



Actual Wellpath Report

Vanderbilt 4H AWP Proj: 22356'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

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	1/28/2025 at 2:24:20 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	-29.15	-6.71	1725037.15	382815.14	39°32'49.0367"N	80°28'30.2753"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 #04)	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	164.15°

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WELLPATH DATA (256 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	242.680	0.00	0.00	0.00	0.00	1725037.15	382815.14	39°32'49.0367"N	80°28'30.2753"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	242.680	28.00	0.00	0.00	0.00	1725037.15	382815.14	39°32'49.0367"N	80°28'30.2753"W	0.00	0.000	0.00	0.00	0.00
115.00	0.230	242.680	115.00	0.03	-0.08	-0.16	1725036.99	382815.06	39°32'49.0359"N	80°28'30.2772"W	0.17	242.680	0.26	0.26	0.00
215.00	0.220	243.810	215.00	0.11	-0.26	-0.51	1725036.64	382814.88	39°32'49.0341"N	80°28'30.2817"W	0.57	243.062	0.01	-0.01	1.13
315.00	0.180	262.250	315.00	0.12	-0.36	-0.83	1725036.32	382814.78	39°32'49.0331"N	80°28'30.2858"W	0.91	246.476	0.08	-0.04	18.44
415.00	0.220	267.490	415.00	0.05	-0.39	-1.18	1725035.97	382814.75	39°32'49.0327"N	80°28'30.2903"W	1.24	251.618	0.04	0.04	5.24
515.00	0.170	264.120	515.00	-0.01	-0.42	-1.52	1725035.63	382814.72	39°32'49.0325"N	80°28'30.2946"W	1.58	254.695	0.05	-0.05	-3.37
615.00	0.090	23.610	615.00	-0.10	-0.36	-1.64	1725035.51	382814.78	39°32'49.0330"N	80°28'30.2961"W	1.68	257.616	0.23	-0.08	119.49
715.00	0.100	344.890	715.00	-0.25	-0.20	-1.63	1725035.52	382814.94	39°32'49.0346"N	80°28'30.2960"W	1.64	262.888	0.06	0.01	-38.72
815.00	0.170	304.470	815.00	-0.45	-0.03	-1.77	1725035.38	382815.11	39°32'49.0362"N	80°28'30.2978"W	1.77	268.872	0.11	0.07	-40.42
915.00	0.170	296.610	915.00	-0.66	0.12	-2.03	1725035.12	382815.26	39°32'49.0377"N	80°28'30.3012"W	2.03	273.260	0.02	0.00	-7.86
1015.00	0.190	308.000	1015.00	-0.90	0.28	-2.29	1725034.86	382815.42	39°32'49.0393"N	80°28'30.3045"W	2.31	277.067	0.04	0.02	11.39
1115.00	0.180	312.420	1115.00	-1.17	0.49	-2.54	1725034.61	382815.63	39°32'49.0413"N	80°28'30.3077"W	2.59	280.973	0.02	-0.01	4.42
1215.00	0.290	289.840	1214.99	-1.45	0.68	-2.89	1725034.26	382815.82	39°32'49.0432"N	80°28'30.3123"W	2.97	283.306	0.14	0.11	-22.58
1315.00	0.290	288.900	1314.99	-1.74	0.85	-3.37	1725033.78	382815.99	39°32'49.0448"N	80°28'30.3184"W	3.48	284.188	0.00	0.00	-0.94
1415.00	0.340	281.400	1414.99	-2.02	0.99	-3.90	1725033.25	382816.13	39°32'49.0461"N	80°28'30.3252"W	4.02	284.278	0.06	0.05	-7.50
1515.00	0.460	282.970	1514.99	-2.35	1.14	-4.58	1725032.57	382816.28	39°32'49.0475"N	80°28'30.3339"W	4.72	283.986	0.12	0.12	1.57
1615.00	0.490	282.680	1614.99	-2.75	1.33	-5.39	1725031.76	382816.47	39°32'49.0493"N	80°28'30.3442"W	5.55	283.812	0.03	0.03	-0.29
1715.00	0.480	281.500	1714.98	-3.14	1.50	-6.22	1725030.93	382816.64	39°32'49.0509"N	80°28'30.3548"W	6.40	283.585	0.01	-0.01	-1.18
1815.00	0.520	281.260	1814.98	-3.54	1.67	-7.07	1725030.08	382816.81	39°32'49.0525"N	80°28'30.3658"W	7.27	283.320	0.04	0.04	-0.24
1915.00	0.560	281.950	1914.97	-3.98	1.86	-8.00	1725029.15	382817.00	39°32'49.0543"N	80°28'30.3776"W	8.21	283.124	0.04	0.04	0.69
2015.00	0.600	281.500	2014.97	-4.45	2.07	-8.99	1725028.16	382817.21	39°32'49.0562"N	80°28'30.3903"W	9.22	282.970	0.04	0.04	-0.45
2115.00	0.580	280.650	2114.96	-4.91	2.27	-10.00	1725027.15	382817.41	39°32'49.0581"N	80°28'30.4032"W	10.25	282.780	0.02	-0.02	-0.85
2215.00	0.600	281.500	2214.96	-5.38	2.47	-11.01	1725026.14	382817.61	39°32'49.0599"N	80°28'30.4161"W	11.28	282.625	0.02	0.02	0.85
2315.00	0.580	283.860	2314.95	-5.87	2.69	-12.01	1725025.14	382817.83	39°32'49.0620"N	80°28'30.4290"W	12.31	282.628	0.03	-0.02	2.36
2415.00	0.480	291.140	2414.95	-6.37	2.96	-12.89	1725024.26	382818.10	39°32'49.0646"N	80°28'30.4403"W	13.23	282.944	0.12	-0.10	7.28
2515.00	0.460	300.900	2514.95	-6.92	3.32	-13.63	1725023.52	382818.46	39°32'49.0681"N	80°28'30.4497"W	14.03	283.693	0.08	-0.02	9.76
2615.00	0.300	292.020	2614.94	-7.37	3.63	-14.22	1725022.93	382818.77	39°32'49.0710"N	80°28'30.4572"W	14.67	284.305	0.17	-0.16	-8.88
2687.00	0.350	287.970	2686.94	-7.61	3.76	-14.60	1725022.55	382818.90	39°32'49.0724"N	80°28'30.4622"W	15.08	284.455	0.08	0.07	-5.62
2755.00	0.280	316.450	2754.94	-7.87	3.95	-14.91	1725022.24	382819.09	39°32'49.0742"N	80°28'30.4662"W	15.43	284.829	0.25	-0.10	-41.88

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Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWP
Slot	Slot #04		

