

07/31/2026



Actual Wellpath Report

Van Wie 1221 N-6H awp Proj: 24543'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-6H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-6H AWB
Slot	6H		

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	7/1/2025 at 9:52:22 AM
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	49.20	56.59	1734530.17	14197376.01	39°05'41.9213"N	80°40'5.8061"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 (6H)	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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Slot	6H		

WELLPATH DATA (289 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	36.970	0.00	0.00	0.00	0.00	1734530.17	14197376.01	39°05'41.9213"N	80°40'5.8061"W	0.00	0.000	0.00
25.00	0.000	36.970	25.00	0.00	0.00	0.00	1734530.17	14197376.01	39°05'41.9213"N	80°40'5.8061"W	0.00	0.000	0.00
100.00	0.220	36.970	100.00	0.08	0.12	0.09	1734530.26	14197376.12	39°05'41.9225"N	80°40'5.8050"W	0.14	36.970	0.29
125.00	0.250	17.080	125.00	0.15	0.21	0.13	1734530.30	14197376.22	39°05'41.9234"N	80°40'5.8044"W	0.24	32.608	0.35
150.00	0.100	8.400	150.00	0.21	0.28	0.15	1734530.32	14197376.29	39°05'41.9241"N	80°40'5.8042"W	0.32	28.352	0.61
175.00	0.130	62.470	175.00	0.24	0.31	0.18	1734530.35	14197376.32	39°05'41.9244"N	80°40'5.8038"W	0.36	29.694	0.43
200.00	0.100	22.250	200.00	0.26	0.35	0.21	1734530.38	14197376.36	39°05'41.9248"N	80°40'5.8034"W	0.41	31.458	0.34
225.00	0.070	51.000	225.00	0.28	0.38	0.23	1734530.40	14197376.39	39°05'41.9251"N	80°40'5.8032"W	0.44	31.667	0.20
250.00	0.170	46.560	250.00	0.30	0.41	0.27	1734530.44	14197376.42	39°05'41.9254"N	80°40'5.8027"W	0.49	33.361	0.40
275.00	0.180	47.080	275.00	0.33	0.46	0.33	1734530.50	14197376.47	39°05'41.9259"N	80°40'5.8019"W	0.57	35.155	0.04
300.00	0.080	38.130	300.00	0.35	0.50	0.37	1734530.54	14197376.51	39°05'41.9263"N	80°40'5.8014"W	0.62	35.983	0.41
325.00	0.040	140.540	325.00	0.36	0.51	0.38	1734530.55	14197376.52	39°05'41.9264"N	80°40'5.8012"W	0.64	36.799	0.39
350.00	0.130	173.130	350.00	0.32	0.48	0.39	1734530.56	14197376.49	39°05'41.9260"N	80°40'5.8011"W	0.62	39.405	0.39
375.00	0.170	166.980	375.00	0.25	0.41	0.40	1734530.57	14197376.42	39°05'41.9254"N	80°40'5.8010"W	0.58	44.363	0.17
400.00	0.180	174.470	400.00	0.18	0.34	0.42	1734530.59	14197376.35	39°05'41.9247"N	80°40'5.8008"W	0.54	50.934	0.10
425.00	0.190	139.350	425.00	0.10	0.27	0.45	1734530.62	14197376.28	39°05'41.9240"N	80°40'5.8004"W	0.52	59.131	0.45
450.00	0.160	115.070	450.00	0.04	0.22	0.51	1734530.67	14197376.23	39°05'41.9235"N	80°40'5.7997"W	0.55	66.402	0.32
475.00	0.180	63.400	475.00	0.02	0.22	0.57	1734530.74	14197376.23	39°05'41.9235"N	80°40'5.7989"W	0.61	68.657	0.60
500.00	0.170	101.740	500.00	0.01	0.23	0.64	1734530.81	14197376.24	39°05'41.9236"N	80°40'5.7979"W	0.68	70.051	0.46
525.00	0.110	95.720	525.00	-0.02	0.22	0.70	1734530.87	14197376.23	39°05'41.9235"N	80°40'5.7972"W	0.74	72.370	0.25
550.00	0.080	128.590	550.00	-0.05	0.21	0.74	1734530.91	14197376.22	39°05'41.9234"N	80°40'5.7967"W	0.77	74.157	0.24
575.00	0.150	120.640	575.00	-0.09	0.18	0.78	1734530.95	14197376.19	39°05'41.9231"N	80°40'5.7962"W	0.80	76.862	0.29
600.00	0.140	96.590	600.00	-0.13	0.16	0.84	1734531.01	14197376.17	39°05'41.9229"N	80°40'5.7954"W	0.86	79.066	0.24
625.00	0.110	146.960	625.00	-0.16	0.14	0.88	1734531.05	14197376.15	39°05'41.9227"N	80°40'5.7949"W	0.90	81.077	0.44
650.00	0.090	98.480	650.00	-0.20	0.12	0.92	1734531.09	14197376.13	39°05'41.9225"N	80°40'5.7945"W	0.92	82.798	0.34
675.00	0.100	144.520	675.00	-0.23	0.10	0.95	1734531.12	14197376.11	39°05'41.9222"N	80°40'5.7941"W	0.95	84.271	0.30
700.00	0.070	159.040	700.00	-0.26	0.06	0.97	1734531.14	14197376.07	39°05'41.9219"N	80°40'5.7938"W	0.97	86.262	0.15
725.00	0.080	41.460	725.00	-0.27	0.06	0.98	1734531.15	14197376.07	39°05'41.9219"N	80°40'5.7936"W	0.99	86.395	0.51
750.00	0.140	79.250	750.00	-0.27	0.08	1.03	1734531.20	14197376.09	39°05'41.9221"N	80°40'5.7931"W	1.03	85.497	0.36
775.00	0.100	118.830	775.00	-0.29	0.08	1.08	1734531.24	14197376.09	39°05'41.9221"N	80°40'5.7925"W	1.08	85.957	0.36



