



Actual Wellpath Report

Carnegie 19H Proj: 23521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

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	7/17/2024 at 1:15:21 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	132.08	27.90	1735852.98	374337.69	39°31'26.3885"N	80°26'11.0786"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 19)	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	354.62°



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WELLPATH DATA (279 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	140.570	0.00	-1346.00	0.00	0.00	0.00	1735852.98	374337.69	39°31'26.3885"N	80°26'11.0786"W	0.00	0.000	0.00	0.00	0.00	
28.00	0.000	140.570	28.00	-1318.00	0.00	0.00	0.00	1735852.98	374337.69	39°31'26.3885"N	80°26'11.0786"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.090	140.570	115.00	-1231.00	-0.06	-0.05	0.04	1735853.02	374337.64	39°31'26.3880"N	80°26'11.0781"W	0.07	140.570	0.10	0.10	0.0001	Gyro
165.00	0.030	153.520	165.00	-1181.00	-0.10	-0.09	0.07	1735853.05	374337.60	39°31'26.3876"N	80°26'11.0777"W	0.12	141.966	0.12	-0.12	25.90	
215.00	0.050	190.590	215.00	-1131.00	-0.13	-0.13	0.08	1735853.06	374337.56	39°31'26.3873"N	80°26'11.0776"W	0.15	149.297	0.06	0.04	74.14	
265.00	0.140	155.480	265.00	-1081.00	-0.21	-0.21	0.10	1735853.08	374337.48	39°31'26.3865"N	80°26'11.0773"W	0.23	154.600	0.21	0.18	-70.22	
315.00	0.230	199.800	315.00	-1031.00	-0.36	-0.36	0.09	1735853.07	374337.33	39°31'26.3850"N	80°26'11.0774"W	0.37	165.971	0.33	0.18	88.64	
365.00	0.170	134.980	365.00	-981.00	-0.51	-0.50	0.11	1735853.09	374337.19	39°31'26.3836"N	80°26'11.0772"W	0.51	167.945	0.44	-0.12	-129.64	
415.00	0.330	149.050	415.00	-931.00	-0.70	-0.68	0.23	1735853.21	374337.01	39°31'26.3819"N	80°26'11.0755"W	0.72	160.976	0.34	0.32	28.14	
465.00	0.320	145.620	465.00	-881.00	-0.95	-0.92	0.39	1735853.37	374336.77	39°31'26.3795"N	80°26'11.0736"W	0.99	157.129	0.04	-0.02	-6.86	
515.00	0.210	168.960	515.00	-831.00	-1.16	-1.12	0.48	1735853.46	374336.57	39°31'26.3775"N	80°26'11.0723"W	1.22	156.704	0.30	-0.22	46.68	
565.00	0.330	141.820	565.00	-781.00	-1.37	-1.32	0.59	1735853.57	374336.37	39°31'26.3755"N	80°26'11.0709"W	1.45	156.011	0.34	0.24	-54.28	
615.00	0.370	135.790	615.00	-731.00	-1.62	-1.55	0.79	1735853.77	374336.14	39°31'26.3733"N	80°26'11.0683"W	1.74	153.016	0.11	0.08	-12.06	
665.00	0.390	140.520	664.99	-681.01	-1.89	-1.80	1.01	1735853.99	374335.89	39°31'26.3708"N	80°26'11.0655"W	2.07	150.668	0.07	0.04	9.46	
715.00	0.230	186.040	714.99	-631.01	-2.13	-2.03	1.11	1735854.09	374335.66	39°31'26.3686"N	80°26'11.0642"W	2.32	151.363	0.56	-0.32	91.04	
765.00	0.220	151.580	764.99	-581.01	-2.31	-2.22	1.14	1735854.12	374335.47	39°31'26.3668"N	80°26'11.0637"W	2.49	152.684	0.27	-0.02	-68.92	
815.00	0.160	121.200	814.99	-531.01	-2.44	-2.34	1.25	1735854.23	374335.35	39°31'26.3656"N	80°26'11.0624"W	2.65	151.855	0.23	-0.12	-60.76	
865.00	0.290	143.400	864.99	-481.01	-2.59	-2.47	1.39	1735854.37	374335.22	39°31'26.3642"N	80°26'11.0606"W	2.84	150.760	0.31	0.26	44.40	
915.00	0.340	138.570	914.99	-431.01	-2.82	-2.69	1.56	1735854.54	374335.00	39°31'26.3621"N	80°26'11.0584"W	3.11	149.883	0.11	0.10	-9.66	
965.00	0.420	134.810	964.99	-381.01	-3.08	-2.93	1.79	1735854.77	374334.76	39°31'26.3598"N	80°26'11.0554"W	3.43	148.601	0.17	0.16	-7.52	
986.00	0.400	135.920	985.99	-360.01	-3.20	-3.03	1.89	1735854.87	374334.66	39°31'26.3587"N	80°26'11.0541"W	3.58	148.049	0.10	-0.10	5.29	
1144.00	0.640	123.500	1143.98	-202.02	-4.18	-3.92	3.01	1735855.99	374333.77	39°31'26.3501"N	80°26'11.0397"W	4.94	142.446	0.17	0.15	-7.86	02 SDI MWD
1186.00	0.810	127.290	1185.98	-160.02	-4.53	-4.23	3.44	1735856.42	374333.46	39°31'26.3471"N	80°26'11.0341"W	5.45	140.830	0.42	0.40	9.02	KOP
1228.00	1.120	116.460	1227.97	-118.03	-4.95	-4.59	4.05	1735857.03	374333.10	39°31'26.3436"N	80°26'11.0264"W	6.12	138.593	0.85	0.74	-25.79	
1270.00	1.530	108.260	1269.96	-76.04	-5.39	-4.95	4.95	1735857.93	374332.74	39°31'26.3401"N	80°26'11.0148"W	7.00	135.006	1.07	0.98	-19.52	
1313.00	2.010	104.150	1312.94	-33.06	-5.87	-5.31	6.22	1735859.20	374332.38	39°31'26.3367"N	80°26'10.9985"W	8.18	130.484	1.15	1.12	-9.56	
1355.00	2.580	98.670	1354.91	8.91	-6.35	-5.64	7.87	1735860.85	374332.05	39°31'26.3337"N	80°26'10.9774"W	9.68	125.595	1.45	1.36	-13.05	
1397.00	3.220	87.970	1396.86	50.86	-6.65	-5.74	9.99	1735862.97	374331.95	39°31'26.3329"N	80°26'10.9504"W	11.52	119.873	1.99	1.52	-25.48	
1439.00	4.200	79.340	1438.77	92.77	-6.57	-5.41	12.68	1735865.66	374332.28	39°31'26.3364"N	80°26'10.9161"W	13.78	113.111	2.68	2.33	-20.55	
1482.00	5.340	76.610	1481.62	135.62	-6.15	-4.66	16.17	1735869.15	374333.04	39°31'26.3442"N	80°26'10.8716"W	16.83	106.060	2.70	2.65	-6.35	