WELLPATH DATA (256 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]
2798.00	0.320	304.320	2797.94	-8.06	4.09	-15.08	1725022.07	382819.23	39°32'49.0756"N	80°28'30.4684"W	15.63	285.178	0.17	0.09	-28.21
2840.00	1.120	284.120	2839.94	-8.35	4.26	-15.58	1725021.57	382819.40	39°32'49.0772"N	80°28'30.4747"W	16.15	285.287	1.97	1.90	-48.10
2882.00	2.490	287.720	2881.91	-9.06	4.64	-16.85	1725020.30	382819.78	39°32'49.0807"N	80°28'30.4910"W	17.47	285.387	3.27	3.26	-8.57
2925.00	3.780	290.790	2924.85	-10.42	5.42	-19.06	1725018.09	382820.56	39°32'49.0883"N	80°28'30.5193"W	19.82	285.883	3.02	3.00	7.14
2969.00	5.270	295.220	2968.71	-12.62	6.80	-22.25	1725014.90	382821.94	39°32'49.1016"N	80°28'30.5802"W	23.26	286.996	3.48	3.39	-10.07
3011.00	6.730	297.230	3010.48	-15.57	8.75	-26.18	1725010.97	382823.89	39°32'49.1204"N	80°28'30.6107"W	27.60	288.476	3.51	3.48	-4.79
3054.00	8.450	297.730	3053.10	-19.46	11.37	-31.22	1725005.93	382826.51	39°32'49.1458"N	80°28'30.6753"W	33.22	290.014	4.00	4.00	-1.16
3097.00	10.730	297.100	3095.50	-24.37	14.66	-37.58	1724999.57	382829.80	39°32'49.1776"N	80°28'30.7570"W	40.34	291.318	5.31	5.30	-1.47
3141.00	13.010	297.200	3138.55	-30.54	18.80	-45.63	1724991.52	382833.93	39°32'49.2176"N	80°28'30.8603"W	49.35	292.387	5.18	5.18	0.23
3184.00	14.690	296.700	3180.30	-37.53	23.46	-54.81	1724982.34	382838.60	39°32'49.2627"N	80°28'30.9781"W	59.62	293.171	3.92	3.91	-1.16
3227.00	15.650	296.210	3221.80	-45.11	28.47	-64.88	1724972.27	382843.61	39°32'49.3111"N	80°28'31.1074"W	70.85	293.691	2.25	2.23	-1.14
3269.00	16.700	296.640	3262.14	-52.98	33.68	-75.36	1724961.79	382848.82	39°32'49.3615"N	80°28'31.2419"W	82.54	294.080	2.52	2.50	1.02
3311.00	18.120	299.040	3302.22	-61.66	39.55	-86.46	1724950.69	382854.69	39°32'49.4184"N	80°28'31.3845"W	95.08	294.582	3.79	3.38	5.71
3353.00	19.900	301.260	3341.82	-71.51	46.43	-98.28	1724938.87	382861.57	39°32'49.4851"N	80°28'31.5363"W	108.70	295.288	4.57	4.24	5.29
3397.00	20.930	302.040	3383.18	-82.83	54.49	-111.35	1724925.80	382869.63	39°32'49.5633"N	80°28'31.7042"W	123.96	296.075	2.42	2.34	1.77
3440.00	21.750	301.910	3423.21	-94.42	62.78	-124.62	1724912.53	382877.91	39°32'49.6438"N	80°28'31.8748"W	139.54	296.736	1.91	1.91	-0.30
3482.00	22.180	301.170	3462.16	-105.99	70.99	-138.01	1724899.14	382886.13	39°32'49.7236"N	80°28'32.0468"W	155.20	297.221	1.22	1.02	-1.76
3524.00	22.790	300.000	3500.97	-117.62	79.16	-151.84	1724885.31	382894.30	39°32'49.8028"N	80°28'32.2245"W	171.24	297.536	1.80	1.45	-2.79
3567.00	24.010	298.270	3540.43	-129.69	87.47	-166.76	1724870.39	382902.61	39°32'49.8833"N	80°28'32.4161"W	188.30	297.679	3.26	2.84	-4.02
3609.00	25.290	296.170	3578.61	-141.64	95.47	-182.33	1724854.82	382910.61	39°32'49.9608"N	80°28'32.6160"W	205.82	297.638	3.69	3.05	-5.00
3653.00	26.670	294.870	3618.16	-154.38	103.77	-199.73	1724837.42	382918.91	39°32'50.0409"N	80°28'32.8393"W	225.08	297.455	3.39	3.14	-2.96
3695.00	28.050	294.190	3655.46	-166.88	111.78	-217.29	1724819.86	382926.92	39°32'50.1182"N	80°28'33.0645"W	244.36	297.223	3.37	3.29	-1.62
3738.00	29.840	294.220	3693.09	-180.27	120.32	-236.27	1724800.88	382935.46	39°32'50.2005"N	80°28'33.3080"W	265.14	296.987	4.16	4.16	0.07
3781.00	31.070	294.960	3730.15	-194.41	129.39	-256.09	1724781.06	382944.53	39°32'50.2880"N	80°28'33.5622"W	286.92	296.805	2.99	2.86	1.72
3823.00	32.500	295.080	3765.85	-208.89	138.74	-276.13	1724761.02	382953.88	39°32'50.3783"N	80°28'33.8194"W	309.03	296.677	3.41	3.40	0.29
3867.00	33.700	294.530	3802.71	-224.54	148.82	-297.94	1724739.21	382963.96	39°32'50.4756"N	80°28'34.0993"W	333.05	296.542	2.81	2.73	-1.25
3909.00	35.530	294.760	3837.28	-240.03	158.77	-319.63	1724717.52	382973.91	39°32'50.5716"N	80°28'34.3774"W	356.89	296.415	4.37	4.36	0.55
3994.00	38.200	296.980	3905.28	-273.98	181.05	-365.49	1724671.66	382996.18	39°32'50.7868"N	80°28'34.9660"W	407.87	296.352	3.51	3.14	2.61
4079.00	38.160	297.530	3972.09	-309.89	205.11	-412.20	1724624.95	383020.25	39°32'51.0196"N	80°28'35.5655"W	460.41	296.455	0.40	-0.05	0.68
4166.00	37.910	299.970	4040.62	-347.52	230.88	-459.19	1724577.96	383046.02	39°32'51.2693"N	80°28'36.1690"W	513.96	296.694	1.75	-0.29	2.80

