

07/31/2026



Actual Wellpath Report

Van Wie 1221 N-1H awp Proj: 19493'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

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	4/15/2025 at 10:48:39 AM
Convergence at slot	0.21° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1734473.60	14197326.83	39°05'41.4371"N	80°40'6.5262"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 (1H)	25.00ft
MD Reference Pt	Precision 572 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	340.57°

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Slot	1H		

WELLPATH DATA (237 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	262.010	0.00	0.00	0.00	0.00	1734473.60	14197326.83	39°05'41.4371"N	80°40'6.5262"W	0.00	0.000	0.00
25.00	0.000	262.010	25.00	0.00	0.00	0.00	1734473.60	14197326.83	39°05'41.4371"N	80°40'6.5262"W	0.00	0.000	0.00
100.00	0.370	262.010	100.00	0.05	-0.03	-0.24	1734473.36	14197326.80	39°05'41.4368"N	80°40'6.5292"W	0.24	262.010	0.49
125.00	0.360	296.550	125.00	0.12	-0.01	-0.39	1734473.21	14197326.82	39°05'41.4370"N	80°40'6.5311"W	0.39	268.564	0.87
150.00	0.370	292.270	150.00	0.23	0.06	-0.53	1734473.07	14197326.89	39°05'41.4377"N	80°40'6.5330"W	0.54	275.968	1.12
175.00	0.570	264.590	175.00	0.31	0.07	-0.73	1734472.87	14197326.90	39°05'41.4379"N	80°40'6.5355"W	0.74	275.822	1.19
200.00	0.400	296.360	200.00	0.41	0.10	-0.94	1734472.66	14197326.93	39°05'41.4381"N	80°40'6.5381"W	0.94	276.211	1.25
225.00	0.190	269.330	225.00	0.48	0.14	-1.06	1734472.55	14197326.97	39°05'41.4385"N	80°40'6.5396"W	1.06	277.562	0.99
250.00	0.140	291.350	250.00	0.52	0.15	-1.12	1734472.48	14197326.98	39°05'41.4386"N	80°40'6.5405"W	1.14	277.630	0.32
275.00	0.100	292.360	275.00	0.55	0.17	-1.17	1734472.43	14197327.00	39°05'41.4388"N	80°40'6.5411"W	1.19	278.248	0.16
300.00	0.100	19.970	300.00	0.58	0.20	-1.19	1734472.41	14197327.03	39°05'41.4391"N	80°40'6.5412"W	1.20	279.519	0.55
325.00	0.120	353.240	325.00	0.62	0.25	-1.18	1734472.42	14197327.08	39°05'41.4396"N	80°40'6.5412"W	1.21	281.731	0.22
350.00	0.220	25.530	350.00	0.68	0.31	-1.16	1734472.44	14197327.14	39°05'41.4403"N	80°40'6.5409"W	1.21	285.126	0.54
375.00	0.260	17.040	375.00	0.76	0.41	-1.13	1734472.47	14197327.24	39°05'41.4412"N	80°40'6.5405"W	1.20	290.093	0.21
400.00	0.300	11.160	400.00	0.87	0.53	-1.10	1734472.50	14197327.36	39°05'41.4424"N	80°40'6.5401"W	1.22	295.802	0.20
425.00	0.350	18.450	425.00	0.98	0.67	-1.06	1734472.54	14197327.50	39°05'41.4437"N	80°40'6.5396"W	1.25	302.172	0.26
450.00	0.540	70.220	449.99	1.04	0.78	-0.93	1734472.67	14197327.61	39°05'41.4448"N	80°40'6.5379"W	1.21	310.099	1.70
475.00	0.490	59.060	474.99	1.07	0.87	-0.72	1734472.88	14197327.70	39°05'41.4458"N	80°40'6.5353"W	1.13	320.403	0.45
500.00	0.450	51.840	499.99	1.12	0.99	-0.55	1734473.05	14197327.82	39°05'41.4469"N	80°40'6.5332"W	1.13	330.751	0.29
525.00	0.400	78.600	524.99	1.14	1.07	-0.39	1734473.21	14197327.90	39°05'41.4477"N	80°40'6.5311"W	1.14	339.857	0.81
550.00	0.400	74.440	549.99	1.12	1.11	-0.22	1734473.38	14197327.94	39°05'41.4481"N	80°40'6.5290"W	1.13	348.670	0.12
575.00	0.450	90.100	574.99	1.08	1.13	-0.04	1734473.56	14197327.96	39°05'41.4483"N	80°40'6.5266"W	1.13	357.981	0.50
600.00	0.410	78.570	599.99	1.04	1.15	0.15	1734473.75	14197327.98	39°05'41.4485"N	80°40'6.5243"W	1.16	7.236	0.38
625.00	0.380	83.620	624.99	1.00	1.18	0.32	1734473.92	14197328.01	39°05'41.4487"N	80°40'6.5221"W	1.22	15.036	0.18
650.00	0.420	103.540	649.99	0.94	1.16	0.49	1734474.09	14197327.99	39°05'41.4486"N	80°40'6.5200"W	1.26	22.721	0.58
675.00	0.510	125.680	674.99	0.79	1.08	0.67	1734474.27	14197327.91	39°05'41.4477"N	80°40'6.5177"W	1.27	31.749	0.80
700.00	0.520	128.890	699.99	0.61	0.94	0.85	1734474.45	14197327.77	39°05'41.4464"N	80°40'6.5154"W	1.27	41.923	0.12
725.00	0.470	136.410	724.99	0.42	0.80	1.00	1734474.60	14197327.63	39°05'41.4449"N	80°40'6.5134"W	1.28	51.601	0.33
750.00	0.420	134.330	749.99	0.24	0.66	1.14	1734474.74	14197327.49	39°05'41.4436"N	80°40'6.5117"W	1.32	60.028	0.21
775.00	0.420	124.720	774.98	0.08	0.54	1.28	1734474.88	14197327.37	39°05'41.4424"N	80°40'6.5099"W	1.39	67.089	0.28

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Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