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Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
1525.00	6.530	75.620	1524.39	178.39	-5.49	-3.58	20.49	1735873.47	374334.11	39°31'26.3552"N	80°26'10.8167"W	20.80	99.925	2.78	2.77	-2.30	
1569.00	7.770	76.450	1568.04	222.04	-4.68	-2.27	25.80	1735878.78	374335.42	39°31'26.3688"N	80°26'10.7491"W	25.90	95.019	2.83	2.82	1.89	
1612.00	8.650	78.710	1610.60	264.60	-3.93	-0.95	31.80	1735884.78	374336.74	39°31'26.3824"N	80°26'10.6727"W	31.81	91.715	2.18	2.05	5.26	
1654.00	8.970	81.040	1652.11	306.11	-3.40	0.18	38.13	1735891.11	374337.87	39°31'26.3942"N	80°26'10.5921"W	38.13	89.735	1.14	0.76	5.55	
1740.00	9.420	81.980	1737.00	391.00	-2.66	2.20	51.72	1735904.70	374339.89	39°31'26.4156"N	80°26'10.4189"W	51.77	87.562	0.55	0.52	1.09	
1827.00	10.220	83.160	1822.73	476.73	-2.13	4.11	66.43	1735919.41	374341.80	39°31'26.4361"N	80°26'10.2314"W	66.56	86.456	0.95	0.92	1.36	
1911.00	10.630	82.350	1905.34	559.34	-1.64	6.03	81.51	1735934.49	374343.72	39°31'26.4566"N	80°26'10.0392"W	81.74	85.766	0.52	0.49	-0.96	
1996.00	10.720	81.730	1988.87	642.87	-0.93	8.21	97.11	1735950.09	374345.90	39°31'26.4797"N	80°26'9.8405"W	97.45	85.165	0.17	0.11	-0.73	
2083.00	10.870	80.260	2074.33	728.33	0.11	10.77	113.20	1735966.18	374348.46	39°31'26.5066"N	80°26'9.6355"W	113.71	84.567	0.36	0.17	-1.69	
2169.00	10.160	76.300	2156.88	812.88	1.56	13.66	126.62	1735981.60	374351.37	39°31'26.5370"N	80°26'9.4391"W	129.34	83.930	0.92	-0.83	-2.28	
2255.00	10.350	75.740	2243.51	897.51	3.58	17.12	143.53	1735996.51	374354.81	39°31'26.5725"N	80°26'9.2492"W	144.55	83.199	0.57	0.22	-2.98	
2341.00	11.390	73.400	2327.97	981.97	6.43	21.45	159.16	1736012.14	374359.14	39°31'26.6169"N	80°26'9.0504"W	160.60	82.326	1.31	1.21	-2.72	
2428.00	12.020	74.020	2413.16	1067.16	9.77	26.39	176.10	1736029.08	374364.08	39°31'26.6675"N	80°26'8.8349"W	178.07	81.476	0.74	0.72	0.71	
2513.00	11.100	76.070	2496.43	1150.43	12.61	30.80	192.55	1736045.53	374368.49	39°31'26.7128"N	80°26'8.6255"W	195.00	80.912	1.19	-1.08	2.41	
2599.00	8.180	79.300	2581.21	1235.21	14.41	33.93	206.60	1736059.58	374371.62	39°31'26.7452"N	80°26'8.4467"W	209.37	80.673	3.45	-3.40	3.76	
2658.00	7.030	81.970	2639.69	1293.69	14.97	35.21	214.30	1736067.28	374372.90	39°31'26.7586"N	80°26'8.3486"W	217.17	80.668	2.04	-1.95	4.53	
2752.00	6.320	81.340	2733.05	1387.05	15.53	36.80	225.11	1736078.09	374374.49	39°31'26.7754"N	80°26'8.2108"W	228.10	80.716	0.76	-0.76	-0.67	
2795.00	5.940	81.260	2775.81	1429.81	15.79	37.49	229.65	1736082.63	374375.18	39°31'26.7827"N	80°26'8.1530"W	232.69	80.728	0.88	-0.88	-0.19	
2838.00	6.960	80.600	2818.53	1472.53	16.11	38.26	234.42	1736087.40	374375.95	39°31'26.7908"N	80°26'8.0922"W	237.52	80.732	2.38	2.37	-1.53	
2882.00	9.090	82.370	2862.10	1516.10	16.43	39.15	240.50	1736093.48	374376.84	39°31'26.8003"N	80°26'8.0148"W	243.66	80.753	4.87	4.84	4.02	
2925.00	11.500	83.690	2904.41	1558.41	16.63	40.07	248.12	1736101.10	374377.76	39°31'26.8102"N	80°26'7.9176"W	251.34	80.825	5.63	5.60	3.07	
2968.00	13.570	83.530	2946.38	1600.38	16.80	41.11	257.40	1736110.38	374378.80	39°31'26.8214"N	80°26'7.7994"W	260.66	80.925	4.81	4.81	-0.37	
3011.00	15.370	82.090	2988.01	1642.01	17.15	42.47	268.06	1736121.04	374380.16	39°31'26.8359"N	80°26'7.6636"W	271.40	80.998	4.27	4.19	-3.35	
3055.00	16.970	79.970	3030.27	1684.27	17.92	44.39	280.16	1736133.13	374382.08	39°31'26.8561"N	80°26'7.5094"W	283.65	80.997	3.88	3.64	-4.82	
3098.00	18.550	77.760	3071.22	1725.22	19.25	46.93	293.02	1736146.00	374384.62	39°31'26.8825"N	80°26'7.3456"W	296.75	80.901	3.99	3.67	-5.14	
3141.00	20.150	77.020	3111.79	1765.79	21.05	50.04	306.92	1736159.90	374387.73	39°31'26.9148"N	80°26'7.1686"W	310.98	80.739	3.76	3.72	-1.72	
3184.00	21.170	76.340	3152.02	1806.02	23.14	53.54	321.68	1736174.66	374391.23	39°31'26.9508"N	80°26'6.9807"W	326.11	80.550	2.44	2.37	-1.58	
3228.00	21.890	77.890	3192.95	1846.95	25.25	57.14	337.42	1736190.40	374394.83	39°31'26.9880"N	80°26'6.7803"W	342.23	80.389	2.09	1.64	3.52	
3271.00	22.300	79.170	3232.80	1886.80	26.96	60.35	353.28	1736206.25	374398.04	39°31'27.0214"N	80°26'6.5784"W	358.39	80.305	1.47	0.95	2.98	
3314.00	22.940	78.300	3272.49	1926.49	28.66	63.59	369.49	1736222.47	374401.28	39°31'27.0550"N	80°26'6.3719"W	374.93	80.236	1.68	1.49	-2.02	



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3357.00	23.880	78.510	3311.95	1965.95	30.51	67.02	386.23	1736239.21	374404.71	39°31'27.0907"N	80°26'6.1588"W	392.00	80.156	2.19	2.19	0.49	
3401.00	24.210	77.670	3352.13	2006.13	32.55	70.72	403.77	1736256.75	374408.41	39°31'27.1291"N	80°26'5.9354"W	409.92	80.065	1.08	0.75	-1.91	
3444.00	23.910	78.370	3391.40	2045.40	34.57	74.36	420.92	1736273.90	374412.05	39°31'27.1668"N	80°26'5.7171"W	427.44	79.982	0.96	-0.70	1.63	
3487.00	23.610	77.960	3430.75	2084.75	36.51	77.91	437.88	1736290.86	374415.60	39°31'27.2037"N	80°26'5.5011"W	444.75	79.911	0.80	-0.70	-0.95	
3530.00	24.100	77.820	3470.08	2124.08	38.55	81.56	454.88	1736307.86	374419.25	39°31'27.2415"N	80°26'5.2846"W	462.13	79.835	1.15	1.14	-0.33	
3574.00	25.120	77.900	3510.08	2164.08	40.71	85.41	472.79	1736325.77	374423.10	39°31'27.2814"N	80°26'5.0566"W	480.45	79.760	2.32	2.32	0.18	
3660.00	27.330	78.260	3587.22	2241.22	45.03	93.26	509.98	1736362.95	374430.95	39°31'27.3627"N	80°26'4.5831"W	518.43	79.637	2.58	2.57	0.42	
3746.00	29.500	77.660	3662.86	2316.86	49.78	101.80	549.99	1736402.97	374439.49	39°31'27.4513"N	80°26'4.0736"W	559.34	79.514	2.54	2.52	-0.70	
3832.00	31.100	75.760	3737.11	2391.11	55.77	111.79	592.21	1736445.19	374449.48	39°31'27.5544"N	80°26'3.5361"W	602.67	79.310	2.17	1.86	-2.21	
3918.00	32.960	73.910	3810.01	2464.01	63.54	123.74	636.23	1736489.21	374461.43	39°31'27.6770"N	80°26'2.9759"W	648.16	78.994	2.47	2.19	-2.15	
4004.00	34.740	73.770	3881.42	2535.42	72.51	137.08	682.26	1736535.23	374474.77	39°31'27.8135"N	80°26'2.3904"W	695.89	78.639	2.05	2.05	-0.16	
4091.00	36.390	74.220	3952.19	2606.19	81.83	151.03	730.89	1736583.87	374488.72	39°31'27.9564"N	80°26'1.7716"W	746.34	78.325	1.92	1.90	0.52	
4177.00	38.430	74.730	4020.50	2674.50	91.03	165.01	781.23	1736634.21	374502.70	39°31'28.0997"N	80°26'1.1310"W	798.47	78.074	2.40	2.37	0.59	
4264.00	39.760	74.440	4088.01	2742.01	100.59	179.59	834.12	1736687.10	374517.28	39°31'28.2493"N	80°26'0.4581"W	853.23	77.849	1.54	1.53	-0.33	
4350.00	40.280	74.610	4153.87	2807.87	110.28	194.35	887.42	1736740.40	374532.03	39°31'28.4006"N	80°25'59.7799"W	908.45	77.647	0.62	0.60	0.20	
4436.00	39.710	75.730	4219.76	2873.76	119.36	208.50	940.85	1736793.83	374546.18	39°31'28.5459"N	80°25'59.0999"W	963.67	77.505	1.07	-0.66	1.30	
4522.00	39.840	76.080	4285.86	2939.86	127.70	221.89	994.21	1736847.19	374559.58	39°31'28.6838"N	80°25'58.4207"W	1018.67	77.419	0.30	0.15	0.41	
4609.00	39.950	75.610	4352.60	3006.60	136.21	235.54	1048.32	1736901.30	374573.23	39°31'28.8243"N	80°25'57.7320"W	1074.45	77.337	0.37	0.13	-0.54	
4695.00	39.480	74.610	4418.76	3072.76	145.29	249.66	1101.42	1736954.40	374587.35	39°31'28.9692"N	80°25'57.0562"W	1129.36	77.229	0.92	-0.55	-1.16	
4782.00	38.640	74.790	4486.31	3140.31	154.73	264.12	1154.30	1737007.28	374601.81	39°31'29.1176"N	80°25'56.3834"W	1184.13	77.112	0.97	-0.97	0.21	
4868.00	38.770	74.150	4553.43	3207.43	164.21	278.52	1206.11	1737059.09	374616.21	39°31'29.2653"N	80°25'55.7241"W	1237.85	76.997	0.49	0.15	-0.74	
4954.00	39.010	74.750	4620.36	3274.36	173.74	293.00	1258.13	1737111.11	374630.69	39°31'29.4136"N	80°25'55.0622"W	1291.80	76.890	0.52	0.28	0.70	
5031.00	38.760	74.540	4680.30	3334.30	182.12	305.80	1304.74	1737157.72	374643.49	39°31'29.5449"N	80°25'54.4690"W	1340.10	76.810	0.37	-0.32	-0.27	
5118.00	39.240	74.940	4747.91	3401.91	191.51	320.21	1357.56	1737210.54	374657.89	39°31'29.6927"N	80°25'53.7969"W	1394.81	76.728	0.62	0.55	0.46	
5204.00	39.740	75.530	4814.28	3468.28	200.43	334.14	1410.45	1737263.42	374671.83	39°31'29.8359"N	80°25'53.1239"W	1449.49	76.672	0.73	0.58	0.89	
5291.00	40.680	76.480	4880.72	3534.72	208.83	347.72	1464.95	1737317.92	374685.41	39°31'29.9757"N	80°25'52.4302"W	1505.65	76.647	1.29	1.08	1.09	
5377.00	41.050	75.640	4945.76	3599.76	217.21	361.28	1519.55	1737372.53	374698.97	39°31'30.1153"N	80°25'51.7351"W	1561.91	76.626	0.77	0.43	-0.98	
5464.00	40.570	74.540	5011.61	3665.61	226.62	375.90	1574.50	1737427.47	374713.59	39°31'30.2655"N	80°25'51.0359"W	1618.75	76.572	0.99	-0.55	-1.26	
5551.00	40.350	74.090	5077.81	3731.81	236.72	391.17	1628.85	1737481.83	374728.86	39°31'30.4219"N	80°25'50.3443"W	1675.16	76.496	0.42	-0.25	-0.52	
5637.00	40.190	74.580	5143.42	3797.42	246.65	406.18	1682.38	1737535.35	374743.87	39°31'30.5757"N	80°25'49.6632"W	1730.71	76.427	0.41	-0.19	0.57	



