



Actual Wellpath Report

Longworth 103H AWP Proj: 12232'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 103H
Field	Marshall	API	47-051-02520-0000
Facility	Longworth Pad	Wellbore	Longworth 103H AWB
Slot	Slot #103		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	True	User	Edsaryar
Scale	0.999948	Report Generated	12/29/2024 at 7:33:58 PM
Convergence at slot	0.78° 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	39.49	-6.74	1624061.21	493123.11	39°50'50.6875"N	80°43'36.4743"W
Facility Reference Pt			1624067.41	493083.53	39°50'50.2972"N	80°43'36.3879"W
Field Reference Pt			1644569.15	516963.83	39°54'48.9720"N	80°39'17.4760"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 294 (RKB) to Facility Vertical Datum	1298.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	1298.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Mud Line at Slot (Slot #103)	28.00ft
MD Reference Pt	Patterson 294 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	342.40°

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Company	EQT OIL&GAS LLC	Well	Longworth 103H
Operator	Marshall	API	47-051-02520-0000
Field	Longworth Pad	Wellbore	Longworth 103H AWP
State	State of MO		

WELLPATH DATA (155 stations) † = interpolated, ‡ = extrapolated station

MD (ft)	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	OLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00	0.000	126.380	0.00	0.00	0.00	0.00	1624061.21	493123.11	39°50'50.6875"N	80°43'36.4743"W	0.00	0.000	0.00	0.00	0.00
90.00	0.000	126.380	28.00	0.00	0.00	0.00	1624061.21	493123.11	39°50'50.6875"N	80°43'36.4743"W	0.00	0.000	0.00	0.00	0.00
180.00	0.226	126.360	115.00	-0.18	-0.13	0.18	1624061.39	493122.98	39°50'50.6662"N	80°43'36.4720"W	0.22	126.380	-0.33	0.33	0.00
270.00	0.300	127.430	215.00	-0.60	-0.44	0.59	1624061.79	493122.66	39°50'50.6832"N	80°43'36.4867"W	0.74	126.754	0.01	0.01	0.00
360.00	0.313	117.560	315.00	-1.00	-0.72	1.04	1624062.24	493122.37	39°50'50.6804"N	80°43'36.4610"W	1.26	124.897	0.05	0.01	-0.05
450.00	0.290	137.160	415.00	-1.42	-1.03	1.45	1624062.64	493122.06	39°50'50.6773"N	80°43'36.4557"W	1.78	125.488	0.10	-0.02	0.00
540.00	0.255	122.210	514.99	-1.80	-1.32	1.78	1624062.98	493121.76	39°50'50.6745"N	80°43'36.4514"W	2.22	126.526	0.10	-0.07	0.00
630.00	0.200	134.030	614.99	-2.15	-1.58	2.11	1624063.30	493121.50	39°50'50.6719"N	80°43'36.4472"W	2.64	126.856	0.08	0.04	0.00
720.00	0.166	114.360	714.99	-2.43	-1.79	2.39	1624063.58	493121.28	39°50'50.6698"N	80°43'36.4436"W	2.99	126.856	0.13	-0.11	0.00
810.00	0.306	91.650	814.99	-2.62	-1.86	2.82	1624064.00	493121.22	39°50'50.6692"N	80°43'36.4382"W	3.37	123.382	0.22	0.20	-0.21
