



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 1 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Edsaryar
Scale	0.999942	Report Generated	2/4/2025 at 1:06:19 PM
Convergence at slot	0.62° West	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	-43.73	-10.06	1725033.80	382800.56	39°32'48.8923"N	80°28'30.3160"W
Facility Reference Pt			1725043.86	382844.29	39°32'49.3256"N	80°28'30.1936"W
Field Reference Pt			1931053.01	433518.91	39°41'24.0000"N	79°44'42.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 294 (RKB) to Facility Vertical Datum	1386.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	1386.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Ground Level at Slot (Slot #02)	28.00ft
MD Reference Pt	Patterson 294 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	168.74°

RECEIVED
Office of Oil and Gas
AUG 18 2025
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 2 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	262.250	0.00	0.00	0.00	0.00	1725033.80	382800.56	39°32'48.8923"N	80°28'30.3160"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	262.250	28.00	0.00	0.00	0.00	1725033.80	382800.56	39°32'48.8923"N	80°28'30.3160"W	0.00	0.000	0.00	0.00	0.00
115.00	0.170	262.250	115.00	-0.01	-0.02	-0.13	1725033.67	382800.54	39°32'48.8921"N	80°28'30.3176"W	0.13	262.250	0.20	0.20	0.00
215.00	0.230	267.670	215.00	-0.01	-0.08	-0.47	1725033.33	382800.48	39°32'48.8914"N	80°28'30.3220"W	0.48	260.328	0.06	0.06	-4.58
315.00	0.260	258.870	315.00	-0.01	-0.17	-0.89	1725032.91	382800.39	39°32'48.8905"N	80°28'30.3273"W	0.91	259.373	0.03	0.03	1.20
415.00	0.350	260.380	415.00	-0.02	-0.26	-1.41	1725032.39	382800.30	39°32'48.8895"N	80°28'30.3340"W	1.44	259.508	0.09	0.09	1.51
515.00	0.440	289.510	514.99	-0.22	-0.18	-2.08	1725031.72	382800.38	39°32'48.8902"N	80°28'30.3425"W	2.08	264.920	0.22	0.09	29.13
615.00	0.500	293.390	614.99	-0.67	0.12	-2.84	1725030.96	382800.68	39°32'48.8931"N	80°28'30.3523"W	2.84	272.357	0.07	0.06	3.88
715.00	0.180	306.990	714.99	-1.03	0.38	-3.36	1725030.44	382800.94	39°32'48.8957"N	80°28'30.3590"W	3.39	276.521	0.33	-0.32	13.60
815.00	0.260	285.660	814.99	-1.25	0.54	-3.71	1725030.09	382801.10	39°32'48.8972"N	80°28'30.3634"W	3.75	278.290	0.11	0.08	-21.33
915.00	0.390	292.340	914.99	-1.55	0.73	-4.24	1725029.58	382801.29	39°32'48.8990"N	80°28'30.3702"W	4.30	279.777	0.14	0.13	6.68
1015.00	0.270	310.700	1014.99	-1.92	1.01	-4.74	1725029.06	382801.57	39°32'48.9018"N	80°28'30.3766"W	4.84	282.086	0.16	-0.12	18.36
1115.00	0.300	294.150	1114.98	-2.26	1.27	-5.15	1725028.65	382801.83	39°32'48.9043"N	80°28'30.3820"W	5.31	283.895	0.09	0.03	-16.55
1138.00	0.390	284.680	1137.98	-2.33	1.32	-5.28	1725028.52	382801.88	39°32'48.9047"N	80°28'30.3836"W	5.45	284.019	0.46	0.39	-41.17
1292.00	0.680	284.320	1291.98	-2.95	1.68	-6.68	1725027.12	382802.24	39°32'48.9081"N	80°28'30.4015"W	6.88	284.109	0.19	0.19	-0.23
1335.00	1.010	285.790	1334.97	-3.23	1.84	-7.29	1725026.51	382802.40	39°32'48.9097"N	80°28'30.4093"W	7.52	284.201	0.77	0.77	3.42
1377.00	1.810	284.290	1376.96	-3.69	2.11	-8.29	1725025.51	382802.67	39°32'48.9122"N	80°28'30.4221"W	8.55	284.277	1.91	1.90	-3.57
1421.00	2.650	280.370	1420.93	-4.36	2.46	-9.96	1725023.84	382803.02	39°32'48.9156"N	80°28'30.4435"W	10.26	283.891	1.94	1.91	-8.91
1463.00	3.530	280.300	1462.86	-5.19	2.87	-12.19	1725021.61	382803.43	39°32'48.9193"N	80°28'30.4720"W	12.52	283.247	2.10	2.10	-0.17
1506.00	4.610	281.150	1505.75	-6.34	3.44	-15.19	1725018.61	382804.00	39°32'48.9246"N	80°28'30.5103"W	15.57	282.764	2.52	2.51	1.98
1548.00	5.260	284.560	1547.60	-7.82	4.25	-18.71	1725015.09	382804.81	39°32'48.9323"N	80°28'30.5554"W	19.18	282.802	1.70	1.55	8.12
1590.00	5.890	284.240	1589.40	-9.59	5.26	-22.66	1725011.14	382805.82	39°32'48.9419"N	80°28'30.6060"W	23.26	283.081	1.50	1.50	-0.76
1632.00	6.790	285.070	1631.14	-11.62	6.44	-27.14	1725006.66	382807.00	39°32'48.9530"N	80°28'30.6634"W	27.90	283.347	2.15	2.14	1.98
1675.00	7.450	286.170	1673.81	-14.03	7.88	-32.28	1725001.52	382808.44	39°32'48.9667"N	80°28'30.7291"W	33.22	283.716	1.57	1.53	2.56
1718.00	8.250	286.300	1716.41	-16.74	9.52	-37.91	1724995.89	382810.08	39°32'48.9823"N	80°28'30.8013"W	39.09	284.095	1.88	1.86	0.30
1761.00	8.840	285.560	1758.93	-19.66	11.27	-44.06	1724989.74	382811.83	39°32'48.9990"N	80°28'30.8800"W	45.48	284.351	1.40	1.37	-1.72
1804.00	9.600	285.550	1801.37	-22.77	13.12	-50.70	1724983.10	382813.68	39°32'49.0165"N	80°28'30.9650"W	52.37	284.509	1.77	1.77	-0.02
1847.00	9.910	284.870	1843.75	-26.01	15.03	-57.73	1724976.07	382815.59	39°32'49.0346"N	80°28'31.0550"W	59.65	284.594	0.77	0.72	-1.58
1933.00	10.430	284.310	1928.40	-32.63	18.85	-72.42	1724961.38	382819.41	39°32'49.0708"N	80°28'31.2431"W	74.84	284.592	0.62	0.60	-0.65
2017.00	10.590	284.710	2010.99	-39.29	22.69	-87.26	1724946.54	382823.25	39°32'49.1072"N	80°28'31.4330"W	90.16	284.578	0.21	0.19	0.48

