



Actual Wellpath Report

Longworth 101H AWP Proj: 13274'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 101H
Field	Marshall	API	47-051-02519-0000
Facility	Longworth Pad	Wellbore	Longworth 101H AWP
Slot	Slot #101		

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 4:39:29 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	47.82	-19.22	1624048.85	493131.61	39°50'50.7699"N	80°43'36.6342"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 #101)	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	307.39°

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Field	Marshall	API	47-051-02519-0000
Facility	Longworth Pad	Wellbore	Longworth 101H AWP
Stat	Stat #101		

WELLPATH DATA (163 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00	0.000	47.310	0.00	0.00	0.00	0.00	1624048.85	493131.61	39°50'50.7699"N	80°43'36.6342"W	0.00	0.000	0.00	0.00	0.00
70.00	0.000	47.310	28.00	0.00	0.00	0.00	1624048.85	493131.61	39°50'50.7699"N	80°43'36.6342"W	0.00	0.000	0.00	0.00	0.00
140.00	0.200	47.310	115.00	-0.03	0.13	0.15	1624049.00	493131.74	39°50'50.7712"N	80°43'36.6324"W	0.20	47.310	0.30	0.30	0.00
210.00	0.450	51.140	215.00	-0.10	0.37	0.41	1624049.27	493131.97	39°50'50.7735"N	80°43'36.6289"W	0.55	48.213	0.11	-0.11	3.63
280.00	0.230	59.750	315.00	-0.21	0.55	0.69	1624049.55	493132.15	39°50'50.7753"N	80°43'36.6254"W	0.88	51.251	0.08	0.08	0.61
350.00	0.130	67.360	415.00	-0.34	0.70	0.97	1624049.83	493132.29	39°50'50.7768"N	80°43'36.6218"W	1.19	54.189	0.10	-0.10	7.61
420.00	0.090	103.380	515.00	-0.47	0.73	1.14	1624050.00	493132.32	39°50'50.7770"N	80°43'36.6196"W	1.35	57.528	0.08	-0.05	38.02
490.00	0.150	82.380	615.00	-0.62	0.73	1.34	1624050.20	493132.32	39°50'50.7770"N	80°43'36.6171"W	1.52	61.488	0.08	0.07	-21.00
560.00	0.090	56.200	715.00	-0.74	0.79	1.53	1624050.39	493132.38	39°50'50.7776"N	80°43'36.6146"W	1.72	62.800	0.08	-0.06	-26.18
630.00	0.220	77.000	815.00	-0.89	0.87	1.78	1624050.65	493132.46	39°50'50.7785"N	80°43'36.6114"W	1.99	63.897	0.14	0.13	-20.90
700.00	0.090	73.170	915.00	-1.06	0.94	2.05	1624050.91	493132.52	39°50'50.7792"N	80°43'36.6080"W	2.25	65.326	0.13	-0.13	-3.83
770.00	0.180	58.700	1015.00	-1.16	1.04	2.26	1624051.12	493132.62	39°50'50.7802"N	80°43'36.6053"W	2.49	65.156	0.10	0.09	-14.47
840.00	0.140	95.150	1115.00	-1.32	1.12	2.51	1624051.38	493132.69	39°50'50.7809"N	80°43'36.6020"W	2.75	66.061	0.11	-0.04	36.45
910.00	0.290	58.410	1215.00	-1.51	1.24	2.85	1624051.72	493132.81	39°50'50.7821"N	80°43'36.5977"W	3.11	66.535	0.20	0.15	-30.74
980.00	0.180	70.240	1253.99	-1.58	1.31	2.89	1624051.86	493132.88	39°50'50.7828"N	80°43'36.5959"W	3.27	66.359	0.31	-0.28	30.33
1050.00	0.080	40.630	1288.99	-1.61	1.35	3.06	1624051.93	493132.91	39°50'50.7832"N	80°43'36.5950"W	3.34	66.241	0.34	-0.29	-84.60
1120.00	0.440	346.100	1331.99	-1.49	1.53	3.04	1624051.91	493133.10	39°50'50.7850"N	80°43'36.5953"W	3.40	63.282	0.93	0.84	-126.81
1190.00	0.910	314.520	1375.99	-1.01	1.94	2.75	1624051.63	493133.51	39°50'50.7890"N	80°43'36.5990"W	3.36	54.810	1.32	1.07	-71.77
1260.00	1.460	304.540	1418.98	-0.12	2.49	2.05	1624050.94	493134.07	39°50'50.7945"N	80°43'36.6079"W	3.23	39.541	1.36	1.28	-23.23
1330.00	2.060	289.920	1461.96	1.16	3.06	0.88	1624049.77	493134.66	39°50'50.8001"N	80°43'36.6230"W	3.19	15.973	1.73	1.40	-31.00
1400.00	3.060	285.370	1504.92	2.97	3.63	-0.96	1624047.94	493135.25	39°50'50.8058"N	80°43'36.6466"W	3.76	345.136	2.42	2.37	-10.58
1470.00	3.770	277.310	1548.84	5.32	4.13	-3.54	1624045.37	493135.79	39°50'50.8107"N	80°43'36.6796"W	5.44	319.406	1.91	1.57	-18.32
1540.00	4.680	278.430	1591.72	8.14	4.58	-6.75	1624042.16	493136.28	39°50'50.8151"N	80°43'36.7208"W	8.16	304.142	2.59	2.58	-2.60
1610.00	5.270	275.270	1634.55	11.42	5.03	-10.53	1624038.39	493136.78	39°50'50.8195"N	80°43'36.7692"W	11.66	295.528	1.12	0.91	-7.35
1680.00	5.970	275.580	1677.34	14.99	5.43	-14.72	1624034.21	493137.24	39°50'50.8235"N	80°43'36.8229"W	15.69	290.237	1.63	1.63	0.72
1750.00	5.410	270.250	1720.13	18.62	5.86	-18.96	1624029.97	493137.73	39°50'50.8278"N	80°43'36.8773"W	19.84	287.187	1.31	-1.30	1.56
1820.00	4.750	277.720	1762.96	21.91	6.32	-22.74	1624026.20	493138.24	39°50'50.8324"N	80°43'36.9258"W	23.60	285.542	1.56	-1.53	3.42
1890.00	4.130	286.920	1805.83	24.90	7.01	-25.98	1624022.97	493138.98	39°50'50.8392"N	80°43'36.9674"W	26.91	285.106	2.19	-1.44	21.40
1960.00	3.480	297.600	1849.73	27.70	8.09	-28.68	1624020.28	493140.10	39°50'50.8499"N	80°43'37.0020"W	29.80	285.760	2.19	-1.48	24.41
2030.00	3.300	309.340	1892.66	30.23	9.49	-30.80	1624018.19	493141.51	39°50'50.8636"N	80°43'37.0291"W	32.22	287.119	1.66	-0.42	27.18