900.00	0.326	133.280	914.99	-2.97	-2.06	3.32	1624064.51	493121.01	39°50'50.6672"N	80°43'36.4317"W	3.91	121.731	0.24	-0.03	0.00
990.00	0.030	148.160	1014.99	-3.25	-2.28	3.55	1624064.73	493120.78	39°50'50.6650"N	80°43'36.4288"W	4.22	122.753	0.27	-0.27	0.00
1080.00	0.120	134.330	1114.99	-3.39	-2.59	3.65	1624064.83	493120.67	39°50'50.6639"N	80°43'36.4275"W	4.38	123.274	0.07	0.07	-0.83
1170.00	0.100	149.410	1214.99	-3.61	-2.59	3.80	1624064.97	493120.47	39°50'50.6620"N	80°43'36.4256"W	4.59	124.292	0.05	0.04	0.00
1260.00	0.200	124.950	1257.99	-3.73	-2.68	3.89	1624065.06	493120.37	39°50'50.6610"N	80°43'36.4244"W	4.72	124.612	0.20	0.09	0.00
1350.00	0.240	103.980	1280.99	-3.81	-2.73	4.00	1624065.17	493120.32	39°50'50.6605"N	80°43'36.4230"W	4.85	124.328	0.27	0.12	0.00
1440.00	0.200	83.450	1333.99	-3.88	-2.75	4.16	1624065.34	493120.31	39°50'50.6604"N	80°43'36.4209"W	4.99	123.404	0.20	-0.09	0.00
1530.00	0.090	275.890	1376.99	-3.88	-2.73	4.20	1624065.38	493120.32	39°50'50.6605"N	80°43'36.4204"W	5.02	123.033	0.67	-0.26	0.00
1620.00	0.600	264.370	1419.99	-3.80	-2.76	3.84	1624065.01	493120.30	39°50'50.6602"N	80°43'36.4250"W	4.73	125.719	1.84	1.84	-0.33
1710.00	2.350	261.450	1462.97	-3.59	-2.93	2.63	1624063.80	493120.15	39°50'50.6586"N	80°43'36.4405"W	3.94	138.062	3.49	3.49	-0.79
1800.00	5.380	259.780	1506.91	-3.28	-3.29	0.45	1624061.62	493119.81	39°50'50.6550"N	80°43'36.4685"W	3.32	172.211	2.28	2.27	-0.80
1890.00	5.570	262.380	1549.81	-2.82	-3.75	-2.49	1624059.60	493119.40	39°50'50.6505"N	80°43'36.5069"W	4.50	213.665	2.60	2.77	0.00
1980.00	5.500	263.100	1592.84	-2.14	-4.22	-6.24	1624054.91	493118.98	39°50'50.6458"N	80°43'36.5543"W	7.53	235.920	2.17	2.16	0.00
2070.00	5.270	266.650	1635.41	-1.18	-4.61	-10.63	1624050.52	493118.65	39°50'50.6420"N	80°43'36.6106"W	11.58	246.572	1.98	1.79	0.00
2160.00	8.100	267.570	1678.16	0.00	-4.84	-15.26	1624045.88	493118.48	39°50'50.6397"N	80°43'36.6699"W	16.00	252.399	0.46	-0.40	0.14
2250.00	5.130	292.140	1720.96	1.83	-4.21	-19.32	1624041.84	493119.16	39°50'50.6459"N	80°43'36.7220"W	19.77	257.701	5.97	-2.26	5.714
2340.00	4.360	316.070	1764.82	4.58	-2.27	-22.30	1624039.88	493121.15	39°50'50.6651"N	80°43'36.7602"W	22.42	264.199	4.78	-1.75	54.39
2430.00	3.680	345.720	1807.72	7.43	0.25	-23.78	1624037.44	493123.68	39°50'50.6900"N	80°43'36.7791"W	23.78	270.600	5.02	-1.56	106.00
2520.00	3.510	12.230	1850.63	9.98	2.91	-23.83	1624037.42	493126.34	39°50'50.7163"N	80°43'36.7798"W	24.01	276.951	3.89	-0.16	61.65
2610.00	3.090	33.050	1893.56	11.89	5.20	-22.91	1624038.37	493128.63	39°50'50.7390"N	80°43'36.7680"W	23.49	282.797	3.05	-1.21	48.42

