
4438.00	29.520	87.210	4373.35	-104.50	21.63	375.47	1734894.18	14197387.81	39°05'42.0248"N	80°40'1.1868"W	376.09	86.702	2.44
4535.00	31.840	88.050	4456.77	-119.03	23.67	424.91	1734943.61	14197389.84	39°05'42.0431"N	80°40'0.5595"W	425.57	86.812	2.43
4632.00	33.760	87.060	4538.30	-134.37	25.92	477.41	1734996.08	14197392.09	39°05'42.0635"N	80°39'59.8936"W	478.11	86.892	2.06
4728.00	36.070	86.240	4617.01	-149.57	29.14	532.25	1735050.90	14197395.31	39°05'42.0933"N	80°39'59.1978"W	533.05	86.866	2.46
4825.00	38.380	86.010	4694.25	-165.30	33.11	590.79	1735109.42	14197399.28	39°05'42.1304"N	80°39'58.4551"W	591.72	86.792	2.39
4921.00	40.220	85.360	4768.53	-181.15	37.69	651.42	1735170.03	14197403.86	39°05'42.1735"N	80°39'57.6859"W	652.51	86.688	1.96
5018.00	39.540	85.390	4842.97	-197.04	42.71	713.42	1735232.00	14197408.87	39°05'42.2208"N	80°39'56.8994"W	714.69	86.574	0.70
5115.00	38.360	83.530	4918.41	-211.69	48.58	774.10	1735292.66	14197414.74	39°05'42.2767"N	80°39'56.1293"W	775.63	86.409	1.71
5215.00	38.470	83.610	4996.76	-225.67	55.54	835.85	1735354.38	14197421.70	39°05'42.3432"N	80°39'55.3459"W	837.69	86.198	0.12
5311.00	39.340	85.340	5071.47	-240.17	61.34	895.85	1735414.36	14197427.49	39°05'42.3983"N	80°39'54.5845"W	897.95	86.083	1.45
5406.00	39.990	87.850	5144.60	-256.91	64.93	956.37	1735474.86	14197431.08	39°05'42.4316"N	80°39'53.8167"W	958.58	86.116	1.82



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Van Wie 1221 N-5H awp Proj: 26317'

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Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-5H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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]
5502.00	40.780	88.160	5217.72	-275.55	67.09	1018.54	1735537.00	14197433.25	39°05'42.4507"N	80°39'53.0281"W	1020.74	86.231	0.85
5598.00	42.040	88.200	5289.72	-294.76	69.11	1082.00	1735600.44	14197435.26	39°05'42.4683"N	80°39'52.2231"W	1084.21	86.345	1.31
5687.00	42.900	88.380	5355.37	-313.05	70.90	1142.07	1735660.48	14197437.05	39°05'42.4839"N	80°39'51.4611"W	1144.27	86.448	0.98
5783.00	42.920	88.420	5425.68	-333.06	72.73	1207.40	1735725.79	14197438.88	39°05'42.4995"N	80°39'50.6323"W	1209.59	86.553	0.04
5879.00	41.930	87.740	5496.55	-352.55	74.89	1272.13	1735790.49	14197441.04	39°05'42.5186"N	80°39'49.8113"W	1274.33	86.631	1.14
5975.00	40.830	86.230	5568.58	-370.49	78.22	1335.50	1735853.83	14197444.37	39°05'42.5491"N	80°39'49.0074"W	1337.79	86.648	1.55
6071.00	39.670	84.550	5641.85	-386.37	83.19	1397.32	1735915.63	14197449.34	39°05'42.5960"N	80°39'48.2230"W	1399.79	86.593	1.65
6172.00	39.880	85.800	5719.48	-402.66	88.63	1461.71	1735979.99	14197454.77	39°05'42.6474"N	80°39'47.4061"W	1464.39	86.530	0.82
6269.00	38.740	86.600	5794.53	-419.21	92.71	1523.02	1736041.28	14197458.85	39°05'42.6854"N	80°39'46.6282"W	1525.84	86.517	1.29
6365.00	39.320	87.380	5869.10	-436.30	95.88	1583.39	1736101.63	14197462.02	39°05'42.7146"N	80°39'45.8624"W	1586.29	86.535	0.79
6462.00	40.960	88.240	5943.25	-454.84	98.26	1645.87	1736164.09	14197464.40	39°05'42.7358"N	80°39'45.0697"W	1648.80	86.583	1.78
6559.00	41.570	86.860	6016.17	-473.52	101.00	1709.78	1736227.97	14197467.14	39°05'42.7605"N	80°39'44.2589"W	1712.77	86.619	1.13
6656.00	42.330	87.380	6088.31	-491.99	104.25	1774.54	1736292.71	14197470.39	39°05'42.7903"N	80°39'43.4374"W	1777.60	86.638	0.86
6752.00	41.340	86.180	6159.84	-509.87	107.84	1838.47	1736356.61	14197473.98	39°05'42.8235"N	80°39'42.6264"W	1841.63	86.643	1.33
6780.00	40.920	85.970	6180.93	-514.80	109.10	1856.85	1736374.98	14197475.24	39°05'42.8353"N	80°39'42.3933"W	1860.05	86.637	1.58
6885.00	40.610	84.050	6260.46	-531.90	115.06	1925.14	1736443.25	14197481.20	39°05'42.8917"N	80°39'41.5268"W	1928.58	86.580	1.23
6981.00	40.640	82.880	6333.32	-545.84	122.18	1987.24	1736505.32	14197488.31	39°05'42.9597"N	80°39'40.7388"W	1990.99	86.482	0.79
7077.00	41.090	74.700	6405.97	-554.79	134.39	2048.73	1736566.79	14197500.51	39°05'43.0781"N	80°39'39.9582"W	2053.14	86.247	5.59
7173.00	41.350	65.450	6478.25	-554.23	155.91	2108.06	1736626.10	14197522.03	39°05'43.2886"N	80°39'39.2047"W	2113.82	85.770	6.35
7270.00	41.550	56.010	6551.03	-543.27	187.23	2163.94	1736681.95	14197553.34	39°05'43.5962"N	80°39'38.4945"W	2172.02	85.055	6.44
7366.00	43.730	48.820	6621.68	-522.96	226.91	2215.34	1736733.34	14197593.00	39°05'43.9864"N	80°39'37.8406"W	2226.93	84.152	5.56
7462.00	46.080	40.590	6689.73	-493.36	275.06	2262.86	1736780.83	14197641.13	39°05'44.4606"N	80°39'37.2356"W	2279.52	83.069	6.52
7559.00	49.170	34.520	6755.13	-454.27	331.87	2306.42	1736824.38	14197697.92	39°05'45.0204"N	80°39'36.6804"W	2330.17	81.812	5.61
7655.00	52.660	27.840	6815.69	-406.96	395.60	2344.86	1736862.80	14197761.63	39°05'45.6489"N	80°39'36.1898"W	2378.00	80.424	6.51
7752.00	56.340	22.510	6872.04	-350.72	467.05	2378.35	1736896.28	14197833.05	39°05'46.3539"N	80°39'35.7616"W	2423.78	78.890	5.86
7848.00	59.990	16.340	6922.70	-287.21	543.92	2405.37	1736923.29	14197909.89	39°05'47.1127"N	80°39'35.4153"W	2466.10	77.258	6.65
7945.00	63.720	13.370	6968.46	-216.54	626.58	2427.25	1736945.16	14197992.51	39°05'47.9288"N	80°39'35.1338"W	2506.82	75.526	4.70
8041.00	68.500	8.610	7007.34	-140.87	712.70	2443.91	1736961.81	14198078.60	39°05'48.7794"N	80°39'34.9185"W	2545.71	73.742	6.73
8138.00	72.820	4.880	7039.47	-58.75	803.55	2454.61	1736972.51	14198169.42	39°05'49.6770"N	80°39'34.7783"W	2582.79	71.873	5.74
8234.00	76.930	0.780	7064.52	26.99	896.07	2459.16	1736977.05	14198261.90	39°05'50.5913"N	80°39'34.7163"W	2617.33	69.979	5.94



