



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Deergai
Scale	0.999942	Report Generated	5/9/2024 at 6:02:55 PM
Convergence at slot	0.60° 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	29.35	6.20	1735831.28	374234.96	39°31'25.3710"N	80°26'11.3419"W
Facility Reference Pt			1735825.08	374205.61	39°31'25.0803"N	80°26'11.4171"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 292 (RKB) to Facility Vertical Datum	1346.00ft
Horizontal Reference Pt	Slot	Patterson 292 (RKB) to Mean Sea Level	1346.00ft
Vertical Reference Pt	Patterson 292 (RKB)	Patterson 292 (RKB) to Ground Level at Slot (Slot 05)	28.00ft
MD Reference Pt	Patterson 292 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	328.59°



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WELLPATH DATA (297 stations) † = interpolated, ‡ = extrapolated station

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	TVDSS (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)	Comments
0.00†	0.000	131.500	0.00	-1346.00	0.00	0.00	0.00	1735831.28	374234.96	39°31'25.3710"N	80°26'11.3419"W	0.00	0.000	0.00	0.00	0.00	
28.00	0.000	131.500	28.00	-1318.00	0.00	0.00	0.00	1735831.28	374234.96	39°31'25.3710"N	80°26'11.3419"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.690	131.500	115.00	-1231.00	-0.50	-0.35	0.39	1735831.67	374234.61	39°31'25.3676"N	80°26'11.3368"W	0.52	131.500	0.79	0.79	0.0001	Gyro
215.00	0.390	133.830	214.99	-1131.01	-1.41	-0.98	1.09	1735832.37	374233.98	39°31'25.3614"N	80°26'11.3278"W	1.47	132.041	0.30	-0.30	2.33	
315.00	0.350	142.010	314.99	-1051.01	-2.04	-1.46	1.52	1735832.80	374233.50	39°31'25.3567"N	80°26'11.3222"W	2.11	133.767	0.07	-0.04	8.18	
415.00	0.490	131.960	414.99	-931.01	-2.75	-1.98	2.03	1735833.31	374232.98	39°31'25.3516"N	80°26'11.3157"W	2.84	134.379	0.16	0.14	-10.05	
515.00	0.410	144.390	514.99	-831.01	-3.52	-2.56	2.55	1735833.83	374232.40	39°31'25.3459"N	80°26'11.3089"W	3.62	135.078	0.13	-0.08	12.43	
615.00	0.340	131.280	614.98	-731.02	-4.16	-3.05	2.99	1735834.27	374231.91	39°31'25.3412"N	80°26'11.3034"W	4.27	135.592	0.11	-0.07	-13.11	
715.00	0.380	155.710	714.98	-631.02	-4.77	-3.55	3.35	1735834.63	374231.41	39°31'25.3363"N	80°26'11.2987"W	4.88	136.670	0.16	0.04	24.43	
815.00	0.370	145.790	814.98	-531.02	-5.42	-4.12	3.66	1735834.94	374230.84	39°31'25.3307"N	80°26'11.2946"W	5.51	138.327	0.07	-0.03	-9.92	
915.00	0.360	162.250	914.98	-431.02	-6.05	-4.68	3.94	1735835.22	374230.28	39°31'25.3251"N	80°26'11.2910"W	6.12	139.913	0.10	-0.01	16.46	
1015.00	0.290	116.680	1014.98	-331.02	-6.57	-5.09	4.26	1735835.54	374229.87	39°31'25.3211"N	80°26'11.2868"W	6.64	140.082	0.26	-0.07	-45.57	
1115.00	0.340	155.670	1114.97	-231.03	-7.08	-5.48	4.61	1735835.89	374229.48	39°31'25.3173"N	80°26'11.2823"W	7.16	139.916	0.22	0.05	38.99	
1215.00	0.360	132.070	1214.97	-131.03	-7.67	-5.96	4.97	1735836.25	374229.00	39°31'25.3126"N	80°26'11.2777"W	7.76	140.194	0.14	0.02	-23.60	
1315.00	0.530	135.460	1314.97	-31.03	-8.43	-6.50	5.52	1735836.80	374228.48	39°31'25.3073"N	80°26'11.2705"W	8.53	139.639	0.17	0.17	3.39	
1415.00	0.520	124.280	1414.97	68.97	-9.29	-7.08	6.22	1735837.50	374227.88	39°31'25.3016"N	80°26'11.2615"W	9.43	138.704	0.10	-0.01	-11.18	
1515.00	0.870	113.310	1514.96	168.96	-10.32	-7.64	7.30	1735838.58	374227.32	39°31'25.2962"N	80°26'11.2478"W	10.56	136.325	0.37	0.35	-10.97	
1615.00	0.960	112.940	1614.95	268.95	-11.62	-8.27	8.76	1735840.04	374226.69	39°31'25.2902"N	80°26'11.2289"W	12.05	133.331	0.09	0.08	-0.37	
1715.00	0.960	102.040	1714.93	368.93	-12.88	-8.77	10.35	1735841.63	374226.19	39°31'25.2854"N	80°26'11.2086"W	13.57	130.259	0.18	0.00	-10.90	
1815.00	0.880	112.310	1814.92	468.92	-14.07	-9.24	11.67	1735843.15	374225.72	39°31'25.2809"N	80°26'11.1862"W	15.04	127.597	0.20	0.10	10.87	
1915.00	0.980	96.290	1914.91	568.91	-15.20	-9.62	13.41	1735844.69	374225.34	39°31'25.2773"N	80°26'11.1695"W	16.50	125.666	0.29	0.12	-16.62	
2015.00	0.740	95.760	2014.89	668.89	-16.11	-9.78	14.90	1735846.18	374225.18	39°31'25.2759"N	80°26'11.1504"W	17.82	123.282	0.24	-0.24	-0.53	
2115.00	0.740	104.830	2114.89	768.89	-16.97	-10.01	16.17	1735847.45	374224.95	39°31'25.2737"N	80°26'11.1342"W	19.01	121.767	0.12	0.00	9.07	
2215.00	0.720	110.610	2214.88	868.88	-17.93	-10.40	17.38	1735848.66	374224.56	39°31'25.2700"N	80°26'11.1187"W	20.25	120.890	0.08	-0.02	5.78	
2315.00	0.550	122.050	2314.87	968.87	-18.85	-10.87	18.37	1735849.65	374224.09	39°31'25.2654"N	80°26'11.1060"W	21.35	120.816	0.21	-0.17	11.44	
2415.00	0.550	133.060	2414.87	1068.87	-19.75	-11.45	19.13	1735850.41	374223.51	39°31'25.2697"N	80°26'11.0962"W	22.30	120.912	0.11	0.00	11.01	
2515.00	0.510	139.190	2514.86	1168.86	-20.65	-12.12	19.77	1735851.05	374222.84	39°31'25.2532"N	80°26'11.0879"W	23.19	121.507	0.07	-0.04	6.13	
2615.00	0.380	149.370	2614.86	1268.86	-21.42	-12.74	20.23	1735851.51	374222.22	39°31'25.2471"N	80°26'11.0820"W	23.91	122.202	0.15	-0.13	10.18	
2643.00	0.400	153.760	2642.86	1296.86	-21.61	-12.91	20.32	1735851.60	374222.05	39°31'25.2455"N	80°26'11.0808"W	24.08	122.425	0.13	0.07	15.68	
2758.00	0.510	146.910	2757.86	1411.86	-22.52	-13.70	20.78	1735852.06	374221.26	39°31'25.2377"N	80°26'11.0749"W	24.89	123.394	0.11	0.10	-5.9602	SDI MWD



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Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [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]	Comments
2802.00	0.440	157.430	2801.85	1455.85	-22.88	-14.02	20.95	1735852.23	374220.94	39°31'25.2346"N	80°26'11.0726"W	25.21	123.786	0.25	-0.16	23.91	KOP
2845.00	0.860	245.000	2844.85	1498.85	-23.01	-14.31	20.72	1735852.00	374220.65	39°31'25.2317"N	80°26'11.0755"W	25.18	124.622	2.21	0.98	203.65	
2888.00	2.150	261.340	2887.84	1541.84	-22.66	-14.56	19.63	1735850.91	374220.40	39°31'25.2291"N	80°26'11.0894"W	24.45	126.571	3.13	3.00	38.00	
2931.00	3.260	268.300	2930.79	1584.79	-21.74	-14.72	17.61	1735848.89	374220.24	39°31'25.2273"N	80°26'11.1152"W	22.96	129.893	2.69	2.58	16.19	
2974.00	3.850	265.570	2973.70	1627.70	-20.44	-14.84	14.91	1735846.19	374220.12	39°31'25.2258"N	80°26'11.1496"W	21.04	134.871	1.62	1.50	-3.73	
