



# Actual Wellpath Report

Denver 9H AWP Proj:19919'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Scurdan
Scale	0.999941	Report Generated	9/1/2023 at 4:47:23 PM
Convergence at slot	0.68° 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	-18.97	56.92	1701514.43	415387.68	39°38'8.3237"N	80°33'35.4536"W
Facility Reference Pt			1701457.51	415406.65	39°38'8.5046"N	80°33'36.1840"W
Field Reference Pt			1688243.35	385255.46	39°33'8.9436"N	80°36'20.3370"W

## WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 292 (RKB) to Facility Vertical Datum	1379.00ft
Horizontal Reference Pt	Slot	Patterson 292 (RKB) to Mean Sea Level	1379.00ft
Vertical Reference Pt	Patterson 292 (RKB)	Patterson 292 (RKB) to Ground Level at Slot (Slot 09)	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	333.39°

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Slot	Slot 09		

## WELLPATH DATA (219 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	73.710	0.00	0.00	0.00	0.00	1701514.43	415387.68	39°38'8.3237"N	80°33'35.4536"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	73.710	28.00	0.00	0.00	0.00	1701514.43	415387.68	39°38'8.3237"N	80°33'35.4536"W	0.00	0.000	0.00	0.00	0.00
115.00	0.210	73.710	115.00	-0.03	0.04	0.15	1701514.58	415387.72	39°38'8.3242"N	80°33'35.4517"W	0.16	73.710	0.24	0.24	0.00
215.00	0.110	166.190	215.00	-0.16	0.00	0.35	1701514.78	415387.68	39°38'8.3238"N	80°33'35.4491"W	0.35	89.527	0.24	-0.10	92.48
315.00	0.100	204.710	315.00	-0.30	-0.17	0.34	1701514.77	415387.51	39°38'8.3221"N	80°33'35.4493"W	0.38	116.625	0.07	-0.01	38.52
415.00	0.180	198.850	415.00	-0.47	-0.40	0.25	1701514.68	415387.28	39°38'8.3198"N	80°33'35.4503"W	0.47	147.725	0.08	0.08	-5.86
515.00	0.130	196.760	515.00	-0.66	-0.65	0.17	1701514.60	415387.03	39°38'8.3173"N	80°33'35.4514"W	0.68	165.644	0.05	-0.05	-2.09
615.00	0.140	217.970	615.00	-0.80	-0.86	0.06	1701514.49	415386.82	39°38'8.3152"N	80°33'35.4527"W	0.86	176.027	0.05	0.01	21.21
715.00	0.060	113.120	715.00	-0.89	-0.98	0.03	1701514.46	415386.70	39°38'8.3141"N	80°33'35.4530"W	0.98	178.082	0.17	-0.08	-104.85
815.00	0.060	255.830	815.00	-0.92	-1.01	0.03	1701514.46	415386.67	39°38'8.3137"N	80°33'35.4531"W	1.01	178.294	0.11	0.00	142.71
915.00	0.090	323.200	915.00	-0.83	-0.96	-0.07	1701514.36	415386.72	39°38'8.3142"N	80°33'35.4543"W	0.96	184.036	0.09	0.03	67.37
1015.00	0.130	309.800	1015.00	-0.65	-0.82	-0.20	1701514.23	415386.86	39°38'8.3155"N	80°33'35.4561"W	0.85	193.763	0.05	0.04	-13.40
1115.00	0.210	263.630	1115.00	-0.48	-0.77	-0.47	1701513.96	415386.91	39°38'8.3160"N	80°33'35.4595"W	0.90	211.395	0.15	0.08	-46.17
1215.00	0.090	107.540	1215.00	-0.47	-0.82	-0.58	1701513.85	415386.86	39°38'8.3156"N	80°33'35.4609"W	1.00	215.329	0.29	-0.12	-156.09
1315.00	0.240	94.630	1315.00	-0.63	-0.86	-0.29	1701514.14	415386.82	39°38'8.3152"N	80°33'35.4572"W	0.91	198.990	0.15	0.15	-12.91
1415.00	0.300	75.500	1415.00	-0.80	-0.81	0.17	1701514.60	415386.87	39°38'8.3157"N	80°33'35.4513"W	0.83	168.296	0.11	0.06	-19.13
1515.00	0.250	68.120	1514.99	-0.87	-0.66	0.62	1701515.05	415387.02	39°38'8.3172"N	80°33'35.4455"W	0.91	136.690	0.06	-0.05	-7.38
1615.00	0.280	75.940	1614.99	-0.94	-0.52	1.06	1701515.49	415387.16	39°38'8.3187"N	80°33'35.4399"W	1.18	116.095	0.05	0.03	7.82
1715.00	0.210	54.380	1714.99	-0.97	-0.35	1.45	1701515.88	415387.33	39°38'8.3204"N	80°33'35.4350"W	1.49	103.748	0.11	-0.07	-21.56
1815.00	0.500	80.120	1814.99	-1.06	-0.17	2.03	1701516.46	415387.51	39°38'8.3222"N	80°33'35.4277"W	2.03	94.873	0.32	0.29	25.74
1915.00	0.380	61.570	1914.99	-1.18	0.06	2.75	1701517.18	415387.74	39°38'8.3246"N	80°33'35.4185"W	2.75	88.752	0.18	-0.12	-18.55
2015.00	0.300	71.820	2014.99	-1.21	0.30	3.29	1701517.72	415387.98	39°38'8.3270"N	80°33'35.4116"W	3.30	84.799	0.10	-0.08	10.25
2115.00	0.260	59.330	2114.98	-1.23	0.50	3.73	1701518.16	415388.18	39°38'8.3291"N	80°33'35.4060"W	3.77	82.419	0.07	-0.04	-12.49
2215.00	0.430	87.440	2214.98	-1.36	0.63	4.30	1701518.73	415388.31	39°38'8.3304"N	80°33'35.3987"W	4.35	81.680	0.24	0.17	28.11
2315.00	0.370	83.310	2314.98	-1.63	0.68	5.00	1701519.43	415388.36	39°38'8.3310"N	80°33'35.3898"W	5.05	82.212	0.07	-0.06	-4.13
2415.00	0.410	93.420	2414.98	-1.92	0.70	5.68	1701520.11	415388.38	39°38'8.3313"N	80°33'35.3812"W	5.72	82.970	0.08	0.04	10.11
2515.00	0.410	86.890	2514.98	-2.24	0.70	6.39	1701520.82	415388.38	39°38'8.3314"N	80°33'35.3720"W	6.43	83.767	0.05	0.00	-6.53
2574.00	0.250	63.030	2573.97	-2.32	0.77	6.72	1701521.15	415388.45	39°38'8.3321"N	80°33'35.3679"W	6.76	83.478	0.35	-0.27	-40.44
2653.00	0.340	111.710	2652.97	-2.50	0.76	7.09	1701521.52	415388.44	39°38'8.3320"N	80°33'35.3631"W	7.13	83.885	0.32	0.11	61.62
2696.00	0.460	93.880	2695.97	-2.68	0.70	7.38	1701521.81	415388.38	39°38'8.3315"N	80°33'35.3594"W	7.41	84.577	0.40	0.28	-41.47



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Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