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Facility	Marshall	API	47-051-02519-0000
Locality	Longworth Pad	Wellbore	Longworth 101H AWP
Site	Slot #101		

WELLPATH DATA (163 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn (Rate) [°/100ft]
1937.00	3.090	316.940	1935.59	32.61	11.12	-32.54	1624018.46	493143.17	39°50'50.8797°N	80°43'37.0515°W	34.39	288.859	1.10	-0.49	17.67
1940.00	2.970	325.300	1978.53	34.79	12.86	-33.96	1624015.07	493144.94	39°50'50.8970°N	80°43'37.0696°W	36.31	290.747	1.09	-0.40	19.44
2023.00	2.060	326.240	2021.48	36.78	14.59	-35.14	1624013.92	493146.68	39°50'50.9141°N	80°43'37.0847°W	38.05	292.555	0.61	-0.60	2.19
2060.00	2.520	320.230	2064.44	38.64	16.15	-36.30	1624012.78	493148.25	39°50'50.9295°N	80°43'37.0996°W	39.73	293.987	0.71	-0.33	13.98
2159.00	3.180	297.500	2151.33	42.89	18.73	-39.66	1624009.45	493150.88	39°50'50.9550°N	80°43'37.1427°W	43.86	295.285	1.49	0.76	-28.13
2221.00	4.020	285.930	2219.20	46.96	20.26	-43.62	1624005.51	493152.46	39°50'50.9701°N	80°43'37.1936°W	48.10	294.910	1.63	1.24	-12.01
2290.00	5.130	285.920	2287.98	52.08	21.77	-48.92	1624000.24	493154.04	39°50'50.9850°N	80°43'37.2614°W	53.54	293.990	1.61	1.61	-0.01
2351.00	5.860	280.810	2330.78	55.84	22.71	-52.92	1623996.25	493155.04	39°50'50.9943°N	80°43'37.3128°W	57.59	293.224	2.04	1.70	-11.86
2419.00	4.650	256.020	2416.43	61.94	22.69	-60.62	1623988.55	493155.12	39°50'50.9941°N	80°43'37.4114°W	64.73	290.521	2.96	-1.41	-28.83
2505.00	3.420	241.380	2502.22	65.16	20.62	-66.25	1623982.89	493163.13	39°50'50.9736°N	80°43'37.4837°W	69.39	287.287	1.85	-1.43	-17.02
2592.00	2.380	219.090	2589.11	66.27	17.97	-69.67	1623979.44	493150.53	39°50'50.9475°N	80°43'37.5275°W	71.95	284.466	1.74	-1.20	-26.62
2578.00	3.180	185.990	2675.01	65.08	14.21	-71.05	1623978.01	493146.79	39°50'50.9103°N	80°43'37.5451°W	72.45	281.314	2.05	0.93	-38.49
2765.00	3.630	154.540	2761.86	61.37	9.33	-70.11	1623978.87	493141.89	39°50'50.8620°N	80°43'37.5332°W	70.73	277.578	2.18	0.52	-36.15
2851.00	3.500	154.780	2847.70	56.62	4.49	-67.82	1623981.10	493137.03	39°50'50.8143°N	80°43'37.5038°W	67.97	273.792	0.15	-0.15	0.78
2937.00	3.380	166.480	2933.54	52.32	-0.34	-66.11	1623982.74	493132.17	39°50'50.7665°N	80°43'37.4819°W	66.11	269.701	0.83	-0.14	13.60
2980.00	3.140	185.040	2976.47	50.70	-2.75	-65.92	1623982.90	493129.76	39°50'50.7427°N	80°43'37.4794°W	65.98	267.611	2.51	-0.56	43.16
3023.00	3.400	183.320	3019.40	49.36	-5.20	-66.10	1623982.69	493127.32	39°50'50.7185°N	80°43'37.4817°W	66.30	265.505	0.65	0.60	-4.00
3066.00	3.360	194.330	3062.33	48.15	-7.69	-66.48	1623982.27	493124.83	39°50'50.6939°N	80°43'37.4866°W	66.93	263.402	1.51	-0.09	25.60
3109.00	3.360	197.650	3105.26	47.23	-10.11	-67.18	1623981.54	493122.42	39°50'50.6699°N	80°43'37.4955°W	67.93	261.439	0.45	0.00	7.72
3151.00	3.630	211.550	3147.18	46.68	-12.42	-68.25	1623980.44	493120.13	39°50'50.6471°N	80°43'37.5092°W	69.37	259.687	2.11	0.64	33.10
3195.00	3.590	223.800	3191.09	46.69	-14.60	-69.93	1623978.73	493117.97	39°50'50.6258°N	80°43'37.5308°W	71.44	258.207	1.75	-0.09	27.88
3238.00	3.500	221.380	3234.01	46.94	-16.56	-71.73	1623976.91	493116.04	39°50'50.6062°N	80°43'37.5539°W	73.61	257.003	0.41	-0.21	-5.63
3281.00	3.570	210.280	3276.93	46.86	-18.70	-73.27	1623975.33	493113.92	39°50'50.5851°N	80°43'37.5737°W	75.62	255.685	1.60	0.16	-25.01
3324.00	3.300	203.820	3319.85	46.41	-20.99	-74.45	1623974.13	493111.64	39°50'50.5625°N	80°43'37.5887°W	77.35	254.257	1.10	-0.63	-15.02
3367.00	4.080	200.060	3362.76	45.66	-23.55	-75.47	1623973.07	493109.09	39°50'50.5371°N	80°43'37.6018°W	79.06	252.667	1.90	1.81	-8.74
3410.00	4.870	206.340	3405.63	44.85	-26.63	-76.80	1623971.69	493106.04	39°50'50.5067°N	80°43'37.6190°W	81.29	250.879	2.16	1.84	14.60
3453.00	6.350	208.350	3448.42	44.13	-30.36	-78.74	1623969.70	493102.33	39°50'50.4699°N	80°43'37.6438°W	84.39	248.918	3.47	3.44	4.67
3540.00	8.300	206.160	3534.70	42.14	-40.27	-83.82	1623964.50	493092.49	39°50'50.3719°N	80°43'37.7089°W	92.99	244.339	2.33	2.31	-2.52
3626.00	10.210	204.010	3619.57	39.16	-52.84	-89.68	1623958.47	493080.00	39°50'50.2476°N	80°43'37.7840°W	104.09	239.490	2.19	2.15	-2.50
3712.00	12.450	203.370	3703.89	35.15	-68.32	-96.45	1623951.48	493064.82	39°50'50.0947°N	80°43'37.8709°W	118.20	234.691	2.61	2.60	-0.74