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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]
8330.00	81.350	356.430	7082.61	116.60	990.28	2456.83	1736974.73	14198356.07	39°05'51.5225"N	80°39'34.7413"W	2648.90	68.047	6.40
8427.00	84.790	351.910	7094.32	210.16	1086.03	2447.04	1736964.95	14198451.79	39°05'52.4692"N	80°39'34.8609"W	2677.22	66.068	5.83
8523.00	84.730	348.830	7103.09	304.35	1180.27	2431.05	1736948.96	14198545.99	39°05'53.4013"N	80°39'35.0593"W	2702.42	64.104	3.20
8620.00	88.000	349.210	7109.24	400.09	1275.29	2412.62	1736930.53	14198640.97	39°05'54.3411"N	80°39'35.2886"W	2728.94	62.139	3.39
8716.00	90.060	349.100	7110.87	495.00	1369.56	2394.56	1736912.48	14198735.20	39°05'55.2735"N	80°39'35.5132"W	2758.55	60.233	2.15
8813.00	89.910	345.350	7110.89	591.33	1464.14	2373.11	1736891.04	14198829.75	39°05'56.2091"N	80°39'35.7807"W	2788.44	58.327	3.87
8910.00	89.510	342.680	7111.38	688.14	1557.38	2346.41	1736864.35	14198922.95	39°05'57.1316"N	80°39'36.1151"W	2816.21	56.427	2.78
9006.00	89.290	341.640	7112.39	784.10	1648.76	2317.00	1736834.95	14199014.29	39°05'58.0359"N	80°39'36.4838"W	2843.74	54.565	1.11
9102.00	89.170	340.710	7113.68	880.08	1739.61	2286.02	1736803.99	14199105.11	39°05'58.9350"N	80°39'36.8724"W	2872.66	52.730	0.98
9198.00	89.080	340.680	7115.14	976.07	1830.20	2254.29	1736772.27	14199195.67	39°05'59.8316"N	80°39'37.2706"W	2903.70	50.928	0.10
9295.00	88.770	339.730	7116.96	1073.05	1921.46	2221.45	1736739.44	14199286.88	39°06'0.7347"N	80°39'37.6829"W	2937.14	49.142	1.03
9392.00	89.320	341.110	7118.58	1170.03	2012.83	2188.94	1736706.95	14199378.22	39°06'1.6390"N	80°39'38.0908"W	2973.71	47.400	1.53
9487.00	89.510	341.230	7119.55	1265.02	2102.74	2158.28	1736676.30	14199468.10	39°06'2.5288"N	80°39'38.4755"W	3013.26	45.747	0.24
9584.00	89.480	340.800	7120.40	1362.02	2194.46	2126.73	1736644.76	14199559.78	39°06'3.4365"N	80°39'38.8714"W	3055.92	44.102	0.44
9681.00	89.510	340.590	7121.26	1459.01	2286.00	2094.66	1736612.70	14199651.29	39°06'4.3425"N	80°39'39.2738"W	3100.55	42.499	0.22
9776.00	89.510	340.760	7122.07	1554.01	2375.65	2063.23	1736581.28	14199740.90	39°06'5.2297"N	80°39'39.6683"W	3146.52	40.974	0.18
9872.00	89.880	341.100	7122.58	1650.01	2466.38	2031.86	1736549.92	14199831.59	39°06'6.1276"N	80°39'40.0619"W	3195.54	39.483	0.52
9969.00	89.600	340.710	7123.02	1747.00	2558.04	2000.13	1736518.21	14199923.22	39°06'7.0347"N	80°39'40.4601"W	3247.17	38.022	0.49
10065.00	89.690	339.700	7123.62	1843.00	2648.36	1967.62	1736485.71	14200013.51	39°06'7.9287"N	80°39'40.8682"W	3299.30	36.611	1.06
10160.00	89.690	340.650	7124.13	1937.99	2737.73	1935.40	1736453.50	14200102.84	39°06'8.8132"N	80°39'41.2727"W	3352.75	35.258	1.00
10257.00	89.660	340.500	7124.68	2034.99	2829.21	1903.14	1736421.26	14200194.28	39°06'9.7185"N	80°39'41.6776"W	3409.75	33.928	0.16
10354.00	89.820	340.660	7125.12	2131.99	2920.69	1870.89	1736389.02	14200285.72	39°06'10.6238"N	80°39'42.0823"W	3468.52	32.642	0.23
10450.00	89.720	341.320	7125.51	2227.99	3011.45	1839.62	1736357.76	14200376.45	39°06'11.5221"N	80°39'42.4747"W	3528.89	31.420	0.70
10546.00	89.600	340.910	7126.08	2323.98	3102.28	1808.55	1736326.70	14200467.25	39°06'12.4210"N	80°39'42.8646"W	3590.96	30.241	0.44
10641.00	89.450	340.780	7126.86	2418.98	3192.02	1777.38	1736295.54	14200556.95	39°06'13.3091"N	80°39'43.2558"W	3653.50	29.110	0.21
10738.00	89.140	339.900	7128.06	2515.97	3283.36	1744.75	1736262.92	14200648.25	39°06'14.2130"N	80°39'43.6654"W	3718.14	27.986	0.96
10834.00	89.420	340.000	7129.26	2611.95	3373.53	1711.84	1736230.03	14200738.39	39°06'15.1055"N	80°39'44.0786"W	3783.00	26.905	0.31
10931.00	89.450	340.800	7130.22	2708.95	3464.91	1679.30	1736197.50	14200829.73	39°06'16.0098"N	80°39'44.4870"W	3850.40	25.858	0.83
11028.00	89.510	340.790	7131.10	2805.94	3556.50	1647.39	1736165.61	14200921.29	39°06'16.9163"N	80°39'44.8875"W	3919.52	24.854	0.06
11123.00	89.450	340.080	7131.96	2900.94	3646.01	1615.58	1736133.81	14201010.77	39°06'17.8022"N	80°39'45.2868"W	3987.92	23.899	0.75