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4251.00	37.780	302.180	4107.75	-385.60	257.79	-503.85	1724533.30	383072.93	39°32'51.5305"N	80°28'36.7428"W	565.97	297.097	1.60	-0.15	2.60
4338.00	37.430	303.590	4176.67	-425.50	286.62	-548.43	1724488.72	383101.76	39°32'51.8105"N	80°28'37.3159"W	618.81	297.592	1.07	-0.40	1.62
4423.00	36.990	304.580	4244.37	-464.84	315.42	-591.00	1724446.15	383130.56	39°32'52.0907"N	80°28'37.8634"W	669.90	298.089	0.87	-0.52	1.16
4508.00	36.610	303.830	4312.43	-503.88	344.04	-633.11	1724404.04	383159.18	39°32'52.3690"N	80°28'38.4049"W	720.55	298.521	0.69	-0.45	-0.88
4595.00	36.440	302.160	4382.35	-542.86	372.24	-676.53	1724360.62	383187.38	39°32'52.6430"N	80°28'38.9631"W	772.18	298.820	1.16	-0.20	-1.92
4680.00	35.650	299.620	4451.08	-579.29	397.92	-719.44	1724317.71	383213.06	39°32'52.8922"N	80°28'39.5144"W	822.15	298.947	1.99	-0.93	-2.99
4764.00	35.370	298.280	4519.46	-613.67	421.54	-762.13	1724275.02	383236.68	39°32'53.1211"N	80°28'40.0627"W	870.94	298.947	0.98	-0.33	-1.60
4851.00	33.920	295.940	4591.03	-647.38	444.09	-806.14	1724231.01	383259.23	39°32'53.3392"N	80°28'40.6276"W	920.37	298.850	2.26	-1.67	-2.69
4936.00	33.390	294.070	4661.79	-678.19	464.00	-848.82	1724188.33	383279.14	39°32'53.5314"N	80°28'41.1752"W	967.37	298.663	1.37	-0.62	-2.20
5011.00	33.060	293.150	4724.53	-704.31	480.46	-888.48	1724150.68	383295.60	39°32'53.6900"N	80°28'41.8582"W	1008.31	298.457	0.80	-0.44	-1.23
5097.00	33.050	293.870	4796.61	-734.06	499.18	-929.49	1724107.66	383314.32	39°32'53.8703"N	80°28'42.2099"W	1055.05	298.238	0.46	-0.01	0.84
5183.00	34.460	296.660	4868.11	-765.49	519.59	-972.68	1724064.47	383334.72	39°32'54.0674"N	80°28'42.7641"W	1102.76	298.110	2.44	1.64	3.24
5268.00	36.410	298.490	4937.37	-799.37	542.41	-1016.35	1724020.80	383357.55	39°32'54.2883"N	80°28'43.3247"W	1152.03	298.088	2.61	2.29	2.15
5353.00	37.020	298.710	5005.50	-834.96	566.74	-1060.97	1723976.19	383381.88	39°32'54.5239"N	80°28'43.8977"W	1202.85	298.110	0.73	0.72	0.26
5438.00	37.960	298.450	5073.74	-871.60	591.77	-1106.93	1723930.22	383406.91	39°32'54.7664"N	80°28'44.4878"W	1255.19	298.129	1.11	1.09	-0.30
5524.00	37.140	297.580	5141.13	-907.50	616.11	-1152.66	1723884.49	383431.25	39°32'55.0020"N	80°28'45.0751"W	1306.99	298.125	1.15	-0.96	-1.02
5611.00	36.040	296.910	5210.98	-942.93	639.85	-1198.76	1723838.39	383454.99	39°32'55.2317"N	80°28'45.6669"W	1358.84	298.092	1.35	-1.26	-0.77
5696.00	35.800	296.470	5279.82	-976.65	662.25	-1243.31	1723793.84	383477.39	39°32'55.4483"N	80°28'46.2388"W	1408.69	298.042	0.41	-0.28	-0.52
5780.00	36.050	296.240	5347.84	-1009.76	684.13	-1287.48	1723749.68	383499.27	39°32'55.6597"N	80°28'46.8056"W	1457.95	297.985	0.34	0.30	-0.27
5866.00	35.670	294.970	5417.54	-1043.11	705.90	-1332.91	1723704.25	383521.04	39°32'55.8700"N	80°28'47.3885"W	1508.29	297.906	0.97	-0.44	-1.48
5952.00	34.750	295.680	5487.81	-1075.75	727.11	-1377.73	1723659.43	383542.25	39°32'56.0748"N	80°28'47.9636"W	1557.83	297.823	1.17	-1.07	0.83
6039.00	34.280	297.310	5559.49	-1108.95	749.10	-1421.84	1723615.31	383564.24	39°32'56.2873"N	80°28'48.5299"W	1607.10	297.782	1.19	-0.54	1.87
6124.00	34.830	297.920	5629.50	-1142.12	771.45	-1464.56	1723572.59	383586.58	39°32'56.5036"N	80°28'49.0783"W	1655.32	297.778	0.76	0.65	0.72
6211.00	35.870	297.100	5700.46	-1176.67	794.69	-1509.21	1723527.95	383609.83	39°32'56.7285"N	80°28'49.6515"W	1705.65	297.770	1.31	1.20	-0.94
6298.00	36.620	296.740	5770.62	-1211.60	817.98	-1555.07	1723482.08	383633.12	39°32'56.9537"N	80°28'50.2402"W	1757.08	297.745	0.90	0.86	-0.41
6383.00	35.900	295.920	5839.16	-1245.36	840.28	-1600.13	1723437.03	383655.42	39°32'57.1693"N	80°28'50.8185"W	1807.34	297.705	1.02	-0.85	-0.96
6468.00	35.530	297.110	5908.18	-1278.79	862.43	-1644.52	1723392.63	383677.56	39°32'57.3834"N	80°28'51.3884"W	1856.94	297.674	0.93	-0.44	1.40
6554.00	36.100	297.750	5977.91	-1313.29	885.61	-1689.19	1723347.96	383700.75	39°32'57.6077"N	80°28'51.9618"W	1907.27	297.667	0.79	0.66	0.74
6639.00	36.000	297.350	6046.64	-1347.66	908.75	-1733.54	1723303.61	383723.89	39°32'57.8316"N	80°28'52.5312"W	1957.29	297.664	0.30	-0.12	-0.47
6725.00	36.690	298.980	6115.91	-1383.07	932.80	-1778.47	1723258.68	383747.94	39°32'58.0644"N	80°28'53.1081"W	2008.25	297.677	1.37	0.80	1.87

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Vanderbilt 4H AWP Proj: 22356'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

