



HG ENERGY II APPALACHIA, LLC



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

Slot: 2H
Well: Van Wie 1221 N-2H
Wellbore: Van Wie 1221 N-2H AWB

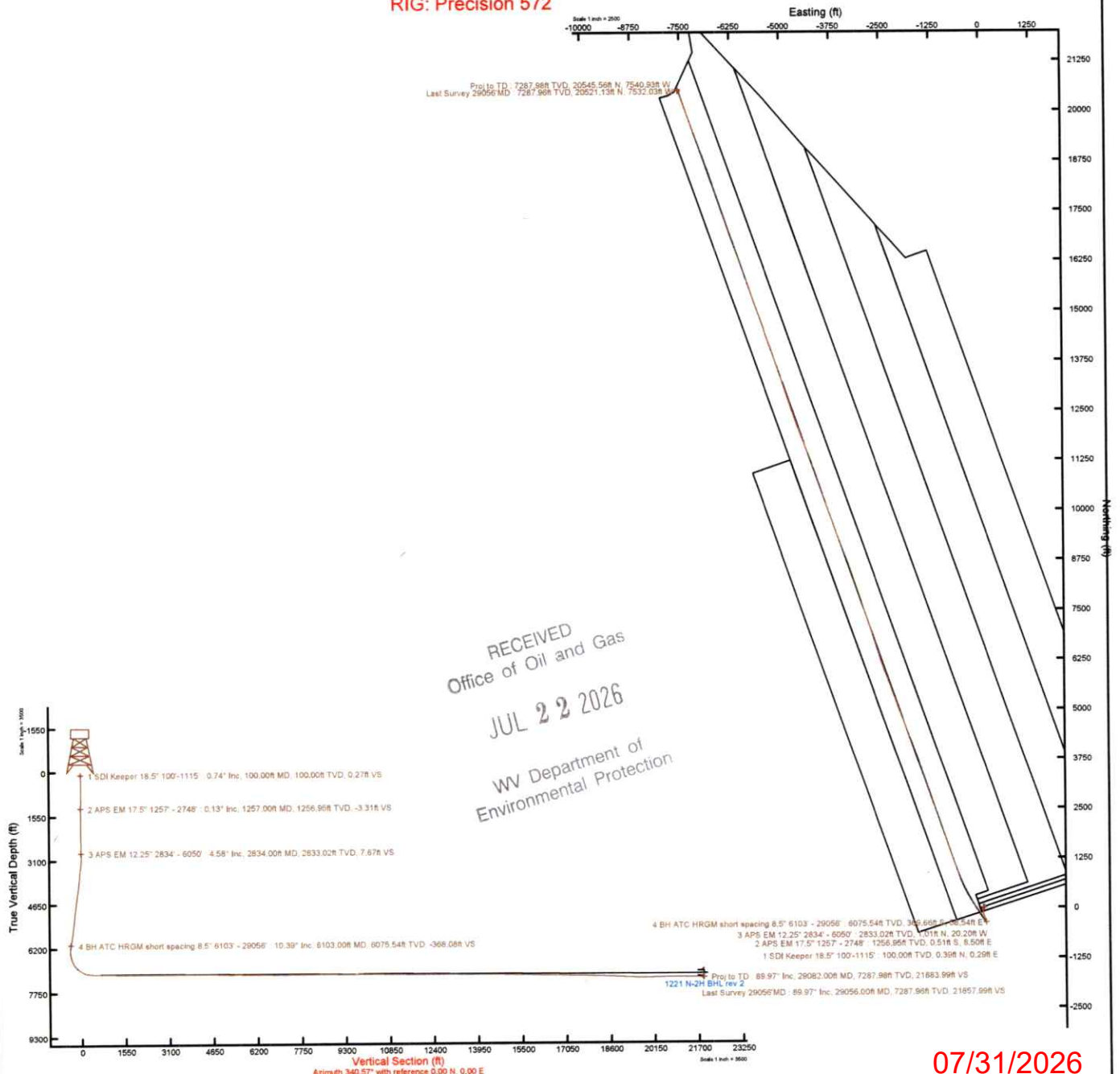
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Van Wie 1221 Pad			1734473.600	14197326.830	39°05'41.4371"N	80°40'6.5262"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
2H	9.84	11.31	1734484.910	14197336.670	39°05'41.5340"N	80°40'6.3822"W
Precision 572 (RKB) to Mud line (At Slot: 2H)					25ft	
Mean Sea Level to Mud line (At Slot: 2H)					-1251.77ft	
Precision 572 (RKB) to Mean Sea Level					1276.77ft	
Plot reference wellpath is Van Wie 1221 N-2H awp Proj: 29082'				Grid System: NAD83 / UTM Zone 17 North, US feet		
True vertical depths are referenced to Precision 572 (RKB)				North Reference: Grid north		
Reference wellpath measured depths are referenced to Precision 572 (RKB)				Scale: True distance		
Precision 572 (RKB) to Mean Sea Level: 1276.77 feet				Coordinates are in feet referenced to Slot		
Mean Sea Level to Mud line (At Slot: 2H): -1251.77 feet				Depths are in feet		
Offset wellpath MDs are referenced to each path's default MD datum				Created by: tranlam on 2025-04-28; Database: WA_MPL_EASTERNUS_Defn		

Bottom Hole Location

MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
29082.00	89.970	340.000	7287.98	20545.56	-7540.93	1726946.94	14217874.18	39°09'4.8628"N	80°41'41.1531"W

API: 4704105761000
BH JOB: 112485866
DURATION: 2/1/2025 - 4/18/2025
RIG: Precision 572



07/31/2026



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Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

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	4/28/2025 at 3:15:39 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	9.84	11.31	1734484.91	14197336.67	39°05'41.5340"N	80°40'6.3822"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 (2H)	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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Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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	36.640	0.00	0.00	0.00	0.00	1734484.91	14197336.67	39°05'41.5340"N	80°40'6.3822"W	0.00	0.000	0.00
25.00	0.000	36.640	25.00	0.00	0.00	0.00	1734484.91	14197336.67	39°05'41.5340"N	80°40'6.3822"W	0.00	0.000	0.00
100.00	0.740	36.640	100.00	0.27	0.39	0.29	1734485.20	14197337.06	39°05'41.5378"N	80°40'6.3785"W	0.48	36.640	0.99
125.00	0.810	37.980	125.00	0.46	0.66	0.49	1734485.40	14197337.33	39°05'41.5405"N	80°40'6.3759"W	0.82	36.928	0.29
150.00	0.760	47.090	149.99	0.62	0.91	0.72	1734485.63	14197337.58	39°05'41.5430"N	80°40'6.3730"W	1.16	38.529	0.54
175.00	0.770	66.100	174.99	0.70	1.09	1.00	1734485.91	14197337.76	39°05'41.5447"N	80°40'6.3695"W	1.48	42.500	1.01
200.00	0.810	73.390	199.99	0.70	1.21	1.32	1734486.23	14197337.88	39°05'41.5459"N	80°40'6.3654"W	1.79	47.558	0.43
225.00	0.620	72.640	224.99	0.69	1.30	1.62	1734486.53	14197337.97	39°05'41.5468"N	80°40'6.3616"W	2.08	51.266	0.76
250.00	0.490	61.770	249.99	0.70	1.39	1.84	1734486.75	14197338.06	39°05'41.5477"N	80°40'6.3588"W	2.31	52.972	0.67
275.00	0.420	61.610	274.98	0.73	1.49	2.02	1734486.93	14197338.15	39°05'41.5486"N	80°40'6.3566"W	2.51	53.661	0.28
300.00	0.300	70.560	299.98	0.74	1.55	2.16	1734487.07	14197338.22	39°05'41.5492"N	80°40'6.3547"W	2.66	54.343	0.53
325.00	0.360	72.870	324.98	0.74	1.60	2.30	1734487.21	14197338.26	39°05'41.5497"N	80°40'6.3530"W	2.80	55.229	0.25
350.00	0.430	68.490	349.98	0.74	1.65	2.46	1734487.37	14197338.32	39°05'41.5502"N	80°40'6.3509"W	2.96	56.105	0.30
375.00	0.580	81.900	374.98	0.72	1.71	2.67	1734487.58	14197338.37	39°05'41.5507"N	80°40'6.3482"W	3.17	57.464	0.76
400.00	0.660	97.510	399.98	0.63	1.70	2.94	1734487.85	14197338.37	39°05'41.5507"N	80°40'6.3448"W	3.40	59.909	0.74
425.00	0.700	85.180	424.98	0.53	1.70	3.24	1734488.14	14197338.37	39°05'41.5507"N	80°40'6.3411"W	3.65	62.309	0.61
450.00	0.760	87.720	449.98	0.44	1.72	3.55	1734488.46	14197338.39	39°05'41.5508"N	80°40'6.3371"W	3.95	64.204	0.27
475.00	0.760	83.750	474.97	0.35	1.74	3.88	1734488.79	14197338.41	39°05'41.5511"N	80°40'6.3329"W	4.26	65.841	0.21
500.00	0.700	84.700	499.97	0.28	1.77	4.20	1734489.11	14197338.44	39°05'41.5514"N	80°40'6.3289"W	4.56	67.102	0.24
525.00	0.650	86.350	524.97	0.20	1.80	4.49	1734489.40	14197338.47	39°05'41.5516"N	80°40'6.3251"W	4.84	68.202	0.21
550.00	0.620	95.010	549.97	0.11	1.79	4.77	1734489.68	14197338.46	39°05'41.5516"N	80°40'6.3216"W	5.10	69.384	0.40
575.00	0.600	92.970	574.97	0.00	1.78	5.04	1734489.94	14197338.45	39°05'41.5514"N	80°40'6.3183"W	5.34	70.574	0.12
600.00	0.490	95.750	599.97	-0.10	1.76	5.27	1734490.18	14197338.43	39°05'41.5512"N	80°40'6.3153"W	5.56	71.557	0.45
625.00	0.570	101.200	624.97	-0.20	1.72	5.50	1734490.41	14197338.39	39°05'41.5508"N	80°40'6.3124"W	5.77	72.604	0.38
650.00	0.650	96.500	649.96	-0.33	1.68	5.76	1734490.67	14197338.35	39°05'41.5504"N	80°40'6.3090"W	6.01	73.720	0.38
675.00	0.640	91.270	674.96	-0.44	1.66	6.04	1734490.95	14197338.33	39°05'41.5502"N	80°40'6.3055"W	6.27	74.606	0.24
700.00	0.570	96.770	699.96	-0.55	1.65	6.31	1734491.22	14197338.32	39°05'41.5500"N	80°40'6.3021"W	6.52	75.370	0.36
725.00	0.490	86.570	724.96	-0.63	1.64	6.54	1734491.45	14197338.31	39°05'41.5500"N	80°40'6.2992"W	6.74	75.932	0.49
750.00	0.470	97.540	749.96	-0.71	1.63	6.75	1734491.65	14197338.30	39°05'41.5499"N	80°40'6.2966"W	6.94	76.407	0.38
775.00	0.540	114.400	774.96	-0.83	1.57	6.96	1734491.86	14197338.24	39°05'41.5493"N	80°40'6.2939"W	7.13	77.287	0.65