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Survey	Marshall	API	47-051-02519-0000
Location	Longworth Pad	Wellbore	Longworth 101H AWB
Site	Site #101		

WELLPATH DATA (163 stations)

MB (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)
100.00	15.850	204.430	3788.52	30.46	-86.74	-104.63	1623943.05	493046.31	39°50'49.9126"N	80°43'37.9758"W	135.91	230.341	2.20	2.18	1.22
100.00	15.880	208.380	3871.55	26.23	-106.79	-114.63	1623932.78	493026.40	39°50'49.7145"N	80°43'38.1039"W	156.66	227.028	2.12	1.76	-5.60
100.00	17.810	207.880	3953.84	22.20	-128.82	-126.40	1623920.71	493004.54	39°50'49.4968"N	80°43'38.2548"W	180.47	224.457	2.39	2.38	-0.50
100.00	19.760	208.710	4036.17	17.77	-153.54	-139.72	1623907.05	492980.00	39°50'49.2525"N	80°43'38.4256"W	207.60	222.301	2.15	2.13	0.95
100.00	21.620	209.760	4116.63	13.48	-180.05	-154.57	1623891.84	492953.70	39°50'48.9905"N	80°43'38.6160"W	237.30	220.646	2.21	2.16	1.22
100.00	23.390	210.670	4197.00	9.33	-208.82	-171.34	1623874.69	492925.16	39°50'48.7062"N	80°43'38.8309"W	270.11	219.369	2.07	2.03	1.05
100.00	25.070	209.920	4275.23	4.91	-239.65	-189.34	1623856.27	492894.58	39°50'48.4015"N	80°43'39.0617"W	305.42	218.311	2.68	2.65	-0.87
100.00	26.870	207.880	4352.55	-1.01	-274.56	-208.56	1623836.57	492859.94	39°50'48.0565"N	80°43'39.3082"W	344.79	217.221	3.83	3.68	-2.34
100.00	28.940	207.960	4427.10	-8.07	-312.44	-228.64	1623815.98	492822.34	39°50'47.6821"N	80°43'39.5656"W	387.16	216.196	2.41	2.41	0.02
100.00	31.710	206.920	4501.42	-15.89	-352.58	-249.48	1623794.60	492782.49	39°50'47.2854"N	80°43'39.8328"W	431.92	215.282	1.08	0.89	-1.20
100.00	32.050	206.070	4574.44	-24.47	-393.23	-269.74	1623773.78	492742.12	39°50'46.8837"N	80°43'40.0925"W	476.85	214.448	0.65	0.40	-0.50
100.00	32.510	204.130	4647.15	-34.25	-434.82	-289.21	1623753.74	492700.80	39°50'46.4727"N	80°43'40.3422"W	522.22	213.629	1.32	0.53	-2.20
100.00	31.450	204.640	4720.10	-44.51	-476.31	-308.02	1623734.38	492659.58	39°50'46.0627"N	80°43'40.5833"W	567.22	212.890	1.27	-1.23	0.55
100.00	31.190	204.120	4794.42	-54.69	-517.50	-326.68	1623715.15	492618.65	39°50'45.6556"N	80°43'40.8226"W	611.98	212.263	0.43	-0.30	-0.50
100.00	30.640	203.740	4859.63	-63.77	-553.19	-342.52	1623698.82	492583.18	39°50'45.3029"N	80°43'41.0257"W	650.64	211.765	0.77	-0.72	-0.50