3017.00	4.780	268.230	3016.58	1670.58	-18.86	-14.99	11.64	1735842.92	374219.97	39°31'25.2241"N	80°26'11.1913"W	18.98	142.157	1.95	1.93	3.63	
3060.00	5.180	267.840	3059.42	1713.42	-17.02	-15.11	7.91	1735839.19	374219.85	39°31'25.2224"N	80°26'11.2389"W	17.06	152.369	0.93	0.93	-0.91	
3103.00	5.240	266.880	3102.24	1756.24	-15.14	-15.29	4.01	1735835.29	374219.67	39°31'25.2202"N	80°26'11.2886"W	15.81	165.303	0.25	0.14	-2.23	
3147.00	5.870	268.480	3146.03	1800.03	-13.07	-15.46	-0.24	1735831.04	374219.50	39°31'25.2181"N	80°26'11.3429"W	15.47	180.903	1.47	1.43	3.58	
3190.00	7.000	272.030	3188.76	1842.76	-10.53	-15.43	-5.09	1735826.22	374219.33	39°31'25.2180"N	80°26'11.4044"W	16.24	198.157	2.78	2.63	8.30	
3233.00	7.930	273.240	3231.39	1885.39	-7.40	-15.17	-10.64	1735820.64	374219.79	39°31'25.2200"N	80°26'11.4756"W	18.53	215.046	2.19	2.16	2.81	
3276.00	8.280	274.660	3273.97	1927.97	-3.89	-14.75	-16.69	1735814.59	374220.21	39°31'25.2235"N	80°26'11.5529"W	22.27	228.525	0.94	0.81	3.30	
3320.00	8.020	271.840	3317.52	1971.52	-0.34	-14.40	-22.91	1735808.37	374220.56	39°31'25.2264"N	80°26'11.6324"W	27.06	237.861	1.08	-0.59	-6.41	
3363.00	7.560	268.770	3360.12	2014.12	2.72	-14.36	-28.74	1735802.54	374220.60	39°31'25.2261"N	80°26'11.7067"W	32.13	243.451	1.44	-1.07	-7.14	
3406.00	7.130	265.590	3402.77	2056.77	5.38	-14.61	-34.74	1735797.04	374220.35	39°31'25.2231"N	80°26'11.7766"W	37.22	248.894	1.26	-0.95	-8.49	
3449.00	7.430	265.380	3445.42	2099.42	7.86	-15.02	-39.68	1735791.60	374219.94	39°31'25.2185"N	80°26'11.8462"W	42.43	249.267	0.67	0.65	-1.40	
3492.00	8.400	266.050	3488.01	2142.01	10.56	-15.46	-45.58	1735785.70	374219.50	39°31'25.2135"N	80°26'11.9215"W	48.13	251.265	2.27	2.26	1.56	
3578.00	10.460	267.320	3572.85	2226.85	17.21	-16.26	-59.65	1735771.63	374218.70	39°31'25.2042"N	80°26'12.1009"W	61.82	254.754	2.41	2.40	1.48	
3665.00	12.220	261.710	3658.15	2312.15	24.62	-17.95	-78.65	1735754.63	374217.01	39°31'25.1856"N	80°26'12.3176"W	78.73	256.817	2.39	2.02	-6.45	
3751.00	14.340	254.250	3741.85	2395.85	31.08	-22.16	-85.91	1735735.37	374212.80	39°31'25.1421"N	80°26'12.5829"W	95.44	256.992	3.16	2.47	-8.56	
3838.00	15.350	242.150	3825.96	2479.96	34.70	-30.46	-116.47	1735714.81	374204.50	39°31'25.0579"N	80°26'12.8241"W	120.39	255.343	3.74	1.16	-13.92	
3924.00	16.390	236.290	3908.69	2562.69	34.92	-42.51	-136.63	1735694.65	374192.45	39°31'24.9367"N	80°26'13.0797"W	143.09	252.716	2.22	1.21	-6.81	
4010.00	19.130	235.510	3990.58	2644.58	33.68	-57.23	-158.34	1735672.94	374177.73	39°31'24.7890"N	80°26'13.3549"W	168.37	250.128	3.20	3.19	-0.91	
4097.00	21.870	236.790	4072.07	2726.07	32.40	-74.18	-183.65	1735647.63	374160.78	39°31'24.6189"N	80°26'13.6756"W	198.07	248.005	3.19	3.15	1.47	
4183.00	22.400	237.070	4151.73	2805.73	31.48	-91.88	-210.81	1735620.47	374143.70	39°31'24.4414"N	80°26'14.0186"W	229.65	246.454	0.63	0.62	0.33	
4270.00	23.080	237.810	4231.97	2885.97	30.79	-109.96	-239.15	1735592.13	374125.00	39°31'24.2596"N	80°26'14.3781"W	263.22	245.308	0.85	0.78	0.85	
4356.00	23.760	238.350	4310.88	2964.88	30.49	-128.03	-268.17	1735563.11	374106.93	39°31'24.0780"N	80°26'14.7469"W	297.16	244.479	0.83	0.79	0.63	
4442.00	24.750	239.100	4389.29	3043.29	30.58	-146.37	-298.36	1735532.92	374088.60	39°31'23.8937"N	80°26'15.1208"W	332.33	243.869	1.21	1.15	0.87	
4529.00	25.740	239.250	4467.98	3121.98	30.83	-165.66	-330.05	1735501.23	374069.30	39°31'23.6997"N	80°26'15.5317"W	369.30	243.347	1.21	1.14	-0.98	
4615.00	26.280	237.690	4548.27	3199.27	30.22	-185.66	-362.03	1735469.25	374049.30	39°31'23.4987"N	80°26'15.9370"W	406.88	242.849	0.69	0.63	-0.65	



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WELLPATH DATA (297 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	TVDSS (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]	Comments
4701.00	27.010	237.300	4622.13	3276.13	29.48	-206.39	-394.65	1735436.73	374028.57	39°31'23.2905"N	80°26'16.3493"W	445.27	242.386	0.87	0.85	-0.45	
4788.00	27.410	236.840	4699.51	3353.51	28.42	-228.01	-427.94	1735403.34	374006.95	39°31'23.0733"N	80°26'16.7725"W	484.89	241.950	0.52	0.46	-0.53	
4865.00	27.940	238.670	4767.70	3421.70	27.91	-247.09	-458.19	1735373.10	373987.87	39°31'22.8817"N	80°26'17.1559"W	520.56	241.663	1.30	0.69	2.38	
4952.00	27.720	238.350	4844.64	3498.64	27.85	-268.30	-492.82	1735338.46	373966.66	39°31'22.6684"N	80°26'17.5951"W	561.12	241.435	0.31	-0.25	-0.37	
5038.00	28.090	238.450	4920.47	3574.47	27.72	-289.55	-527.30	1735303.92	373945.41	39°31'22.4548"N	80°26'18.0330"W	601.82	241.231	0.97	0.97	0.12	
5125.00	28.290	236.880	4996.99	3650.99	27.05	-311.70	-562.34	1735268.94	373923.26	39°31'22.2324"N	80°26'18.4765"W	642.95	241.001	0.91	-0.30	-1.80	
5211.00	27.550	236.200	5072.98	3726.98	25.61	-333.90	-595.94	1735235.34	373901.06	39°31'22.0095"N	80°26'18.9022"W	683.10	240.739	0.94	-0.86	-0.79	
5298.00	27.010	235.190	5150.30	3804.30	23.60	-356.37	-628.88	1735202.40	373878.59	39°31'21.7840"N	80°26'19.3196"W	722.83	240.461	0.82	-0.62	-1.16	
5384.00	26.570	233.470	5227.07	3881.07	20.73	-378.96	-660.37	1735170.91	373856.00	39°31'21.5574"N	80°26'19.7184"W	761.38	240.150	1.04	-0.51	-2.00	
5470.00	26.320	233.890	5304.07	3958.07	17.44	-401.66	-691.22	1735140.06	373833.31	39°31'21.3300"N	80°26'20.1091"W	799.46	239.840	0.35	-0.25	0.45	
5557.00	25.870	234.820	5382.21	4036.21	14.60	-423.97	-722.31	1735108.97	373810.99	39°31'21.1063"N	80°26'20.5028"W	837.54	239.589	0.71	-0.52	1.10	
5643.00	25.840	235.870	5459.60	4113.60	12.48	-445.29	-753.16	1735078.12	373789.67	39°31'20.8923"N	80°26'20.8936"W	874.95	239.407	0.53	-0.03	1.22	
5730.00	27.520	237.670	5537.33	4191.33	11.25	-466.68	-785.84	1735045.44	373768.28	39°31'20.6775"N	80°26'21.3078"W	913.97	239.296	2.14	1.93	2.07	
5816.00	28.620	238.760	5613.22	4267.22	11.00	-487.99	-820.24	1735011.04	373746.97	39°31'20.4634"N	80°26'21.7440"W	954.43	239.250	1.41	1.26	1.27	
5902.00	28.850	238.470	5688.63	4342.63	11.01	-509.52	-855.64	1734975.74	373725.44	39°31'20.2465"N	80°26'22.1915"W	995.77	239.224	0.31	0.27	-0.34	