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Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'

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Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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	0.580	111.910	799.96	-1.00	1.47	7.18	1734492.09	14197338.14	39°05'41.5483"N	80°40'6.2911"W	7.33	78.405	0.19
825.00	0.540	110.310	824.96	-1.16	1.39	7.41	1734492.32	14197338.05	39°05'41.5474"N	80°40'6.2882"W	7.54	79.409	0.17
850.00	0.240	174.940	849.96	-1.28	1.29	7.52	1734492.43	14197337.96	39°05'41.5465"N	80°40'6.2867"W	7.63	80.254	1.95
875.00	0.200	184.040	874.96	-1.37	1.20	7.52	1734492.43	14197337.87	39°05'41.5455"N	80°40'6.2867"W	7.62	80.965	0.21
900.00	0.170	127.580	899.96	-1.45	1.13	7.55	1734492.46	14197337.80	39°05'41.5449"N	80°40'6.2864"W	7.64	81.487	0.71
925.00	0.160	134.230	924.96	-1.51	1.08	7.61	1734492.51	14197337.75	39°05'41.5444"N	80°40'6.2857"W	7.68	81.893	0.09
950.00	0.300	129.260	949.96	-1.60	1.02	7.68	1734492.59	14197337.69	39°05'41.5438"N	80°40'6.2848"W	7.75	82.454	0.57
975.00	0.300	157.930	974.95	-1.72	0.92	7.76	1734492.66	14197337.59	39°05'41.5428"N	80°40'6.2838"W	7.81	83.268	0.59
1000.00	0.310	164.310	999.95	-1.85	0.79	7.80	1734492.71	14197337.46	39°05'41.5415"N	80°40'6.2833"W	7.84	84.218	0.14
1025.00	0.240	130.930	1024.95	-1.96	0.69	7.86	1734492.76	14197337.36	39°05'41.5405"N	80°40'6.2825"W	7.89	84.979	0.69
1050.00	0.410	139.940	1049.95	-2.09	0.59	7.95	1734492.86	14197337.26	39°05'41.5395"N	80°40'6.2813"W	7.98	85.775	0.71
1075.00	0.480	138.350	1074.95	-2.27	0.44	8.08	1734492.99	14197337.11	39°05'41.5381"N	80°40'6.2797"W	8.09	86.878	0.28
1100.00	0.480	154.470	1099.95	-2.47	0.27	8.20	1734493.10	14197336.94	39°05'41.5363"N	80°40'6.2783"W	8.20	88.126	0.54
1115.00	0.450	162.400	1114.95	-2.59	0.16	8.24	1734493.15	14197336.83	39°05'41.5352"N	80°40'6.2777"W	8.24	88.921	0.47
1257.00	0.130	143.790	1256.95	-3.31	-0.51	8.50	1734493.41	14197336.16	39°05'41.5287"N	80°40'6.2744"W	8.52	93.406	0.23
1353.00	0.230	143.260	1352.95	-3.59	-0.75	8.68	1734493.59	14197335.92	39°05'41.5263"N	80°40'6.2721"W	8.72	94.926	0.10
1449.00	0.000	351.670	1448.95	-3.78	-0.90	8.80	1734493.71	14197335.77	39°05'41.5248"N	80°40'6.2707"W	8.85	95.859	0.24
1544.00	0.350	175.980	1543.95	-4.06	-1.19	8.82	1734493.73	14197335.48	39°05'41.5219"N	80°40'6.2704"W	8.90	97.699	0.37
1640.00	0.270	165.050	1639.95	-4.57	-1.70	8.90	1734493.81	14197334.97	39°05'41.5168"N	80°40'6.2694"W	9.06	100.836	0.10
1737.00	0.130	48.220	1736.95	-4.75	-1.85	9.04	1734493.95	14197334.82	39°05'41.5154"N	80°40'6.2677"W	9.23	101.571	0.36
1833.00	0.100	105.180	1832.95	-4.76	-1.80	9.20	1734494.11	14197334.87	39°05'41.5159"N	80°40'6.2656"W	9.38	101.069	0.12
1926.00	0.100	64.340	1925.95	-4.80	-1.79	9.35	1734494.26	14197334.88	39°05'41.5160"N	80°40'6.2637"W	9.52	100.812	0.08
2022.00	0.160	111.120	2021.95	-4.87	-1.80	9.55	1734494.46	14197334.87	39°05'41.5159"N	80°40'6.2611"W	9.72	100.660	0.12
2119.00	0.030	214.220	2118.95	-4.98	-1.87	9.67	1734494.57	14197334.80	39°05'41.5152"N	80°40'6.2597"W	9.85	100.939	0.17
2216.00	0.000	351.670	2215.95	-4.99	-1.89	9.65	1734494.56	14197334.78	39°05'41.5150"N	80°40'6.2599"W	9.83	101.075	0.03
2311.00	0.770	285.980	2310.94	-4.62	-1.71	9.04	1734493.94	14197334.96	39°05'41.5167"N	80°40'6.2677"W	9.20	100.735	0.81
2408.00	1.880	286.430	2407.92	-3.31	-1.08	6.89	1734491.79	14197335.59	39°05'41.5230"N	80°40'6.2949"W	6.97	98.947	1.14
2505.00	3.350	277.200	2504.81	-1.11	-0.28	2.55	1734487.46	14197336.39	39°05'41.5311"N	80°40'6.3499"W	2.56	96.244	1.57
2602.00	4.050	276.200	2601.61	1.64	0.45	-3.67	1734481.24	14197337.12	39°05'41.5385"N	80°40'6.4288"W	3.70	276.936	0.72
2699.00	3.910	271.710	2698.38	4.32	0.92	-10.38	1734474.53	14197337.58	39°05'41.5434"N	80°40'6.5139"W	10.42	275.038	0.35