WELLPATH DATA (237 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	0.490	148.450	799.98	-0.09	0.40	1.41	1734475.01	14197327.23	39°05'41.4410"N	80°40'6.5083"W	1.47	74.253	0.80
825.00	0.590	138.730	824.98	-0.32	0.21	1.55	1734475.15	14197327.04	39°05'41.4391"N	80°40'6.5065"W	1.57	82.282	0.54
850.00	0.540	154.320	849.98	-0.55	0.01	1.69	1734475.29	14197326.84	39°05'41.4371"N	80°40'6.5048"W	1.69	89.740	0.64
875.00	0.670	166.210	874.98	-0.82	-0.24	1.78	1734475.37	14197326.59	39°05'41.4347"N	80°40'6.5037"W	1.79	97.712	0.72
900.00	0.810	166.830	899.98	-1.14	-0.55	1.85	1734475.45	14197326.28	39°05'41.4316"N	80°40'6.5027"W	1.93	106.678	0.56
925.00	0.710	158.260	924.98	-1.47	-0.87	1.95	1734475.55	14197325.96	39°05'41.4284"N	80°40'6.5015"W	2.13	114.072	0.60
950.00	0.670	163.470	949.97	-1.77	-1.15	2.05	1734475.65	14197325.68	39°05'41.4256"N	80°40'6.5003"W	2.35	119.417	0.30
975.00	0.510	179.480	974.97	-2.02	-1.41	2.09	1734475.69	14197325.42	39°05'41.4231"N	80°40'6.4997"W	2.52	123.927	0.91
1000.00	0.630	169.610	999.97	-2.26	-1.65	2.12	1734475.71	14197325.18	39°05'41.4207"N	80°40'6.4994"W	2.68	127.987	0.62
1025.00	0.810	186.280	1024.97	-2.56	-1.96	2.12	1734475.72	14197324.87	39°05'41.4176"N	80°40'6.4994"W	2.89	132.783	1.10
1050.00	0.630	190.780	1049.97	-2.83	-2.27	2.08	1734475.68	14197324.56	39°05'41.4146"N	80°40'6.5000"W	3.08	137.601	0.75
1075.00	0.690	190.800	1074.97	-3.08	-2.56	2.02	1734475.62	14197324.27	39°05'41.4118"N	80°40'6.5007"W	3.26	141.657	0.24
1100.00	0.620	194.590	1099.96	-3.33	-2.84	1.96	1734475.56	14197324.00	39°05'41.4090"N	80°40'6.5015"W	3.45	145.346	0.33
1125.00	0.690	185.100	1124.96	-3.57	-3.12	1.91	1734475.51	14197323.71	39°05'41.4062"N	80°40'6.5021"W	3.66	148.461	0.52
1142.00	0.950	188.270	1141.96	-3.79	-3.36	1.88	1734475.48	14197323.47	39°05'41.4039"N	80°40'6.5025"W	3.85	150.714	1.55
1253.00	0.200	78.890	1252.96	-4.64	-4.23	1.94	1734475.54	14197322.60	39°05'41.3952"N	80°40'6.5018"W	4.65	155.357	0.93
1350.00	0.600	92.760	1349.95	-4.85	-4.22	2.61	1734476.21	14197322.61	39°05'41.3953"N	80°40'6.4932"W	4.97	148.239	0.42
1447.00	0.740	105.270	1446.95	-5.40	-4.41	3.73	1734477.32	14197322.42	39°05'41.3934"N	80°40'6.4791"W	5.77	139.821	0.21
1542.00	0.840	143.190	1541.94	-6.41	-5.13	4.73	1734478.33	14197321.70	39°05'41.3862"N	80°40'6.4664"W	6.98	137.301	0.55
1636.00	1.080	155.620	1635.93	-7.95	-6.49	5.51	1734479.11	14197320.34	39°05'41.3728"N	80°40'6.4566"W	8.52	139.651	0.34
1733.00	0.570	157.440	1732.91	-9.35	-7.77	6.08	1734479.67	14197319.06	39°05'41.3601"N	80°40'6.4495"W	9.86	141.969	0.53
1830.00	0.300	160.720	1829.91	-10.08	-8.45	6.34	1734479.94	14197318.38	39°05'41.3533"N	80°40'6.4461"W	10.57	143.109	0.28
1924.00	0.270	126.390	1923.91	-10.51	-8.82	6.60	1734480.20	14197318.02	39°05'41.3497"N	80°40'6.4428"W	11.02	143.165	0.18
2020.00	0.390	129.600	2019.91	-10.98	-9.16	7.04	1734480.64	14197317.67	39°05'41.3463"N	80°40'6.4373"W	11.55	142.461	0.13
2115.00	0.240	98.410	2114.91	-11.35	-9.39	7.48	1734481.08	14197317.44	39°05'41.3440"N	80°40'6.4317"W	12.01	141.458	0.23
2242.00	0.130	166.800	2241.91	-11.62	-9.57	7.78	1734481.38	14197317.26	39°05'41.3422"N	80°40'6.4280"W	12.34	140.901	0.18
2309.00	0.130	219.490	2308.91	-11.73	-9.71	7.75	1734481.35	14197317.13	39°05'41.3409"N	80°40'6.4284"W	12.42	141.398	0.17
2406.00	0.130	200.570	2405.91	-11.87	-9.89	7.64	1734481.24	14197316.94	39°05'41.3390"N	80°40'6.4297"W	12.50	142.324	0.04
2505.00	0.360	191.910	2504.91	-12.22	-10.30	7.54	1734481.13	14197316.53	39°05'41.3350"N	80°40'6.4311"W	12.77	143.816	0.23
2602.00	0.550	211.140	2601.90	-12.78	-11.00	7.23	1734480.83	14197315.83	39°05'41.3281"N	80°40'6.4350"W	13.17	146.674	0.25