5989.00	29.110	237.480	5764.73	4418.73	10.56	-531.87	-891.27	1734940.01	373703.09	39°31'20.0223"N	80°26'22.6445"W	1037.91	239.173	0.63	0.30	-1.14	
6075.00	29.340	238.030	5839.79	4493.79	9.95	-554.28	-926.79	1734904.50	373680.68	39°31'19.7972"N	80°26'23.0947"W	1079.89	239.118	0.41	0.27	0.64	
6161.00	29.970	238.440	5914.52	4568.52	9.69	-576.68	-962.96	1734868.32	373658.29	39°31'19.5721"N	80°26'23.5534"W	1122.43	239.085	0.77	0.73	0.48	
6247.00	29.610	236.580	5989.16	4643.16	8.89	-599.62	-999.00	1734832.28	373635.34	39°31'19.3416"N	80°26'24.0102"W	1165.14	239.027	1.15	-0.42	-2.16	
6334.00	28.740	234.730	6065.12	4719.12	6.72	-623.54	-1034.02	1734797.26	373611.42	39°31'19.1018"N	80°26'24.4536"W	1207.47	238.909	1.44	-1.00	-2.13	
6420.00	27.330	233.900	6141.03	4795.03	3.72	-647.11	-1066.85	1734764.43	373587.85	39°31'18.8652"N	80°26'24.8697"W	1247.77	238.761	1.70	-1.64	-0.97	
6506.00	26.600	233.280	6217.68	4871.68	0.32	-670.25	-1098.24	1734733.05	373564.71	39°31'18.6333"N	80°26'25.2671"W	1286.61	238.604	0.91	-0.85	-0.72	
6593.00	26.380	234.090	6295.54	4949.54	-3.00	-693.23	-1129.50	1734701.78	373541.73	39°31'18.4029"N	80°26'25.6630"W	1325.27	238.460	0.49	-0.25	0.93	
6685.00	25.420	230.540	6378.31	5032.31	-7.37	-717.77	-1161.31	1734669.98	373517.19	39°31'18.1571"N	80°26'26.0855"W	1365.22	238.281	1.98	-1.04	-3.88	
6742.00	24.660	227.580	6429.95	5083.95	-11.33	-733.56	-1173.64	1734651.74	373501.41	39°31'17.9992"N	80°26'26.2962"W	1399.04	238.123	2.61	-1.33	-5.02	03 BH Lucida+SuperiorQC IFR1+Sag FDIR <8 1/2> (6742 - 8166)
6837.00	26.740	232.060	6515.56	5169.56	-17.51	-760.04	-1211.06	1734620.22	373474.92	39°31'17.7341"N	80°26'26.6948"W	1429.80	237.888	2.96	2.19	4.61	
6931.00	26.650	236.690	6599.55	5253.55	-20.62	-784.63	-1245.36	1734585.92	373450.34	39°31'17.4876"N	80°26'27.1292"W	1471.92	237.787	2.21	-0.10	4.93	
7026.00	26.410	236.610	6684.54	5338.54	-22.05	-807.95	-1280.80	1734550.48	373427.01	39°31'17.2534"N	80°26'27.5784"W	1514.35	237.756	0.26	-0.25	-0.08	
7072.00	23.930	247.310	6726.20	5380.20	-20.99	-817.19	-1297.97	1734533.32	373417.77	39°31'17.1604"N	80°26'27.7961"W	1533.79	237.806	11.25	-5.39	23.26	04 BH Lucida+SuperiorQC IFR1+Sag FDIR <8 1/2> 7072 - 26614", Curve KOP
7168.00	29.250	262.670	6812.02	5466.02	-12.25	-831.62	-1338.36	1734492.91	373403.34	39°31'17.0196"N	80°26'28.3099"W	1575.70	238.145	6.11	5.64	5.79	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [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]	Comments
7263.00	29.620	250.620	6894.76	5548.76	-1.63	-846.25	-1382.70	1734448.58	373388.71	39°31'16.8644"N	80°26'28.8736"W	1621.11	238.532	1.23	0.39	-2.37	
7358.00	30.040	250.750	6977.18	5631.18	8.27	-861.88	-1427.30	1734403.98	373373.08	39°31'16.7053"N	80°26'29.4406"W	1667.34	238.874	0.45	0.44	0.14	
7453.00	30.040	250.590	7059.42	5713.42	18.23	-877.62	-1472.18	1734359.11	373357.34	39°31'16.5451"N	80°26'30.0111"W	1713.92	239.199	0.08	0.00	-0.17	
7548.00	29.990	250.800	7141.68	5795.68	28.19	-893.33	-1517.03	1734314.26	373341.63	39°31'16.3852"N	80°26'30.5813"W	1760.51	239.507	0.12	-0.05	0.22	
7642.00	30.010	251.750	7223.08	5877.08	38.51	-908.42	-1561.54	1734269.75	373326.54	39°31'16.2314"N	80°26'31.1473"W	1806.59	239.811	0.51	-0.02	1.01	
7736.00	32.320	265.380	7305.33	5959.33	55.57	-918.02	-1609.98	1734221.30	373316.95	39°31'16.1315"N	80°26'31.7642"W	1853.32	240.308	7.72	2.41	14.20	
7833.00	36.340	280.380	7383.90	6037.90	85.84	-914.98	-1663.10	1734168.18	373319.98	39°31'16.1560"N	80°26'32.4424"W	1898.18	241.182	9.83	4.23	15.79	
7927.00	41.950	293.770	7456.91	6110.91	130.31	-897.26	-1719.40	1734111.89	373337.71	39°31'16.3254"N	80°26'33.1632"W	1939.43	242.443	10.77	5.97	14.24	
8022.00	47.860	305.620	7524.28	6178.28	188.96	-863.85	-1777.24	1734054.04	373371.11	39°31'16.6495"N	80°26'33.9058"W	1976.07	244.077	10.76	6.22	12.47	
8117.00	54.450	312.081	7593.67	6237.67	258.56	-817.36	-1834.65	1733996.63	373417.80	39°31'17.1010"N	80°26'34.6447"W	2008.49	245.968	8.72	6.94	6.80	
8212.00	62.400	317.650	7633.61	6287.61	337.12	-760.23	-1891.82	1733939.48	373474.73	39°31'17.6618"N	80°26'35.3818"W	2038.86	248.107	9.74	6.37	5.88	
8307.00	70.390	323.630	7671.64	6325.64	423.23	-692.93	-1946.84	1733884.44	373542.03	39°31'18.3212"N	80°26'36.0829"W	2066.48	250.408	10.19	8.41	6.29	
8395.00†	77.499	329.026	7695.98	6349.98	507.64	-622.58	-1993.62	1733837.66	373612.38	39°31'19.0116"N	80°26'36.6993"W	2088.57	252.657	10.00	8.08	6.13	Marcellus
8402.00	78.070	329.440	7697.46	6351.46	514.48	-616.71	-1997.12	1733834.16	373618.25	39°31'19.0693"N	80°26'36.7447"W	2090.17	252.839	10.00	8.15	5.92	
8496.00	83.370	331.960	7712.62	6366.62	607.15	-536.84	-2042.50	1733788.79	373699.12	39°31'19.8639"N	80°26'37.3346"W	2111.61	255.300	6.22	5.64	2.67	
8591.00	84.580	335.940	7722.59	6376.59	701.19	-450.98	-2083.98	1733747.30	373783.98	39°31'20.6982"N	80°26'37.8753"W	2132.22	257.789	4.37	1.27	4.20	
8686.00	88.930	336.290	7727.97	6381.97	795.20	-364.28	-2122.37	1733708.91	373870.68	39°31'21.5512"N	80°26'38.3789"W	2153.41	260.261	4.59	4.58	0.37	
8780.00	89.630	335.470	7729.15	6383.15	888.43	-278.49	-2160.78	1733670.50	373956.47	39°31'22.3950"N	80°26'38.8785"W	2178.66	262.656	1.15	0.74	-0.87	Landing Point
8876.00	89.970	335.460	7729.49	6383.49	983.74	-191.16	-2200.65	1733630.64	374043.80	39°31'23.2540"N	80°26'39.3989"W	2208.93	265.035	0.35	0.39	-0.01	
8971.00	89.640	335.870	7729.81	6383.81	1078.04	-104.67	-2239.95	1733591.34	374130.29	39°31'24.1047"N	80°26'39.9120"W	2242.39	267.325	0.41	-0.35	0.22	
9066.00	89.640	335.650	7730.41	6384.41	1172.31	-18.12	-2279.10	1733552.19	374216.84	39°31'24.9561"N	80°26'40.4233"W	2279.17	269.545	0.02	0.00	-0.02	
9161.00	89.450	335.740	7731.16	6385.16	1266.58	68.46	-2318.20	1733513.09	374303.42	39°31'25.8077"N	80°26'40.9339"W	2319.21	271.692	0.22	-0.20	0.09	
9256.00	89.150	334.570	7732.32	6386.32	1360.95	154.66	-2358.11	1733473.17	374389.62	39°31'26.6555"N	80°26'41.4548"W	2363.18	273.752	1.27	-0.32	-1.23	
9351.00	89.240	335.050	7733.66	6387.66	1455.38	240.62	-2398.54	1733432.74	374475.58	39°31'27.5009"N	80°26'41.9822"W	2410.58	275.729	0.51	0.09	0.51	