RECEIVED
Office of Oil and Gas
AUG 18 2025
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 3 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWP
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2102.00	10.180	287.990	2094.60	-46.38	27.00	-101.95	1724931.85	382827.56	39°32'49.1481"N	80°28'31.6212"W	105.47	284.831	0.85	-0.48	3.86
2187.00	10.270	291.870	2178.25	-54.20	32.14	-116.13	1724917.67	382832.70	39°32'49.1975"N	80°28'31.8029"W	120.50	285.469	0.82	0.11	4.56
2273.00	10.850	291.800	2262.79	-62.80	38.00	-130.76	1724903.04	382838.56	39°32'49.2538"N	80°28'31.9905"W	136.17	286.204	0.67	0.67	-0.08
2359.00	10.730	289.500	2347.27	-71.31	43.68	-145.82	1724887.98	382844.24	39°32'49.3083"N	80°28'32.1835"W	152.22	286.675	0.52	-0.14	-2.67
2445.00	10.420	286.700	2431.81	-79.05	48.59	-160.82	1724872.98	382849.15	39°32'49.3552"N	80°28'32.3756"W	168.00	286.810	0.70	-0.36	-3.26
2530.00	10.960	286.140	2515.34	-86.38	53.04	-175.94	1724857.86	382853.60	39°32'49.3976"N	80°28'32.5693"W	183.76	286.776	0.65	0.64	-0.66
2615.00	11.500	285.170	2598.71	-93.87	57.50	-191.88	1724841.92	382858.06	39°32'49.4400"N	80°28'32.7734"W	200.31	286.683	0.67	0.64	-1.14
2649.00	11.760	284.500	2632.01	-96.88	59.26	-198.51	1724835.29	382859.82	39°32'49.4566"N	80°28'32.8582"W	207.16	286.621	0.86	0.76	-1.97
2748.00	11.890	282.170	2728.91	-105.32	63.94	-218.25	1724815.55	382864.50	39°32'49.5007"N	80°28'33.1108"W	227.42	286.328	0.50	0.13	-2.35
2792.00	11.540	280.150	2772.00	-108.73	65.87	-227.01	1724808.79	382866.23	39°32'49.5169"N	80°28'33.2229"W	236.32	286.133	1.23	-0.80	-4.59
2833.00	11.610	280.930	2812.16	-111.78	67.17	-235.10	1724798.70	382867.73	39°32'49.5309"N	80°28'33.3264"W	244.50	285.946	0.42	0.17	1.90
2876.00	12.190	282.000	2854.24	-115.21	68.94	-243.79	1724790.02	382869.50	39°32'49.5474"N	80°28'33.4376"W	253.34	285.789	1.44	1.35	2.49
2918.00	13.260	284.740	2895.21	-119.07	71.08	-252.78	1724781.02	382871.64	39°32'49.5677"N	80°28'33.5527"W	262.59	285.706	2.92	2.55	6.52
2961.00	14.430	287.920	2936.96	-123.85	73.99	-262.65	1724771.15	382874.55	39°32'49.5953"N	80°28'33.6791"W	272.87	285.732	3.24	2.72	7.40
3004.00	15.790	288.360	2978.47	-129.35	77.48	-273.30	1724760.50	382878.04	39°32'49.6287"N	80°28'33.8155"W	284.07	285.828	3.15	3.14	1.07
3046.00	17.100	287.540	3018.75	-135.15	81.14	-284.60	1724749.20	382881.70	39°32'49.6637"N	80°28'33.9603"W	295.94	285.913	3.19	3.14	-2.00
3088.00	18.620	287.740	3058.73	-141.38	85.04	-296.88	1724736.92	382885.60	39°32'49.7009"N	80°28'34.1175"W	308.82	285.985	3.62	3.62	0.48
3131.00	20.260	288.750	3099.27	-148.43	89.53	-310.47	1724723.33	382890.09	39°32'49.7438"N	80°28'34.2916"W	323.12	286.086	3.89	3.81	2.35
3175.00	22.140	290.070	3140.29	-156.55	94.82	-325.47	1724708.33	382895.38	39°32'49.7945"N	80°28'34.4839"W	339.00	286.243	4.41	4.27	3.00
3218.00	23.510	291.290	3179.93	-165.38	100.72	-341.07	1724692.73	382901.28	39°32'49.8511"N	80°28'34.6839"W	355.83	286.452	3.37	3.19	2.84
3260.00	24.610	291.440	3218.28	-174.61	106.96	-357.02	1724676.78	382907.52	39°32'49.9110"N	80°28'34.8883"W	372.70	286.677	2.62	2.62	0.36
3304.00	26.400	291.390	3257.99	-184.84	113.87	-374.66	1724659.14	382914.43	39°32'49.9775"N	80°28'35.1144"W	391.58	286.906	4.07	4.07	-0.11
3348.00	28.400	290.970	3297.05	-195.70	121.19	-393.54	1724640.26	382921.75	39°32'50.0478"N	80°28'35.3564"W	411.77	287.116	4.57	4.55	-0.95
3390.00	30.190	291.650	3333.68	-206.76	128.66	-412.68	1724621.12	382929.22	39°32'50.1195"N	80°28'35.6019"W	432.27	287.316	4.33	4.26	1.62
3433.00	31.990	292.890	3370.50	-219.03	137.08	-433.22	1724600.58	382937.64	39°32'50.2006"N	80°28'35.8653"W	454.39	287.558	4.44	4.19	2.88
3475.00	33.500	292.040	3405.82	-231.64	145.76	-454.22	1724579.58	382946.32	39°32'50.2841"N	80°28'36.1345"W	477.03	287.791	3.76	3.60	-2.02
3518.00	35.050	289.810	3441.36	-244.53	154.39	-476.84	1724556.96	382954.95	39°32'50.3670"N	80°28'36.4244"W	501.21	287.941	4.64	3.60	-5.19
3560.00	36.680	287.360	3475.39	-256.77	162.23	-500.16	1724533.64	382962.79	39°32'50.4419"N	80°28'36.7232"W	525.81	287.970	5.17	3.88	-5.83
3602.00	37.950	286.620	3508.80	-268.81	169.60	-524.51	1724509.29	382970.22	39°32'50.5128"N	80°28'37.0351"W	551.27	287.925	3.21	3.02	-1.76
3646.00	39.370	286.950	3543.15	-281.74	177.60	-550.82	1724482.98	382978.16	39°32'50.5884"N	80°28'37.3721"W	578.75	287.871	3.26	3.23	0.76