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-6H AWB
Slot	6H		

WELLPATH DATA (289 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	0.120	140.780	800.00	-0.33	0.05	1.11	1734531.28	14197376.06	39°05'41.9217"N	80°40'5.7920"W	1.11	87.671	0.19
825.00	0.170	162.070	825.00	-0.39	-0.01	1.14	1734531.31	14197376.00	39°05'41.9212"N	80°40'5.7917"W	1.14	90.523	0.29
850.00	0.210	199.540	850.00	-0.46	-0.09	1.13	1734531.30	14197375.92	39°05'41.9204"N	80°40'5.7917"W	1.14	94.477	0.51
875.00	0.030	111.660	875.00	-0.50	-0.13	1.13	1734531.30	14197375.88	39°05'41.9200"N	80°40'5.7918"W	1.13	96.811	0.84
900.00	0.070	41.270	900.00	-0.50	-0.13	1.14	1734531.31	14197375.88	39°05'41.9201"N	80°40'5.7916"W	1.15	96.267	0.27
925.00	0.090	50.400	925.00	-0.48	-0.10	1.17	1734531.34	14197375.91	39°05'41.9203"N	80°40'5.7913"W	1.17	94.965	0.09
950.00	0.100	97.460	950.00	-0.49	-0.09	1.20	1734531.37	14197375.92	39°05'41.9204"N	80°40'5.7909"W	1.21	94.356	0.31
975.00	0.100	112.140	975.00	-0.51	-0.10	1.25	1734531.42	14197375.91	39°05'41.9203"N	80°40'5.7903"W	1.25	94.716	0.10
1000.00	0.190	128.960	1000.00	-0.56	-0.14	1.30	1734531.47	14197375.87	39°05'41.9199"N	80°40'5.7897"W	1.31	96.027	0.39
1025.00	0.150	126.320	1025.00	-0.62	-0.18	1.36	1734531.53	14197375.83	39°05'41.9195"N	80°40'5.7889"W	1.37	97.661	0.16
1050.00	0.230	140.560	1050.00	-0.70	-0.24	1.41	1734531.58	14197375.77	39°05'41.9189"N	80°40'5.7882"W	1.44	99.652	0.37
1075.00	0.220	147.270	1075.00	-0.79	-0.32	1.47	1734531.64	14197375.69	39°05'41.9181"N	80°40'5.7875"W	1.51	102.250	0.11
1100.00	0.300	136.090	1100.00	-0.90	-0.41	1.54	1734531.71	14197375.60	39°05'41.9173"N	80°40'5.7866"W	1.60	104.777	0.38
1125.00	0.350	143.710	1125.00	-1.03	-0.52	1.63	1734531.80	14197375.49	39°05'41.9162"N	80°40'5.7854"W	1.71	107.519	0.26
1134.00	0.360	125.540	1134.00	-1.08	-0.55	1.67	1734531.84	14197375.46	39°05'41.9158"N	80°40'5.7849"W	1.76	108.330	1.25
1254.00	0.310	152.060	1253.99	-1.71	-1.06	2.13	1734532.30	14197374.95	39°05'41.9108"N	80°40'5.7791"W	2.38	116.438	0.13
1351.00	0.240	119.850	1350.99	-2.12	-1.39	2.43	1734532.60	14197374.62	39°05'41.9075"N	80°40'5.7753"W	2.80	119.812	0.17
1448.00	0.240	121.940	1447.99	-2.44	-1.60	2.78	1734532.95	14197374.41	39°05'41.9054"N	80°40'5.7709"W	3.21	119.949	0.01
1543.00	0.420	114.570	1542.99	-2.83	-1.85	3.27	1734533.43	14197374.16	39°05'41.9029"N	80°40'5.7648"W	3.75	119.556	0.19
1637.00	0.680	123.470	1636.99	-3.52	-2.30	4.04	1734534.21	14197373.71	39°05'41.8984"N	80°40'5.7549"W	4.65	119.656	0.29
1734.00	0.210	51.100	1733.98	-3.92	-2.51	4.66	1734534.83	14197373.50	39°05'41.8964"N	80°40'5.7471"W	5.30	118.280	0.67
1831.00	0.440	83.880	1830.98	-3.94	-2.36	5.17	1734535.34	14197373.65	39°05'41.8979"N	80°40'5.7406"W	5.68	114.504	0.30
1925.00	0.030	282.460	1924.98	-4.01	-2.31	5.51	1734535.67	14197373.70	39°05'41.8983"N	80°40'5.7364"W	5.97	112.790	0.50
2020.00	0.590	102.880	2019.98	-4.26	-2.42	5.96	1734536.13	14197373.59	39°05'41.8972"N	80°40'5.7306"W	6.43	112.080	0.65
2116.00	0.240	98.910	2115.98	-4.62	-2.56	6.64	1734536.81	14197373.45	39°05'41.8958"N	80°40'5.7220"W	7.12	111.074	0.37
2213.00	0.170	153.420	2212.98	-4.86	-2.72	6.90	1734537.07	14197373.29	39°05'41.8942"N	80°40'5.7187"W	7.42	111.492	0.20
2310.00	0.190	139.880	2309.98	-5.15	-2.97	7.07	1734537.24	14197373.04	39°05'41.8917"N	80°40'5.7165"W	7.67	112.782	0.05
2407.00	0.070	74.740	2406.98	-5.31	-3.08	7.23	1734537.40	14197372.93	39°05'41.8907"N	80°40'5.7145"W	7.86	113.049	0.18
2495.00	0.100	166.640	2494.98	-5.39	-3.14	7.30	1734537.47	14197372.87	39°05'41.8901"N	80°40'5.7136"W	7.95	113.255	0.14
2592.00	0.300	149.900	2591.97	-5.72	-3.44	7.45	1734537.62	14197372.57	39°05'41.8871"N	80°40'5.7118"W	8.21	114.788	0.21



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2689.00	0.570	163.560	2688.97	-6.45	-4.12	7.71	1734537.88	14197371.89	39°05'41.8803"N	80°40'5.7085"W	8.75	118.123	0.30
2755.00	0.730	150.530	2754.97	-7.20	-4.80	8.01	1734538.18	14197371.21	39°05'41.8736"N	80°40'5.7047"W	9.34	120.941	0.33
2820.00	2.060	196.280	2819.95	-8.55	-6.29	7.89	1734538.06	14197369.73	39°05'41.8589"N	80°40'5.7063"W	10.09	128.544	2.52
2891.00	2.190	140.390	2890.91	-10.86	-8.56	8.40	1734538.56	14197367.46	39°05'41.8365"N	80°40'5.7000"W	11.99	135.537	2.81
2988.00	3.550	105.790	2987.79	-14.33	-10.80	12.47	1734542.63	14197365.21	39°05'41.8141"N	80°40'5.6485"W	16.50	130.901	2.21
3084.00	5.260	92.750	3083.50	-17.71	-11.82	19.73	1734549.89	14197364.19	39°05'41.8038"N	80°40'5.5565"W	23.00	120.934	2.05
3181.00	7.200	79.850	3179.93	-20.37	-10.96	30.15	1734560.31	14197365.05	39°05'41.8119"N	80°40'5.4242"W	32.08	109.982	2.45
3278.00	9.650	76.720	3275.88	-22.22	-8.02	44.05	1734574.20	14197367.99	39°05'41.8404"N	80°40'5.2478"W	44.77	100.324	2.57
3375.00	11.780	79.230	3371.18	-24.58	-4.31	61.69	1734591.84	14197371.71	39°05'41.8766"N	80°40'5.0238"W	61.84	93.993	2.25
3472.00	14.510	75.480	3465.63	-27.11	0.59	83.19	1734613.32	14197376.60	39°05'41.9242"N	80°40'4.7510"W	83.19	89.592	2.95
3568.00	17.010	79.710	3558.02	-30.37	6.12	108.65	1734638.78	14197382.12	39°05'41.9779"N	80°40'4.4278"W	108.82	86.778	2.86
3663.00	19.370	83.110	3648.27	-36.00	10.49	137.97	1734668.08	14197386.50	39°05'42.0200"N	80°40'4.0557"W	138.37	85.652	2.72
3758.00	21.500	85.580	3737.29	-43.93	13.72	170.97	1734701.07	14197389.73	39°05'42.0508"N	80°40'3.6370"W	171.52	85.411	2.42
3854.00	24.170	85.590	3825.76	-53.58	16.59	208.11	1734738.20	14197392.59	39°05'42.0778"N	80°40'3.1657"W	208.77	85.442	2.78
3951.00	26.530	84.120	3913.41	-63.81	20.34	249.47	1734779.54	14197396.34	39°05'42.1133"N	80°40'2.6410"W	250.29	85.340	2.52
4046.00	29.640	81.260	3997.22	-73.14	26.08	293.80	1734823.86	14197402.08	39°05'42.1685"N	80°40'2.0784"W	294.96	84.927	3.57
4141.00	32.090	79.880	4078.76	-81.58	34.09	341.87	1734871.91	14197410.08	39°05'42.2459"N	80°40'1.4684"W	343.56	84.306	2.68
4237.00	34.060	79.750	4159.20	-90.00	43.35	393.43	1734923.45	14197419.34	39°05'42.3356"N	80°40'0.8139"W	395.81	83.712	2.05
4333.00	35.370	79.430	4238.11	-98.56	53.23	447.20	1734977.20	14197429.22	39°05'42.4313"N	80°40'0.1315"W	450.36	83.212	1.38
4430.00	37.230	79.540	4316.28	-107.46	63.71	503.66	1735033.63	14197439.69	39°05'42.5328"N	80°39'59.4149"W	507.67	82.791	1.92
4527.00	38.680	80.750	4392.76	-117.40	73.91	562.44	1735092.39	14197449.89	39°05'42.6315"N	80°39'58.6689"W	567.27	82.514	1.68
4624.00	41.000	81.140	4467.24	-128.59	83.68	623.80	1735153.73	14197459.66	39°05'42.7259"N	80°39'57.8901"W	629.39	82.359	2.41
4721.00	43.340	80.620	4539.12	-140.24	94.01	688.09	1735217.99	14197469.98	39°05'42.8256"N	80°39'57.0742"W	694.48	82.220	2.44
4822.00	46.740	81.700	4610.48	-153.39	104.97	758.70	1735288.57	14197480.94	39°05'42.9314"N	80°39'56.1781"W	765.93	82.123	3.45
4918.00	48.230	81.760	4675.36	-167.09	115.15	828.72	1735358.57	14197491.11	39°05'43.0294"N	80°39'55.2894"W	836.69	82.089	1.55
5015.00	48.610	82.020	4739.73	-181.33	125.39	900.56	1735430.38	14197501.35	39°05'43.1280"N	80°39'54.3779"W	909.24	82.074	0.44
5111.00	48.130	82.040	4803.51	-195.59	135.33	971.62	1735501.41	14197511.29	39°05'43.2237"N	80°39'53.4761"W	981.00	82.070	0.50
5208.00	48.590	81.350	4867.96	-209.57	145.81	1043.35	1735573.11	14197521.76	39°05'43.3246"N	80°39'52.5658"W	1053.49	82.044	0.71
5303.00	48.120	80.770	4931.09	-222.50	156.84	1113.48	1735643.21	14197532.79	39°05'43.4311"N	80°39'51.6758"W	1124.47	81.982	0.67
5402.00	48.720	79.970	4996.79	-235.10	169.23	1186.49	1735716.19	14197545.17	39°05'43.5509"N	80°39'50.7491"W	1198.50	81.883	0.86