9446.00	89.050	335.140	7735.07	6389.07	1549.76	325.77	-2438.54	1733392.74	374561.73	39°31'28.3482"N	80°26'42.5043"W	2460.34	277.832	0.22	-0.20	0.09	
9542.00	89.980	337.150	7735.89	6389.89	1644.91	414.56	-2477.36	1733353.92	374649.52	39°31'29.2118"N	80°26'43.0114"W	2511.81	279.500	2.31	0.97	2.09	
9637.00	89.550	336.170	7736.28	6390.28	1738.97	501.79	-2515.00	1733316.29	374736.75	39°31'30.0700"N	80°26'43.5035"W	2564.57	281.283	1.13	-0.49	-1.03	
9732.00	89.180	335.420	7737.33	6391.33	1833.21	588.43	-2553.85	1733277.34	374823.39	39°31'30.9222"N	80°26'44.0121"W	2620.86	282.975	0.88	-0.39	-0.79	
9827.00	90.960	336.830	7737.21	6391.21	1927.39	675.30	-2592.40	1733238.69	374910.25	39°31'31.7768"N	80°26'44.5144"W	2678.91	284.801	2.39	1.87	1.48	
9922.00	96.870	335.850	7737.36	6391.35	2021.53	762.24	-2630.57	1733200.62	374997.20	39°31'32.6321"N	80°26'45.0145"W	2738.87	286.153	2.53	-2.20	-1.24	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [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]	Comments
10017.00	88.530	334.150	7739.51	6393.51	2115.93	848.24	-2670.96	1733160.33	375083.20	39°31'33.4779"N	80°26'45.5402"W	2802.41	287.619	1.62	-0.36	-1.58	
10112.00	88.560	334.420	7741.92	6395.92	2210.43	933.81	-2712.16	1733119.12	375168.76	39°31'34.3192"N	80°26'46.0776"W	2868.42	288.999	0.29	0.03	0.28	
10207.00	88.960	334.320	7743.98	6397.98	2304.93	1019.44	-2753.25	1733078.04	375254.40	39°31'35.1613"N	80°26'46.6134"W	2935.92	290.318	0.43	0.42	-0.11	
10302.00	89.640	334.840	7745.14	6399.14	2399.40	1105.23	-2794.02	1733037.26	375340.19	39°31'36.0050"N	80°26'47.1453"W	3004.68	291.582	0.90	0.72	0.55	
10397.00	89.450	334.630	7745.89	6399.89	2493.85	1191.14	-2834.57	1732996.72	375426.10	39°31'36.8488"N	80°26'47.6743"W	3074.67	292.793	0.30	-0.27	-0.22	
10493.00	89.520	333.660	7746.76	6400.76	2589.40	1277.53	-2876.43	1732954.86	375512.49	39°31'37.6993"N	80°26'48.2201"W	3147.37	293.948	1.01	0.07	-1.01	
10588.00	89.730	333.450	7747.38	6401.38	2684.04	1362.59	-2918.74	1732912.55	375597.54	39°31'38.5355"N	80°26'48.7715"W	3221.13	295.025	0.31	0.22	-0.22	
10683.00	89.640	334.480	7747.90	6401.90	2778.62	1447.84	-2960.43	1732870.85	375682.90	39°31'39.3748"N	80°26'49.3151"W	3295.56	296.063	1.09	-0.09	1.08	
10778.00	89.790	334.590	7748.37	6402.37	2873.10	1533.71	-3001.28	1732830.01	375768.67	39°31'40.2182"N	80°26'49.8479"W	3370.45	297.068	0.20	0.16	0.12	
10873.00	89.670	334.410	7748.82	6402.82	2967.90	1619.46	-3042.18	1732789.11	375854.42	39°31'41.0614"N	80°26'50.3813"W	3446.37	298.028	0.23	-0.13	-0.19	
10968.00	90.740	334.940	7748.48	6402.48	3062.06	1705.33	-3082.81	1732748.48	375940.28	39°31'41.9058"N	80°26'50.9115"W	3523.05	298.950	1.28	1.13	0.58	
11063.00	90.160	334.750	7747.73	6401.73	3156.49	1791.31	-3123.19	1732708.10	376026.27	39°31'42.7515"N	80°26'51.4384"W	3600.43	299.837	0.64	-0.61	-0.20	
11158.00	89.730	334.610	7747.83	6401.83	3250.96	1877.19	-3163.82	1732667.47	376112.14	39°31'43.5959"N	80°26'51.9685"W	3678.80	300.682	0.48	-0.45	-0.15	
11254.00	89.700	334.680	7748.30	6402.30	3346.42	1963.94	-3204.93	1732626.36	376198.89	39°31'44.4490"N	80°26'52.5048"W	3758.81	301.499	0.08	-0.03	0.07	
11348.00	89.640	334.370	7748.84	6402.84	3439.91	2048.80	-3245.36	1732585.93	376283.75	39°31'45.2835"N	80°26'53.0322"W	3837.96	302.264	0.34	-0.06	-0.32	
11444.00	88.700	334.340	7749.40	6403.40	3535.43	2135.34	-3286.91	1732544.38	376370.30	39°31'46.1345"N	80°26'53.5741"W	3919.62	303.010	0.07	0.06	-0.03	
11538.00	90.010	334.740	7749.64	6403.64	3628.92	2220.21	-3327.32	1732503.97	376455.17	39°31'46.9691"N	80°26'54.1012"W	4000.04	303.714	0.54	0.33	0.43	
11633.00	89.880	334.560	7749.73	6403.73	3723.39	2306.06	-3367.99	1732463.30	376541.02	39°31'47.8134"N	80°26'54.6319"W	4081.82	304.399	0.23	-0.14	-0.19	
11729.00	89.700	334.420	7750.08	6404.08	3818.88	2392.70	-3409.33	1732421.95	376627.66	39°31'48.6653"N	80°26'55.1712"W	4165.16	305.062	0.24	-0.19	-0.15	
11824.00	90.010	334.710	7750.32	6404.32	3913.36	2478.48	-3450.13	1732381.15	376713.45	39°31'49.5080"N	80°26'55.7035"W	4248.00	305.693	0.45	0.33	0.31	
11919.00	89.580	334.370	7750.66	6404.66	4007.85	2564.27	-3490.97	1732340.31	376799.22	39°31'50.3524"N	80°26'56.2362"W	4331.55	306.299	0.58	-0.45	-0.38	
12014.00	89.980	334.550	7751.02	6405.02	4102.35	2649.98	-3531.93	1732299.36	376884.94	39°31'51.1953"N	80°26'56.7705"W	4415.53	306.881	0.48	0.42	0.19	
12109.00	89.640	334.420	7751.34	6405.34	4196.85	2735.72	-3572.85	1732258.44	376970.67	39°31'52.0384"N	80°26'57.3043"W	4499.94	307.441	0.38	-0.36	-0.14	
12204.00	89.820	334.470	7751.79	6405.79	4291.35	2821.42	-3613.83	1732217.46	377056.38	39°31'52.8812"N	80°26'57.8389"W	4584.78	307.980	0.20	0.19	0.05	
12299.00	89.760	334.510	7752.13	6406.13	4385.85	2907.16	-3654.74	1732176.54	377142.12	39°31'53.7243"N	80°26'58.3726"W	4669.98	308.500	0.08	-0.06	0.04	
12394.00	89.760	334.770	7752.53	6406.53	4480.32	2993.01	-3695.43	1732135.85	377227.96	39°31'54.5685"N	80°26'58.9035"W	4755.45	309.005	0.27	0.00	0.27	
12489.00	89.790	334.450	7752.91	6406.91	4574.79	3078.83	-3736.17	1732095.12	377313.76	39°31'55.4124"N	80°26'59.4349"W	4841.29	309.491	0.34	0.03	-0.34	
12518.68†	89.846	334.548	7753.00	6407.00	4604.31	3105.62	-3748.94	1732082.34	377340.57	39°31'55.6758"N	80°26'59.6016"W	4868.21	309.638	0.38	0.18	0.33	Onondaga
12585.00	89.970	334.770	7753.11	6407.11	4670.26	3165.56	-3777.33	1732053.96	377400.51	39°31'56.2653"N	80°26'59.9720"W	4928.38	309.964	0.38	0.19	0.33	
12680.00	89.910	334.410	7753.21	6407.21	4764.74	3251.37	-3818.09	1732013.19	377486.32	39°31'57.1091"N	80°27'00.5038"W	5014.90	310.417	0.38	0.08	-0.38	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [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]	Comments
12775.00	89.670	334.120	7753.55	6407.55	4859.28	3336.94	-3859.34	1731971.95	377571.90	39°31'57.9506"N	80°27'1.0418"W	5101.93	310.848	0.40	-0.25	-0.31	
12870.00	89.640	334.760	7754.13	6408.13	4953.78	3422.64	-3900.33	1731930.96	377657.60	39°31'58.7933"N	80°27'1.5765"W	5189.13	311.268	0.67	-0.03	0.67	