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11220.00	89.480	340.990	7132.87	2997.93	3737.47	1583.26	1736101.50	14201102.18	39°06'18.7073"N	80°39'45.6925"W	4058.98	22.958	0.94
11317.00	89.480	341.000	7133.75	3094.93	3829.17	1551.67	1736069.92	14201193.85	39°06'19.6148"N	80°39'46.0889"W	4131.62	22.059	0.01
11413.00	89.350	340.790	7134.73	3190.92	3919.88	1520.25	1736038.52	14201284.53	39°06'20.5125"N	80°39'46.4832"W	4204.36	21.198	0.26
11509.00	89.380	340.250	7135.79	3286.91	4010.38	1488.24	1736006.52	14201374.99	39°06'21.4082"N	80°39'46.8850"W	4277.62	20.360	0.56
11605.00	89.450	340.590	7136.77	3382.91	4100.82	1456.07	1735974.36	14201465.40	39°06'22.3033"N	80°39'47.2889"W	4351.66	19.548	0.36
11702.00	89.970	343.360	7137.27	3479.87	4193.05	1426.06	1735944.36	14201557.59	39°06'23.2159"N	80°39'47.6652"W	4428.92	18.783	2.91
11799.00	89.600	342.090	7137.63	3576.80	4285.68	1397.26	1735915.57	14201650.18	39°06'24.1325"N	80°39'48.0263"W	4507.70	18.057	1.36
11895.00	89.630	340.310	7138.27	3672.78	4376.55	1366.32	1735884.65	14201741.01	39°06'25.0318"N	80°39'48.4144"W	4584.87	17.338	1.85
11991.00	89.850	339.810	7138.71	3768.78	4466.79	1333.58	1735851.92	14201831.22	39°06'25.9249"N	80°39'48.8255"W	4661.62	16.623	0.57
12087.00	90.000	339.150	7138.84	3864.76	4556.70	1299.93	1735818.28	14201921.09	39°06'26.8148"N	80°39'49.2482"W	4738.49	15.922	0.71
12183.00	89.630	338.460	7139.15	3960.71	4646.20	1265.22	1735783.59	14202010.56	39°06'27.7007"N	80°39'49.6843"W	4815.39	15.233	0.82
12279.00	89.450	338.630	7139.92	4056.65	4735.55	1230.11	1735748.49	14202099.87	39°06'28.5850"N	80°39'50.1255"W	4892.71	14.561	0.26
12374.00	89.510	338.480	7140.78	4151.59	4823.97	1195.38	1735713.77	14202188.26	39°06'29.4602"N	80°39'50.5620"W	4969.87	13.918	0.17
12471.00	89.660	338.940	7141.48	4248.53	4914.35	1160.16	1735678.57	14202278.60	39°06'30.3548"N	80°39'51.0045"W	5049.43	13.283	0.50
12567.00	89.780	339.040	7141.95	4344.50	5003.96	1125.74	1735644.16	14202368.18	39°06'31.2418"N	80°39'51.4370"W	5129.03	12.679	0.16
12663.00	89.510	338.640	7142.55	4440.45	5093.49	1091.09	1735609.52	14202457.67	39°06'32.1279"N	80°39'51.8724"W	5209.04	12.091	0.50
12760.00	89.540	338.920	7143.35	4537.40	5183.91	1055.98	1735574.43	14202548.06	39°06'33.0229"N	80°39'52.3135"W	5290.37	11.514	0.29
12856.00	89.630	339.880	7144.04	4633.38	5273.77	1022.21	1735540.66	14202637.88	39°06'33.9122"N	80°39'52.7378"W	5371.92	10.970	1.00
12951.00	90.000	342.160	7144.35	4728.37	5363.59	991.31	1735509.78	14202727.67	39°06'34.8012"N	80°39'53.1256"W	5454.43	10.471	2.43
13048.00	89.660	340.120	7144.64	4825.36	5455.38	959.96	1735478.44	14202819.42	39°06'35.7096"N	80°39'53.5190"W	5539.20	9.980	2.13
13145.00	90.090	340.660	7144.85	4922.35	5546.75	927.40	1735445.90	14202910.76	39°06'36.6138"N	80°39'53.9277"W	5623.75	9.492	0.71
13241.00	89.450	339.400	7145.24	5018.35	5636.98	894.62	1735413.13	14203000.95	39°06'37.5068"N	80°39'54.3395"W	5707.53	9.018	1.47
13337.00	89.600	339.610	7146.03	5114.33	5726.90	861.01	1735379.53	14203090.84	39°06'38.3968"N	80°39'54.7617"W	5791.26	8.550	0.27
13433.00	89.410	339.490	7146.86	5210.31	5816.85	827.46	1735346.00	14203180.75	39°06'39.2870"N	80°39'55.1830"W	5875.41	8.096	0.23
13530.00	89.750	340.130	7147.57	5307.30	5907.88	793.99	1735312.54	14203271.75	39°06'40.1880"N	80°39'55.6034"W	5961.00	7.654	0.75
13626.00	89.660	339.990	7148.07	5403.29	5998.13	761.25	1735279.81	14203361.96	39°06'41.0812"N	80°39'56.0145"W	6046.24	7.233	0.17
13722.00	89.750	340.540	7148.56	5499.29	6088.49	728.83	1735247.41	14203452.28	39°06'41.9754"N	80°39'56.4216"W	6131.95	6.826	0.58
13819.00	90.150	340.690	7148.65	5596.29	6179.99	696.64	1735215.22	14203543.75	39°06'42.8810"N	80°39'56.8258"W	6219.13	6.432	0.44
13914.00	89.600	339.590	7148.85	5691.28	6269.33	664.36	1735182.96	14203633.06	39°06'43.7652"N	80°39'57.2310"W	6304.44	6.049	1.29
14011.00	89.540	340.050	7149.58	5788.27	6360.38	630.90	1735149.52	14203724.07	39°06'44.6663"N	80°39'57.6513"W	6391.59	5.665	0.48

