



Actual Wellpath Report

Denver 1H AWP Proj: 23015'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 1H
Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Hilpthop
Scale	0.999941	Report Generated	07/Aug/2023 at 08:51
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	0.00	0.00	1701457.51	415406.65	39°38'8.5046"N	80°33'36.1840"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 01)	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	317.31°



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WELLPATH DATA (260 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	88.670	0.00	0.00	0.00	0.00	1701457.51	415406.65	39°38'8.5046"N	80°33'36.1840"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	88.670	28.00	0.00	0.00	0.00	1701457.51	415406.65	39°38'8.5046"N	80°33'36.1840"W	0.00	0.000	0.00	0.00	0.00
115.00	0.260	88.670	115.00	-0.13	0.00	0.20	1701457.71	415406.65	39°38'8.5046"N	80°33'36.1815"W	0.20	88.670	0.30	0.30	0.00
215.00	0.050	87.360	215.00	-0.31	0.01	0.47	1701457.98	415406.66	39°38'8.5047"N	80°33'36.1780"W	0.47	88.548	0.21	-0.21	-1.31
315.00	0.150	252.020	315.00	-0.28	-0.03	0.39	1701457.90	415406.62	39°38'8.5043"N	80°33'36.1790"W	0.39	93.925	0.20	0.10	164.66
415.00	0.080	247.620	415.00	-0.20	-0.09	0.20	1701457.71	415406.56	39°38'8.5036"N	80°33'36.1815"W	0.22	115.309	0.07	-0.07	-4.40
515.00	0.120	324.420	515.00	-0.07	-0.03	0.07	1701457.58	415406.62	39°38'8.5042"N	80°33'36.1831"W	0.08	115.794	0.13	0.04	76.80
615.00	0.090	12.160	615.00	0.07	0.13	0.03	1701457.54	415406.78	39°38'8.5058"N	80°33'36.1837"W	0.13	12.393	0.09	-0.03	47.74
715.00	0.110	103.170	715.00	0.04	0.18	0.14	1701457.65	415406.83	39°38'8.5064"N	80°33'36.1823"W	0.23	37.168	0.14	0.02	91.01
815.00	0.060	235.470	815.00	-0.03	0.13	0.19	1701457.70	415406.78	39°38'8.5059"N	80°33'36.1816"W	0.23	55.298	0.16	-0.05	132.30
915.00	0.050	45.680	915.00	-0.02	0.13	0.18	1701457.69	415406.78	39°38'8.5059"N	80°33'36.1818"W	0.22	53.356	0.11	-0.01	170.21
1015.00	0.110	318.670	1015.00	0.07	0.23	0.14	1701457.65	415406.88	39°38'8.5069"N	80°33'36.1822"W	0.27	31.665	0.12	0.06	-87.01
1115.00	0.080	216.900	1115.00	0.16	0.25	0.04	1701457.55	415406.90	39°38'8.5070"N	80°33'36.1835"W	0.25	8.833	0.15	-0.03	-101.77