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2748.00	4.010	270.040	2747.26	5.49	0.97	-13.76	1734471.15	14197337.64	39°05'41.5440"N	80°40'6.5568"W	13.80	274.015	0.31
2834.00	4.580	270.690	2833.02	7.67	1.01	-20.20	1734464.71	14197337.68	39°05'41.5447"N	80°40'6.6385"W	20.23	272.861	0.67
2886.00	4.720	268.220	2884.85	9.04	0.97	-24.42	1734460.50	14197337.64	39°05'41.5444"N	80°40'6.6919"W	24.44	272.270	0.47
2983.00	4.820	249.950	2981.52	10.20	-0.55	-32.24	1734452.69	14197336.12	39°05'41.5297"N	80°40'6.7911"W	32.24	269.017	1.56
3080.00	6.180	221.740	3078.08	7.64	-5.85	-39.54	1734445.38	14197330.83	39°05'41.4776"N	80°40'6.8840"W	39.97	261.588	3.08
3176.00	7.690	207.390	3173.39	0.75	-15.41	-45.94	1734438.99	14197321.27	39°05'41.3834"N	80°40'6.9656"W	48.45	251.459	2.38
3273.00	8.550	191.270	3269.43	-9.89	-28.24	-50.33	1734434.60	14197308.44	39°05'41.2567"N	80°40'7.0220"W	57.72	240.703	2.50
3370.00	8.730	183.230	3365.33	-22.88	-42.66	-52.16	1734432.77	14197294.02	39°05'41.1142"N	80°40'7.0458"W	67.39	230.717	1.26
3467.00	7.420	178.780	3461.37	-35.63	-56.28	-52.44	1734432.49	14197280.42	39°05'40.9797"N	80°40'7.0500"W	76.92	222.978	1.50
3563.00	5.890	163.560	3556.72	-46.44	-67.20	-50.91	1734434.02	14197269.50	39°05'40.8716"N	80°40'7.0311"W	84.31	217.149	2.42
3660.00	5.690	152.780	3653.23	-56.17	-76.25	-47.31	1734437.62	14197260.45	39°05'40.7821"N	80°40'6.9858"W	89.73	211.815	1.14
3761.00	5.600	152.200	3753.74	-66.01	-85.06	-42.72	1734442.21	14197251.64	39°05'40.6948"N	80°40'6.9280"W	95.19	206.665	0.11
3857.00	5.820	149.220	3849.26	-75.41	-93.39	-38.04	1734446.88	14197243.32	39°05'40.6123"N	80°40'6.8691"W	100.84	202.164	0.38
3954.00	6.110	157.820	3945.74	-85.39	-102.39	-33.58	1734451.35	14197234.32	39°05'40.5232"N	80°40'6.8128"W	107.76	198.155	0.97
4050.00	6.600	161.720	4041.15	-96.01	-112.36	-29.92	1734455.01	14197224.35	39°05'40.4245"N	80°40'6.7669"W	116.28	194.909	0.68
4147.00	7.870	166.580	4137.38	-108.19	-124.12	-26.63	1734458.29	14197212.60	39°05'40.3082"N	80°40'6.7257"W	126.94	192.108	1.45
4243.00	8.410	169.040	4232.41	-121.67	-137.40	-23.77	1734461.15	14197199.32	39°05'40.1768"N	80°40'6.6900"W	139.44	189.813	0.67
4340.00	8.260	167.680	4328.39	-135.60	-151.17	-20.93	1734463.99	14197185.56	39°05'40.0406"N	80°40'6.6547"W	152.61	187.883	0.26
4437.00	9.060	165.490	4424.28	-150.12	-165.37	-17.53	1734467.39	14197171.36	39°05'39.9001"N	80°40'6.6122"W	166.30	186.051	0.89
4537.00	7.920	164.750	4523.18	-164.84	-179.64	-13.75	1734471.17	14197157.10	39°05'39.7589"N	80°40'6.5649"W	180.17	184.376	1.15
4634.00	6.580	158.020	4619.41	-177.06	-191.25	-9.91	1734475.01	14197145.50	39°05'39.6441"N	80°40'6.5167"W	191.50	182.966	1.63
4731.00	6.970	157.230	4715.73	-188.49	-201.83	-5.55	1734479.36	14197134.92	39°05'39.5394"N	80°40'6.4620"W	201.90	181.575	0.41
4826.00	6.960	158.320	4810.03	-199.99	-212.49	-1.19	1734483.72	14197124.26	39°05'39.4338"N	80°40'6.4072"W	212.49	180.321	0.14
4923.00	7.650	154.210	4906.24	-212.28	-223.76	3.79	1734488.70	14197112.99	39°05'39.3222"N	80°40'6.3445"W	223.80	179.030	0.89
5020.00	6.630	154.530	5002.49	-224.27	-234.63	9.01	1734493.91	14197102.13	39°05'39.2146"N	80°40'6.2789"W	234.81	177.802	1.05
5116.00	6.660	155.200	5097.84	-235.32	-244.69	13.72	1734498.63	14197092.08	39°05'39.1150"N	80°40'6.2195"W	245.07	176.790	0.09
5212.00	6.810	155.680	5193.18	-246.53	-254.93	18.40	1734503.31	14197081.84	39°05'39.0137"N	80°40'6.1606"W	255.59	175.871	0.17
5309.00	7.140	151.710	5289.46	-258.22	-265.48	23.63	1734508.53	14197071.30	39°05'38.9092"N	80°40'6.0948"W	266.53	174.914	0.60
5404.00	6.480	155.950	5383.79	-269.40	-275.57	28.61	1734513.51	14197061.20	39°05'38.8092"N	80°40'6.0321"W	277.05	174.073	0.87
5501.00	6.260	159.190	5480.19	-280.14	-285.52	32.72	1734517.62	14197051.27	39°05'38.7108"N	80°40'5.9804"W	287.38	173.462	0.43



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Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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]
5598.00	6.490	167.110	5576.60	-290.87	-295.80	35.82	1734520.72	14197040.98	39°05'38.6090"N	80°40'5.9416"W	297.96	173.095	0.94
5694.00	7.470	166.160	5671.88	-302.47	-307.15	38.53	1734523.42	14197029.64	39°05'38.4968"N	80°40'5.9078"W	309.56	172.851	1.03
5791.00	8.610	164.400	5767.93	-315.99	-320.27	41.99	1734526.88	14197016.53	39°05'38.3670"N	80°40'5.8645"W	323.01	172.531	1.20
5888.00	9.730	163.240	5863.69	-331.43	-335.11	46.30	1734531.19	14197001.69	39°05'38.2202"N	80°40'5.8105"W	338.29	172.133	1.17
5985.00	9.580	160.740	5959.31	-347.69	-350.58	51.33	1734536.22	14196986.23	39°05'38.0671"N	80°40'5.7474"W	354.32	171.670	0.46
6050.00	9.970	159.270	6023.37	-358.72	-360.95	55.10	1734539.99	14196975.86	39°05'37.9645"N	80°40'5.7000"W	365.13	171.320	0.71
6103.00	10.390	157.730	6075.54	-368.08	-369.66	58.54	1734543.43	14196967.15	39°05'37.8782"N	80°40'5.6568"W	374.27	171.001	0.94
6200.00	7.220	157.280	6171.38	-382.91	-383.38	64.21	1734549.10	14196953.44	39°05'37.7424"N	80°40'5.5856"W	388.72	170.492	3.27
6297.00	0.130	167.510	6268.12	-389.11	-389.12	66.59	1734551.48	14196947.70	39°05'37.6856"N	80°40'5.5556"W	394.77	170.289	7.31
6393.00	6.650	338.280	6363.91	-383.66	-384.05	64.56	1734549.44	14196952.77	39°05'37.7357"N	80°40'5.5812"W	389.44	170.458	7.06
6490.00	11.850	319.670	6459.63	-368.73	-371.23	56.02	1734540.91	14196965.58	39°05'37.8628"N	80°40'5.6888"W	375.44	171.418	6.12
6587.00	17.450	323.180	6553.44	-345.52	-351.98	40.85	1734525.74	14196984.83	39°05'38.0536"N	80°40'5.8804"W	354.34	173.380	5.84
6684.00	24.840	322.220	6643.85	-312.26	-324.20	19.62	1734504.52	14197012.60	39°05'38.3290"N	80°40'6.1484"W	324.79	176.536	7.63
6781.00	32.650	328.800	6728.85	-267.23	-285.64	-6.46	1734478.45	14197051.14	39°05'38.7110"N	80°40'6.4774"W	285.72	181.296	8.68
6878.00	42.270	332.460	6805.77	-209.17	-234.21	-35.17	1734449.75	14197102.55	39°05'39.2204"N	80°40'6.8392"W	236.84	188.540	10.18
6974.00	48.020	323.970	6873.51	-142.90	-176.62	-71.15	1734413.79	14197160.12	39°05'39.7908"N	80°40'7.2928"W	190.42	201.941	8.66
7071.00	54.040	324.880	6934.49	-70.48	-115.30	-114.98	1734369.97	14197221.42	39°05'40.3985"N	80°40'7.8460"W	162.83	224.921	6.25
7168.00	60.000	324.270	6987.27	7.70	-49.03	-162.14	1734322.84	14197287.66	39°05'41.0552"N	80°40'8.4410"W	169.39	253.174	6.17
7265.00	68.080	327.730	7029.70	92.04	23.25	-210.78	1734274.21	14197359.91	39°05'41.7713"N	80°40'9.0546"W	212.06	276.293	8.92
7360.00	74.510	329.000	7060.16	179.94	99.83	-257.94	1734227.08	14197436.46	39°05'42.5299"N	80°40'9.6492"W	276.58	291.157	6.89
7457.00	80.730	332.540	7080.95	273.25	182.47	-304.14	1734180.89	14197519.07	39°05'43.3484"N	80°40'10.2314"W	354.68	300.962	7.34
7553.00	84.420	331.360	7093.35	367.35	266.46	-348.90	1734136.15	14197603.03	39°05'44.1802"N	80°40'10.7953"W	439.01	307.370	4.03
7649.00	89.290	331.410	7098.62	461.95	350.59	-394.79	1734090.27	14197687.12	39°05'45.0133"N	80°40'11.3735"W	527.99	311.606	5.07
7744.00	89.170	331.190	7099.89	555.70	433.91	-440.41	1734044.67	14197770.41	39°05'45.8385"N	80°40'11.9482"W	618.25	314.574	0.26
7841.00	89.450	333.780	7101.06	651.72	519.92	-485.21	1733999.89	14197856.39	39°05'46.6902"N	80°40'12.5126"W	711.16	316.978	2.69
7937.00	88.370	335.790	7102.89	747.21	606.75	-526.10	1733959.01	14197943.18	39°05'47.5499"N	80°40'13.0272"W	803.08	319.072	2.38
8031.00	89.320	335.530	7104.78	840.84	692.38	-564.84	1733920.30	14198028.78	39°05'48.3976"N	80°40'13.5146"W	893.55	320.793	1.05
8128.00	89.380	338.940	7105.88	937.66	781.80	-602.36	1733882.78	14198118.17	39°05'49.2828"N	80°40'13.9864"W	986.94	322.387	3.52
8224.00	90.220	339.200	7106.22	1033.62	871.47	-636.66	1733848.50	14198207.80	39°05'50.1703"N	80°40'14.4173"W	1079.25	323.850	0.92
8320.00	90.030	339.110	7106.01	1129.59	961.18	-670.82	1733814.36	14198297.48	39°05'51.0583"N	80°40'14.8465"W	1172.12	325.089	0.22