100.00	31.560	202.870	4934.12	-74.71	-594.46	-360.30	1623680.49	492542.16	39°50'44.8951"N	80°43'41.2535"W	695.12	211.220	1.18	1.06	-1.00
100.00	31.930	200.330	5007.26	-87.03	-636.52	-376.95	1623663.27	492500.33	39°50'44.4794"N	80°43'41.4670"W	739.76	210.634	1.61	0.43	-2.25
100.00	32.550	199.780	5080.00	-100.70	-679.62	-392.68	1623646.95	492457.45	39°50'44.0534"N	80°43'41.6687"W	784.90	210.019	0.80	0.72	-0.61
100.00	32.650	198.820	5153.29	-115.26	-723.86	-408.17	1623630.86	492413.43	39°50'43.6163"N	80°43'41.8673"W	831.00	209.418	0.61	0.11	-1.10
100.00	31.780	195.790	5226.06	-130.98	-767.61	-421.81	1623616.62	492369.87	39°50'43.1839"N	80°43'42.0422"W	875.87	208.790	2.13	-1.01	-3.62
100.00	30.630	194.970	5300.47	-147.87	-811.07	-433.77	1623604.06	492326.58	39°50'42.7544"N	80°43'42.1955"W	919.78	208.139	1.41	-1.32	-0.94
100.00	30.520	193.990	5374.51	-164.90	-853.42	-444.71	1623592.55	492284.39	39°50'42.3358"N	80°43'42.3358"W	962.34	207.524	0.59	-0.13	-1.14
100.00	30.100	193.080	5448.76	-182.45	-895.62	-454.87	1623581.82	492242.34	39°50'41.9188"N	80°43'42.4660"W	1004.51	206.925	0.72	-0.49	-1.06
100.00	29.060	193.740	5523.21	-199.94	-937.48	-464.85	1623571.26	492200.61	39°50'41.5051"N	80°43'42.5940"W	1046.40	206.375	0.42	-0.16	0.77
100.00	29.850	194.570	5597.76	-216.85	-979.06	-475.34	1623560.21	492159.19	39°50'41.0942"N	80°43'42.7284"W	1088.35	205.897	0.50	-0.13	0.97
100.00	30.300	195.860	5673.05	-233.31	-1021.12	-486.78	1623548.20	492117.28	39°50'40.6785"N	80°43'42.8751"W	1131.22	205.488	0.91	0.52	1.46
100.00	30.810	195.360	5729.89	-245.76	-1053.44	-495.81	1623538.73	492085.10	39°50'40.3591"N	80°43'42.9908"W	1184.28	205.204	0.86	0.77	-0.70
100.00	30.130	194.950	5793.67	-259.95	-1089.66	-505.62	1623528.42	492049.02	39°50'40.0012"N	80°43'43.1166"W	1201.25	204.892	0.96	-0.92	-0.52
100.00	27.680	208.730	5876.04	-272.26	-1131.65	-522.22	1623511.25	492007.26	39°50'39.5862"N	80°43'43.3294"W	1246.33	204.772	7.53	-2.61	14.66
100.00	28.390	225.180	5960.02	-272.52	-1166.97	-548.89	1623484.11	491972.31	39°50'39.2371"N	80°43'43.6713"W	1289.61	205.190	8.15	0.75	17.32

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Actual Wellpath Report

Longworth 101H AWP Proj: 13274'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 101H
State	Marshall	API	47-051-02519-0000
Location	Longworth Pad	Wellbore	Longworth 101H AWP
Source	SIN# 101		

WELLPATH DATA (163 stations)