RECEIVED
Office of Oil and Gas
AUG 18 2023
WV Department of Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 4 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
3689.00	40.000	287.000	3576.25	-294.73	185.62	-577.08	1724456.72	382986.18	39°32'50.6648"N	80°28'37.7084"W	606.20	287.830	1.47	1.47	0.12
3776.00	41.250	285.970	3642.28	-321.09	201.69	-631.40	1724402.40	383002.24	39°32'50.8178"N	80°28'38.4040"W	662.83	287.715	1.63	1.44	-1.18
3861.00	41.990	284.350	3705.82	-346.20	216.44	-685.89	1724347.91	383017.00	39°32'50.9578"N	80°28'39.1017"W	719.23	287.514	1.54	0.87	-1.91
3946.00	41.620	282.990	3769.18	-370.09	229.83	-740.94	1724292.86	383030.39	39°32'51.0842"N	80°28'39.8063"W	775.77	287.234	1.15	-0.44	-1.60
4032.00	40.720	283.410	3833.92	-393.53	242.76	-796.06	1724237.74	383043.32	39°32'51.2060"N	80°28'40.5117"W	832.25	286.959	1.09	-1.05	0.49
4117.00	39.920	284.370	3898.73	-416.90	255.96	-849.45	1724184.35	383056.52	39°32'51.3307"N	80°28'41.1951"W	887.18	286.769	1.19	-0.94	1.13
4202.00	38.910	286.140	3964.40	-440.98	270.15	-901.51	1724132.29	383070.71	39°32'51.4654"N	80°28'41.8617"W	941.12	286.681	1.78	-1.19	2.08
4288.00	38.600	288.610	4031.47	-466.77	286.22	-952.89	1724080.92	383086.78	39°32'51.6187"N	80°28'42.5197"W	994.94	286.719	1.83	-0.36	2.87
4374.00	39.290	289.560	4098.35	-494.08	303.90	-1003.97	1724029.83	383104.46	39°32'51.7879"N	80°28'43.1742"W	1048.96	286.841	1.06	0.80	1.10
4459.00	39.710	287.970	4163.94	-521.13	321.29	-1055.16	1723978.64	383121.85	39°32'51.9542"N	80°28'43.8301"W	1102.99	286.935	1.29	0.49	-1.87
4545.00	39.880	287.760	4230.02	-547.92	338.17	-1107.55	1723926.25	383138.73	39°32'52.1155"N	80°28'44.5013"W	1158.03	286.979	0.25	0.20	-0.24
4630.00	39.400	287.770	4295.48	-574.23	354.72	-1159.19	1723874.61	383155.28	39°32'52.2734"N	80°28'45.1628"W	1212.25	287.014	0.56	-0.56	0.01
4715.00	39.660	287.890	4361.04	-600.54	371.28	-1210.69	1723823.11	383171.84	39°32'52.4316"N	80°28'45.8225"W	1266.34	287.049	0.32	0.31	0.14
4800.00	40.900	289.410	4425.88	-627.95	388.86	-1262.75	1723771.05	383189.42	39°32'52.5997"N	80°28'46.4896"W	1321.27	287.116	1.86	1.46	1.79
4886.00	41.000	288.950	4490.84	-656.50	407.38	-1315.99	1723717.81	383207.94	39°32'52.7770"N	80°28'47.1717"W	1377.60	287.201	0.37	0.12	-0.53
4963.00	41.510	288.300	4548.72	-681.80	423.60	-1364.10	1723669.70	383224.15	39°32'52.9321"N	80°28'47.7882"W	1428.36	287.251	0.87	0.66	-0.84
5048.00	41.640	288.050	4612.31	-709.52	441.19	-1417.70	1723616.11	383241.75	39°32'53.1002"N	80°28'48.4748"W	1484.76	287.286	0.25	0.15	-0.29
5134.00	40.410	287.120	4677.19	-736.76	458.25	-1471.50	1723562.30	383258.81	39°32'53.2630"N	80°28'49.1640"W	1541.21	287.297	1.60	-1.43	-1.08
5219.00	38.900	287.350	4742.63	-762.63	474.32	-1523.31	1723510.49	383274.88	39°32'53.4162"N	80°28'49.8278"W	1595.45	287.295	1.78	-1.78	0.27
5305.00	37.610	287.880	4810.16	-788.35	490.43	-1574.06	1723459.74	383290.99	39°32'53.5700"N	80°28'50.4777"W	1648.69	287.308	1.55	-1.50	0.83
5390.00	36.950	288.270	4877.79	-813.57	506.41	-1623.00	1723410.80	383306.97	39°32'53.7226"N	80°28'51.1047"W	1700.17	287.329	0.82	-0.78	0.45
5476.00	37.450	289.020	4946.30	-839.50	523.03	-1672.27	1723361.53	383323.59	39°32'53.8816"N	80°28'51.7360"W	1752.15	287.368	0.78	0.58	0.87
5562.00	39.790	290.500	5013.49	-867.17	541.20	-1722.77	1723311.03	383341.75	39°32'54.0557"N	80°28'52.3832"W	1805.78	287.440	2.93	2.72	1.72
5648.00	41.250	290.370	5078.86	-896.52	560.70	-1775.13	1723258.67	383361.26	39°32'54.2428"N	80°28'53.0543"W	1861.58	287.530	1.70	1.70	-0.15
5734.00	41.380	289.430	5143.45	-925.90	580.03	-1828.52	1723205.29	383380.59	39°32'54.4280"N	80°28'53.7385"W	1918.31	287.600	0.74	0.15	-1.08
5820.00	42.580	288.380	5207.38	-954.80	598.66	-1882.94	1723150.87	383399.22	39°32'54.6063"N	80°28'54.4358"W	1975.81	287.637	1.62	1.40	-1.22
5906.00	42.550	287.430	5270.72	-983.15	616.54	-1938.29	1723095.51	383417.10	39°32'54.7771"N	80°28'55.1449"W	2033.98	287.645	0.75	-0.03	-1.10
5992.00	41.410	286.080	5334.66	-1010.17	633.13	-1993.36	1723040.44	383433.69	39°32'54.9351"N	80°28'55.8503"W	2091.50	287.621	1.69	-1.33	-1.57
6076.00	40.670	285.430	5398.01	-1035.23	648.11	-2046.44	1722987.36	383448.67	39°32'55.0774"N	80°28'56.5300"W	2146.62	287.573	1.02	-0.88	-0.77
6161.00	40.450	285.540	5462.69	-1060.10	662.87	-2099.71	1722934.10	383463.42	39°32'55.2174"N	80°28'57.2120"W	2201.86	287.521	0.27	-0.26	0.13

REVIEWED
Office of Oil and Gas
Aug 18 2025
Environmental Protection
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'
Page 5 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
6248.00	39.980	287.010	5529.03	-1086.06	678.60	-2153.63	1722880.18	383479.16	39°32'55.3672"N	80°28'57.9025"W	2258.01	287.490	1.22	-0.54	1.69
6334.00	40.420	288.650	5594.71	-1113.05	695.60	-2206.47	1722827.34	383496.16	39°32'55.5294"N	80°28'58.5794"W	2313.51	287.498	1.33	0.51	1.91
6420.00	41.810	288.900	5659.50	-1141.36	713.80	-2260.01	1722773.80	383514.36	39°32'55.7035"N	80°28'59.2654"W	2370.05	287.528	1.63	1.62	0.29
6504.00	42.190	287.400	5721.93	-1168.95	731.31	-2313.41	1722720.39	383531.87	39°32'55.8708"N	80°28'59.9496"W	2426.25	287.543	1.28	0.45	-1.79
6591.00	40.900	286.290	5787.04	-1196.14	748.04	-2368.63	1722665.17	383548.59	39°32'56.0301"N	80°29'0.6569"W	2483.94	287.527	1.71	-1.48	-1.28
6681.00	39.750	285.990	5855.66	-1222.94	764.23	-2424.58	1722609.23	383564.79	39°32'56.1841"N	80°29'1.3733"W	2542.17	287.495	1.30	-1.28	-0.33
6757.00	38.950	288.730	5914.43	-1246.01	778.59	-2470.56	1722563.24	383579.15	39°32'56.3211"N	80°29'1.9623"W	2590.34	287.492	2.52	-1.05	3.61
6841.00	38.050	289.950	5980.17	-1272.62	795.90	-2519.90	1722513.90	383596.46	39°32'56.4868"N	80°29'2.5946"W	2642.61	287.529	1.40	-1.07	1.45
6926.00	40.610	290.300	6045.91	-1300.68	814.44	-2570.48	1722463.33	383615.00	39°32'56.6646"N	80°29'3.2429"W	2696.42	287.581	3.02	3.01	0.41
7011.00	40.580	289.010	6110.47	-1329.09	833.04	-2622.55	1722411.25	383633.60	39°32'56.8428"N	80°29'3.9102"W	2751.68	287.622	0.99	-0.06	-1.52
7097.00	40.070	287.090	6176.04	-1356.33	850.28	-2675.45	1722358.36	383650.84	39°32'57.0075"N	80°29'4.5879"W	2807.31	287.631	1.55	-0.57	-2.23
7184.00	39.360	285.890	6242.97	-1382.22	866.07	-2728.75	1722305.06	383666.63	39°32'57.1577"N	80°29'5.2705"W	2862.89	287.609	1.20	-0.82	-1.38
7270.00	38.500	285.190	6309.87	-1406.58	880.55	-2780.81	1722252.99	383681.11	39°32'57.2951"N	80°29'5.9372"W	2916.89	287.570	1.12	-1.00	-0.81
7354.00	37.670	286.730	6375.98	-1430.28	894.79	-2830.63	1722203.18	383695.35	39°32'57.4305"N	80°29'6.5751"W	2968.68	287.542	1.50	-0.99	1.83
7441.00	37.940	289.560	6444.73	-1456.46	911.40	-2881.29	1722152.52	383711.95	39°32'57.5891"N	80°29'7.2242"W	3022.00	287.553	2.02	0.31	3.25
7525.00	38.310	289.120	6510.81	-1482.85	928.57	-2930.22	1722103.58	383729.13	39°32'57.7535"N	80°29'7.8512"W	3073.83	287.583	0.55	0.44	-0.52
7610.00	39.740	285.730	6576.85	-1508.51	944.57	-2981.28	1722052.53	383745.13	39°32'57.9061"N	80°29'8.5052"W	3127.33	287.580	3.02	1.68	-3.99
7698.00	41.270	284.430	6643.76	-1533.86	959.43	-3036.46	1721997.34	383759.99	39°32'58.0470"N	80°29'9.2118"W	3184.43	287.535	1.99	1.74	-1.48
7735.00	41.330	284.580	6671.56	-1544.48	965.54	-3060.11	1721973.70	383766.10	39°32'58.1049"N	80°29'9.5145"W	3208.82	287.512	0.31	0.16	0.41
7789.00	40.810	283.620	6712.27	-1559.67	974.19	-3094.51	1721938.29	383774.75	39°32'58.1866"N	80°29'9.9549"W	3244.23	287.475	1.51	-0.96	-1.78
7884.00	43.090	288.910	6782.94	-1589.06	992.02	-3155.41	1721878.40	383792.58	39°32'58.3562"N	80°29'10.7348"W	3307.68	287.453	4.43	2.40	5.57
7978.00	44.650	289.760	6850.70	-1622.22	1013.60	-3216.87	1721816.93	383814.15	39°32'58.5628"N	80°29'11.5225"W	3372.78	287.489	1.77	1.66	0.90
8073.00	46.810	294.600	6917.03	-1659.72	1039.31	-3279.81	1721754.00	383839.87	39°32'58.8101"N	80°29'12.3295"W	3440.54	287.582	4.30	2.27	5.09
8168.00	46.870	292.650	6982.02	-1699.35	1067.08	-3343.29	1721690.52	383867.63	39°32'59.0776"N	80°29'13.1438"W	3509.45	287.702	1.50	0.06	-2.05
8262.00	43.070	277.690	7048.70	-1729.01	1084.64	-3406.95	1721626.85	383885.19	39°32'59.2443"N	80°29'13.9590"W	3575.44	287.659	11.93	-4.04	-15.91
8357.00	39.830	265.030	7120.02	-1742.90	1086.35	-3469.54	1721564.27	383886.90	39°32'59.2544"N	80°29'14.7581"W	3635.64	287.386	9.44	-3.41	-13.33
8451.00	38.330	256.540	7193.04	-1745.08	1076.94	-3527.92	1721505.88	383877.50	39°32'59.1551"N	80°29'15.5022"W	3688.64	286.975	5.91	-1.60	-9.03
8546.00	38.350	243.580	7267.68	-1736.23	1056.94	-3583.06	1721450.75	383857.50	39°32'58.9514"N	80°29'16.2032"W	3735.70	286.435	8.45	0.02	-13.64
8641.00	39.750	230.680	7341.58	-1714.20	1024.53	-3633.03	1721400.77	383825.08	39°32'58.6256"N	80°29'16.8366"W	3774.73	285.749	8.67	1.47	-13.58
8736.00	42.880	217.220	7413.06	-1678.40	979.44	-3676.18	1721357.63	383780.00	39°32'58.1753"N	80°29'17.3811"W	3804.42	284.919	9.90	3.29	-14.17