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Field	Lewis	API	47041057600000
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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
2699.00	0.710	209.530	2698.90	-13.47	-11.92	6.70	1734480.29	14197314.91	39°05'41.3190"N	80°40'6.4418"W	13.67	150.678	0.17
2749.00	0.900	182.530	2748.89	-14.04	-12.58	6.53	1734480.12	14197314.25	39°05'41.3125"N	80°40'6.4440"W	14.18	152.588	0.84
2882.00	1.940	205.610	2881.85	-16.60	-15.66	5.51	1734479.10	14197311.18	39°05'41.2822"N	80°40'6.4571"W	16.60	160.622	0.88
2979.00	4.040	221.500	2978.71	-19.42	-19.70	2.53	1734476.13	14197307.14	39°05'41.2423"N	80°40'6.4950"W	19.86	172.673	2.31
3076.00	6.170	229.010	3075.33	-22.99	-25.68	-3.67	1734469.93	14197301.16	39°05'41.1835"N	80°40'6.5739"W	25.94	188.127	2.30
3176.00	7.630	229.040	3174.60	-27.41	-33.55	-12.74	1734460.87	14197293.29	39°05'41.1059"N	80°40'6.6893"W	35.89	200.787	1.46
3273.00	9.520	229.440	3270.51	-32.66	-42.99	-23.70	1734449.91	14197283.85	39°05'41.0130"N	80°40'6.8287"W	49.09	208.861	1.95
3370.00	10.400	219.750	3366.05	-40.04	-54.94	-35.39	1734438.23	14197271.91	39°05'40.8954"N	80°40'6.9776"W	65.35	212.787	1.95
3467.00	13.630	229.450	3460.93	-48.65	-69.11	-49.68	1734423.94	14197257.75	39°05'40.7559"N	80°40'7.1595"W	85.11	215.710	3.92
3563.00	16.120	229.760	3553.70	-57.46	-85.07	-68.45	1734405.18	14197241.79	39°05'40.5987"N	80°40'7.3983"W	109.19	218.819	2.60
3660.00	18.280	231.390	3646.36	-67.24	-103.27	-90.62	1734383.02	14197223.60	39°05'40.4197"N	80°40'7.6803"W	137.39	221.267	2.28
3757.00	18.570	228.820	3738.39	-77.96	-122.93	-114.13	1734359.52	14197203.95	39°05'40.2262"N	80°40'7.9795"W	167.74	222.874	0.89
3854.00	18.380	224.370	3830.39	-90.44	-144.03	-136.45	1734337.20	14197182.85	39°05'40.0184"N	80°40'8.2635"W	198.40	223.451	1.47
3950.00	17.790	220.660	3921.65	-104.43	-165.98	-156.59	1734317.07	14197160.92	39°05'39.8023"N	80°40'8.5200"W	228.19	223.333	1.35
4046.00	17.830	220.690	4013.05	-119.07	-188.25	-175.73	1734297.94	14197138.66	39°05'39.5828"N	80°40'8.7638"W	257.52	223.030	0.04
4143.00	17.700	223.050	4105.43	-133.28	-210.28	-195.48	1734278.20	14197116.63	39°05'39.3658"N	80°40'9.0153"W	287.11	222.910	0.75
4240.00	17.420	226.760	4197.91	-145.96	-231.01	-216.12	1734257.56	14197095.91	39°05'39.1617"N	80°40'9.2781"W	316.34	223.093	1.19
4336.00	17.350	224.580	4289.53	-158.03	-251.05	-236.64	1734237.06	14197075.88	39°05'38.9643"N	80°40'9.5392"W	344.99	223.307	0.68
4433.00	16.800	226.850	4382.25	-170.01	-270.93	-257.01	1734216.69	14197056.00	39°05'38.7685"N	80°40'9.7986"W	373.45	223.490	0.89
4534.00	16.210	231.340	4479.09	-180.52	-289.72	-278.67	1734195.04	14197037.22	39°05'38.5836"N	80°40'10.0742"W	401.99	223.886	1.39
4630.00	17.720	231.150	4570.91	-189.79	-307.26	-300.52	1734173.20	14197019.69	39°05'38.4110"N	80°40'10.3520"W	429.79	224.364	1.57
4727.00	17.970	233.340	4663.25	-199.13	-325.45	-324.02	1734149.71	14197001.50	39°05'38.2320"N	80°40'10.6509"W	459.25	224.873	0.74
4823.00	17.980	230.260	4754.56	-208.66	-343.77	-347.29	1734126.45	14196983.19	39°05'38.0519"N	80°40'10.9469"W	488.66	225.292	0.99
4919.00	17.990	226.380	4845.88	-219.88	-363.47	-369.42	1734104.33	14196963.50	39°05'37.8579"N	80°40'11.2285"W	518.25	225.465	1.25
5016.00	17.860	222.430	4938.17	-233.04	-384.78	-390.30	1734083.46	14196942.20	39°05'37.6480"N	80°40'11.4943"W	548.08	225.407	1.26
5112.00	17.010	224.260	5029.76	-246.20	-405.71	-410.03	1734063.73	14196921.28	39°05'37.4419"N	80°40'11.7456"W	576.82	225.304	1.05
5208.00	16.570	228.990	5121.67	-257.46	-424.75	-430.16	1734043.61	14196902.25	39°05'37.2545"N	80°40'12.0018"W	604.52	225.363	1.49
5305.00	16.940	224.940	5214.56	-268.66	-443.83	-450.58	1734023.20	14196883.18	39°05'37.0666"N	80°40'12.2616"W	632.46	225.433	1.26
5400.00	17.170	222.610	5305.38	-281.22	-463.94	-469.85	1734003.94	14196863.07	39°05'36.8685"N	80°40'12.5070"W	660.30	225.362	0.76
5497.00	16.960	220.090	5398.11	-295.11	-485.30	-488.65	1733985.14	14196841.72	39°05'36.6580"N	80°40'12.7465"W	688.70	225.197	0.79

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Actual Wellpath Report

Van Wie 1221 N-1H awp Proj: 19493'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