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Van Wie 1221 N-5H awp Proj: 26317'

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Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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]
14108.00	90.680	341.840	7149.39	5885.26	6452.06	599.24	1735117.86	14203815.71	39°06'45.5736"N	80°39'58.0488"W	6479.82	5.306	2.19
14205.00	89.630	339.790	7149.13	5982.26	6543.66	567.36	1735086.00	14203907.28	39°06'46.4802"N	80°39'58.4489"W	6568.21	4.955	2.37
14301.00	89.570	339.810	7149.80	6078.25	6633.76	534.22	1735052.87	14203997.34	39°06'47.3718"N	80°39'58.8652"W	6655.23	4.604	0.07
14398.00	90.000	340.170	7150.17	6175.24	6724.90	501.02	1735019.69	14204088.44	39°06'48.2739"N	80°39'59.2821"W	6743.54	4.261	0.58
14495.00	89.570	339.620	7150.53	6272.23	6815.99	467.68	1734986.36	14204179.50	39°06'49.1754"N	80°39'59.7008"W	6832.01	3.925	0.72
14589.00	91.260	342.690	7149.85	6366.21	6904.93	437.32	1734956.01	14204268.41	39°06'50.0556"N	80°40'0.0818"W	6918.77	3.624	3.73
14685.00	90.030	339.480	7148.77	6462.19	6995.73	406.21	1734924.91	14204359.17	39°06'50.9541"N	80°40'0.4724"W	7007.51	3.323	3.58
14782.00	90.000	338.550	7148.74	6559.15	7086.29	371.47	1734890.19	14204449.70	39°06'51.8505"N	80°40'0.9089"W	7096.02	3.001	0.96
14878.00	90.220	339.800	7148.56	6655.12	7176.02	337.34	1734856.07	14204539.39	39°06'52.7386"N	80°40'1.3377"W	7183.95	2.691	1.32
14974.00	90.000	338.710	7148.37	6751.09	7265.80	303.34	1734822.08	14204629.13	39°06'53.6271"N	80°40'1.7649"W	7272.12	2.391	1.16
15071.00	90.000	336.220	7148.37	6847.94	7355.38	266.17	1734784.92	14204718.68	39°06'54.5139"N	80°40'2.2324"W	7360.20	2.072	2.57
15167.00	90.060	337.070	7148.32	6943.71	7443.52	228.11	1734746.88	14204806.78	39°06'55.3864"N	80°40'2.7111"W	7447.01	1.755	0.89
15264.00	89.820	340.770	7148.43	7040.66	7534.01	193.23	1734712.01	14204897.24	39°06'56.2821"N	80°40'3.1495"W	7536.49	1.469	3.82
15361.00	89.510	340.700	7148.99	7137.66	7625.58	161.23	1734680.02	14204988.77	39°06'57.1882"N	80°40'3.5513"W	7627.28	1.211	0.33
15457.00	89.660	341.430	7149.69	7233.65	7716.38	130.08	1734648.89	14205079.53	39°06'58.0868"N	80°40'3.9423"W	7717.47	0.966	0.78
15553.00	89.380	340.560	7150.49	7329.64	7807.14	98.82	1734617.64	14205170.26	39°06'58.9851"N	80°40'4.3347"W	7807.77	0.725	0.95
15650.00	89.720	341.140	7151.25	7426.64	7898.77	67.00	1734585.83	14205261.85	39°06'59.8918"N	80°40'4.7341"W	7899.05	0.486	0.69
15747.00	87.940	340.040	7153.24	7523.61	7990.23	34.77	1734553.62	14205353.28	39°07'0.7970"N	80°40'5.1388"W	7990.31	0.249	2.16
15844.00	90.220	341.160	7154.79	7620.59	8081.71	2.56	1734521.42	14205444.72	39°07'1.7023"N	80°40'5.5432"W	8081.71	0.018	2.62
15941.00	90.000	341.120	7154.61	7717.59	8173.50	-28.80	1734490.07	14205536.47	39°07'2.6106"N	80°40'5.9368"W	8173.55	359.798	0.23
16038.00	89.630	340.110	7154.92	7814.58	8265.00	-60.99	1734457.89	14205627.94	39°07'3.5162"N	80°40'6.3411"W	8265.22	359.577	1.11
16135.00	90.180	341.040	7155.08	7911.58	8356.47	-93.25	1734425.64	14205719.38	39°07'4.4215"N	80°40'6.7461"W	8356.99	359.361	1.11
16231.00	89.780	341.440	7155.11	8007.58	8447.37	-124.13	1734394.78	14205810.24	39°07'5.3210"N	80°40'7.1336"W	8448.29	359.158	0.59
16328.00	91.350	343.930	7154.16	8104.49	8539.96	-152.99	1734365.93	14205902.80	39°07'6.2372"N	80°40'7.4956"W	8541.33	358.974	3.03
16425.00	89.480	340.510	7153.45	8201.43	8632.31	-182.61	1734336.33	14205995.11	39°07'7.1510"N	80°40'7.8670"W	8634.24	358.788	4.02
16521.00	89.420	339.450	7154.38	8297.42	8722.50	-215.47	1734303.47	14206085.26	39°07'8.0436"N	80°40'8.2798"W	8725.16	358.585	1.11
16618.00	89.780	341.200	7155.05	8394.41	8813.83	-248.13	1734270.83	14206176.56	39°07'8.9475"N	80°40'8.6900"W	8817.33	358.387	1.84
16714.00	89.570	340.950	7155.60	8490.41	8904.64	-279.26	1734239.71	14206267.33	39°07'9.8461"N	80°40'9.0808"W	8909.02	358.204	0.34
16811.00	89.780	341.480	7156.15	8587.40	8996.47	-310.50	1734208.49	14206359.13	39°07'10.7549"N	80°40'9.4729"W	9001.83	358.023	0.59
16908.00	89.510	341.090	7156.75	8684.39	9088.34	-341.62	1734177.37	14206450.96	39°07'11.6640"N	80°40'9.8635"W	9094.76	357.847	0.49