Well ID	Station	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]
0000.00	00.000	244.530	6043.78	-259.14	-1192.65	-585.36	1623447.29	491947.13	39°50'38.9833"N	80°43'44.1389"W	1328.56	206.142	9.65	-0.02	20.37
0000.00	00.050	264.330	6125.67	-231.24	-1204.67	-629.67	1623402.83	491935.71	39°50'38.8645"N	80°43'44.7069"W	1359.31	207.595	10.72	2.70	21.00
0000.00	00.100	279.350	6205.46	-189.22	-1202.64	-681.00	1623351.53	491938.44	39°50'38.8846"N	80°43'45.3650"W	1382.07	209.521	9.64	4.40	15.01
0000.00	00.150	290.530	6279.46	-135.66	-1187.37	-736.75	1623296.00	491954.47	39°50'39.0355"N	80°43'46.0797"W	1397.37	211.819	9.76	6.46	11.89
0000.00	00.200	297.670	6346.60	-70.31	-1159.73	-797.86	1623235.27	491982.95	39°50'39.3086"N	80°43'46.8632"W	1407.67	214.527	9.72	8.15	7.50
0000.00	00.250	301.160	6404.35	3.08	-1123.25	-862.35	1623171.29	492020.30	39°50'39.6691"N	80°43'47.6901"W	1416.10	217.515	7.37	6.77	3.71
0000.00	00.300	302.870	6453.19	84.12	-1080.06	-931.34	1623102.89	492064.43	39°50'40.0959"N	80°43'48.5746"W	1426.16	220.772	8.10	7.95	1.00
0000.00	00.350	306.780	6491.56	170.87	-1030.41	-1002.58	1623032.35	492115.05	39°50'40.5866"N	80°43'49.4880"W	1437.67	224.216	8.02	7.08	4.12
0000.00	00.400	312.470	6518.12	260.85	-972.90	-1071.88	1622963.84	492173.49	39°50'41.1548"N	80°43'50.3765"W	1447.58	227.771	10.38	8.61	0.05
0000.00	00.450	317.720	6533.47	354.67	-905.82	-1138.69	1622887.95	492241.48	39°50'41.8178"N	80°43'51.2331"W	1455.03	231.498	8.53	6.60	5.47
0000.00	00.500	319.600	6542.69	446.41	-835.58	-1200.48	1622837.14	492312.54	39°50'42.5119"N	80°43'52.0253"W	1462.65	235.160	2.16	0.85	2.00
0000.00	00.550	320.030	6548.00	538.04	-763.90	-1261.02	1622777.58	492385.04	39°50'43.2202"N	80°43'52.8015"W	1474.36	238.793	4.26	4.23	0.40
0000.00	00.600	319.340	6549.08	630.85	-691.47	-1322.48	1622717.12	492458.30	39°50'43.9360"N	80°43'53.5895"W	1492.34	242.397	1.46	1.26	-0.73
0000.00	00.650	320.190	6548.43	722.67	-619.71	-1383.20	1622657.39	492530.88	39°50'44.6451"N	80°43'54.3680"W	1515.68	245.866	1.31	0.95	0.90
0000.00	00.700	318.550	6547.15	815.59	-547.62	-1445.05	1622596.53	492603.80	39°50'45.3575"N	80°43'55.1610"W	1545.34	249.245	1.73	-0.14	-1.73
0000.00	00.750	320.060	6546.25	906.57	-477.12	-1505.68	1622536.87	492675.12	39°50'46.0543"N	80°43'55.9385"W	1579.47	252.418	1.66	-0.33	1.02
0000.00	00.800	322.380	6545.43	998.81	-403.07	-1565.18	1622478.40	492749.98	39°50'46.7880"N	80°43'56.7013"W	1616.25	255.559	2.45	0.20	2.48
0000.00	00.850	321.200	6543.28	1089.83	-329.23	-1623.31	1622421.29	492824.60	39°50'47.5157"N	80°43'57.4466"W	1656.35	258.535	1.98	1.53	-1.20
0000.00	00.900	321.760	6541.11	1181.94	-254.92	-1682.45	1622363.16	492899.70	39°50'48.2500"N	80°43'58.2050"W	1701.66	261.384	1.64	-1.53	0.59
0000.00	00.950	321.600	6540.49	1273.03	-181.18	-1740.74	1622305.90	492974.23	39°50'48.9788"N	80°43'58.9523"W	1750.14	264.058	0.46	-0.43	-0.17
0000.00	01.000	323.180	6539.21	1363.82	-106.72	-1798.10	1622249.56	493049.46	39°50'49.7145"N	80°43'59.6878"W	1801.26	266.603	2.11	1.28	1.68
0000.00	01.050	321.110	6538.56	1455.67	-31.72	-1856.39	1622192.30	493125.24	39°50'50.4557"N	80°44'0.4352"W	1856.66	269.021	3.01	-2.07	-2.16
0000.00	01.100	322.500	6538.16	1547.68	42.93	-1915.12	1622134.59	493200.89	39°50'51.1934"N	80°44'1.1884"W	1915.61	271.284	2.28	1.75	1.46
0000.00	01.150	320.330	6537.11	1638.86	116.40	-1973.74	1622076.99	493274.95	39°50'51.9195"N	80°44'1.9400"W	1977.17	273.375	2.48	-0.91	-2.31
0000.00	01.200	320.780	6536.48	1731.36	189.76	-2034.10	1622017.64	493349.12	39°50'52.6444"N	80°44'2.7139"W	2042.93	275.330	0.59	0.36	0.47
0000.00	01.250	321.470	6535.22	1822.67	262.94	-2093.09	1621959.66	493423.09	39°50'53.3675"N	80°44'3.4703"W	2109.54	277.160	0.86	0.46	0.73
0000.00	01.300	321.470	6533.67	1914.80	337.24	-2152.26	1621901.51	493498.19	39°50'54.1018"N	80°44'4.2280"W	2178.52	278.905	0.09	-0.09	0.00
0000.00	01.350	321.440	6532.49	2005.98	410.76	-2210.83	1621843.96	493572.50	39°50'54.8282"N	80°44'4.9801"W	2248.66	280.525	0.36	-0.36	-0.03
0000.00	01.400	320.490	6531.94	2097.35	483.77	-2270.03	1621785.76	493646.31	39°50'55.5498"N	80°44'5.7391"W	2321.00	282.030	1.11	-0.46	-1.01
0000.00	01.450	321.360	6531.36	2189.70	557.52	-2329.91	1621726.90	493720.86	39°50'56.2785"N	80°44'6.5070"W	2395.68	283.457	1.04	0.48	0.92

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Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 101H
Owner	Marshall	API	47-051-02519-0000
Facility	Longworth Pad	Wellbore	Longworth 101H AWB
Site	Sect #101		

WELLPATH DATA (163 stations)