WELLPATH DATA (237 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]
5594.00	17.110	222.850	5490.86	-308.93	-506.59	-507.47	1733966.33	14196820.44	39°05'36.4483"N	80°40'12.9861"W	717.05	225.050	0.85
5691.00	17.240	222.170	5583.53	-322.40	-527.70	-526.82	1733946.98	14196799.33	39°05'36.2403"N	80°40'13.2325"W	745.66	224.952	0.25
5787.00	17.350	221.260	5675.19	-336.17	-549.01	-545.81	1733928.00	14196778.04	39°05'36.0304"N	80°40'13.4744"W	774.16	224.833	0.30
5884.00	17.260	219.630	5767.80	-350.65	-570.96	-564.53	1733909.29	14196756.09	39°05'35.8141"N	80°40'13.7128"W	802.93	224.675	0.51
5981.00	17.500	221.450	5860.37	-365.15	-592.98	-583.36	1733890.47	14196734.08	39°05'35.5972"N	80°40'13.9526"W	831.83	224.532	0.61
6037.00	17.240	223.850	5913.82	-373.05	-605.33	-594.63	1733879.21	14196721.74	39°05'35.4755"N	80°40'14.0961"W	848.53	224.489	1.08
6118.00	18.190	222.850	5990.98	-384.44	-623.34	-611.45	1733862.39	14196703.74	39°05'35.2981"N	80°40'14.3103"W	873.17	224.448	1.18
6216.00	17.990	229.300	6084.14	-397.04	-644.42	-633.33	1733840.52	14196682.66	39°05'35.0905"N	80°40'14.5888"W	903.54	224.503	2.05
6312.00	16.540	234.390	6175.82	-406.23	-662.05	-655.68	1733818.17	14196665.04	39°05'34.9171"N	80°40'14.8731"W	931.79	224.723	2.18
6409.00	16.440	255.270	6268.91	-408.95	-673.59	-680.20	1733793.66	14196653.50	39°05'34.8039"N	80°40'15.1846"W	957.29	225.280	6.08
6505.00	20.510	277.730	6360.06	-400.15	-674.78	-710.06	1733763.82	14196652.31	39°05'34.7932"N	80°40'15.5633"W	979.55	226.459	8.47
6602.00	22.140	287.180	6450.44	-381.49	-667.10	-744.37	1733729.52	14196660.00	39°05'34.8704"N	80°40'15.9982"W	999.55	228.134	3.92
6699.00	25.750	297.300	6539.12	-355.22	-652.02	-780.58	1733693.32	14196675.06	39°05'35.0207"N	80°40'16.4568"W	1017.08	230.128	5.63
6796.00	32.150	304.330	6623.98	-319.02	-627.77	-820.67	1733653.25	14196699.31	39°05'35.2618"N	80°40'16.9642"W	1033.25	232.586	7.46
6893.00	38.000	307.590	6703.34	-273.11	-594.97	-865.69	1733608.25	14196732.09	39°05'35.5876"N	80°40'17.5336"W	1050.43	235.500	6.33
6990.00	43.300	311.120	6776.91	-219.05	-554.85	-914.45	1733559.51	14196772.20	39°05'35.9859"N	80°40'18.1502"W	1069.61	238.753	5.95
7086.00	49.020	314.960	6843.39	-157.64	-507.54	-964.94	1733509.04	14196819.49	39°05'36.4553"N	80°40'18.7885"W	1090.28	242.256	6.62
7183.00	55.070	318.220	6903.03	-87.78	-451.96	-1017.40	1733456.60	14196875.05	39°05'37.0065"N	80°40'19.4513"W	1113.27	246.048	6.78
7280.00	61.380	320.990	6954.09	-10.80	-389.15	-1070.75	1733403.26	14196937.83	39°05'37.6292"N	80°40'20.1251"W	1139.28	250.027	6.94
7376.00	67.360	323.390	6995.61	71.31	-320.78	-1123.75	1733350.29	14197006.17	39°05'38.3069"N	80°40'20.7942"W	1168.64	254.068	6.62
7472.00	72.530	325.890	7028.52	158.00	-247.25	-1175.89	1733298.17	14197079.68	39°05'39.0355"N	80°40'21.4521"W	1201.60	258.126	5.91
7568.00	78.500	330.430	7052.53	248.72	-168.32	-1224.85	1733249.23	14197158.57	39°05'39.8173"N	80°40'22.0694"W	1236.36	262.175	7.72
7664.00	82.970	331.850	7067.99	342.16	-85.36	-1270.56	1733203.54	14197241.50	39°05'40.6389"N	80°40'22.6454"W	1273.42	266.156	4.88
7759.00	83.860	332.060	7078.88	435.47	-2.07	-1314.93	1733159.19	14197324.76	39°05'41.4637"N	80°40'23.2044"W	1314.93	269.910	0.96
7856.00	83.840	331.960	7089.27	530.83	83.09	-1360.19	1733113.94	14197409.89	39°05'42.3071"N	80°40'23.7746"W	1362.73	273.496	0.10
7952.00	83.860	331.980	7099.56	625.21	167.34	-1405.04	1733069.11	14197494.11	39°05'43.1414"N	80°40'24.3397"W	1414.97	276.792	0.03
8047.00	89.290	331.820	7105.23	718.92	250.96	-1449.69	1733024.47	14197577.69	39°05'43.9695"N	80°40'24.9022"W	1471.26	279.821	5.72
8143.00	91.420	332.190	7104.63	813.84	335.72	-1494.75	1732979.43	14197662.42	39°05'44.8088"N	80°40'25.4699"W	1531.99	282.659	2.25
8239.00	91.170	334.970	7102.46	909.09	421.67	-1537.45	1732936.75	14197748.33	39°05'45.6598"N	80°40'26.0075"W	1594.23	285.337	2.91
8336.00	90.030	338.720	7101.45	1005.86	510.83	-1575.58	1732898.63	14197837.46	39°05'46.5424"N	80°40'26.4872"W	1656.33	287.964	4.04

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Actual Wellpath Report

Van Wie 1221 N-1H awp Proj: 19493'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