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Actual Wellpath Report

Van Wie 1221 N-6H awp Proj: 24543'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-6H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-6H AWB
Slot	6H		

WELLPATH DATA (289 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]
5499.00	48.650	78.920	5060.83	-246.34	182.57	1258.11	1735787.79	14197558.51	39°05'43.6802"N	80°39'49.8401"W	1271.29	81.743	0.82
5595.00	49.360	79.070	5123.81	-256.96	196.40	1329.23	1735858.88	14197572.34	39°05'43.8143"N	80°39'48.9373"W	1343.67	81.595	0.75
5690.00	49.760	77.900	5185.43	-266.91	210.84	1400.08	1735929.70	14197586.77	39°05'43.9543"N	80°39'48.0380"W	1415.87	81.436	1.03
5786.00	49.450	78.030	5247.64	-276.32	226.08	1471.58	1736001.18	14197602.01	39°05'44.1024"N	80°39'47.1304"W	1488.85	81.266	0.34
5882.00	49.020	77.020	5310.33	-285.13	241.79	1542.58	1736072.14	14197617.70	39°05'44.2550"N	80°39'46.2292"W	1561.41	81.092	0.91
5978.00	49.320	78.180	5373.09	-294.02	257.38	1613.52	1736143.06	14197633.29	39°05'44.4065"N	80°39'45.3286"W	1633.92	80.937	0.97
6074.00	49.030	81.380	5435.86	-305.64	270.27	1684.99	1736214.50	14197646.18	39°05'44.5313"N	80°39'44.4215"W	1706.53	80.887	2.54
6172.00	48.450	80.780	5500.49	-319.08	281.70	1757.77	1736287.25	14197657.60	39°05'44.6415"N	80°39'43.4978"W	1780.20	80.895	0.75
6272.00	48.680	80.810	5566.67	-332.39	293.69	1831.77	1736361.23	14197669.58	39°05'44.7574"N	80°39'42.5586"W	1855.17	80.891	0.23
6369.00	47.910	80.560	5631.20	-345.11	305.41	1903.24	1736432.66	14197681.30	39°05'44.8706"N	80°39'41.6516"W	1927.59	80.884	0.82
6465.00	48.590	81.000	5695.13	-357.80	316.88	1973.93	1736503.33	14197692.77	39°05'44.9814"N	80°39'40.7544"W	1999.21	80.880	0.79
6562.00	48.390	80.460	5759.41	-370.62	328.58	2045.62	1736574.99	14197704.46	39°05'45.0944"N	80°39'39.8445"W	2071.84	80.875	0.47
6659.00	48.740	80.740	5823.61	-383.28	340.46	2117.37	1736646.71	14197716.34	39°05'45.2091"N	80°39'38.9340"W	2144.56	80.865	0.42
6756.00	48.460	80.470	5887.75	-395.96	352.34	2189.15	1736718.46	14197728.21	39°05'45.3239"N	80°39'38.0229"W	2217.32	80.857	0.36
6852.00	48.820	81.290	5951.19	-408.86	363.76	2260.29	1736789.58	14197739.62	39°05'45.4341"N	80°39'37.1200"W	2289.38	80.858	0.74
6949.00	48.260	82.190	6015.41	-422.94	374.20	2332.23	1736861.49	14197750.07	39°05'45.5347"N	80°39'36.2071"W	2362.06	80.885	0.90
7046.00	48.420	82.570	6079.89	-437.77	383.81	2404.06	1736933.29	14197759.67	39°05'45.6270"N	80°39'35.2955"W	2434.51	80.929	0.34
7143.00	47.540	81.520	6144.82	-452.11	393.78	2475.43	1737004.63	14197769.64	39°05'45.7229"N	80°39'34.3898"W	2506.55	80.961	1.21
7240.00	47.760	82.200	6210.17	-466.14	403.93	2546.39	1737075.56	14197779.78	39°05'45.8206"N	80°39'33.4893"W	2578.23	80.986	0.57
7337.00	48.520	81.440	6274.90	-480.24	414.21	2617.90	1737147.04	14197790.06	39°05'45.9195"N	80°39'32.5818"W	2650.46	81.009	0.98
7420.00	47.470	80.700	6330.44	-491.48	423.78	2678.83	1737207.95	14197799.63	39°05'46.0119"N	80°39'31.8085"W	2712.14	81.010	1.43
7483.00	47.400	80.680	6373.05	-499.63	431.29	2724.61	1737253.72	14197807.13	39°05'46.0844"N	80°39'31.2274"W	2758.54	81.005	0.11
7546.00	47.290	78.320	6415.74	-506.82	439.73	2770.17	1737299.25	14197815.57	39°05'46.1661"N	80°39'30.6492"W	2804.85	80.980	2.76
7642.00	47.350	74.350	6480.84	-513.91	456.40	2838.72	1737367.77	14197832.23	39°05'46.3283"N	80°39'29.7790"W	2875.17	80.866	3.04
7739.00	47.300	68.950	6546.61	-515.25	478.83	2906.36	1737435.39	14197854.65	39°05'46.5475"N	80°39'28.9199"W	2945.54	80.644	4.09
7835.00	48.200	64.190	6611.18	-510.28	507.09	2971.51	1737500.52	14197882.90	39°05'46.8244"N	80°39'28.0921"W	3014.47	80.316	3.79
7932.00	50.660	58.110	6674.30	-498.16	542.67	3035.96	1737564.94	14197918.47	39°05'47.1737"N	80°39'27.2731"W	3084.08	79.865	5.39
8028.00	52.130	52.390	6734.22	-478.32	585.43	3097.53	1737626.48	14197961.21	39°05'47.5940"N	80°39'26.4900"W	3152.37	79.297	4.90
8125.00	54.990	44.830	6791.89	-449.09	637.03	3155.93	1737684.86	14198012.79	39°05'48.1018"N	80°39'25.7468"W	3219.58	78.588	6.93
8221.00	57.370	34.020	6845.43	-407.85	698.55	3206.37	1737735.29	14198074.29	39°05'48.7080"N	80°39'25.1040"W	3281.59	77.709	9.67