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Operator	EQT CHAP LLC	Well	Longworth 103H
Field	Marshall	API	47-051-02520-0000
Facility	Longworth Pad	Wellbore	Longworth 103H AWB
Site	Slot #103		

WELLPATH DATA (155 stations)

Stn	Inclination (°)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	BLS (ft/100ft)	Build Rate (ft/100ft)	Tam Rate (ft/100ft)
1916.00	2.050	62.340	1936.50	12.81	6.67	-21.33	1624039.97	493130.07	39°50'50.7535"N	80°43'36.7478"W	22.35	287.367	3.53	-0.56	0.14
1963.00	7.510	82.240	1879.45	12.81	7.32	-19.30	1624042.01	493130.69	39°50'50.7598"N	80°43'36.7218"W	20.64	290.755	2.32	0.14	0.12
2004.00	3.200	97.530	2022.39	12.11	7.31	-17.03	1624044.28	493130.65	39°50'50.7697"N	80°43'36.6927"W	18.53	293.215	2.00	0.67	0.12
2060.00	3.050	105.670	2060.31	10.78	6.75	-14.39	1624046.91	493130.05	39°50'50.7542"N	80°43'36.6568"W	15.90	295.112	1.66	1.49	0.10
2111.00	3.300	109.010	2109.22	9.23	5.93	-11.82	1624049.48	493129.20	39°50'50.7462"N	80°43'36.6258"W	13.22	296.662	1.28	-1.14	0.10
2159.00	2.000	130.900	2162.17	7.80	5.00	-10.04	1624051.24	493128.24	39°50'50.7368"N	80°43'36.6030"W	11.21	296.467	3.73	-2.95	0.10
2207.00	1.040	105.610	2195.15	6.63	4.03	-9.24	1624052.03	493127.26	39°50'50.7273"N	80°43'36.5927"W	10.07	293.549	2.41	-1.74	0.14
2251.00	1.040	183.150	2223.15	6.07	3.47	-9.11	1624052.14	493126.71	39°50'50.7219"N	80°43'36.5911"W	9.75	290.860	2.28	-1.07	0.10
2295.00	1.200	219.930	2288.14	5.15	2.36	-9.58	1624051.66	493125.60	39°50'50.7109"N	80°43'36.5972"W	9.87	283.847	1.11	0.25	0.10
2332.00	1.280	247.790	2330.13	4.88	1.85	-10.29	1624050.94	493125.10	39°50'50.7058"N	80°43'36.6063"W	10.46	280.102	1.42	0.14	0.10
2375.00	0.710	297.050	2373.12	5.03	-1.79	-10.97	1624050.27	493125.05	39°50'50.7053"N	80°43'36.6149"W	11.11	279.284	2.24	-1.25	0.10
2411.00	1.350	17.850	2417.12	5.61	2.37	-11.06	1624050.18	493125.63	39°50'50.7110"N	80°43'36.6161"W	11.32	282.109	3.03	1.23	0.10
2450.00	3.130	30.850	2460.09	6.69	3.73	-10.38	1624050.89	493126.98	39°50'50.7244"N	80°43'36.6073"W	11.03	289.781	3.81	3.67	0.10
2490.00	4.000	40.480	2503.00	8.30	5.94	-8.72	1624052.67	493129.17	39°50'50.7463"N	80°43'36.5861"W	10.56	304.272	4.26	4.02	0.10
2510.00	0.670	44.300	2545.79	10.38	9.03	-5.87	1624055.47	493132.22	39°50'50.7768"N	80°43'36.5495"W	10.77	326.985	4.98	4.91	0.10
2539.00	0.080	48.870	2588.43	12.86	12.89	-1.92	1624059.47	493136.02	39°50'50.8149"N	80°43'36.4989"W	13.03	351.529	3.37	3.28	0.10
2619.00	0.560	46.930	2631.97	15.60	17.24	2.73	1624064.17	493140.31	39°50'50.8579"N	80°43'36.4393"W	17.45	9.000	1.09	1.09	0.10
2670.00	0.340	40.110	2674.45	18.36	21.71	7.71	1624069.21	493144.71	39°50'50.9020"N	80°43'36.3756"W	23.03	10.545	1.98	1.81	0.10
2721.00	0.580	51.350	2716.80	21.16	26.45	13.43	1624075.00	493149.38	39°50'50.9490"N	80°43'36.3021"W	29.67	26.909	3.02	2.88	0.10
2807.00	12.680	54.270	2801.03	26.93	36.89	27.24	1624088.95	493159.62	39°50'51.0521"N	80°43'36.1250"W	45.86	38.447	2.51	2.42	0.10
2875.00	15.150	53.480	2885.47	33.58	49.23	44.12	1624106.00	493171.73	39°50'51.1740"N	80°43'35.9066"W	66.11	41.871	2.87	2.86	0.10
2940.00	10.000	53.280	2967.74	41.74	64.15	64.20	1624126.28	493186.38	39°50'51.3215"N	80°43'35.6512"W	90.76	45.021	4.11	4.10	0.10
3000.00	21.010	52.960	3048.41	51.58	82.03	88.02	1624150.34	493203.03	39°50'51.4982"N	80°43'35.3458"W	120.32	47.017	3.69	3.68	0.10
3060.00	24.100	53.680	3126.64	62.43	101.88	114.66	1624177.25	493223.38	39°50'51.6942"N	80°43'35.0042"W	153.38	48.383	2.74	2.72	0.10
3110.00	20.990	54.330	3205.12	74.26	123.91	145.03	1624207.91	493245.02	39°50'51.9121"N	80°43'34.8148"W	190.76	49.400	3.22	3.21	0.10
3160.00	23.110	54.830	3281.03	86.62	147.33	177.97	1624241.16	493267.98	39°50'52.1435"N	80°43'34.1925"W	231.04	50.381	2.51	2.51	0.10
3210.00	1.290	54.340	3355.35	99.86	172.40	213.22	1624276.75	493292.57	39°50'52.3913"N	80°43'33.7406"W	274.19	51.042	2.65	2.53	0.10
3260.00	31.840	52.440	3428.71	114.48	199.17	249.24	1624313.14	493318.85	39°50'52.6559"N	80°43'33.2787"W	319.05	51.372	1.22	0.41	0.10
3310.00	32.030	51.380	3501.48	130.65	227.47	295.34	1624349.62	493346.85	39°50'52.9355"N	80°43'32.8159"W	364.92	51.438	1.63	1.36	0.10
3360.00	30.110	83.170	3575.65	146.20	255.28	321.24	1624385.89	493373.96	39°50'53.2103"N	80°43'32.3556"W	410.32	51.527	3.31	-3.13	2.06

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Field	Marshall	API	47-051-02520-0000
Location	Longworth Pad	Wellbore	Longworth 103H AWP
State	State of MD		

WELLPATH DATA (155 stations)