WELLPATH DATA (237 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]
8430.00	89.970	336.800	7101.45	1099.75	597.83	-1611.16	1732863.07	14197924.43	39°05'47.4036"N	80°40'26.9344"W	1718.50	290.358	2.04
8527.00	89.660	341.100	7101.76	1196.68	688.34	-1645.99	1732828.25	14198014.90	39°05'48.2994"N	80°40'27.3721"W	1784.13	292.694	4.44
8623.00	89.880	341.130	7102.15	1292.68	779.17	-1677.07	1732797.19	14198105.69	39°05'49.1982"N	80°40'27.7621"W	1849.23	294.920	0.23
8719.00	90.030	341.340	7102.22	1388.67	870.07	-1707.95	1732766.32	14198196.56	39°05'50.0977"N	80°40'28.1497"W	1916.79	296.995	0.27
8816.00	89.970	341.160	7102.22	1485.67	961.92	-1739.13	1732735.15	14198288.37	39°05'51.0067"N	80°40'28.5410"W	1987.42	298.947	0.20
8912.00	89.690	340.940	7102.51	1581.66	1052.72	-1770.30	1732703.99	14198379.13	39°05'51.9052"N	80°40'28.9323"W	2059.66	300.738	0.37
9008.00	89.850	340.250	7102.89	1677.66	1143.26	-1802.20	1732672.11	14198469.64	39°05'52.8012"N	80°40'29.3328"W	2134.24	302.390	0.74
9103.00	89.850	339.990	7103.14	1772.66	1232.60	-1834.50	1732639.82	14198558.95	39°05'53.6854"N	80°40'29.7385"W	2210.14	303.897	0.27
9200.00	89.910	340.180	7103.34	1869.65	1323.80	-1867.54	1732606.79	14198650.11	39°05'54.5880"N	80°40'30.1534"W	2289.14	305.331	0.21
9296.00	89.850	340.070	7103.55	1965.65	1414.08	-1900.18	1732574.17	14198740.36	39°05'55.4814"N	80°40'30.5633"W	2368.61	306.656	0.13
9392.00	89.910	339.870	7103.75	2061.64	1504.27	-1933.06	1732541.30	14198830.51	39°05'56.3740"N	80°40'30.9763"W	2449.40	307.889	0.22
9489.00	90.280	341.260	7103.59	2158.64	1595.74	-1965.33	1732509.04	14198921.95	39°05'57.2793"N	80°40'31.3816"W	2531.59	309.075	1.48
9586.00	89.510	340.170	7103.76	2255.64	1687.30	-1997.37	1732477.01	14199013.47	39°05'58.1853"N	80°40'31.7838"W	2614.66	310.190	1.38
9682.00	87.940	339.110	7105.90	2351.60	1777.27	-2030.76	1732443.64	14199103.41	39°05'59.0758"N	80°40'32.2032"W	2698.65	311.192	1.97
9779.00	89.630	341.840	7107.96	2448.56	1868.66	-2063.17	1732411.24	14199194.76	39°05'59.9802"N	80°40'32.6101"W	2783.62	312.168	3.31
9874.00	91.140	344.000	7107.32	2543.47	1959.46	-2091.07	1732383.35	14199285.53	39°06'0.8786"N	80°40'32.9599"W	2865.67	313.139	2.77
9971.00	89.600	340.300	7106.69	2640.41	2051.77	-2120.79	1732353.64	14199377.80	39°06'1.7921"N	80°40'33.3328"W	2950.85	314.052	4.13
10067.00	89.570	341.470	7107.39	2736.41	2142.48	-2152.23	1732322.22	14199468.47	39°06'2.6897"N	80°40'33.7275"W	3036.82	314.870	1.22
10164.00	90.150	342.410	7107.62	2833.38	2234.70	-2182.30	1732292.16	14199560.65	39°06'3.6022"N	80°40'34.1047"W	3123.51	315.680	1.14
10259.00	90.090	342.550	7107.43	2928.33	2325.29	-2210.90	1732263.57	14199651.21	39°06'4.4986"N	80°40'34.4634"W	3208.59	316.445	0.16
10355.00	89.570	341.870	7107.71	3024.29	2416.70	-2240.23	1732234.25	14199742.58	39°06'5.4031"N	80°40'34.8313"W	3295.31	317.170	0.89
10452.00	89.570	342.040	7108.44	3121.26	2508.92	-2270.27	1732204.22	14199834.77	39°06'6.3157"N	80°40'35.2083"W	3383.61	317.859	0.18
10547.00	87.810	341.700	7110.61	3216.20	2599.18	-2299.83	1732174.67	14199924.99	39°06'7.2088"N	80°40'35.5791"W	3470.58	318.497	1.89
10644.00	90.920	344.000	7111.69	3313.10	2691.84	-2328.42	1732146.09	14200017.62	39°06'8.1257"N	80°40'35.9376"W	3559.15	319.140	3.99
10741.00	89.450	341.820	7111.37	3410.01	2784.55	-2356.92	1732117.60	14200110.29	39°06'9.0430"N	80°40'36.2950"W	3648.13	319.754	2.71
10838.00	89.780	343.030	7112.02	3506.96	2877.02	-2386.21	1732088.32	14200202.72	39°06'9.9580"N	80°40'36.6624"W	3737.81	320.328	1.29
10934.00	87.690	341.920	7114.14	3602.87	2968.54	-2415.11	1732059.44	14200294.20	39°06'10.8635"N	80°40'37.0248"W	3826.87	320.869	2.46
11031.00	88.830	339.400	7117.09	3699.82	3060.01	-2447.22	1732027.34	14200385.64	39°06'11.7688"N	80°40'37.4280"W	3918.23	321.349	2.85
11128.00	89.820	340.940	7118.23	3796.81	3151.25	-2480.12	1731994.45	14200476.84	39°06'12.6717"N	80°40'37.8412"W	4010.16	321.796	1.89
11225.00	89.290	340.540	7118.98	3893.80	3242.82	-2512.11	1731962.47	14200568.38	39°06'13.5779"N	80°40'38.2429"W	4102.02	322.236	0.68

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Van Wie 1221 N-1H awp Proj: 19493'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