1215.00	0.070	345.340	1215.00	0.20	0.25	-0.02	1701457.49	415406.90	39°38'8.5071"N	80°33'36.1843"W	0.25	355.816	0.14	-0.01	128.44
1315.00	0.070	326.530	1315.00	0.31	0.36	-0.07	1701457.44	415407.01	39°38'8.5081"N	80°33'36.1849"W	0.37	349.448	0.02	0.00	-18.81
1415.00	0.170	260.320	1415.00	0.45	0.39	-0.25	1701457.26	415407.04	39°38'8.5084"N	80°33'36.1872"W	0.46	327.544	0.16	0.10	-66.21
1515.00	0.080	239.980	1515.00	0.55	0.33	-0.45	1701457.06	415406.98	39°38'8.5078"N	80°33'36.1898"W	0.56	305.950	0.10	-0.09	-20.34
1615.00	0.120	210.500	1615.00	0.54	0.20	-0.57	1701456.94	415406.85	39°38'8.5065"N	80°33'36.1913"W	0.60	289.786	0.06	0.04	-29.48
1715.00	0.190	252.700	1715.00	0.58	0.06	-0.78	1701456.73	415406.71	39°38'8.5051"N	80°33'36.1940"W	0.78	274.750	0.13	0.07	42.20
1815.00	0.080	341.180	1815.00	0.71	0.08	-0.96	1701456.55	415406.73	39°38'8.5052"N	80°33'36.1963"W	0.96	274.854	0.20	-0.11	88.48
1915.00	0.240	305.560	1915.00	0.98	0.27	-1.15	1701456.36	415406.92	39°38'8.5071"N	80°33'36.1988"W	1.18	283.151	0.18	0.16	-35.62
2015.00	0.190	285.170	2015.00	1.33	0.43	-1.48	1701456.03	415407.08	39°38'8.5087"N	80°33'36.2030"W	1.55	286.329	0.09	-0.05	-20.39
2115.00	0.140	176.220	2115.00	1.37	0.36	-1.64	1701455.87	415407.01	39°38'8.5079"N	80°33'36.2049"W	1.67	282.283	0.27	-0.05	-108.95
2215.00	0.520	175.210	2214.99	0.92	-0.22	-1.59	1701455.92	415406.43	39°38'8.5022"N	80°33'36.2043"W	1.60	262.190	0.38	0.38	-1.01
2315.00	0.290	196.620	2314.99	0.43	-0.91	-1.62	1701455.89	415405.74	39°38'8.4953"N	80°33'36.2046"W	1.86	240.663	0.27	-0.23	21.41
2415.00	0.280	199.410	2414.99	0.19	-1.39	-1.78	1701455.73	415405.26	39°38'8.4906"N	80°33'36.2065"W	2.25	232.063	0.02	-0.01	2.79
2515.00	0.310	171.740	2514.99	-0.15	-1.88	-1.82	1701455.69	415404.77	39°38'8.4857"N	80°33'36.2070"W	2.62	224.011	0.14	0.03	-27.67
2568.00	0.360	184.630	2567.99	-0.38	-2.19	-1.81	1701455.70	415404.46	39°38'8.4827"N	80°33'36.2068"W	2.84	219.594	0.17	0.09	24.32
2642.00	0.360	180.000	2641.99	-0.71	-2.66	-1.83	1701455.68	415403.99	39°38'8.4781"N	80°33'36.2070"W	3.23	214.591	0.04	0.00	-6.26
2686.00	0.470	227.340	2685.99	-0.81	-2.92	-1.96	1701455.55	415403.73	39°38'8.4755"N	80°33'36.2087"W	3.52	213.961	0.79	0.25	107.59