Actual Wellpath Report

Carnegie 19H Proj: 23521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
5723.00	40.250	74.940	5209.09	3863.09	256.16	420.77	1735.95	1737588.93	374758.46	39°31'30.7254"N	80°25'48.9814"W	1786.22	76.375	0.28	0.07	0.42	
5810.00	40.800	74.670	5275.22	3929.22	265.79	435.59	1790.51	1737643.49	374773.28	39°31'30.8775"N	80°25'48.2871"W	1842.73	76.327	0.66	0.63	-0.31	
5896.00	41.090	74.070	5340.18	3994.18	275.82	450.78	1844.78	1737697.76	374788.47	39°31'31.0331"N	80°25'47.5965"W	1899.06	76.269	0.57	0.34	-0.70	
5983.00	40.100	74.610	5406.24	4060.24	285.93	466.06	1899.29	1737752.27	374803.75	39°31'31.1897"N	80°25'46.9030"W	1955.64	76.213	1.21	-1.14	0.62	
6069.00	39.050	74.820	5472.53	4126.53	295.35	480.50	1952.14	1737805.12	374818.19	39°31'31.3379"N	80°25'46.2304"W	2010.41	76.172	1.23	-1.22	0.24	
6155.00	38.780	76.290	5539.45	4193.45	303.87	493.98	2004.45	1737857.43	374831.67	39°31'31.4765"N	80°25'45.5646"W	2064.42	76.156	1.12	-0.31	1.71	
6242.00	39.360	76.360	5606.99	4260.99	311.78	506.94	2057.73	1737910.71	374844.63	39°31'31.6100"N	80°25'44.8864"W	2119.26	76.160	0.67	0.67	0.08	
6328.00	39.380	75.730	5673.47	4327.47	319.91	520.10	2110.67	1737963.65	374857.79	39°31'31.7455"N	80°25'44.2126"W	2173.81	76.157	0.47	0.02	-0.73	
6415.00	39.910	74.380	5740.47	4394.47	329.14	534.42	2164.30	1738017.28	374872.11	39°31'31.8924"N	80°25'43.5301"W	2229.30	76.130	1.16	0.61	-1.55	
6501.00	39.820	73.680	5806.48	4460.48	339.27	549.58	2217.30	1738070.27	374887.27	39°31'32.0477"N	80°25'42.8558"W	2284.39	76.079	0.53	-0.10	-0.81	
6588.00	39.710	74.140	5873.35	4527.35	349.61	565.01	2270.76	1738123.74	374902.70	39°31'32.2056"N	80°25'42.1755"W	2340.00	76.028	0.36	-0.13	0.53	
6674.00	39.650	74.840	5939.54	4593.54	359.27	579.69	2323.67	1738176.65	374917.38	39°31'32.3562"N	80°25'41.5022"W	2394.89	75.992	0.52	-0.07	0.81	
6760.00	39.170	75.140	6005.98	4659.98	368.40	593.83	2376.41	1738229.38	374931.52	39°31'32.5013"N	80°25'40.8311"W	2449.48	75.970	0.60	-0.56	0.35	
6847.00	38.420	74.310	6073.79	4727.79	377.76	608.19	2428.99	1738281.97	374945.88	39°31'32.6486"N	80°25'40.1619"W	2503.98	75.943	1.05	-0.86	-0.95	
6933.00	37.800	73.000	6141.46	4795.46	387.86	623.12	2479.92	1738332.90	374960.81	39°31'32.8014"N	80°25'39.5140"W	2557.01	75.896	1.18	-0.72	-1.52	
7019.00	37.990	72.610	6209.32	4863.32	398.67	638.74	2530.38	1738383.36	374976.42	39°31'32.9608"N	80°25'38.8721"W	2609.76	75.833	0.36	0.22	-0.45	
7106.00	37.760	72.490	6278.00	4932.00	409.84	654.75	2581.34	1738434.31	374992.44	39°31'33.1243"N	80°25'38.2239"W	2663.08	75.767	0.28	-0.26	-0.14	
7192.00	37.550	72.870	6346.08	5000.08	420.71	670.39	2631.49	1738484.47	375008.08	39°31'33.2840"N	80°25'37.5859"W	2715.55	75.707	0.36	-0.24	0.44	
7278.00	38.350	72.100	6413.90	5067.90	431.83	686.31	2681.93	1738534.90	375024.00	39°31'33.4465"N	80°25'36.9444"W	2768.35	75.646	1.08	0.93	-0.90	
7355.00	39.640	74.450	6473.75	5127.75	441.35	700.24	2728.33	1738581.30	375037.93	39°31'33.5889"N	80°25'36.3541"W	2816.75	75.605	2.55	1.68	3.05	
7442.00	41.260	78.090	6539.96	5193.96	449.51	713.60	2783.14	1738636.12	375051.29	39°31'33.7266"N	80°25'35.6563"W	2873.17	75.619	3.29	1.86	4.18	
7528.00	41.430	76.490	6604.52	5258.52	456.76	726.10	2838.56	1738691.53	375063.79	39°31'33.8558"N	80°25'34.9508"W	2929.95	75.651	1.24	0.20	-1.86	
7614.00	41.600	75.210	6668.92	5322.92	465.45	740.04	2893.83	1738746.80	375077.73	39°31'33.9991"N	80°25'34.2473"W	2986.95	75.655	1.01	0.20	-1.49	
7701.00	42.870	76.270	6733.33	5387.33	474.47	754.44	2950.50	1738803.48	375092.13	39°31'34.1472"N	80°25'33.5259"W	3045.43	75.657	1.67	1.46	1.22	
7787.00	41.590	77.870	6797.01	5451.01	482.08	767.38	3006.83	1738859.81	375105.07	39°31'34.2808"N	80°25'32.8088"W	3103.21	75.683	1.94	-1.49	1.86	
7873.00	40.350	77.010	6861.95	5515.95	489.12	779.64	3061.87	1738914.84	375117.32	39°31'34.4076"N	80°25'32.1080"W	3159.57	75.714	1.58	-1.44	-1.00	
7917.00	39.640	75.310	6895.66	5549.66	493.27	786.40	3089.33	1738942.30	375124.09	39°31'34.4772"N	80°25'31.7585"W	3187.84	75.719	2.96	-1.61	-3.86	
8008.00	40.050	69.900	6965.55	5619.55	505.41	803.82	3144.91	1738997.89	375141.51	39°31'34.6551"N	80°25'31.0514"W	3246.02	75.662	3.83	0.45	-5.95	D3 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2"> (8008' - 23417')
8103.00	45.550	62.840	7035.26	5689.26	525.79	829.84	3203.87	1739056.84	375167.53	39°31'34.9182"N	80°25'30.3025"W	3309.59	75.479	7.68	5.79	-7.43	Curve KOP
8198.00	52.790	61.430	7097.34	5751.34	553.30	863.46	3267.35	1739120.32	375201.15	39°31'35.2569"N	80°25'29.4968"W	3379.51	75.197	7.70	7.62	-1.48	