WELLPATH DATA (237 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]
11321.00	89.690	341.240	7119.84	3989.80	3333.52	-2543.54	1731931.06	14200659.05	39°06'14.4755"N	80°40'38.6375"W	4193.09	322.656	0.84
11418.00	90.120	341.360	7120.00	4086.79	3425.40	-2574.64	1731899.97	14200750.89	39°06'15.3847"N	80°40'39.0279"W	4285.11	323.070	0.46
11515.00	89.720	341.520	7120.14	4183.78	3517.36	-2605.52	1731869.11	14200842.81	39°06'16.2946"N	80°40'39.4154"W	4377.27	323.470	0.44
11612.00	90.490	341.530	7119.96	4280.76	3609.36	-2636.25	1731838.38	14200934.77	39°06'17.2050"N	80°40'39.8012"W	4469.60	323.856	0.79
11708.00	90.150	341.660	7119.42	4376.74	3700.44	-2666.56	1731808.08	14201025.82	39°06'18.1064"N	80°40'40.1816"W	4561.12	324.223	0.38
11804.00	90.250	341.780	7119.09	4472.72	3791.60	-2696.67	1731777.98	14201116.94	39°06'19.0084"N	80°40'40.5595"W	4652.77	324.579	0.16
11901.00	90.150	340.810	7118.75	4569.71	3883.47	-2727.78	1731746.89	14201208.78	39°06'19.9175"N	80°40'40.9499"W	4745.75	324.916	1.01
11997.00	90.250	341.210	7118.41	4665.71	3974.25	-2759.02	1731715.66	14201299.52	39°06'20.8158"N	80°40'41.3421"W	4838.06	325.231	0.43
12093.00	89.510	339.710	7118.61	4761.71	4064.72	-2791.13	1731683.57	14201389.95	39°06'21.7111"N	80°40'41.7454"W	4930.75	325.524	1.74
12187.00	90.430	340.960	7118.66	4855.70	4153.23	-2822.76	1731651.95	14201478.43	39°06'22.5871"N	80°40'42.1427"W	5021.68	325.798	1.65
12283.00	90.490	341.000	7117.89	4951.70	4243.99	-2854.04	1731620.67	14201569.15	39°06'23.4852"N	80°40'42.5355"W	5114.39	326.080	0.08
12379.00	90.460	341.510	7117.10	5047.69	4334.89	-2884.89	1731589.84	14201660.02	39°06'24.3848"N	80°40'42.9227"W	5207.10	326.356	0.53
12474.00	90.000	338.880	7116.72	5142.68	4424.26	-2917.08	1731557.66	14201749.36	39°06'25.2692"N	80°40'43.3270"W	5299.38	326.602	2.81
12571.00	90.680	341.520	7116.14	5239.66	4515.52	-2949.93	1731524.82	14201840.58	39°06'26.1723"N	80°40'43.7397"W	5393.70	326.844	2.81
12667.00	90.580	341.150	7115.08	5335.65	4606.46	-2980.65	1731494.11	14201931.49	39°06'27.0723"N	80°40'44.1254"W	5486.69	327.095	0.40
12763.00	89.200	341.070	7115.27	5431.64	4697.29	-3011.73	1731463.05	14202022.28	39°06'27.9711"N	80°40'44.5156"W	5579.88	327.333	1.44
12860.00	90.580	343.450	7115.45	5528.59	4789.67	-3041.29	1731433.51	14202114.62	39°06'28.8851"N	80°40'44.8863"W	5673.65	327.586	2.84
12957.00	88.210	337.590	7116.48	5625.54	4881.07	-3073.61	1731401.19	14202205.98	39°06'29.7896"N	80°40'45.2923"W	5768.18	327.801	6.52
13053.00	89.600	339.500	7118.31	5721.45	4970.39	-3108.72	1731366.10	14202295.27	39°06'30.6737"N	80°40'45.7337"W	5862.50	327.976	2.46
13150.00	89.690	341.320	7118.92	5818.44	5061.77	-3141.24	1731333.59	14202386.62	39°06'31.5780"N	80°40'46.1422"W	5957.26	328.177	1.88
13247.00	89.750	340.870	7119.39	5915.44	5153.54	-3172.67	1731302.18	14202478.35	39°06'32.4861"N	80°40'46.5368"W	6051.84	328.382	0.47
13343.00	89.810	340.690	7119.76	6011.44	5244.19	-3204.27	1731270.59	14202568.96	39°06'33.3832"N	80°40'46.9336"W	6145.63	328.574	0.20
13440.00	89.200	341.110	7120.60	6108.43	5335.84	-3236.01	1731238.86	14202660.58	39°06'34.2902"N	80°40'47.3322"W	6240.43	328.765	0.76
13537.00	89.820	340.580	7121.43	6205.43	5427.47	-3267.83	1731207.05	14202752.17	39°06'35.1969"N	80°40'47.7318"W	6335.31	328.948	0.84
13633.00	89.940	341.030	7121.63	6301.43	5518.13	-3299.40	1731175.49	14202842.80	39°06'36.0941"N	80°40'48.1282"W	6429.29	329.124	0.49
13729.00	90.120	341.230	7121.58	6397.42	5608.97	-3330.45	1731144.46	14202933.60	39°06'36.9930"N	80°40'48.5180"W	6523.22	329.299	0.28
13825.00	89.880	341.030	7121.58	6493.42	5699.81	-3361.50	1731113.42	14203024.41	39°06'37.8919"N	80°40'48.9079"W	6617.21	329.470	0.33
13921.00	89.780	340.700	7121.86	6589.41	5790.51	-3392.96	1731081.97	14203115.07	39°06'38.7895"N	80°40'49.3030"W	6711.35	329.632	0.36
14018.00	89.940	340.600	7122.10	6686.41	5882.03	-3425.10	1731049.84	14203206.55	39°06'39.6951"N	80°40'49.7067"W	6806.58	329.788	0.19
14114.00	89.850	340.860	7122.27	6782.41	5972.65	-3456.78	1731018.17	14203297.14	39°06'40.5919"N	80°40'50.1046"W	6900.86	329.939	0.29

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Actual Wellpath Report

Van Wie 1221 N-1H awp Proj: 19493'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