WELLPATH DATA (219 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]
2740.00	1.220	77.610	2739.97	-2.88	0.79	8.01	1701522.44	415388.47	39°38'8.3324"N	80°33'35.3513"W	8.05	84.376	1.79	1.73	-36.98
2783.00	2.790	76.450	2782.94	-3.23	1.13	9.48	1701523.91	415388.81	39°38'8.3360"N	80°33'35.3327"W	9.54	83.186	3.65	3.65	-2.70
2826.00	3.800	78.310	2825.87	-3.84	1.67	11.89	1701526.32	415389.35	39°38'8.3416"N	80°33'35.3019"W	12.01	82.022	2.36	2.35	4.33
2869.00	3.980	81.880	2868.77	-4.68	2.17	14.76	1701529.19	415389.85	39°38'8.3468"N	80°33'35.2653"W	14.92	81.653	0.70	0.42	8.30
2956.00	5.850	83.260	2955.45	-7.14	3.11	22.16	1701536.58	415390.79	39°38'8.3571"N	80°33'35.1709"W	22.37	82.002	2.15	2.15	1.59
3042.00	8.070	83.580	3040.81	-10.71	4.30	32.51	1701546.94	415391.98	39°38'8.3700"N	80°33'35.0388"W	32.79	82.461	2.58	2.58	0.37
3128.00	9.150	84.520	3125.84	-15.26	5.63	45.31	1701559.74	415393.31	39°38'8.3846"N	80°33'34.8753"W	45.66	82.917	1.27	1.26	1.09
3215.00	10.040	85.460	3211.62	-20.61	6.89	59.76	1701574.19	415394.57	39°38'8.3988"N	80°33'34.6909"W	60.16	83.422	1.04	1.02	1.08
3301.00	10.070	85.880	3296.30	-26.30	8.02	74.73	1701589.16	415395.70	39°38'8.4117"N	80°33'34.4997"W	75.16	83.871	0.09	0.03	0.49
3388.00	9.400	83.880	3382.04	-31.69	9.33	89.38	1701603.81	415397.01	39°38'8.4263"N	80°33'34.3126"W	89.87	84.042	0.86	-0.77	-2.30
3474.00	9.630	83.950	3466.86	-36.68	10.84	103.52	1701617.94	415398.51	39°38'8.4429"N	80°33'34.1322"W	104.08	84.024	0.27	0.27	0.08
3560.00	10.380	86.290	3551.55	-42.22	12.10	118.40	1701632.83	415399.77	39°38'8.4570"N	80°33'33.9422"W	119.02	84.167	0.99	0.87	2.72
3647.00	10.040	85.880	3637.18	-48.17	13.15	133.79	1701648.21	415400.83	39°38'8.4692"N	80°33'33.7457"W	134.43	84.388	0.40	-0.39	-0.47
3733.00	10.100	85.690	3721.85	-53.90	14.25	148.78	1701663.21	415401.93	39°38'8.4819"N	80°33'33.5542"W	149.47	84.528	0.08	0.07	-0.22
3819.00	9.770	85.490	3806.56	-59.51	15.39	163.58	1701678.00	415403.07	39°38'8.4949"N	80°33'33.3653"W	164.30	84.624	0.39	-0.38	-0.23
3906.00	10.170	86.190	3892.25	-65.26	16.48	178.60	1701693.02	415404.16	39°38'8.5074"N	80°33'33.1734"W	179.36	84.727	0.48	0.46	0.80
3993.00	11.250	86.620	3977.73	-71.58	17.49	194.74	1701709.16	415405.17	39°38'8.5193"N	80°33'32.9674"W	195.52	84.867	1.24	1.24	0.49
4079.00	11.010	85.410	4062.11	-77.97	18.65	211.30	1701725.71	415406.33	39°38'8.5326"N	80°33'32.7559"W	212.12	84.957	0.39	-0.28	-1.41
4166.00	10.460	83.200	4147.59	-83.76	20.25	227.42	1701741.84	415407.92	39°38'8.5503"N	80°33'32.5501"W	228.32	84.913	0.79	-0.63	-2.54
4252.00	10.320	85.200	4232.18	-89.27	21.81	242.85	1701757.26	415409.49	39°38'8.5676"N	80°33'32.3531"W	243.83	84.867	0.45	-0.16	2.33
4339.00	10.170	83.220	4317.79	-94.77	23.37	258.24	1701772.65	415411.05	39°38'8.5848"N	80°33'32.1566"W	259.30	84.828	0.44	-0.17	-2.28
4425.00	9.350	81.410	4402.55	-99.51	25.31	272.69	1701787.10	415412.99	39°38'8.6056"N	80°33'31.9723"W	273.86	84.696	1.02	-0.95	-2.10
4512.00	9.190	86.510	4488.41	-104.42	26.79	286.61	1701801.02	415414.47	39°38'8.6219"N	80°33'31.7945"W	287.86	84.660	0.96	-0.18	5.86
4598.00	10.200	89.000	4573.18	-110.41	27.34	301.08	1701815.49	415415.02	39°38'8.6290"N	80°33'31.6097"W	302.32	84.811	1.27	1.17	2.90
4685.00	10.320	86.640	4658.79	-116.82	27.93	316.56	1701830.97	415415.61	39°38'8.6367"N	80°33'31.4119"W	317.79	84.957	0.50	0.14	-2.71
4771.00	10.910	89.380	4743.32	-123.42	28.47	332.39	1701846.80	415416.15	39°38'8.6438"N	80°33'31.2097"W	333.61	85.104	0.90	0.69	3.19
4858.00	10.860	89.460	4828.76	-130.63	28.64	348.82	1701863.23	415416.32	39°38'8.6474"N	80°33'30.9998"W	349.99	85.306	0.06	-0.06	0.09
4945.00	10.310	89.330	4914.28	-137.64	28.81	364.80	1701879.21	415416.49	39°38'8.6509"N	80°33'30.7956"W	365.93	85.485	0.63	-0.63	-0.15
5031.00	11.110	89.380	4998.78	-144.64	28.99	380.78	1701895.19	415416.67	39°38'8.6545"N	80°33'30.5913"W	381.88	85.647	0.93	0.93	0.06
5108.00	11.570	88.670	5074.27	-151.19	29.25	395.92	1701910.32	415416.93	39°38'8.6589"N	80°33'30.3979"W	397.00	85.775	0.62	0.60	-0.92