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Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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]
8415.00	88.830	339.590	7106.96	1224.57	1050.07	-704.32	1733780.87	14198386.33	39°05'51.9380"N	80°40'15.2673"W	1264.40	326.149	1.36
8512.00	89.720	341.190	7108.18	1321.55	1141.44	-736.87	1733748.33	14198477.66	39°05'52.8422"N	80°40'15.6760"W	1358.62	327.155	1.89
8608.00	89.510	340.770	7108.83	1417.55	1232.19	-768.15	1733717.06	14198568.38	39°05'53.7403"N	80°40'16.0687"W	1452.02	328.060	0.49
8704.00	89.540	340.680	7109.62	1513.54	1322.81	-799.84	1733685.38	14198658.96	39°05'54.6371"N	80°40'16.4664"W	1545.82	328.841	0.10
8800.00	89.660	340.690	7110.29	1609.54	1413.40	-831.59	1733653.64	14198749.52	39°05'55.5336"N	80°40'16.8650"W	1639.90	329.529	0.13
8897.00	89.450	340.740	7111.05	1706.54	1504.96	-863.63	1733621.62	14198841.04	39°05'56.4397"N	80°40'17.2672"W	1735.15	330.150	0.22
8992.00	89.660	340.810	7111.78	1801.53	1594.66	-894.91	1733590.35	14198930.70	39°05'57.3274"N	80°40'17.6599"W	1828.60	330.699	0.23
9088.00	90.800	341.730	7111.40	1897.52	1685.57	-925.73	1733559.54	14199021.58	39°05'58.2271"N	80°40'18.0467"W	1923.05	331.224	1.53
9184.00	90.030	340.970	7110.70	1993.51	1776.53	-956.43	1733528.85	14199112.50	39°05'59.1271"N	80°40'18.4319"W	2017.62	331.703	1.13
9280.00	89.600	340.780	7111.01	2089.51	1867.23	-987.88	1733497.41	14199203.16	39°06'0.0247"N	80°40'18.8267"W	2112.45	332.118	0.49
9377.00	89.320	341.340	7111.93	2186.50	1958.97	-1019.37	1733465.94	14199294.87	39°06'0.9326"N	80°40'19.2219"W	2208.32	332.509	0.65
9473.00	90.340	341.170	7112.21	2282.49	2049.88	-1050.22	1733435.10	14199385.74	39°06'1.8322"N	80°40'19.6090"W	2303.25	332.872	1.08
9570.00	89.320	340.920	7112.50	2379.49	2141.61	-1081.72	1733403.61	14199477.44	39°06'2.7401"N	80°40'20.0045"W	2399.30	333.202	1.08
9667.00	89.480	340.960	7113.52	2476.48	2233.29	-1113.40	1733371.95	14199569.09	39°06'3.6473"N	80°40'20.4021"W	2495.45	333.502	0.17
9764.00	90.520	341.180	7113.52	2573.47	2325.04	-1144.87	1733340.49	14199660.80	39°06'4.5553"N	80°40'20.7970"W	2591.63	333.784	1.10
9859.00	89.510	340.420	7113.49	2668.47	2414.76	-1176.11	1733309.26	14199750.48	39°06'5.4431"N	80°40'21.1892"W	2685.94	334.032	1.33
9955.00	89.780	340.750	7114.09	2764.47	2505.30	-1208.02	1733277.36	14199840.99	39°06'6.3391"N	80°40'21.5899"W	2781.33	334.257	0.44
10052.00	90.000	341.930	7114.27	2861.46	2597.20	-1239.05	1733246.34	14199932.85	39°06'7.2486"N	80°40'21.9793"W	2877.62	334.495	1.24
10149.00	89.050	339.710	7115.08	2958.45	2688.80	-1270.92	1733214.49	14200024.42	39°06'8.1551"N	80°40'22.3794"W	2974.04	334.701	2.49
10244.00	90.460	342.290	7115.48	3053.43	2778.62	-1301.84	1733183.58	14200114.20	39°06'9.0439"N	80°40'22.7675"W	3068.47	334.896	3.09
10340.00	88.920	340.570	7116.00	3149.42	2869.61	-1332.41	1733153.02	14200205.16	39°06'9.9444"N	80°40'23.1512"W	3163.86	335.094	2.40
10436.00	89.630	340.590	7117.22	3245.41	2960.14	-1364.33	1733121.12	14200295.65	39°06'10.8403"N	80°40'23.5519"W	3259.42	335.255	0.74
10532.00	90.150	340.750	7117.40	3341.41	3050.73	-1396.11	1733089.35	14200386.20	39°06'11.7368"N	80°40'23.9509"W	3355.00	335.410	0.57
10629.00	90.550	342.160	7116.81	3438.39	3142.69	-1426.96	1733058.51	14200478.13	39°06'12.6468"N	80°40'24.3380"W	3451.48	335.579	1.51
10725.00	89.940	340.460	7116.40	3534.38	3233.62	-1457.72	1733027.76	14200569.02	39°06'13.5466"N	80°40'24.7241"W	3547.00	335.734	1.88
10822.00	90.060	341.270	7116.40	3631.38	3325.26	-1489.51	1732995.98	14200660.63	39°06'14.4535"N	80°40'25.1232"W	3643.62	335.871	0.84
10919.00	92.710	341.090	7114.05	3728.33	3417.04	-1520.79	1732964.71	14200752.37	39°06'15.3617"N	80°40'25.5158"W	3740.18	336.008	2.74
11016.00	90.120	341.300	7111.66	3825.29	3508.83	-1552.05	1732933.47	14200844.12	39°06'16.2700"N	80°40'25.9081"W	3836.76	336.139	2.68
11113.00	90.920	341.750	7110.78	3922.27	3600.82	-1582.78	1732902.75	14200936.08	39°06'17.1804"N	80°40'26.2939"W	3933.33	336.272	0.95
11210.00	90.460	342.870	7109.61	4019.22	3693.23	-1612.26	1732873.28	14201028.45	39°06'18.0947"N	80°40'26.6635"W	4029.80	336.417	1.25

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Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