Actual Wellpath Report

Carnegie 19H Proj: 23521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
8293.00	60.810	58.590	7149.32	5803.32	586.46	903.23	3336.08	1739189.06	375240.92	39°31'35.6570"N	80°25'28.6248"W	3456.19	74.851	8.80	8.44	-2.99	
8388.00	64.950	46.820	7192.74	5846.74	631.17	954.45	3403.07	1739256.04	375292.14	39°31'36.1701"N	80°25'27.7767"W	3534.38	74.333	11.85	4.36	-12.39	
8483.00	70.380	45.120	7228.83	5882.83	686.05	1015.52	3466.20	1739319.18	375353.21	39°31'36.7801"N	80°25'26.9790"W	3611.90	73.671	5.95	5.72	-1.79	
8579.00	70.440	45.970	7261.02	5915.02	743.06	1078.86	3530.76	1739383.73	375416.55	39°31'37.4126"N	80°25'26.1635"W	3691.91	73.009	0.84	0.06	0.89	
8674.00	70.410	45.760	7292.85	5946.85	799.09	1141.19	3595.00	1739447.97	375478.88	39°31'38.0352"N	80°25'25.3518"W	3771.78	72.389	0.21	-0.03	-0.22	
8769.00	70.510	45.130	7324.62	5978.62	855.65	1204.00	3658.80	1739511.77	375541.69	39°31'38.6625"N	80°25'24.5459"W	3851.81	71.785	0.63	0.11	-0.66	
8863.00	70.390	46.600	7356.08	6010.08	911.10	1265.69	3722.37	1739575.34	375603.37	39°31'39.2786"N	80°25'23.7427"W	3931.67	71.221	1.48	-0.13	1.56	
8959.00	70.380	46.860	7388.30	6042.30	966.63	1327.67	3788.21	1739641.19	375665.36	39°31'39.8979"N	80°25'22.9105"W	4014.13	70.686	0.26	-0.01	0.27	
9054.00	70.350	47.010	7420.23	6074.23	1021.33	1388.77	3853.58	1739706.56	375726.45	39°31'40.5083"N	80°25'22.0843"W	4096.19	70.182	0.15	-0.03	0.16	
9149.00	70.380	47.210	7452.15	6106.15	1075.82	1449.66	3919.14	1739772.11	375787.35	39°31'41.1169"N	80°25'21.2557"W	4178.66	69.701	0.20	0.03	0.21	
9243.00	70.470	45.350	7483.65	6137.65	1130.75	1510.87	3983.15	1739836.12	375848.56	39°31'41.7283"N	80°25'20.4469"W	4260.07	69.227	1.87	0.10	-1.98	
9339.00	70.380	45.760	7515.81	6169.81	1187.76	1574.21	4047.72	1739900.69	375911.89	39°31'42.3608"N	80°25'19.6311"W	4343.06	68.748	0.41	-0.09	0.43	
9434.00	70.340	45.340	7547.74	6201.74	1244.15	1636.86	4111.59	1739964.56	375974.55	39°31'42.9866"N	80°25'18.8241"W	4425.44	68.292	0.42	-0.04	-0.44	
9529.00	71.980	39.600	7578.44	6232.44	1304.47	1703.16	4172.25	1740025.22	376040.85	39°31'43.6480"N	80°25'18.0587"W	4506.49	67.794	5.97	1.73	-6.04	
9624.00	73.490	28.280	7606.72	6260.72	1374.54	1778.30	4222.77	1740075.74	376115.99	39°31'44.3957"N	80°25'17.4237"W	4581.94	67.163	11.49	1.59	-11.92	
9718.00	74.740	18.550	7632.50	6286.50	1453.67	1861.16	4258.63	1740111.60	376198.85	39°31'45.2183"N	80°25'16.9770"W	4647.56	66.393	10.04	1.33	-10.35	
9814.00	76.610	11.140	7656.29	6310.29	1540.89	1951.00	4282.42	1740135.39	376288.69	39°31'46.1086"N	80°25'16.6852"W	4705.90	65.507	7.73	1.95	-7.72	
9909.00	78.090	3.850	7677.12	6331.12	1631.18	2042.84	4294.48	1740147.45	376380.52	39°31'47.0175"N	80°25'16.5432"W	4755.60	64.560	7.65	1.56	-7.67	
9977.50†	81.349	0.051	7689.35	6343.35	1698.01	2110.18	4296.76	1740149.73	376447.86	39°31'47.6832"N	80°25'16.5229"W	4786.96	63.844	7.24	4.76	-5.55	Marcellus
10004.00	82.620	358.600	7693.04	6347.04	1724.16	2136.41	4296.45	1740149.42	376474.10	39°31'47.9425"N	80°25'16.5303"W	4798.31	63.561	7.24	4.80	-5.47	
10099.00	83.800	353.120	7704.28	6358.28	1818.44	2230.46	4289.64	1740142.61	376568.15	39°31'48.8714"N	80°25'16.6296"W	4834.87	62.527	5.86	1.24	-5.77	
10196.00	84.980	345.990	7713.78	6367.78	1914.53	2325.33	4272.14	1740125.12	376663.02	39°31'49.8072"N	80°25'16.8653"W	4863.99	61.440	7.42	1.22	-7.35	
10289.00	84.730	336.750	7722.13	6376.13	2004.59	2413.01	4242.59	1740095.56	376750.69	39°31'50.6708"N	80°25'17.2539"W	4880.80	60.371	9.90	-0.27	-9.94	
10385.00	85.420	335.880	7730.37	6384.37	2095.39	2500.60	4204.17	1740057.14	376838.28	39°31'51.5325"N	80°25'17.7558"W	4891.63	59.256	1.15	0.72	-0.91	
10480.00	89.820	335.990	7734.32	6388.32	2185.29	2587.24	4165.47	1740018.44	376924.93	39°31'52.3850"N	80°25'18.2610"W	4903.57	58.155	4.83	4.63	0.12	Landing Point
10575.00	90.140	336.670	7734.35	6388.35	2275.49	2674.25	4127.33	1739980.30	377011.93	39°31'53.2410"N	80°25'18.7591"W	4917.98	57.059	0.79	0.34	0.72	
10670.00	91.430	334.870	7733.05	6387.05	2365.38	2760.87	4088.35	1739941.32	377098.55	39°31'54.0931"N	80°25'19.2680"W	4933.25	55.969	2.33	1.36	-1.89	
10765.00	89.650	334.810	7732.16	6386.16	2454.77	2846.85	4047.96	1739900.94	377184.53	39°31'54.9388"N	80°25'19.7946"W	4948.79	54.882	1.87	-1.87	-0.06	
10860.00	90.210	335.050	7732.27	6386.27	2544.21	2932.90	4007.71	1739860.68	377270.58	39°31'55.7852"N	80°25'20.3197"W	4966.25	53.803	0.64	0.59	0.25	
10955.00	90.450	335.770	7731.72	6385.72	2633.92	3019.28	3968.18	1739821.15	377356.96	39°31'56.6349"N	80°25'20.8355"W	4986.23	52.733	0.80	0.25	0.76	



