

HG ENERGY II APPALACHIA, LLC

Location: Doddridge Co., WV
Field: Doddridge
Facility: 1221 North/South Pad

Slot: Slot 04
Well: 1221 N-4H
Wellbore: 1221 N-4H PWB

Plot reference wellbore is 1221 N-4H PWB (L-01)
True vertical depths are referenced to H&P 611 (RKB)
Reference wellbore measured depths are referenced to H&P 611 (RKB)
H&P 611 (RKB) to Mean Sea Level: 1276.77 feet
Mean Sea Level to Ground level (At Slot 04): -1251.77 feet
Offshore wellbore 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: managap on 2024-07-03, Database: V&A_MPL_EASTERNUS_Dat

Location Information

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1221 North/South Pad	1734473.600	14197328.830	39°05'41.4317"N	80°40'6.5262"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
Slot 04	29.52	33.96	1734507.540	14197356.340
H&P 611 (RKB) to Ground level (At Slot 04)				258
Mean Sea Level to Ground level (At Slot 04)				-1251.77ft
H&P 611 (RKB) to Mean Sea Level				1276.77ft

Well Profile Data

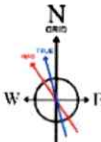
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	25.00	0.00	96.278	25.00	0.00	0.00	0.00	0.00
KOP	2620.00	0.00	96.278	2620.00	0.00	0.00	0.00	0.00
Tangent	3812.67	23.853	96.278	3778.52	-22.51	243.66	2.00	-101.74
Curve KOP	6310.56	23.853	96.278	6063.04	-115.43	1249.52	0.00	-521.73
Landing Pt.	7912.51	90.000	350.000	7035.00	891.63	1492.93	0.00	348.39
EOT	8382.46	90.000	340.601	7035.00	1345.69	1373.81	2.00	816.31
BHL	28038.44	90.000	340.601	7035.00	19885.77	-5154.83	0.00	20472.25

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
1221 N-4H BHL Rev-2	28038.44	7035.00	19885.77	-5154.83	14217234.32	39 5838.45567N	80 4110.6051W	
1221 N-4H LP Rev-2	7912.51	7035.00	891.63	1492.93	1735099.88	14198247.62	39 0550.4861N	80 3947.1164W

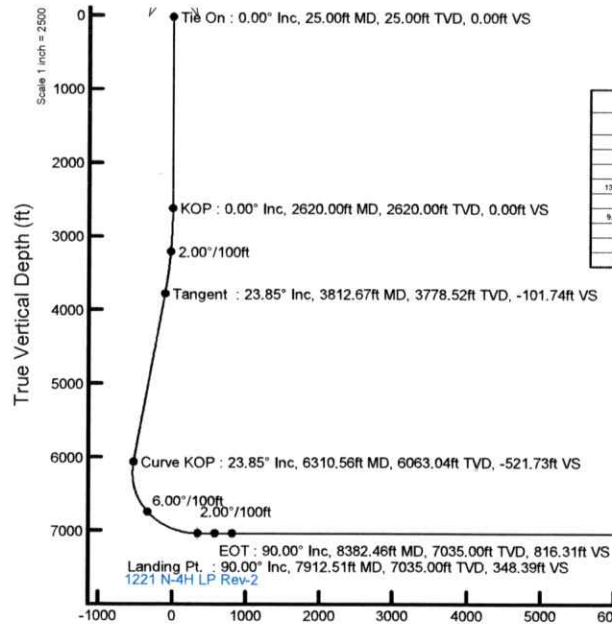
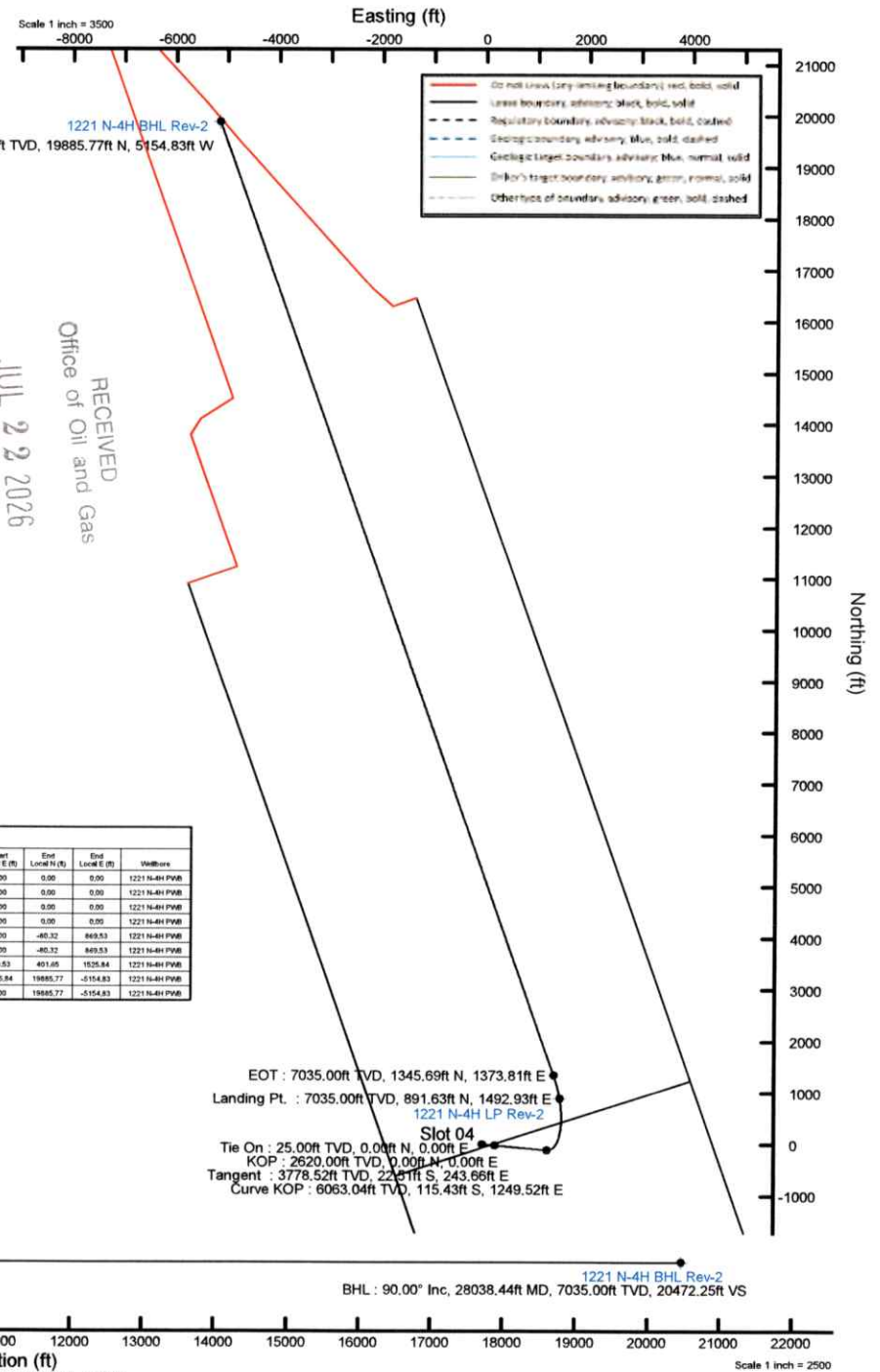
Survey Program

Start MD (ft)	End MD (ft)	Tie	Model	Log Interval (feet)	Wellbore
0.00	25.00	25.00	25.00	25.00	1221 N-4H PWB
25.00	2620.00	2620.00	2620.00	2620.00	1221 N-4H PWB
2620.00	7912.51	7912.51	7912.51	7912.51	1221 N-4H PWB
7912.51	8382.46	8382.46	8382.46	8382.46	1221 N-4H PWB
8382.46	28038.44	28038.44	28038.44	28038.44	1221 N-4H PWB



HGGM2024v1.0 (1900.0 to 2025.0) Dip: 65.67° Field: 51298 nT
Magnetic North is 8.10 degrees West of True North (at 7/2/2024)
Grid North is 0.21 degrees East of True North
To correct azimuth from True to Grid subtract 0.21 degrees
To correct azimuth from Magnetic to Grid subtract 8.31 degrees

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Hole and Casing Sections									
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)
20in Conductor	25.00	132.00	107.00	25.00	132.00	0.00	0.00	0.00	0.00
16.5in Open Hole	132.00	1962.00	1830.00	132.00	1962.00	0.00	0.00	0.00	0.00
17.5in Open Hole	1962.00	2480.00	518.00	1962.00	2480.00	0.00	0.00	0.00	0.00
13.375in Casing Intermediate	25.00	2480.00	2455.00	25.00	2480.00	0.00	0.00	0.00	0.00
12.25in Open Hole	2480.00	5366.91	2886.91	2480.00	5366.91	0.00	0.00	-40.32	869.53
9.625in Casing Intermediate	25.00	5366.91	5341.91	25.00	5366.91	0.00	0.00	-40.32	869.53
8.75in Open Hole	5366.91	7400.00	2033.09	5366.91	7400.00	0.00	0.00	-40.32	869.53
8.5in Open Hole	7400.00	28038.44	20638.44	6911.50	7035.00	401.65	1525.84	19885.77	-5154.83
5.5in Casing Production	25.00	28038.44	28013.44	25.00	7035.00	0.00	0.00	19885.77	-5154.83



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Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 1 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

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	5/30/2025 at 10:21:20 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	29.52	33.95	1734507.54	14197356.34	39°05'41.7277"N	80°40'6.0942"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 (4H)	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	340.71°