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WELLPATH DATA (289 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]
8318.00	60.350	24.600	6895.66	-353.12	770.87	3246.85	1737775.75	14198146.57	39°05'49.4212"N	80°39'24.5872"W	3337.10	76.644	8.86
8414.00	63.730	19.530	6940.69	-289.60	849.42	3278.63	1737807.51	14198225.10	39°05'50.1965"N	80°39'24.1803"W	3386.87	75.475	5.84
8510.00	67.380	18.680	6980.41	-221.25	931.99	3307.22	1737836.09	14198307.64	39°05'51.0115"N	80°39'23.8137"W	3436.03	74.262	3.89
8607.00	70.650	15.180	7015.15	-148.32	1018.61	3333.55	1737862.42	14198394.22	39°05'51.8667"N	80°39'23.4755"W	3485.71	73.009	4.77
8703.00	74.070	10.900	7044.25	-71.15	1107.71	3354.16	1737883.01	14198483.29	39°05'52.7465"N	80°39'23.2099"W	3532.33	71.724	5.54
8800.00	78.540	6.470	7067.22	11.94	1200.83	3368.34	1737897.19	14198576.37	39°05'53.6663"N	80°39'23.0255"W	3575.99	70.379	6.40
8897.00	82.250	1.930	7083.41	99.53	1296.17	3375.32	1737904.17	14198671.67	39°05'54.6084"N	80°39'22.9324"W	3615.64	68.993	5.99
8993.00	87.720	357.340	7091.81	189.87	1391.74	3374.70	1737903.55	14198767.20	39°05'55.5530"N	80°39'22.9357"W	3650.42	67.589	7.43
9089.00	88.890	351.460	7094.65	283.00	1487.19	3365.34	1737894.19	14198862.62	39°05'56.4968"N	80°39'23.0499"W	3679.30	66.159	6.24
9186.00	88.920	347.260	7096.50	378.82	1582.49	3347.44	1737876.29	14198957.88	39°05'57.4394"N	80°39'23.2724"W	3702.65	64.698	4.33
9282.00	90.060	348.190	7097.36	474.07	1676.29	3327.03	1737855.89	14199051.64	39°05'58.3672"N	80°39'23.5268"W	3725.46	63.259	1.53
9379.00	89.510	344.390	7097.72	570.57	1770.50	3304.04	1737832.92	14199145.82	39°05'59.2993"N	80°39'23.8138"W	3748.52	61.815	3.96
9474.00	89.380	344.040	7098.64	665.37	1861.92	3278.20	1737807.09	14199237.20	39°06'0.2038"N	80°39'24.1372"W	3770.06	60.405	0.39
9571.00	89.570	344.240	7099.53	762.18	1955.22	3251.69	1737780.59	14199330.46	39°06'1.1270"N	80°39'24.4690"W	3794.26	58.982	0.28
9668.00	89.200	341.510	7100.57	859.08	2047.91	3223.14	1737752.04	14199423.11	39°06'2.0441"N	80°39'24.8268"W	3818.71	57.569	2.84
9763.00	89.200	341.350	7101.90	954.06	2137.95	3192.88	1737721.80	14199513.12	39°06'2.9352"N	80°39'25.2062"W	3842.57	56.194	0.17
9860.00	89.320	341.190	7103.15	1051.05	2229.81	3161.74	1737690.67	14199604.94	39°06'3.8443"N	80°39'25.5969"W	3868.93	54.807	0.21
9956.00	88.950	341.220	7104.60	1147.03	2320.68	3130.81	1737659.76	14199695.78	39°06'4.7436"N	80°39'25.9848"W	3897.12	53.453	0.39
10052.00	89.050	341.420	7106.28	1243.01	2411.61	3100.07	1737629.03	14199786.67	39°06'5.6434"N	80°39'26.3704"W	3927.63	52.120	0.23
10147.00	88.800	341.360	7108.06	1337.98	2501.62	3069.76	1737598.73	14199876.65	39°06'6.5343"N	80°39'26.7506"W	3959.99	50.823	0.27
10244.00	88.770	341.280	7110.12	1434.95	2593.49	3038.70	1737567.68	14199968.49	39°06'7.4434"N	80°39'27.1402"W	3994.98	49.520	0.09
10341.00	89.170	340.430	7111.86	1531.93	2685.11	3006.89	1737535.88	14200060.07	39°06'8.3502"N	80°39'27.5393"W	4031.28	48.236	0.97
10437.00	89.290	341.970	7113.15	1627.92	2775.98	2975.96	1737504.96	14200150.90	39°06'9.2494"N	80°39'27.9273"W	4069.69	46.991	1.61
10533.00	89.260	341.750	7114.36	1723.88	2867.20	2946.07	1737475.09	14200242.09	39°06'10.1522"N	80°39'28.3021"W	4110.98	45.777	0.23
10628.00	89.350	338.650	7115.52	1818.86	2956.57	2913.90	1737442.93	14200331.42	39°06'11.0366"N	80°39'28.7060"W	4151.16	44.584	3.26
10725.00	89.290	340.240	7116.67	1915.83	3047.38	2879.84	1737408.89	14200422.20	39°06'11.9355"N	80°39'29.1336"W	4192.86	43.381	1.64
10821.00	89.320	341.340	7117.83	2011.83	3138.03	2848.26	1737377.31	14200512.81	39°06'12.8326"N	80°39'29.5299"W	4237.90	42.229	1.15
10918.00	89.050	341.590	7119.21	2108.80	3229.99	2817.43	1737346.50	14200604.73	39°06'13.7426"N	80°39'29.9166"W	4286.11	41.097	0.38
11015.00	89.290	341.660	7120.62	2205.78	3322.03	2786.85	1737315.93	14200696.74	39°06'14.6535"N	80°39'30.3001"W	4336.18	39.993	0.26
11111.00	88.950	341.670	7122.09	2301.75	3413.15	2756.66	1737285.75	14200787.82	39°06'15.5552"N	80°39'30.6788"W	4387.34	38.926	0.35