12965.00	89.580	334.770	7754.77	6408.77	5048.22	3508.57	-3940.83	1731890.46	377743.53	39°31'59.6383"N	80°27'2.1050"W	5276.38	311.679	0.06	-0.06	0.01	
13059.00	89.790	334.540	7755.29	6409.29	5141.70	3593.53	-3981.07	1731850.22	377828.48	39°32'0.4737"N	80°27'2.6300"W	5363.05	312.071	0.33	0.22	-0.24	
13154.00	89.780	334.560	7755.66	6409.66	5235.15	3679.30	-4021.90	1731809.35	377914.25	39°32'1.3172"N	80°27'3.1827"W	5450.96	312.453	0.03	-0.03	0.04	
13249.00	89.360	334.180	7756.39	6410.39	5330.70	3764.95	-4063.00	1731768.29	377999.90	39°32'2.1594"N	80°27'3.6988"W	5539.20	312.820	0.57	-0.42	-0.39	
13344.00	90.040	334.280	7756.89	6410.89	5425.24	3850.50	-4104.30	1731726.99	378085.45	39°32'3.0006"N	80°27'4.2375"W	5627.75	313.173	0.72	0.72	0.11	
13439.00	89.880	334.600	7756.96	6410.96	5519.74	3936.20	-4145.29	1731686.00	378171.15	39°32'3.8433"N	80°27'4.7723"W	5716.39	313.518	0.38	-0.17	0.34	
13534.00	89.850	334.760	7757.18	6411.18	5614.21	4022.07	-4185.92	1731645.37	378257.03	39°32'4.6878"N	80°27'5.3024"W	5805.08	313.856	0.17	-0.03	0.17	
13629.00	89.730	334.580	7757.53	6411.53	5708.67	4107.94	-4226.56	1731604.73	378342.89	39°32'5.5322"N	80°27'5.8328"W	5893.98	314.185	0.23	-0.13	-0.19	
13724.00	89.510	334.800	7758.18	6412.18	5803.13	4193.82	-4267.17	1731564.12	378428.77	39°32'6.3767"N	80°27'6.3627"W	5983.05	314.503	0.33	-0.23	0.23	
13819.00	89.420	334.290	7759.05	6413.05	5897.61	4279.59	-4308.00	1731523.29	378514.54	39°32'7.2201"N	80°27'6.8954"W	6072.38	314.810	0.55	-0.09	-0.54	
13914.00	89.910	334.560	7759.60	6413.60	5992.12	4365.28	-4349.01	1731482.28	378600.23	39°32'8.0627"N	80°27'7.4304"W	6161.95	315.107	0.59	0.52	0.28	
14009.00	89.510	334.740	7760.08	6414.08	6086.59	4451.13	-4389.69	1731441.60	378686.09	39°32'8.9070"N	80°27'7.9612"W	6251.55	315.398	0.46	-0.42	0.19	
14104.00	90.070	334.810	7760.43	6414.43	6181.03	4537.07	-4430.17	1731401.12	378772.03	39°32'9.7521"N	80°27'8.4886"W	6341.25	315.683	0.58	0.58	0.07	
14199.00	89.450	334.510	7760.83	6414.83	6275.49	4622.97	-4470.76	1731360.53	378857.92	39°32'10.5968"N	80°27'9.0192"W	6431.13	315.959	0.69	-0.65	-0.21	
14294.00	89.760	335.590	7761.48	6415.48	6369.87	4709.14	-4510.74	1731320.54	378944.09	39°32'11.4442"N	80°27'9.5412"W	6520.95	316.233	1.09	0.33	1.04	
14389.00	89.730	335.450	7761.91	6415.91	6464.18	4795.60	-4550.10	1731281.19	379030.55	39°32'12.2946"N	80°27'10.0553"W	6610.69	316.505	0.16	-0.03	-0.16	
14483.00	90.040	335.850	7762.09	6416.09	6557.46	4881.24	-4588.86	1731242.43	379116.19	39°32'13.1369"N	80°27'10.5615"W	6699.56	316.768	0.54	0.33	0.43	
14579.00	90.010	335.630	7762.06	6416.06	6652.72	4968.76	-4628.30	1731202.99	379203.71	39°32'13.9978"N	80°27'11.0768"W	6790.42	317.032	0.23	-0.03	-0.23	
14673.00	89.940	335.640	7762.09	6416.09	6746.01	5054.39	-4667.08	1731164.21	379289.34	39°32'14.8400"N	80°27'11.5834"W	6879.57	317.281	0.08	-0.07	0.01	
14768.00	90.010	335.600	7762.13	6416.13	6840.29	5140.92	-4706.30	1731124.99	379375.87	39°32'15.6911"N	80°27'12.0956"W	6969.81	317.527	0.08	0.07	-0.04	
14863.00	89.970	335.940	7762.15	6416.15	6934.55	5227.55	-4745.29	1731086.00	379462.50	39°32'16.5432"N	80°27'12.6050"W	7060.10	317.769	0.36	-0.04	0.36	
14958.00	90.040	335.950	7762.14	6416.14	7028.77	5314.30	-4784.01	1731047.28	379549.25	39°32'17.3965"N	80°27'13.1110"W	7150.42	318.006	0.07	0.07	0.01	
15053.00	90.160	335.790	7761.98	6415.98	7123.00	5401.00	-4822.85	1731008.44	379635.84	39°32'18.2493"N	80°27'13.6185"W	7240.90	318.237	0.21	0.13	-0.17	
15148.00	89.970	335.710	7761.87	6415.87	7217.26	5487.61	-4861.86	1730969.43	379722.56	39°32'19.1013"N	80°27'14.1282"W	7331.55	318.460	0.22	-0.20	-0.08	
15243.00	90.000	335.770	7761.89	6415.89	7311.52	5574.22	-4900.90	1730930.39	379809.17	39°32'19.9532"N	80°27'14.6382"W	7422.32	318.678	0.07	0.03	0.06	
15338.00	89.910	336.020	7761.97	6415.97	7405.75	5660.94	-4939.70	1730891.59	379895.89	39°32'20.8062"N	80°27'15.1452"W	7513.11	318.892	0.28	-0.09	0.26	
15433.00	90.070	335.830	7761.99	6415.99	7499.97	5747.68	-4978.45	1730852.84	379982.62	39°32'21.6593"N	80°27'15.6516"W	7603.99	319.102	0.26	0.17	-0.20	
15528.00	90.130	336.030	7761.82	6415.82	7594.19	5834.41	-5017.20	1730814.09	380069.36	39°32'22.5126"N	80°27'16.1578"W	7694.98	319.307	0.22	0.09	0.21	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	TVDSS (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)	Comments
15623.00	89.970	335.910	7761.74	6415.74	7688.41	5921.18	-5055.88	1730775.41	380156.13	39°32'23.3660"N	80°27'16.6634"W	7786.03	319.507	0.21	-0.17	-0.13	
15718.00	89.700	335.730	7762.01	6416.01	7782.65	6007.85	-5094.79	1730736.50	380242.79	39°32'24.2185"N	80°27'17.1719"W	7877.25	319.701	0.34	-0.28	-0.19	
15813.00	90.100	335.910	7762.18	6416.18	7876.89	6094.51	-5133.71	1730697.58	380329.46	39°32'25.0709"N	80°27'17.6803"W	7968.56	319.891	0.46	0.43	0.19	
15908.00	89.910	335.770	7762.17	6416.17	7971.14	6181.19	-5172.59	1730658.70	380416.14	39°32'25.9235"N	80°27'18.1884"W	8059.95	320.076	0.25	-0.20	-0.15	
16003.00	89.880	335.530	7762.34	6416.34	8066.41	6267.74	-5211.78	1730619.53	380502.89	39°32'26.7748"N	80°27'18.7001"W	8151.50	320.266	0.25	-0.05	-0.25	
16098.00	90.130	336.040	7762.33	6416.33	8159.67	6354.38	-5250.72	1730580.67	380589.33	39°32'27.6270"N	80°27'19.2092"W	8243.07	320.433	0.60	0.26	0.54	
16193.00	90.100	336.020	7762.14	6416.14	8253.87	6441.19	-5289.32	1730541.97	380676.13	39°32'28.4809"N	80°27'19.7136"W	8334.61	320.608	0.04	-0.03	-0.02	
16288.00	89.880	336.120	7762.16	6416.16	8348.06	6528.02	-5327.85	1730503.44	380762.97	39°32'29.3350"N	80°27'20.2173"W	8426.21	320.780	0.25	-0.23	0.11	
16383.00	89.760	334.610	7762.46	6416.46	8442.39	6614.37	-5367.45	1730463.84	380849.32	39°32'30.1843"N	80°27'20.7344"W	8518.18	320.941	1.59	-0.13	-1.59	
16478.00	89.940	334.930	7762.71	6416.71	8536.84	6700.30	-5407.96	1730423.33	380935.24	39°32'31.0253"N	80°27'21.2633"W	8610.46	321.092	0.36	0.19	0.31	
16572.00	89.910	334.590	7762.83	6416.83	8630.30	6785.31	-5448.07	1730383.22	381020.26	39°32'31.8853"N	80°27'21.7867"W	8701.83	321.238	0.33	-0.03	-0.33	