WD [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]
2207.00	89.930	320.760	6530.94	2282.01	631.41	-2389.61	1621668.21	493795.56	39°50'57.0087"N	80°44'7.2726"W	2471.63	284.801	0.93	-0.68	-0.13
0301.00	90.270	320.160	6530.78	2373.58	703.90	-2449.46	1621609.37	493868.85	39°50'57.7250"N	80°44'8.0399"W	2548.59	286.033	0.73	0.36	-0.61
0900.00	90.610	321.880	6530.05	2465.90	777.73	-2509.22	1621550.62	493943.49	39°50'58.4546"N	80°44'8.8064"W	2626.99	287.221	1.82	0.36	1.79
0900.00	90.700	321.710	6528.97	2556.94	851.58	-2567.37	1621493.49	494018.13	39°50'59.1844"N	80°44'9.5520"W	2704.92	288.350	0.19	0.10	-0.16
0504.00	90.240	321.240	6528.20	2648.11	925.12	-2625.92	1621435.95	494092.45	39°50'59.9111"N	80°44'10.3027"W	2784.11	289.408	0.70	-0.49	-0.50
0070.00	90.420	321.140	6527.65	2740.37	999.15	-2685.46	1621377.43	494167.28	39°51'0.6426"N	80°44'11.0662"W	2865.30	290.408	0.22	0.19	-0.11
0773.00	90.390	320.820	6526.99	2831.73	1072.17	-2744.64	1621319.26	494241.11	39°51'1.3642"N	80°44'11.8251"W	2946.62	291.338	0.34	-0.03	-0.34
0000.00	90.540	321.560	6526.22	2923.99	1146.20	-2804.17	1621260.74	494315.93	39°51'2.0957"N	80°44'12.5886"W	3029.38	292.232	0.79	0.16	0.70
0002.00	90.790	320.820	6525.13	3015.27	1219.44	-2863.08	1621202.84	494389.97	39°51'2.8195"N	80°44'13.3440"W	3111.96	293.070	0.83	0.27	-0.70
10050.00	90.910	321.450	6523.70	3108.51	1294.18	-2923.31	1621143.64	494465.52	39°51'3.5580"N	80°44'14.1164"W	3195.98	293.879	0.67	0.12	0.86
10152.00	90.700	320.600	6522.38	3199.85	1367.25	-2982.43	1621085.53	494539.38	39°51'4.2801"N	80°44'14.8745"W	3280.90	294.628	0.93	-0.22	-0.00
10047.00	91.220	323.010	6520.79	3291.84	1441.89	-3041.16	1621027.82	494614.82	39°51'5.0177"N	80°44'15.6277"W	3365.67	295.367	2.59	0.55	2.54
10101.00	80.250	321.320	6520.40	3382.72	1516.13	-3098.81	1620971.19	494689.83	39°51'5.7512"N	80°44'16.3670"W	3449.83	296.071	2.76	-2.10	-1.00
10206.00	90.880	321.740	6520.30	3474.84	1590.50	-3157.91	1620913.12	494765.00	39°51'6.4882"N	80°44'17.1249"W	3535.83	296.732	1.77	1.72	0.44
10201.00	89.990	321.680	6519.58	3566.88	1666.06	-3216.78	1620855.28	494840.35	39°51'7.2230"N	80°44'17.8797"W	3622.17	297.367	0.94	-0.94	-0.06
10027.00	90.080	321.130	6519.52	3660.03	1740.10	-3276.66	1620796.43	494916.19	39°51'7.9644"N	80°44'18.6477"W	3710.05	297.971	0.58	0.09	-0.57
10121.00	90.240	321.080	6519.25	3751.35	1813.25	-3335.68	1620738.42	494990.15	39°51'8.6873"N	80°44'19.4046"W	3796.67	298.528	0.18	0.17	-0.05
10010.00	90.300	321.780	6518.81	3843.51	1887.52	-3394.93	1620680.20	495065.21	39°51'9.4212"N	80°44'20.1643"W	3884.36	299.073	0.72	0.06	0.72
10011.00	90.420	321.540	6518.21	3935.58	1962.02	-3453.87	1620622.28	495140.50	39°51'10.1573"N	80°44'20.9202"W	3972.24	299.599	0.26	0.13	-0.73
11005.00	90.390	324.230	6517.54	4027.12	2037.77	-3511.19	1620568.01	495217.02	39°51'10.9058"N	80°44'21.6553"W	4059.67	300.129	2.83	-0.03	2.83
11001.00	90.360	320.990	6516.97	4118.77	2113.23	-3568.87	1620509.37	495293.27	39°51'11.6516"N	80°44'22.3850"W	4147.60	300.631	3.41	-0.09	-3.41
11000.00	90.020	320.600	6516.70	4211.18	2186.85	-3628.91	1620450.33	495367.69	39°51'12.3790"N	80°44'23.1651"W	4236.90	301.074	0.51	-0.29	-0.41
11011.00	90.140	319.620	6516.57	4303.85	2259.74	-3689.84	1620390.41	495441.40	39°51'13.0992"N	80°44'23.9464"W	4326.81	301.484	1.04	0.13	-1.03
11005.00	89.930	320.000	6516.51	4395.65	2331.55	-3750.50	1620330.74	495514.03	39°51'13.8088"N	80°44'24.7244"W	4416.15	301.868	0.46	-0.22	0.40
11000.00	90.390	321.040	6516.24	4488.16	2404.87	-3810.90	1620271.35	495588.16	39°51'14.5333"N	80°44'25.4990"W	4506.26	302.254	1.20	0.48	1.06
11000.00	90.700	320.840	6515.34	4580.52	2478.63	-3870.76	1620212.51	495662.73	39°51'15.2622"N	80°44'26.2667"W	4596.35	302.633	0.39	0.33	-0.71
11000.00	90.450	320.430	6514.40	4672.01	2551.30	-3930.38	1620153.89	495736.21	39°51'15.9803"N	80°44'27.0313"W	4685.83	302.989	0.51	-0.27	-0.40
11004.00	90.360	319.930	6513.73	4764.65	2624.27	-3991.21	1620094.06	495809.99	39°51'16.7012"N	80°44'27.8115"W	4776.67	303.325	0.53	-0.08	-0.53
11050.00	90.360	320.020	6513.14	4856.39	2696.25	-4051.66	1620034.60	495882.79	39°51'17.4125"N	80°44'28.5868"W	4866.80	303.642	0.10	0.00	0.10
11953.00	90.730	320.920	6512.23	4948.92	2769.51	-4112.12	1619975.15	495956.87	39°51'18.1365"N	80°44'29.3622"W	4957.80	303.960	1.02	0.39	0.95