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11207.00	89.110	342.980	7123.72	2397.69	3504.60	2727.52	1737256.62	14200879.24	39°06'16.4602"N	80°39'31.0441"W	4440.90	37.892	1.37
11304.00	90.000	346.860	7124.47	2494.39	3598.24	2702.29	1737231.40	14200972.84	39°06'17.3866"N	80°39'31.3597"W	4499.96	36.907	4.10
11400.00	89.010	340.800	7125.30	2590.18	3690.39	2675.57	1737204.69	14201064.96	39°06'18.2985"N	80°39'31.6943"W	4558.25	35.942	6.40
11496.00	89.110	343.000	7126.88	2686.14	3781.63	2645.75	1737174.88	14201156.15	39°06'19.2013"N	80°39'32.0682"W	4615.26	34.978	2.29
11592.00	89.420	340.420	7128.11	2782.10	3872.76	2615.62	1737144.77	14201247.25	39°06'20.1032"N	80°39'32.4460"W	4673.30	34.035	2.71
11689.00	88.980	339.290	7129.46	2879.08	3963.82	2582.22	1737111.38	14201338.27	39°06'21.0044"N	80°39'32.8654"W	4730.72	33.082	1.25
11786.00	89.720	340.990	7130.56	2976.07	4055.04	2549.27	1737078.44	14201429.46	39°06'21.9072"N	80°39'33.2790"W	4789.79	32.156	1.91
11883.00	89.140	339.410	7131.53	3073.06	4146.29	2516.42	1737045.60	14201520.68	39°06'22.8104"N	80°39'33.6915"W	4850.17	31.254	1.74
11978.00	89.600	340.740	7132.57	3168.05	4235.60	2484.05	1737013.24	14201609.95	39°06'23.6943"N	80°39'34.0979"W	4910.27	30.390	1.48
12074.00	89.480	339.540	7133.34	3264.04	4325.89	2451.43	1736980.64	14201700.20	39°06'24.5878"N	80°39'34.5073"W	4972.20	29.540	1.26
12171.00	89.480	340.020	7134.22	3361.03	4416.90	2417.91	1736947.13	14201791.18	39°06'25.4887"N	80°39'34.9282"W	5035.41	28.697	0.49
12266.00	89.720	339.610	7134.89	3456.01	4506.07	2385.13	1736914.37	14201880.31	39°06'26.3712"N	80°39'35.3398"W	5098.38	27.893	0.50
12361.00	89.630	339.260	7135.43	3550.99	4595.01	2351.76	1736881.01	14201969.22	39°06'27.2515"N	80°39'35.7589"W	5161.87	27.104	0.38
12458.00	89.780	339.360	7135.93	3647.97	4685.75	2317.49	1736846.75	14202059.93	39°06'28.1496"N	80°39'36.1894"W	5227.53	26.316	0.19
12554.00	89.660	339.780	7136.39	3743.95	4775.71	2283.98	1736813.25	14202149.85	39°06'29.0400"N	80°39'36.6102"W	5293.77	25.559	0.46
12650.00	89.720	339.240	7136.91	3839.94	4865.64	2250.38	1736779.66	14202239.74	39°06'29.9301"N	80°39'37.0323"W	5360.84	24.821	0.57
12747.00	90.060	338.280	7137.10	3936.89	4956.05	2215.24	1736744.54	14202330.12	39°06'30.8250"N	80°39'37.4738"W	5428.60	24.084	1.05
12843.00	89.020	336.360	7137.87	4032.72	5044.62	2178.22	1736707.54	14202418.65	39°06'31.7017"N	80°39'37.9391"W	5494.80	23.354	2.27
12939.00	90.400	336.790	7138.36	4128.49	5132.70	2140.06	1736669.39	14202506.70	39°06'32.5737"N	80°39'38.4191"W	5560.98	22.634	1.51
13035.00	89.780	339.180	7138.21	4224.38	5221.69	2104.08	1736633.42	14202595.66	39°06'33.4546"N	80°39'38.8713"W	5629.67	21.947	2.57
13132.00	89.750	339.340	7138.60	4321.35	5312.41	2069.73	1736599.09	14202686.34	39°06'34.3525"N	80°39'39.3028"W	5701.36	21.286	0.17
13228.00	89.540	339.680	7139.20	4417.34	5402.33	2036.12	1736565.50	14202776.23	39°06'35.2425"N	80°39'39.7249"W	5773.30	20.651	0.42
13324.00	89.850	340.190	7139.71	4513.33	5492.50	2003.19	1736532.57	14202866.36	39°06'36.1350"N	80°39'40.1384"W	5846.40	20.038	0.62
13420.00	89.720	338.950	7140.07	4609.31	5582.46	1969.68	1736499.08	14202956.29	39°06'37.0254"N	80°39'40.5593"W	5919.76	19.435	1.30
13517.00	90.150	339.650	7140.18	4706.29	5673.20	1935.39	1736464.80	14203046.99	39°06'37.9234"N	80°39'40.9900"W	5994.24	18.837	0.85
13614.00	89.720	337.720	7140.29	4803.23	5763.56	1900.14	1736429.56	14203137.31	39°06'38.8178"N	80°39'41.4330"W	6068.70	18.246	2.04
13709.00	89.630	336.030	7140.83	4898.03	5850.92	1862.83	1736392.27	14203224.64	39°06'39.6827"N	80°39'41.9022"W	6140.31	17.661	1.78
13806.00	89.750	336.640	7141.35	4994.76	5939.76	1823.89	1736353.35	14203313.45	39°06'40.5622"N	80°39'42.3919"W	6213.48	17.070	0.64
13901.00	89.720	335.520	7141.79	5089.47	6026.60	1785.38	1736314.85	14203400.25	39°06'41.4219"N	80°39'42.8765"W	6285.50	16.502	1.18
13998.00	89.660	336.330	7142.32	5186.14	6115.16	1745.81	1736275.29	14203488.78	39°06'42.2987"N	80°39'43.3743"W	6359.49	15.933	0.84



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Actual Wellpath Report

Van Wie 1221 N-6H awp Proj: 24543'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-6H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-6H AWB
Slot	6H		