Station	Depth (ft)	Azimuth (°)	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Closure Dist (ft)	Closure Dir (°)	DLS (ft/100ft)	Build Rate (ft/100ft)	Twist Rate (ft/100ft)
1000.00	29.210	54.190	3650.35	159.88	280.53	355.58	1624420.57	493398.74	39°50'53.4598"N	80°43'31.9153"W	452.91	51.729	1.10	-0.93	1.10
1010.00	29.857	52.720	3725.51	173.45	305.41	389.16	1624454.48	493423.16	39°50'53.7057"N	80°43'31.4848"W	484.69	51.875	0.99	-0.53	1.10
1020.00	30.500	52.500	3801.83	187.56	330.75	422.35	1624488.02	493448.04	39°50'53.9562"N	80°43'31.0592"W	526.45	51.935	0.39	-0.38	1.10
1030.00	30.190	53.800	3877.56	200.99	355.18	454.98	1624520.97	493472.03	39°50'54.1976"N	80°43'30.6408"W	577.20	52.023	0.80	-0.52	1.10
1040.00	28.330	54.350	3954.20	213.67	379.22	488.16	1624554.48	493495.61	39°50'54.4352"N	80°43'30.2154"W	618.16	52.159	0.31	0.07	0.50
1050.00	27.080	52.220	4030.23	227.09	403.36	520.54	1624587.18	493519.31	39°50'54.6738"N	80°43'29.8003"W	658.53	52.228	1.20	-0.28	0.10
1060.00	27.610	50.260	4107.29	241.65	428.63	552.02	1624619.01	493544.14	39°50'54.9234"N	80°43'29.3866"W	698.89	52.172	1.17	-0.55	0.10
1070.00	27.210	50.460	4183.68	256.47	453.83	582.45	1624649.78	493568.92	39°50'55.1725"N	80°43'29.0064"W	738.39	52.075	0.17	-0.14	0.10
1080.00	26.510	50.870	4259.69	271.37	479.33	613.58	1624681.24	493593.99	39°50'55.4245"N	80°43'28.6074"W	778.61	52.003	1.42	1.41	0.00
1090.00	25.650	51.850	4335.76	286.50	505.74	646.50	1624714.52	493618.95	39°50'55.6855"N	80°43'28.1862"W	820.82	51.965	1.28	1.21	0.00
1100.00	25.420	54.670	4410.62	300.54	531.12	680.37	1624748.73	493644.86	39°50'55.9383"N	80°43'27.7510"W	863.13	52.023	1.73	-0.14	1.50
1110.00	24.700	57.760	4485.41	312.37	554.72	715.66	1624784.34	493667.98	39°50'56.1695"N	80°43'27.2984"W	905.48	52.220	1.82	0.38	1.00
1120.00	24.010	57.710	4559.63	323.30	577.91	752.39	1624821.38	493690.66	39°50'56.3987"N	80°43'26.8275"W	948.72	52.472	1.34	1.34	0.00
1130.00	23.750	65.780	4633.96	335.57	602.71	790.19	1624859.51	493714.94	39°50'56.6437"N	80°43'26.3429"W	993.81	52.666	1.47	0.92	0.20
1140.00	23.220	54.510	4707.12	348.98	628.54	827.29	1624896.96	493740.26	39°50'56.8990"N	80°43'25.8673"W	1038.98	52.774	0.78	0.01	-1.40
1150.00	21.430	53.910	4772.73	361.96	652.11	859.98	1624929.97	493763.38	39°50'57.1319"N	80°43'25.4481"W	1079.26	52.827	0.58	-0.42	-0.70
1160.00	21.230	55.550	4847.06	375.29	678.22	896.90	1624967.24	493788.99	39°50'57.3900"N	80°43'24.9747"W	1124.46	52.904	1.00	-0.18	1.40
1170.00	21.050	54.420	4920.66	388.60	703.74	933.33	1625004.01	493814.01	39°50'57.6422"N	80°43'24.5077"W	1168.91	52.993	0.71	-0.22	-4.10
1180.00	21.020	54.650	4994.39	402.18	729.43	969.38	1625040.41	493839.20	39°50'57.8960"N	80°43'24.0453"W	1213.17	53.040	0.20	-0.15	0.20
1190.00	21.070	54.720	5068.97	415.81	755.33	1005.84	1625077.32	493864.58	39°50'58.1520"N	80°43'23.5766"W	1257.95	53.098	0.18	0.17	0.00
1200.00	21.510	56.050	5142.46	428.88	780.70	1042.70	1625114.42	493889.46	39°50'58.4026"N	80°43'23.1052"W	1302.58	53.177	0.95	0.51	1.50
1210.00	21.580	57.440	5216.14	440.86	805.02	1079.78	1625151.83	493913.27	39°50'58.6430"N	80°43'22.6296"W	1346.85	53.294	1.37	-1.08	1.00
1220.00	20.280	57.960	5290.68	451.74	827.95	1116.04	1625188.39	493935.70	39°50'58.8896"N	80°43'22.1649"W	1389.62	53.430	1.56	-1.53	0.00
1230.00	20.000	56.500	5366.79	462.77	850.75	1151.47	1625224.13	493958.01	39°50'59.0949"N	80°43'21.7106"W	1431.66	53.542	1.05	-0.67	-1.00
1240.00	20.010	55.360	5442.16	474.51	873.96	1185.78	1625258.75	493980.75	39°50'59.3242"N	80°43'21.2707"W	1473.05	53.608	0.89	0.27	-1.30
1250.00	20.440	53.600	5509.71	485.85	895.39	1215.87	1625289.13	494001.77	39°50'59.5361"N	80°43'20.8848"W	1509.99	53.631	1.21	-0.61	-2.10
1260.00	20.240	51.080	5585.41	495.82	920.30	1248.20	1625321.80	494026.23	39°50'59.7822"N	80°43'20.4703"W	1550.80	53.599	1.46	-0.23	-1.00
1270.00	20.800	47.650	5660.98	515.99	947.04	1279.35	1625353.30	494052.55	39°51'00.0464"N	80°43'20.0710"W	1591.73	53.488	2.01	0.65	-3.00
1280.00	23.080	47.870	5737.11	533.61	975.48	1310.39	1625384.73	494080.56	39°51'00.3275"N	80°43'19.6728"W	1633.62	53.335	0.37	0.33	-0.50
1290.00	29.190	46.570	5812.23	550.93	1003.52	1341.50	1625416.21	494108.16	39°51'00.6045"N	80°43'19.2741"W	1675.31	53.201	0.69	0.12	1.40