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Page 2 of 14



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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	359.060	0.00	0.00	0.00	0.00	1734507.54	14197356.34	39°05'41.7277"N	80°40'6.0942"W	0.00	0.000	0.00
25.00	0.000	359.060	25.00	0.00	0.00	0.00	1734507.54	14197356.34	39°05'41.7277"N	80°40'6.0942"W	0.00	0.000	0.00
100.00	0.360	359.060	100.00	0.22	0.24	0.00	1734507.54	14197356.58	39°05'41.7300"N	80°40'6.0942"W	0.24	359.060	0.48
125.00	0.530	356.580	125.00	0.41	0.43	-0.01	1734507.53	14197356.77	39°05'41.7319"N	80°40'6.0943"W	0.43	358.393	0.68
150.00	0.550	358.140	150.00	0.64	0.66	-0.02	1734507.52	14197357.00	39°05'41.7342"N	80°40'6.0944"W	0.67	358.032	0.10
175.00	0.570	355.910	175.00	0.87	0.91	-0.04	1734507.50	14197357.25	39°05'41.7367"N	80°40'6.0946"W	0.91	357.756	0.12
200.00	0.590	341.230	200.00	1.12	1.15	-0.09	1734507.45	14197357.49	39°05'41.7391"N	80°40'6.0952"W	1.16	355.746	0.60
225.00	0.570	352.030	224.99	1.37	1.40	-0.14	1734507.40	14197357.74	39°05'41.7415"N	80°40'6.0959"W	1.41	354.104	0.44
250.00	0.470	16.690	249.99	1.57	1.62	-0.13	1734507.41	14197357.96	39°05'41.7437"N	80°40'6.0958"W	1.63	355.333	0.97
275.00	0.340	31.640	274.99	1.70	1.78	-0.06	1734507.48	14197358.12	39°05'41.7453"N	80°40'6.0949"W	1.78	357.944	0.67
300.00	0.230	23.390	299.99	1.79	1.89	-0.01	1734507.53	14197358.23	39°05'41.7464"N	80°40'6.0942"W	1.89	359.844	0.47
325.00	0.210	30.120	324.99	1.85	1.98	0.04	1734507.58	14197358.32	39°05'41.7472"N	80°40'6.0936"W	1.98	1.094	0.13
350.00	0.150	40.060	349.99	1.90	2.04	0.08	1734507.62	14197358.38	39°05'41.7478"N	80°40'6.0930"W	2.04	2.294	0.27
375.00	0.070	52.630	374.99	1.92	2.08	0.12	1734507.65	14197358.42	39°05'41.7482"N	80°40'6.0926"W	2.08	3.170	0.33
400.00	0.060	64.600	399.99	1.93	2.09	0.14	1734507.68	14197358.43	39°05'41.7483"N	80°40'6.0923"W	2.10	3.802	0.07
425.00	0.060	88.640	424.99	1.93	2.10	0.16	1734507.70	14197358.44	39°05'41.7484"N	80°40'6.0920"W	2.10	4.468	0.10
450.00	0.170	89.180	449.99	1.91	2.10	0.21	1734507.75	14197358.44	39°05'41.7484"N	80°40'6.0914"W	2.11	5.825	0.44
475.00	0.260	88.940	474.99	1.88	2.10	0.31	1734507.85	14197358.44	39°05'41.7484"N	80°40'6.0902"W	2.12	8.341	0.36
500.00	0.180	90.130	499.99	1.85	2.10	0.40	1734507.94	14197358.44	39°05'41.7484"N	80°40'6.0890"W	2.14	10.882	0.32
525.00	0.120	119.790	524.99	1.82	2.09	0.47	1734508.01	14197358.43	39°05'41.7483"N	80°40'6.0882"W	2.14	12.579	0.38
550.00	0.070	92.610	549.99	1.79	2.07	0.50	1734508.04	14197358.41	39°05'41.7481"N	80°40'6.0877"W	2.13	13.655	0.26
575.00	0.050	135.440	574.99	1.78	2.07	0.53	1734508.07	14197358.40	39°05'41.7481"N	80°40'6.0874"W	2.13	14.307	0.19
600.00	0.090	103.840	599.99	1.75	2.05	0.55	1734508.09	14197358.39	39°05'41.7479"N	80°40'6.0871"W	2.13	15.088	0.22
625.00	0.050	136.950	624.99	1.73	2.04	0.58	1734508.12	14197358.38	39°05'41.7478"N	80°40'6.0867"W	2.12	15.868	0.22
650.00	0.090	207.700	649.99	1.71	2.01	0.58	1734508.12	14197358.35	39°05'41.7476"N	80°40'6.0867"W	2.10	16.013	0.35
675.00	0.100	215.160	674.99	1.68	1.98	0.56	1734508.10	14197358.32	39°05'41.7472"N	80°40'6.0870"W	2.06	15.703	0.06
700.00	0.090	226.150	699.99	1.66	1.95	0.53	1734508.07	14197358.29	39°05'41.7469"N	80°40'6.0874"W	2.02	15.215	0.08
725.00	0.080	221.940	724.99	1.65	1.92	0.50	1734508.04	14197358.26	39°05'41.7466"N	80°40'6.0877"W	1.99	14.697	0.05
750.00	0.170	204.120	749.99	1.61	1.87	0.48	1734508.02	14197358.21	39°05'41.7462"N	80°40'6.0880"W	1.93	14.281	0.39
775.00	0.190	224.870	774.99	1.57	1.81	0.43	1734507.97	14197358.15	39°05'41.7456"N	80°40'6.0886"W	1.86	13.437	0.27



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Page 3 of 14



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Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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	0.220	217.370	799.99	1.52	1.74	0.37	1734507.91	14197358.08	39°05'41.7449"N	80°40'6.0893"W	1.78	12.117	0.16
825.00	0.190	235.740	824.99	1.49	1.68	0.31	1734507.85	14197358.02	39°05'41.7443"N	80°40'6.0902"W	1.71	10.473	0.29
850.00	0.140	206.830	849.99	1.45	1.63	0.26	1734507.80	14197357.97	39°05'41.7438"N	80°40'6.0908"W	1.65	9.154	0.38
875.00	0.190	240.600	874.99	1.42	1.58	0.21	1734507.75	14197357.92	39°05'41.7433"N	80°40'6.0914"W	1.60	7.660	0.43
900.00	0.250	245.220	899.99	1.41	1.54	0.13	1734507.67	14197357.88	39°05'41.7429"N	80°40'6.0925"W	1.55	4.728	0.25
925.00	0.210	250.320	924.99	1.41	1.50	0.03	1734507.57	14197357.84	39°05'41.7425"N	80°40'6.0937"W	1.50	1.326	0.18
950.00	0.210	258.270	949.99	1.41	1.48	-0.05	1734507.49	14197357.82	39°05'41.7423"N	80°40'6.0948"W	1.48	357.939	0.12
975.00	0.220	261.820	974.99	1.43	1.46	-0.15	1734507.39	14197357.80	39°05'41.7421"N	80°40'6.0960"W	1.47	354.314	0.07
1000.00	0.210	240.510	999.99	1.43	1.43	-0.23	1734507.31	14197357.77	39°05'41.7418"N	80°40'6.0971"W	1.45	350.764	0.32
1025.00	0.220	222.440	1024.99	1.40	1.37	-0.31	1734507.23	14197357.71	39°05'41.7413"N	80°40'6.0980"W	1.41	347.481	0.27
1050.00	0.160	234.910	1049.99	1.37	1.32	-0.37	1734507.17	14197357.66	39°05'41.7407"N	80°40'6.0988"W	1.37	344.486	0.29
1075.00	0.160	241.680	1074.99	1.35	1.28	-0.43	1734507.11	14197357.62	39°05'41.7404"N	80°40'6.0995"W	1.35	341.646	0.08
1100.00	0.140	276.420	1099.99	1.36	1.27	-0.49	1734507.05	14197357.61	39°05'41.7402"N	80°40'6.1003"W	1.36	339.028	0.37
1120.00	0.220	288.800	1119.99	1.39	1.28	-0.55	1734506.99	14197357.62	39°05'41.7404"N	80°40'6.1011"W	1.40	336.926	0.44
1327.00	0.060	104.300	1326.99	1.58	1.39	-0.82	1734506.72	14197357.73	39°05'41.7414"N	80°40'6.1045"W	1.61	329.436	0.14
1421.00	0.330	120.160	1420.99	1.35	1.24	-0.54	1734507.00	14197357.58	39°05'41.7399"N	80°40'6.1009"W	1.35	336.558	0.29
1515.00	0.580	158.580	1514.98	0.66	0.66	-0.13	1734507.41	14197357.00	39°05'41.7342"N	80°40'6.0958"W	0.67	348.935	0.41
1609.00	0.590	148.990	1608.98	-0.29	-0.20	0.29	1734507.83	14197356.14	39°05'41.7257"N	80°40'6.0904"W	0.36	124.074	0.10
1703.00	0.100	118.880	1702.98	-0.82	-0.65	0.62	1734508.16	14197355.69	39°05'41.7212"N	80°40'6.0864"W	0.90	136.716	0.54
1797.00	0.130	183.420	1796.98	-0.98	-0.80	0.68	1734508.22	14197355.54	39°05'41.7197"N	80°40'6.0856"W	1.05	139.581	0.13
1892.00	0.120	291.770	1891.98	-1.01	-0.87	0.58	1734508.12	14197355.47	39°05'41.7190"N	80°40'6.0868"W	1.05	146.221	0.21
1986.00	0.240	47.620	1985.98	-0.87	-0.70	0.64	1734508.18	14197355.64	39°05'41.7207"N	80°40'6.0861"W	0.95	137.779	0.33
2081.00	0.090	142.500	2080.98	-0.86	-0.63	0.83	1734508.37	14197355.71	39°05'41.7214"N	80°40'6.0837"W	1.04	127.078	0.28
2177.00	0.150	130.570	2176.98	-1.04	-0.77	0.97	1734508.51	14197355.57	39°05'41.7200"N	80°40'6.0819"W	1.24	128.362	0.07
2271.00	0.150	80.920	2270.98	-1.17	-0.83	1.18	1734508.72	14197355.51	39°05'41.7194"N	80°40'6.0792"W	1.45	124.955	0.13
2365.00	0.040	340.310	2364.98	-1.16	-0.78	1.30	1734508.83	14197355.56	39°05'41.7199"N	80°40'6.0778"W	1.51	120.989	0.17
2460.00	0.040	342.610	2459.98	-1.10	-0.72	1.27	1734508.81	14197355.63	39°05'41.7206"N	80°40'6.0780"W	1.46	119.301	0.00
2481.00	0.100	259.180	2480.98	-1.09	-0.71	1.25	1734508.79	14197355.63	39°05'41.7206"N	80°40'6.0783"W	1.44	119.570	0.49
2552.00	0.090	116.740	2551.98	-1.12	-0.75	1.24	1734508.78	14197355.59	39°05'41.7202"N	80°40'6.0784"W	1.45	121.047	0.25
2647.00	0.400	163.980	2646.98	-1.50	-1.10	1.40	1734508.94	14197355.24	39°05'41.7167"N	80°40'6.0765"W	1.78	128.149	0.36