16668.00	89.820	334.050	7763.06	6417.06	8725.82	6871.83	-5489.67	1730341.62	381106.77	39°32'32.7160"N	80°27'22.3295"W	8795.37	321.380	0.57	-0.08	-0.56	
16764.00	90.340	334.660	7762.82	6416.82	8821.33	6958.38	-5531.20	1730300.09	381193.32	39°32'33.5670"N	80°27'22.8714"W	8888.94	321.519	0.85	0.54	0.66	
16858.00	90.130	334.870	7762.54	6416.54	8914.78	7043.41	-5571.26	1730260.03	381278.36	39°32'34.4032"N	80°27'23.3943"W	8980.46	321.656	0.30	-0.22	0.20	
16953.00	90.100	334.800	7762.36	6416.36	9009.22	7129.45	-5611.66	1730219.63	381364.34	39°32'35.2458"N	80°27'23.9216"W	9072.98	321.793	0.58	-0.03	-0.07	
17048.00	89.940	334.530	7762.31	6416.31	9103.69	7215.26	-5652.31	1730178.95	381450.21	39°32'36.0931"N	80°27'24.4522"W	9165.62	321.925	0.33	-0.17	-0.28	
17143.00	90.370	334.730	7762.06	6416.06	9198.16	7301.10	-5693.01	1730138.28	381536.04	39°32'36.9372"N	80°27'24.9835"W	9258.32	322.055	0.50	0.48	0.21	
17238.00	90.280	334.510	7761.52	6415.52	9292.63	7386.93	-5733.73	1730097.56	381621.87	39°32'37.7812"N	80°27'25.5149"W	9351.06	322.181	0.25	-0.09	-0.23	
17333.00	90.340	334.830	7761.00	6415.00	9387.09	7472.79	-5774.38	1730056.92	381707.74	39°32'38.6255"N	80°27'26.0454"W	9443.84	322.306	0.34	0.06	0.34	
17428.00	90.460	334.750	7760.34	6414.34	9481.54	7558.74	-5814.84	1730016.46	381793.69	39°32'39.4707"N	80°27'26.5796"W	9536.61	322.429	0.15	0.13	-0.06	
17523.00	90.590	334.560	7759.47	6413.47	9576.00	7644.59	-5855.50	1729975.79	381879.54	39°32'40.3149"N	80°27'27.1043"W	9629.47	322.549	0.24	0.14	-0.20	
17617.00	90.830	334.770	7758.30	6412.30	9669.47	7729.55	-5895.72	1729935.57	381964.49	39°32'41.1503"N	80°27'27.6293"W	9721.39	322.665	0.34	0.26	0.22	
17712.00	90.890	334.990	7756.88	6410.88	9763.88	7815.55	-5936.05	1729895.24	382050.50	39°32'41.9961"N	80°27'28.1557"W	9814.25	322.783	0.24	0.06	0.23	
17807.00	90.030	334.880	7756.12	6410.12	9858.31	7901.53	-5976.44	1729854.85	382136.48	39°32'42.8416"N	80°27'28.6831"W	9907.17	322.897	0.96	-0.91	-0.33	
17901.00	90.090	336.050	7756.02	6410.02	9951.75	7986.63	-6016.37	1729814.62	382221.57	39°32'43.6784"N	80°27'29.2043"W	9999.15	323.009	0.40	0.08	0.39	
18090.00	89.540	334.640	7756.63	6410.63	10139.62	8157.70	-6096.71	1729734.58	382392.65	39°32'45.3607"N	80°27'30.2531"W	10184.20	323.227	0.36	-0.29	-0.22	
18185.00	89.080	334.580	7757.77	6411.77	10234.09	8243.52	-6137.44	1729693.85	382478.46	39°32'46.2046"N	80°27'30.7848"W	10277.34	323.332	0.49	-0.48	-0.06	
18280.00	89.450	335.510	7758.99	6412.99	10328.48	8329.64	-6177.52	1729653.78	382564.59	39°32'47.0515"N	80°27'31.3081"W	10370.37	323.438	1.05	0.38	0.98	
18375.00	88.860	334.520	7760.39	6414.39	10422.87	8415.74	-6217.64	1729613.66	382650.69	39°32'47.8982"N	80°27'31.8320"W	10463.45	323.543	1.21	-0.62	-1.04	
18469.00	89.660	334.540	7761.61	6415.61	10516.38	8500.60	-6258.06	1729573.24	382735.54	39°32'48.7326"N	80°27'32.3595"W	10555.73	323.640	0.85	0.85	0.02	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [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]	Comments
18564.00	89.420	334.710	7762.37	6416.37	10610.83	8586.43	-6298.77	1729532.53	382821.37	39°32'49.5766"N	80°27'32.8909"W	10649.00	323.737	0.31	-0.25	0.18	
18659.00	89.510	334.610	7763.25	6417.25	10705.29	8672.29	-6339.42	1729491.87	382907.23	39°32'50.4209"N	80°27'33.4216"W	10742.29	323.833	0.14	0.09	-0.11	
18754.00	89.850	334.540	7763.79	6417.79	10799.77	8758.08	-6380.21	1729451.08	382993.03	39°32'51.2646"N	80°27'33.9540"W	10835.64	323.927	0.37	0.36	-0.07	
18848.00	90.220	334.600	7763.73	6417.73	10893.26	8842.98	-6420.57	1729410.72	383077.92	39°32'52.0993"N	80°27'34.4808"W	10928.04	324.018	0.40	0.39	0.06	
18943.00	90.680	335.320	7762.98	6416.98	10987.67	8929.04	-6460.78	1729370.51	383163.99	39°32'52.9457"N	80°27'35.0038"W	11021.52	324.112	0.90	0.48	0.78	
19037.00	90.590	335.010	7761.94	6415.94	11081.05	9014.35	-6500.26	1729331.03	383249.29	39°32'53.7846"N	80°27'35.5214"W	11113.59	324.205	0.34	-0.10	-0.33	
19132.00	90.490	335.020	7761.04	6415.04	11175.45	9100.45	-6540.38	1729290.91	383335.39	39°32'54.6314"N	80°27'36.0454"W	11206.91	324.296	0.11	-0.11	0.01	
19226.00	90.620	334.590	7760.13	6414.13	11268.09	9185.50	-6580.40	1729250.90	383420.45	39°32'55.4677"N	80°27'36.5678"W	11299.34	324.383	0.48	0.14	-0.46	
19321.00	90.310	334.850	7759.36	6413.36	11363.34	9271.40	-6620.96	1729210.33	383506.35	39°32'56.3124"N	80°27'37.0974"W	11392.81	324.468	0.43	-0.33	0.27	
19416.00	90.080	334.620	7759.06	6413.06	11457.80	9357.32	-6661.51	1729169.78	383592.26	39°32'57.1572"N	80°27'37.8267"W	11486.30	324.553	0.36	0.26	-0.24	
19511.00	90.090	334.200	7758.93	6412.93	11552.31	9443.00	-6702.54	1729128.75	383677.94	39°32'57.9997"N	80°27'38.1622"W	11579.91	324.633	0.44	0.03	-0.44	
19605.00	90.030	334.400	7758.83	6412.83	11645.84	9527.70	-6743.31	1729087.99	383762.64	39°32'58.8325"N	80°27'38.6941"W	11672.58	324.711	0.22	-0.06	0.21	
19700.00	90.030	334.670	7758.78	6412.78	11740.33	9613.47	-6784.15	1729047.14	383848.41	39°32'59.6759"N	80°27'39.2273"W	11766.20	324.790	0.28	0.00	0.28	
19795.00	90.150	334.760	7758.63	6412.63	11834.79	9699.37	-6824.73	1729006.56	383934.31	39°33'00.5206"N	80°27'39.7570"W	11859.79	324.869	0.16	0.13	0.09	
19890.00	89.780	334.450	7758.69	6412.69	11929.26	9785.19	-6865.47	1728965.82	384020.13	39°33'01.3644"N	80°27'40.2888"W	11953.43	324.948	0.61	-0.39	-0.35	
19984.00	90.050	334.660	7758.82	6412.82	12022.75	9870.07	-6905.86	1728925.44	384105.01	39°33'02.1991"N	80°27'40.8160"W	12046.13	325.020	0.37	0.30	0.22	
20079.00	89.600	334.850	7759.11	6413.11	12117.20	9955.99	-6946.37	1728884.92	384190.93	39°33'03.0440"N	80°27'41.3450"W	12139.77	325.096	0.52	-0.48	0.20	
20174.00	89.660	335.260	7759.72	6413.72	12211.60	10042.13	-6986.44	1728844.85	384277.07	39°33'03.8911"N	80°27'41.8682"W	12233.34	325.173	0.44	0.06	0.43	
20269.00	90.770	335.170	7759.36	6413.36	12305.96	10128.38	-7026.26	1728805.03	384363.32	39°33'04.7393"N	80°27'42.3884"W	12326.90	325.250	1.17	1.17	-0.09	
20364.00	90.370	334.840	7758.42	6412.42	12400.36	10214.46	-7066.40	1728764.89	384449.42	39°33'05.5807"N	80°27'42.9120"W	12420.53	325.304	0.55	0.42	-0.35	