WELLPATH DATA (256 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]
6811.00	36.020	298.800	6185.17	-1418.95	957.42	-1823.11	1723214.05	383772.56	39°32'58.3030"N	80°28'53.6814"W	2059.22	297.707	0.79	-0.78	-0.19
6888.00	35.040	298.820	6247.83	-1450.40	978.99	-1862.32	1723174.84	383794.12	39°32'58.5119"N	80°28'54.1849"W	2103.96	297.730	1.27	-1.27	0.03
6972.00	35.130	299.900	6316.57	-1484.66	1002.66	-1904.40	1723132.76	383817.80	39°32'58.7413"N	80°28'54.7254"W	2152.22	297.767	0.75	0.11	1.29
7058.00	34.120	299.360	6387.34	-1519.51	1026.82	-1946.87	1723090.29	383841.96	39°32'58.9755"N	80°28'55.2709"W	2201.06	297.808	1.23	-1.17	-0.63
7144.00	33.370	298.680	6458.85	-1553.21	1049.99	-1986.65	1723048.51	383865.13	39°32'59.1909"N	80°28'55.8075"W	2248.82	297.834	0.98	-0.67	-0.61
7230.00	34.630	297.150	6530.15	-1586.45	1072.48	-2031.15	1723006.01	383887.62	39°32'59.4177"N	80°28'56.3532"W	2296.91	297.835	1.76	1.47	-1.76
7314.00	34.880	295.780	6599.16	-1618.69	1093.82	-2074.01	1722963.14	383908.96	39°32'59.6239"N	80°28'56.9034"W	2344.77	297.807	0.98	0.30	-1.63
7400.00	35.310	294.870	6669.53	-1651.24	1114.97	-2118.70	1722918.45	383930.11	39°32'59.8281"N	80°28'57.4769"W	2394.17	297.756	0.79	0.50	-1.06
7486.00	37.320	295.200	6738.82	-1684.58	1136.52	-2164.85	1722872.31	383951.66	39°33'0.0362"N	80°28'58.0889"W	2445.04	297.699	2.35	2.34	0.38
7572.00	38.940	296.680	6806.47	-1719.97	1159.76	-2212.59	1722824.57	383974.90	39°33'0.2606"N	80°28'58.6816"W	2498.12	297.662	2.16	1.88	1.72
7602.00	39.120	296.710	6829.77	-1732.74	1168.25	-2229.46	1722807.69	383983.39	39°33'0.3427"N	80°28'58.8983"W	2517.01	297.655	0.60	0.60	0.10
7695.00	38.140	293.240	6902.43	-1770.70	1192.77	-2282.07	1722755.09	384007.91	39°33'0.5794"N	80°28'59.5732"W	2574.98	297.595	2.56	-1.05	-3.73
7789.00	28.130	276.320	6981.21	-1797.48	1206.73	-2330.99	1722706.16	384021.87	39°33'0.7120"N	80°29'0.1997"W	2624.83	297.370	14.41	-10.65	-18.00
7884.00	23.550	258.830	7066.81	-1807.51	1205.51	-2371.95	1722665.20	384020.65	39°33'0.6956"N	80°29'0.7225"W	2660.72	296.941	9.31	-4.82	-18.41
7979.00	26.040	244.160	7153.13	-1805.44	1192.73	-2409.38	1722627.78	384007.87	39°33'0.5652"N	80°29'1.1985"W	2688.44	296.337	6.97	2.62	-15.44
8073.00	27.900	225.610	7237.08	-1791.32	1168.31	-2443.73	1722593.43	383983.45	39°33'0.3201"N	80°29'1.6336"W	2708.65	295.552	9.13	1.98	-19.73
8169.00	27.600	199.990	7322.32	-1762.46	1131.57	-2467.47	1722569.69	383946.71	39°32'59.9544"N	80°29'1.9315"W	2714.56	294.636	12.35	-0.31	-26.69
8263.00	33.810	188.270	7403.17	-1720.86	1085.14	-2478.69	1722558.46	383900.28	39°32'59.4943"N	80°29'2.0683"W	2705.82	293.643	9.15	6.61	-12.47
8357.00	42.410	182.180	7477.09	-1666.73	1027.45	-2483.67	1722553.48	383842.59	39°32'58.8237"N	80°29'2.1238"W	2687.80	292.474	9.98	9.15	-6.48
8467.00	52.480	175.750	7551.43	-1588.48	946.83	-2481.84	1722555.31	383761.77	39°32'58.1251"N	80°29'2.0891"W	2658.25	290.878	10.11	9.15	-5.65
8547.00	56.440	171.380	7597.94	-1524.29	881.99	-2474.50	1722562.66	383697.13	39°32'57.4870"N	80°29'1.9863"W	2626.98	289.618	6.64	4.95	-5.45
8642.00	62.630	166.310	7646.10	-1442.75	801.75	-2458.57	1722578.59	383616.89	39°32'56.6957"N	80°29'1.7717"W	2585.99	288.061	7.98	6.52	-5.35
8736.00	70.290	162.670	7683.63	-1356.66	718.81	-2435.47	1722601.69	383533.95	39°32'55.8785"N	80°29'1.4653"W	2539.33	286.444	8.89	8.15	-3.87
8830.00	78.310	159.850	7709.05	-1266.37	633.21	-2406.38	1722630.78	383448.35	39°32'55.0357"N	80°29'1.0820"W	2488.30	284.743	9.01	8.53	-3.00
8925.00	86.430	158.570	7721.65	-1172.64	545.26	-2372.98	1722664.18	383360.40	39°32'54.1701"N	80°29'0.6433"W	2434.82	282.941	8.65	8.55	-1.35
9019.00	88.370	155.520	7725.92	-1079.47	458.81	-2336.36	1722700.80	383273.95	39°32'53.3196"N	80°29'0.1637"W	2380.98	281.110	3.84	2.06	-3.24
9113.00	88.250	154.790	7728.69	-986.67	373.55	-2296.88	1722740.27	383188.69	39°32'52.4812"N	80°28'59.6479"W	2327.06	279.237	0.79	-0.13	-0.78
9208.00	88.800	155.140	7731.14	-892.92	287.50	-2256.69	1722780.46	383102.64	39°32'51.6351"N	80°28'59.1228"W	2274.93	277.260	0.69	0.58	0.37
9302.00	88.710	155.230	7733.18	-800.09	202.20	-2217.25	1722819.90	383017.34	39°32'50.7963"N	80°28'58.6074"W	2226.45	275.211	0.14	-0.10	0.10
9396.00	88.340	154.310	7735.60	-707.38	117.20	-2177.20	1722859.96	382932.34	39°32'49.9606"N	80°28'58.0842"W	2180.35	273.081	1.05	-0.39	-0.98

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

WELLPATH DATA (256 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]
9490.00	88.250	153.710	7738.40	-614.89	32.74	-2136.02	1722901.13	382847.88	39°32'49.1303"N	80°28'57.5469"W	2136.27	270.878	0.65	-0.10	-0.64
9584.00	88.560	154.570	7741.01	-522.36	-51.81	-2095.04	1722942.11	382763.33	39°32'48.2991"N	80°28'57.0119"W	2095.68	268.583	0.97	0.33	0.91
9678.00	89.480	155.320	7742.62	-429.58	-136.95	-2055.24	1722981.92	382678.19	39°32'47.4619"N	80°28'56.4919"W	2059.80	266.188	1.26	0.98	0.80
9771.00	89.730	153.930	7743.26	-337.87	-220.98	-2015.39	1723021.77	382594.17	39°32'46.6358"N	80°28'55.9715"W	2027.46	263.743	1.52	0.27	-1.49
9865.00	89.790	154.260	7743.65	-245.31	-305.53	-1974.31	1723062.84	382509.62	39°32'45.8046"N	80°28'55.4354"W	1997.81	261.203	0.35	0.06	0.34
9960.00	89.950	154.350	7743.87	-151.72	-391.13	-1933.12	1723104.04	382424.01	39°32'44.9630"N	80°28'54.8975"W	1972.29	258.562	0.20	0.17	0.11
10054.00	89.480	154.510	7744.34	-59.07	-475.92	-1892.54	1723144.61	382339.22	39°32'44.1294"N	80°28'54.3678"W	1951.47	255.884	0.53	-0.50	0.17
10149.00	89.360	151.780	7745.30	34.17	-560.66	-1849.64	1723187.52	382254.48	39°32'43.2965"N	80°28'53.8082"W	1932.74	253.137	2.88	-0.13	-2.87
10243.00	89.480	152.570	7746.25	126.12	-643.79	-1805.76	1723231.39	382171.35	39°32'42.4797"N	80°28'53.2366"W	1917.09	250.378	0.85	0.13	0.84
10337.00	89.390	154.680	7747.18	218.52	-727.96	-1783.93	1723273.22	382087.18	39°32'41.6523"N	80°28'52.6909"W	1908.24	247.575	2.14	-0.10	2.14
10432.00	89.330	153.030	7748.24	311.96	-813.19	-1722.00	1723315.15	382001.95	39°32'40.8144"N	80°28'52.1438"W	1904.36	244.722	1.63	-0.06	-1.63
10526.00	89.390	150.890	7749.29	403.83	-896.15	-1677.82	1723359.33	381918.99	39°32'39.9993"N	80°28'51.5682"W	1902.15	241.893	2.28	0.06	-2.28
10620.00	89.420	155.610	7750.27	496.11	-980.06	-1635.52	1723401.63	381835.08	39°32'39.1745"N	80°28'51.0166"W	1906.69	239.069	5.02	0.03	5.02
10714.00	89.360	155.180	7751.27	589.01	-1065.52	-1596.39	1723440.76	381749.62	39°32'38.3341"N	80°28'50.5052"W	1919.32	236.279	0.46	-0.06	-0.46
10808.00	89.210	155.180	7752.44	681.85	-1150.83	-1556.93	1723480.22	381664.31	39°32'37.4953"N	80°28'49.9897"W	1936.09	233.529	0.16	-0.16	0.00
10902.00	89.420	156.820	7753.56	774.89	-1236.70	-1518.70	1723518.45	381578.45	39°32'36.6508"N	80°28'49.4897"W	1958.54	230.844	1.76	0.22	1.74
10996.00	90.010	156.350	7754.03	868.07	-1322.95	-1481.35	1723555.80	381492.19	39°32'35.8023"N	80°28'49.0009"W	1986.10	228.233	0.80	0.63	-0.50
11089.00	89.700	156.410	7754.27	960.21	-1408.16	-1444.09	1723593.06	381406.98	39°32'34.9642"N	80°28'48.5134"W	2017.01	225.722	0.34	-0.33	0.06
11183.00	89.940	156.280	7754.56	1053.34	-1494.26	-1406.37	1723630.78	381320.88	39°32'34.1173"N	80°28'48.0200"W	2052.00	223.264	0.29	0.26	-0.14
11277.00	90.710	157.470	7754.03	1146.58	-1580.71	-1369.46	1723667.70	381234.44	39°32'33.2669"N	80°28'47.5367"W	2091.42	220.904	1.51	0.82	1.27
11370.00	89.640	156.580	7753.74	1238.86	-1666.33	-1333.16	1723704.00	381148.82	39°32'32.4246"N	80°28'47.0615"W	2134.00	218.662	1.50	-1.15	-0.96
11464.00	89.570	156.300	7754.39	1332.01	-1752.49	-1295.59	1723741.57	381062.65	39°32'31.5771"N	80°28'46.5699"W	2179.39	216.475	0.31	-0.07	-0.30
11558.00	89.760	156.530	7754.94	1425.15	-1838.64	-1257.98	1723779.18	380976.51	39°32'30.7297"N	80°28'46.0778"W	2227.80	214.380	0.32	0.20	0.24
11652.00	89.910	156.390	7755.21	1518.31	-1924.81	-1220.43	1723816.72	380890.33	39°32'29.8821"N	80°28'45.5866"W	2279.11	212.377	0.22	0.16	-0.15
11746.00	89.640	156.150	7755.58	1611.42	-2010.86	-1182.61	1723854.55	380804.28	39°32'29.0357"N	80°28'45.0918"W	2332.84	210.460	0.38	-0.29	-0.26
11840.00	89.970	155.260	7755.90	1704.40	-2096.54	-1143.93	1723893.22	380718.61	39°32'28.1931"N	80°28'44.5862"W	2388.32	208.618	1.01	0.35	-0.95
11934.00	89.730	155.400	7756.15	1797.29	-2181.96	-1104.70	1723932.46	380633.19	39°32'27.3531"N	80°28'44.0736"W	2445.67	206.852	0.30	-0.26	0.15
12028.00	89.390	155.180	7756.87	1890.16	-2267.35	-1065.40	1723971.75	380547.80	39°32'26.5134"N	80°28'43.5601"W	2505.19	205.168	0.43	-0.36	-0.23
12122.00	89.420	155.280	7757.65	1983.02	-2352.70	-1026.02	1724011.13	380462.45	39°32'25.6741"N	80°28'43.0456"W	2566.69	203.562	0.11	0.03	0.11
12216.00	88.770	155.310	7759.33	2075.89	-2438.08	-986.74	1724050.41	380377.06	39°32'24.8345"N	80°28'42.5323"W	2630.19	202.034	0.69	-0.69	0.03