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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]
17005.00	89.510	340.690	7157.58	8781.39	9179.99	-373.37	1734145.63	14206542.58	39°07'12.5710"N	80°40'10.2622"W	9187.58	357.671	0.41
17101.00	90.770	342.220	7157.34	8877.37	9271.00	-403.91	1734115.11	14206633.55	39°07'13.4717"N	80°40'10.6454"W	9279.80	357.505	2.06
17196.00	89.820	341.280	7156.85	8972.35	9361.22	-433.65	1734085.38	14206723.73	39°07'14.3644"N	80°40'11.0187"W	9371.26	357.348	1.41
17293.00	89.570	340.520	7157.37	9069.34	9452.88	-465.39	1734053.65	14206815.36	39°07'15.2715"N	80°40'11.4172"W	9464.33	357.181	0.82
17390.00	89.690	340.900	7158.00	9166.34	9544.43	-497.44	1734021.62	14206906.87	39°07'16.1775"N	80°40'11.8195"W	9557.39	357.017	0.41
17487.00	89.630	340.690	7158.57	9263.34	9636.03	-529.34	1733989.72	14206998.44	39°07'17.0840"N	80°40'12.2202"W	9650.56	356.856	0.23
17583.00	90.120	341.300	7158.78	9359.33	9726.80	-560.61	1733958.47	14207089.17	39°07'17.9823"N	80°40'12.6127"W	9742.94	356.701	0.82
17680.00	90.120	342.580	7158.58	9456.30	9819.02	-590.68	1733928.41	14207181.35	39°07'18.8948"N	80°40'12.9900"W	9836.77	356.557	1.32
17777.00	89.540	340.800	7158.87	9553.28	9911.10	-621.15	1733897.95	14207273.40	39°07'19.8060"N	80°40'13.3724"W	9930.55	356.414	1.93
17873.00	90.490	342.100	7158.84	9649.27	10002.11	-651.69	1733867.43	14207364.37	39°07'20.7066"N	80°40'13.7557"W	10023.32	356.272	1.68
17969.00	89.570	340.740	7158.79	9745.25	10093.11	-682.28	1733836.85	14207455.33	39°07'21.6071"N	80°40'14.1396"W	10116.14	356.133	1.71
18065.00	89.510	339.800	7159.56	9841.25	10183.47	-714.68	1733804.46	14207545.66	39°07'22.5014"N	80°40'14.5466"W	10208.51	355.986	0.98
18162.00	89.720	340.110	7160.21	9938.24	10274.59	-747.93	1733771.22	14207636.74	39°07'23.4032"N	80°40'14.9643"W	10301.77	355.837	0.39
18259.00	89.820	341.030	7160.60	10035.24	10366.06	-780.20	1733738.97	14207728.18	39°07'24.3084"N	80°40'15.3695"W	10395.38	355.696	0.95
18353.00	89.970	340.430	7160.78	10129.24	10454.79	-811.22	1733707.96	14207816.88	39°07'25.1866"N	80°40'15.7591"W	10486.22	355.563	0.66
18448.00	89.540	339.380	7161.18	10224.23	10544.01	-843.86	1733675.33	14207906.06	39°07'26.0695"N	80°40'16.1691"W	10577.72	355.424	1.19
18545.00	90.120	340.840	7161.47	10321.22	10635.22	-876.86	1733642.35	14207997.23	39°07'26.9722"N	80°40'16.5837"W	10671.31	355.287	1.62
18641.00	89.600	339.540	7161.70	10417.22	10725.54	-909.39	1733609.83	14208087.51	39°07'27.8660"N	80°40'16.9923"W	10764.02	355.154	1.46
18738.00	89.450	339.470	7162.51	10514.20	10816.39	-943.35	1733575.88	14208178.33	39°07'28.7652"N	80°40'17.4191"W	10857.45	355.016	0.17
18835.00	89.540	338.610	7163.36	10611.16	10906.97	-978.05	1733541.19	14208268.88	39°07'29.6617"N	80°40'17.8552"W	10950.73	354.876	0.89
18932.00	89.410	339.740	7164.25	10708.12	10997.63	-1012.53	1733506.72	14208359.50	39°07'30.5590"N	80°40'18.2886"W	11044.14	354.740	1.17
19028.00	90.180	341.680	7164.60	10804.12	11088.23	-1044.24	1733475.03	14208450.07	39°07'31.4556"N	80°40'18.6868"W	11137.30	354.620	2.17
19125.00	89.540	339.780	7164.83	10901.11	11179.79	-1076.25	1733443.03	14208541.59	39°07'32.3618"N	80°40'19.0888"W	11231.48	354.501	2.07
19221.00	89.480	339.830	7165.65	10997.10	11269.89	-1109.39	1733409.90	14208631.65	39°07'33.2534"N	80°40'19.5052"W	11324.36	354.378	0.08
19317.00	89.600	339.660	7166.42	11093.08	11359.95	-1142.63	1733376.68	14208721.68	39°07'34.1447"N	80°40'19.9228"W	11417.27	354.256	0.22
19414.00	89.570	339.730	7167.13	11190.07	11450.92	-1176.29	1733343.03	14208812.61	39°07'35.0451"N	80°40'20.3458"W	11511.18	354.135	0.08
19511.00	90.030	340.790	7167.47	11287.07	11542.22	-1209.05	1733310.29	14208903.87	39°07'35.9486"N	80°40'20.7573"W	11605.37	354.020	1.19
19608.00	90.650	341.250	7166.89	11384.06	11633.94	-1240.60	1733278.75	14208995.56	39°07'36.8563"N	80°40'21.1534"W	11699.90	353.913	0.80
19704.00	89.420	339.320	7166.83	11480.05	11724.31	-1272.98	1733246.38	14209085.89	39°07'37.7506"N	80°40'21.5602"W	11793.21	353.803	2.38
19801.00	89.540	338.860	7167.71	11577.02	11814.91	-1307.60	1733211.78	14209176.46	39°07'38.6474"N	80°40'21.9953"W	11887.05	353.685	0.49