Actual Wellpath Report

Carnegie 19H Proj: 23521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
11050.00	89.780	333.790	7731.53	6385.53	2723.27	3105.22	3927.70	1739780.68	377442.90	39°31'57.4802"N	80°25'21.3634"W	5006.92	51.670	2.20	-0.71	-2.08	
11146.00	89.960	332.980	7731.75	6385.75	2812.76	3191.05	3884.70	1739737.67	377528.73	39°31'58.3241"N	80°25'21.9235"W	5027.29	50.599	0.86	0.19	-0.84	
11241.00	90.800	335.790	7731.12	6385.12	2901.88	3276.70	3843.63	1739696.60	377614.38	39°31'59.1664"N	80°25'22.4588"W	5050.77	49.552	3.09	0.88	2.96	
11336.00	90.250	335.580	7730.25	6384.25	2991.74	3363.27	3804.52	1739657.49	377700.95	39°32'0.0180"N	80°25'22.9694"W	5077.98	48.523	0.62	-0.58	-0.22	
11431.00	90.190	334.700	7729.89	6383.89	3081.30	3449.46	3764.58	1739617.55	377787.15	39°32'0.8659"N	80°25'23.4904"W	5105.96	47.501	0.93	-0.06	-0.93	
11526.00	90.410	335.900	7729.39	6383.39	3170.94	3535.77	3724.88	1739577.86	377873.45	39°32'1.7148"N	80°25'24.0084"W	5135.80	46.492	1.28	0.23	1.26	
11621.00	90.380	335.620	7728.73	6382.73	3260.84	3622.39	3685.88	1739538.85	377960.07	39°32'2.5670"N	80°25'24.5175"W	5167.92	45.498	0.30	-0.03	-0.29	
11717.00	90.910	334.430	7727.65	6381.65	3351.27	3709.41	3645.35	1739498.32	378047.09	39°32'3.4229"N	80°25'25.0463"W	5200.80	44.501	1.36	0.55	-1.24	
11812.00	90.090	334.590	7726.82	6380.82	3440.48	3795.15	3604.47	1739457.44	378132.84	39°32'4.2662"N	80°25'25.5793"W	5234.06	43.524	0.88	-0.86	0.17	
11906.00	89.900	334.010	7726.83	6380.83	3528.63	3679.65	3563.71	1739416.68	378217.54	39°32'5.0992"N	80°25'26.1107"W	5266.14	42.568	0.65	-0.20	-0.62	
12001.00	90.460	334.340	7726.53	6380.53	3617.64	3965.37	3522.32	1739375.29	378303.05	39°32'5.9401"N	80°25'26.6501"W	5303.86	41.614	0.68	0.59	0.35	
12096.00	89.820	333.990	7726.30	6380.30	3706.65	4050.87	3480.92	1739333.90	378388.55	39°32'6.7810"N	80°25'27.1897"W	5341.01	40.673	0.77	-0.67	-0.37	
12191.00	90.250	333.170	7726.24	6380.24	3795.32	4135.95	3438.65	1739291.63	378473.63	39°32'7.6175"N	80°25'27.7404"W	5378.70	39.740	0.97	0.45	-0.86	
12286.00	90.440	334.640	7725.67	6379.67	3884.17	4221.26	3396.87	1739249.84	378558.94	39°32'8.4565"N	80°25'28.2849"W	5418.28	38.824	1.56	0.20	1.55	
12381.00	90.530	334.770	7724.87	6378.87	3973.49	4307.15	3356.28	1739209.25	378644.83	39°32'9.3012"N	80°25'28.8142"W	5460.41	37.927	0.17	0.09	0.14	
12476.00	90.010	333.990	7724.42	6378.42	4062.62	4392.81	3315.20	1739168.17	378730.49	39°32'10.1436"N	80°25'29.3498"W	5503.39	37.041	0.99	-0.55	-0.82	
12571.00	90.010	333.920	7724.40	6378.40	4151.51	4478.16	3273.49	1739126.46	378815.84	39°32'10.9829"N	80°25'29.8934"W	5547.04	36.166	0.07	0.00	-0.07	
12666.00	90.200	334.900	7724.23	6378.23	4240.66	4563.84	3232.46	1739085.43	378901.52	39°32'11.8256"N	80°25'30.4284"W	5592.62	35.309	1.05	0.20	1.03	
12761.00	90.660	335.560	7723.52	6377.52	4330.26	4650.10	3192.66	1739045.63	378987.78	39°32'12.6740"N	80°25'30.9477"W	5640.61	34.473	0.85	0.48	0.69	
12855.00	90.200	335.580	7722.81	6376.81	4419.11	4735.68	3153.78	1739006.75	379073.36	39°32'13.5159"N	80°25'31.4551"W	5689.72	33.662	0.49	-0.49	0.02	
12950.00	89.890	335.070	7722.74	6376.74	4508.78	4822.00	3114.12	1738967.09	379159.68	39°32'14.3650"N	80°25'31.9727"W	5740.16	32.855	0.63	-0.33	-0.54	
13046.00	90.480	335.120	7722.43	6376.43	4599.26	4909.07	3073.69	1738926.67	379246.75	39°32'15.2215"N	80°25'32.5001"W	5791.94	32.052	0.62	0.61	0.05	
13140.00	90.670	335.490	7721.48	6375.48	4687.96	4994.47	3034.42	1738887.40	379332.15	39°32'16.0615"N	80°25'33.0126"W	5844.01	31.281	0.44	0.20	0.39	
13235.00	90.270	335.570	7720.70	6374.70	4777.73	5080.94	2995.07	1738848.05	379418.62	39°32'16.9120"N	80°25'33.5262"W	5898.00	30.518	0.43	-0.42	0.08	
13330.00	90.240	335.350	7720.28	6374.28	4867.47	5167.35	2955.62	1738808.59	379505.03	39°32'17.7621"N	80°25'34.0412"W	5952.92	29.769	0.23	-0.03	-0.23	
13425.00	89.810	334.300	7720.24	6374.24	4956.85	5253.33	2915.21	1738768.18	379591.01	39°32'18.6077"N	80°25'34.5683"W	6007.99	29.027	1.19	-0.45	-1.11	
13520.00	90.080	334.390	7720.33	6374.33	5045.97	5338.96	2874.08	1738727.05	379676.64	39°32'19.4499"N	80°25'35.1046"W	6063.40	28.295	0.30	0.28	0.09	
13615.00	90.520	335.220	7719.83	6373.83	5135.34	5424.92	2833.64	1738686.61	379762.60	39°32'20.2953"N	80°25'35.6321"W	6120.40	27.580	0.99	0.46	0.87	
13710.00	90.800	335.600	7718.74	6372.74	5225.05	5511.30	2794.11	1738647.08	379848.98	39°32'21.1450"N	80°25'36.1480"W	6179.12	26.884	0.50	0.29	0.40	
13805.00	90.210	335.550	7717.90	6371.90	5314.84	5597.80	2754.83	1738607.80	379935.47	39°32'21.9959"N	80°25'36.6607"W	6238.94	26.203	0.62	-0.62	-0.05	



Actual Wellpath Report

Carnegie 19H Proj: 23521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
13900.00	90.090	335.820	7717.65	6371.65	5404.70	5684.37	2715.71	1738568.69	380022.05	39°32'22.8475"N	80°25'37.1714"W	6299.77	25.536	0.31	-0.13	0.28	
13995.00	90.460	336.060	7717.20	6371.20	5494.69	5771.11	2676.98	1738529.96	380108.79	39°32'23.7009"N	80°25'37.6772"W	6361.76	24.885	0.46	0.39	0.25	
14090.00	89.690	335.720	7717.07	6371.07	5584.66	5857.83	2638.17	1738491.15	380195.50	39°32'24.5539"N	80°25'38.1840"W	6424.49	24.245	0.89	-0.81	-0.36	
14185.00	89.690	335.270	7717.59	6371.59	5674.42	5944.27	2598.77	1738451.75	380281.94	39°32'25.4042"N	80°25'38.6983"W	6487.52	23.614	0.47	0.00	-0.47	
14280.00	89.690	335.210	7718.10	6372.10	5764.03	6030.53	2558.98	1738411.96	380368.21	39°32'26.2528"N	80°25'39.2175"W	6551.01	22.993	0.06	0.00	-0.06	
14375.00	89.600	335.090	7718.69	6372.69	5853.60	6116.73	2519.06	1738372.04	380454.41	39°32'27.1007"N	80°25'39.7385"W	6615.14	22.383	0.16	-0.09	-0.13	
14470.00	89.910	335.410	7719.09	6373.09	5943.22	6203.01	2479.29	1738332.26	380540.68	39°32'27.9493"N	80°25'40.2575"W	6680.13	21.786	0.47	0.33	0.34	
14565.00	90.090	336.260	7719.09	6373.09	6033.16	6289.68	2440.40	1738293.38	380627.36	39°32'28.8019"N	80°25'40.7653"W	6746.53	21.206	0.91	0.19	0.89	
14660.00	89.410	335.120	7719.51	6373.51	6123.02	6376.25	2401.29	1738254.27	380713.93	39°32'29.6536"N	80°25'41.2759"W	6813.43	20.636	1.40	-0.72	-1.20	
14755.00	89.940	335.330	7720.05	6374.05	6212.63	6462.51	2361.48	1738214.46	380800.19	39°32'30.5020"N	80°25'41.7954"W	6880.45	20.073	0.60	0.56	0.22	
14850.00	90.280	335.190	7719.87	6373.87	6302.25	6548.79	2321.73	1738174.70	380886.47	39°32'31.3507"N	80°25'42.3143"W	6948.17	19.521	0.39	0.36	-0.15	
14944.00	90.030	335.530	7719.61	6373.61	6390.99	6634.23	2282.54	1738135.51	380971.91	39°32'32.1911"N	80°25'42.8258"W	7015.91	18.986	0.45	-0.27	0.36	
15039.00	90.250	335.400	7719.38	6373.38	6480.73	6720.65	2243.09	1738096.06	381058.33	39°32'33.0412"N	80°25'43.3408"W	7085.10	18.457	0.27	0.23	-0.14	
15133.00	90.060	335.630	7719.13	6373.13	6569.55	6806.20	2204.13	1738057.10	381143.87	39°32'33.8827"N	80°25'43.8494"W	7154.20	17.944	0.32	-0.20	0.24	
15228.00	90.090	336.060	7719.00	6373.00	6659.50	6892.88	2165.25	1738018.23	381230.56	39°32'34.7354"N	80°25'44.3570"W	7224.96	17.439	0.45	0.03	0.45	
15323.00	89.970	334.390	7718.95	6372.95	6749.10	6979.13	2125.45	1737978.42	381316.81	39°32'35.5838"N	80°25'44.8765"W	7295.60	16.938	1.76	-0.13	-1.76	
15418.00	90.120	334.810	7718.88	6372.88	6838.36	7064.95	2084.70	1737937.67	381402.63	39°32'36.4278"N	80°25'45.4080"W	7366.10	16.440	0.47	0.16	0.44	
15512.00	89.600	334.620	7719.11	6373.11	6926.75	7149.94	2044.55	1737897.52	381487.62	39°32'37.2637"N	80°25'45.9317"W	7436.52	15.958	0.59	-0.55	-0.20	
15607.00	89.750	334.050	7719.64	6373.64	7015.85	7235.57	2003.40	1737856.38	381573.24	39°32'38.1058"N	80°25'46.4683"W	7507.80	15.476	0.62	0.16	-0.60	
15702.00	89.350	334.480	7720.39	6374.39	7104.92	7321.14	1962.15	1737815.13	381658.82	39°32'38.9473"N	80°25'47.0061"W	7579.52	15.003	0.62	-0.42	0.45	
15796.00	89.140	334.200	7721.63	6375.63	7193.08	7405.87	1921.45	1737774.43	381743.54	39°32'39.7805"N	80°25'47.5368"W	7651.07	14.545	0.37	-0.22	-0.30	
15891.00	89.630	334.560	7722.65	6376.65	7282.21	7491.52	1880.38	1737733.35	381829.19	39°32'40.6228"N	80°25'48.0725"W	7723.90	14.090	0.64	0.52	0.38	
15986.00	89.880	334.700	7723.06	6377.06	7371.49	7577.36	1839.67	1737692.65	381915.03	39°32'41.4670"N	80°25'48.6034"W	7797.48	13.647	0.30	0.26	0.15	
16081.00	89.850	334.660	7723.28	6377.28	7460.79	7663.23	1799.05	1737652.02	382000.90	39°32'42.3116"N	80°25'49.1334"W	7871.57	13.212	0.05	-0.03	-0.04	
16176.00	89.820	334.250	7723.55	6377.55	7549.97	7748.94	1758.08	1737611.06	382086.62	39°32'43.1545"N	80°25'49.6676"W	7945.88	12.783	0.43	-0.03	-0.43	
16271.00	89.940	334.440	7723.75	6377.75	7639.08	7834.58	1716.95	1737569.93	382172.25	39°32'43.9967"N	80°25'50.2040"W	8020.51	12.361	0.24	0.13	0.20	
16365.00	89.420	334.750	7724.28	6378.28	7727.40	7919.49	1676.62	1737529.60	382257.16	39°32'44.8317"N	80°25'50.7300"W	8095.02	11.954	0.64	-0.55	0.33	
16460.00	89.140	334.490	7725.47	6379.47	7816.66	8005.31	1635.91	1737488.88	382342.98	39°32'45.6758"N	80°25'51.2611"W	8170.75	11.550	0.40	-0.29	-0.27	
16554.00	89.700	333.800	7726.42	6380.42	7904.72	8089.90	1594.92	1737447.89	382427.57	39°32'46.5076"N	80°25'51.7955"W	8245.62	11.153	0.95	0.60	-0.73	
16744.00	89.700	334.100	7727.42	6381.42	8082.48	8260.59	1511.48	1737364.46	382598.26	39°32'48.1861"N	80°25'52.8832"W	8397.73	10.369	0.16	0.00	0.16	