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Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

WELLPATH DATA (260 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]
2729.00	1.420	254.340	2728.98	-0.57	-3.18	-2.61	1701454.90	415403.47	39°38'8.4728"N	80°33'36.2168"W	4.11	219.347	2.38	2.21	62.79
2772.00	2.710	261.090	2771.95	0.24	-3.48	-4.12	1701453.39	415403.17	39°38'8.4697"N	80°33'36.2362"W	5.40	229.835	3.05	3.00	15.70
2815.00	4.580	262.190	2814.86	1.78	-3.87	-6.83	1701450.68	415402.78	39°38'8.4655"N	80°33'36.2707"W	7.85	240.451	4.35	4.35	2.56
2858.00	6.060	264.880	2857.68	4.15	-4.31	-10.79	1701446.72	415402.34	39°38'8.4607"N	80°33'36.3213"W	11.62	248.240	3.49	3.44	6.26
2902.00	7.090	267.130	2901.39	7.31	-4.65	-15.82	1701441.69	415402.00	39°38'8.4567"N	80°33'36.3854"W	16.49	253.614	2.41	2.34	5.11
2945.00	7.590	265.720	2944.03	10.77	-5.00	-21.30	1701436.21	415401.65	39°38'8.4527"N	80°33'36.4555"W	21.88	256.800	1.24	1.16	-3.28
2988.00	8.260	264.210	2986.62	14.39	-5.52	-27.20	1701430.31	415401.13	39°38'8.4468"N	80°33'36.5309"W	27.76	258.531	1.63	1.56	-3.51
3031.00	9.070	260.990	3029.13	18.12	-6.36	-33.62	1701423.89	415400.29	39°38'8.4378"N	80°33'36.6128"W	34.22	259.287	2.20	1.88	-7.49
3074.00	10.250	257.190	3071.52	21.91	-7.74	-40.70	1701416.81	415398.91	39°38'8.4233"N	80°33'36.7030"W	41.43	259.232	3.12	2.74	-8.84
3118.00	11.290	254.880	3114.75	25.85	-9.73	-48.68	1701408.83	415396.92	39°38'8.4027"N	80°33'36.8047"W	49.64	258.694	2.56	2.36	-5.25
3161.00	12.110	250.830	3156.85	29.60	-12.31	-57.00	1701400.51	415394.34	39°38'8.3762"N	80°33'36.9107"W	58.32	257.813	2.70	1.91	-9.42
3204.00	13.610	248.810	3198.77	33.25	-15.62	-65.98	1701391.53	415391.03	39°38'8.3425"N	80°33'37.0249"W	67.80	256.680	3.64	3.49	-4.70
3247.00	15.170	247.200	3240.42	37.02	-19.63	-75.89	1701381.63	415387.02	39°38'8.3017"N	80°33'37.1509"W	78.38	255.496	3.74	3.63	-3.74
3291.00	16.040	244.510	3282.80	40.78	-24.48	-86.68	1701370.84	415382.17	39°38'8.2525"N	80°33'37.2881"W	90.07	254.231	2.57	1.98	-6.11
3334.00	16.620	242.540	3324.07	44.15	-29.87	-97.50	1701360.02	415376.78	39°38'8.1980"N	80°33'37.4256"W	101.97	252.967	1.86	1.35	-4.58
3377.00	17.250	240.140	3365.20	47.18	-35.88	-108.49	1701349.03	415370.77	39°38'8.1373"N	80°33'37.5651"W	114.26	251.699	2.19	1.47	-5.58
3420.00	18.270	238.660	3406.15	49.93	-42.56	-119.77	1701337.75	415364.09	39°38'8.0700"N	80°33'37.7083"W	127.11	250.437	2.59	2.37	-3.44
3463.00	19.460	239.980	3446.84	52.82	-49.65	-131.73	1701325.79	415357.00	39°38'7.9985"N	80°33'37.8601"W	140.78	249.348	2.94	2.77	3.07
3506.00	20.040	239.580	3487.31	55.96	-56.96	-144.29	1701313.23	415349.69	39°38'7.9248"N	80°33'38.0195"W	155.12	248.456	1.38	1.35	-0.93
3550.00	20.850	239.090	3528.54	59.16	-64.80	-157.51	1701300.01	415341.85	39°38'7.8458"N	80°33'38.1873"W	170.32	247.636	1.88	1.84	-1.11
3593.00	21.740	239.600	3568.60	62.42	-72.76	-170.94	1701286.58	415333.89	39°38'7.7655"N	80°33'38.3578"W	185.78	246.942	2.11	2.07	1.19
3636.00	23.060	237.800	3608.36	65.65	-81.28	-184.94	1701272.59	415325.37	39°38'7.6797"N	80°33'38.5353"W	202.01	246.274	3.46	3.07	-4.19
3679.00	24.100	236.940	3647.77	68.65	-90.56	-199.42	1701258.10	415316.10	39°38'7.5863"N	80°33'38.7191"W	219.02	245.577	2.55	2.42	-2.00
3723.00	25.240	236.420	3687.75	71.64	-100.65	-214.76	1701242.76	415306.01	39°38'7.4848"N	80°33'38.9137"W	237.18	244.890	2.64	2.59	-1.18
3809.00	28.010	234.730	3764.63	77.15	-122.46	-246.53	1701210.99	415284.20	39°38'7.2656"N	80°33'39.3164"W	275.27	243.586	3.34	3.22	-1.97
3895.00	30.860	234.140	3839.52	82.38	-147.04	-280.90	1701176.62	415259.62	39°38'7.0186"N	80°33'39.7520"W	317.06	242.370	3.33	3.31	-0.69
3982.00	34.450	233.780	3912.75	87.81	-174.66	-318.85	1701138.68	415232.00	39°38'6.7413"N	80°33'40.2328"W	363.56	241.287	4.13	4.13	-0.41
4068.00	39.200	232.700	3981.58	93.11	-205.52	-360.12	1701097.41	415201.14	39°38'6.4315"N	80°33'40.7555"W	414.64	240.286	5.57	5.52	-1.26
4155.00	42.070	231.190	4047.59	97.66	-240.46	-404.71	1701052.82	415166.21	39°38'6.0810"N	80°33'41.3202"W	470.76	239.283	3.49	3.30	-1.74
4241.00	43.150	229.720	4110.89	100.85	-277.53	-449.60	1701007.94	415129.14	39°38'5.7094"N	80°33'41.8883"W	528.36	238.314	1.71	1.26	-1.71