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marlon	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

WELLPATH DATA (256 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]
12310.00	89.140	155.220	7761.05	2168.74	-2523.44	-947.42	1724089.74	380291.70	39°32'23.9950"N	80°28'42.0185"W	2695.43	200.578	0.41	0.39	-0.10
12404.00	89.330	154.330	7762.30	2261.48	-2608.47	-907.36	1724129.79	380206.67	39°32'23.1590"N	80°28'41.4954"W	2761.78	199.180	0.97	0.20	-0.95
12498.00	89.350	152.460	7763.38	2353.82	-2692.51	-865.27	1724171.88	380122.64	39°32'22.3330"N	80°28'40.9465"W	2828.12	197.815	1.99	0.02	-1.99
12592.00	89.810	154.140	7764.07	2446.13	-2776.48	-823.03	1724214.12	380038.67	39°32'21.5076"N	80°28'40.3957"W	2895.90	196.511	1.85	0.49	1.79
12686.00	89.440	153.030	7764.69	2538.53	-2860.66	-781.22	1724255.93	379954.48	39°32'20.6801"N	80°28'39.8503"W	2965.42	195.274	1.24	-0.39	-1.18
12779.00	89.480	150.560	7765.56	2629.37	-2942.61	-737.27	1724299.88	379872.54	39°32'19.8749"N	80°28'39.2780"W	3033.56	194.066	2.66	0.04	-2.66
12873.00	89.480	150.380	7766.42	2720.70	-3024.40	-690.94	1724346.21	379790.75	39°32'19.0716"N	80°28'38.6753"W	3102.32	192.869	0.19	0.00	-0.19
12967.00	90.150	154.110	7766.72	2812.66	-3107.56	-647.17	1724389.98	379707.58	39°32'18.2543"N	80°28'38.1051"W	3174.24	191.764	4.03	0.71	3.97
13061.00	89.780	153.280	7766.78	2905.10	-3191.83	-605.52	1724431.63	379623.32	39°32'17.4260"N	80°28'37.5617"W	3248.76	190.742	0.97	-0.39	-0.88
13155.00	90.400	153.470	7766.63	2997.44	-3275.86	-563.39	1724473.76	379539.29	39°32'16.8000"N	80°28'37.0124"W	3323.98	189.758	0.69	0.66	0.20
13249.00	90.300	155.990	7766.06	3090.16	-3360.86	-523.27	1724513.88	379454.29	39°32'15.7643"N	80°28'36.4885"W	3401.35	188.850	2.68	-0.11	2.68
13343.00	89.320	155.430	7766.37	3183.14	-3446.53	-484.60	1724552.55	379368.61	39°32'14.9216"N	80°28'35.9830"W	3480.44	188.004	1.20	-1.04	-0.80
13436.00	90.400	157.900	7766.60	3275.34	-3531.92	-447.77	1724589.38	379283.23	39°32'14.0817"N	80°28'35.5011"W	3560.19	187.225	2.90	1.16	2.66
13531.00	89.010	156.520	7767.08	3369.64	-3619.50	-410.97	1724626.18	379195.65	39°32'13.2201"N	80°28'35.0192"W	3642.75	186.478	2.06	-1.46	-1.45
13625.00	89.230	155.870	7768.53	3462.72	-3705.49	-373.04	1724664.12	379109.66	39°32'12.3743"N	80°28'34.5231"W	3724.22	185.749	0.73	0.23	-0.69
13719.00	89.530	158.460	7769.55	3556.01	-3792.11	-336.56	1724700.59	379023.04	39°32'11.5221"N	80°28'34.0456"W	3807.02	185.072	2.77	0.32	2.76
13813.00	89.200	156.270	7770.59	3649.34	-3878.86	-300.39	1724736.76	378936.29	39°32'10.6686"N	80°28'33.5719"W	3890.47	184.428	2.36	-0.35	-2.33
13907.00	89.130	155.500	7771.96	3742.36	-3964.65	-261.99	1724775.16	378850.50	39°32'9.8249"N	80°28'33.0698"W	3973.29	183.781	0.82	-0.07	-0.82
14001.00	89.260	156.740	7773.28	3835.42	-4050.59	-223.94	1724813.21	378764.56	39°32'8.9796"N	80°28'32.5723"W	4056.77	183.164	1.33	0.14	1.32
14095.00	88.060	154.740	7775.48	3928.38	-4136.26	-185.33	1724851.62	378678.89	39°32'8.1370"N	80°28'32.0676"W	4140.41	182.565	2.48	-1.28	-2.13
14188.00	89.320	156.820	7777.60	4020.36	-4221.04	-147.19	1724889.96	378594.10	39°32'7.3032"N	80°28'31.5691"W	4223.61	181.997	2.61	1.35	2.24
14282.00	89.320	156.740	7778.72	4113.58	-4307.42	-110.13	1724927.02	378507.73	39°32'6.4534"N	80°28'31.0842"W	4308.83	181.465	0.09	0.00	-0.09
14376.00	89.200	156.230	7779.93	4206.73	-4393.61	-72.63	1724964.52	378421.54	39°32'5.6057"N	80°28'30.5936"W	4394.21	180.947	0.56	-0.13	-0.54
14470.00	89.500	156.720	7781.00	4299.88	-4479.79	-35.11	1725002.04	378335.36	39°32'4.7579"N	80°28'30.1028"W	4479.93	180.449	0.61	0.32	0.52
14563.00	89.630	155.240	7781.70	4391.93	-4564.73	2.74	1725039.89	378250.42	39°32'3.9225"N	80°28'29.6079"W	4564.73	179.966	1.60	0.14	-1.59
14657.00	89.560	154.520	7782.37	4484.70	-4649.84	42.64	1725079.79	378165.31	39°32'3.0856"N	80°28'29.0868"W	4650.04	179.475	0.77	-0.07	-0.77
14751.00	89.560	155.330	7783.09	4577.48	-4734.98	82.48	1725119.63	378080.17	39°32'2.2485"N	80°28'28.5666"W	4735.70	179.002	0.86	0.00	0.86
14845.00	89.530	153.760	7783.84	4670.16	-4819.85	122.88	1725160.03	377995.30	39°32'1.4140"N	80°28'28.0393"W	4821.41	178.540	1.67	-0.03	-1.67
14940.00	89.440	154.450	7784.69	4763.70	-4905.30	164.37	1725201.52	377909.85	39°32'0.5738"N	80°28'27.4979"W	4908.06	178.081	0.73	-0.09	0.73
15033.00	89.500	155.170	7785.55	4855.46	-4989.46	203.95	1725241.10	377825.69	39°31'59.7464"N	80°28'26.9811"W	4993.62	177.659	0.78	0.06	0.77