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Page 4 of 14



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

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2741.00	0.550	154.580	2740.97	-2.28	-1.82	1.69	1734509.22	14197354.52	39°05'41.7096"N	80°40'6.0729"W	2.48	137.254	0.18
2827.00	1.110	148.440	2826.96	-3.50	-2.91	2.30	1734509.84	14197353.44	39°05'41.6989"N	80°40'6.0652"W	3.71	141.658	0.66
2895.00	1.180	145.850	2894.95	-4.82	-4.05	3.04	1734510.58	14197352.29	39°05'41.6876"N	80°40'6.0558"W	5.06	143.119	0.13
2992.00	1.180	135.370	2991.93	-6.69	-5.58	4.30	1734511.84	14197350.76	39°05'41.6723"N	80°40'6.0399"W	7.05	142.411	0.22
3088.00	1.240	141.410	3087.91	-8.56	-7.10	5.64	1734513.18	14197349.24	39°05'41.6573"N	80°40'6.0230"W	9.07	141.531	0.15
3185.00	1.920	143.750	3184.87	-11.11	-9.23	7.26	1734514.79	14197347.11	39°05'41.6362"N	80°40'6.0026"W	11.74	141.827	0.70
3282.00	3.540	148.890	3281.76	-15.59	-13.10	9.76	1734517.30	14197343.24	39°05'41.5978"N	80°40'5.9709"W	16.34	143.309	1.69
3379.00	4.770	131.760	3378.50	-22.06	-18.36	14.32	1734521.86	14197337.99	39°05'41.5457"N	80°40'5.9134"W	23.28	142.039	1.79
3476.00	5.970	123.660	3475.08	-29.61	-23.84	21.53	1734529.06	14197332.51	39°05'41.4913"N	80°40'5.8222"W	32.12	137.914	1.46
3572.00	7.570	110.930	3570.41	-37.68	-28.86	31.59	1734539.12	14197327.49	39°05'41.4412"N	80°40'5.6948"W	42.79	132.417	2.28
3667.00	10.070	103.780	3664.28	-46.25	-33.08	45.50	1734553.03	14197323.27	39°05'41.3991"N	80°40'5.5185"W	56.26	126.014	2.87
3762.00	11.960	99.460	3757.53	-55.52	-36.68	63.28	1734570.80	14197319.68	39°05'41.3629"N	80°40'5.2932"W	73.14	120.094	2.17
3862.00	13.640	93.950	3855.04	-65.16	-39.19	85.27	1734592.77	14197317.16	39°05'41.3372"N	80°40'5.0145"W	93.84	114.684	2.07
3955.00	15.720	90.360	3945.01	-73.72	-40.03	108.81	1734616.31	14197316.33	39°05'41.3281"N	80°40'4.7159"W	115.94	110.196	2.44
4050.00	17.990	90.390	4035.92	-82.99	-40.21	136.35	1734643.84	14197316.15	39°05'41.3254"N	80°40'4.3666"W	142.16	106.429	2.39
4145.00	19.250	91.920	4125.95	-93.60	-40.83	166.68	1734674.15	14197315.53	39°05'41.3181"N	80°40'3.9820"W	171.60	103.765	1.42
4241.00	20.700	94.380	4216.17	-106.14	-42.66	199.41	1734706.87	14197313.70	39°05'41.2989"N	80°40'3.5669"W	203.92	102.074	1.75
4338.00	22.630	95.480	4306.31	-120.84	-45.75	235.08	1734742.53	14197310.61	39°05'41.2670"N	80°40'3.1146"W	239.49	101.012	2.03
4434.00	24.670	95.870	4394.25	-137.10	-49.56	273.40	1734780.84	14197306.80	39°05'41.2279"N	80°40'2.6287"W	277.86	100.275	2.13
4532.00	27.260	95.260	4482.35	-155.12	-53.71	316.10	1734823.52	14197302.65	39°05'41.1854"N	80°40'2.0873"W	320.64	99.643	2.66
4628.00	28.070	94.740	4567.37	-173.45	-57.59	360.51	1734867.91	14197298.77	39°05'41.1454"N	80°40'1.5243"W	365.08	99.077	0.88
4725.00	27.620	92.920	4653.14	-191.25	-60.62	405.71	1734913.09	14197295.74	39°05'41.1138"N	80°40'0.9511"W	410.21	98.499	0.99
4822.00	27.110	91.800	4739.29	-207.70	-62.46	450.25	1734957.62	14197293.90	39°05'41.0940"N	80°40'0.3862"W	454.57	97.898	0.75
4918.00	26.460	90.140	4824.99	-222.69	-63.20	493.51	1735000.85	14197293.16	39°05'41.0851"N	80°39'59.8376"W	497.54	97.298	1.03
5015.00	25.820	88.640	4912.07	-236.38	-62.76	536.23	1735043.56	14197293.61	39°05'41.0880"N	80°39'59.2957"W	539.89	96.675	0.95
5111.00	25.920	90.880	4998.45	-250.05	-62.58	578.12	1735085.43	14197293.78	39°05'41.0882"N	80°39'58.7645"W	581.49	96.178	1.02
5208.00	27.190	94.100	5085.22	-266.16	-64.49	621.42	1735128.72	14197291.87	39°05'41.0678"N	80°39'58.2153"W	624.76	95.925	1.98
5304.00	26.840	92.980	5170.74	-283.08	-67.19	664.94	1735172.22	14197289.18	39°05'41.0395"N	80°39'57.6634"W	668.33	95.770	0.64
5402.00	27.710	93.530	5257.85	-300.30	-69.74	709.78	1735217.04	14197286.63	39°05'41.0127"N	80°39'57.0948"W	713.20	95.612	0.92
5499.00	27.650	93.040	5343.75	-317.60	-72.32	754.76	1735262.01	14197284.05	39°05'40.9855"N	80°39'56.5244"W	758.22	95.473	0.24



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Van Wie 1221 N-4H awp Proj: 28124'
Page 5 of 14



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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