WELLPATH DATA (289 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]
14095.00	89.720	339.050	7142.84	5283.01	6204.89	1708.99	1736238.49	14203578.47	39°06'43.1869"N	80°39'43.8372"W	6435.94	15.399	2.80
14192.00	90.620	343.220	7142.55	5379.98	6296.66	1677.63	1736207.14	14203670.20	39°06'44.0951"N	80°39'44.2306"W	6516.32	14.919	4.40
14288.00	89.940	342.520	7142.09	5475.90	6388.40	1649.36	1736178.88	14203761.91	39°06'45.0028"N	80°39'44.5850"W	6597.88	14.476	1.02
14385.00	89.780	342.060	7142.32	5572.86	6480.80	1619.85	1736149.38	14203854.27	39°06'45.9172"N	80°39'44.9550"W	6680.17	14.033	0.50
14482.00	90.250	342.960	7142.30	5669.80	6573.32	1590.70	1736120.24	14203946.75	39°06'46.8327"N	80°39'45.3205"W	6763.05	13.604	1.05
14576.00	89.820	341.650	7142.24	5763.76	6662.87	1562.13	1736091.68	14204036.27	39°06'47.7188"N	80°39'45.6788"W	6843.54	13.195	1.47
14672.00	89.820	342.270	7142.54	5859.73	6754.15	1532.40	1736061.97	14204127.51	39°06'48.6221"N	80°39'46.0516"W	6925.80	12.783	0.65
14769.00	89.820	342.120	7142.85	5956.69	6846.50	1502.74	1736032.32	14204219.83	39°06'49.5360"N	80°39'46.4236"W	7009.48	12.380	0.15
14866.00	89.720	340.960	7143.24	6053.67	6938.51	1472.02	1736001.62	14204311.80	39°06'50.4465"N	80°39'46.8089"W	7092.93	11.978	1.20
14961.00	89.690	342.360	7143.72	6148.65	7028.68	1442.13	1735971.74	14204401.93	39°06'51.3388"N	80°39'47.1839"W	7175.10	11.595	1.47
15058.00	89.720	341.940	7144.22	6245.61	7121.01	1412.40	1735942.02	14204494.23	39°06'52.2524"N	80°39'47.5568"W	7259.72	11.219	0.43
15154.00	89.630	342.160	7144.77	6341.58	7212.33	1382.81	1735912.44	14204585.52	39°06'53.1562"N	80°39'47.9279"W	7343.70	10.854	0.25
15251.00	89.780	342.020	7145.27	6438.54	7304.63	1352.99	1735882.63	14204677.78	39°06'54.0695"N	80°39'48.3020"W	7428.88	10.494	0.21
15348.00	90.000	342.990	7145.45	6535.49	7397.14	1323.83	1735853.48	14204770.25	39°06'54.9849"N	80°39'48.6676"W	7514.67	10.146	1.03
15444.00	89.940	342.670	7145.50	6631.41	7488.86	1295.49	1735825.15	14204861.94	39°06'55.8925"N	80°39'49.0228"W	7600.09	9.814	0.34
15637.00	89.820	342.710	7145.91	6824.28	7673.12	1238.06	1735767.74	14205046.13	39°06'57.7158"N	80°39'49.7428"W	7772.36	9.166	0.07
15734.00	90.460	343.480	7145.67	6921.18	7765.93	1209.85	1735739.55	14205138.90	39°06'58.6341"N	80°39'50.0963"W	7859.61	8.855	1.03
15831.00	89.820	342.240	7145.43	7018.10	7858.62	1181.27	1735710.98	14205231.55	39°06'59.5513"N	80°39'50.4546"W	7946.90	8.548	1.44
15928.00	90.090	342.840	7145.51	7115.05	7951.15	1152.16	1735681.88	14205324.04	39°07'0.4669"N	80°39'50.8195"W	8034.19	8.245	0.68
16025.00	89.880	342.530	7145.54	7211.98	8043.75	1123.30	1735653.03	14205416.61	39°07'1.3832"N	80°39'51.1814"W	8121.81	7.950	0.39
16122.00	90.120	340.500	7145.54	7308.96	8135.74	1092.54	1735622.28	14205508.57	39°07'2.2936"N	80°39'51.5673"W	8208.77	7.648	2.11
16218.00	90.220	340.890	7145.25	7404.96	8226.34	1060.81	1735590.56	14205599.13	39°07'3.1902"N	80°39'51.9657"W	8294.46	7.348	0.42
16315.00	89.970	340.140	7145.09	7501.96	8317.79	1028.45	1735558.22	14205690.54	39°07'4.0952"N	80°39'52.3720"W	8381.13	7.049	0.82
16412.00	89.750	340.220	7145.33	7598.96	8409.04	995.56	1735525.34	14205781.76	39°07'4.9983"N	80°39'52.7850"W	8467.77	6.752	0.24
16509.00	89.940	340.490	7145.59	7695.96	8500.40	962.95	1735492.74	14205873.07	39°07'5.9024"N	80°39'53.1945"W	8554.76	6.463	0.34
16605.00	89.910	340.350	7145.72	7791.96	8590.84	930.78	1735460.58	14205963.49	39°07'6.7976"N	80°39'53.5984"W	8641.12	6.184	0.15
16701.00	89.690	340.090	7146.05	7887.95	8681.18	898.29	1735428.11	14206053.79	39°07'7.6916"N	80°39'54.0064"W	8727.53	5.908	0.35
16798.00	89.690	340.070	7146.58	7984.95	8772.37	865.24	1735395.07	14206144.95	39°07'8.5942"N	80°39'54.4214"W	8814.94	5.633	0.02
16895.00	89.720	340.230	7147.08	8081.94	8863.61	832.31	1735362.15	14206236.15	39°07'9.4971"N	80°39'54.8351"W	8902.60	5.364	0.17
16992.00	90.710	340.410	7146.71	8178.94	8954.94	799.64	1735329.50	14206327.44	39°07'10.4010"N	80°39'55.2452"W	8990.57	5.103	1.04



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Slot	6H		

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17088.00	90.030	340.180	7146.09	8274.94	9045.32	767.27	1735297.14	14206417.78	39°07'11.2954"N	80°39'55.6517"W	9077.80	4.849	0.75
17183.00	90.000	340.010	7146.07	8369.93	9134.64	734.93	1735264.81	14206507.07	39°07'12.1795"N	80°39'56.0579"W	9164.16	4.600	0.18
17280.00	89.880	340.160	7146.17	8466.93	9225.84	701.89	1735231.78	14206598.24	39°07'13.0821"N	80°39'56.4729"W	9252.50	4.351	0.20
17377.00	88.890	340.420	7147.21	8563.92	9317.15	669.18	1735199.08	14206689.51	39°07'13.9858"N	80°39'56.8837"W	9341.15	4.108	1.06
17474.00	89.660	340.370	7148.44	8660.91	9408.52	636.63	1735166.55	14206780.84	39°07'14.8900"N	80°39'57.2923"W	9430.04	3.871	0.80
17571.00	89.540	340.120	7149.11	8757.91	9499.81	603.85	1735133.78	14206872.10	39°07'15.7935"N	80°39'57.7041"W	9518.98	3.637	0.29
17667.00	89.880	341.020	7149.60	8853.91	9590.34	571.91	1735101.86	14206962.59	39°07'16.6894"N	80°39'58.1050"W	9607.38	3.413	1.00
17764.00	90.120	340.500	7149.60	8950.91	9681.92	539.95	1735069.91	14207054.14	39°07'17.5957"N	80°39'58.5063"W	9696.97	3.192	0.59
17860.00	89.570	339.930	7149.86	9046.90	9772.25	507.45	1735037.43	14207144.44	39°07'18.4897"N	80°39'58.9144"W	9785.42	2.973	0.83
17956.00	89.940	340.350	7150.27	9142.90	9862.54	474.84	1735004.83	14207234.69	39°07'19.3833"N	80°39'59.3240"W	9873.97	2.756	0.58
18052.00	90.060	339.790	7150.27	9238.90	9952.79	442.12	1734972.12	14207324.90	39°07'20.2765"N	80°39'59.7350"W	9962.61	2.543	0.60
18149.00	90.280	339.400	7149.98	9335.88	10043.71	408.30	1734938.31	14207415.78	39°07'21.1763"N	80°40'0.1599"W	10052.00	2.328	0.46
18246.00	90.370	339.820	7149.43	9432.87	10134.63	374.50	1734904.53	14207506.67	39°07'22.0762"N	80°40'0.5845"W	10141.54	2.116	0.44
18340.00	90.000	340.280	7149.13	9526.86	10222.99	342.43	1734872.47	14207594.99	39°07'22.9506"N	80°40'0.9874"W	10228.72	1.918	0.63
18435.00	89.940	339.930	7149.18	9621.86	10312.32	310.10	1734840.15	14207684.28	39°07'23.8347"N	80°40'1.3934"W	10316.98	1.722	0.37
18532.00	90.060	340.480	7149.18	9718.86	10403.58	277.25	1734807.32	14207775.52	39°07'24.7380"N	80°40'1.8060"W	10407.28	1.527	0.58
18628.00	89.750	340.920	7149.34	9814.85	10494.19	245.52	1734775.60	14207866.09	39°07'25.6347"N	80°40'2.2044"W	10497.06	1.340	0.56
18725.00	89.690	341.700	7149.81	9911.84	10586.07	214.44	1734744.53	14207957.93	39°07'26.5439"N	80°40'2.5945"W	10588.24	1.160	0.81
18822.00	87.690	338.550	7152.03	10008.80	10677.25	181.48	1734711.58	14208049.08	39°07'27.4463"N	80°40'3.0085"W	10678.80	0.974	3.85
18919.00	90.150	340.790	7153.86	10105.76	10768.18	147.79	1734677.90	14208139.97	39°07'28.3463"N	80°40'3.4318"W	10769.20	0.786	3.43
19015.00	90.030	341.050	7153.71	10201.75	10858.91	116.41	1734646.53	14208230.66	39°07'29.2441"N	80°40'3.8258"W	10859.53	0.614	0.30
19112.00	89.660	340.090	7153.97	10298.75	10950.38	84.14	1734614.28	14208322.10	39°07'30.1494"N	80°40'4.2309"W	10950.71	0.440	1.06
19208.00	89.690	340.180	7154.51	10394.75	11040.67	51.52	1734581.67	14208412.35	39°07'31.0430"N	80°40'4.6407"W	11040.79	0.267	0.10
19304.00	89.850	340.270	7154.90	10490.75	11131.01	19.04	1734549.21	14208502.65	39°07'31.9370"N	80°40'5.0486"W	11131.02	0.098	0.19
19401.00	88.980	336.790	7155.89	10587.66	11221.26	-16.45	1734513.72	14208592.87	39°07'32.8303"N	80°40'5.4948"W	11221.27	359.916	3.70
19498.00	89.630	339.840	7157.07	10684.57	11311.37	-52.29	1734477.90	14208682.95	39°07'33.7223"N	80°40'5.9454"W	11311.49	359.735	3.21
19595.00	89.720	340.430	7157.62	10781.56	11402.60	-85.25	1734444.96	14208774.14	39°07'34.6251"N	80°40'6.3594"W	11402.92	359.572	0.62
19691.00	89.660	340.250	7158.14	10877.56	11493.00	-117.54	1734412.67	14208864.51	39°07'35.5198"N	80°40'6.7650"W	11493.60	359.414	0.20
19788.00	89.720	340.250	7158.66	10974.56	11584.30	-150.32	1734379.91	14208955.77	39°07'36.4233"N	80°40'7.1767"W	11585.27	359.257	0.06
19885.00	89.540	340.570	7159.29	11071.56	11675.68	-182.84	1734347.40	14209047.11	39°07'37.3277"N	80°40'7.5852"W	11677.11	359.103	0.38