RECEIVED
Office of Oil and Gas
Aug 18 2015
W.D. Williams
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 6 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8830.00	47.370	205.360	7479.49	-1629.34	922.59	-3710.41	1721323.39	383723.15	39°32'57.6098"N	80°29'17.8101"W	3823.40	283.963	10.12	4.78	-12.62
8924.00	52.650	194.470	7539.98	-1567.77	855.00	-3734.62	1721299.19	383655.56	39°32'56.9391"N	80°29'18.1097"W	3831.24	282.895	10.49	5.62	-11.59
9018.00	58.590	186.320	7593.10	-1495.73	778.80	-3748.40	1721285.41	383579.36	39°32'56.1845"N	80°29'18.2749"W	3828.45	281.737	9.54	6.32	-8.67
9113.00	65.000	178.780	7638.03	-1414.52	695.29	-3751.95	1721281.85	383495.85	39°32'55.3587"N	80°29'18.3085"W	3815.83	280.499	9.71	6.75	-7.94
9207.00	72.570	173.300	7672.04	-1327.89	607.98	-3745.80	1721268.01	383408.54	39°32'54.4965"N	80°29'18.2177"W	3794.82	279.219	9.71	8.06	-5.83
9301.00	79.610	169.480	7694.63	-1236.62	517.85	-3732.11	1721301.70	383318.41	39°32'53.6072"N	80°29'18.0302"W	3767.86	277.900	8.46	7.49	-4.06
9395.00	86.530	165.820	7705.97	-1143.39	426.77	-3712.14	1721321.66	383227.33	39°32'52.7092"N	80°29'17.7626"W	3736.60	276.558	8.31	7.36	-3.89
9490.00	86.840	160.400	7709.81	-1048.97	335.98	-3684.57	1721349.23	383136.54	39°32'51.8150"N	80°29'17.3979"W	3699.86	275.210	6.20	2.43	-5.71
9583.00	88.780	160.130	7711.74	-957.01	248.46	-3653.18	1721380.63	383049.02	39°32'50.9534"N	80°29'16.9848"W	3661.62	273.891	0.30	-0.06	-0.29
9677.00	88.990	160.260	7713.57	-864.07	160.04	-3621.33	1721412.47	382960.80	39°32'50.0830"N	80°29'16.5659"W	3624.87	272.530	0.26	0.22	0.14
9771.00	88.770	160.350	7715.41	-771.10	71.56	-3589.66	1721444.15	382872.12	39°32'49.2119"N	80°29'16.1492"W	3590.37	271.142	0.25	-0.23	0.10
9865.00	88.830	160.380	7717.38	-678.12	-16.96	-3558.08	1721475.72	382783.60	39°32'48.3405"N	80°29'15.7336"W	3558.12	269.727	0.07	0.06	0.03
9959.00	89.510	160.140	7718.74	-585.16	-105.42	-3526.34	1721507.47	382695.14	39°32'47.4696"N	80°29'15.3160"W	3527.91	268.288	0.77	0.72	-0.26
10054.00	89.540	160.330	7719.53	-491.21	-194.82	-3494.21	1721539.59	382605.74	39°32'46.5895"N	80°29'14.8934"W	3499.64	266.809	0.20	0.03	0.20
10148.00	89.480	159.130	7720.33	-398.38	-283.00	-3461.65	1721572.16	382517.56	39°32'45.7216"N	80°29'14.4653"W	3473.20	265.326	1.28	-0.06	-1.28
10242.00	89.290	153.850	7721.34	-306.55	-369.16	-3424.17	1721609.64	382431.40	39°32'44.8742"N	80°29'13.9748"W	3444.01	263.847	5.62	-0.20	-5.62
10337.00	89.320	153.870	7722.49	-214.75	-454.44	-3382.32	1721651.49	382346.12	39°32'44.0359"N	80°29'13.4286"W	3412.71	262.348	0.04	0.03	0.02
10431.00	89.380	151.430	7723.56	-124.44	-537.92	-3339.14	1721694.67	382262.64	39°32'43.2155"N	80°29'12.8657"W	3382.19	260.849	2.60	0.06	-2.60
10525.00	89.410	148.100	7724.55	-35.57	-619.11	-3291.81	1721741.99	382181.45	39°32'42.4182"N	80°29'12.2502"W	3349.53	259.348	3.54	0.03	-3.54
10620.00	89.440	146.910	7725.50	52.98	-699.24	-3240.78	1721783.03	382101.33	39°32'41.6318"N	80°29'11.5875"W	3315.35	257.824	1.25	0.03	-1.25
10713.00	89.320	142.000	7726.51	137.72	-774.88	-3186.73	1721847.07	382025.68	39°32'40.8901"N	80°29'10.8870"W	3279.59	256.333	5.28	-0.13	-5.28
10807.00	89.260	139.890	7727.68	220.86	-847.86	-3127.52	1721906.29	381952.70	39°32'40.1752"N	80°29'10.1209"W	3240.41	254.832	2.25	-0.06	-2.24
10901.00	89.260	139.260	7728.89	302.94	-919.42	-3066.57	1721967.24	381881.15	39°32'39.4746"N	80°29'9.3329"W	3201.43	253.310	0.67	0.00	-0.67
10995.00	89.010	140.280	7730.31	385.16	-991.17	-3005.86	1722027.94	381809.39	39°32'38.7721"N	80°29'8.5479"W	3165.06	251.750	1.12	-0.27	1.09
11089.00	88.950	139.360	7731.98	467.43	-1062.98	-2945.23	1722088.58	381737.69	39°32'38.0689"N	80°29'7.7839"W	3131.18	250.155	0.98	-0.06	-0.98
11183.00	88.390	139.200	7734.16	549.25	-1134.20	-2883.92	1722149.89	381666.36	39°32'37.3717"N	80°29'6.9713"W	3098.94	248.531	0.62	-0.60	-0.17
11276.00	88.790	139.250	7736.45	630.16	-1204.61	-2823.20	1722210.60	381595.96	39°32'36.6824"N	80°29'6.1864"W	3069.45	246.893	0.43	0.43	0.05
11370.00	89.010	139.430	7738.26	712.04	-1275.90	-2761.97	1722271.84	381524.66	39°32'35.9844"N	80°29'5.3948"W	3042.43	245.205	0.30	0.23	0.19
11464.00	88.920	139.520	7739.95	794.02	-1347.34	-2700.90	1722332.91	381453.22	39°32'35.2850"N	80°29'4.6053"W	3018.31	243.488	0.14	-0.10	0.10
11557.00	88.850	139.290	7741.76	875.08	-1417.94	-2640.39	1722393.41	381382.62	39°32'34.5937"N	80°29'3.8231"W	2997.04	241.763	0.26	-0.08	-0.25