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11306.00	88.950	340.270	7110.11	4115.19	3784.29	-1642.60	1732842.95	14201119.48	39°06'18.9959"N	80°40'27.0443"W	4125.41	336.536	3.13
11403.00	87.660	339.950	7112.97	4212.14	3875.46	-1675.59	1732809.98	14201210.61	39°06'19.8982"N	80°40'27.4586"W	4222.18	336.618	1.37
11500.00	89.850	340.330	7115.08	4309.11	3966.67	-1708.53	1732777.05	14201301.78	39°06'20.8008"N	80°40'27.8724"W	4318.97	336.697	2.29
11511.00	89.910	340.330	7115.10	4320.11	3977.02	-1712.23	1732773.35	14201312.14	39°06'20.9033"N	80°40'27.9189"W	4329.95	336.707	0.55
11608.00	89.880	339.300	7115.28	4417.10	4068.07	-1745.70	1732739.89	14201403.14	39°06'21.8043"N	80°40'28.3393"W	4426.81	336.775	1.06
11704.00	89.850	339.370	7115.51	4513.08	4157.89	-1779.58	1732706.02	14201492.93	39°06'22.6933"N	80°40'28.7650"W	4522.72	336.829	0.08
11800.00	88.920	336.620	7116.54	4608.97	4246.88	-1815.55	1732670.07	14201581.89	39°06'23.5741"N	80°40'29.2172"W	4618.68	336.853	3.02
11897.00	89.510	339.180	7117.87	4705.84	4336.74	-1852.03	1732633.60	14201671.71	39°06'24.4636"N	80°40'29.6760"W	4715.65	336.875	2.71
11993.00	89.420	340.870	7118.76	4801.83	4426.96	-1884.83	1732600.82	14201761.89	39°06'25.3564"N	80°40'30.0879"W	4811.50	336.938	1.76
12089.00	88.710	339.030	7120.33	4897.81	4517.12	-1917.73	1732567.93	14201852.02	39°06'26.2488"N	80°40'30.5013"W	4907.35	336.996	2.05
12183.00	89.380	338.550	7121.90	4991.75	4604.74	-1951.73	1732533.94	14201939.61	39°06'27.1160"N	80°40'30.9286"W	5001.29	337.030	0.88
12280.00	88.860	337.820	7123.39	5088.65	4694.78	-1987.78	1732497.91	14202029.61	39°06'28.0072"N	80°40'31.3818"W	5098.26	337.052	0.92
12375.00	89.630	339.190	7124.64	5183.58	4783.16	-2022.58	1732463.12	14202117.96	39°06'28.8820"N	80°40'31.8193"W	5193.22	337.079	1.65
12470.00	90.090	339.020	7124.87	5278.55	4871.92	-2056.46	1732429.25	14202206.68	39°06'29.7604"N	80°40'32.2451"W	5288.16	337.115	0.52
12567.00	90.370	340.150	7124.48	5375.53	4962.82	-2090.30	1732395.43	14202297.55	39°06'30.6601"N	80°40'32.6702"W	5385.07	337.160	1.20
12663.00	90.000	340.120	7124.17	5471.53	5053.11	-2122.92	1732362.82	14202387.80	39°06'31.5536"N	80°40'33.0800"W	5480.94	337.212	0.39
12760.00	89.970	340.930	7124.20	5568.53	5144.56	-2155.26	1732330.50	14202479.21	39°06'32.4586"N	80°40'33.4861"W	5577.78	337.269	0.84
12856.00	89.720	340.520	7124.46	5664.53	5235.18	-2186.95	1732298.82	14202569.79	39°06'33.3554"N	80°40'33.8840"W	5673.61	337.328	0.50
12953.00	89.200	338.960	7125.37	5761.51	5326.17	-2220.54	1732265.24	14202660.75	39°06'34.2559"N	80°40'34.3060"W	5770.51	337.368	1.70
13049.00	89.290	340.170	7126.64	5857.48	5416.12	-2254.05	1732231.74	14202750.66	39°06'35.1461"N	80°40'34.7271"W	5866.44	337.404	1.26
13146.00	89.410	339.680	7127.74	5954.47	5507.22	-2287.34	1732198.46	14202841.73	39°06'36.0477"N	80°40'35.1454"W	5963.34	337.445	0.52
13243.00	89.750	340.640	7128.45	6051.46	5598.46	-2320.26	1732165.56	14202932.93	39°06'36.9506"N	80°40'35.5589"W	6060.23	337.489	1.05
13340.00	89.200	340.710	7129.34	6148.46	5689.99	-2352.36	1732133.47	14203024.43	39°06'37.8564"N	80°40'35.9620"W	6157.07	337.539	0.57
13436.00	89.320	341.270	7130.58	6244.45	5780.74	-2383.63	1732102.22	14203115.15	39°06'38.7546"N	80°40'36.3545"W	6252.89	337.592	0.60
13533.00	89.320	336.410	7131.73	6341.37	5871.17	-2418.63	1732067.23	14203205.54	39°06'39.6495"N	80°40'36.7945"W	6349.83	337.611	5.01
13630.00	89.540	338.910	7132.69	6438.23	5960.88	-2455.50	1732030.38	14203295.21	39°06'40.5375"N	80°40'37.2581"W	6446.82	337.612	2.59
13725.00	89.450	340.920	7133.53	6533.22	6050.09	-2488.12	1731997.77	14203384.39	39°06'41.4204"N	80°40'37.6680"W	6541.74	337.645	2.12
13821.00	89.200	342.410	7134.66	6629.19	6141.21	-2518.31	1731967.58	14203475.47	39°06'42.3221"N	80°40'38.0470"W	6637.50	337.703	1.57
13917.00	88.280	341.790	7136.77	6725.13	6232.54	-2547.81	1731938.10	14203566.77	39°06'43.2258"N	80°40'38.4171"W	6733.19	337.766	1.16
14014.00	90.000	342.910	7138.23	6822.07	6324.96	-2577.22	1731908.70	14203659.15	39°06'44.1403"N	80°40'38.7860"W	6829.87	337.831	2.12

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Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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]
14110.00	90.310	341.960	7137.97	6918.01	6416.48	-2606.19	1731879.74	14203750.64	39°06'45.0459"N	80°40'39.1494"W	6925.56	337.894	1.04
14207.00	90.180	340.600	7137.55	7015.00	6508.35	-2637.32	1731848.63	14203842.47	39°06'45.9549"N	80°40'39.5402"W	7022.39	337.941	1.41
14303.00	90.120	341.250	7137.30	7111.00	6599.07	-2668.69	1731817.26	14203933.16	39°06'46.8528"N	80°40'39.9342"W	7118.26	337.981	0.68
14400.00	90.490	342.330	7136.79	7207.98	6691.21	-2699.00	1731786.96	14204025.26	39°06'47.7645"N	80°40'40.3146"W	7215.05	338.033	1.18
14497.00	90.400	342.000	7136.03	7304.94	6783.55	-2728.71	1731757.27	14204117.56	39°06'48.6782"N	80°40'40.6873"W	7311.80	338.087	0.35
14594.00	90.280	342.660	7135.46	7401.89	6875.97	-2758.15	1731727.84	14204209.95	39°06'49.5927"N	80°40'41.0567"W	7408.53	338.143	0.69
14691.00	90.180	341.700	7135.07	7498.85	6968.31	-2787.84	1731698.17	14204302.25	39°06'50.5064"N	80°40'41.4292"W	7505.29	338.195	1.00
14787.00	90.650	342.310	7134.37	7594.81	7059.62	-2817.49	1731668.52	14204393.52	39°06'51.4099"N	80°40'41.8013"W	7601.08	338.243	0.80
14884.00	90.520	342.010	7133.38	7691.77	7151.95	-2847.21	1731638.82	14204485.81	39°06'52.3235"N	80°40'42.1742"W	7697.85	338.292	0.34
14981.00	90.120	342.450	7132.84	7788.73	7244.32	-2876.81	1731609.22	14204578.15	39°06'53.2375"N	80°40'42.5456"W	7794.62	338.341	0.61
15077.00	90.150	342.530	7132.62	7884.67	7335.87	-2905.70	1731580.35	14204669.66	39°06'54.1434"N	80°40'42.9079"W	7890.38	338.392	0.09
15172.00	89.570	340.740	7132.85	7979.65	7426.02	-2935.63	1731550.43	14204759.78	39°06'55.0355"N	80°40'43.2836"W	7985.22	338.430	1.98
15269.00	89.690	342.250	7133.47	8076.64	7518.01	-2966.41	1731519.66	14204851.73	39°06'55.9457"N	80°40'43.6701"W	8082.08	338.467	1.56
15366.00	89.720	341.460	7133.97	8173.61	7610.18	-2996.62	1731489.47	14204943.87	39°06'56.8578"N	80°40'44.0492"W	8178.91	338.507	0.82
15462.00	90.430	344.610	7133.85	8269.51	7701.99	-3024.63	1731461.47	14205035.64	39°06'57.7662"N	80°40'44.4004"W	8274.60	338.560	3.36
15558.00	89.720	342.220	7133.72	8365.38	7793.99	-3052.03	1731434.08	14205127.60	39°06'58.6765"N	80°40'44.7439"W	8370.25	338.615	2.60
15653.00	90.060	340.830	7133.90	8460.37	7884.09	-3082.13	1731403.99	14205217.67	39°06'59.5680"N	80°40'45.1218"W	8465.13	338.648	1.51
15750.00	90.030	339.700	7133.83	8557.36	7975.39	-3114.88	1731371.25	14205308.94	39°07'0.4716"N	80°40'45.5333"W	8562.09	338.666	1.17
15847.00	89.970	341.140	7133.83	8654.36	8066.78	-3147.39	1731338.75	14205400.29	39°07'1.3760"N	80°40'45.9416"W	8659.04	338.686	1.49
15942.00	89.820	340.760	7134.00	8749.36	8156.58	-3178.40	1731307.76	14205490.05	39°07'2.2646"N	80°40'46.3310"W	8753.97	338.710	0.43
16039.00	89.140	341.740	7134.88	8846.34	8248.42	-3209.57	1731276.59	14205581.86	39°07'3.1735"N	80°40'46.7225"W	8850.87	338.738	1.23
16136.00	90.120	343.560	7135.51	8943.27	8341.00	-3238.50	1731247.68	14205674.40	39°07'4.0895"N	80°40'47.0853"W	8947.64	338.781	2.13
16233.00	88.710	340.240	7136.50	9040.23	8433.18	-3268.63	1731217.56	14205766.55	39°07'5.0017"N	80°40'47.4635"W	9044.47	338.814	3.72
16330.00	88.860	340.740	7138.56	9137.20	8524.59	-3301.02	1731185.19	14205857.92	39°07'5.9063"N	80°40'47.8703"W	9141.41	338.832	0.54
16427.00	89.940	341.980	7139.57	9234.19	8616.50	-3332.02	1731154.20	14205949.79	39°07'6.8157"N	80°40'48.2595"W	9238.31	338.858	1.70
16522.00	89.850	338.850	7139.75	9329.17	8705.99	-3363.86	1731122.37	14206039.25	39°07'7.7013"N	80°40'48.6595"W	9333.26	338.874	3.30
16619.00	90.710	339.230	7139.27	9426.14	8796.57	-3398.55	1731087.69	14206129.79	39°07'8.5978"N	80°40'49.0957"W	9430.26	338.876	0.97
16715.00	90.490	336.640	7138.27	9522.02	8885.52	-3434.61	1731051.64	14206218.71	39°07'9.4783"N	80°40'49.5493"W	9526.23	338.866	2.71
16812.00	91.450	340.510	7136.62	9618.93	8975.79	-3470.03	1731016.24	14206308.94	39°07'10.3717"N	80°40'49.9947"W	9623.20	338.864	4.11
16908.00	90.620	338.920	7134.89	9714.90	9065.82	-3503.31	1730982.97	14206398.94	39°07'11.2626"N	80°40'50.4129"W	9719.17	338.872	1.87

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Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'