20459.00	89.600	334.830	7758.44	6412.44	12494.80	10300.46	-7106.80	1728724.49	384535.40	39°33'06.4315"N	80°27'43.4401"W	12514.23	325.396	0.81	-0.81	-0.01	
20553.00	89.630	334.560	7759.07	6413.07	12588.26	10385.44	-7146.98	1728684.32	384620.38	39°33'07.2671"N	80°27'43.9646"W	12607.01	325.465	0.29	0.03	-0.29	
20648.00	89.630	334.840	7759.69	6413.69	12682.72	10471.32	-7187.58	1728643.72	384706.26	39°33'08.1116"N	80°27'44.4948"W	12700.78	325.534	0.29	0.00	0.29	
20743.00	89.480	334.700	7760.43	6414.43	12777.17	10557.26	-7228.07	1728603.23	384792.20	39°33'08.9567"N	80°27'45.0233"W	12794.56	325.602	0.22	-0.16	-0.16	
20838.00	89.880	334.720	7760.96	6414.96	12871.62	10643.15	-7268.63	1728562.64	384878.09	39°33'09.8013"N	80°27'45.5332"W	12888.37	325.669	0.42	0.42	0.02	
20933.00	90.000	333.240	7761.06	6415.06	12966.20	10728.52	-7310.33	1728520.97	384963.46	39°33'10.6406"N	80°27'46.0869"W	12982.37	325.730	1.56	0.13	-1.56	
21028.00	89.790	335.290	7761.23	6415.23	13060.73	10814.09	-7351.57	1728479.72	385049.03	39°33'11.4819"N	80°27'46.6352"W	13076.32	325.792	2.17	-0.22	2.16	
21123.00	89.720	335.380	7761.64	6415.64	13155.07	10900.42	-7391.22	1728440.08	385135.36	39°33'12.3310"N	80°27'47.1531"W	13170.02	325.860	0.12	-0.07	0.09	
21218.00	89.820	335.700	7762.02	6416.02	13249.37	10986.90	-7430.55	1728400.74	385221.83	39°33'13.1815"N	80°27'47.6671"W	13263.67	325.929	0.35	0.11	0.34	
21313.00	90.000	335.870	7762.17	6416.17	13343.64	11073.47	-7469.67	1728361.83	385308.41	39°33'14.0329"N	80°27'48.1784"W	13357.31	325.998	0.19	0.19	-0.03	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations)

MD (ft)	Inclination (°)	Azimuth (°)	TVD (ft)	TVDSS (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)	Comments
21408.00	89.910	335.990	7762.24	6416.24	13437.89	11160.14	-7508.57	1728322.73	385395.08	39°33'14.8854"N	80°27'48.6868"W	13450.92	326.067	0.35	-0.09	0.34	
21504.00	89.880	335.820	7762.42	6416.42	13533.10	11247.78	-7547.76	1728283.54	385482.71	39°33'15.7474"N	80°27'49.1992"W	13545.52	326.137	0.18	-0.03	-0.18	
21599.00	89.750	335.730	7762.72	6416.72	13627.36	11334.41	-7586.74	1728244.56	385569.35	39°33'16.5995"N	80°27'49.7087"W	13639.19	326.203	0.17	-0.14	-0.09	
21693.00	90.310	335.850	7762.67	6416.67	13720.62	11420.14	-7625.28	1728206.01	385655.08	39°33'17.4427"N	80°27'50.2126"W	13731.88	326.269	0.61	0.60	0.13	
21788.00	90.150	335.890	7762.29	6416.29	13814.85	11506.84	-7664.42	1728167.17	385741.78	39°33'18.2954"N	80°27'50.7203"W	13825.58	326.334	0.17	-0.17	0.04	
21883.00	90.220	335.910	7761.99	6415.99	13909.08	11593.56	-7702.91	1728128.38	385828.50	39°33'19.1484"N	80°27'51.2274"W	13919.25	326.399	0.08	0.07	0.02	
21977.00	90.150	335.540	7761.68	6415.68	14002.35	11679.25	-7741.56	1728089.74	385914.18	39°33'19.9912"N	80°27'51.7325"W	14012.01	326.462	0.40	-0.07	-0.39	
22072.00	90.120	335.900	7761.46	6415.46	14096.61	11765.84	-7780.62	1728050.67	386000.78	39°33'20.8429"N	80°27'52.2431"W	14105.78	326.524	0.38	-0.03	0.38	
22167.00	89.940	335.920	7761.41	6415.41	14190.84	11852.57	-7819.40	1728011.90	386087.51	39°33'21.6959"N	80°27'52.7501"W	14199.52	326.586	0.19	-0.19	0.02	
22262.00	90.150	336.030	7761.34	6415.34	14285.05	11939.34	-7858.08	1727973.22	386174.28	39°33'22.5494"N	80°27'53.2557"W	14289.26	326.642	0.25	0.22	0.12	
22357.00	90.220	335.580	7761.03	6415.03	14379.30	12025.99	-7897.01	1727934.29	386260.93	39°33'23.4017"N	80°27'53.7647"W	14387.05	326.709	0.48	0.07	-0.47	
22452.00	89.600	335.830	7761.18	6415.18	14473.57	12112.58	-7936.10	1727895.20	386347.52	39°33'24.2533"N	80°27'54.2756"W	14480.89	326.767	0.70	-0.65	0.26	
22546.00	89.660	333.720	7761.78	6415.78	14567.01	12197.61	-7976.15	1727855.14	386432.55	39°33'25.0894"N	80°27'54.7987"W	14573.97	326.819	2.25	0.08	-2.24	
22641.00	89.750	334.020	7762.27	6416.27	14661.61	12282.90	-8017.99	1727813.30	386517.83	39°33'25.9279"N	80°27'55.3445"W	14668.28	326.864	0.33	0.09	0.32	
22736.00	89.590	335.790	7762.74	6416.74	14756.03	12368.93	-8056.28	1727773.01	386603.86	39°33'26.7735"N	80°27'55.8707"W	14762.33	326.918	1.86	-0.09	1.86	
22831.00	89.850	335.740	7763.12	6417.12	14850.28	12455.55	-8097.28	1727734.02	386690.49	39°33'27.6259"N	80°27'56.3805"W	14856.20	326.972	0.18	0.17	-0.05	
22927.00	90.000	335.930	7763.25	6417.25	14945.51	12543.14	-8136.58	1727694.72	386778.08	39°33'28.4873"N	80°27'56.8943"W	14951.06	327.029	0.25	0.16	0.20	
23021.00	89.910	336.720	7763.32	6417.32	15038.77	12628.90	-8175.07	1727656.23	386863.83	39°33'29.3308"N	80°27'57.3975"W	15043.96	327.084	0.24	-0.10	-0.22	
23116.00	89.850	335.830	7763.52	6417.52	15133.02	12716.53	-8214.05	1727617.24	386950.47	39°33'30.1829"N	80°27'57.9071"W	15137.88	327.138	0.13	-0.06	0.12	
23211.00	89.910	336.850	7763.72	6417.72	15227.28	12802.44	-8253.08	1727578.21	387037.08	39°33'31.0347"N	80°27'58.4173"W	15231.82	327.192	0.20	0.08	-0.19	
23306.00	89.940	336.130	7763.84	6417.84	15321.51	12888.85	-8291.89	1727539.41	387123.79	39°33'31.8876"N	80°27'58.9247"W	15325.73	327.245	0.51	0.03	0.51	
23402.00	89.850	335.880	7764.02	6418.02	15416.71	12976.58	-8330.93	1727500.37	387211.49	39°33'32.7502"N	80°27'59.4352"W	15420.62	327.300	0.28	-0.09	-0.26	
23497.00	89.790	334.530	7764.32	6418.32	15511.07	13062.80	-8370.77	1727460.53	387297.73	39°33'33.5983"N	80°27'59.9557"W	15514.72	327.348	1.42	-0.06	-1.42	
23592.00	89.820	334.510	7764.64	6418.64	15605.56	13148.56	-8411.64	1727419.66	387383.49	39°33'34.4416"N	80°28'0.4893"W	15608.98	327.391	0.04	0.03	-0.02	
23687.00	89.570	334.870	7764.31	6418.31	15700.03	13234.44	-8452.25	1727379.05	387469.37	39°33'35.2860"N	80°28'1.0195"W	15703.21	327.435	0.41	0.18	0.38	
23781.00	89.910	334.730	7764.91	6418.91	15793.47	13319.49	-8492.28	1727339.02	387554.42	39°33'36.1224"N	80°28'1.5423"W	15796.44	327.479	0.16	-0.06	-0.16	Deepest Point of Well
23876.00	90.120	334.760	7764.89	6418.89	15887.93	13405.41	-8532.81	1727298.49	387640.34	39°33'36.9672"N	80°28'2.0716"W	15890.68	327.522	0.22	0.22	0.03	