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Actual Wellpath Report

Vanderbilt 4H AWP Proj: 22356'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

WELLPATH DATA (256 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]
15127.00	89.660	155.480	7786.24	4948.34	-5074.87	243.19	1725280.34	377740.28	39°31'58.9064"N	80°28'26.4685"W	5080.69	177.256	0.37	0.17	0.33
15220.00	89.690	155.060	7786.77	5040.23	-5159.34	282.09	1725319.24	377655.81	39°31'58.0758"N	80°28'25.9603"W	5167.05	176.870	0.45	0.03	-0.45
15314.00	89.720	155.770	7787.25	5133.13	-5244.82	321.20	1725358.35	377570.33	39°31'57.2351"N	80°28'25.4493"W	5254.64	176.496	0.76	0.03	0.76
15409.00	89.720	155.410	7787.72	5227.08	-5331.32	360.46	1725397.61	377483.83	39°31'56.3844"N	80°28'24.9363"W	5343.50	176.132	0.38	0.00	-0.38
15504.00	89.620	155.410	7788.28	5320.97	-5417.71	399.99	1725437.14	377397.44	39°31'55.5349"N	80°28'24.4198"W	5432.45	175.778	0.11	-0.11	0.00
15598.00	89.320	155.430	7789.13	5413.88	-5503.18	439.09	1725476.24	377311.97	39°31'54.6942"N	80°28'23.9090"W	5520.67	175.438	0.32	-0.32	0.02
15692.00	89.230	155.540	7790.32	5506.80	-5588.70	478.09	1725515.24	377226.46	39°31'53.8532"N	80°28'23.3994"W	5609.12	175.110	0.15	-0.10	0.12
15786.00	89.160	155.210	7791.64	5599.69	-5674.15	517.25	1725554.40	377141.00	39°31'53.0130"N	80°28'22.8878"W	5697.67	174.791	0.36	-0.07	-0.35
15880.00	89.190	155.430	7793.00	5692.56	-5759.55	556.50	1725593.65	377059.60	39°31'52.1731"N	80°28'22.3751"W	5786.37	174.481	0.24	0.03	0.23
15973.00	89.810	155.210	7793.81	5784.46	-5844.05	595.33	1725632.48	376971.10	39°31'51.3421"N	80°28'21.8679"W	5874.30	174.183	0.71	0.67	-0.24
16067.00	89.780	155.400	7794.14	5877.34	-5929.45	634.60	1725671.75	376885.70	39°31'50.5022"N	80°28'21.3549"W	5963.32	173.891	0.20	-0.03	0.20
16256.00	89.590	155.230	7795.18	6064.09	-6101.18	713.53	1725750.68	376713.97	39°31'48.8134"N	80°28'20.3238"W	6142.76	173.330	0.13	-0.10	-0.09
16349.00	89.630	155.290	7795.82	6155.97	-6185.64	752.45	1725789.60	376629.51	39°31'47.9828"N	80°28'19.8154"W	6231.24	173.064	0.08	0.04	0.06
16444.00	89.630	155.280	7796.43	6249.84	-6271.94	792.17	1725829.32	376543.21	39°31'47.1342"N	80°28'19.2966"W	6321.77	172.801	0.01	0.00	-0.01
16539.00	89.750	155.580	7796.94	6343.74	-6358.34	831.66	1725868.81	376458.81	39°31'46.2845"N	80°28'18.7807"W	6412.50	172.548	0.35	0.13	0.33
16633.00	90.730	155.440	7796.55	6436.79	-6444.22	869.87	1725907.02	376370.93	39°31'45.4398"N	80°28'18.2812"W	6502.66	172.312	1.38	1.04	0.90
16726.00	91.790	155.830	7794.51	6528.86	-6529.25	907.49	1725944.64	376285.91	39°31'44.6035"N	80°28'17.7894"W	6592.01	172.087	1.31	1.14	-0.66
16820.00	90.280	155.290	7792.81	6621.79	-6614.81	946.37	1725983.52	376200.35	39°31'43.7620"N	80°28'17.2813"W	6682.16	171.858	1.71	-1.61	-0.57
16914.00	89.210	153.870	7793.23	6714.47	-6699.70	986.72	1726023.87	376115.45	39°31'42.9273"N	80°28'16.7547"W	6771.97	171.622	1.89	-1.14	-1.51
17009.00	89.140	155.150	7794.59	6808.12	-6785.44	1027.60	1726064.75	376029.71	39°31'42.0842"N	80°28'16.2212"W	6862.81	171.388	1.35	-0.07	1.35
17103.00	88.440	155.390	7796.58	6900.97	-6870.80	1066.92	1726104.06	375944.35	39°31'41.2448"N	80°28'15.7077"W	6953.15	171.173	0.79	-0.74	0.26
17197.00	89.360	155.020	7798.38	6993.81	-6956.12	1106.33	1726143.48	375859.03	39°31'40.4058"N	80°28'15.1929"W	7043.55	170.963	1.05	0.98	-0.39
17385.00	90.130	156.040	7799.22	7179.68	-7127.23	1184.20	1726221.35	375687.92	39°31'38.7230"N	80°28'14.1755"W	7224.94	170.566	0.68	0.41	0.54
17480.00	89.510	156.600	7799.52	7273.79	-7214.23	1222.35	1726259.50	375600.92	39°31'37.8672"N	80°28'13.6766"W	7317.05	170.383	0.88	-0.65	0.59
17574.00	90.000	156.850	7799.92	7367.00	-7300.58	1259.50	1726296.64	375514.58	39°31'37.0178"N	80°28'13.1907"W	7408.43	170.212	0.69	0.52	0.27
17668.00	90.100	155.400	7799.84	7460.08	-7386.53	1297.54	1726334.69	375428.62	39°31'36.1723"N	80°28'12.6934"W	7499.63	170.037	1.55	0.11	-1.54
17763.00	90.310	154.290	7799.50	7553.83	-7472.52	1337.92	1726375.07	375342.63	39°31'35.3268"N	80°28'12.1662"W	7591.35	169.849	1.19	0.22	-1.17
17857.00	89.850	153.660	7799.37	7646.35	-7556.99	1379.16	1726416.31	375258.17	39°31'34.4964"N	80°28'11.6282"W	7681.81	169.657	0.83	-0.49	-0.67
17951.00	89.790	154.170	7799.65	7738.85	-7641.41	1420.50	1726457.64	375173.74	39°31'33.6664"N	80°28'11.0891"W	7772.32	169.469	0.55	-0.06	0.54
18045.00	90.070	154.170	7799.78	7831.43	-7726.02	1461.45	1726498.60	375089.13	39°31'32.8345"N	80°28'10.5548"W	7863.03	169.289	0.30	0.30	0.00