RECEIVED
Oilfield Division
AUG 18 2013
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 7 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWP
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
11651.00	89.070	142.350	7743.47	958.12	-1490.79	-2581.02	1722452.78	381309.77	39°32'33.8802"N	80°29'3.0551"W	2980.63	239.989	3.26	0.23	3.26
11745.00	89.530	145.880	7744.62	1043.55	-1566.93	-2525.94	1722507.87	381233.63	39°32'33.1337"N	80°29'2.3413"W	2972.48	238.187	3.79	0.49	3.76
11839.00	89.620	147.850	7745.32	1130.78	-1645.64	-2474.56	1722559.25	381154.93	39°32'32.3613"N	80°29'1.6745"W	2971.80	236.375	2.10	0.10	2.10
11934.00	89.530	149.370	7746.02	1219.97	-1726.73	-2425.08	1722608.72	381073.83	39°32'31.5652"N	80°29'1.0316"W	2977.01	234.548	1.60	-0.09	1.60
12027.00	89.250	152.460	7747.01	1308.49	-1807.99	-2379.88	1722653.92	380992.58	39°32'30.7670"N	80°29'0.4433"W	2988.75	232.776	3.34	-0.30	3.32
12121.00	89.500	153.660	7748.04	1398.98	-1891.78	-2337.30	1722696.51	380908.78	39°32'29.9435"N	80°28'59.8880"W	3006.96	231.014	1.30	0.27	1.28
12215.00	89.530	154.030	7748.83	1489.82	-1976.15	-2295.86	1722737.54	380824.41	39°32'29.1141"N	80°28'59.3473"W	3029.22	229.280	0.39	0.03	0.39
12309.00	89.590	153.640	7749.56	1580.65	-2060.52	-2254.41	1722779.39	380740.05	39°32'28.2848"N	80°28'58.8065"W	3054.20	227.573	0.42	0.06	-0.41
12403.00	89.650	154.000	7750.18	1671.48	-2144.87	-2212.94	1722820.86	380655.69	39°32'27.4556"N	80°28'58.2654"W	3081.82	225.895	0.39	0.06	0.38
12591.00	89.560	155.770	7751.47	1854.00	-2315.09	-2133.15	1722900.65	380485.48	39°32'25.7819"N	80°28'57.2231"W	3148.01	222.658	0.94	-0.05	0.94
12685.00	89.680	156.070	7752.10	1945.66	-2400.90	-2094.80	1722939.00	380399.66	39°32'24.9379"N	80°28'56.7216"W	3186.30	221.105	0.34	0.13	0.32
12779.00	89.400	155.810	7752.85	2037.32	-2486.73	-2056.48	1722977.32	380313.83	39°32'24.0938"N	80°28'56.2205"W	3226.91	219.590	0.41	-0.30	-0.28
12873.00	89.620	156.250	7753.66	2129.01	-2572.63	-2018.30	1723015.50	380227.94	39°32'23.2490"N	80°28'55.7212"W	3269.86	218.115	0.53	0.23	0.48
12967.00	89.680	156.140	7754.23	2220.77	-2658.63	-1980.37	1723053.44	380141.93	39°32'22.4031"N	80°28'55.2250"W	3315.15	216.682	0.14	0.06	-0.13
13060.00	89.590	155.920	7754.82	2311.49	-2743.61	-1942.59	1723091.22	380056.96	39°32'21.5673"N	80°28'54.7309"W	3361.70	215.300	0.26	-0.10	-0.24
13154.00	89.180	155.520	7755.83	2403.06	-2829.29	-1903.94	1723129.87	379971.28	39°32'20.7247"N	80°28'54.2257"W	3410.26	213.938	0.61	-0.44	-0.43
13248.00	89.620	156.130	7756.82	2494.68	-2915.04	-1865.44	1723168.36	379885.52	39°32'19.8813"N	80°28'53.7224"W	3460.83	212.617	0.80	0.47	0.65
13342.00	89.550	156.210	7757.50	2586.43	-3001.03	-1827.47	1723206.34	379799.54	39°32'19.0356"N	80°28'53.2257"W	3513.66	211.339	0.11	-0.07	0.09
13436.00	89.400	155.650	7758.36	2678.08	-3086.85	-1789.13	1723244.67	379713.72	39°32'18.1916"N	80°28'52.7244"W	3567.86	210.096	0.62	-0.16	-0.60
13530.00	89.060	155.760	7759.62	2769.65	-3172.52	-1750.46	1723283.34	379628.05	39°32'17.3491"N	80°28'52.2188"W	3623.39	208.888	0.38	-0.36	0.12
13624.00	89.060	156.060	7761.16	2861.29	-3258.32	-1712.10	1723321.71	379542.25	39°32'16.5052"N	80°28'51.7172"W	3680.75	207.720	0.32	0.00	0.32
13718.00	89.120	153.800	7762.66	2952.56	-3343.44	-1672.27	1723361.53	379457.12	39°32'15.6682"N	80°28'51.1971"W	3738.33	206.573	2.40	0.06	-2.40
13812.00	89.240	154.410	7764.00	3043.50	-3428.00	-1631.23	1723402.58	379372.57	39°32'14.8369"N	80°28'50.6614"W	3796.32	205.448	0.66	0.13	0.65
13907.00	89.980	154.250	7764.65	3135.51	-3513.62	-1590.07	1723443.73	379286.95	39°32'13.9951"N	80°28'50.1242"W	3856.66	204.349	0.80	0.78	-0.17
14000.00	89.920	154.520	7764.73	3225.60	-3597.48	-1549.87	1723483.93	379203.09	39°32'13.1707"N	80°28'49.5994"W	3917.14	203.307	0.30	-0.06	0.29
14094.00	89.550	154.210	7765.17	3316.66	-3682.23	-1509.20	1723524.60	379118.34	39°32'12.3375"N	80°28'49.0685"W	3979.51	202.287	0.51	-0.39	-0.33
14188.00	89.640	154.040	7765.83	3407.61	-3766.80	-1468.18	1723565.62	379033.77	39°32'11.5060"N	80°28'48.5332"W	4042.81	201.294	0.20	0.10	-0.18
14281.00	89.610	154.000	7766.44	3497.56	-3850.40	-1427.44	1723606.36	378950.17	39°32'10.6842"N	80°28'48.0015"W	4106.48	200.341	0.05	-0.03	-0.04
14375.00	89.550	153.950	7767.13	3588.45	-3934.87	-1386.20	1723647.60	378865.70	39°32'9.8538"N	80°28'47.4634"W	4171.90	199.407	0.08	-0.06	-0.05
14469.00	89.640	154.020	7767.79	3679.35	-4019.34	-1344.97	1723688.83	378781.23	39°32'9.0234"N	80°28'46.9254"W	4238.40	198.502	0.12	0.10	0.07