23972.00	90.120	334.880	7764.69	6418.69	15983.36	13492.29	-8573.65	1727257.65	387727.22	39°33'37.8215"N	80°28'2.6050"W	15985.91	327.566	0.12	0.00	0.12	
24068.00	90.340	334.920	7764.31	6418.31	16076.79	13577.41	-8613.53	1727217.77	387812.34	39°33'38.6586"N	80°28'3.1259"W	16079.15	327.608	0.24	0.23	0.04	
24161.00	90.370	334.940	7763.72	6417.72	16171.21	13663.48	-8653.78	1727177.52	387898.39	39°33'39.5047"N	80°28'3.6516"W	16173.37	327.652	0.04	0.03	0.02	



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

WELLPATH DATA (297 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	TVDSS [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]	Comments
24256.00	90.220	334.770	7763.23	6417.23	16265.64	13749.46	-8694.14	1727137.15	387984.39	39°33'40.3503"N	80°28'4.1789"W	16267.63	327.694	0.24	-0.16	-0.18	
24351.00	90.150	334.630	7762.92	6416.92	16360.10	13835.34	-8734.74	1727098.55	388070.28	39°33'41.1949"N	80°28'4.7090"W	16361.92	327.734	0.16	-0.07	-0.15	
24446.00	90.370	334.670	7762.49	6416.49	16454.56	13921.19	-8775.42	1727055.88	388156.13	39°33'42.0390"N	80°28'5.2402"W	16456.23	327.774	0.24	0.23	0.04	
24541.00	90.250	334.770	7761.98	6415.98	16549.02	14007.10	-8815.99	1727015.31	388242.03	39°33'42.8837"N	80°28'5.7700"W	16550.54	327.814	0.16	-0.13	0.11	
24636.00	90.220	334.550	7761.59	6415.59	16643.40	14092.95	-8856.54	1726974.65	388327.89	39°33'43.7278"N	80°28'5.3009"W	16644.86	327.853	0.23	-0.03	-0.22	
24730.00	90.490	334.780	7761.01	6415.01	16736.96	14177.91	-8896.87	1726934.43	388412.84	39°33'44.5633"N	80°28'6.8262"W	16738.20	327.891	0.38	0.29	0.24	
24826.00	90.460	335.020	7760.21	6414.21	16832.37	14264.84	-8937.59	1726893.71	388499.77	39°33'45.4181"N	80°28'7.3581"W	16833.49	327.931	0.25	-0.03	0.25	
24920.00	90.090	333.220	7759.76	6413.76	16925.93	14349.41	-8978.62	1726852.68	388584.34	39°33'46.2496"N	80°28'7.8936"W	16926.94	327.965	1.95	-0.39	-1.91	
25015.00	90.460	334.660	7759.30	6413.30	17020.51	14434.75	-9020.35	1726810.95	388669.68	39°33'47.0885"N	80°28'8.4382"W	17021.42	327.999	1.57	0.39	1.52	
25110.00	90.430	335.010	7758.57	6412.57	17114.64	14520.73	-9060.74	1726770.66	388755.66	39°33'47.9340"N	80°28'8.9658"W	17115.74	328.036	0.37	-0.03	0.37	
25205.00	90.120	334.780	7758.11	6412.11	17209.37	14606.75	-9101.05	1726730.25	388841.69	39°33'48.7799"N	80°28'9.4923"W	17210.07	328.074	0.41	-0.33	-0.24	
25299.00	90.310	334.770	7757.76	6411.76	17302.82	14691.79	-9141.11	1726690.19	388926.72	39°33'49.6160"N	80°28'10.0155"W	17303.43	328.110	0.20	0.20	-0.01	
25394.00	90.550	334.970	7757.04	6411.04	17397.25	14777.80	-9181.45	1726649.85	389012.73	39°33'50.4618"N	80°28'10.5425"W	17397.77	328.147	0.33	0.25	0.21	
25489.00	90.340	334.740	7756.31	6410.31	17491.68	14863.79	-9221.82	1726609.48	389098.72	39°33'51.3074"N	80°28'11.0698"W	17492.12	328.184	0.33	-0.22	-0.24	
25584.00	90.400	334.910	7755.69	6409.69	17586.11	14949.76	-9262.23	1726569.07	389184.69	39°33'52.1528"N	80°28'11.5976"W	17586.48	328.219	0.19	0.06	0.18	
25679.00	90.460	334.960	7754.98	6408.98	17680.53	15035.82	-9302.47	1726528.82	389270.75	39°33'52.9989"N	80°28'12.1233"W	17680.83	328.255	0.08	0.06	0.09	
25774.00	90.310	334.900	7754.34	6408.34	17774.95	15121.86	-9342.73	1726488.57	389356.79	39°33'53.8451"N	80°28'12.6492"W	17775.19	328.291	0.17	-0.16	-0.09	
25869.00	90.180	334.540	7753.94	6407.94	17869.40	15207.77	-9383.30	1726448.00	389442.69	39°33'54.6897"N	80°28'13.1790"W	17869.59	328.325	0.40	-0.14	-0.38	
25964.00	90.430	334.890	7753.43	6407.43	17963.86	15293.66	-9423.87	1726407.43	389528.59	39°33'55.5343"N	80°28'13.7090"W	17964.00	328.359	0.45	0.26	0.37	
26059.00	90.520	334.810	7752.84	6406.84	18058.29	15379.65	-9464.24	1726367.06	389614.58	39°33'56.3799"N	80°28'14.2363"W	18058.40	328.393	0.13	0.09	-0.08	
26154.00	90.830	335.010	7751.52	6405.52	18152.70	15465.69	-9504.52	1726326.77	389700.61	39°33'57.2258"N	80°28'14.7626"W	18152.78	328.427	0.39	0.33	0.21	
26249.00	90.920	334.980	7750.07	6404.07	18247.10	15551.77	-9544.68	1726286.62	389786.70	39°33'58.0724"N	80°28'15.2871"W	18247.15	328.461	0.10	0.09	-0.03	
26344.00	90.950	335.100	7748.52	6402.52	18341.49	15637.88	-9584.76	1726246.54	389872.81	39°33'58.9192"N	80°28'15.8108"W	18341.51	328.495	0.13	0.03	0.13	
26439.00	90.830	334.860	7747.05	6401.05	18435.90	15723.89	-9625.08	1726206.22	389958.82	39°33'59.7649"N	80°28'16.3376"W	18435.91	328.528	0.48	-0.13	-0.46	
26534.00	90.740	334.860	7745.74	6399.74	18530.34	15809.61	-9665.59	1726165.71	390044.74	39°34'0.6097"N	80°28'16.8667"W	18530.35	328.560	0.23	-0.09	0.21	
26614.00	90.710	334.810	7744.73	6398.73	18609.86	15882.21	-9699.60	1726131.69	390117.14	39°34'1.3217"N	80°28'17.3110"W	18609.86	328.587	0.07	-0.04	-0.06	Final Survey
26639.00†	90.710	334.810	7744.42	6398.42	18634.71	15904.83	-9710.24	1726121.06	390139.76	39°34'1.5441"N	80°28'17.4500"W	18634.71	328.595	0.00	0.00	0.00	Projection to TD @ 26639



Actual Wellpath Report

Carnegie 5H ST01 Proj: 26639'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 5H ST01
Field	Marion	API	47-049-02522
Facility	Carnegie Pad	Wellbore	Carnegie 5H ST01
Slot	Slot 05	Sidetrack from	Carnegie 5H Pilot Hole FINAL Proj: 8221' at 7026.00 MD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Carnegie 5H ST01 - BHL	7706.00	15905.12	-9711.56	1726119.74	390140.05	39°34'1.5468"N	80°28'17.4668"W	point
Carnegie 5H ST01 - LP	7706.00	-508.42	-2057.10	1733774.18	373726.54	39°31'20.1333"N	80°26'37.5246"W	point

WELLPATH COMPOSITION - Ref Wellbore: Carnegie 5H ST01 Ref Wellpath: Carnegie 5H ST01 Proj: 26639'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	2643.00	BH Generic gyro - northseeking (Standard)	01 Gyro	Carnegie 5H Pilot Hole	4/24/2024
2643.00	6685.00	OWSG MWD rev2 - Standard	02 SDI MWD	Carnegie 5H Pilot Hole	4/24/2024
6685.00	7026.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	03 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6742' - 8166')	Carnegie 5H Pilot Hole	4/28/2024
7026.00	26639.00	Custom OWSG MWD+IFR1+SAG+FDIR (Approximation)	04 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2"> (7072' - 26614')	Carnegie 5H ST01	5/2/2024

09/19/2025