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Actual Wellpath Report

Longworth 103H AWP Proj: 12232'

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REFERENCE WELLPATH IDENTIFICATION

Client	EQT O&AP LLC	Well	Longworth 103H
Asset	Marshall	API	47-051-02520-0000
Project	Longworth Pad	Wellbore	Longworth 103H AWP
UWI	40N 41W		

WELLPATH DATA (155 stations)

Stn	Station	Altitude [ft]	TVD [ft]	Vert. Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0000.00	0.00	49.780	5887.01	587.86	1031.27	1373.63	1625448.72	494135.47	39°51'0.8788"N	80°43'18.8621"W	1717.67	53.102	1.15	0.92	0.00
0000.25	0.25	51.390	5958.93	583.06	1057.58	1405.64	1625481.08	494161.34	39°51'1.1388"N	80°43'18.4516"W	1759.06	53.043	0.97	-0.07	1.00
0000.50	0.50	52.390	6007.45	592.86	1074.84	1427.64	1625503.32	494178.30	39°51'1.3093"N	80°43'18.1695"W	1787.02	53.025	0.90	0.14	1.00
0000.75	0.75	38.300	8088.61	614.44	1108.14	1461.24	1625537.37	494211.13	39°51'1.6384"N	80°43'17.7387"W	1833.90	52.825	7.63	0.90	10.00
0001.00	1.00	21.300	8169.17	648.58	1151.78	1485.92	1625562.64	494254.44	39°51'2.0697"N	80°43'17.4222"W	1890.04	52.220	9.90	2.80	10.00
0001.25	1.25	6.870	8245.34	695.49	1205.12	1498.93	1625576.37	494307.58	39°51'2.5968"N	80°43'17.2554"W	1923.30	51.201	10.37	5.29	10.00
0001.50	1.50	305.910	6315.86	754.03	1267.10	1500.71	1625579.00	494369.53	39°51'3.2093"N	80°43'17.2326"W	1964.09	49.824	9.45	6.28	-10.00
0001.75	1.75	351.070	6379.71	822.87	1336.93	1493.16	1625572.41	494399.45	39°51'3.8994"N	80°43'17.3293"W	2004.22	48.160	8.45	7.13	-10.00
0002.00	2.00	366.300	6433.46	899.43	1412.41	1477.90	1625555.18	494515.13	39°51'4.6453"N	80°43'17.5249"W	2044.28	48.298	9.39	8.43	-5.00
0002.25	2.25	397.320	6475.49	983.32	1492.03	1451.47	1625532.84	494595.10	39°51'5.4322"N	80°43'17.8637"W	2081.57	44.211	12.65	9.34	-9.50
0002.50	2.50	328.300	6505.07	1071.86	1571.86	1410.30	1625492.76	494675.48	39°51'6.2212"N	80°43'18.3915"W	2111.80	41.699	11.57	7.28	-9.40
0002.75	2.75	393.590	6525.12	1160.03	1648.01	1358.77	1625442.28	494752.32	39°51'6.9737"N	80°43'19.0522"W	2135.93	39.505	8.87	7.30	-8.00
0003.00	3.00	320.280	6538.04	1247.47	1721.48	1301.22	1625365.74	494826.58	39°51'7.6999"N	80°43'19.7901"W	2157.94	37.084	4.90	3.43	-8.50
0003.25	3.25	318.830	6544.60	1334.68	1793.49	1239.84	1625325.36	494898.41	39°51'8.4115"N	80°43'20.5770"W	2180.32	34.658	1.54	-0.23	-1.00
0003.50	3.50	319.080	6550.39	1420.72	1864.24	1178.24	1625264.73	494970.99	39°51'9.1107"N	80°43'21.3688"W	2205.37	32.294	3.72	3.71	0.00
0003.75	3.75	320.140	6552.22	1508.28	1936.58	1116.70	1625204.19	495044.16	39°51'9.8257"N	80°43'22.1559"W	2235.48	29.969	1.83	1.45	1.10
0004.00	4.00	321.370	6552.74	1596.58	2010.15	1056.60	1625145.10	495118.54	39°51'10.5528"N	80°43'22.8264"W	2270.93	27.728	1.31	0.20	1.20
0004.25	4.25	321.220	6553.28	1684.28	2083.50	997.82	1625087.33	495192.68	39°51'11.2777"N	80°43'23.6800"W	2310.12	25.590	0.28	-0.23	-0.10
0004.50	4.50	321.700	6552.68	1773.00	2157.81	936.63	1625029.17	495267.78	39°51'12.0120"N	80°43'24.4389"W	2353.12	23.509	1.77	1.65	0.00
0004.75	4.75	321.040	6551.18	1860.72	2231.23	879.96	1624971.51	495341.99	39°51'12.7377"N	80°43'25.1912"W	2398.48	21.523	0.89	-0.55	-0.00
0005.00	5.00	320.800	6550.09	1948.19	2304.19	820.70	1624913.26	495415.76	39°51'13.4588"N	80°43'25.9510"W	2445.99	19.605	0.26	0.03	-0.00
0005.25	5.25	320.440	6548.85	2035.47	2376.84	761.07	1624854.62	495489.21	39°51'14.1768"N	80°43'26.7156"W	2495.72	17.755	0.41	0.16	-0.10
0005.50	5.50	316.480	6547.55	2122.27	2447.93	698.09	1624792.62	495561.15	39°51'14.8793"N	80°43'27.5231"W	2545.52	15.917	4.17	-0.08	-0.10
0005.75	5.75	318.260	6546.56	2208.34	2517.82	633.76	1624729.25	495631.90	39°51'15.5700"N	80°43'28.3480"W	2596.35	14.128	1.90	-0.29	1.00
0006.00	6.00	317.900	6545.80	2294.00	2587.76	570.96	1624667.42	495702.69	39°51'16.2612"N	80°43'29.1532"W	2650.00	12.442	0.38	0.00	-0.00
0006.25	6.25	322.790	6544.48	2381.08	2660.10	510.99	1624608.45	495775.84	39°51'16.9761"N	80°43'29.9221"W	2708.74	10.874	5.26	0.70	0.00
0006.50	6.50	321.850	6542.91	2470.29	2735.28	452.93	1624551.43	495851.80	39°51'17.7191"N	80°43'30.6665"W	2772.52	9.402	1.10	-0.48	0.00
0006.75	6.75	322.080	6541.68	2558.37	2809.31	395.02	1624494.53	495926.61	39°51'18.4507"N	80°43'31.4091"W	2836.94	8.004	0.25	0.06	0.00
0007.00	7.00	322.610	6540.59	2647.60	2884.51	336.99	1624437.54	496002.60	39°51'19.1938"N	80°43'32.1532"W	2904.13	6.664	0.60	-0.22	0.00
0007.25	7.25	323.640	6538.29	2736.30	2959.68	280.60	1624382.18	496078.53	39°51'19.9368"N	80°43'32.8762"W	2972.95	5.416	2.11	1.80	1.10