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Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
17005.00	90.580	339.190	7133.87	9811.86	9156.40	-3537.98	1730948.32	14206489.49	39°07'12.1592"N	80°40'50.8487"W	9816.16	338.874	0.28
17102.00	90.460	338.930	7132.99	9908.82	9246.99	-3572.65	1730913.66	14206580.04	39°07'13.0558"N	80°40'51.2845"W	9913.16	338.876	0.30
17199.00	89.880	337.350	7132.71	10005.73	9337.01	-3608.76	1730877.56	14206670.03	39°07'13.9468"N	80°40'51.7388"W	10010.15	338.868	1.74
17295.00	90.180	341.500	7132.66	10101.69	9426.87	-3642.49	1730843.85	14206759.85	39°07'14.8361"N	80°40'52.1628"W	10106.12	338.874	4.33
17391.00	90.000	342.260	7132.50	10197.67	9518.11	-3672.35	1730814.00	14206851.05	39°07'15.7389"N	80°40'52.5375"W	10201.99	338.902	0.81
17486.00	90.310	342.750	7132.25	10292.61	9608.71	-3700.91	1730785.45	14206941.62	39°07'16.6354"N	80°40'52.8959"W	10296.80	338.935	0.61
17582.00	89.350	339.490	7132.53	10388.59	9699.54	-3731.97	1730754.41	14207032.41	39°07'17.5341"N	80°40'53.2859"W	10392.72	338.955	3.54
17678.00	89.050	338.230	7133.87	10484.54	9789.06	-3766.59	1730719.80	14207121.90	39°07'18.4202"N	80°40'53.7212"W	10488.71	338.955	1.35
17775.00	89.110	341.240	7135.43	10581.50	9880.04	-3800.17	1730686.23	14207212.84	39°07'19.3205"N	80°40'54.1433"W	10585.67	338.962	3.10
17872.00	89.350	341.170	7136.73	10678.49	9971.86	-3831.42	1730654.99	14207304.62	39°07'20.2291"N	80°40'54.5357"W	10682.59	338.982	0.26
17969.00	89.540	341.210	7137.67	10775.48	10063.67	-3862.70	1730623.73	14207396.40	39°07'21.1377"N	80°40'54.9285"W	10779.52	339.002	0.20
18066.00	90.280	342.870	7137.83	10872.44	10155.94	-3892.61	1730593.83	14207488.63	39°07'22.0507"N	80°40'55.3039"W	10876.38	339.029	1.87
18162.00	89.320	341.000	7138.16	10968.41	10247.20	-3922.37	1730564.07	14207579.86	39°07'22.9537"N	80°40'55.6776"W	10972.25	339.054	2.19
18257.00	89.380	340.960	7139.24	11063.40	10337.01	-3953.33	1730533.13	14207669.63	39°07'23.8424"N	80°40'56.0664"W	11067.19	339.071	0.08
18353.00	89.880	342.320	7139.86	11159.38	10428.12	-3983.57	1730502.90	14207760.70	39°07'24.7440"N	80°40'56.4460"W	11163.09	339.093	1.51
18449.00	89.480	341.490	7140.40	11255.35	10519.37	-4013.39	1730473.10	14207851.92	39°07'25.6469"N	80°40'56.8203"W	11258.97	339.117	0.96
18546.00	89.510	341.380	7141.25	11352.34	10611.32	-4044.27	1730442.23	14207943.83	39°07'26.5568"N	80°40'57.2081"W	11355.89	339.137	0.12
18643.00	89.320	340.040	7142.24	11449.33	10702.87	-4076.31	1730410.20	14208035.34	39°07'27.4627"N	80°40'57.6106"W	11452.84	339.150	1.40
18739.00	89.570	342.250	7143.17	11545.31	10793.71	-4107.33	1730379.19	14208126.15	39°07'28.3616"N	80°40'58.0002"W	11548.78	339.167	2.32
18836.00	89.260	341.730	7144.16	11642.28	10885.95	-4137.32	1730349.21	14208218.35	39°07'29.2743"N	80°40'58.3766"W	11645.65	339.190	0.62
18933.00	89.630	339.720	7145.10	11739.27	10977.50	-4169.34	1730317.21	14208309.87	39°07'30.1803"N	80°40'58.7788"W	11742.61	339.203	2.11
19030.00	90.310	339.180	7145.15	11836.25	11068.33	-4203.38	1730283.17	14208400.66	39°07'31.0792"N	80°40'59.2069"W	11839.61	339.205	0.90
19126.00	91.480	343.300	7143.65	11932.21	11159.20	-4234.25	1730252.32	14208491.49	39°07'31.9784"N	80°40'59.5945"W	11935.51	339.221	4.46
19223.00	90.180	339.850	7142.25	12029.17	11251.20	-4264.90	1730221.68	14208583.46	39°07'32.8888"N	80°40'59.9793"W	12032.41	339.240	3.80
19320.00	89.780	339.320	7142.28	12126.15	11342.10	-4298.73	1730187.86	14208674.33	39°07'33.7885"N	80°41'0.4047"W	12129.40	339.243	0.68
19417.00	89.970	337.400	7142.49	12223.07	11432.26	-4334.50	1730152.11	14208764.45	39°07'34.6808"N	80°41'0.8546"W	12226.39	339.236	1.99
19513.00	88.950	337.590	7143.40	12318.93	11520.95	-4371.25	1730115.38	14208853.10	39°07'35.5586"N	80°41'1.3169"W	12322.34	339.222	1.08
19609.00	89.690	339.300	7144.54	12414.85	11610.22	-4406.51	1730080.13	14208942.34	39°07'36.4422"N	80°41'1.7604"W	12418.32	339.216	1.94
19706.00	89.350	338.650	7145.35	12511.81	11700.76	-4441.31	1730045.34	14209032.85	39°07'37.3382"N	80°41'2.1980"W	12515.31	339.215	0.76
19803.00	89.350	337.940	7146.45	12608.73	11790.88	-4477.18	1730009.48	14209122.93	39°07'38.2302"N	80°41'2.6492"W	12612.29	339.207	0.73



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WELLPATH DATA (337 stations)

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19899.00	89.850	339.660	7147.12	12704.68	11880.38	-4511.90	1729974.78	14209212.39	39°07'39.1159"N	80°41'3.0858"W	12708.29	339.204	1.87
19995.00	89.630	339.340	7147.55	12800.66	11970.29	-4545.52	1729941.18	14209302.27	39°07'40.0058"N	80°41'3.5084"W	12804.28	339.207	0.40
20092.00	89.050	338.980	7148.67	12897.62	12060.94	-4580.02	1729906.68	14209392.89	39°07'40.9030"N	80°41'3.9423"W	12901.28	339.206	0.70
20189.00	89.690	340.430	7149.74	12994.60	12151.91	-4613.66	1729873.05	14209483.82	39°07'41.8032"N	80°41'4.3652"W	12998.26	339.210	1.63
20286.00	89.320	341.490	7150.58	13091.59	12243.60	-4645.31	1729841.42	14209575.47	39°07'42.7105"N	80°41'4.7627"W	13095.21	339.223	1.16
20381.00	88.800	339.780	7152.14	13186.58	12333.21	-4676.80	1729809.94	14209665.05	39°07'43.5973"N	80°41'5.1584"W	13190.17	339.233	1.88
20477.00	89.450	341.790	7153.60	13282.56	12423.85	-4708.39	1729778.37	14209755.65	39°07'44.4942"N	80°41'5.5553"W	13286.12	339.244	2.20
20573.00	89.320	341.300	7154.63	13378.54	12514.90	-4738.78	1729747.99	14209846.67	39°07'45.3952"N	80°41'5.9369"W	13382.03	339.261	0.53
20670.00	89.450	341.820	7155.67	13475.52	12606.92	-4769.46	1729717.32	14209938.65	39°07'46.3057"N	80°41'6.3221"W	13478.95	339.277	0.55
20766.00	89.200	341.070	7156.80	13571.50	12697.92	-4800.00	1729686.79	14210029.61	39°07'47.2062"N	80°41'6.7058"W	13574.87	339.293	0.82
20863.00	89.230	341.200	7158.13	13668.49	12789.70	-4831.37	1729655.44	14210121.36	39°07'48.1145"N	80°41'7.0997"W	13671.82	339.306	0.14
20960.00	89.450	340.970	7159.25	13765.48	12881.46	-4862.81	1729624.01	14210213.08	39°07'49.0224"N	80°41'7.4947"W	13768.76	339.318	0.33
21057.00	89.780	341.490	7159.90	13862.47	12973.30	-4894.02	1729592.81	14210304.88	39°07'49.9312"N	80°41'7.8867"W	13865.71	339.332	0.63
21154.00	89.720	342.160	7160.33	13959.44	13065.45	-4924.27	1729562.57	14210397.00	39°07'50.8431"N	80°41'8.2666"W	13962.61	339.349	0.69
21251.00	89.540	342.000	7160.95	14056.41	13157.75	-4954.12	1729532.73	14210489.26	39°07'51.7563"N	80°41'8.6413"W	14059.50	339.368	0.25
21346.00	90.060	344.230	7161.28	14151.31	13248.65	-4981.71	1729505.15	14210580.12	39°07'52.6557"N	80°41'8.9874"W	14154.29	339.393	2.41
21443.00	90.220	343.920	7161.05	14248.12	13341.92	-5008.32	1729478.55	14210673.36	39°07'53.5785"N	80°41'9.3211"W	14250.97	339.425	0.36
21539.00	89.570	341.060	7161.22	14344.06	13433.46	-5037.20	1729449.68	14210764.87	39°07'54.4843"N	80°41'9.6836"W	14346.82	339.445	3.06
21636.00	89.910	341.500	7161.66	14441.05	13525.33	-5068.34	1729418.56	14210856.70	39°07'55.3933"N	80°41'10.0746"W	14443.77	339.458	0.57
21733.00	89.010	338.980	7162.58	14538.04	13616.61	-5101.13	1729385.78	14210947.94	39°07'56.2966"N	80°41'10.4867"W	14540.75	339.463	2.76
21829.00	89.750	340.410	7163.62	14634.02	13706.63	-5134.44	1729352.49	14211037.93	39°07'57.1876"N	80°41'10.9055"W	14636.74	339.464	1.68
21926.00	89.880	340.740	7163.93	14731.02	13798.11	-5166.70	1729320.24	14211129.37	39°07'58.0928"N	80°41'11.3108"W	14733.72	339.472	0.37
22023.00	89.170	339.990	7164.73	14828.01	13889.47	-5199.29	1729287.66	14211220.69	39°07'58.9968"N	80°41'11.7205"W	14830.71	339.477	1.06
22119.00	89.750	341.720	7165.64	14924.00	13980.15	-5230.77	1729256.19	14211311.34	39°07'59.8942"N	80°41'12.1160"W	14926.67	339.486	1.90
22216.00	88.770	337.580	7166.89	15020.96	14071.07	-5264.49	1729222.48	14211402.22	39°08'0.7940"N	80°41'12.5400"W	15023.64	339.487	4.39
22313.00	88.890	340.050	7168.87	15117.89	14161.49	-5299.53	1729187.45	14211492.61	39°08'1.6888"N	80°41'12.9807"W	15120.61	339.483	2.55
22410.00	88.830	341.100	7170.80	15214.86	14252.94	-5331.79	1729155.21	14211584.03	39°08'2.5939"N	80°41'13.3861"W	15217.57	339.490	1.08
22506.00	88.800	341.100	7172.79	15310.84	14343.75	-5362.88	1729124.13	14211674.80	39°08'3.4924"N	80°41'13.7766"W	15313.51	339.500	0.03
22603.00	89.010	341.640	7174.64	15407.81	14435.65	-5393.86	1729093.17	14211766.66	39°08'4.4018"N	80°41'14.1658"W	15410.44	339.512	0.60
22699.00	88.830	341.790	7176.45	15503.78	14526.79	-5423.97	1729063.06	14211857.76	39°08'5.3036"N	80°41'14.5440"W	15506.35	339.526	0.24