Actual Wellpath Report

Carnegie 19H Proj: 23521'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
16838.00	89.300	334.470	7728.24	6382.24	8170.62	8345.28	1470.69	1737323.67	382682.95	39°32'49.0189"N	80°25'53.4151"W	8473.88	9.995	0.58	-0.43	0.38	
16933.00	88.990	334.140	7729.66	6383.66	8259.70	8430.87	1429.51	1737282.49	382768.55	39°32'49.8606"N	80°25'53.9522"W	8551.21	9.623	0.48	-0.33	-0.35	
17027.00	89.970	334.800	7730.51	6384.51	8347.94	8515.69	1389.00	1737241.98	382853.36	39°32'50.6947"N	80°25'54.4805"W	8628.23	9.264	1.26	1.04	0.70	
17122.00	89.300	334.660	7731.11	6385.11	8437.27	8601.60	1348.45	1737201.42	382939.27	39°32'51.5396"N	80°25'55.0096"W	8706.65	8.910	0.72	-0.71	-0.15	
17216.00	90.010	335.480	7731.68	6385.68	8525.85	8686.84	1308.83	1737161.80	383024.51	39°32'52.3780"N	80°25'55.5266"W	8784.88	8.568	1.15	0.76	0.87	
17311.00	89.850	334.960	7731.80	6385.80	8615.46	8773.09	1269.01	1737121.99	383110.76	39°32'53.2264"N	80°25'56.0464"W	8864.39	8.231	0.57	-0.17	-0.55	
17406.00	89.610	334.880	7732.24	6386.24	8704.90	8859.13	1228.74	1737081.72	383196.80	39°32'54.0726"N	80°25'56.5718"W	8943.94	7.896	0.27	-0.25	-0.08	
17501.00	89.580	334.960	7732.91	6386.91	8794.33	8945.17	1188.47	1737041.45	383282.84	39°32'54.9189"N	80°25'57.0973"W	9023.78	7.568	0.09	-0.03	0.08	
17595.00	89.390	334.920	7733.76	6387.76	8882.84	9030.32	1148.66	1737001.64	383367.99	39°32'55.7563"N	80°25'57.6168"W	9103.08	7.249	0.21	-0.20	-0.04	
17690.00	89.790	334.920	7734.44	6388.44	8972.28	9116.36	1108.39	1736961.37	383454.03	39°32'56.6026"N	80°25'58.1422"W	9183.49	6.932	0.42	0.42	0.00	
17785.00	89.270	334.310	7735.22	6389.22	9061.54	9202.18	1067.67	1736920.64	383539.86	39°32'57.4466"N	80°25'58.6735"W	9263.91	6.618	0.84	-0.55	-0.64	
17880.00	89.790	334.730	7736.00	6390.00	9150.75	9287.94	1026.80	1736879.78	383625.61	39°32'58.2900"N	80°25'59.2066"W	9344.53	6.309	0.70	0.55	0.44	
17975.00	89.760	334.910	7736.37	6390.37	9240.13	9373.91	986.38	1736839.36	383711.58	39°32'59.1355"N	80°25'59.7340"W	9425.67	6.007	0.19	-0.03	0.19	
18069.00	89.610	334.460	7736.89	6390.89	9328.50	9458.88	946.19	1736799.16	383796.56	39°32'59.9712"N	80°26'0.2583"W	9506.09	5.712	0.50	-0.16	-0.48	
18165.00	89.520	334.800	7737.62	6391.62	9418.71	9545.62	905.06	1736758.03	383883.29	39°33'0.8242"N	80°26'0.7949"W	9588.43	5.416	0.37	-0.09	0.35	
18260.00	89.770	334.590	7738.21	6392.21	9508.03	9631.51	864.45	1736717.43	383969.18	39°33'1.6689"N	80°26'1.3247"W	9670.22	5.129	0.34	0.26	-0.22	
18355.00	89.740	334.670	7738.61	6392.61	9597.30	9717.34	823.75	1736676.72	384055.01	39°33'2.5130"N	80°26'1.8557"W	9752.20	4.845	0.09	-0.03	0.08	
18450.00	89.670	334.580	7739.10	6393.10	9686.57	9803.18	783.04	1736636.01	384140.85	39°33'3.3572"N	80°26'2.3868"W	9834.40	4.567	0.12	-0.07	-0.09	
18545.00	89.370	334.170	7739.90	6393.90	9775.70	9888.83	741.95	1736594.93	384226.50	39°33'4.1995"N	80°26'2.9227"W	9916.62	4.291	0.53	-0.32	-0.43	
18639.00	89.370	334.400	7740.93	6394.93	9863.84	9973.52	701.17	1736554.15	384311.19	39°33'5.0323"N	80°26'3.4546"W	9998.13	4.021	0.24	0.00	0.24	
18735.00	89.740	335.240	7741.68	6395.68	9954.16	10060.39	660.33	1736513.30	384398.06	39°33'5.8867"N	80°26'3.9875"W	10082.04	3.755	0.96	0.39	0.87	
18830.00	89.400	334.700	7742.39	6396.39	10043.62	10146.46	620.13	1736473.11	384484.13	39°33'6.7333"N	80°26'4.5120"W	10165.40	3.497	0.67	-0.36	-0.57	
18925.00	89.300	334.250	7743.47	6397.47	10132.81	10232.19	579.20	1736432.18	384569.86	39°33'7.5763"N	80°26'5.0460"W	10248.57	3.240	0.49	-0.11	-0.47	
19020.00	89.340	334.500	7744.59	6398.59	10221.93	10317.84	538.12	1736391.10	384655.51	39°33'8.4186"N	80°26'5.5819"W	10331.86	2.986	0.27	0.04	0.26	
19115.00	89.740	334.880	7745.36	6399.36	10311.24	10403.71	497.50	1736350.48	384741.38	39°33'9.2631"N	80°26'6.1117"W	10415.60	2.738	0.58	0.42	0.40	
19210.00	89.400	334.240	7746.07	6400.07	10400.47	10489.50	456.70	1736309.68	384827.17	39°33'10.1068"N	80°26'6.6441"W	10499.44	2.493	0.76	-0.36	-0.67	
19305.00	89.550	334.560	7746.94	6400.94	10489.61	10575.17	415.65	1736268.63	384912.84	39°33'10.9493"N	80°26'7.1795"W	10583.34	2.251	0.37	0.16	0.34	
19399.00	89.460	335.670	7747.75	6401.75	10578.21	10660.44	376.10	1736229.08	384998.11	39°33'11.7879"N	80°26'7.6958"W	10667.07	2.021	1.18	-0.10	1.18	
19495.00	89.580	336.120	7748.56	6402.56	10669.13	10748.06	336.89	1736189.87	385085.73	39°33'12.6499"N	80°26'8.2080"W	10753.34	1.795	0.49	0.12	0.47	
19589.00	89.120	335.520	7749.62	6403.62	10758.11	10833.81	298.39	1736151.37	385171.48	39°33'13.4934"N	80°26'8.7109"W	10837.92	1.578	0.80	-0.49	-0.64	