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5191.00	11.030	88.960	5158.61	-158.42	29.60	412.76	1701927.17	415417.28	39°38'8.6643"N	80°33'30.1826"W	413.82	85.899	0.63	-0.63	0.34
5281.00	10.700	88.740	5244.05	-165.47	29.93	429.16	1701943.56	415417.60	39°38'8.6694"N	80°33'29.9731"W	430.20	86.011	0.38	-0.38	-0.25
5367.00	10.370	88.380	5328.60	-172.16	30.32	444.88	1701959.28	415418.00	39°38'8.6752"N	80°33'29.7723"W	445.91	86.101	0.39	-0.38	-0.42
5454.00	10.660	87.420	5414.14	-178.74	30.90	460.74	1701975.15	415418.58	39°38'8.6828"N	80°33'29.5696"W	461.78	86.163	0.39	0.33	-1.10
5540.00	10.370	85.480	5498.69	-184.89	31.87	476.41	1701990.81	415419.55	39°38'8.6942"N	80°33'29.3696"W	477.47	86.173	0.53	-0.34	-2.26
5626.00	10.920	86.090	5583.21	-190.95	33.04	492.25	1702006.65	415420.72	39°38'8.7075"N	80°33'29.1673"W	493.36	86.160	0.65	0.64	0.71
5713.00	11.160	87.870	5668.60	-197.62	33.91	508.88	1702023.28	415421.59	39°38'8.7273"N	80°33'28.9548"W	510.01	86.187	0.48	0.28	2.05
5799.00	11.160	87.110	5752.98	-204.41	34.64	525.51	1702039.91	415422.32	39°38'8.7273"N	80°33'28.7424"W	526.65	86.229	0.17	0.00	-0.88
5886.00	11.290	87.660	5838.31	-211.30	35.41	542.43	1702056.83	415423.09	39°38'8.7369"N	80°33'28.5263"W	543.59	86.265	0.19	0.15	0.63
5972.00	11.210	86.000	5922.66	-217.98	36.34	559.18	1702073.58	415424.02	39°38'8.7480"N	80°33'28.3123"W	560.36	86.282	0.39	-0.09	-1.93
6058.00	10.520	84.990	6007.12	-224.08	37.61	575.34	1702089.74	415425.29	39°38'8.7624"N	80°33'28.1060"W	576.57	86.260	0.83	-0.80	-1.17
6145.00	10.010	84.980	6092.72	-229.79	38.96	590.79	1702105.18	415426.64	39°38'8.7776"N	80°33'27.9088"W	592.07	86.227	0.59	-0.59	-0.01
6231.00	10.110	82.010	6177.40	-234.95	40.67	605.71	1702120.10	415428.34	39°38'8.7961"N	80°33'27.7183"W	607.07	86.159	0.61	0.12	-3.45
6318.00	10.660	80.010	6262.98	-239.69	43.12	621.19	1702135.59	415430.80	39°38'8.8222"N	80°33'27.5208"W	622.69	86.029	0.76	0.63	-2.30
6404.00	10.690	77.980	6347.49	-243.97	46.17	636.83	1702151.22	415433.84	39°38'8.8541"N	80°33'27.3214"W	638.50	85.854	0.44	0.03	-2.36
6490.00	10.090	80.730	6432.08	-248.22	49.04	652.07	1702166.46	415436.72	39°38'8.8843"N	80°33'27.1271"W	653.91	85.699	0.90	-0.70	3.20
6576.00	10.100	81.610	6516.75	-252.83	51.35	666.96	1702181.35	415439.03	39°38'8.9089"N	80°33'26.9371"W	668.93	85.597	0.18	0.01	1.02
6663.00	10.360	79.990	6602.37	-257.45	53.83	682.21	1702196.60	415441.50	39°38'8.9351"N	80°33'26.7425"W	684.33	85.489	0.45	0.30	-1.86
6749.00	10.140	82.660	6686.99	-262.15	56.14	697.33	1702211.72	415443.81	39°38'8.9597"N	80°33'26.5496"W	699.59	85.397	0.61	-0.26	3.10
6770.00	10.330	84.620	6707.66	-263.45	56.55	701.04	1702215.43	415444.23	39°38'8.9642"N	80°33'26.5023"W	703.32	85.388	1.89	0.90	9.33
6883.00	9.220	57.620	6819.07	-266.21	62.35	718.78	1702233.17	415450.03	39°38'9.0236"N	80°33'26.2764"W	721.48	85.042	4.13	-0.98	-23.89
6978.00	10.710	359.870	6912.86	-257.52	75.29	725.21	1702239.59	415462.96	39°38'9.1522"N	80°33'26.1963"W	729.10	84.073	10.18	1.57	-60.79
7073.00	13.830	322.600	7005.82	-238.43	93.16	718.28	1702232.66	415480.84	39°38'9.3280"N	80°33'26.2875"W	724.29	82.610	8.77	3.28	-39.23
7168.00	20.730	340.070	7096.53	-210.53	118.04	705.63	1702220.01	415505.71	39°38'9.5724"N	80°33'26.4529"W	715.43	80.503	9.01	7.26	18.39
7263.00	28.760	341.630	7182.74	-171.14	155.60	692.67	1702207.06	415543.27	39°38'9.9420"N	80°33'26.6242"W	709.93	77.340	8.48	8.45	1.64
7357.00	39.020	341.670	7260.67	-119.34	205.28	676.19	1702190.58	415592.95	39°38'10.4311"N	80°33'26.8422"W	706.67	73.113	10.91	10.91	0.04
7452.00	48.740	341.560	7329.06	-54.25	267.69	655.45	1702169.84	415655.35	39°38'11.0455"N	80°33'27.1168"W	708.00	67.784	10.23	10.23	-0.12
7547.00	58.710	340.050	7385.20	21.61	339.90	630.24	1702144.63	415727.56	39°38'11.7562"N	80°33'27.4499"W	716.05	61.661	10.57	10.49	-1.59
7643.00	67.380	339.630	7428.67	106.56	420.15	600.76	1702115.16	415807.81	39°38'12.5458"N	80°33'27.8386"W	733.10	55.032	9.04	9.03	-0.44
7739.00	74.140	335.030	7460.30	196.90	503.68	565.79	1702080.19	415891.33	39°38'13.3672"N	80°33'28.2982"W	757.51	48.324	8.37	7.04	-4.79