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5595.00	28.000	92.430	5428.65	-334.40	-74.46	799.52	1735306.75	14197281.91	39°05'40.9628"N	80°39'55.9568"W	802.98	95.321	0.47
5690.00	28.960	93.820	5512.15	-351.68	-76.94	844.75	1735351.96	14197279.43	39°05'40.9366"N	80°39'55.3832"W	848.25	95.204	1.23
5786.00	28.170	93.910	5596.46	-369.73	-80.03	890.55	1735397.74	14197276.34	39°05'40.9044"N	80°39'54.8025"W	894.14	95.135	0.82
5882.00	29.040	93.500	5680.74	-387.68	-83.00	936.42	1735443.59	14197273.37	39°05'40.8734"N	80°39'54.2209"W	940.09	95.065	0.93
5978.00	28.830	93.650	5764.76	-405.73	-85.89	982.77	1735489.93	14197270.48	39°05'40.8431"N	80°39'53.6330"W	986.52	94.995	0.23
6075.00	27.930	92.750	5850.10	-423.37	-88.47	1028.80	1735535.94	14197267.90	39°05'40.8159"N	80°39'53.0493"W	1032.60	94.915	1.03
6171.00	27.530	92.090	5935.08	-439.90	-90.36	1073.43	1735580.55	14197266.01	39°05'40.7956"N	80°39'52.4833"W	1077.23	94.812	0.53
6268.00	27.160	91.010	6021.24	-455.75	-91.57	1117.97	1735625.07	14197264.81	39°05'40.7821"N	80°39'51.9185"W	1121.71	94.682	0.64
6291.00	27.050	90.130	6041.71	-459.31	-91.67	1128.45	1735635.55	14197264.70	39°05'40.7806"N	80°39'51.7856"W	1132.17	94.644	1.81
6390.00	26.170	86.250	6130.23	-472.64	-90.30	1172.75	1735679.83	14197266.08	39°05'40.7926"N	80°39'51.2236"W	1176.22	94.403	1.97
6487.00	26.210	83.710	6217.28	-483.19	-86.55	1215.39	1735722.45	14197269.82	39°05'40.8281"N	80°39'50.6827"W	1218.46	94.073	1.16
6583.00	26.650	73.250	6303.29	-488.92	-78.02	1257.10	1735764.15	14197278.35	39°05'40.9109"N	80°39'50.1532"W	1259.52	93.551	4.87
6679.00	26.680	64.710	6389.11	-487.62	-62.60	1297.22	1735804.25	14197293.76	39°05'41.0618"N	80°39'49.6436"W	1298.73	92.763	3.99
6775.00	29.440	53.860	6473.87	-478.52	-39.46	1335.79	1735842.81	14197316.90	39°05'41.2891"N	80°39'49.1533"W	1336.37	91.692	6.03
6871.00	32.040	39.040	6556.50	-458.28	-5.71	1370.94	1735877.94	14197350.63	39°05'41.6214"N	80°39'48.7059"W	1370.95	90.239	8.32
6968.00	35.900	33.100	6636.95	-427.39	38.13	1402.70	1735909.69	14197394.45	39°05'42.0535"N	80°39'48.3010"W	1403.21	88.443	5.24
7063.00	39.820	24.430	6711.99	-388.37	89.21	1430.52	1735937.50	14197445.51	39°05'42.5574"N	80°39'47.9458"W	1433.30	86.432	6.95
7160.00	44.760	19.130	6783.75	-339.12	149.81	1454.58	1735961.55	14197506.09	39°05'43.1555"N	80°39'47.6377"W	1462.27	84.120	6.28
7256.00	49.420	14.480	6849.11	-282.29	217.10	1474.78	1735981.75	14197573.35	39°05'43.8198"N	80°39'47.3783"W	1490.68	81.626	6.01
7352.00	54.010	8.610	6908.61	-217.59	290.87	1489.73	1735996.69	14197647.10	39°05'44.5484"N	80°39'47.1852"W	1517.86	78.952	6.77
7449.00	60.180	3.980	6961.30	-144.15	371.76	1498.54	1736005.49	14197727.95	39°05'45.3476"N	80°39'47.0697"W	1543.96	76.067	7.52
7545.00	65.770	1.180	7004.91	-64.81	457.15	1502.33	1736009.28	14197813.31	39°05'46.1914"N	80°39'47.0175"W	1570.35	73.075	6.38
7641.00	70.220	356.920	7040.88	19.64	546.09	1500.81	1736007.76	14197902.22	39°05'47.0705"N	80°39'47.0327"W	1597.07	70.005	6.20
7738.00	75.960	356.600	7069.09	108.79	638.71	1495.56	1736002.51	14197994.80	39°05'47.9862"N	80°39'47.0949"W	1626.24	66.874	5.93
7835.00	80.260	357.130	7089.07	199.94	733.46	1490.37	1735997.33	14198089.52	39°05'48.9229"N	80°39'47.1563"W	1661.08	63.797	4.47
7931.00	86.030	356.290	7100.52	291.52	828.58	1484.90	1735991.86	14198184.59	39°05'49.8632"N	80°39'47.2212"W	1700.43	60.838	6.07
8028.00	85.660	353.010	7107.55	385.41	924.89	1475.88	1735982.84	14198280.87	39°05'50.8154"N	80°39'47.3310"W	1741.74	57.926	3.39
8125.00	90.060	350.230	7111.17	480.56	1020.75	1461.76	14198376.69	14198376.69	39°05'51.7634"N	80°39'47.5057"W	1782.88	55.073	5.36
8220.00	89.970	345.610	7111.15	574.78	1113.62	1441.88	1735948.86	14198469.53	39°05'52.6821"N	80°39'47.7534"W	1821.86	52.320	4.86
8317.00	89.910	342.010	7111.25	671.62	1206.76	1414.84	1735921.83	14198562.63	39°05'53.6036"N	80°39'48.0921"W	1859.58	49.538	3.71



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Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'
Page 6 of 14



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Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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]
8414.00	90.150	342.340	7111.20	768.59	1299.11	1385.15	1735892.14	14198654.94	39°05'54.5174"N	80°39'48.4644"W	1899.03	46.836	0.42
8509.00	90.150	342.120	7110.95	863.56	1389.57	1356.15	1735863.16	14198745.37	39°05'55.4126"N	80°39'48.8279"W	1941.67	44.303	0.23
8606.00	89.630	340.870	7111.14	960.54	1481.56	1325.37	1735832.39	14198837.31	39°05'56.3229"N	80°39'49.2141"W	1987.86	41.815	1.40
8703.00	89.320	340.470	7112.02	1057.54	1573.08	1293.26	1735800.30	14198928.81	39°05'57.2287"N	80°39'49.6170"W	2036.45	39.424	0.52
8799.00	89.630	343.560	7112.90	1153.50	1664.38	1263.63	1735770.67	14199020.06	39°05'58.1321"N	80°39'49.9886"W	2089.71	37.206	3.23
8896.00	89.510	341.250	7113.63	1250.45	1756.83	1234.31	1735741.36	14199112.48	39°05'59.0470"N	80°39'50.3562"W	2147.08	35.091	2.38
8992.00	88.650	340.390	7115.17	1346.43	1847.49	1202.77	1735709.84	14199203.10	39°05'59.9442"N	80°39'50.7520"W	2204.51	33.065	1.27
9088.00	89.540	341.520	7116.69	1442.42	1938.22	1171.45	1735678.53	14199293.80	39°05'59.8421"N	80°39'51.1450"W	2264.73	31.149	1.50
9185.00	88.980	341.520	7117.94	1539.40	2030.21	1140.71	1735647.80	14199385.75	39°06'1.7524"N	80°39'51.5307"W	2328.73	29.330	0.58
9282.00	88.770	341.400	7119.85	1636.37	2122.16	1109.87	1735616.98	14199477.67	39°06'2.6624"N	80°39'51.9175"W	2394.86	27.609	0.25
9378.00	89.050	341.980	7121.67	1732.34	2213.28	1079.72	1735586.83	14199568.75	39°06'3.5641"N	80°39'52.2957"W	2462.60	26.005	0.67
9474.00	89.260	341.490	7123.09	1828.31	2304.43	1049.63	1735556.76	14199659.87	39°06'4.4661"N	80°39'52.6731"W	2532.22	24.488	0.56
9570.00	89.170	342.350	7124.40	1924.28	2395.68	1019.84	1735526.98	14199751.09	39°06'5.3691"N	80°39'53.0467"W	2603.72	23.059	0.90
9667.00	89.750	341.790	7125.32	2021.25	2487.97	989.98	1735497.13	14199843.33	39°06'6.2823"N	80°39'53.4211"W	2677.69	21.698	0.83
9763.00	89.570	341.480	7125.89	2117.24	2579.08	959.74	1735466.90	14199934.41	39°06'7.1839"N	80°39'53.8005"W	2751.86	20.411	0.37
9859.00	89.450	340.810	7126.71	2213.23	2669.92	928.71	1735435.89	14200025.22	39°06'8.0829"N	80°39'54.1898"W	2826.83	19.180	0.71
9955.00	89.850	342.000	7127.30	2309.22	2760.91	898.10	1735405.29	14200116.16	39°06'8.9833"N	80°39'54.5739"W	2903.31	18.019	1.31
10051.00	89.320	340.340	7127.99	2405.21	2851.76	867.12	1735374.32	14200206.99	39°06'9.8825"N	80°39'54.9626"W	2980.68	16.913	1.82
10147.00	90.800	342.200	7127.89	2501.20	2942.67	836.29	1735343.51	14200297.86	39°06'10.7821"N	80°39'55.3494"W	3059.20	15.865	2.48
10243.00	89.600	341.740	7127.56	2597.17	3033.96	806.58	1735313.81	14200389.11	39°06'11.6854"N	80°39'55.7221"W	3139.34	14.888	1.34
10340.00	89.320	341.570	7128.47	2694.15	3126.02	776.05	1735283.29	14200481.14	39°06'12.5965"N	80°39'56.1050"W	3220.91	13.942	0.34
10436.00	89.570	338.430	7129.40	2790.13	3216.22	743.22	1735250.47	14200571.30	39°06'13.4892"N	80°39'56.5172"W	3300.97	13.012	3.28
10532.00	89.260	337.170	7130.38	2886.00	3305.09	706.95	1735214.22	14200660.14	39°06'14.3689"N	80°39'56.9732"W	3379.86	12.074	1.35
10628.00	90.220	339.620	7130.82	2981.91	3394.34	671.61	1735178.89	14200749.35	39°06'15.2523"N	80°39'57.4174"W	3460.15	11.192	2.74
10724.00	89.970	338.700	7130.66	3077.87	3484.06	637.46	1735144.75	14200839.03	39°06'16.1403"N	80°39'57.8464"W	3541.89	10.368	0.99
10821.00	89.570	338.890	7131.05	3174.82	3574.49	602.37	1735109.68	14200929.43	39°06'17.0354"N	80°39'58.2873"W	3624.89	9.566	0.46
10917.00	89.540	338.090	7131.79	3270.74	3663.80	567.17	1735074.49	14201018.70	39°06'17.9194"N	80°39'58.7296"W	3707.44	8.800	0.83
11014.00	89.450	338.590	7132.65	3367.66	3753.95	531.37	1735038.71	14201108.82	39°06'18.8117"N	80°39'59.1796"W	3791.37	8.057	0.52
11110.00	89.850	338.430	7133.23	3463.58	3843.27	496.21	1735003.55	14201198.11	39°06'19.6958"N	80°39'59.6215"W	3875.17	7.357	0.45
11206.00	89.660	338.860	7133.64	3559.52	3932.68	461.25	1734968.61	14201287.48	39°06'20.5808"N	80°40'0.0608"W	3959.64	6.689	0.49