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Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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]
22796.00	89.200	341.760	7178.12	15600.74	14618.91	-5454.30	1729032.74	14211949.85	39°08'6.2151"N	80°41'14.9249"W	15603.26	339.539	0.38
22893.00	88.860	340.950	7179.76	15697.72	14710.80	-5485.31	1729001.75	14212041.71	39°08'7.1245"N	80°41'15.3144"W	15700.20	339.551	0.91
22989.00	88.890	339.920	7181.65	15793.70	14801.24	-5517.45	1728969.62	14212132.11	39°08'8.0194"N	80°41'15.7183"W	15796.17	339.556	1.07
23085.00	88.770	340.180	7183.61	15889.67	14891.46	-5550.20	1728936.88	14212222.29	39°08'8.9122"N	80°41'16.1300"W	15892.15	339.559	0.30
23182.00	88.830	339.780	7185.64	15986.65	14982.58	-5583.40	1728903.70	14212313.38	39°08'9.8140"N	80°41'16.5474"W	15989.12	339.562	0.42
23279.00	88.890	340.990	7187.57	16083.62	15073.93	-5615.96	1728871.15	14212404.69	39°08'10.7180"N	80°41'16.9566"W	16086.09	339.567	1.25
23376.00	88.800	341.010	7189.52	16180.60	15165.63	-5647.53	1728839.59	14212496.35	39°08'11.6253"N	80°41'17.3533"W	16183.04	339.575	0.10
23472.00	90.430	341.220	7190.17	16276.59	15256.45	-5678.60	1728808.53	14212587.14	39°08'12.5241"N	80°41'17.7436"W	16279.00	339.584	1.71
23569.00	88.830	341.180	7190.79	16373.58	15348.27	-5709.86	1728777.29	14212678.93	39°08'13.4327"N	80°41'18.1363"W	16375.96	339.594	1.65
23666.00	88.860	341.330	7192.75	16470.55	15440.11	-5741.02	1728746.14	14212770.73	39°08'14.3414"N	80°41'18.5279"W	16472.90	339.604	0.16
23763.00	89.200	341.580	7194.39	16567.53	15532.06	-5771.87	1728715.30	14212862.64	39°08'15.2513"N	80°41'18.9153"W	16569.83	339.614	0.44
23859.00	88.430	339.760	7196.38	16663.50	15622.62	-5803.64	1728683.55	14212953.17	39°08'16.1475"N	80°41'19.3146"W	16665.79	339.621	2.06
23956.00	89.080	341.470	7198.48	16760.48	15714.10	-5835.83	1728651.37	14213044.61	39°08'17.0527"N	80°41'19.7191"W	16762.75	339.626	1.89
24053.00	89.110	340.810	7200.02	16857.46	15805.88	-5867.18	1728620.03	14213136.36	39°08'17.9609"N	80°41'20.1130"W	16859.70	339.635	0.68
24150.00	88.650	340.100	7201.91	16954.44	15897.27	-5899.62	1728587.60	14213227.71	39°08'18.8653"N	80°41'20.5208"W	16956.67	339.640	0.87
24247.00	88.800	341.450	7204.07	17051.41	15988.84	-5931.55	1728555.68	14213319.24	39°08'19.7714"N	80°41'20.9221"W	17053.63	339.646	1.40
24344.00	88.830	341.130	7206.08	17148.38	16080.69	-5962.66	1728524.58	14213411.06	39°08'20.6803"N	80°41'21.3129"W	17150.57	339.655	0.33
24440.00	89.020	340.980	7207.88	17244.36	16171.48	-5993.82	1728493.44	14213501.81	39°08'21.5786"N	80°41'21.7045"W	17246.52	339.663	0.25
24538.00	88.830	341.220	7209.72	17342.34	16264.18	-6025.56	1728461.71	14213594.47	39°08'22.4959"N	80°41'22.1032"W	17344.47	339.671	0.31
24634.00	89.200	340.830	7211.37	17438.32	16354.95	-6056.77	1728430.51	14213685.21	39°08'23.3941"N	80°41'22.4954"W	17440.43	339.679	0.56
24731.00	88.830	341.440	7213.03	17535.30	16446.72	-6088.13	1728399.16	14213776.95	39°08'24.3023"N	80°41'22.8894"W	17537.39	339.687	0.74
24827.00	88.830	340.750	7214.99	17631.28	16537.52	-6119.23	1728368.08	14213867.71	39°08'25.2008"N	80°41'23.2802"W	17633.34	339.694	0.72
24924.00	88.980	341.360	7216.85	17728.26	16629.25	-6150.71	1728336.61	14213959.40	39°08'26.1085"N	80°41'23.6758"W	17730.29	339.702	0.65
25019.00	88.830	341.230	7218.66	17823.23	16719.22	-6181.18	1728306.16	14214049.34	39°08'26.9987"N	80°41'24.0585"W	17825.24	339.710	0.21
25116.00	88.180	338.850	7221.19	17920.19	16810.35	-6214.27	1728273.07	14214140.43	39°08'27.9006"N	80°41'24.4747"W	17922.20	339.712	2.54
25213.00	88.310	341.000	7224.17	18017.13	16901.41	-6247.55	1728239.81	14214231.46	39°08'28.8017"N	80°41'24.8931"W	18019.14	339.713	2.22
25309.00	88.430	341.100	7226.90	18113.09	16992.17	-6278.71	1728208.66	14214322.18	39°08'29.6998"N	80°41'25.2847"W	18115.08	339.720	0.16
25405.00	88.400	341.200	7229.55	18209.05	17082.99	-6309.72	1728177.66	14214412.96	39°08'30.5985"N	80°41'25.6742"W	18211.01	339.728	0.11
25501.00	88.270	341.300	7232.34	18305.00	17173.85	-6340.56	1728146.83	14214503.79	39°08'31.4976"N	80°41'26.0618"W	18306.94	339.736	0.17
25598.00	88.520	341.280	7235.06	18401.95	17265.69	-6371.67	1728115.74	14214595.60	39°08'32.4064"N	80°41'26.4526"W	18403.87	339.744	0.26