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# Actual Wellpath Report

Denver 9H AWP Proj:19919'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## WELLPATH DATA (219 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]
7833.00	81.700	334.210	7479.96	288.73	586.66	526.41	1702040.81	415974.31	39°38'14.1827"N	80°33'28.8140"W	788.22	41.902	8.09	8.04	-0.87
7929.00	86.770	331.300	7489.60	384.20	671.54	482.70	1701997.10	416059.18	39°38'15.0164"N	80°33'29.3855"W	827.02	35.708	6.08	5.28	-3.03
8024.00	88.780	330.420	7493.29	479.03	754.45	436.47	1701950.88	416142.08	39°38'15.8303"N	80°33'29.9887"W	871.61	30.051	2.31	2.12	-0.93
8119.00	89.120	330.320	7495.03	573.88	837.01	389.51	1701903.92	416224.64	39°38'16.6408"N	80°33'30.6014"W	923.21	24.956	0.37	0.36	-0.11
8214.00	89.980	330.280	7495.78	668.74	919.53	342.45	1701856.86	416307.15	39°38'17.4508"N	80°33'31.2154"W	981.23	20.426	0.91	0.91	-0.04
8309.00	90.140	329.730	7495.68	763.57	1001.80	294.96	1701809.37	416389.42	39°38'18.2584"N	80°33'31.8348"W	1044.32	16.406	0.60	0.17	-0.58
8403.00	89.800	330.000	7495.73	857.40	1083.10	247.76	1701762.18	416470.71	39°38'19.0562"N	80°33'32.4502"W	1111.08	12.885	0.46	-0.36	0.29
8499.00	89.830	330.120	7496.04	953.23	1166.29	199.85	1701714.27	416553.90	39°38'19.8728"N	80°33'33.0751"W	1183.29	9.724	0.13	0.03	0.12
8594.00	91.560	329.930	7494.89	1048.06	1248.57	152.39	1701666.81	416636.18	39°38'20.6804"N	80°33'33.6941"W	1257.84	6.959	1.83	1.82	-0.20
8689.00	90.420	330.560	7493.25	1142.90	1331.03	105.25	1701619.68	416718.63	39°38'21.4898"N	80°33'34.3090"W	1335.19	4.521	1.37	-1.20	0.66
8784.00	90.330	330.220	7492.62	1237.77	1413.62	58.31	1701572.74	416801.22	39°38'22.3006"N	80°33'34.9214"W	1414.83	2.362	0.37	-0.09	-0.36
8880.00	91.870	331.300	7490.78	1333.64	1497.37	11.43	1701525.86	416884.96	39°38'23.1227"N	80°33'35.5333"W	1497.42	0.437	1.96	1.60	1.12
8975.00	89.030	330.490	7490.03	1428.54	1580.37	-34.77	1701479.66	416967.95	39°38'23.9375"N	80°33'36.1363"W	1580.75	358.740	3.11	-2.99	-0.85
9070.00	88.640	330.380	7491.97	1523.40	1662.98	-81.63	1701432.80	417050.56	39°38'24.7485"N	80°33'36.7478"W	1664.98	357.190	0.43	-0.41	-0.12
9165.00	89.810	330.350	7493.25	1618.25	1745.54	-128.60	1701385.83	417133.12	39°38'25.5589"N	80°33'37.3606"W	1750.27	355.786	1.23	1.23	-0.03
9260.00	90.300	330.480	7493.16	1713.12	1828.16	-175.51	1701338.93	417215.73	39°38'26.3699"N	80°33'37.9726"W	1836.56	354.516	0.53	0.52	0.14
9355.00	90.450	330.090	7492.54	1807.98	1910.66	-222.60	1701291.85	417298.23	39°38'27.1797"N	80°33'38.5869"W	1923.59	353.355	0.44	0.16	-0.41
9450.00	90.020	330.410	7492.15	1902.84	1993.14	-269.74	1701244.71	417380.70	39°38'27.9893"N	80°33'39.2019"W	2011.31	352.293	0.56	-0.45	0.34
9545.00	90.020	330.580	7492.12	1997.72	2075.82	-316.52	1701197.93	417463.37	39°38'28.8009"N	80°33'39.8124"W	2099.81	351.330	0.18	0.00	0.18
9641.00	89.440	330.040	7492.57	2093.58	2159.22	-364.07	1701150.38	417546.76	39°38'29.6195"N	80°33'40.4327"W	2189.69	350.429	0.83	-0.60	-0.56
9735.00	88.730	329.540	7494.07	2187.38	2240.44	-411.36	1701103.09	417627.98	39°38'30.4167"N	80°33'41.0495"W	2277.89	349.596	0.92	-0.76	-0.53
9831.00	89.520	330.370	7495.53	2283.19	2323.53	-459.42	1701055.04	417711.07	39°38'31.2322"N	80°33'41.6763"W	2368.51	348.815	1.20	0.83	0.86
9926.00	89.590	330.490	7496.26	2378.06	2406.15	-506.30	1701008.16	417793.69	39°38'32.0433"N	80°33'42.2880"W	2458.84	348.117	0.14	0.06	0.13
10020.00	90.760	331.480	7495.97	2471.98	2488.35	-551.89	1700962.57	417875.88	39°38'32.8503"N	80°33'42.8832"W	2548.82	347.495	1.63	1.24	1.05
10115.00	90.110	330.830	7495.25	2566.90	2571.56	-597.72	1700916.74	417959.08	39°38'33.6672"N	80°33'43.4815"W	2640.11	346.915	0.97	-0.68	-0.68
10210.00	89.770	329.830	7495.35	2661.77	2654.11	-644.75	1700869.72	418041.62	39°38'34.4775"N	80°33'44.0951"W	2731.30	346.346	1.11	-0.36	-1.05
10305.00	90.020	330.930	7495.52	2756.63	2736.69	-691.70	1700822.77	418124.20	39°38'35.2881"N	80°33'44.7077"W	2822.75	345.815	1.19	0.26	1.16
10399.00	90.330	330.850	7495.23	2850.54	2818.82	-737.43	1700777.04	418206.32	39°38'36.0944"N	80°33'45.3047"W	2913.68	345.339	0.34	0.33	-0.09
10494.00	89.430	330.290	7495.43	2945.43	2901.56	-784.11	1700730.37	418289.06	39°38'36.9066"N	80°33'45.9138"W	3005.64	344.878	1.12	-0.95	-0.59
10589.00	90.750	330.070	7495.28	3040.27	2983.97	-831.35	1700683.13	418371.47	39°38'37.7156"N	80°33'46.5301"W	3097.62	344.432	1.41	1.39	-0.23