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Page 7 of 14



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11303.00	90.120	339.190	7133.83	3656.48	4023.25	426.53	1734933.90	14201378.02	39°06'21.4772"N	80°40'0.4971"W	4045.80	6.052	0.58
11400.00	89.510	339.060	7134.14	3753.44	4113.88	391.96	1734899.35	14201468.61	39°06'22.3743"N	80°40'0.9313"W	4132.51	5.443	0.64
11495.00	89.880	338.850	7134.65	3848.39	4202.55	357.85	1734865.25	14201557.24	39°06'23.2518"N	80°40'1.3600"W	4217.75	4.867	0.45
11592.00	89.690	338.900	7135.01	3945.34	4293.03	322.89	1734830.30	14201647.68	39°06'24.1474"N	80°40'1.7992"W	4305.15	4.301	0.20
11688.00	89.230	338.070	7135.92	4041.27	4382.33	287.68	1734795.11	14201736.95	39°06'25.0313"N	80°40'2.2417"W	4391.76	3.756	0.99
11785.00	89.010	338.700	7137.41	4138.17	4472.50	251.96	1734759.40	14201827.09	39°06'25.9238"N	80°40'2.6907"W	4479.59	3.224	0.69
11882.00	89.690	341.250	7138.51	4235.15	4563.62	218.75	1734726.20	14201918.17	39°06'26.8256"N	80°40'3.1078"W	4568.86	2.744	2.72
11977.00	89.660	340.400	7139.05	4330.15	4653.35	187.54	1734695.01	14202007.87	39°06'27.7136"N	80°40'3.4995"W	4657.13	2.308	0.90
12086.00	89.480	340.750	7139.86	4439.14	4756.14	151.29	1734658.78	14202110.62	39°06'28.7309"N	80°40'3.9546"W	4758.55	1.822	0.36
12182.00	89.380	340.740	7140.82	4535.14	4846.77	119.64	1734627.13	14202201.21	39°06'29.6278"N	80°40'4.3520"W	4848.24	1.414	0.10
12278.00	89.110	340.550	7142.08	4631.13	4937.33	87.82	1734595.33	14202291.74	39°06'30.5240"N	80°40'4.7514"W	4938.11	1.019	0.34
12373.00	89.750	342.060	7143.03	4726.12	5027.31	57.38	1734564.89	14202381.68	39°06'31.4145"N	80°40'5.1335"W	5027.64	0.654	1.73
12470.00	89.750	341.650	7143.45	4823.10	5119.49	27.17	1734534.70	14202473.82	39°06'32.3266"N	80°40'5.5124"W	5119.56	0.304	0.42
12566.00	89.690	341.280	7143.92	4919.09	5210.51	-3.35	1734504.19	14202564.81	39°06'33.2273"N	80°40'5.8953"W	5210.51	359.963	0.39
12662.00	89.200	339.780	7144.85	5015.08	5301.01	-35.34	1734472.21	14202655.27	39°06'34.1230"N	80°40'6.2970"W	5301.13	359.618	1.64
12759.00	90.310	341.540	7145.27	5112.07	5392.53	-67.46	1734440.10	14202746.76	39°06'35.0287"N	80°40'6.7003"W	5392.95	359.283	2.15
12855.00	90.280	341.340	7144.77	5208.06	5483.54	-98.02	1734409.56	14202837.73	39°06'35.9293"N	80°40'7.0837"W	5484.41	358.976	0.21
12950.00	89.850	341.400	7144.66	5303.06	5573.56	-128.37	1734379.22	14202927.71	39°06'36.8202"N	80°40'7.4646"W	5575.04	358.681	0.46
13047.00	88.310	339.860	7146.22	5400.04	5665.05	-160.53	1734347.07	14203019.17	39°06'37.7256"N	80°40'7.8684"W	5667.33	358.377	2.25
13144.00	89.350	341.240	7148.20	5497.02	5756.49	-192.83	1734314.79	14203110.58	39°06'38.6306"N	80°40'8.2738"W	5759.72	358.081	1.78
13240.00	89.720	342.140	7148.98	5593.00	5847.63	-222.98	1734284.64	14203201.68	39°06'39.5324"N	80°40'8.6522"W	5851.88	357.816	1.01
13336.00	89.660	341.830	7149.50	5688.97	5938.92	-252.67	1734254.97	14203292.93	39°06'40.4358"N	80°40'9.0247"W	5944.29	357.564	0.33
13432.00	90.030	342.170	7149.76	5784.95	6030.22	-282.34	1734225.31	14203384.20	39°06'41.3393"N	80°40'9.3968"W	6036.83	357.319	0.52
13529.00	89.570	342.060	7150.10	5881.92	6122.53	-312.13	1734195.54	14203476.47	39°06'42.2527"N	80°40'9.7705"W	6130.48	357.082	0.49
13626.00	89.510	340.970	7150.88	5978.90	6214.52	-342.88	1734164.79	14203568.43	39°06'43.1630"N	80°40'10.1564"W	6223.98	356.842	1.13
13721.00	89.380	342.820	7151.80	6073.87	6304.81	-372.40	1734135.29	14203658.68	39°06'44.0565"N	80°40'10.5267"W	6315.80	356.620	1.95
13818.00	89.880	341.210	7152.43	6170.84	6397.07	-402.35	1734105.35	14203750.90	39°06'44.9694"N	80°40'10.9024"W	6409.71	356.401	1.74
13913.00	89.970	341.810	7152.55	6265.83	6487.16	-432.48	1734075.23	14203840.96	39°06'45.8610"N	80°40'11.2805"W	6501.56	356.186	0.64
14010.00	90.400	341.680	7152.24	6362.82	6579.28	-462.86	1734044.86	14203933.04	39°06'46.7725"N	80°40'11.6617"W	6595.54	355.976	0.46
14107.00	87.510	338.580	7154.01	6459.77	6670.47	-495.82	1734011.92	14204024.20	39°06'47.6750"N	80°40'12.0756"W	6688.87	355.749	4.37

JUL 22 2026

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Environmental Protection



Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 8 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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]
14204.00	90.220	342.120	7155.93	6556.73	6761.78	-528.42	1733979.33	14204115.47	39°06'48.5787"N	80°40'12.4850"W	6782.40	355.532	4.60
14300.00	90.090	338.630	7155.67	6652.71	6852.19	-560.66	1733947.10	14204205.84	39°06'49.4734"N	80°40'12.8899"W	6875.09	355.322	3.64
14397.00	90.180	341.090	7155.44	6749.69	6943.25	-594.05	1733913.72	14204296.87	39°06'50.3746"N	80°40'13.3094"W	6968.62	355.110	2.54
14494.00	90.310	340.830	7155.02	6846.69	7034.94	-625.70	1733882.09	14204388.53	39°06'51.2820"N	80°40'13.7066"W	7062.71	354.917	0.30
14588.00	89.780	341.440	7154.95	6940.69	7123.89	-656.09	1733851.71	14204477.44	39°06'52.1623"N	80°40'14.0881"W	7154.04	354.738	0.86
14684.00	89.820	341.140	7155.29	7036.68	7214.82	-686.88	1733820.93	14204568.33	39°06'53.0621"N	80°40'14.4746"W	7247.44	354.562	0.32
14781.00	89.850	341.300	7155.56	7133.68	7306.66	-718.11	1733789.71	14204660.13	39°06'53.9709"N	80°40'14.8666"W	7341.86	354.387	0.17
14877.00	89.630	340.830	7156.00	7229.67	7397.46	-749.26	1733758.57	14204750.90	39°06'54.8695"N	80°40'15.2577"W	7435.31	354.216	0.54
14973.00	89.510	341.310	7156.72	7325.67	7488.26	-780.41	1733727.44	14204841.67	39°06'55.7681"N	80°40'15.6486"W	7528.82	354.050	0.52
15070.00	89.970	342.070	7157.16	7422.65	7580.35	-810.88	1733696.98	14204933.72	39°06'56.6794"N	80°40'16.0310"W	7623.60	353.894	0.92
15166.00	89.940	342.780	7157.24	7518.61	7671.87	-839.87	1733668.00	14205025.20	39°06'57.5849"N	80°40'16.3946"W	7717.70	353.753	0.74
15263.00	90.310	343.430	7157.02	7615.52	7764.68	-868.06	1733639.82	14205117.98	39°06'58.5033"N	80°40'16.7480"W	7813.05	353.621	0.77
15360.00	89.880	341.490	7156.86	7712.47	7857.17	-897.29	1733610.60	14205210.43	39°06'59.4184"N	80°40'17.1146"W	7908.24	353.485	2.05
15456.00	89.570	339.860	7157.32	7808.47	7947.75	-929.05	1733578.85	14205300.98	39°07'0.3149"N	80°40'17.5135"W	8001.87	353.333	1.73
15552.00	89.820	339.520	7157.84	7904.45	8037.78	-962.38	1733545.54	14205390.97	39°07'1.2059"N	80°40'17.9321"W	8095.19	353.172	0.44
15649.00	89.420	339.260	7158.48	8001.42	8128.57	-996.52	1733511.41	14205481.73	39°07'2.1045"N	80°40'18.3612"W	8189.43	353.011	0.49
15746.00	89.450	339.970	7159.44	8098.40	8219.49	-1030.30	1733477.64	14205572.61	39°07'3.0043"N	80°40'18.7857"W	8283.82	352.855	0.73
15843.00	89.510	338.760	7160.32	8195.37	8310.27	-1064.49	1733443.47	14205663.35	39°07'3.9027"N	80°40'19.2152"W	8378.17	352.701	1.25
15940.00	89.600	339.260	7161.07	8292.32	8400.83	-1099.23	1733408.74	14205753.87	39°07'4.7990"N	80°40'19.6519"W	8472.44	352.545	0.52
16037.00	89.540	339.420	7161.80	8389.29	8491.59	-1133.45	1733374.53	14205844.60	39°07'5.6973"N	80°40'20.0819"W	8566.90	352.397	0.18
16134.00	89.200	338.840	7162.86	8486.25	8582.22	-1168.01	1733339.99	14205935.19	39°07'6.5943"N	80°40'20.5162"W	8661.33	352.250	0.69
16230.00	89.820	340.050	7163.69	8582.22	8672.10	-1201.71	1733306.30	14206025.04	39°07'7.4839"N	80°40'20.9397"W	8754.96	352.111	1.42
16327.00	90.150	341.040	7163.71	8679.22	8763.56	-1234.02	1733274.00	14206116.46	39°07'8.3890"N	80°40'21.3454"W	8850.02	351.985	1.08
16424.00	90.550	341.440	7163.12	8776.21	8855.40	-1265.21	1733242.82	14206208.27	39°07'9.2979"N	80°40'21.7370"W	8945.33	351.869	0.58
16520.00	89.540	340.070	7163.04	8872.21	8946.04	-1296.86	1733211.19	14206298.87	39°07'10.1948"N	80°40'22.1344"W	9039.55	351.752	1.77
16617.00	89.380	339.730	7163.96	8969.19	9037.12	-1330.19	1733177.87	14206389.92	39°07'11.0963"N	80°40'22.5531"W	9134.50	351.627	0.39
16713.00	89.110	338.710	7165.22	9065.15	9126.87	-1364.24	1733143.83	14206479.63	39°07'11.9845"N	80°40'22.9811"W	9228.27	351.499	1.10
16810.00	89.660	339.260	7166.26	9162.10	9217.41	-1399.03	1733109.06	14206570.14	39°07'12.8807"N	80°40'23.4183"W	9322.98	351.369	0.80
16907.00	89.850	339.340	7166.68	9259.07	9308.15	-1433.31	1733074.79	14206660.84	39°07'13.7787"N	80°40'23.8492"W	9417.86	351.246	0.21
17004.00	90.310	339.820	7166.54	9356.05	9399.05	-1467.16	1733040.96	14206751.71	39°07'14.6784"N	80°40'24.2745"W	9512.87	351.128	0.69