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19981.00	89.750	340.500	7159.88	11167.55	11766.19	-214.83	1734315.42	14209137.59	39°07'38.2234"N	80°40'7.9869"W	11768.15	358.954	0.23
20077.00	89.020	340.180	7160.91	11263.55	11856.59	-247.13	1734283.14	14209227.95	39°07'39.1181"N	80°40'8.3926"W	11859.16	358.806	0.83
20174.00	89.320	340.130	7162.32	11360.53	11947.82	-280.06	1734250.22	14209319.15	39°07'40.0209"N	80°40'8.8062"W	11951.10	358.657	0.31
20271.00	90.090	340.640	7162.82	11457.53	12039.19	-312.62	1734217.68	14209410.48	39°07'40.9252"N	80°40'9.2151"W	12043.24	358.513	0.95
20367.00	90.030	340.520	7162.72	11553.53	12129.72	-344.54	1734185.77	14209500.98	39°07'41.8212"N	80°40'9.6160"W	12134.62	358.373	0.14
20463.00	90.120	340.660	7162.59	11649.53	12220.27	-376.44	1734153.88	14209591.49	39°07'42.7172"N	80°40'10.0167"W	12226.06	358.236	0.17
20559.00	89.780	339.400	7162.67	11745.53	12310.49	-409.23	1734121.10	14209681.68	39°07'43.6102"N	80°40'10.4285"W	12317.29	358.096	1.36
20655.00	88.030	335.970	7164.51	11841.37	12399.27	-445.66	1734084.68	14209770.42	39°07'44.4890"N	80°40'10.8868"W	12407.28	357.942	4.01
20751.00	88.800	337.360	7167.17	11937.11	12487.38	-483.67	1734046.69	14209858.50	39°07'45.3612"N	80°40'11.3651"W	12496.75	357.782	1.65
20848.00	90.250	340.620	7167.97	12034.05	12577.92	-518.44	1734011.93	14209949.00	39°07'46.2573"N	80°40'11.8021"W	12588.60	357.640	3.68
20945.00	90.680	340.370	7167.18	12131.05	12669.35	-550.83	1733979.56	14210040.39	39°07'47.1621"N	80°40'12.2089"W	12681.32	357.511	0.51
21042.00	91.020	341.570	7165.74	12228.03	12761.03	-582.45	1733947.94	14210132.04	39°07'48.0694"N	80°40'12.6060"W	12774.32	357.387	1.29
21138.00	90.770	340.520	7164.24	12324.01	12851.82	-613.63	1733916.78	14210222.79	39°07'48.9678"N	80°40'12.9975"W	12866.46	357.266	1.12
21235.00	90.460	339.920	7163.20	12421.01	12943.09	-646.46	1733883.97	14210314.02	39°07'49.8711"N	80°40'13.4098"W	12959.22	357.141	0.70
21332.00	90.830	341.970	7162.11	12517.99	13034.76	-678.12	1733852.32	14210405.66	39°07'50.7783"N	80°40'13.8074"W	13052.39	357.022	2.15
21429.00	89.940	340.720	7161.46	12614.98	13126.66	-709.15	1733821.30	14210497.53	39°07'51.6877"N	80°40'14.1969"W	13145.80	356.908	1.58
21526.00	89.630	340.370	7161.82	12711.98	13218.12	-741.45	1733789.01	14210588.95	39°07'52.5929"N	80°40'14.6026"W	13238.90	356.789	0.48
21623.00	89.660	340.210	7162.42	12808.98	13309.44	-774.17	1733756.31	14210680.23	39°07'53.4966"N	80°40'15.0136"W	13331.93	356.671	0.17
21719.00	89.510	340.280	7163.12	12904.97	13399.78	-806.61	1733723.87	14210770.54	39°07'54.3907"N	80°40'15.4212"W	13424.04	356.555	0.17
21814.00	89.780	340.440	7163.71	12999.97	13489.25	-838.54	1733691.96	14210859.98	39°07'55.2762"N	80°40'15.8223"W	13515.29	356.443	0.33
21911.00	89.600	340.290	7164.23	13096.97	13580.61	-871.14	1733659.37	14210951.30	39°07'56.1803"N	80°40'16.2317"W	13608.52	356.330	0.24
22008.00	89.480	340.150	7165.01	13193.96	13671.89	-903.96	1733626.56	14211042.54	39°07'57.0836"N	80°40'16.6441"W	13701.74	356.217	0.19
22104.00	89.600	340.200	7165.78	13289.96	13762.19	-936.52	1733594.02	14211132.81	39°07'57.9773"N	80°40'17.0531"W	13794.02	356.107	0.14
22200.00	89.480	340.360	7166.55	13385.95	13852.56	-968.91	1733561.64	14211223.14	39°07'58.8717"N	80°40'17.4600"W	13886.40	355.999	0.21
22297.00	89.170	339.730	7167.70	13482.94	13943.73	-1002.01	1733528.55	14211314.28	39°07'59.7739"N	80°40'17.8759"W	13979.69	355.890	0.72
22393.00	86.180	340.330	7171.59	13578.85	14033.87	-1034.77	1733495.81	14211404.38	39°08'0.6661"N	80°40'18.2875"W	14071.97	355.783	3.18
22490.00	89.080	340.010	7175.60	13675.75	14125.03	-1067.64	1733462.95	14211495.51	39°08'1.5682"N	80°40'18.7005"W	14165.32	355.678	3.01
22586.00	89.540	339.960	7176.76	13771.74	14215.23	-1100.50	1733430.10	14211585.67	39°08'2.4609"N	80°40'19.1133"W	14257.76	355.573	0.48
22681.00	89.780	340.310	7177.32	13866.73	14304.57	-1132.78	1733397.83	14211674.98	39°08'3.3451"N	80°40'19.5189"W	14349.36	355.472	0.45
22778.00	90.490	340.640	7177.09	13963.73	14395.99	-1165.20	1733365.43	14211766.36	39°08'4.2498"N	80°40'19.9261"W	14443.07	355.373	0.81