RECEIVED
Office of Drilling Data
Aug 18 2022
My Departmental
Information System



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 8 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
14563.00	89.460	154.130	7768.53	3770.29	-4103.88	-1303.88	1723729.93	378696.69	39°32'8.1923"N	80°28'46.3892"W	4306.03	197.626	0.22	-0.19	0.12
14656.00	89.520	154.160	7769.36	3860.28	-4187.56	-1263.32	1723770.48	378613.00	39°32'7.3696"N	80°28'45.8599"W	4373.98	196.788	0.07	0.06	0.03
14750.00	89.610	153.990	7770.07	3951.22	-4272.10	-1222.23	1723811.58	378528.47	39°32'6.5385"N	80°28'45.3236"W	4443.50	195.966	0.20	0.10	-0.18
14844.00	89.610	154.090	7770.71	4042.14	-4356.62	-1181.08	1723852.72	378443.95	39°32'5.7077"N	80°28'44.7867"W	4513.87	195.168	0.11	0.00	0.11
14938.00	89.640	154.310	7771.33	4133.12	-4441.24	-1140.17	1723893.63	378359.32	39°32'4.8757"N	80°28'44.2528"W	4585.26	194.398	0.24	0.03	0.23
15032.00	89.640	153.740	7771.92	4224.04	-4525.75	-1099.00	1723934.80	378274.82	39°32'4.0449"N	80°28'43.7156"W	4657.27	193.649	0.61	0.00	-0.61
15126.00	89.640	154.020	7772.51	4314.89	-4610.15	-1057.62	1723976.19	378190.42	39°32'3.2152"N	80°28'43.1757"W	4729.90	192.921	0.30	0.00	0.30
15219.00	89.330	153.980	7773.34	4404.83	-4693.73	-1016.85	1724016.95	378106.84	39°32'2.3935"N	80°28'42.6438"W	4802.61	192.224	0.34	-0.33	-0.04
15313.00	89.060	154.250	7774.66	4495.77	-4778.29	-975.82	1724057.99	378022.28	39°32'1.5622"N	80°28'42.1083"W	4876.91	191.542	0.41	-0.29	0.29
15409.00	89.370	153.860	7775.98	4588.63	-4864.81	-933.82	1724099.98	377935.96	39°32'0.7137"N	80°28'41.5603"W	4953.42	190.865	0.52	0.32	-0.41
15503.00	89.400	154.050	7776.99	4679.51	-4949.06	-892.55	1724141.25	377851.51	39°31'59.8835"N	80°28'41.0218"W	5028.90	190.223	0.20	0.03	0.20
15597.00	89.460	154.220	7777.92	4770.47	-5033.64	-851.54	1724182.26	377766.93	39°31'59.0520"N	80°28'40.4867"W	5105.16	189.602	0.19	0.06	0.18
15691.00	89.360	154.130	7778.89	4861.44	-5118.24	-810.60	1724223.20	377682.33	39°31'58.2202"N	80°28'39.9524"W	5182.03	188.999	0.14	-0.11	-0.10
15785.00	90.350	155.620	7779.13	4952.70	-5203.35	-770.69	1724263.12	377597.23	39°31'57.3834"N	80°28'39.4312"W	5260.11	188.425	1.90	1.05	1.59
15873.00	89.240	156.870	7779.15	5136.24	-5376.41	-694.96	1724338.84	377425.18	39°31'55.6909"N	80°28'38.4408"W	5420.15	187.387	0.76	-0.38	0.86
16067.00	89.580	156.680	7779.79	5228.20	-5461.79	-657.89	1724375.91	377338.78	39°31'54.8412"N	80°28'37.9557"W	5501.27	186.868	0.21	-0.06	-0.20
16161.00	89.980	157.270	7780.15	5320.22	-5548.30	-621.12	1724412.68	377252.27	39°31'53.9901"N	80°28'37.4745"W	5582.96	186.388	0.76	0.43	0.63
16255.00	89.790	157.050	7780.34	5412.31	-5634.93	-584.64	1724449.16	377165.64	39°31'53.1379"N	80°28'36.9968"W	5665.18	185.923	0.31	-0.20	-0.23
16349.00	89.520	156.400	7780.90	5504.25	-5721.28	-547.49	1724486.31	377079.29	39°31'52.2884"N	80°28'36.5108"W	5747.42	185.466	0.75	-0.29	-0.69
16443.00	89.610	157.750	7781.62	5596.30	-5807.85	-510.88	1724522.82	376992.72	39°31'51.4368"N	80°28'36.0315"W	5830.28	185.027	1.44	0.10	1.44
16538.00	89.520	156.090	7782.34	5689.28	-5895.24	-473.64	1724560.16	376905.33	39°31'50.5771"N	80°28'35.5441"W	5914.24	184.593	1.75	-0.09	-1.75
16632.00	89.700	156.490	7782.98	5781.07	-5981.31	-435.84	1724597.96	376819.27	39°31'49.7305"N	80°28'35.0498"W	5997.16	184.168	0.47	0.19	0.43
16726.00	89.580	156.480	7783.57	5872.93	-6067.50	-398.34	1724635.46	376733.07	39°31'48.8827"N	80°28'34.5592"W	6080.56	183.756	0.13	-0.13	-0.01
16819.00	89.700	156.250	7784.15	5963.76	-6152.70	-361.06	1724672.74	376647.88	39°31'48.0447"N	80°28'34.0716"W	6163.28	183.358	0.28	0.13	-0.25
16914.00	89.670	156.240	7784.67	6056.51	-6239.85	-322.79	1724711.01	376560.93	39°31'47.1894"N	80°28'33.5711"W	6247.99	182.961	0.03	-0.03	-0.01
17008.00	89.480	156.250	7785.37	6148.28	-6325.68	-284.92	1724748.88	376474.89	39°31'46.3432"N	80°28'33.0760"W	6332.09	182.579	0.20	-0.20	0.01
17103.00	89.700	157.500	7786.05	6241.25	-6413.04	-247.62	1724786.19	376387.53	39°31'45.4838"N	80°28'32.5877"W	6417.82	182.211	1.34	0.23	1.32
17197.00	89.730	156.500	7786.52	6333.28	-6499.57	-210.89	1724822.91	376301.01	39°31'44.6326"N	80°28'32.1070"W	6502.99	181.858	1.06	0.03	-1.06
17291.00	89.580	154.220	7787.08	6424.72	-6585.00	-171.70	1724862.10	376215.57	39°31'43.7924"N	80°28'31.5951"W	6587.24	181.494	2.43	-0.16	-2.43
17385.00	89.330	154.370	7787.98	6515.74	-6669.69	-130.93	1724902.87	376130.88	39°31'42.9597"N	80°28'31.0630"W	6670.98	181.125	0.31	-0.27	0.18