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# Actual Wellpath Report

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## WELLPATH DATA (219 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]
10684.00	89.620	329.150	7494.98	3135.06	3065.92	-879.41	1700635.08	418453.41	39°38'38.5197"N	80°33'47.1568"W	3189.55	343.995	1.53	-1.19	-0.97
10779.00	90.480	329.460	7494.89	3229.82	3147.61	-927.90	1700586.59	418535.10	39°38'39.3214"N	80°33'47.7890"W	3281.53	343.575	0.96	0.91	0.33
10874.00	89.370	327.520	7495.02	3324.47	3228.60	-977.55	1700536.94	418616.08	39°38'40.1159"N	80°33'48.4359"W	3373.34	343.155	2.35	-1.17	-2.04
10968.00	90.630	329.920	7495.02	3418.15	3308.92	-1026.35	1700488.14	418696.40	39°38'40.9040"N	80°33'49.0719"W	3464.44	342.767	2.88	1.34	2.55
11063.00	90.110	329.720	7494.41	3512.96	3391.04	-1074.11	1700440.39	418778.52	39°38'41.7100"N	80°33'49.6947"W	3557.09	342.424	0.59	-0.55	-0.21
11158.00	89.250	329.200	7494.94	3607.74	3472.86	-1122.38	1700392.12	418860.33	39°38'42.5129"N	80°33'50.3242"W	3649.73	342.090	1.06	-0.91	-0.55
11253.00	89.980	329.200	7495.57	3702.48	3554.46	-1171.02	1700343.48	418941.92	39°38'43.3136"N	80°33'50.9583"W	3742.39	341.765	0.77	0.77	0.00
11348.00	89.370	329.330	7496.11	3797.23	3636.12	-1219.57	1700294.93	419023.57	39°38'44.1149"N	80°33'51.5913"W	3835.19	341.458	0.66	-0.64	0.14
11443.00	88.410	328.690	7497.95	3891.93	3717.54	-1268.48	1700246.03	419104.99	39°38'44.9138"N	80°33'52.2287"W	3927.99	341.160	1.21	-1.01	-0.67
11538.00	89.400	329.520	7499.77	3986.65	3799.04	-1317.25	1700197.26	419186.49	39°38'45.7135"N	80°33'52.8645"W	4020.93	340.877	1.36	1.04	0.87
11633.00	89.580	329.700	7500.61	4081.44	3880.99	-1365.30	1700149.21	419268.43	39°38'46.5177"N	80°33'53.4912"W	4114.14	340.618	0.27	0.19	0.19
11728.00	89.770	331.680	7501.15	4176.33	3963.82	-1411.81	1700102.71	419351.26	39°38'47.3309"N	80°33'54.0981"W	4207.74	340.395	2.09	0.20	2.08
11822.00	89.860	329.770	7501.46	4270.22	4045.81	-1457.77	1700056.75	419433.24	39°38'48.1357"N	80°33'54.6981"W	4300.43	340.185	2.03	0.10	-2.03
11917.00	90.020	328.890	7501.56	4364.98	4127.52	-1506.23	1700008.29	419514.95	39°38'48.9376"N	80°33'55.3299"W	4393.76	339.952	0.94	0.17	-0.93
12012.00	90.140	328.500	7501.42	4459.66	4208.69	-1555.59	1699958.93	419596.11	39°38'49.7339"N	80°33'55.9732"W	4486.97	339.715	0.43	0.13	-0.41
12107.00	89.920	329.560	7501.37	4554.39	4290.15	-1604.48	1699910.05	419677.56	39°38'50.5332"N	80°33'56.6105"W	4580.36	339.495	1.14	-0.23	1.12
12201.00	89.890	329.680	7501.53	4648.18	4371.24	-1652.01	1699862.52	419758.65	39°38'51.3290"N	80°33'57.2304"W	4672.99	339.297	0.13	-0.03	0.13
12297.00	89.520	329.180	7502.02	4743.95	4453.89	-1700.84	1699813.70	419841.30	39°38'52.1401"N	80°33'57.8671"W	4767.60	339.099	0.65	-0.39	-0.52
12392.00	89.490	329.680	7502.84	4838.72	4535.69	-1749.15	1699765.38	419923.09	39°38'52.9427"N	80°33'58.4971"W	4861.27	338.911	0.53	-0.03	0.53
12487.00	89.860	329.660	7503.38	4933.52	4617.68	-1797.12	1699717.42	420005.08	39°38'53.7474"N	80°33'59.1228"W	4955.06	338.735	0.39	0.39	-0.02
12582.00	89.490	329.500	7503.92	5028.31	4699.60	-1845.23	1699669.32	420086.99	39°38'54.5513"N	80°33'59.7501"W	5048.87	338.563	0.42	-0.39	-0.17
12677.00	89.550	329.870	7504.72	5123.10	4781.61	-1893.18	1699621.37	420169.00	39°38'55.3561"N	80°34'0.3755"W	5142.75	338.400	0.39	0.06	0.39
12772.00	89.650	329.590	7505.38	5217.91	4863.66	-1941.06	1699573.49	420251.04	39°38'56.1613"N	80°34'1.0001"W	5236.68	338.243	0.31	0.11	-0.29
12868.00	89.490	329.220	7506.10	5313.67	4946.29	-1989.92	1699524.63	420333.67	39°38'56.9722"N	80°34'1.6372"W	5331.56	338.085	0.42	-0.17	-0.39
12963.00	89.560	329.430	7506.89	5408.43	5027.99	-2038.38	1699476.17	420415.36	39°38'57.7740"N	80°34'2.2691"W	5425.47	337.932	0.23	0.07	0.22
13058.00	89.460	328.950	7507.70	5503.17	5109.58	-2087.04	1699427.52	420496.95	39°38'58.5745"N	80°34'2.9035"W	5519.38	337.782	0.52	-0.11	-0.51
13153.00	89.770	329.690	7508.34	5597.93	5191.28	-2135.51	1699379.05	420578.64	39°38'59.3762"N	80°34'3.5355"W	5613.36	337.639	0.84	0.33	0.78
13248.00	89.650	329.710	7508.82	5692.73	5273.30	-2183.44	1699331.12	420660.66	39°39'0.1812"N	80°34'4.1607"W	5707.46	337.508	0.13	-0.13	0.02
13343.00	89.430	329.490	7509.58	5787.52	5355.24	-2231.51	1699283.05	420742.59	39°39'0.9853"N	80°34'4.7877"W	5801.57	337.379	0.33	-0.23	-0.23
13437.00	89.860	329.330	7510.17	5881.29	5436.16	-2279.35	1699235.22	420823.50	39°39'1.7793"N	80°34'5.4115"W	5894.68	337.252	0.49	0.46	-0.17

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

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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]
13533.00	89.590	329.260	7510.63	5977.05	5518.70	-2328.37	1699186.21	420906.04	39°39'2.5892"N	80°34'6.0506"W	5989.77	337.125	0.29	-0.28	-0.07
13628.00	89.590	329.500	7511.31	6071.81	5600.45	-2376.75	1699137.82	420987.79	39°39'3.3914"N	80°34'6.6816"W	6083.91	337.004	0.25	0.00	0.25
13723.00	89.590	329.520	7511.99	6166.59	5682.31	-2424.95	1699089.62	421069.64	39°39'4.1948"N	80°34'7.3102"W	6178.11	336.889	0.02	0.00	0.02
13818.00	89.620	329.810	7512.64	6261.39	5764.30	-2472.93	1699041.65	421151.63	39°39'4.9994"N	80°34'7.9361"W	6272.36	336.780	0.31	0.03	0.31
13913.00	89.710	329.850	7513.20	6356.20	5846.43	-2520.68	1698993.91	421233.75	39°39'5.8054"N	80°34'8.5589"W	6366.68	336.677	0.10	0.09	0.04
14008.00	90.630	330.170	7512.92	6451.04	5928.71	-2568.16	1698946.43	421316.03	39°39'6.6129"N	80°34'9.1784"W	6461.04	336.579	1.03	0.97	0.34
14103.00	90.290	329.440	7512.15	6545.85	6010.82	-2615.94	1698898.65	421398.13	39°39'7.4187"N	80°34'9.8017"W	6555.38	336.481	0.85	-0.36	-0.77
14198.00	90.140	329.270	7511.80	6640.61	6092.55	-2664.36	1698850.23	421479.86	39°39'8.2207"N	80°34'10.4332"W	6649.66	336.380	0.24	-0.16	-0.18
14293.00	89.830	328.790	7511.82	6735.33	6174.00	-2713.25	1698801.35	421561.31	39°39'9.0200"N	80°34'11.0705"W	6743.89	336.276	0.60	-0.33	-0.51
14389.00	89.860	329.140	7512.08	6831.05	6256.26	-2762.74	1698751.86	421643.56	39°39'9.8271"N	80°34'11.7158"W	6839.12	336.174	0.37	0.03	0.36
14484.00	89.890	329.620	7512.29	6925.81	6338.01	-2811.13	1698703.47	421725.31	39°39'10.6293"N	80°34'12.3468"W	6933.46	336.081	0.51	0.03	0.51
14579.00	89.950	329.780	7512.42	7020.62	6420.04	-2859.06	1698655.55	421807.32	39°39'11.4342"N	80°34'12.9720"W	7027.88	335.995	0.18	0.06	0.17
14674.00	89.830	329.160	7512.60	7115.39	6501.87	-2907.32	1698607.29	421889.15	39°39'12.2372"N	80°34'13.6014"W	7122.27	335.908	0.66	-0.13	-0.65
14769.00	89.680	329.280	7513.01	7210.14	6583.48	-2955.93	1698558.68	421970.76	39°39'13.0380"N	80°34'14.2353"W	7216.63	335.820	0.20	-0.16	0.13
14864.00	90.720	329.770	7512.68	7304.92	6665.36	-3004.11	1698510.50	422052.63	39°39'13.8415"N	80°34'14.8637"W	7311.07	335.739	1.21	1.09	0.52
14959.00	88.940	329.560	7512.96	7399.72	6747.35	-3052.09	1698462.53	422134.61	39°39'14.6461"N	80°34'15.4896"W	7405.53	335.661	1.89	-1.87	-0.22
15054.00	90.080	330.140	7513.77	7494.53	6829.49	-3099.80	1698414.82	422216.75	39°39'15.4522"N	80°34'16.1121"W	7500.05	335.587	1.35	1.20	0.61
15149.00	89.800	329.150	7513.87	7589.33	6911.47	-3147.81	1698366.81	422298.72	39°39'16.2567"N	80°34'16.7383"W	7594.54	335.513	1.08	-0.29	-1.04
15244.00	89.890	329.470	7514.13	7684.09	6993.16	-3196.30	1698318.33	422380.41	39°39'17.0583"N	80°34'17.3706"W	7688.99	335.437	0.35	0.09	0.34
15338.00	90.020	329.440	7514.20	7777.87	7074.12	-3244.07	1698270.56	422461.36	39°39'17.8527"N	80°34'17.9937"W	7782.49	335.365	0.14	0.14	-0.03
15433.00	89.920	329.520	7514.25	7872.64	7155.95	-3292.31	1698222.32	422543.20	39°39'18.6558"N	80°34'18.6230"W	7876.99	335.294	0.13	-0.11	0.08
15528.00	89.920	329.580	7514.38	7967.43	7237.85	-3340.46	1698174.18	422625.09	39°39'19.4594"N	80°34'19.2510"W	7971.52	335.225	0.06	0.00	0.06
15623.00	90.010	329.690	7514.44	8062.23	7319.82	-3388.48	1698126.16	422707.05	39°39'20.2638"N	80°34'19.8774"W	8066.07	335.160	0.15	0.09	0.12
15718.00	90.080	329.890	7514.37	8157.04	7401.92	-3436.28	1698078.36	422789.14	39°39'21.0695"N	80°34'20.5011"W	8160.66	335.097	0.22	0.07	0.21
15813.00	90.050	329.820	7514.26	8251.86	7484.07	-3483.99	1698030.65	422871.29	39°39'21.8757"N	80°34'21.1235"W	8255.27	335.037	0.08	-0.03	-0.07
15908.00	89.830	329.540	7514.36	8346.66	7566.07	-3531.95	1697982.70	422953.29	39°39'22.6805"N	80°34'21.7492"W	8349.86	334.976	0.37	-0.23	-0.29
16003.00	90.010	329.730	7514.49	8441.45	7648.04	-3579.97	1697934.68	423035.25	39°39'23.4848"N	80°34'22.3756"W	8444.45	334.916	0.28	0.19	0.20
16098.00	90.260	329.940	7514.27	8536.27	7730.18	-3627.71	1697886.94	423117.38	39°39'24.2909"N	80°34'22.9985"W	8539.08	334.860	0.34	0.26	0.22
16194.00	90.050	329.300	7514.01	8632.06	7812.99	-3676.26	1697838.40	423200.20	39°39'25.1036"N	80°34'23.6318"W	8634.68	334.802	0.70	-0.22	-0.67
16289.00	90.230	329.670	7513.78	8726.84	7894.84	-3724.50	1697790.16	423282.03	39°39'25.9067"N	80°34'24.2610"W	8729.28	334.744	0.43	0.19	0.39