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Actual Wellpath Report

Longworth 103H AWP Proj: 12232'
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REFERENCE WELLPATH IDENTIFICATION

Owner	EQT CHAP LLC	Well	Longworth 103H
Field	Marshall	API	47-051-02520-0000
Location	Longworth Pad	Wellbore	Longworth 103H AWB
State	Utah & ID		

Well Path Data (155 stations)

Stn	Information	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
1000.00	0.000	322.800	6536.36	2826.00	3035.75	223.74	1624326.37	496155.30	39°51'20.6885"N	80°43'33.6054"W	3043.98	4.215	2.46	-2.29	0.00
1000.50	0.000	322.720	6536.10	2915.48	3111.38	166.25	1624269.92	498231.76	39°51'21.4380"N	80°43'34.3425"W	3115.82	3.059	0.21	0.18	0.00
1001.00	0.000	321.760	6535.48	3003.71	3185.69	108.69	1624213.38	496308.85	39°51'22.1704"N	80°43'35.0806"W	3187.55	1.954	1.06	0.30	0.00
1001.50	0.000	323.570	6533.74	3093.12	3261.21	51.09	1624156.82	496383.14	39°51'22.9167"N	80°43'35.8192"W	3261.61	0.897	2.18	1.00	0.00
1002.00	0.000	323.320	6531.69	3182.84	3337.50	-5.48	1624101.30	496460.20	39°51'23.6707"N	80°43'36.5446"W	3337.51	-359.906	0.69	-0.84	-0.00
1002.50	0.000	322.510	6530.69	3272.40	3413.28	-82.76	1624045.06	496536.75	39°51'24.4196"N	80°43'37.2791"W	3413.66	358.947	1.09	-0.60	-0.00
1003.00	0.000	322.310	6529.95	3360.83	3487.77	-120.10	1623998.75	496612.00	39°51'25.1556"N	80°43'38.0143"W	3489.83	358.028	0.42	0.30	0.00
1003.50	0.000	321.750	6529.28	3449.88	3562.66	-178.55	1623931.33	496687.88	39°51'25.8957"N	80°43'38.7638"W	3567.13	357.131	0.74	-0.45	0.00
1004.00	0.000	321.370	6528.13	3538.60	3637.06	-237.60	1623873.30	496762.88	39°51'26.6310"N	80°43'39.5211"W	3644.81	356.262	1.14	1.06	0.00
1004.50	0.000	321.470	6526.36	3627.35	3711.31	-296.84	1623815.09	496837.83	39°51'27.3648"N	80°43'40.2806"W	3723.16	355.427	0.30	-0.28	0.00
1005.00	0.000	322.360	6524.77	3716.33	3786.08	-355.43	1623757.53	496913.48	39°51'28.1037"N	80°43'41.0319"W	3802.72	354.637	0.94	0.00	0.00
1005.50	0.000	321.570	6524.05	3805.34	3860.90	-413.96	1623700.03	496989.09	39°51'28.8431"N	80°43'41.7825"W	3883.02	353.880	1.43	-1.17	0.00
1006.00	0.000	320.720	6523.54	3893.88	3934.87	-473.55	1623641.46	497063.87	39°51'29.5742"N	80°43'42.5467"W	3963.27	353.136	1.27	0.91	-0.00