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19898.00	89.380	339.300	7168.63	11673.98	11905.52	-1342.23	1733177.16	14209267.03	39°07'39.5441"N	80°40'22.4307"W	11980.94	353.568	0.48
19994.00	88.950	338.960	7170.03	11769.94	11995.21	-1376.43	1733142.97	14209356.69	39°07'40.4318"N	80°40'22.8605"W	12073.92	353.454	0.57
20090.00	89.230	339.540	7171.55	11865.90	12084.97	-1410.43	1733108.98	14209446.41	39°07'41.3202"N	80°40'23.2880"W	12167.00	353.343	0.67
20187.00	90.030	339.590	7172.18	11962.88	12175.86	-1444.30	1733075.13	14209537.27	39°07'42.2198"N	80°40'23.7135"W	12261.22	353.235	0.83
20284.00	88.460	339.920	7173.45	12059.86	12266.86	-1477.86	1733041.58	14209628.23	39°07'43.1203"N	80°40'24.1353"W	12355.56	353.130	1.65
20379.00	88.060	339.810	7176.34	12154.81	12356.01	-1510.55	1733008.90	14209717.35	39°07'44.0027"N	80°40'24.5460"W	12448.00	353.030	0.44
20476.00	90.060	339.930	7177.93	12251.79	12447.07	-1543.92	1732975.54	14209808.37	39°07'44.9038"N	80°40'24.9654"W	12542.46	352.929	2.07
20572.00	89.780	339.280	7178.06	12347.77	12537.05	-1577.38	1732942.10	14209898.32	39°07'45.7944"N	80°40'25.3858"W	12635.89	352.829	0.74
20668.00	89.820	339.960	7178.40	12443.76	12627.04	-1610.81	1732908.68	14209988.27	39°07'46.6850"N	80°40'25.8060"W	12729.37	352.730	0.71
20764.00	90.710	340.850	7177.96	12539.75	12717.48	-1643.00	1732876.50	14210078.67	39°07'47.5800"N	80°40'26.2104"W	12823.17	352.639	1.31
20861.00	89.540	340.800	7177.74	12636.75	12809.09	-1674.86	1732844.65	14210170.25	39°07'48.4867"N	80°40'26.6105"W	12918.13	352.551	1.21
20958.00	90.120	341.270	7178.03	12733.75	12900.83	-1706.39	1732813.14	14210261.95	39°07'49.3944"N	80°40'27.0064"W	13013.19	352.465	0.77
21055.00	89.480	340.820	7178.37	12830.74	12992.57	-1737.90	1732781.65	14210353.66	39°07'50.3023"N	80°40'27.4020"W	13108.28	352.381	0.81
21151.00	90.060	339.980	7178.76	12926.74	13083.00	-1770.10	1732749.46	14210444.06	39°07'51.1973"N	80°40'27.8066"W	13202.20	352.295	1.06
21248.00	90.430	336.990	7178.34	13023.66	13173.23	-1805.67	1732713.90	14210534.25	39°07'52.0903"N	80°40'28.2538"W	13296.41	352.195	3.11
21345.00	89.200	340.410	7178.65	13120.59	13263.59	-1840.90	1732678.68	14210624.57	39°07'52.9847"N	80°40'28.6968"W	13390.73	352.098	3.75
21442.00	89.050	341.290	7180.14	13217.58	13355.21	-1872.71	1732646.88	14210716.16	39°07'53.8914"N	80°40'29.0964"W	13485.87	352.018	0.92
21539.00	89.140	341.580	7181.67	13314.56	13447.15	-1903.59	1732616.01	14210808.06	39°07'54.8012"N	80°40'29.4841"W	13581.22	351.943	0.31
21636.00	89.410	341.350	7182.89	13411.54	13539.11	-1934.42	1732585.19	14210899.99	39°07'55.7112"N	80°40'29.8712"W	13676.61	351.869	0.37
21732.00	89.200	341.680	7184.06	13507.52	13630.15	-1964.86	1732554.77	14210990.99	39°07'56.6121"N	80°40'30.2533"W	13771.05	351.797	0.41
21827.00	89.170	342.040	7185.41	13602.48	13720.42	-1994.43	1732525.21	14211081.23	39°07'57.5053"N	80°40'30.6245"W	13864.62	351.729	0.38
21924.00	89.380	340.770	7186.64	13699.46	13812.35	-2025.36	1732494.29	14211173.12	39°07'58.4150"N	80°40'31.0128"W	13960.05	351.658	1.33
22021.00	90.120	342.330	7187.06	13796.44	13904.36	-2056.06	1732463.61	14211265.09	39°07'59.3255"N	80°40'31.3982"W	14055.55	351.589	1.78
22116.00	89.170	341.200	7187.65	13891.42	13994.58	-2085.78	1732433.89	14211355.28	39°08'0.2183"N	80°40'31.7713"W	14149.17	351.523	1.55
22213.00	89.350	341.100	7188.90	13988.41	14086.37	-2117.12	1732402.57	14211447.03	39°08'1.1266"N	80°40'32.1648"W	14244.58	351.453	0.21
22310.00	90.150	336.160	7189.33	14085.32	14176.68	-2152.46	1732367.25	14211537.30	39°08'2.0204"N	80°40'32.6092"W	14339.15	351.367	5.16
22406.00	90.550	339.510	7188.74	14181.19	14265.57	-2188.67	1732331.05	14211626.16	39°08'2.9002"N	80°40'33.0647"W	14432.49	351.278	3.51
22503.00	89.290	340.980	7188.87	14278.19	14356.85	-2221.45	1732298.28	14211717.41	39°08'3.8037"N	80°40'33.4766"W	14527.70	351.204	2.00
22599.00	89.450	341.510	7189.93	14374.18	14447.75	-2252.32	1732267.43	14211808.27	39°08'4.7031"N	80°40'33.8642"W	14622.26	351.139	0.58
22694.00	87.350	338.950	7192.58	14469.12	14537.10	-2284.43	1732235.32	14211897.59	39°08'5.5874"N	80°40'34.2677"W	14715.50	351.069	3.48