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# Actual Wellpath Report

Denver 9H AWP Proj:19919'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## WELLPATH DATA (219 stations)

ID	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
16384.00	90.050	329.730	7513.54	8821.64	7976.86	-3772.43	1697742.23	423364.05	39°39'26.7116"N	80°34'24.8863"W	8823.91	334.690	0.20	-0.19	0.06
16479.00	89.680	329.180	7513.77	8916.42	8058.67	-3820.71	1697693.96	423445.86	39°39'27.5144"N	80°34'25.5161"W	8918.52	334.634	0.70	-0.39	-0.58
16574.00	89.800	330.470	7514.20	9011.23	8140.80	-3868.46	1697646.21	423527.98	39°39'28.3204"N	80°34'26.1391"W	9013.19	334.583	1.36	0.13	1.36
16669.00	89.980	330.700	7514.38	9106.12	8223.55	-3915.11	1697599.56	423610.73	39°39'29.1327"N	80°34'26.7482"W	9107.96	334.542	0.31	0.19	0.24
16765.00	89.950	330.650	7514.44	9202.01	8307.25	-3962.13	1697552.54	423694.42	39°39'29.9542"N	80°34'27.3621"W	9203.74	334.501	0.06	-0.03	-0.05
16859.00	89.830	330.680	7514.62	9295.90	8389.20	-4008.18	1697506.49	423776.36	39°39'30.7586"N	80°34'27.9634"W	9297.53	334.463	0.13	-0.13	0.03
16954.00	89.800	330.450	7514.93	9390.79	8471.93	-4054.87	1697459.81	423859.09	39°39'31.5707"N	80°34'28.5730"W	9392.32	334.423	0.24	-0.03	-0.24
17049.00	89.890	330.650	7515.18	9485.67	8554.66	-4101.58	1697413.10	423941.81	39°39'32.3827"N	80°34'29.1828"W	9487.10	334.384	0.23	0.09	0.21
17144.00	90.110	331.020	7515.18	9580.58	8637.61	-4147.87	1697366.81	424024.76	39°39'33.1971"N	80°34'29.7874"W	9581.92	334.349	0.45	0.23	0.39
17238.00	90.440	331.120	7514.73	9674.50	8719.88	-4193.34	1697321.34	424107.03	39°39'34.0047"N	80°34'30.3813"W	9675.77	334.317	0.37	0.35	0.11
17333.00	90.170	327.040	7514.23	9769.21	8801.36	-4242.15	1697272.54	424188.50	39°39'34.8041"N	80°34'31.0177"W	9770.35	334.267	4.30	-0.28	-4.29
17428.00	89.920	329.740	7514.15	9863.84	8882.26	-4291.94	1697222.76	424269.40	39°39'35.5977"N	80°34'31.6667"W	9864.85	334.210	2.85	-0.26	2.84
17523.00	90.230	330.140	7514.03	9958.67	8964.48	-4339.52	1697175.17	424351.61	39°39'36.4046"N	80°34'32.2876"W	9959.59	334.169	0.53	0.33	0.42
17616.00	90.290	329.650	7513.61	10051.49	9044.94	-4386.17	1697128.53	424432.06	39°39'37.1942"N	80°34'32.8963"W	10052.33	334.130	0.53	0.06	-0.53
17711.00	90.350	330.160	7513.08	10146.31	9127.13	-4433.80	1697080.90	424514.25	39°39'38.0008"N	80°34'33.5180"W	10147.07	334.090	0.54	0.06	0.54
17807.00	90.440	331.070	7512.41	10242.20	9210.77	-4480.91	1697033.80	424597.89	39°39'38.8219"N	80°34'34.1330"W	10242.89	334.058	0.95	0.09	0.95
17902.00	90.440	330.600	7511.68	10337.10	9293.73	-4527.20	1696987.51	424680.84	39°39'39.6361"N	80°34'34.7376"W	10337.74	334.028	0.49	0.00	-0.49
17997.00	90.010	330.740	7511.31	10431.99	9376.55	-4573.74	1696940.97	424763.65	39°39'40.4491"N	80°34'35.3453"W	10432.58	333.998	0.48	-0.45	0.15
18092.00	90.040	331.110	7511.27	10526.90	9459.58	-4619.90	1696894.81	424846.68	39°39'41.2642"N	80°34'35.9482"W	10527.44	333.970	0.39	0.03	0.39
18187.00	90.040	330.930	7511.20	10621.82	9542.68	-4665.93	1696848.79	424929.78	39°39'42.0800"N	80°34'36.5494"W	10622.32	333.944	0.19	0.00	-0.19
18281.00	90.100	330.880	7511.09	10715.73	9624.82	-4711.64	1696803.08	425011.91	39°39'42.8863"N	80°34'37.1464"W	10716.19	333.917	0.08	0.06	-0.05
18376.00	90.100	330.700	7510.92	10810.64	9707.74	-4758.00	1696756.72	425094.82	39°39'43.7002"N	80°34'37.7519"W	10811.05	333.889	0.19	0.00	-0.19
18471.00	90.040	330.900	7510.81	10905.54	9790.67	-4804.35	1696710.38	425177.75	39°39'44.5143"N	80°34'38.3572"W	10905.91	333.863	0.22	-0.06	0.21
18566.00	90.100	330.600	7510.69	11000.44	9873.55	-4850.76	1696663.96	425260.63	39°39'45.3279"N	80°34'38.9634"W	11000.77	333.836	0.32	0.06	-0.32
18661.00	90.010	330.920	7510.60	11095.34	9956.45	-4897.17	1696617.56	425343.52	39°39'46.1416"N	80°34'39.5694"W	11095.64	333.809	0.35	-0.09	0.34
18756.00	90.070	330.660	7510.53	11190.24	10039.37	-4943.53	1696571.20	425426.43	39°39'46.9555"N	80°34'40.1749"W	11190.50	333.784	0.28	0.06	-0.27
18851.00	89.300	330.180	7511.06	11285.11	10121.98	-4990.42	1696524.31	425509.04	39°39'47.7664"N	80°34'40.7872"W	11285.34	333.755	0.96	-0.81	-0.51
18947.00	89.640	330.610	7511.94	11380.97	10205.45	-5037.85	1696476.89	425592.50	39°39'48.5856"N	80°34'41.4063"W	11381.17	333.727	0.57	0.35	0.45
19042.00	89.760	331.140	7512.44	11475.88	10288.43	-5084.08	1696430.66	425675.48	39°39'49.4002"N	80°34'42.0102"W	11476.05	333.703	0.57	0.13	0.56
19137.00	89.860	330.910	7512.76	11570.80	10371.54	-5130.11	1696384.64	425758.59	39°39'50.2161"N	80°34'42.6114"W	11570.95	333.681	0.26	0.11	-0.24