Actual Wellpath Report

Carnegie 19H Proj: 23521'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
19684.00	90.020	335.290	7750.34	6404.34	10847.81	10920.19	258.85	1736111.83	385257.86	39°33'14.3430"N	80°26'9.2271"W	10923.26	1.358	0.98	0.95	-0.24	
19779.00	89.860	335.540	7750.43	6404.43	10937.52	11006.58	219.33	1736072.31	385344.24	39°33'15.1928"N	80°26'9.7432"W	11008.76	1.142	0.31	-0.17	0.26	
19873.00	89.690	335.580	7750.80	6404.80	11026.37	11092.15	180.44	1736033.42	385429.82	39°33'16.0345"N	80°26'10.2511"W	11093.62	0.932	0.19	-0.18	0.04	
19968.00	89.700	335.560	7751.31	6405.31	11116.17	11178.64	141.15	1735994.13	385516.31	39°33'16.8853"N	80°26'10.7642"W	11179.54	0.723	0.02	0.01	-0.02	
20063.00	89.480	335.700	7751.99	6405.99	11205.99	11265.18	101.95	1735954.93	385602.85	39°33'17.7365"N	80°26'11.2762"W	11265.64	0.519	0.27	-0.23	0.15	
20158.00	89.880	335.770	7752.52	6406.52	11295.88	11351.78	62.91	1735915.89	385689.45	39°33'18.5884"N	80°26'11.7861"W	11351.96	0.318	0.43	0.42	0.07	
20253.00	89.640	335.430	7752.92	6406.92	11385.69	11438.30	23.67	1735876.65	385775.96	39°33'19.4394"N	80°26'12.2987"W	11438.32	0.119	0.44	-0.25	-0.36	
20348.00	89.450	335.020	7753.67	6407.67	11475.30	11524.55	-16.14	1735836.84	385862.22	39°33'20.2878"N	80°26'12.8184"W	11524.56	359.920	0.48	-0.20	-0.43	
20443.00	89.580	335.240	7754.48	6408.48	11564.85	11610.74	-56.09	1735796.89	385948.40	39°33'21.1355"N	80°26'13.3399"W	11610.87	359.723	0.27	0.14	0.23	
20633.00	89.670	335.280	7755.72	6409.72	11744.10	11783.30	-135.61	1735717.37	386120.96	39°33'22.8327"N	80°26'14.3781"W	11784.08	359.341	0.05	0.05	0.02	
20728.00	89.760	335.790	7756.19	6410.19	11833.88	11869.76	-174.95	1735678.03	386207.43	39°33'23.6833"N	80°26'14.8919"W	11871.05	359.156	0.55	0.09	0.54	
20823.00	89.610	335.550	7756.72	6410.72	11923.73	11956.33	-214.09	1735638.89	386293.99	39°33'24.5348"N	80°26'15.4031"W	11958.24	358.974	0.30	-0.16	-0.25	
20918.00	89.610	335.410	7757.36	6411.36	12013.47	12042.76	-253.51	1735599.47	386380.42	39°33'25.3849"N	80°26'15.9180"W	12045.42	358.794	0.15	0.00	-0.15	
21014.00	89.890	335.640	7757.78	6411.78	12104.19	12130.13	-293.29	1735559.69	386467.79	39°33'26.2443"N	80°26'16.4374"W	12133.67	358.615	0.38	0.29	0.24	
21108.00	89.640	335.840	7758.17	6412.17	12193.13	12215.83	-331.91	1735521.07	386553.49	39°33'27.0873"N	80°26'16.9419"W	12220.34	358.444	0.34	-0.27	0.21	
21204.00	89.830	335.260	7758.61	6412.61	12283.86	12303.22	-371.64	1735481.34	386640.88	39°33'27.9469"N	80°26'17.4609"W	12308.83	358.270	0.64	0.20	-0.60	
21299.00	89.890	335.690	7758.84	6412.84	12373.61	12389.65	-411.08	1735441.91	386727.31	39°33'28.7971"N	80°26'17.9759"W	12396.46	358.100	0.46	0.06	0.45	
21394.00	89.640	335.620	7759.23	6413.23	12463.45	12476.20	-450.24	1735402.74	386813.86	39°33'29.6484"N	80°26'18.4874"W	12484.32	357.933	0.27	-0.26	-0.07	
21488.00	89.730	335.590	7759.75	6413.75	12552.32	12561.80	-489.06	1735363.92	386899.47	39°33'30.4905"N	80°26'18.9945"W	12571.32	357.770	0.10	0.10	-0.03	
21583.00	89.920	336.240	7760.04	6414.04	12642.30	12648.53	-527.83	1735325.15	386986.20	39°33'31.3437"N	80°26'19.5010"W	12659.54	357.610	0.71	0.20	0.68	
21678.00	89.730	336.090	7760.33	6414.33	12732.42	12735.43	-566.22	1735286.76	387073.09	39°33'32.1985"N	80°26'20.0028"W	12748.01	357.454	0.25	-0.20	-0.16	
21773.00	89.730	334.780	7760.78	6414.78	12822.14	12821.83	-605.71	1735247.27	387159.49	39°33'33.0484"N	80°26'20.5185"W	12836.13	357.295	1.38	0.00	-1.38	
21868.00	89.700	334.370	7761.25	6415.25	12911.38	12907.63	-646.50	1735206.48	387245.29	39°33'33.8921"N	80°26'21.0507"W	12923.81	357.133	0.43	-0.03	-0.43	
21963.00	89.670	334.850	7761.77	6415.77	13000.64	12993.45	-687.23	1735165.75	387331.11	39°33'34.7361"N	80°26'21.5823"W	13011.61	356.972	0.51	-0.03	0.51	
22058.00	89.740	334.430	7762.26	6416.26	13089.92	13079.29	-727.92	1735125.06	387416.96	39°33'35.5803"N	80°26'22.1132"W	13099.53	356.815	0.45	0.07	-0.44	
22153.00	89.370	334.330	7763.00	6417.00	13179.06	13164.95	-769.00	1735083.99	387502.61	39°33'36.4226"N	80°26'22.6491"W	13187.39	356.657	0.40	-0.39	-0.11	
22248.00	89.580	335.110	7763.87	6417.87	13268.38	13250.85	-809.56	1735043.42	387588.51	39°33'37.2674"N	80°26'23.1785"W	13275.55	356.504	0.85	0.22	0.82	
22264.68†	89.520	334.977	7764.00	6418.00	13284.10	13265.97	-816.60	1735036.38	387603.63	39°33'37.4161"N	80°26'23.2704"W	13291.08	356.478	0.88	-0.36	-0.80	Onondaga
22343.00	89.240	334.350	7764.85	6418.85	13357.71	13336.75	-850.11	1735002.87	387674.41	39°33'38.1122"N	80°26'23.7078"W	13363.82	356.353	0.88	-0.36	-0.80	
22438.00	89.430	334.630	7765.95	6419.95	13446.90	13422.48	-891.02	1734961.96	387760.15	39°33'38.9553"N	80°26'24.2416"W	13452.03	356.202	0.36	0.20	0.29	



Actual Wellpath Report

Carnegie 19H Proj: 23521'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Carnegie 19H
Field	Marion	API	47-049-02529
Facility	Carnegie Pad	Wellbore	Carnegie 19H
Slot	Slot 19		

WELLPATH DATA (279 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
22533.00	89.520	334.670	7766.82	6420.82	13536.18	13508.33	-931.70	1734921.29	387846.00	39°33'39.7996"N	80°26'24.7723"W	13540.42	356.054	0.10	0.09	0.04	
22627.00	90.110	334.680	7767.12	6421.12	13624.54	13593.30	-971.91	1734881.08	387930.96	39°33'40.6352"N	80°26'25.2971"W	13628.00	355.910	0.63	0.63	0.01	Deepest Point of Well
22817.00	90.230	334.640	7766.56	6420.56	13803.13	13765.02	-1053.22	1734799.76	388102.68	39°33'42.3239"N	80°26'26.3583"W	13805.25	355.625	0.07	0.06	-0.02	
22912.00	89.920	334.340	7766.44	6420.44	13892.32	13850.75	-1094.14	1734758.85	388188.42	39°33'43.1670"N	80°26'26.8921"W	13893.90	355.483	0.45	-0.33	-0.32	
23102.00	90.020	334.440	7766.54	6420.54	14070.60	14022.09	-1176.26	1734676.72	388359.75	39°33'44.8519"N	80°26'27.9637"W	14071.34	355.205	0.07	0.05	0.05	
23196.00	89.960	334.740	7766.55	6420.55	14158.92	14106.99	-1216.60	1734636.39	388444.66	39°33'45.6868"N	80°26'28.4900"W	14159.36	355.071	0.33	-0.06	0.32	
23385.00	90.110	334.380	7766.44	6420.44	14336.45	14277.67	-1297.78	1734555.20	388615.33	39°33'47.3652"N	80°26'29.5495"W	14336.53	354.806	0.21	0.08	-0.19	
23417.00	90.260	334.970	7766.33	6420.33	14366.53	14306.59	-1311.47	1734541.51	388644.25	39°33'47.6497"N	80°26'29.7281"W	14366.58	354.762	1.90	0.47	1.84	Final Survey
23521.00†	90.260	334.970	7765.86	6419.86	14464.47	14400.82	-1355.47	1734497.51	388738.48	39°33'48.5765"N	80°26'30.3026"W	14464.47	354.623	0.00	0.00	0.00	Projection to TD