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 101H
Field	Marshall	API	47-051-02519-0000
Facility	Longworth Pad	Wellbore	Longworth 101H AWB
Slot	Slot #101		

WELLPATH DATA (163 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]
12047.00	90.970	321.460	6510.84	5040.20	2842.75	-4171.03	1619917.25	496030.90	39°51'18.8602"N	80°44'30.1177"W	5047.65	304.276	0.63	0.26	0.57
12143.00	90.480	319.640	6509.62	5133.66	2916.87	-4232.02	1619857.28	496105.84	39°51'19.5926"N	80°44'30.8999"W	5139.86	304.576	1.96	-0.51	-1.80
12237.00	90.820	320.770	6508.56	5225.31	2989.09	-4292.18	1619798.12	496178.87	39°51'20.3062"N	80°44'31.6715"W	5230.44	304.853	1.26	0.36	1.20
12332.00	90.850	320.340	6507.17	5317.81	3062.45	-4352.53	1619738.78	496253.04	39°51'21.0310"N	80°44'32.4455"W	5321.95	305.130	0.45	0.03	-0.45
12427.00	90.690	319.340	6505.90	5410.56	3135.04	-4413.79	1619678.51	496326.46	39°51'21.7483"N	80°44'33.2312"W	5413.88	305.386	1.07	-0.17	-1.05
12522.00	90.850	319.550	6504.62	5503.46	3207.21	-4475.56	1619617.75	496399.47	39°51'22.4615"N	80°44'34.0233"W	5506.07	305.626	0.28	0.17	0.22
12616.00	91.400	320.640	6502.77	5595.14	3279.31	-4535.85	1619558.45	496472.37	39°51'23.1738"N	80°44'34.7965"W	5597.12	305.866	1.30	0.59	1.16
12805.00	90.970	322.140	6498.86	5778.48	3426.96	-4653.76	1619442.57	496621.61	39°51'24.6328"N	80°44'36.3088"W	5779.40	306.367	0.83	-0.23	0.79
12900.00	90.290	320.770	6497.82	5870.62	3501.25	-4712.95	1619384.41	496696.70	39°51'25.3669"N	80°44'37.0680"W	5871.17	306.609	1.61	-0.72	-1.44
12995.00	91.090	320.380	6496.68	5963.11	3574.63	-4773.27	1619325.09	496770.89	39°51'26.0919"N	80°44'37.8418"W	5963.40	306.829	0.94	0.84	-0.41
13090.00	90.970	319.700	6494.97	6055.79	3647.43	-4834.28	1619265.09	496844.52	39°51'26.8113"N	80°44'38.6242"W	6055.91	307.034	0.73	-0.13	-0.72
13184.00	90.910	316.580	6493.43	6148.12	3717.43	-4896.99	1619203.34	496915.36	39°51'27.5029"N	80°44'39.4285"W	6148.15	307.203	3.32	-0.06	-3.32
13274.00	90.910	316.580	6492.00	6236.95	3782.79	-4958.84	1619142.39	496981.55	39°51'28.1487"N	80°44'40.2218"W	6236.95	307.338	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Longworth 101H AWB Ref Wellpath: Longworth 101H AWP Proj: 13274'

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	0.03
17.5in Open Hole	68.00	1274.00	1206.00	68.00	1273.99	0.03	0.03	1.33	3.04
13.575in Casing Surface	28.00	1274.00	1246.00	28.00	1273.99	0.00	0.00	1.33	3.04
12.25in Open Hole	1274.00	2253.00	979.00	1273.99	2251.11	1.33	3.04	20.91	-45.92
9.625in Casing Intermediate	28.00	2253.00	2225.00	28.00	2251.11	0.00	0.00	20.91	-45.92
8.75in Open Hole	2253.00	6091.00	3838.00	2251.11	5796.26	20.91	-45.92	-1091.11	-506.01
8.5in Open Hole	6091.00	13274.00	7183.00	5796.26	6492.00	-1091.11	-506.01	3782.79	-4958.84
5.5in Casing Production	28.00	13274.00	13246.00	28.00	6492.00	0.00	0.00	3782.79	-4958.84

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Actual Wellpath Report

Longworth 101H AWP Proj: 13274'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 101H
Field	Marshall	API	47-051-02519-0000
Facility	Longworth Pad	Wellbore	Longworth 101H AWB
Slot	Slot #101		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Longworth 101H BHL Rev-1	6487.78	3788.24	-4956.70	1619144.60	496986.97	39°51'28.2026"N	80°44'40.1944"W	point
Longworth 101H LP Rev-1	6540.00	-858.81	-1186.55	1622850.75	492289.12	39°50'42.2823"N	80°43'51.8467"W	point