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# Actual Wellpath Report

Denver 9H AWP Proj:19919'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## WELLPATH DATA (219 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]
19232.00	89.520	329.180	7513.27	11665.63	10453.85	-5177.54	1696337.21	425840.89	39°39'51.0238"N	80°34'43.2305"W	11665.75	333.652	1.86	-0.36	-1.82
19328.00	89.860	329.760	7513.79	11761.41	10536.54	-5226.30	1696288.45	425923.57	39°39'51.8352"N	80°34'43.8667"W	11761.50	333.618	0.70	0.35	0.60
19422.00	89.920	329.980	7513.97	11855.23	10617.84	-5273.49	1696241.26	426004.87	39°39'52.6330"N	80°34'44.4825"W	11855.30	333.588	0.24	0.06	0.23
19518.00	89.670	329.610	7514.31	11951.04	10700.80	-5321.79	1696192.97	426087.83	39°39'53.4472"N	80°34'45.1128"W	11951.09	333.558	0.47	-0.26	-0.39
19612.00	89.760	329.600	7514.78	12044.83	10781.88	-5369.34	1696145.41	426168.90	39°39'54.2428"N	80°34'45.7333"W	12044.87	333.527	0.10	0.10	-0.01
19707.00	89.700	329.710	7515.23	12139.63	10863.87	-5417.34	1696097.42	426250.88	39°39'55.0473"N	80°34'46.3596"W	12139.65	333.497	0.13	-0.06	0.12
19803.00	89.550	329.550	7515.86	12235.42	10946.69	-5465.87	1696048.89	426333.70	39°39'55.8600"N	80°34'46.9929"W	12235.43	333.466	0.23	-0.16	-0.17
19894.00	89.520	329.690	7516.60	12326.22	11025.19	-5511.89	1696002.87	426412.20	39°39'56.6303"N	80°34'47.5934"W	12326.23	333.438	0.16	-0.03	0.15
19919.00†	89.520	329.690	7516.81	12351.17	11046.77	-5524.51	1695990.26	426433.78	39°39'56.8421"N	80°34'47.7580"W	12351.17	333.430	0.00	0.00	0.00

## HOLE & CASING SECTIONS - Ref Wellbore: Denver 9H AWB Ref Wellpath: Denver 9H AWP Proj:19919'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
17.5in Open Hole	28.00	1207.00	1179.00	28.00	1207.00	0.00	0.00	-0.81	-0.59
13.375in Casing Surface	28.00	1207.00	1179.00	28.00	1207.00	0.00	0.00	-0.81	-0.59
12.25in Open Hole	1207.00	2629.00	1422.00	1207.00	2628.97	-0.81	-0.59	0.80	6.96
9.625in Casing Intermediate	28.00	2629.00	2601.00	28.00	2628.97	0.00	0.00	0.80	6.96
8.75in Open Hole	2629.00	6845.00	4216.00	2628.97	6781.57	0.80	6.96	59.53	713.36
8.5in Open Hole	6845.00	19919.00	13074.00	6781.57	7516.81	59.53	713.36	11046.77	-5524.51
6in Casing Production	28.00	19919.00	19891.00	28.00	7516.81	0.00	0.00	11046.77	-5524.51

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Denver 9H AWP Proj:19919'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Denver 9H BHL Rev-1	7481.00	11043.14	-5533.09	1695981.68	426430.15	39°39'56.8052"N	80°34'47.8672"W	point
Denver 9H LP Rev-1	7481.00	662.82	494.11	1702008.51	416050.46	39°38'14.9316"N	80°33'29.2383"W	point
Denver Hardline 1 (7.31.23)	8000.00	10748.89	-10220.79	1691294.27	426135.91	39°39'53.3361"N	80°35'47.7592"W	polygon
2D Polygon: dimensions not calculated								
Denver Hardline 2 (7.31.23)	8000.00	11251.11	-9356.03	1692158.97	426638.10	39°39'58.4033"N	80°35'36.7805"W	polygon
2D Polygon: dimensions not calculated								
Denver Hardline 3 (7.31.23)	8000.00	15552.73	-10697.93	1690817.16	430939.45	39°40'40.7515"N	80°35'54.6110"W	polygon
2D Polygon: dimensions not calculated								
Denver Hardline 4 (7.31.23)	8000.00	13234.62	-8195.15	1693319.78	428621.49	39°40'18.1445"N	80°35'22.2448"W	polygon
2D Polygon: dimensions not calculated								
Denver Hardline 5 (7.31.23)	8000.00	10940.02	-5706.05	1695808.73	426327.03	39°39'55.7656"N	80°34'50.0628"W	polygon
2D Polygon: dimensions not calculated								

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# Actual Wellpath Report

Denver 9H AWP Proj:19919'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

## WELLPATH COMPOSITION - Ref Wellbore: Denver 9H AWB Ref Wellpath: Denver 9H AWP Proj:19919'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	2574.00	Gyrodata 2015 - CT+WIR+DPIPE			
2574.00	6770.00	OWSG MWD rev2 + HRGM	01 Gyrodata Cont Gyro <12-1/4">(115'-2574')	Denver 9H AWB	7/27/2023
6770.00	19919.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	02 SDI MWD <8-3/4">(2574')(2653'-6770')	Denver 9H AWB	7/27/2023
			03 BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(6770')(6883'-19894')	Denver 9H AWB	8/26/2023