Actual Wellpath Report

Van Wie 1221 N-5H awp Proj: 26317'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-5H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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]
22791.00	90.490	342.110	7194.41	14566.08	14628.52	-2316.75	1732203.02	14211988.97	39°08'6.4921"N	80°40'34.6737"W	14810.84	351.001	4.59
22888.00	90.090	342.020	7193.92	14663.05	14720.80	-2346.62	1732173.16	14212081.21	39°08'7.4053"N	80°40'35.0486"W	14906.67	350.943	0.42
22985.00	89.690	342.210	7194.11	14760.01	14813.12	-2376.41	1732143.38	14212173.49	39°08'8.3187"N	80°40'35.4225"W	15002.52	350.886	0.46
23082.00	89.660	341.740	7194.66	14856.98	14905.35	-2406.42	1732113.38	14212265.69	39°08'9.2314"N	80°40'35.7992"W	15098.36	350.829	0.49
23177.00	90.490	342.290	7194.53	14951.95	14995.71	-2435.75	1732084.06	14212356.01	39°08'10.1255"N	80°40'36.1674"W	15192.24	350.774	1.05
23274.00	88.890	341.170	7195.06	15048.92	15087.81	-2466.16	1732053.67	14212448.08	39°08'11.0369"N	80°40'36.5491"W	15288.04	350.717	2.01
23370.00	89.540	342.030	7196.37	15144.90	15178.90	-2496.46	1732023.38	14212539.13	39°08'11.9382"N	80°40'36.9295"W	15382.82	350.660	1.12
23467.00	89.320	340.850	7197.34	15241.88	15270.85	-2527.33	1731992.52	14212631.04	39°08'12.8481"N	80°40'37.3172"W	15478.57	350.603	1.24
23564.00	89.200	340.990	7198.59	15338.87	15362.51	-2559.04	1731960.82	14212722.67	39°08'13.7552"N	80°40'37.7154"W	15574.19	350.543	0.19
23661.00	89.480	342.380	7199.71	15435.84	15454.59	-2589.52	1731930.36	14212814.71	39°08'14.6663"N	80°40'38.0981"W	15670.03	350.488	1.46
23756.00	89.260	341.320	7200.75	15530.81	15544.85	-2619.11	1731900.78	14212904.94	39°08'15.5595"N	80°40'38.4696"W	15763.95	350.436	1.14
23853.00	90.280	341.240	7201.14	15627.80	15636.72	-2650.24	1731869.66	14212996.77	39°08'16.4686"N	80°40'38.8605"W	15859.72	350.380	1.05
23950.00	89.540	340.300	7201.29	15724.80	15728.31	-2682.19	1731837.73	14213088.32	39°08'17.3749"N	80°40'39.2618"W	15955.37	350.322	1.23
24047.00	89.570	340.970	7202.05	15821.80	15819.81	-2714.35	1731805.58	14213179.80	39°08'18.2805"N	80°40'39.6659"W	16050.99	350.264	0.69
24144.00	89.780	340.950	7202.60	15918.79	15911.51	-2745.99	1731773.94	14213271.45	39°08'19.1879"N	80°40'40.0634"W	16146.72	350.208	0.22
24241.00	89.350	341.010	7203.33	16015.79	16003.21	-2777.60	1731742.35	14213363.12	39°08'20.0953"N	80°40'40.4605"W	16242.47	350.154	0.45
24338.00	89.720	341.020	7204.12	16112.78	16094.93	-2809.16	1731710.80	14213454.80	39°08'21.0030"N	80°40'40.8568"W	16338.24	350.100	0.38
24434.00	89.820	341.050	7204.51	16208.78	16185.72	-2840.36	1731679.62	14213545.55	39°08'21.9014"N	80°40'41.2487"W	16433.05	350.047	0.11
24531.00	89.690	340.930	7204.92	16305.77	16277.43	-2871.95	1731648.03	14213637.23	39°08'22.8089"N	80°40'41.6456"W	16528.84	349.994	0.18
24628.00	89.880	340.640	7205.29	16402.77	16369.02	-2903.88	1731616.12	14213728.79	39°08'23.7154"N	80°40'42.0466"W	16624.60	349.940	0.36
24725.00	89.170	340.350	7206.09	16499.77	16460.45	-2936.26	1731583.75	14213820.18	39°08'24.6202"N	80°40'42.4535"W	16720.29	349.886	0.79
24821.00	89.260	340.610	7207.41	16595.76	16550.92	-2968.34	1731551.69	14213910.62	39°08'25.5155"N	80°40'42.8565"W	16815.00	349.832	0.29
24918.00	89.570	339.970	7208.40	16692.75	16642.24	-3001.05	1731518.99	14214001.89	39°08'26.4192"N	80°40'43.2676"W	16910.66	349.778	0.73
25015.00	89.140	339.780	7209.49	16789.74	16733.31	-3034.42	1731485.63	14214092.93	39°08'27.3205"N	80°40'43.6871"W	17006.21	349.722	0.48
25111.00	89.170	339.490	7210.90	16885.71	16823.30	-3067.83	1731452.24	14214182.88	39°08'28.2111"N	80°40'44.1070"W	17100.73	349.665	0.30
25207.00	89.140	339.720	7212.32	16981.69	16913.27	-3101.28	1731418.80	14214272.82	39°08'29.1015"N	80°40'44.5275"W	17195.25	349.609	0.24
25304.00	89.140	339.600	7213.78	17078.67	17004.21	-3134.99	1731385.10	14214363.73	39°08'30.0015"N	80°40'44.9513"W	17290.79	349.554	0.12
25401.00	89.600	339.550	7214.84	17175.65	17095.11	-3168.84	1731351.26	14214454.59	39°08'30.9011"N	80°40'45.3769"W	17386.32	349.499	0.48
25497.00	89.880	340.860	7215.28	17271.64	17185.43	-3201.35	1731318.77	14214544.88	39°08'31.7950"N	80°40'45.7855"W	17481.07	349.448	1.40
25594.00	89.820	341.300	7215.53	17368.64	17277.19	-3232.80	1731287.33	14214636.60	39°08'32.7030"N	80°40'46.1805"W	17577.04	349.402	0.46