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JUL 22 2026

WV Department of
Environmental Protection

Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 9 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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]
17100.00	90.150	339.460	7166.16	9452.03	9489.05	-1500.56	1733007.57	14206841.68	39°07'15.5691"N	80°40'24.6942"W	9606.97	351.014	0.41
17195.00	90.370	339.880	7165.73	9547.02	9578.14	-1533.56	1732974.58	14206930.72	39°07'16.4508"N	80°40'25.1089"W	9700.13	350.904	0.50
17292.00	89.690	337.320	7165.67	9643.94	9668.44	-1568.95	1732939.20	14207020.99	39°07'17.3446"N	80°40'25.5538"W	9794.91	350.783	2.73
17389.00	90.340	339.000	7165.65	9740.84	9758.47	-1605.04	1732903.13	14207110.99	39°07'18.2357"N	80°40'26.0076"W	9889.59	350.660	1.86
17486.00	89.970	339.450	7165.39	9837.81	9849.17	-1639.44	1732868.74	14207201.65	39°07'19.1333"N	80°40'26.4400"W	9984.68	350.549	0.60
17582.00	89.480	340.260	7165.85	9933.80	9939.29	-1672.50	1732835.69	14207291.74	39°07'20.0253"N	80°40'26.8554"W	10079.03	350.448	0.99
17679.00	89.780	340.140	7166.47	10030.79	10030.55	-1705.36	1732802.85	14207382.96	39°07'20.9285"N	80°40'27.2681"W	10174.49	350.351	0.33
17776.00	89.350	339.170	7167.21	10127.77	10121.50	-1739.08	1732769.14	14207473.87	39°07'21.8285"N	80°40'27.6919"W	10269.82	350.251	1.09
17872.00	89.480	341.030	7168.19	10223.76	10211.76	-1771.76	1732736.48	14207564.10	39°07'22.7218"N	80°40'28.1024"W	10364.32	350.157	1.94
17968.00	89.570	340.290	7168.99	10319.75	10302.34	-1803.55	1732704.70	14207654.64	39°07'23.6182"N	80°40'28.5017"W	10459.01	350.070	0.78
18064.00	89.200	339.420	7170.02	10415.73	10392.46	-1836.61	1732671.65	14207744.73	39°07'24.5101"N	80°40'28.9170"W	10553.50	349.978	0.98
18161.00	89.540	339.070	7171.08	10512.70	10483.16	-1870.98	1732637.29	14207835.39	39°07'25.4077"N	80°40'29.3491"W	10648.81	349.881	0.50
18258.00	89.600	341.410	7171.81	10609.68	10574.44	-1903.77	1732604.52	14207926.63	39°07'26.3111"N	80°40'29.7610"W	10744.44	349.794	2.41
18352.00	89.600	341.700	7172.47	10703.67	10663.61	-1933.51	1732574.79	14208015.77	39°07'27.1935"N	80°40'30.1343"W	10837.48	349.723	0.31
18447.00	89.570	340.050	7173.16	10798.66	10753.36	-1964.63	1732543.68	14208105.48	39°07'28.0816"N	80°40'30.5252"W	10931.35	349.646	1.74
18544.00	89.350	341.200	7174.07	10895.66	10844.86	-1996.81	1732511.51	14208196.95	39°07'28.9871"N	80°40'30.9293"W	11027.16	349.567	1.21
18640.00	89.050	341.050	7175.41	10991.65	10935.69	-2027.86	1732480.47	14208287.74	39°07'29.8860"N	80°40'31.3192"W	11122.12	349.495	0.35
18737.00	90.150	341.740	7176.09	11088.64	11027.61	-2058.81	1732449.54	14208379.63	39°07'30.7956"N	80°40'31.7077"W	11218.15	349.425	1.34
18834.00	90.030	339.730	7175.94	11185.63	11119.18	-2090.81	1732417.55	14208471.16	39°07'31.7018"N	80°40'32.1097"W	11314.04	349.351	2.08
18931.00	90.150	341.330	7175.78	11282.63	11210.63	-2123.14	1732385.23	14208562.57	39°07'32.6068"N	80°40'32.5158"W	11409.90	349.276	1.65
19027.00	88.520	340.490	7176.90	11378.62	11301.34	-2154.54	1732353.85	14208653.25	39°07'33.5045"N	80°40'32.9100"W	11504.88	349.206	1.91
19124.00	89.600	341.310	7178.49	11475.60	11392.98	-2186.27	1732322.13	14208744.86	39°07'34.4114"N	80°40'33.3085"W	11600.86	349.137	1.40
19220.00	89.780	341.640	7179.01	11571.59	11484.01	-2216.77	1732291.64	14208835.85	39°07'35.3121"N	80°40'33.6915"W	11696.00	349.075	0.39
19316.00	89.630	340.430	7179.50	11667.58	11574.79	-2247.97	1732260.45	14208926.60	39°07'36.2105"N	80°40'34.0832"W	11791.06	349.009	1.27
19413.00	89.720	341.550	7180.05	11764.58	11666.50	-2279.56	1732228.87	14209018.27	39°07'37.1180"N	80°40'34.4800"W	11887.12	348.944	1.16
19510.00	89.720	341.550	7180.53	11861.57	11758.51	-2310.26	1732198.18	14209110.25	39°07'38.0286"N	80°40'34.8654"W	11983.32	348.884	0.00
19607.00	90.000	341.510	7180.76	11958.56	11850.52	-2340.99	1732167.47	14209202.21	39°07'38.9390"N	80°40'35.2512"W	12079.53	348.825	0.29
19703.00	89.970	339.130	7180.79	12054.55	11940.90	-2373.32	1732135.15	14209292.56	39°07'39.8335"N	80°40'35.6573"W	12174.47	348.759	2.48
19800.00	89.940	339.420	7180.87	12151.52	12031.63	-2407.65	1732100.84	14209383.25	39°07'40.7314"N	80°40'36.0888"W	12270.16	348.684	0.30
19897.00	90.120	342.080	7180.81	12248.51	12123.19	-2439.62	1732068.87	14209474.78	39°07'41.6375"N	80°40'36.4904"W	12366.23	348.622	2.75