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# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Denver 9H
Field	Wetzel	API	47-103-03516-0000
Facility	Denver Pad	Wellbore	Denver 9H AWB
Slot	Slot 09		

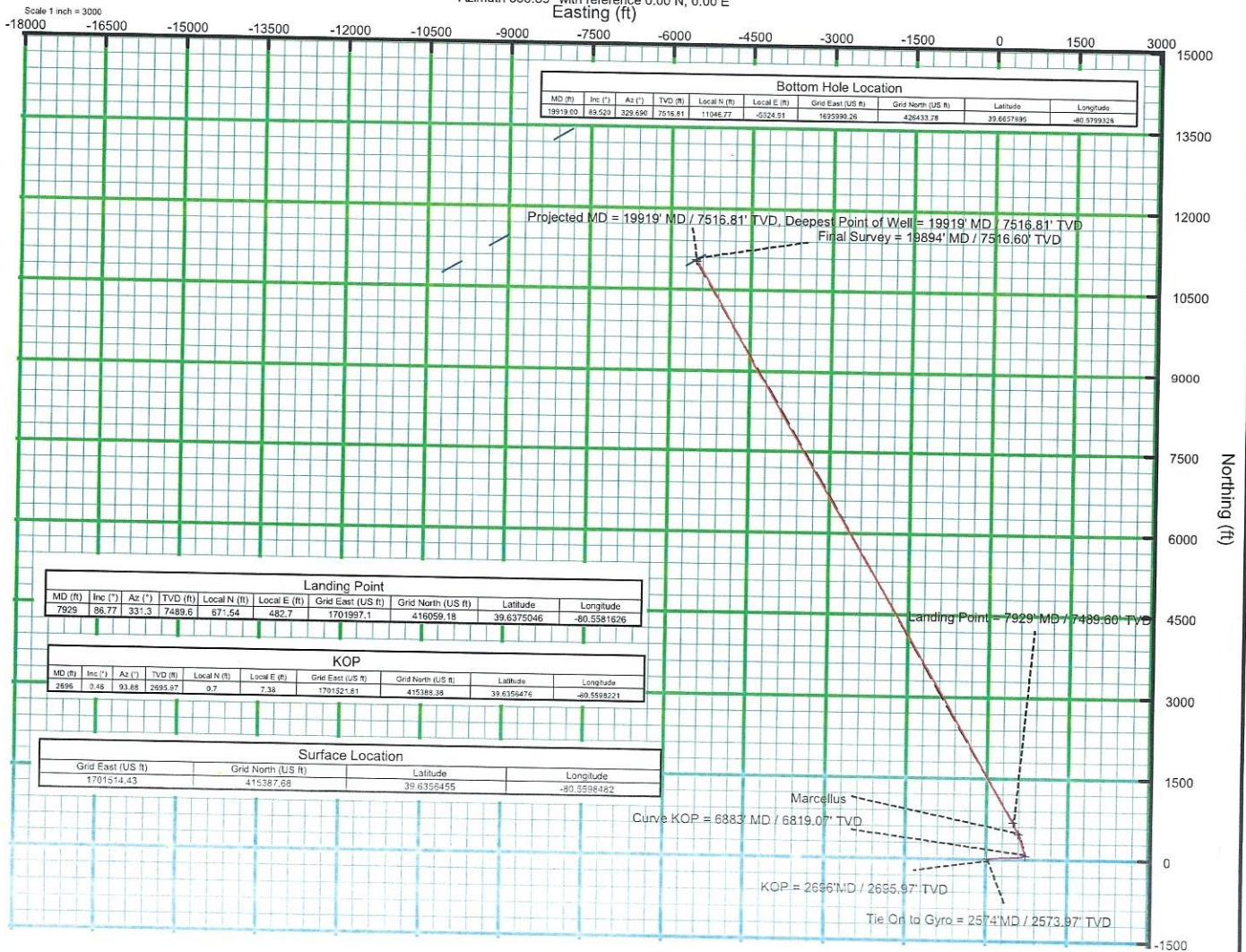
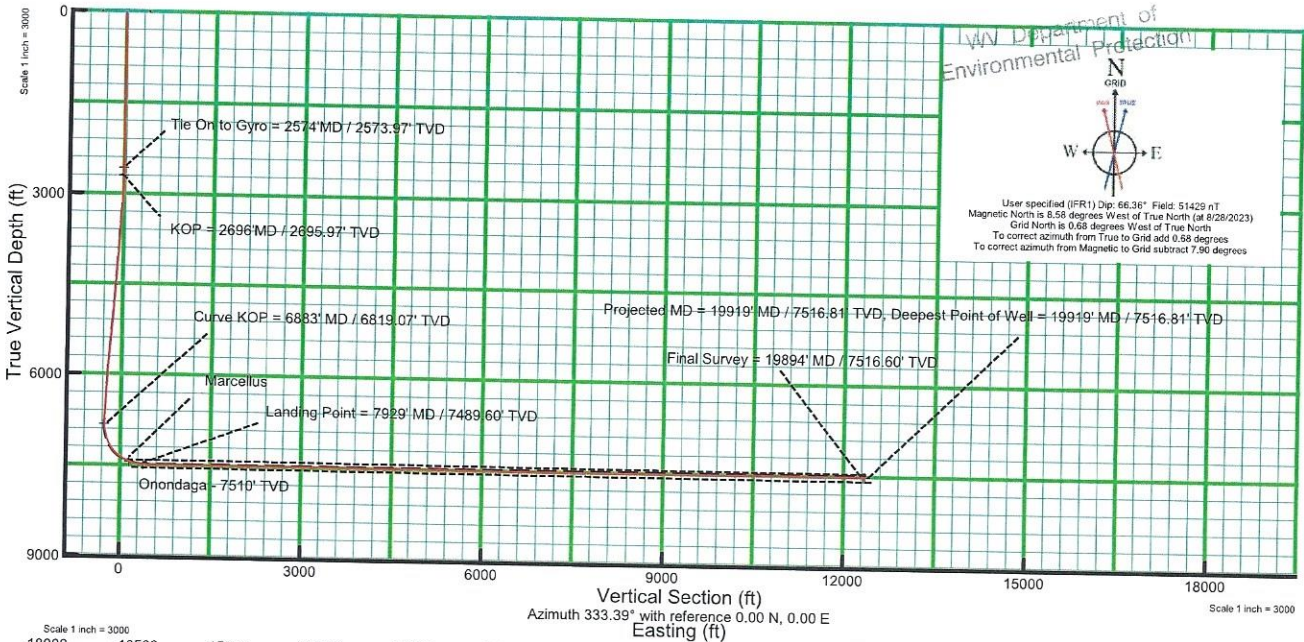
COMMENTS
<p><b>Wellpath general comments</b> API: 47-103-03516-0000 BH Job #: 111914517 Rig: Patterson 292 Duration: 8/30/2023-8/31/2023</p> <p>01_Gyrodata Cont Gyro &lt;12-1/4"&gt;(115'-2574') 02_SDI MWD &lt;8-3/4"&gt;(2574')(2653'-6770') 03_BH Lucida+SQC IFR1+SAG+FDIR &lt;8-1/2"&gt;(6770')(6883'-19894')</p> <p>Landing Pt. @ 7929' MD Final Survey @ 19894' MD Projected MD at TD: 19919'</p>

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KB Elevation=1379 FT  
 Ground Elevation=1351 FT  
 All Survey Measurements were taken from KB Elevation

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