RECEIVED
Oilfield Division
Aug 18 2025
WV Division
Elliott/Johnson Collection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 9 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
17479.00	89.640	154.270	7788.82	6606.78	-6754.41	-90.20	1724943.60	376046.17	39°31'42.1269"N	80°28'30.5315"W	6755.01	180.765	0.35	0.33	-0.11
17573.00	89.420	153.960	7789.59	6697.73	-6838.97	-49.16	1724984.64	375961.60	39°31'41.2955"N	80°28'29.9961"W	6839.15	180.412	0.40	-0.23	-0.33
17667.00	89.910	155.610	7790.14	6788.95	-6924.01	-8.12	1725024.68	375876.56	39°31'40.4593"N	80°28'29.4733"W	6924.02	180.075	1.83	0.52	1.76
17762.00	89.700	154.750	7790.47	6881.30	-7010.23	30.76	1725064.56	375790.34	39°31'39.6114"N	80°28'28.9524"W	7010.30	179.749	0.93	-0.22	-0.91
17856.00	89.790	154.320	7790.89	6972.43	-7095.10	71.17	1725104.97	375705.47	39°31'38.7770"N	80°28'28.4249"W	7095.46	179.425	0.47	0.10	-0.46
17950.00	89.820	153.820	7791.21	7063.36	-7179.64	112.28	1725146.08	375620.94	39°31'37.9459"N	80°28'27.8886"W	7180.52	179.104	0.53	0.03	-0.53
18044.00	89.910	154.390	7791.43	7154.31	-7264.20	153.33	1725187.13	375536.38	39°31'37.1145"N	80°28'27.3530"W	7265.82	178.791	0.61	0.10	0.61
18138.00	89.850	154.230	7791.62	7245.35	-7348.91	194.08	1725227.88	375451.67	39°31'36.2817"N	80°28'26.8213"W	7351.47	178.487	0.18	-0.06	-0.17
18232.00	89.910	154.070	7791.82	7336.31	-7433.50	235.06	1725268.86	375367.07	39°31'35.4500"N	80°28'26.2865"W	7437.22	178.189	0.18	0.06	-0.17
18326.00	89.820	153.980	7792.04	7427.23	-7518.01	276.23	1725310.03	375282.57	39°31'34.6193"N	80°28'25.7495"W	7523.08	177.896	0.14	-0.10	-0.10
18420.00	89.880	154.250	7792.29	7518.18	-7602.57	317.27	1725351.07	375198.00	39°31'33.7878"N	80°28'25.2141"W	7609.19	177.610	0.29	0.06	0.29
18514.00	89.760	154.360	7792.58	7609.22	-7687.28	358.03	1725391.83	375113.30	39°31'32.9551"N	80°28'24.6822"W	7695.61	177.333	0.17	-0.13	0.12
18608.00	89.880	154.360	7792.88	7700.27	-7772.02	398.70	1725432.50	375028.55	39°31'32.1218"N	80°28'24.1514"W	7782.24	177.063	0.13	0.13	0.00
18702.00	89.910	154.330	7793.05	7791.32	-7856.75	439.40	1725473.20	374943.82	39°31'31.2888"N	80°28'23.6204"W	7869.03	176.799	0.05	0.03	-0.03
18796.00	89.790	154.220	7793.30	7882.34	-7941.44	480.20	1725514.00	374859.14	39°31'30.4562"N	80°28'23.0860"W	7955.94	176.540	0.17	-0.13	-0.12
18890.00	89.910	154.380	7793.54	7973.37	-8026.14	520.96	1725554.76	374774.44	39°31'29.6234"N	80°28'22.5561"W	8043.03	176.286	0.21	0.13	0.17
18985.00	89.760	154.250	7793.82	8065.37	-8111.75	562.14	1725595.94	374688.82	39°31'28.7817"N	80°28'22.0188"W	8131.21	176.036	0.21	-0.16	-0.14
19078.00	89.880	154.440	7794.11	8155.45	-8195.58	602.40	1725636.20	374604.99	39°31'27.9575"N	80°28'21.4934"W	8217.69	175.796	0.24	0.13	0.20
19173.00	89.790	154.530	7794.38	8247.53	-8281.32	643.32	1725677.12	374519.26	39°31'27.1145"N	80°28'20.9594"W	8306.27	175.558	0.13	-0.09	0.09
19266.00	89.730	154.290	7794.77	8337.63	-8365.19	683.49	1725717.29	374435.38	39°31'26.2898"N	80°28'20.4352"W	8393.07	175.329	0.27	-0.06	-0.26
19360.00	89.850	154.500	7795.12	8428.70	-8449.96	724.12	1725757.91	374350.61	39°31'25.4564"N	80°28'19.9051"W	8480.93	175.102	0.26	0.13	0.22
19454.00	89.850	154.350	7795.36	8519.78	-8534.75	764.69	1725798.49	374265.83	39°31'24.6227"N	80°28'19.3755"W	8568.94	174.880	0.16	0.00	-0.16
19548.00	89.790	154.450	7795.66	8610.85	-8619.52	805.31	1725839.11	374181.05	39°31'23.7802"N	80°28'18.8455"W	8657.06	174.662	0.12	-0.06	0.11
19642.00	89.880	154.450	7795.93	8701.95	-8704.33	845.85	1725879.65	374096.25	39°31'22.9554"N	80°28'18.3165"W	8745.33	174.450	0.10	0.10	0.00
19736.00	89.790	154.350	7796.20	8793.02	-8789.10	886.47	1725920.27	374011.47	39°31'22.1218"N	80°28'17.7865"W	8833.69	174.241	0.14	-0.10	-0.11
19830.00	89.820	154.360	7796.52	8884.07	-8873.84	927.15	1725960.95	373926.73	39°31'21.2888"N	80°28'17.2556"W	8922.15	174.035	0.03	0.03	0.01
19925.00	89.780	154.440	7796.85	8976.11	-8959.52	968.20	1726002.00	373841.06	39°31'20.4464"N	80°28'16.7200"W	9011.68	173.832	0.09	-0.04	0.08
20019.00	89.750	154.500	7797.24	9067.21	-9044.34	1008.71	1726042.51	373756.24	39°31'19.6124"N	80°28'16.1913"W	9100.41	173.636	0.07	-0.03	0.06
20113.00	89.880	154.250	7797.54	9158.27	-9129.09	1049.36	1726083.16	373671.49	39°31'18.7791"N	80°28'15.6609"W	9189.20	173.443	0.30	0.14	-0.27
20208.00	89.780	153.980	7797.82	9250.19	-9214.56	1090.84	1726124.63	373586.02	39°31'17.9368"N	80°28'15.1199"W	9278.90	173.249	0.30	-0.11	-0.28