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Page 10 of 14



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19993.00	89.910	340.820	7180.79	12344.50	12214.20	-2470.16	1732038.34	14209565.76	39°07'42.5381"N	80°40'36.8739"W	12461.48	348.567	1.33
20089.00	89.690	340.570	7181.12	12440.50	12304.81	-2501.90	1732006.62	14209656.32	39°07'43.4347"N	80°40'37.2725"W	12556.58	348.507	0.35
20186.00	89.690	339.440	7181.65	12537.49	12395.96	-2535.07	1731973.47	14209747.44	39°07'44.3368"N	80°40'37.6893"W	12652.52	348.442	1.16
20283.00	90.180	341.730	7181.76	12634.48	12487.43	-2567.31	1731941.24	14209838.88	39°07'45.2421"N	80°40'38.0943"W	12748.61	348.382	2.41
20378.00	89.600	341.040	7181.94	12729.47	12577.46	-2597.63	1731910.92	14209928.87	39°07'46.1330"N	80°40'38.4750"W	12842.91	348.331	0.95
20475.00	90.060	341.030	7182.23	12826.47	12669.20	-2629.16	1731879.41	14210020.57	39°07'47.0407"N	80°40'38.8709"W	12939.13	348.276	0.47
20571.00	90.120	340.990	7182.08	12922.47	12759.97	-2660.40	1731848.19	14210111.31	39°07'47.9390"N	80°40'39.2633"W	13034.36	348.223	0.08
20667.00	90.030	342.000	7181.95	13018.46	12851.01	-2690.86	1731817.73	14210202.31	39°07'48.8399"N	80°40'39.6458"W	13129.70	348.174	1.06
20763.00	89.720	341.360	7182.16	13114.45	12942.14	-2721.04	1731787.57	14210293.41	39°07'49.7417"N	80°40'40.0246"W	13225.09	348.127	0.74
20860.00	89.780	341.540	7182.59	13211.44	13034.10	-2751.90	1731756.72	14210385.33	39°07'50.6517"N	80°40'40.4121"W	13321.44	348.078	0.20
20957.00	89.690	341.400	7183.03	13308.43	13126.07	-2782.72	1731725.91	14210477.27	39°07'51.5618"N	80°40'40.7991"W	13417.80	348.031	0.17
21053.00	89.350	341.470	7183.84	13404.42	13217.07	-2813.29	1731695.36	14210568.23	39°07'52.4623"N	80°40'41.1829"W	13513.16	347.984	0.36
21150.00	89.350	341.730	7184.94	13501.40	13309.11	-2843.90	1731664.75	14210660.23	39°07'53.3730"N	80°40'41.5673"W	13609.56	347.938	0.27
21247.00	89.570	341.510	7185.85	13598.38	13401.15	-2874.49	1731634.18	14210752.24	39°07'54.2838"N	80°40'41.9513"W	13705.97	347.894	0.32
21344.00	89.200	340.540	7186.89	13695.37	13492.88	-2906.03	1731602.65	14210843.93	39°07'55.1915"N	80°40'42.3474"W	13802.27	347.846	1.07
21441.00	88.280	341.060	7189.03	13792.35	13584.46	-2937.92	1731570.77	14210935.47	39°07'56.0978"N	80°40'42.7480"W	13898.52	347.797	1.09
21538.00	89.170	341.630	7191.19	13889.32	13676.34	-2968.94	1731539.77	14211027.32	39°07'57.0070"N	80°40'43.1375"W	13994.88	347.752	1.09
21635.00	87.720	340.880	7193.82	13986.27	13768.16	-3000.10	1731508.62	14211119.10	39°07'57.9156"N	80°40'43.5288"W	14091.23	347.707	1.68
21731.00	90.310	340.980	7195.47	14082.25	13858.87	-3031.45	1731477.27	14211209.78	39°07'58.8132"N	80°40'43.9227"W	14186.54	347.662	2.70
21826.00	90.220	341.270	7195.03	14177.25	13948.76	-3062.19	1731446.55	14211299.63	39°07'59.7028"N	80°40'44.3086"W	14280.92	347.618	0.32
21923.00	89.510	341.460	7195.26	14274.24	14040.67	-3093.18	1731415.57	14211391.51	39°08'0.6123"N	80°40'44.6979"W	14377.35	347.576	0.76
22020.00	89.540	341.760	7196.06	14371.22	14132.71	-3123.78	1731384.98	14211483.51	39°08'1.5231"N	80°40'45.0821"W	14473.82	347.536	0.31
22115.00	89.940	341.770	7196.49	14466.21	14222.94	-3153.51	1731355.27	14211573.71	39°08'2.4159"N	80°40'45.4553"W	14568.34	347.499	0.42
22212.00	89.850	341.470	7196.67	14563.19	14314.99	-3184.09	1731324.69	14211665.72	39°08'3.3268"N	80°40'45.8393"W	14664.84	347.460	0.32
22309.00	90.220	343.260	7196.61	14660.15	14407.43	-3213.48	1731295.32	14211758.12	39°08'4.2415"N	80°40'46.2081"W	14761.45	347.426	1.88
22405.00	89.720	340.330	7196.66	14756.12	14498.61	-3243.47	1731265.34	14211849.27	39°08'5.1437"N	80°40'46.5846"W	14856.98	347.390	3.10
22502.00	89.690	340.510	7197.16	14853.12	14590.00	-3275.97	1731232.85	14211940.63	39°08'6.0481"N	80°40'46.9930"W	14953.27	347.345	0.19
22598.00	89.480	340.220	7197.86	14949.11	14680.42	-3308.23	1731200.60	14212031.01	39°08'6.9429"N	80°40'47.3984"W	15048.56	347.301	0.37
22693.00	89.480	340.490	7198.72	15044.11	14769.89	-3340.17	1731168.68	14212120.44	39°08'7.8283"N	80°40'47.7997"W	15142.86	347.257	0.28
22790.00	89.510	340.170	7199.57	15141.10	14861.22	-3372.82	1731136.04	14212211.74	39°08'8.7322"N	80°40'48.2099"W	15239.15	347.213	0.33



JUL 22 2026

WV Department of
Environmental Protection

Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 11 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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]
22887.00	88.950	340.930	7200.88	15238.09	14952.68	-3405.11	1731103.76	14212303.16	39°08'9.6372"N	80°40'48.6157"W	15335.49	347.171	0.97
22984.00	88.830	340.260	7202.76	15335.07	15044.15	-3437.34	1731071.55	14212394.59	39°08'10.5424"N	80°40'49.0205"W	15431.84	347.130	0.70
23081.00	88.580	339.310	7204.95	15432.03	15135.15	-3470.84	1731038.06	14212485.56	39°08'11.4430"N	80°40'49.4417"W	15528.02	347.084	1.01
23176.00	88.680	340.040	7207.22	15526.99	15224.21	-3503.83	1731005.08	14212574.58	39°08'12.3244"N	80°40'49.8564"W	15622.21	347.039	0.78
23273.00	88.740	339.740	7209.40	15623.96	15315.27	-3537.17	1730971.75	14212665.61	39°08'13.2256"N	80°40'50.2755"W	15718.43	346.995	0.32
23370.00	90.150	341.060	7210.34	15720.95	15406.64	-3569.71	1730939.23	14212756.95	39°08'14.1298"N	80°40'50.6844"W	15814.79	346.955	1.99
23466.00	89.820	340.600	7210.37	15816.95	15497.32	-3601.23	1730907.72	14212847.59	39°08'15.0271"N	80°40'51.0804"W	15910.24	346.918	0.59
23563.00	89.480	340.530	7210.96	15913.94	15588.79	-3633.51	1730875.45	14212939.02	39°08'15.9323"N	80°40'51.4859"W	16006.65	346.879	0.36
23660.00	89.380	340.700	7211.93	16010.94	15680.29	-3665.70	1730843.27	14213030.48	39°08'16.8378"N	80°40'51.8904"W	16103.07	346.842	0.20
23755.00	89.480	340.700	7212.87	16105.93	15769.94	-3697.10	1730811.89	14213120.10	39°08'17.7250"N	80°40'52.2849"W	16197.52	346.806	0.11
23852.00	89.940	339.630	7213.36	16202.93	15861.19	-3730.01	1730778.99	14213211.31	39°08'18.6280"N	80°40'52.6985"W	16293.87	346.766	1.20
23949.00	90.550	340.820	7212.95	16299.92	15952.46	-3762.83	1730746.19	14213302.55	39°08'19.5313"N	80°40'53.1110"W	16390.24	346.728	1.38
24046.00	90.740	340.620	7211.85	16396.91	16044.02	-3794.86	1730714.17	14213394.07	39°08'20.4373"N	80°40'53.5134"W	16486.70	346.693	0.28
24143.00	89.540	339.380	7211.62	16493.90	16135.16	-3828.03	1730681.01	14213485.18	39°08'21.3393"N	80°40'53.9303"W	16583.04	346.653	1.78
24240.00	89.630	340.340	7212.32	16590.89	16226.23	-3861.43	1730647.63	14213576.21	39°08'22.2405"N	80°40'54.3501"W	16679.36	346.614	0.99
24337.00	89.290	340.250	7213.23	16687.88	16317.54	-3894.13	1730614.93	14213667.49	39°08'23.1442"N	80°40'54.7612"W	16775.77	346.578	0.36
24433.00	89.290	340.350	7214.42	16783.87	16407.92	-3926.49	1730582.59	14213757.83	39°08'24.0385"N	80°40'55.1678"W	16871.19	346.542	0.10
24530.00	89.350	340.370	7215.58	16880.86	16499.27	-3959.09	1730550.00	14213849.14	39°08'24.9426"N	80°40'55.5775"W	16967.62	346.507	0.07
24627.00	89.380	340.430	7216.65	16977.85	16590.64	-3991.63	1730517.48	14213940.48	39°08'25.8468"N	80°40'55.9864"W	17064.07	346.472	0.07
24724.00	89.110	339.980	7217.93	17074.84	16681.90	-4024.47	1730484.64	14214031.71	39°08'26.7499"N	80°40'56.3993"W	17160.49	346.437	0.54
24820.00	88.860	337.560	7219.63	17170.76	16771.37	-4059.23	1730449.90	14214121.14	39°08'27.6354"N	80°40'56.8364"W	17255.61	346.394	2.53
24917.00	88.830	340.480	7221.58	17267.69	16861.91	-4093.95	1730415.20	14214211.64	39°08'28.5315"N	80°40'57.2730"W	17351.78	346.353	3.01
25014.00	88.710	340.190	7223.67	17364.67	16953.23	-4126.58	1730382.57	14214302.93	39°08'29.4352"N	80°40'57.6832"W	17448.23	346.320	0.32
25110.00	88.860	340.750	7225.70	17460.64	17043.69	-4158.67	1730350.50	14214393.35	39°08'30.3303"N	80°40'58.0864"W	17543.71	346.288	0.60
25206.00	89.290	341.400	7227.25	17556.63	17134.48	-4189.80	1730319.38	14214484.11	39°08'31.2288"N	80°40'58.4775"W	17639.30	346.259	0.81
25303.00	88.860	341.070	7228.82	17653.61	17226.32	-4221.00	1730288.19	14214575.91	39°08'32.1375"N	80°40'58.8694"W	17735.92	346.232	0.56
25400.00	88.680	340.490	7230.90	17750.59	17317.89	-4252.92	1730256.28	14214667.44	39°08'33.0437"N	80°40'59.2705"W	17832.46	346.202	0.63
25496.00	88.340	337.720	7233.40	17846.51	17407.54	-4287.15	1730222.07	14214757.05	39°08'33.9310"N	80°40'59.7009"W	17927.69	346.164	2.91
25593.00	88.800	340.340	7235.82	17943.43	17498.07	-4321.85	1730187.39	14214847.56	39°08'34.8270"N	80°41'0.1374"W	18023.90	346.126	2.74
25689.00	88.830	340.410	7237.80	18039.41	17588.48	-4354.08	1730155.16	14214937.93	39°08'35.7217"N	80°41'0.5425"W	18119.40	346.096	0.08