WELLPATH COMPOSITION - Ref Wellbore: Longworth 101H AWB Ref Wellpath: Longworth 101H AWP Proj: 13274'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1254.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro <17-1/2"> (100'-1239')	Longworth 101H AWB	12/18/2024
1254.00	2221.00	OWSG MWD rev2 + HRGM	02 SDI MWD <12-1/4"> (1239')(1274'-2206')	Longworth 101H AWB	12/18/2024
2221.00	6014.00	OWSG MWD rev2 + HRGM	03 SDI MWD <8-3/4"> (2206')(2275'-5999')	Longworth 101H AWB	12/18/2024
6014.00	13274.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH AT Curve+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6014')(6088'-13184')	Longworth 101H AWB	12/19/2024

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Actual Wellpath Report

Longworth 101H AWP Proj: 13274'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT CHAP LLC	Well	Longworth 101H
Field	Marshall	API	47-051-02519-0000
Facility	Longworth Pad	Wellbore	Longworth 101H AWB
Slot	Slot #101		

COMMENTS

Wellpath general comments

API: 47-051-02519-0000

BH Job #: 112518257

Rig: Patterson 294

Duration: 12/21/2024-12/22/2024

Gyrodata Cont. Gyro <17-1/2"> (100'-1239')

SDI MWD <12-1/4"> (1239')(1274'-2206')

SDI MWD <8-3/4"> (2206')(2275'-5999')

BH AT Curve+SuperiorQC IFR1+Sag+FDIR <8-1/2"> (6014')(6088'-13184')

Projected MD at TD: 13274'

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EQT CHAP LLC

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

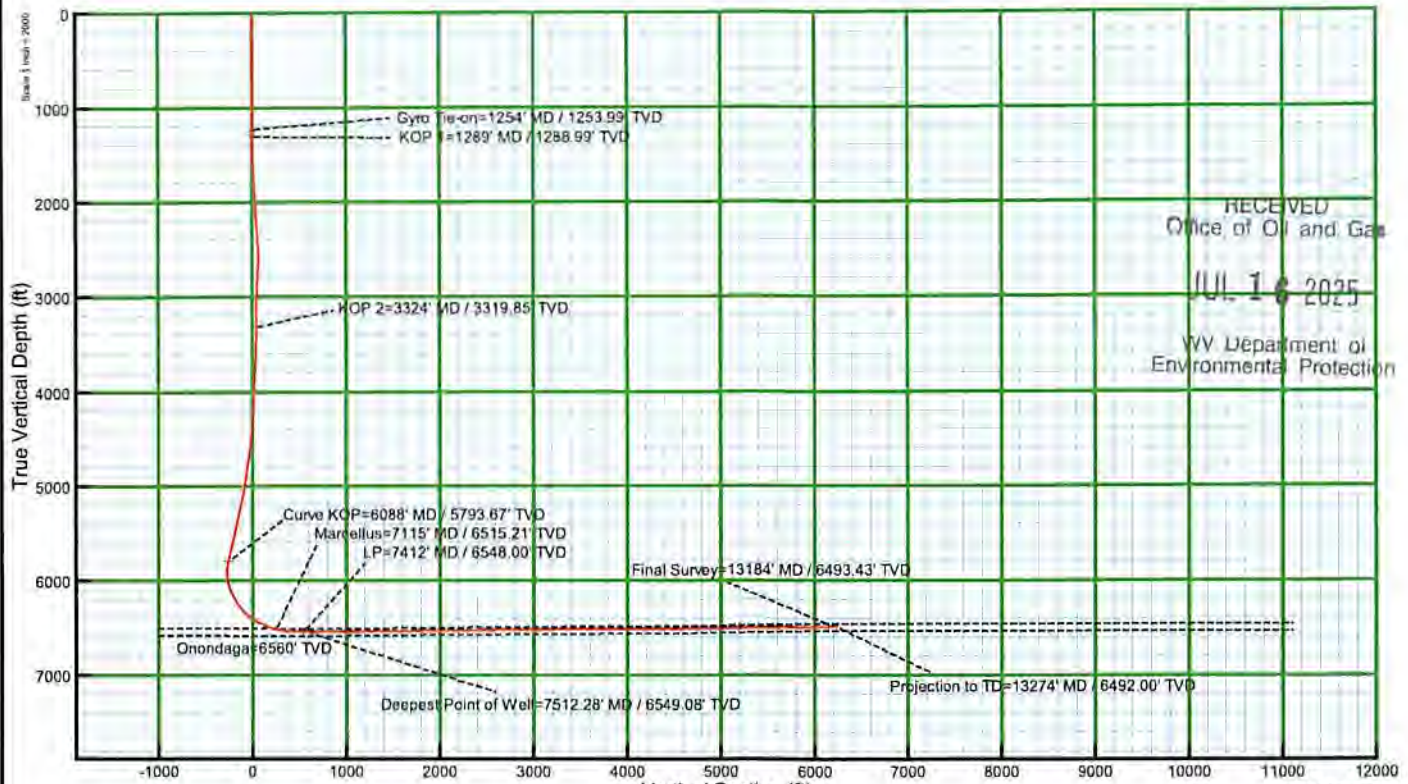
Slot: Slot #101
Well: Longworth 101H
Wellbore: Longworth 101H AWB



KB Elevation=1298 FT

Ground Elevation=1270 FT

All Survey Measurements were taken from KB Elevation



Vertical Section (ft)
Azimuth 307.39° with reference 0.00 N, 0.00 E
Easting (ft)