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Actual Wellpath Report

Van Wie 1221 N-5H awp Proj: 26317'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-5H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

WELLPATH DATA (309 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]
25690.00	89.170	339.590	7216.38	17464.63	17367.64	-3264.93	1731255.21	14214727.02	39°08'33.5981"N	80°40'46.5843"W	17671.87	349.353	1.91
25787.00	88.860	338.750	7218.04	17561.58	17458.29	-3299.42	1731220.74	14214817.63	39°08'34.4952"N	80°40'47.0179"W	17767.33	349.298	0.92
25884.00	89.200	339.260	7219.69	17658.53	17548.84	-3334.17	1731186.00	14214908.14	39°08'35.3914"N	80°40'47.4549"W	17862.76	349.242	0.63
25981.00	89.230	339.760	7221.02	17755.51	17639.69	-3368.12	1731152.06	14214998.96	39°08'36.2906"N	80°40'47.8818"W	17958.37	349.190	0.52
26077.00	89.170	339.750	7222.36	17851.49	17729.75	-3401.33	1731118.86	14215088.98	39°08'37.1819"N	80°40'48.2993"W	18053.07	349.140	0.06
26174.00	89.230	339.800	7223.71	17948.47	17820.76	-3434.86	1731085.34	14215179.96	39°08'38.0825"N	80°40'48.7209"W	18148.77	349.090	0.08
26271.00	89.110	340.680	7225.12	18045.46	17912.04	-3467.65	1731052.57	14215271.20	39°08'38.9858"N	80°40'49.1330"W	18244.61	349.043	0.92
26292.00	89.140	340.980	7225.44	18066.45	17931.87	-3474.55	1731045.67	14215291.03	39°08'39.1821"N	80°40'49.2196"W	18265.39	349.034	1.44
26317.00‡	89.140	340.980	7225.81	18091.45	17955.51	-3482.69	1731037.53	14215314.65	39°08'39.4160"N	80°40'49.3219"W	18290.14	349.023	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Van Wie 1221 N-5H AWB Ref Wellpath: Van Wie 1221 N-5H awp Proj: 26317'

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	2754.00	2729.00	25.00	2753.91	0.00	0.00	-9.88	4.28
9.625in Casing	25.00	6860.00	6835.00	25.00	6241.49	0.00	0.00	113.44	1908.94
5.5in Casing	25.00	26317.00	26292.00	25.00	7225.81	0.00	0.00	17955.51	-3482.69

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Van Wie 1221 N-5H awp Proj: 26317'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-5H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-5H AWB
Slot	5H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-5H LP rev 2	7100.00	1191.59	2433.12	1736951.03	14198557.30	39°05'53.5130"N	80°39'35.0325"W	point
1221 N-5H 8000vs	7170.00	8447.48	-101.89	1734417.01	14205810.35	39°07'5.3213"N	80°40'6.8515"W	point
1221 N-5H 15000vs	7216.00	15043.51	-2444.69	1732075.13	14212403.79	39°08'10.5982"N	80°40'36.2786"W	point
1221 N-5H BHL rev 2	7255.00	17956.03	-3479.17	1731041.05	14215315.17	39°08'39.4210"N	80°40'49.2772"W	point

WELLPATH COMPOSITION - Ref Wellbore: Van Wie 1221 N-5H AWB Ref Wellpath: Van Wie 1221 N-5H awp Proj: 26317'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1135.00	BH Generic gyro - northseeking (Standard)	1 SDI Keeper 18.5" 100' - 1135'	Van Wie 1221 N-5H AWB	11/29/2024
1135.00	2754.00	BH NaviTrak (2019) (Axial Corr+HRGM)	2 APS EM 17.5" 1254' - 2754'	Van Wie 1221 N-5H AWB	11/29/2024
2754.00	6780.00	BH NaviTrak (2019) (Axial Corr+HRGM)	3 APS EM 12.25" 2929' - 6780'	Van Wie 1221 N-5H AWB	11/29/2024
6780.00	26317.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC HRGM short spacing 8.5" 6885' - 26292'	Van Wie 1221 N-5H AWB	11/29/2024

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