WELLPATH DATA (237 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]
14211.00	89.850	340.650	7122.53	6879.41	6064.23	-3488.76	1730986.21	14203388.68	39°06'41.4982"N	80°40'50.5061"W	6996.16	330.088	0.22
14307.00	89.820	340.970	7122.80	6975.41	6154.89	-3520.31	1730954.67	14203479.31	39°06'42.3954"N	80°40'50.9024"W	7090.51	330.232	0.33
14404.00	91.420	343.790	7121.75	7072.34	6247.32	-3549.67	1730925.32	14203571.70	39°06'43.3100"N	80°40'51.2707"W	7185.35	330.395	3.34
14501.00	90.120	341.050	7120.45	7169.27	6339.77	-3578.96	1730896.04	14203664.12	39°06'44.2248"N	80°40'51.6382"W	7280.23	330.554	3.13
14597.00	89.910	341.300	7120.43	7265.27	6430.64	-3609.94	1730865.08	14203754.95	39°06'45.1239"N	80°40'52.0272"W	7374.60	330.692	0.34
14694.00	89.820	341.150	7120.65	7362.26	6522.48	-3641.16	1730833.87	14203846.75	39°06'46.0327"N	80°40'52.4192"W	7469.99	330.828	0.18
14791.00	89.690	340.890	7121.07	7459.26	6614.20	-3672.71	1730802.33	14203938.44	39°06'46.9404"N	80°40'52.8153"W	7565.48	330.958	0.30
14888.00	89.630	339.550	7121.64	7556.25	6705.47	-3705.53	1730769.52	14204029.68	39°06'47.8437"N	80°40'53.2277"W	7661.22	331.074	1.38
14985.00	89.660	340.570	7122.25	7653.24	6796.66	-3738.61	1730736.46	14204120.82	39°06'48.7460"N	80°40'53.6433"W	7757.04	331.186	1.05
15081.00	89.380	341.450	7123.05	7749.24	6887.43	-3769.85	1730705.23	14204211.56	39°06'49.6443"N	80°40'54.0356"W	7851.65	331.306	0.96
15176.00	89.690	341.000	7123.82	7844.23	6977.37	-3800.42	1730674.67	14204301.47	39°06'50.5343"N	80°40'54.4195"W	7945.24	331.424	0.58
15273.00	90.650	342.060	7123.53	7941.21	7069.37	-3831.15	1730643.95	14204393.43	39°06'51.4447"N	80°40'54.8053"W	8040.75	331.545	1.47
15369.00	90.030	340.640	7122.96	8037.20	7160.32	-3861.85	1730613.26	14204484.35	39°06'52.3447"N	80°40'55.1907"W	8135.36	331.660	1.61
15466.00	90.060	341.190	7122.89	8134.20	7251.99	-3893.56	1730581.56	14204575.98	39°06'53.2518"N	80°40'55.5890"W	8231.11	331.769	0.57
15562.00	90.680	342.050	7122.27	8230.18	7343.09	-3923.83	1730551.30	14204667.04	39°06'54.1533"N	80°40'55.9690"W	8325.71	331.882	1.10
15657.00	90.060	340.920	7121.65	8325.16	7433.17	-3954.00	1730521.15	14204757.09	39°06'55.0447"N	80°40'56.3478"W	8419.39	331.990	1.36
15754.00	90.120	340.810	7121.50	8422.16	7524.81	-3985.80	1730489.37	14204848.69	39°06'55.9515"N	80°40'56.7471"W	8515.24	332.090	0.13
15850.00	89.170	340.630	7122.10	8518.15	7615.42	-4017.49	1730457.68	14204939.27	39°06'56.8482"N	80°40'57.1452"W	8610.17	332.186	1.01
15946.00	89.450	340.950	7123.25	8614.15	7706.07	-4049.08	1730426.11	14205029.88	39°06'57.7452"N	80°40'57.5420"W	8705.09	332.281	0.44
16043.00	89.850	340.580	7123.84	8711.14	7797.66	-4081.03	1730394.17	14205121.43	39°06'58.6515"N	80°40'57.9433"W	8801.04	332.374	0.56
16140.00	89.910	341.040	7124.05	8808.14	7889.27	-4112.92	1730362.29	14205213.00	39°06'59.5581"N	80°40'58.3438"W	8897.00	332.466	0.48
16237.00	90.220	341.800	7123.94	8905.13	7981.21	-4143.82	1730331.40	14205304.91	39°07'0.4679"N	80°40'58.7319"W	8992.83	332.562	0.85
16334.00	89.780	340.980	7123.94	9002.12	8073.14	-4174.78	1730300.46	14205396.80	39°07'1.3775"N	80°40'59.1205"W	9088.69	332.656	0.96
16431.00	89.780	341.010	7124.31	9099.12	8164.85	-4206.37	1730268.88	14205488.48	39°07'2.2851"N	80°40'59.5172"W	9184.68	332.743	0.03
16526.00	89.850	340.960	7124.62	9194.11	8254.66	-4237.32	1730237.94	14205578.26	39°07'3.1739"N	80°40'59.9060"W	9278.70	332.827	0.09
16623.00	89.780	340.920	7124.93	9291.11	8346.35	-4268.99	1730206.28	14205669.90	39°07'4.0811"N	80°41'0.3038"W	9374.74	332.911	0.08
16719.00	89.880	341.320	7125.22	9387.11	8437.18	-4300.06	1730175.23	14205760.70	39°07'4.9800"N	80°41'0.6939"W	9469.77	332.994	0.43
16816.00	89.850	341.220	7125.44	9484.10	8529.04	-4331.21	1730144.09	14205852.53	39°07'5.8890"N	80°41'1.0851"W	9565.77	333.078	0.11
16912.00	90.060	341.510	7125.52	9580.09	8620.01	-4361.88	1730113.43	14205943.46	39°07'6.7892"N	80°41'1.4703"W	9660.78	333.160	0.37
17009.00	89.660	341.320	7125.76	9677.08	8711.95	-4392.80	1730082.52	14206035.37	39°07'7.6990"N	80°41'1.8585"W	9756.78	333.242	0.46

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Van Wie 1221 N-1H awp Proj: 19493'
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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