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ID [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]
4328.00	42.860	231.290	4174.51	104.15	-315.27	-495.39	1700962.15	415091.40	39°38'5.3311"N	80°33'42.4678"W	587.20	237.527	1.28	-0.33	1.80
4414.00	42.490	233.600	4237.74	109.37	-350.80	-541.59	1700915.95	415055.87	39°38'4.9746"N	80°33'43.0529"W	645.28	237.068	1.87	-0.43	2.69
4500.00	41.210	233.940	4301.80	115.82	-384.71	-587.87	1700869.67	415021.96	39°38'4.6340"N	80°33'43.6393"W	702.57	236.799	1.51	-1.49	0.40
4586.00	40.190	232.610	4367.00	121.65	-418.24	-632.82	1700824.73	414988.43	39°38'4.2974"N	80°33'44.2087"W	758.55	236.539	1.56	-1.19	-1.55
4673.00	39.480	229.700	4433.81	125.40	-453.18	-676.22	1700781.33	414953.50	39°38'3.9471"N	80°33'44.7581"W	814.03	236.172	2.29	-0.82	-3.34
4759.00	39.110	229.370	4500.37	127.52	-488.53	-717.66	1700739.89	414918.15	39°38'3.5929"N	80°33'45.2824"W	868.16	235.756	0.49	-0.43	-0.38
4846.00	38.450	229.270	4568.19	129.43	-524.04	-758.99	1700698.57	414882.64	39°38'3.2371"N	80°33'45.8052"W	922.32	235.377	0.76	-0.76	-0.11
4932.00	38.680	229.920	4635.43	131.57	-558.79	-799.81	1700657.75	414847.89	39°38'2.8889"N	80°33'46.3217"W	975.68	235.060	0.54	0.27	0.76
5010.00	38.600	230.810	4696.36	134.16	-589.86	-837.32	1700620.24	414816.82	39°38'2.5775"N	80°33'46.7963"W	1024.23	234.837	0.72	-0.10	1.14
5096.00	38.520	231.650	4763.61	137.82	-623.43	-879.11	1700578.45	414783.26	39°38'2.2409"N	80°33'47.3254"W	1077.73	234.657	0.62	-0.09	0.98
5183.00	37.760	231.930	4832.03	142.02	-656.66	-921.33	1700536.24	414750.03	39°38'1.9075"N	80°33'47.8599"W	1131.40	234.521	0.90	-0.87	0.32
5269.00	38.550	232.010	4899.66	146.34	-689.40	-963.18	1700494.39	414717.30	39°38'1.5791"N	80°33'48.3898"W	1184.48	234.407	0.92	0.92	0.09
5356.00	39.230	231.400	4967.38	150.52	-723.25	-1006.05	1700451.53	414683.45	39°38'1.2396"N	80°33'48.9326"W	1239.04	234.288	0.90	0.78	-0.70
5442.00	39.620	231.010	5033.81	154.23	-757.47	-1048.61	1700408.96	414649.23	39°38'0.8964"N	80°33'49.4714"W	1293.58	234.158	0.54	0.45	-0.45
5528.00	39.040	230.350	5100.33	157.44	-792.00	-1090.78	1700366.80	414614.70	39°38'0.5502"N	80°33'50.0051"W	1347.99	234.017	0.83	-0.67	-0.77
5615.00	38.700	230.570	5168.06	160.44	-826.76	-1132.88	1700324.70	414579.94	39°38'0.2018"N	80°33'50.5379"W	1402.48	233.879	0.42	-0.39	0.25