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Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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]
25694.00	87.910	340.040	7238.05	18497.90	17356.23	-6403.44	1728083.98	14214686.10	39°08'33.3023"N	80°41'26.8520"W	18499.80	339.749	1.44
25791.00	87.470	340.840	7241.96	18594.82	17447.56	-6435.89	1728051.54	14214777.39	39°08'34.2060"N	80°41'27.2599"W	18596.72	339.752	0.94
25888.00	86.340	341.010	7247.20	18691.68	17539.09	-6467.55	1728019.90	14214868.89	39°08'35.1118"N	80°41'27.6577"W	18693.55	339.759	1.18
25984.00	87.630	341.440	7252.24	18787.54	17629.86	-6498.40	1727989.06	14214959.62	39°08'36.0099"N	80°41'28.0454"W	18789.39	339.766	1.42
26081.00	86.430	341.120	7257.27	18884.40	17721.60	-6529.49	1727957.98	14215051.33	39°08'36.9178"N	80°41'28.4360"W	18886.22	339.774	1.28
26178.00	86.860	340.600	7262.95	18981.23	17813.08	-6561.24	1727926.24	14215142.77	39°08'37.8230"N	80°41'28.8350"W	18983.04	339.779	0.69
26274.00	87.570	341.090	7267.61	19077.12	17903.66	-6592.70	1727894.79	14215233.31	39°08'38.7193"N	80°41'29.2305"W	19078.91	339.785	0.90
26371.00	87.010	340.540	7272.20	19174.01	17995.17	-6624.54	1727862.97	14215324.79	39°08'39.6248"N	80°41'29.6307"W	19175.78	339.790	0.81
26468.00	87.230	341.400	7277.07	19270.88	18086.75	-6656.13	1727831.39	14215416.33	39°08'40.5310"N	80°41'30.0276"W	19272.64	339.796	0.91
26565.00	86.800	341.560	7282.12	19367.74	18178.60	-6686.90	1727800.63	14215508.15	39°08'41.4399"N	80°41'30.4142"W	19369.47	339.804	0.47
26662.00	87.070	341.290	7287.31	19464.59	18270.42	-6717.75	1727769.79	14215599.93	39°08'42.3484"N	80°41'30.8019"W	19466.29	339.812	0.39
26757.00	87.600	340.760	7291.73	19559.48	18360.16	-6748.61	1727738.95	14215689.63	39°08'43.2364"N	80°41'31.1897"W	19561.16	339.818	0.79
26854.00	88.740	341.360	7294.82	19656.42	18451.86	-6780.08	1727707.49	14215781.30	39°08'44.1438"N	80°41'31.5851"W	19658.09	339.824	1.33
26951.00	89.910	340.060	7295.97	19753.41	18543.40	-6812.12	1727675.46	14215872.81	39°08'45.0497"N	80°41'31.9879"W	19755.07	339.829	1.80
27047.00	90.990	340.090	7295.21	19849.41	18633.65	-6844.83	1727642.76	14215963.02	39°08'45.9428"N	80°41'32.3992"W	19851.06	339.830	1.13
27141.00	90.920	339.970	7293.65	19943.39	18721.99	-6876.93	1727610.68	14216051.32	39°08'46.8170"N	80°41'32.8029"W	19945.05	339.831	0.15
27237.00	92.220	340.470	7291.02	20039.35	18812.29	-6909.40	1727578.21	14216141.58	39°08'47.7105"N	80°41'33.2112"W	20041.01	339.833	1.45
27334.00	91.880	339.950	7287.55	20136.28	18903.50	-6942.22	1727545.41	14216232.76	39°08'48.6132"N	80°41'33.6238"W	20137.94	339.834	0.64
27430.00	91.630	339.750	7284.61	20232.23	18993.58	-6975.28	1727512.36	14216322.81	39°08'49.5046"N	80°41'34.0395"W	20233.90	339.835	0.33
27527.00	90.280	339.690	7282.99	20329.20	19084.55	-7008.89	1727478.76	14216413.74	39°08'50.4049"N	80°41'34.4623"W	20330.88	339.834	1.39
27623.00	90.460	340.030	7282.37	20425.19	19174.68	-7041.95	1727445.72	14216503.84	39°08'51.2968"N	80°41'34.8780"W	20426.88	339.834	0.40
27720.00	91.390	339.940	7280.80	20522.18	19265.81	-7075.14	1727412.54	14216594.93	39°08'52.1986"N	80°41'35.2954"W	20523.87	339.835	0.96
27815.00	91.170	339.530	7278.68	20617.14	19354.91	-7108.04	1727379.66	14216683.99	39°08'53.0803"N	80°41'35.7092"W	20618.84	339.834	0.49
27912.00	90.250	340.120	7277.48	20714.12	19445.95	-7141.49	1727346.22	14216775.00	39°08'53.9812"N	80°41'36.1299"W	20715.83	339.834	1.13
28009.00	89.820	340.310	7277.42	20811.12	19537.22	-7174.32	1727313.40	14216866.23	39°08'54.8845"N	80°41'36.5427"W	20812.83	339.836	0.48
28106.00	89.720	339.940	7277.81	20908.12	19628.44	-7207.30	1727280.43	14216957.42	39°08'55.7872"N	80°41'36.9574"W	20909.83	339.837	0.40
28202.00	89.970	340.240	7278.07	21004.11	19718.70	-7239.99	1727247.75	14217047.65	39°08'56.6804"N	80°41'37.3685"W	21005.83	339.839	0.41
28298.00	89.720	339.900	7278.33	21100.11	19808.95	-7272.72	1727215.04	14217137.86	39°08'57.5735"N	80°41'37.7800"W	21101.82	339.840	0.44
28395.00	88.710	340.190	7279.66	21197.10	19900.12	-7305.82	1727181.96	14217228.99	39°08'58.4756"N	80°41'38.1963"W	21198.81	339.841	1.08
28492.00	88.310	339.830	7282.18	21294.06	19991.24	-7338.97	1727148.82	14217320.08	39°08'59.3774"N	80°41'38.6132"W	21295.78	339.841	0.55



Actual Wellpath Report

Van Wie 1221 N-2H awp Proj: 29082'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-2H
Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

WELLPATH DATA (337 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]
28588.00	89.290	339.910	7284.19	21390.03	20081.36	-7372.00	1727115.80	14217410.16	39°09'0.2692"N	80°41'39.0286"W	21391.76	339.841	1.02
28684.00	89.450	339.990	7285.25	21486.02	20171.54	-7404.91	1727082.91	14217500.30	39°09'1.1615"N	80°41'39.4425"W	21487.75	339.842	0.19
28781.00	89.480	340.150	7286.15	21583.01	20262.72	-7437.97	1727049.85	14217591.45	39°09'2.0639"N	80°41'39.8583"W	21584.75	339.843	0.17
28877.00	89.510	340.020	7287.00	21679.00	20352.98	-7470.67	1727017.17	14217681.67	39°09'2.9571"N	80°41'40.2695"W	21680.74	339.844	0.14
28974.00	89.660	339.890	7287.70	21775.99	20444.10	-7503.92	1726983.94	14217772.76	39°09'3.8588"N	80°41'40.6876"W	21777.74	339.845	0.20
29056.00	89.970	340.000	7287.96	21857.99	20521.13	-7532.03	1726955.83	14217849.76	39°09'4.6210"N	80°41'41.0413"W	21859.74	339.845	0.40
29082.00‡	89.970	340.000	7287.98	21883.99	20545.56	-7540.93	1726946.94	14217874.18	39°09'4.8628"N	80°41'41.1531"W	21885.74	339.845	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Van Wie 1221 N-2H AWB Ref Wellpath: Van Wie 1221 N-2H awp Proj: 29082'

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]
9.625in Casing	25.00	6130.00	6105.00	25.00	6102.13	0.00	0.00	-373.98	60.31
13.375in Casing	25.00	2848.00	2823.00	25.00	2846.97	0.00	0.00	1.02	-21.33
5.5in Casing	25.00	29082.00	29057.00	25.00	7287.98	0.00	0.00	20545.56	-7540.93

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Van Wie 1221 N-2H awp Proj: 29082'
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Field	Lewis	API	4704105761000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-2H AWB
Slot	2H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-2H LP rev 2	7090.00	291.72	-387.48	1734097.58	14197628.28	39°05'44.4313"N	80°40'11.2835"W	point
1221 N-2H 10200vs	7112.00	9521.68	-3671.37	1730814.98	14206854.62	39°07'15.7741"N	80°40'52.5249"W	point
1221 N-2H 9000vs	7121.00	8389.08	-3274.89	1731211.30	14205722.46	39°07'4.5660"N	80°40'47.5450"W	point
1221 N-2H 9400vs	7130.00	8766.61	-3407.06	1731079.19	14206099.84	39°07'8.3020"N	80°40'49.2049"W	point
1221 N-2H BHL rev 2	7165.00	20548.60	-7531.46	1726956.40	14217877.22	39°09'4.8926"N	80°41'41.0328"W	point

WELLPATH COMPOSITION - Ref Wellbore: Van Wie 1221 N-2H AWB Ref Wellpath: Van Wie 1221 N-2H awp Proj: 29082'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1115.00	BH Generic gyro - northseeking (Standard)	1 SDI Keeper 18.5" 100'-1115'	Van Wie 1221 N-2H AWB	11/29/2024
1115.00	2748.00	BH NaviTrak (2019) (Axial Corr+HRGM)	2 APS EM 17.5" 1257' - 2748'	Van Wie 1221 N-2H AWB	11/29/2024
2748.00	6050.00	BH NaviTrak (2019) (Axial Corr+HRGM)	3 APS EM 12.25" 2834' - 6050'	Van Wie 1221 N-2H AWB	11/29/2024
6050.00	29082.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC HRGM short spacing 8.5" 6103' - 29056'	Van Wie 1221 N-2H AWB	11/29/2024

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