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Carnegie 19H - LP	7702.00	2380.16	4249.70	1740102.67	376717.85	39°31'50.3468"N	80°25'17.1589"W	point
Carnegie 19H - BHL	7759.90	14402.39	-1356.71	1734496.27	388740.05	39°33'48.5918"N	80°26'30.3186"W	point

WELLPATH COMPOSITION - Ref Wellbore: Carnegie 19H Ref Wellpath: Carnegie 19H Proj: 23521'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	986.00	BH Generic gyro - northseeking (Standard)	01 Gyro	Carnegie 19H	4/24/2024
986.00	7917.00	OWSG MWD rev2 - Standard	02 SDI MWD	Carnegie 19H	4/24/2024
7917.00	23521.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	03 BH Lucida+SuperiorQC IFR1+Sag+FDIR <8 1/2"> (8008' - 23417')	Carnegie 19H	7/3/2024



EQT PRODUCTION COMPANY

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

Slot: Slot 19
Well: Carnegie 19H
Wellbore: Carnegie 19H

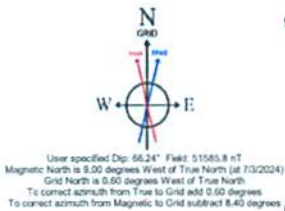
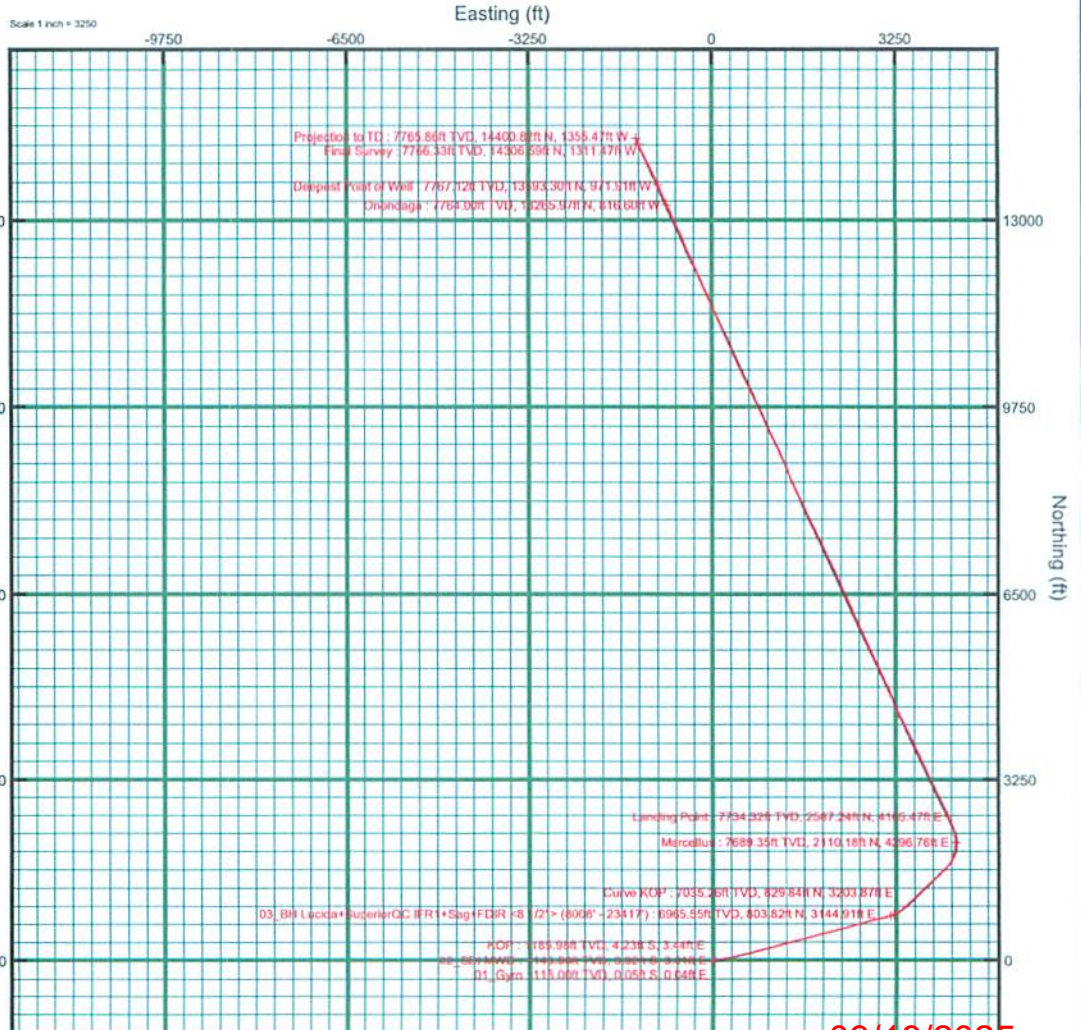
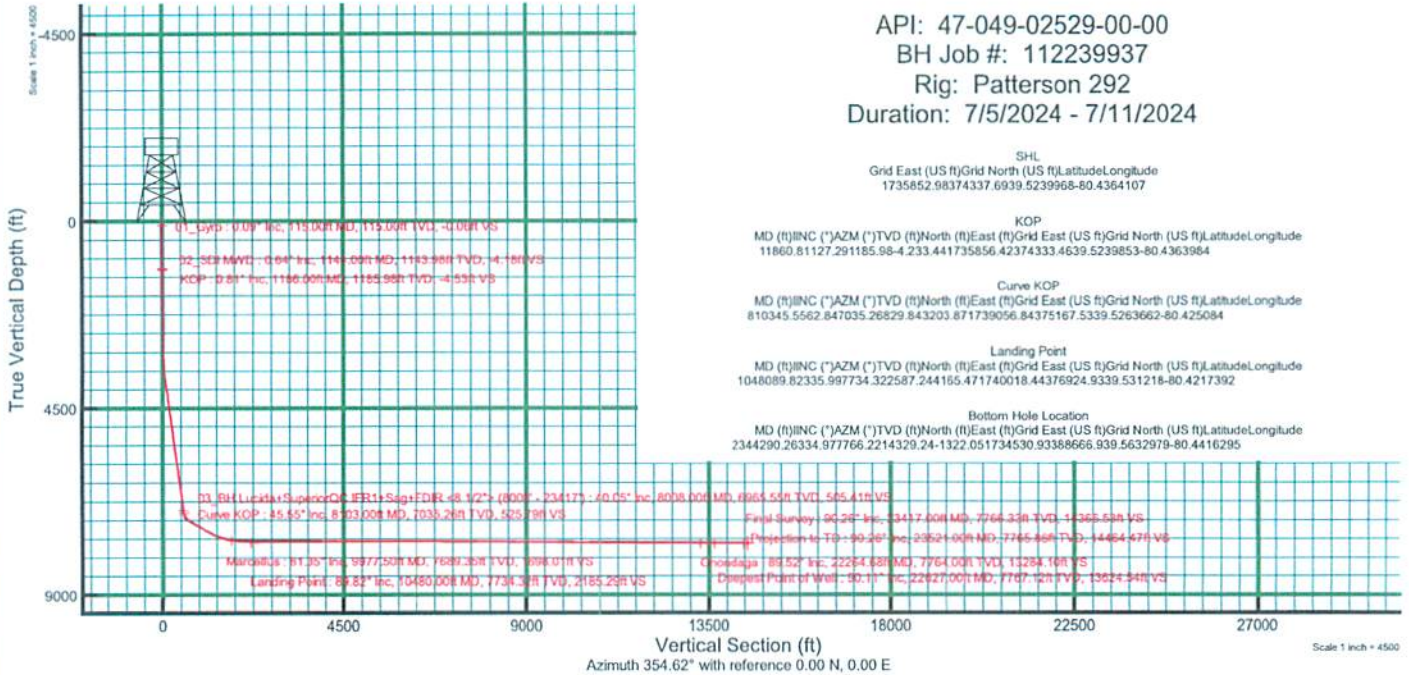


API: 47-049-02529-00-00

BH Job #: 112239937

Rig: Patterson 292

Duration: 7/5/2024 - 7/11/2024



09/19/2025