JUL 22 2026

WV Department of
Environmental Protection

Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 12 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH DATA (326 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]
25786.00	88.770	340.490	7239.84	18136.39	17679.87	-4386.54	1730122.72	14215029.28	39°08'36.6260"N	80°41'0.9504"W	18215.91	346.066	0.10
25883.00	89.080	340.380	7241.65	18233.37	17771.25	-4419.01	1730090.26	14215120.63	39°08'37.5304"N	80°41'1.3585"W	18312.43	346.036	0.34
25980.00	88.890	340.220	7243.37	18330.35	17862.56	-4451.71	1730057.58	14215211.90	39°08'38.4339"N	80°41'1.7695"W	18408.93	346.006	0.26
26076.00	89.350	340.230	7244.85	18426.33	17952.89	-4484.18	1730025.12	14215302.19	39°08'39.3278"N	80°41'2.1777"W	18504.43	345.976	0.48
26173.00	88.800	340.320	7246.41	18523.32	18044.18	-4516.92	1729992.39	14215393.45	39°08'40.2313"N	80°41'2.5891"W	18600.94	345.946	0.57
26270.00	88.370	340.610	7248.81	18620.29	18135.57	-4549.34	1729959.98	14215484.80	39°08'41.1357"N	80°41'2.9966"W	18697.47	345.918	0.53
26366.00	88.030	340.080	7251.82	18716.24	18225.93	-4581.61	1729927.72	14215575.13	39°08'42.0299"N	80°41'3.4023"W	18792.97	345.889	0.66
26462.00	88.680	341.540	7254.58	18812.19	18316.56	-4613.16	1729896.19	14215665.72	39°08'42.9267"N	80°41'3.7986"W	18888.55	345.864	1.66
26559.00	88.400	340.660	7257.05	18909.16	18408.30	-4644.57	1729864.79	14215757.42	39°08'43.8345"N	80°41'4.1932"W	18985.19	345.839	0.95
26656.00	88.830	340.660	7259.40	19006.13	18499.80	-4676.68	1729832.69	14215848.89	39°08'44.7400"N	80°41'4.5968"W	19081.77	345.813	0.44
26753.00	88.710	340.620	7261.48	19103.11	18591.29	-4708.83	1729800.56	14215940.34	39°08'45.6454"N	80°41'5.0008"W	19178.35	345.787	0.13
26850.00	88.740	340.640	7263.64	19200.08	18682.78	-4740.99	1729768.41	14216031.80	39°08'46.5507"N	80°41'5.4051"W	19274.94	345.761	0.04
26946.00	88.370	340.330	7266.06	19296.05	18773.23	-4773.05	1729736.36	14216122.22	39°08'47.4459"N	80°41'5.8080"W	19370.50	345.735	0.50
27043.00	88.340	340.110	7268.84	19393.01	18864.47	-4805.86	1729703.56	14216213.42	39°08'48.3488"N	80°41'6.2205"W	19467.01	345.708	0.23
27138.00	88.340	340.510	7271.59	19487.97	18953.88	-4837.86	1729671.58	14216302.79	39°08'49.2335"N	80°41'6.6226"W	19561.55	345.681	0.42
27234.00	88.520	340.480	7274.22	19583.93	19044.34	-4869.90	1729639.55	14216393.21	39°08'50.1287"N	80°41'7.0254"W	19657.13	345.656	0.19
27331.00	88.710	340.550	7276.57	19680.90	19135.75	-4902.24	1729607.22	14216484.60	39°08'51.0333"N	80°41'7.4319"W	19753.71	345.631	0.21
27427.00	88.770	340.300	7278.68	19776.88	19226.18	-4934.40	1729575.07	14216574.99	39°08'51.9282"N	80°41'7.8361"W	19849.29	345.606	0.27
27523.00	89.110	340.410	7280.46	19872.86	19316.58	-4966.67	1729542.82	14216665.35	39°08'52.8228"N	80°41'8.2417"W	19944.88	345.580	0.37
27619.00	89.200	340.470	7281.87	19968.85	19407.03	-4998.81	1729510.69	14216755.77	39°08'53.7179"N	80°41'8.6456"W	20040.48	345.556	0.11
27716.00	89.290	341.100	7283.15	20065.84	19498.62	-5030.73	1729478.78	14216847.32	39°08'54.6242"N	80°41'9.0468"W	20137.14	345.533	0.66
27813.00	89.140	340.660	7284.48	20162.83	19590.26	-5062.50	1729447.03	14216938.92	39°08'55.5310"N	80°41'9.4460"W	20233.81	345.511	0.48
27909.00	89.200	340.110	7285.87	20258.82	19680.68	-5094.72	1729414.82	14217029.31	39°08'56.4258"N	80°41'9.8511"W	20329.42	345.486	0.58
28006.00	88.710	340.570	7287.64	20355.80	19772.01	-5127.35	1729382.20	14217120.60	39°08'57.3296"N	80°41'10.2613"W	20426.01	345.462	0.69
28098.00	88.740	340.540	7289.69	20447.77	19858.74	-5157.97	1729351.59	14217207.30	39°08'58.1879"N	80°41'10.6461"W	20517.65	345.440	0.05
28124.00†	88.740	340.540	7290.26	20473.77	19883.25	-5166.63	1729342.94	14217231.80	39°08'58.4304"N	80°41'10.7550"W	20543.55	345.434	0.00



Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 13 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

HOLE & CASING SECTIONS - Ref Wellbore: Van Wie 1221 N-4H AWB Ref Wellpath: Van Wie 1221 N-4H awp Proj: 28124'

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	2741.00	2716.00	25.00	2740.97	0.00	0.00	-1.82	1.69
9.625in Casing	25.00	6367.00	6342.00	25.00	6109.61	0.00	0.00	-90.88	1162.59

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-4H LP rev 2	7110.00	891.63	1492.93	1735999.88	14198247.62	39°05'50.4861"N	80°39'47.1164"W	point
1221 N-4H 5500vs	7148.00	5764.01	-182.04	1734325.57	14203118.09	39°06'38.7045"N	80°40'8.1367"W	point
1221 N-4H 14000vs	7165.00	13781.44	-3005.28	1731503.44	14211132.38	39°07'58.0471"N	80°40'43.5940"W	point
1221 N-4H 17000vs	7192.00	16611.13	-4001.71	1730507.40	14213960.96	39°08'26.0496"N	80°40'56.1135"W	point
1221 N-4H 19500vs	7249.00	18969.20	-4832.07	1729677.36	14216318.11	39°08'49.3848"N	80°41'6.5485"W	point
1221 N-4H BHL rev 2	7288.00	19885.77	-5154.83	1729354.73	14217234.32	39°08'58.4550"N	80°41'10.6051"W	point

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Actual Wellpath Report

Van Wie 1221 N-4H awp Proj: 28124'

Page 14 of 14



REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-4H
Field	Lewis	API	47041057630000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-4H AWB
Slot	4H		

WELLPATH COMPOSITION - Ref Wellbore: Van Wie 1221 N-4H AWB Ref Wellpath: Van Wie 1221 N-4H awp Proj: 28124'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1120.00	BH Generic gyro - northseeking (Standard)	1 SDI Keeper 18.5" 100' - 1120'	Van Wie 1221 N-4H AWB	11/29/2024
1120.00	2741.00	BH NaviTrak (2019) (Axial Corr+HRGM)	2 APS EM 17.5" 1327' - 2741'	Van Wie 1221 N-4H AWB	11/29/2024
2741.00	6291.00	BH NaviTrak (2019) (Axial Corr+HRGM)	3 APS EM 12.25" 2827' - 6291'	Van Wie 1221 N-4H AWB	11/29/2024
6291.00	11977.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC HRGM short spacing 8.5" 6390' - 11977'	Van Wie 1221 N-4H AWB	11/29/2024
11977.00	28124.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	5 BH ATC HRGM short spacing 8.5" 12086' - 28098'	Van Wie 1221 N-4H AWB	5/25/2025

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