Approved
Date
18 AUG 2025
Vanderbilt 4H AWP
Entertainment Production



Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWP
Slot	Slot #04		

WELLPATH DATA (256 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]
18139.00	90.070	153.270	7799.66	7923.88	-7810.31	1503.07	1726540.22	375004.85	39°31'32.0060"N	80°28'10.0121"W	7953.62	169.107	0.96	0.00	-0.96
18232.00	89.730	153.800	7799.83	8015.28	-7893.56	1544.52	1726581.66	374921.60	39°31'31.1876"N	80°28'9.4717"W	8043.25	168.929	0.68	-0.37	0.57
18327.00	89.940	153.570	7800.10	8108.70	-7978.71	1586.63	1726623.78	374836.44	39°31'30.3505"N	80°28'8.9226"W	8134.94	168.753	0.33	0.22	-0.24
18421.00	89.420	154.000	7800.62	8201.17	-8063.04	1628.15	1726665.30	374752.11	39°31'29.5214"N	80°28'8.3811"W	8225.79	168.584	0.72	-0.55	0.46
18515.00	89.450	154.270	7801.55	8293.73	-8147.62	1669.16	1726706.31	374667.53	39°31'28.6899"N	80°28'7.8462"W	8316.84	168.422	0.29	0.03	0.29
18609.00	89.730	154.030	7802.22	8386.30	-8232.21	1710.14	1726747.29	374582.94	39°31'27.8582"N	80°28'7.3115"W	8407.97	168.264	0.39	0.30	-0.26
18703.00	89.640	153.440	7802.74	8478.75	-8316.51	1751.74	1726788.89	374498.65	39°31'27.0295"N	80°28'6.7691"W	8498.99	168.105	0.63	-0.10	-0.63
18796.00	89.700	154.170	7803.28	8570.24	-8399.95	1792.79	1726829.94	374415.20	39°31'26.2092"N	80°28'6.2337"W	8589.14	167.952	0.79	0.06	0.78
18891.00	89.480	153.780	7803.96	8663.74	-8485.32	1834.47	1726871.62	374329.84	39°31'25.3699"N	80°28'5.6901"W	8681.36	167.801	0.47	-0.23	-0.41
18985.00	89.570	153.850	7804.73	8756.21	-8569.67	1875.95	1726913.10	374245.49	39°31'24.5407"N	80°28'5.1492"W	8772.80	167.652	0.12	0.10	0.07
19079.00	90.500	156.160	7804.68	8849.01	-8654.66	1915.67	1726952.81	374160.30	39°31'23.7030"N	80°28'4.6307"W	8864.33	167.519	2.65	0.99	2.46
19173.00	89.570	152.060	7804.62	8941.55	-8739.41	1956.70	1726993.85	374075.75	39°31'22.8717"N	80°28'4.0954"W	8955.77	167.380	4.47	-0.99	-4.36
19267.00	89.240	151.820	7805.60	9033.42	-8822.35	2000.92	1727038.06	373992.81	39°31'22.0566"N	80°28'3.5198"W	9046.41	167.221	0.43	-0.35	-0.26
19361.00	89.880	153.820	7806.32	9125.58	-8905.97	2043.85	1727081.00	373909.19	39°31'21.2348"N	80°28'2.9604"W	9137.48	167.075	2.23	0.68	2.13
19455.00	90.400	151.390	7806.99	9217.67	-8989.42	2087.10	1727124.24	373825.74	39°31'20.4147"N	80°28'2.3971"W	9228.52	166.929	2.64	0.55	-2.59
19549.00	90.160	149.450	7805.63	9308.98	-9071.16	2133.50	1727170.64	373744.00	39°31'19.6117"N	80°28'1.7937"W	9318.68	166.765	2.08	-0.26	-2.06
19643.00	90.430	151.270	7805.14	9400.26	-9152.86	2179.96	1727217.13	373662.30	39°31'18.8092"N	80°28'1.1893"W	9408.88	166.603	1.96	0.29	1.94
19737.00	90.220	153.080	7804.61	9492.21	-9235.98	2223.86	1727261.00	373579.18	39°31'17.9923"N	80°28'0.6180"W	9499.94	166.462	1.94	-0.22	1.93
19831.00	89.670	154.500	7804.70	9584.68	-9320.32	2265.37	1727302.52	373494.84	39°31'17.1633"N	80°28'0.0767"W	9591.67	166.339	1.62	-0.59	1.51
19928.00	89.970	155.740	7805.00	9678.50	-9406.50	2305.34	1727342.48	373408.66	39°31'16.3158"N	80°27'59.5548"W	9684.87	166.229	1.34	0.32	1.31
20019.00	89.940	155.710	7805.07	9770.49	-9491.27	2343.57	1727380.72	373323.89	39°31'15.4819"N	80°27'59.0553"W	9776.33	166.130	0.05	-0.03	-0.03
20113.00	89.790	156.040	7805.29	9863.51	-9577.06	2381.99	1727419.14	373238.10	39°31'14.6361"N	80°27'58.5533"W	9868.84	166.033	0.39	-0.16	0.35
20207.00	89.670	155.370	7805.74	9956.49	-9662.74	2420.67	1727457.81	373152.42	39°31'13.7955"N	80°27'58.0480"W	9961.33	165.936	0.72	-0.13	-0.71
20301.00	89.730	155.980	7806.23	10049.46	-9748.39	2459.39	1727496.53	373066.77	39°31'12.9531"N	80°27'57.5422"W	10053.84	165.841	0.65	0.06	0.65
20395.00	89.360	155.340	7806.98	10142.43	-9834.03	2498.13	1727535.27	372981.13	39°31'12.1108"N	80°27'57.0361"W	10146.37	165.747	0.79	-0.39	-0.68
20584.00	89.730	155.890	7808.48	10329.33	-10006.17	2576.16	1727613.30	372808.99	39°31'10.4178"N	80°27'56.0168"W	10332.47	165.562	0.35	0.20	0.29
20678.00	89.540	156.310	7809.08	10422.40	-10092.10	2614.24	1727651.38	372723.06	39°31'9.5725"N	80°27'55.5191"W	10425.20	165.477	0.49	-0.20	0.45
20773.00	89.390	156.620	7809.96	10516.43	-10178.86	2652.93	1727690.07	372636.30	39°31'8.7192"N	80°27'55.0135"W	10518.90	165.392	0.74	-0.16	-0.73
20868.00	89.630	156.470	7810.78	10610.48	-10265.67	2691.50	1727728.64	372549.49	39°31'7.8652"N	80°27'54.5094"W	10612.65	165.309	0.93	0.25	0.89
20962.00	89.760	155.840	7811.28	10703.56	-10351.65	2729.50	1727766.64	372463.51	39°31'7.0196"N	80°27'54.0127"W	10705.46	165.229	0.68	0.14	-0.67