WELLPATH DATA (237 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]
17106.00	89.540	341.230	7126.43	9774.07	8803.81	-4423.94	1730051.40	14206127.19	39°07'8.6080"N	80°41'2.2495"W	9852.83	333.320	0.15
17203.00	86.950	339.290	7129.40	9871.01	8895.06	-4456.68	1730018.67	14206218.40	39°07'9.5110"N	80°41'2.6609"W	9949.07	333.388	3.34
17299.00	89.630	341.150	7132.27	9966.95	8985.34	-4489.14	1729986.22	14206308.65	39°07'10.4044"N	80°41'3.0688"W	10044.34	333.453	3.40
17394.00	89.600	340.790	7132.91	10061.95	9075.15	-4520.12	1729955.25	14206398.42	39°07'11.2931"N	80°41'3.4579"W	10138.53	333.523	0.38
17490.00	90.120	340.300	7133.14	10157.95	9165.67	-4552.09	1729923.29	14206488.91	39°07'12.1889"N	80°41'3.8596"W	10233.82	333.589	0.74
17586.00	90.180	340.070	7132.89	10253.94	9255.98	-4584.64	1729890.76	14206579.19	39°07'13.0826"N	80°41'4.2685"W	10329.19	333.650	0.25
17682.00	92.770	340.600	7130.42	10349.90	9346.35	-4616.93	1729858.48	14206669.51	39°07'13.9769"N	80°41'4.6743"W	10424.50	333.711	2.75
17779.00	92.220	340.340	7126.20	10446.81	9437.68	-4649.32	1729826.10	14206760.81	39°07'14.8807"N	80°41'5.0813"W	10520.74	333.774	0.63
17876.00	92.120	339.570	7122.52	10543.73	9528.74	-4682.55	1729792.89	14206851.83	39°07'15.7818"N	80°41'5.4989"W	10617.11	333.830	0.80
17973.00	92.400	340.710	7118.70	10640.65	9619.89	-4715.48	1729759.97	14206942.95	39°07'16.6840"N	80°41'5.9126"W	10713.45	333.887	1.21
18070.00	90.890	340.510	7115.91	10737.61	9711.35	-4747.66	1729727.80	14207034.38	39°07'17.5890"N	80°41'6.3170"W	10809.75	333.947	1.57
18165.00	90.980	340.350	7114.36	10832.60	9800.85	-4779.48	1729695.99	14207123.84	39°07'18.4747"N	80°41'6.7168"W	10904.13	334.003	0.19
18260.00	90.680	340.290	7112.99	10927.59	9890.29	-4811.47	1729664.01	14207213.25	39°07'19.3598"N	80°41'7.1188"W	10998.55	334.058	0.32
18357.00	90.430	340.580	7112.05	11024.58	9981.69	-4843.95	1729631.55	14207304.61	39°07'20.2642"N	80°41'7.5269"W	11094.95	334.113	0.39
18453.00	89.230	339.160	7112.33	11120.57	10071.82	-4876.99	1729598.52	14207394.70	39°07'21.1562"N	80°41'7.9421"W	11190.47	334.163	1.94
18550.00	89.910	340.290	7113.06	11217.55	10162.81	-4910.60	1729564.92	14207485.65	39°07'22.0566"N	80°41'8.3646"W	11287.01	334.210	1.36
18647.00	89.880	340.110	7113.24	11314.55	10254.07	-4943.46	1729532.08	14207576.88	39°07'22.9598"N	80°41'8.7775"W	11383.49	334.261	0.19
18743.00	88.740	339.980	7114.39	11410.54	10344.30	-4976.22	1729499.33	14207667.07	39°07'23.8527"N	80°41'9.1893"W	11478.99	334.310	1.20
18840.00	89.940	340.140	7115.51	11507.53	10435.48	-5009.30	1729466.27	14207758.22	39°07'24.7550"N	80°41'9.6050"W	11575.50	334.358	1.25
18937.00	89.540	339.850	7115.95	11604.52	10526.62	-5042.48	1729433.10	14207849.33	39°07'25.6570"N	80°41'10.0220"W	11672.03	334.405	0.51
19034.00	89.380	340.240	7116.87	11701.51	10617.79	-5075.58	1729400.01	14207940.46	39°07'26.5593"N	80°41'10.4381"W	11768.56	334.451	0.43
19130.00	89.450	340.340	7117.85	11797.51	10708.16	-5107.96	1729367.64	14208030.80	39°07'27.4536"N	80°41'10.8449"W	11864.06	334.498	0.13
19227.00	89.630	340.530	7118.63	11894.50	10799.56	-5140.44	1729335.18	14208122.16	39°07'28.3580"N	80°41'11.2531"W	11960.54	334.546	0.27
19324.00	89.660	340.160	7119.23	11991.50	10890.91	-5173.06	1729302.56	14208213.47	39°07'29.2620"N	80°41'11.6631"W	12057.05	334.593	0.38
19420.00	89.630	340.250	7119.82	12087.50	10981.23	-5205.58	1729270.06	14208303.76	39°07'30.1559"N	80°41'12.0716"W	12152.59	334.637	0.10
19467.00	89.660	340.180	7120.11	12134.49	11025.46	-5221.48	1729254.16	14208347.97	39°07'30.5935"N	80°41'12.2716"W	12199.37	334.658	0.16
19493.00‡	89.660	340.180	7120.27	12160.49	11049.92	-5230.30	1729245.35	14208372.42	39°07'30.8356"N	80°41'12.3824"W	12225.25	334.670	0.00

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Van Wie 1221 N-1H awp Proj: 19493'

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REFERENCE WELLPATH IDENTIFICATION

Operator	HG ENERGY II APPALACHIA, LLC	Well	Van Wie 1221 N-1H
Field	Lewis	API	47041057600000
Facility	Van Wie 1221 Pad	Wellbore	Van Wie 1221 N-1H AWB
Slot	1H		

HOLE & CASING SECTIONS - Ref Wellbore: Van Wie 1221 N-1H AWB Ref Wellpath: Van Wie 1221 N-1H awp Proj: 19493'

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	2749.00	2724.00	25.00	2748.89	0.00	0.00	-12.58	6.53
9.625in Casing	25.00	5981.00	5956.00	25.00	5860.37	0.00	0.00	-592.98	-583.36
5.5in Casing	25.00	19493.00	19468.00	25.00	7120.27	0.00	0.00	11049.92	-5230.30

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1221 N-1H BHL rev 1	7060.00	11052.25	-5228.38	1729247.27	14208374.75	39°07'30.8586"N	80°41'12.3579"W	point
1221 N-1H LP rev 1	7060.00	-8.23	-1327.69	1733146.43	14197318.60	39°05'41.4033"N	80°40'23.3666"W	point

WELLPATH COMPOSITION - Ref Wellbore: Van Wie 1221 N-1H AWB Ref Wellpath: Van Wie 1221 N-1H awp Proj: 19493'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
25.00	1142.00	BH Generic gyro - northseeking (Standard)	1 SDI Keeper 18.5" 100' - 1142'	Van Wie 1221 N-1H AWB	11/29/2024
1142.00	2749.00	BH NaviTrak (2019) (Axial Corr+HRGM)	2 APS EM 17.5" 1253' - 2749'	Van Wie 1221 N-1H AWB	11/29/2024
2749.00	6037.00	BH NaviTrak (2019) (Axial Corr+HRGM)	3 APS EM 12.25" 2882' - 6037'	Van Wie 1221 N-1H AWB	11/29/2024
6037.00	19493.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC HRGM short spacing 8.5" 6118' - 19467'	Van Wie 1221 N-1H AWB	11/29/2024

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