Relinquished
On 08/13/2013
Aug 18 2013
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 10 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWP
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
20301.00	89.780	154.600	7798.18	9340.25	-9298.35	1131.18	1726164.98	373502.23	39°31'17.1150"N	80°28'14.5935"W	9366.91	173.064	0.67	0.00	0.67
20394.00	89.780	154.180	7798.54	9430.34	-9382.21	1171.38	1726205.18	373418.36	39°31'16.2905"N	80°28'14.0690"W	9455.06	172.883	0.45	0.00	-0.45
20489.00	89.910	154.430	7798.79	9522.34	-9467.82	1212.57	1726246.37	373332.76	39°31'15.4488"N	80°28'13.5316"W	9545.15	172.702	0.30	0.14	0.26
20583.00	89.750	154.550	7799.07	9613.45	-9552.66	1253.05	1726286.85	373247.92	39°31'14.6146"N	80°28'13.0033"W	9634.49	172.527	0.21	-0.17	0.13
20678.00	90.000	154.610	7799.28	9705.56	-9636.46	1293.63	1726327.63	373162.12	39°31'13.7710"N	80°28'12.4711"W	9724.91	172.355	0.27	0.26	0.06
20772.00	89.720	154.300	7799.51	9796.66	-9723.27	1334.36	1726368.16	373077.31	39°31'12.9371"N	80°28'11.9422"W	9814.40	172.186	0.44	-0.30	-0.33
20867.00	89.810	154.280	7799.90	9888.65	-9808.86	1375.58	1726409.37	372991.72	39°31'12.0955"N	80°28'11.4045"W	9904.85	172.017	0.10	0.09	-0.02
20962.00	89.780	154.430	7800.24	9980.67	-9894.50	1416.69	1726450.49	372906.08	39°31'11.2535"N	80°28'10.8681"W	9995.41	171.852	0.16	-0.03	0.16
21056.00	89.870	154.480	7800.53	10071.77	-9979.32	1457.23	1726491.02	372821.26	39°31'10.4196"N	80°28'10.3391"W	10085.15	171.692	0.11	0.10	0.05
21151.00	89.780	154.320	7800.82	10163.81	-10064.99	1498.27	1726532.07	372735.59	39°31'9.5773"N	80°28'9.8036"W	10175.89	171.533	0.19	-0.09	-0.17
21245.00	89.870	154.570	7801.10	10254.89	-10149.79	1538.82	1726572.62	372650.79	39°31'8.7434"N	80°28'9.2745"W	10265.78	171.379	0.28	0.10	0.27
21339.00	89.780	154.680	7801.39	10346.06	-10234.72	1579.11	1726612.90	372565.86	39°31'7.9083"N	80°28'8.7488"W	10355.83	171.229	0.15	-0.10	0.12
21434.00	89.040	156.320	7802.37	10438.52	-10321.16	1618.50	1726652.30	372479.42	39°31'7.0582"N	80°28'8.2342"W	10447.29	171.088	1.89	-0.78	1.73
21528.00	89.500	156.620	7803.57	10530.37	-10407.34	1656.02	1726689.82	372393.24	39°31'6.2105"N	80°28'7.7435"W	10538.27	170.959	0.58	0.49	0.32
21624.00	89.440	158.250	7804.45	10624.16	-10495.33	1694.40	1726728.20	372305.25	39°31'5.3450"N	80°28'7.2417"W	10631.22	170.829	0.39	-0.06	-0.39
21718.00	89.660	156.250	7805.19	10715.93	-10581.36	1732.26	1726768.05	372219.22	39°31'4.4987"N	80°28'6.7468"W	10722.22	170.703	0.23	0.23	0.00
21813.00	89.530	156.620	7805.86	10808.74	-10668.44	1770.24	1726804.03	372132.14	39°31'3.6421"N	80°28'6.2502"W	10814.31	170.579	0.41	-0.14	0.39
21908.00	89.440	156.750	7806.72	10901.65	-10755.68	1807.84	1726841.63	372044.90	39°31'2.7839"N	80°28'5.7585"W	10906.55	170.459	0.17	-0.09	0.14
22002.00	89.380	156.180	7807.69	10993.49	-10841.86	1845.37	1726879.16	371958.73	39°31'1.9362"N	80°28'5.2677"W	10997.78	170.340	0.61	-0.06	-0.61
22097.00	89.500	154.480	7808.61	11085.89	-10928.18	1885.02	1726918.81	371872.41	39°31'1.0873"N	80°28'4.7499"W	11089.56	170.213	1.79	0.13	-1.79
22192.00	89.380	154.510	7809.54	11177.97	-11013.91	1925.92	1726959.72	371786.67	39°31'0.2443"N	80°28'4.2162"W	11181.03	170.081	0.13	-0.13	0.03
22286.00	89.440	154.250	7810.51	11269.03	-11098.67	1966.58	1727000.36	371701.91	39°30'59.4110"N	80°28'3.6860"W	11271.55	169.952	0.28	0.06	-0.28
22381.00	89.500	154.220	7811.39	11360.99	-11184.22	2007.86	1727041.65	371616.36	39°30'58.5698"N	80°28'3.1473"W	11363.02	169.822	0.07	0.06	-0.03
22475.00	89.560	153.490	7812.16	11451.84	-11268.60	2049.28	1727083.07	371531.98	39°30'57.7403"N	80°28'2.6072"W	11453.42	169.693	0.78	0.06	-0.78
22570.00	89.620	153.260	7812.84	11543.44	-11353.52	2091.85	1727125.65	371447.06	39°30'56.9055"N	80°28'2.0524"W	11544.62	169.561	0.25	0.06	-0.24
22664.00	89.620	154.150	7813.46	11634.22	-11437.79	2133.49	1727167.29	371362.79	39°30'56.0771"N	80°28'1.5095"W	11635.07	169.434	0.95	0.00	0.95
22758.00	89.470	155.680	7814.21	11725.49	-11522.92	2173.34	1727207.14	371277.66	39°30'55.2399"N	80°28'0.9893"W	11726.09	169.319	1.64	-0.16	1.63
22853.00	89.720	156.210	7814.88	11818.13	-11609.67	2212.06	1727245.86	371190.91	39°30'54.3867"N	80°28'0.4833"W	11818.53	169.212	0.62	0.26	0.56
22948.00	89.780	156.450	7815.30	11910.91	-11696.68	2250.20	1727284.00	371103.91	39°30'53.5308"N	80°27'59.9847"W	11911.16	169.111	0.26	0.06	0.25
23043.00	89.900	156.760	7815.55	12003.78	-11783.87	2287.92	1727321.72	371016.72	39°30'52.6731"N	80°27'59.4915"W	12003.92	169.012	0.35	0.13	0.33

RECEIVED
Office of Oil and Gas
August 18, 2014
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'
Page 11 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

WELLPATH DATA (274 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
23137.00	89.720	156.670	7815.87	12095.72	-11870.21	2325.08	1727358.88	370930.37	39°30'51.8237"N	80°27'59.0055"W	12095.78	168.917	0.21	-0.19	-0.10
23232.00	89.680	156.480	7816.37	12188.59	-11957.38	2362.85	1727396.64	370843.21	39°30'50.9662"N	80°27'58.5117"W	12188.60	168.822	0.20	-0.04	-0.20
23288.00	89.680	156.400	7816.68	12243.30	-12008.71	2385.23	1727419.03	370791.88	39°30'50.4613"N	80°27'58.2190"W	12243.30	168.766	0.14	0.00	-0.14
23313.00†	89.680	156.400	7816.82	12267.72	-12031.62	2395.24	1727429.03	370768.97	39°30'50.2359"N	80°27'58.0882"W	12267.72	168.741	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Vanderbilt 2H AWB Ref Wellpath: Vanderbilt 2H AWP Proj: 23313'

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]
17.5in Open Hole	28.00	1260.00	1232.00	28.00	1259.98	0.00	0.00	1.59	-6.32
13.375in Casing Surface	28.00	1260.00	1232.00	28.00	1259.98	0.00	0.00	1.59	-6.32
12.25in Open Hole	1260.00	2701.00	1441.00	1259.98	2682.92	1.59	-6.32	61.81	-208.83
9.625in Casing Intermediate	28.00	2701.00	2673.00	28.00	2682.92	0.00	0.00	61.81	-208.83
8.75in Open Hole	2701.00	7815.00	5114.00	2682.92	6731.86	61.81	-208.83	978.43	-3111.07
8.5in Open Hole	7815.00	23313.00	15498.00	6731.86	7816.82	978.43	-3111.07	-12031.62	2395.24
5.5in Casing Production	28.00	23313.00	23285.00	28.00	7816.82	0.00	0.00	-12031.62	2395.24

RECEIVED
Office of Oil and Gas
AUG 18 2025
WV Department of
Environmental Protection



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 12 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Vanderbilt 2H LP Rev-2	7713.00	372.46	-3694.08	1721339.73	383173.02	39°32'52.1744"N	80°29'17.5244"W	point
Vanderbilt 2H BHL Rev-2	7955.04	-12032.38	2396.42	1727430.22	370768.20	39°30'50.2285"N	80°27'58.0730"W	point

WELLPATH COMPOSITION - Ref Wellbore: Vanderbilt 2H AWB Ref Wellpath: Vanderbilt 2H AWP Proj: 23313'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1138.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro <17-1/2"> (100'-1123')	Vanderbilt 2H AWB	12/26/2024
1138.00	2649.00	OWSG MWD rev2 + HRGM	02 SDI MWD <12-1/4"> (1123')(1277'-2634')	Vanderbilt 2H AWB	12/26/2024
2649.00	7735.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4"> (2634')(2733'-7720')	Vanderbilt 2H AWB	12/26/2024
7735.00	23313.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (7735')(7789'-23288')	Vanderbilt 2H AWB	1/26/2025

RECEIVED
Office of Oil and Gas
WV Department of
Environmental Protection
AUG 18 2025



Actual Wellpath Report

Vanderbilt 2H AWP Proj: 23313'

Page 13 of 13



REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 2H
Field	Marion	API	47-049-02534-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 2H AWB
Slot	Slot #02		

COMMENTS

Wellpath general comments

API: 47-049-02534-0000

BH Job #: 112536648

Rig: Patterson 294

Duration: 1/29/2025-1/31/2025

Gyrodata Cont. Gyro <17-1/2"> (100'-1123')

SDI MWD <12-1/4"> (1123')(1277'-2634')

SDI MWD <8-3/4"> (2634')(2733'-7720')

BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (7735')(7789'-23288')

Projected MD at TD: 23313'

RECEIVED
Office of Oil and Gas
AUG 18 2025
WV Department of
Environmental Protection



EQT PRODUCTION COMPANY

Location: Marion County, WV
Field: Marion
Facility: Vanderbilt Pad

Slot: Slot #02
Well: Vanderbilt 2H
Wellbore: Vanderbilt 2H AWB