WV Department of
Environmental Protection
August 18, 2025
Baker Hughes



Actual Wellpath Report

Vanderbilt 4H AWP Proj: 22356'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Vanderbilt 4H
Field	Marion	API	47-049-02535-0000
Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

WELLPATH DATA (256 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]
21057.00	90.160	156.410	7811.34	10797.63	-10438.52	2767.95	1727805.09	372376.64	39°31'6.1651"N	80°27'53.5102"W	10799.27	165.149	0.73	0.42	0.60
21151.00	89.790	156.200	7811.38	10890.75	-10524.60	2805.73	1727842.87	372290.57	39°31'5.3184"N	80°27'53.0164"W	10892.16	165.073	0.45	-0.39	-0.22
21246.00	89.730	156.610	7811.78	10984.88	-10611.65	2843.75	1727880.89	372203.51	39°31'4.4620"N	80°27'52.5193"W	10986.09	164.998	0.44	-0.06	0.43
21340.00	89.760	156.640	7812.20	11078.07	-10697.94	2881.04	1727918.19	372117.22	39°31'3.6132"N	80°27'52.0316"W	11079.09	164.927	0.05	0.03	0.03
21435.00	89.970	156.780	7812.42	11172.27	-10785.20	2918.61	1727955.75	372029.97	39°31'2.7548"N	80°27'51.5403"W	11173.12	164.858	0.27	0.22	0.15
21529.00	89.420	155.260	7812.92	11265.32	-10871.08	2956.81	1727993.95	371944.08	39°31'1.9100"N	80°27'51.0411"W	11266.01	164.784	1.72	-0.59	-1.62
21624.00	89.600	155.300	7813.74	11359.18	-10957.37	2996.53	1728033.68	371857.79	39°31'1.0614"N	80°27'50.5224"W	11359.72	164.705	0.19	0.19	0.04
21719.00	89.570	156.650	7814.42	11453.21	-11044.13	3035.21	1728072.35	371771.03	39°31'0.2079"N	80°27'50.0170"W	11453.62	164.633	1.42	-0.03	1.42
21814.00	89.630	156.050	7815.09	11547.33	-11131.15	3073.32	1728110.46	371684.01	39°30'59.3520"N	80°27'49.5189"W	11547.63	164.565	0.63	0.06	-0.63
21909.00	89.510	154.600	7815.80	11641.20	-11217.47	3112.97	1728150.12	371597.69	39°30'58.5030"N	80°27'49.0010"W	11641.41	164.490	1.53	-0.13	-1.53
22003.00	89.540	155.360	7816.58	11734.00	-11302.65	3152.73	1728189.87	371512.51	39°30'57.6654"N	80°27'48.4821"W	11734.12	164.414	0.81	0.03	0.81
22098.00	89.700	155.150	7817.21	11827.85	-11388.92	3192.49	1728229.64	371426.24	39°30'56.8169"N	80°27'47.9629"W	11827.92	164.341	0.28	0.17	-0.22
22192.00	89.390	154.840	7817.96	11920.65	-11474.11	3232.23	1728269.37	371341.05	39°30'55.9792"N	80°27'47.4443"W	11920.68	164.268	0.47	-0.33	-0.33
22287.00	89.510	154.390	7818.87	12014.33	-11559.93	3272.95	1728310.09	371255.23	39°30'55.1353"N	80°27'46.9130"W	12014.34	164.192	0.49	0.13	-0.47
22331.00	89.730	154.610	7819.16	12057.71	-11599.65	3291.89	1728329.04	371215.52	39°30'54.7448"N	80°27'46.6658"W	12057.71	164.156	0.71	0.50	0.50
22356.00†	89.730	154.610	7819.28	12082.36	-11622.23	3302.61	1728339.75	371192.93	39°30'54.5228"N	80°27'46.5260"W	12082.36	164.137	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Vanderbilt 4H AWB Ref Wellpath: Vanderbilt 4H AWP Proj: 22356'

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	1259.00	1231.00	28.00	1258.99	0.00	0.00	0.76	-3.10
13.375in Casing Surface	28.00	1259.00	1231.00	28.00	1258.99	0.00	0.00	0.76	-3.10
12.25in Open Hole	1259.00	2703.00	1444.00	1258.99	2702.94	0.76	-3.10	3.80	-14.69
9.625in Casing Intermediate	28.00	2703.00	2675.00	28.00	2702.94	0.00	0.00	3.80	-14.69
8.75in Open Hole	2703.00	7682.00	4979.00	2702.94	6892.21	3.80	-14.69	1189.57	-2274.69
8.5in Open Hole	7682.00	22356.00	14674.00	6892.21	7819.28	1189.57	-2274.69	-11622.23	3302.61
5.5in Casing Production	28.00	22356.00	22328.00	28.00	7819.28	0.00	0.00	-11622.23	3302.61

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Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Vanderbilt 4H LP Rev-2	7720.00	522.57	-2365.39	1722671.77	383337.71	39°32'53.9466"N	80°29'0.5432"W	point
Vanderbilt 4H BHL Rev-2	7836.96	-11624.30	3299.34	1728336.48	371190.86	39°30'54.5020"N	80°27'46.5675"W	point

WELLPATH COMPOSITION - Ref Wellbore: Vanderbilt 4H AWB Ref Wellpath: Vanderbilt 4H AWP Proj: 22356'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	2687.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro <12-1/4"> (100'-2672')	Vanderbilt 4H AWB	12/26/2024
2687.00	7602.00	OWSG MWD rev2 + HRGM	02 SDI MWD <8-3/4"> (2672')(2740'-7587')	Vanderbilt 4H AWB	12/26/2024
7602.00	22356.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	03 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (7602')(7695'-22331')	Vanderbilt 4H AWB	1/18/2025

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Facility	Vanderbilt Pad	Wellbore	Vanderbilt 4H AWB
Slot	Slot #04		

COMMENTS

Wellpath general comments

API: 47-049-02535-0000

BH Job #: 112536646

Rig: Patterson 294

Duration: 1/21/2025-1/25/2025

Gyrodata Cont. Gyro <12-1/4"> (100'-2672')

SDI MWD <8-3/4"> (2672')(2740'-7587')

BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (7602')(7695'-22331')

Projected MD at TD: 22356'

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