1006.50	0.000	322.080	6522.08	3982.56	4009.11	-532.81	1623583.22	497138.90	39°51'30.3078"N	80°43'43.3067"W	4044.36	352.430	1.46	0.20	0.00
1007.00	0.000	321.390	6520.89	4070.50	4082.91	-591.02	1623526.02	497213.49	39°51'31.0371"N	80°43'44.0531"W	4125.46	351.763	0.97	-0.63	0.00
1007.50	0.000	319.280	6520.65	4159.46	4156.80	-652.30	1623465.77	497288.21	39°51'31.7673"N	80°43'44.8388"W	4207.67	351.082	-2.28	-0.60	0.00
1008.00	0.000	321.050	6520.47	4247.39	4229.75	-713.15	1623405.92	497361.97	39°51'32.4882"N	80°43'45.6192"W	4289.45	350.430	1.94	0.55	0.00
1008.50	0.000	321.040	6520.24	4334.94	4302.84	-772.25	1623347.83	497435.87	39°51'33.2106"N	80°43'46.3771"W	4371.59	349.825	0.49	-0.49	0.00
1009.00	0.000	320.480	6520.39	4422.31	4375.85	-831.71	1623289.37	497509.47	39°51'33.9300"N	80°43'47.1396"W	4453.99	349.238	0.60	0.00	0.00
1009.50	0.000	320.770	6520.13	4510.53	4449.08	-891.97	1623230.12	497583.72	39°51'34.6557"N	80°43'47.9124"W	4537.62	348.663	0.60	0.52	0.00
1100.00	0.000	321.280	6519.72	4598.07	4522.16	-951.10	1623172.00	497657.58	39°51'35.3778"N	80°43'48.6706"W	4621.09	348.123	0.83	-0.30	0.00
1100.50	0.000	320.010	6519.55	4687.23	4596.39	-1011.97	1623112.15	497732.64	39°51'36.1115"N	80°43'49.4513"W	4706.47	347.583	1.32	0.00	0.00
1101.00	0.000	320.310	6518.79	4774.23	4668.56	-1072.19	1623052.92	497805.63	39°51'36.8247"N	80°43'50.2235"W	4790.10	347.066	0.84	0.78	0.00
1101.50	0.000	321.230	6517.30	4861.62	4747.40	-1131.59	1622994.53	497879.26	39°51'37.5445"N	80°43'50.9853"W	4874.56	346.577	1.06	0.17	0.00
1102.00	0.000	320.650	6516.12	4850.04	4815.19	-1181.41	1622935.72	497953.86	39°51'38.2737"N	80°43'51.7525"W	4960.30	346.103	0.90	-0.59	0.00
1102.50	0.000	320.940	6514.66	4938.36	4888.79	-1251.45	1622876.70	498028.27	39°51'39.0010"N	80°43'52.5225"W	5046.43	345.642	1.00	0.95	0.00
1103.00	0.000	321.430	6513.04	5126.90	4962.80	-1310.59	1622818.18	498103.08	39°51'39.7324"N	80°43'53.2860"W	5133.04	345.203	0.81	-0.75	0.00
1103.50	0.000	320.440	6512.25	5215.31	5036.56	-1370.88	1622759.33	498177.65	39°51'40.4613"N	80°43'54.0538"W	5219.79	344.774	1.08	-0.23	0.00
1104.00	0.000	320.630	6511.58	5302.55	5109.13	-1430.60	1622700.58	498251.02	39°51'41.1784"N	80°43'54.8200"W	5305.84	344.357	0.24	0.14	0.00
1104.50	0.000	320.200	6510.76	5380.63	5182.34	-1491.14	1622641.06	498325.05	39°51'41.9019"N	80°43'55.5863"W	5392.80	343.948	0.40	0.00	-0.45