Actual Wellpath Report

Van Wie 1221 N-6H awp Proj: 24543'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-6H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-6H AWB
Slot	6H		

WELLPATH DATA (289 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]
22875.00	90.220	340.390	7176.49	14060.73	14487.44	-1197.55	1733333.09	14211857.77	39°08'5.1548"N	80°40'20.3325"W	14536.85	355.275	0.38
22972.00	90.310	340.220	7176.04	14157.73	14578.76	-1230.24	1733300.41	14211949.06	39°08'6.0586"N	80°40'20.7432"W	14630.58	355.176	0.20
23069.00	89.970	340.550	7175.81	14254.73	14670.13	-1262.81	1733267.86	14212040.39	39°08'6.9628"N	80°40'21.1522"W	14724.38	355.080	0.49
23164.00	89.780	338.910	7176.01	14349.71	14759.25	-1295.72	1733234.96	14212129.47	39°08'7.8448"N	80°40'21.5658"W	14816.01	354.983	1.74
23261.00	90.030	340.410	7176.17	14446.70	14850.19	-1329.43	1733201.26	14212220.39	39°08'8.7449"N	80°40'21.9896"W	14909.58	354.884	1.57
23358.00	90.180	340.120	7176.00	14543.70	14941.50	-1362.19	1733168.52	14212311.65	39°08'9.6485"N	80°40'22.4011"W	15003.46	354.791	0.34
23454.00	89.690	340.280	7176.10	14639.69	15031.82	-1394.70	1733136.01	14212401.94	39°08'10.5424"N	80°40'22.8096"W	15096.39	354.699	0.54
23551.00	89.570	339.940	7176.73	14736.69	15123.03	-1427.70	1733103.03	14212493.12	39°08'11.4450"N	80°40'23.2243"W	15190.28	354.607	0.37
23648.00	89.540	340.620	7177.48	14833.68	15214.34	-1460.43	1733070.31	14212584.39	39°08'12.3487"N	80°40'23.6355"W	15284.27	354.517	0.70
23744.00	89.540	340.070	7178.25	14929.68	15304.74	-1492.72	1733038.03	14212674.76	39°08'13.2433"N	80°40'24.0411"W	15377.37	354.429	0.57
23840.00	89.230	340.190	7179.29	15025.67	15395.02	-1525.35	1733005.42	14212765.00	39°08'14.1368"N	80°40'24.4511"W	15470.41	354.342	0.35
23937.00	88.830	340.540	7180.93	15122.66	15486.37	-1557.94	1732972.84	14212856.31	39°08'15.0408"N	80°40'24.8605"W	15564.54	354.255	0.55
24034.00	89.230	340.380	7182.57	15219.64	15577.77	-1590.38	1732940.42	14212947.68	39°08'15.9453"N	80°40'25.2680"W	15658.74	354.171	0.44
24131.00	89.020	341.080	7184.05	15316.63	15669.32	-1622.39	1732908.42	14213039.19	39°08'16.8514"N	80°40'25.6701"W	15753.09	354.089	0.75
24228.00	88.860	340.610	7185.85	15413.61	15760.94	-1654.21	1732876.61	14213130.77	39°08'17.7580"N	80°40'26.0698"W	15847.51	354.008	0.51
24325.00	88.800	340.330	7187.83	15510.59	15852.34	-1686.63	1732844.20	14213222.14	39°08'18.6625"N	80°40'26.4771"W	15941.81	353.927	0.30
24422.00	88.770	340.570	7189.88	15607.57	15943.73	-1719.08	1732811.76	14213313.49	39°08'19.5669"N	80°40'26.8848"W	16036.13	353.846	0.25
24518.00	88.740	340.540	7191.97	15703.55	16034.23	-1751.03	1732779.83	14213403.96	39°08'20.4625"N	80°40'27.2862"W	16129.56	353.768	0.04
24543.00‡	88.740	340.540	7192.52	15728.54	16057.79	-1759.36	1732771.50	14213427.51	39°08'20.6958"N	80°40'27.3908"W	16153.89	353.747	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Van Wie 1221 N-6H AWB Ref Wellpath: Van Wie 1221 N-6H awp Proj: 24543'

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	2755.00	2730.00	25.00	2754.97	0.00	0.00	-4.80	8.01
9.625in Casing	25.00	7420.00	7395.00	25.00	6330.44	0.00	0.00	423.78	2678.83
5.5in Open Hole	25.00	24543.00	24518.00	25.00	7192.52	0.00	0.00	16057.79	-1759.36

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Actual Wellpath Report

Van Wie 1221 N-6H awp Proj: 24543'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-6H
Field	Lewis	API/Legal	
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-6H AWB
Slot	6H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-6H LP rev 2	7100.00	1491.54	3373.34	1737902.18	14198866.97	39°05'56.5395"N	80°39'22.9482"W	point
1221 N-6H 6000vs	7140.00	6898.01	1506.01	1736035.59	14204271.32	39°06'50.0450"N	80°39'46.3796"W	point
1221 N-6H BHL rev 2	7192.00	16056.22	-1763.17	1732767.69	14213425.94	39°08'20.6803"N	80°40'27.4392"W	point

WELLPATH COMPOSITION - Ref Wellbore: Van Wie 1221 N-6H AWB Ref Wellpath: Van Wie 1221 N-6H awp Proj: 24543'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1134.00	BH Generic gyro - northseeking (Standard)	1 SDI Keeper 18.5" 100' - 1134'	Van Wie 1221 N-6H AWB	11/29/2024
1134.00	2755.00	BH NaviTrak (2019) (Axial Corr+HRGM)	2 APS EM 17.5" 1254' - 2755'	Van Wie 1221 N-6H AWB	11/29/2024
2755.00	7420.00	BH NaviTrak (2019) (Axial Corr+HRGM)	3 APS EM 12.25" 2820' - 7420'	Van Wie 1221 N-6H AWB	11/29/2024
7420.00	24543.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC HRGM short spacing 8.5" 7483' - 24518'	Van Wie 1221 N-6H AWB	11/29/2024

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