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 103H
Field	Marshall	API	47-051-02520-0000
Facility	Longworth Pad	Wellbore	Longworth 103H AWB
Slot	Slot #103		

WELLPATH DATA (155 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
11952.00	-90.620	320.650	6509.80	5478.73	5255.56	-1551.66	1622581.54	498399.09	39°51'42.6255"N	80°43'56.3724"W	5479.83	343.551	0.48	0.09	0.47
12050.00	-90.620	320.700	6508.78	5566.04	5328.27	-1611.22	1622522.98	498472.60	39°51'43.3440"N	80°43'57.1364"W	5566.55	343.175	0.05	0.00	0.00
12141.00	-90.530	321.150	6507.83	5654.44	5402.02	-1671.10	1622464.12	498547.15	39°51'44.0728"N	80°43'57.9043"W	5654.59	342.811	0.48	-0.09	0.47
12207.00	-90.310	320.560	6507.35	5715.83	5453.20	-1712.76	1622423.16	498598.90	39°51'44.5786"N	80°43'58.4386"W	5715.85	342.563	0.95	-0.33	-0.89
12232.00†	-90.310	320.560	6507.21	5739.04	5472.51	-1728.65	1622407.64	498618.42	39°51'44.7694"N	80°43'58.6423"W	5739.04	342.470	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Longworth 103H AWB Ref Wellpath: Longworth 103H AWP Proj: 12232'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	28.00	68.00	40.00	28.00	68.00	0.00	0.00	-0.03	0.04
17.5in Open Hole	68.00	1270.00	1202.00	68.00	1269.99	-0.03	0.04	-2.70	3.92
13.375in Casing Surface	28.00	1270.00	1242.00	28.00	1269.99	0.00	0.00	-2.70	3.92
12.25in Open Hole	1270.00	2257.00	987.00	1269.99	2255.14	-2.70	3.92	2.91	-9.24
9.625in Casing Intermediate	28.00	2257.00	2229.00	28.00	2255.14	0.00	0.00	2.91	-9.24
8.75in Open Hole	2257.00	6486.00	4229.00	2255.14	6025.63	2.91	-9.24	1081.48	1435.78
8.5in Open Hole	6486.00	12232.00	5746.00	6025.63	6507.21	1081.48	1435.78	5472.51	-1728.65
5.5in Casing Production	28.00	12232.00	12204.00	28.00	6507.21	0.00	0.00	5472.51	-1728.65

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 103H
Field	Marshall	API	47-051-02520-0000
Facility	Longworth Pad	Wellbore	Longworth 103H AWB
Slot	Slot #103		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Longworth 103H BHL Rev-1	6528.00	5474.29	-1736.51	1622399.71	498620.31	39°51'44.7870"N	80°43'58.7432"W	point
Longworth 103H LP Rev-1	6528.00	1706.70	1318.05	1625402.37	494811.57	39°51'17.5538"N	80°43'19.5743"W	point

WELLPATH COMPOSITION - Ref Wellbore: Longworth 103H AWB Ref Wellpath: Longworth 103H AWP Proj: 12232'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1258.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro <17-1/2"> (100'-1243')	Longworth 103H AWB	12/18/2024
1258.00	2225.00	OWSG MWD rev2 + HRGM	02 SDI MWD <12-1/4"> (1243')(1276'-2210')	Longworth 103H AWB	12/18/2024
2225.00	6409.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4"> (2210')(2275'-6394')	Longworth 103H AWB	12/18/2024
6409.00	12232.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH AT Curve+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6409')(6465'-12207')	Longworth 103H AWB	12/24/2024

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Actual Wellpath Report

Longworth 103H AWP Proj: 12232'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 103H
Field	Marshall	API	47-051-02520-0000
Facility	Longworth Pad	Wellbore	Longworth 103H AWB
Shot	Slot #103		

COMMENTS

Wellpath general comments

API: 47-051-02520-0000

BH Job #: 112518259

Rig: Patterson 294

Duration: 12/25/2024-12/26/2024

Gyrodata Cont. Gyro <17-1/2"> (100'-1243')

SDI MWD <12-1/4"> (1243')(1276'-2210')

SDI MWD <8-3/4"> (2210')(2275'-6394')

BH AT Curve+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6409')(6465'-12207')

Projected MD at TD: 12232'

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EQT CHAP LLC

Location: Marshall County, WV
Field: Marshall
Facility: Longworth Pad

Slot: Slot #103
Well: Longworth 103H
Wellbore: Longworth 103H AWB



KB Elevation=1298 FT
Ground Elevation=1270 FT
All Survey Measurements were taken from KB Elevation