5701.00	38.570	231.200	5235.24	163.78	-860.63	-1174.54	1700283.04	414546.07	39°37'59.8622"N	80°33'51.0652"W	1456.11	233.768	0.48	-0.15	0.73
5788.00	37.950	230.200	5303.56	166.97	-894.75	-1216.23	1700241.35	414511.95	39°37'59.5201"N	80°33'51.5929"W	1509.90	233.659	1.01	-0.71	-1.15
5874.00	37.490	229.440	5371.58	169.28	-928.70	-1256.43	1700201.15	414478.01	39°37'59.1799"N	80°33'52.1015"W	1562.40	233.530	0.76	-0.53	-0.88
5961.00	37.400	229.650	5440.66	171.34	-963.02	-1296.68	1700160.91	414443.69	39°37'58.8360"N	80°33'52.6107"W	1615.17	233.399	0.18	-0.10	0.24
6047.00	38.660	231.500	5508.40	174.37	-996.65	-1337.61	1700119.98	414410.06	39°37'58.4989"N	80°33'53.1287"W	1668.09	233.310	1.98	1.47	2.15
6134.00	38.960	231.280	5576.19	178.25	-1030.68	-1380.22	1700077.38	414376.03	39°37'58.1576"N	80°33'53.6681"W	1722.59	233.249	0.38	0.34	-0.25
6220.00	39.100	232.410	5643.00	182.53	-1064.13	-1422.80	1700034.79	414342.58	39°37'57.8220"N	80°33'54.2072"W	1776.72	233.207	0.84	0.16	1.31
6306.00	38.930	233.670	5709.82	187.94	-1096.68	-1466.06	1699991.54	414310.03	39°37'57.4952"N	80°33'54.7551"W	1830.86	233.202	0.94	-0.20	1.47
6393.00	38.260	232.550	5777.82	193.42	-1129.26	-1509.47	1699948.14	414277.46	39°37'57.1683"N	80°33'55.3049"W	1885.13	233.199	1.11	-0.77	-1.29
6479.00	38.240	231.150	5845.35	197.64	-1162.15	-1551.33	1699906.27	414244.58	39°37'56.8383"N	80°33'55.8350"W	1938.36	233.162	1.01	-0.02	-1.63
6566.00	38.310	231.820	5913.65	201.56	-1195.70	-1593.50	1699864.11	414211.02	39°37'56.5018"N	80°33'56.3688"W	1992.22	233.117	0.48	0.08	0.77
6652.00	39.070	232.310	5980.78	206.02	-1228.75	-1635.90	1699821.71	414177.97	39°37'56.1702"N	80°33'56.9057"W	2045.97	233.089	0.95	0.88	0.57
6739.00	39.320	233.060	6048.21	211.17	-1262.08	-1679.63	1699777.98	414144.65	39°37'55.8357"N	80°33'57.4595"W	2100.95	233.079	0.62	0.29	0.86
6824.00	39.030	232.790	6114.10	216.43	-1294.45	-1722.47	1699735.15	414112.28	39°37'55.5108"N	80°33'58.0021"W	2154.64	233.075	0.40	-0.34	-0.32

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Denver 1H AWP Proj: 23015'

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Field	Wetzel		API/Legal	
Facility	Denver Pad		Wellbore	Denver 1H AWB
Slot	Slot 01			

WELLPATH DATA (260 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]
6911.00	37.760	231.840	6182.28	221.15	-1327.47	-1765.23	1699692.39	414079.26	39°37'55.1794"N	80°33'58.5436"W	2208.67	233.056	1.61	-1.46	-1.09
6997.00	36.290	231.480	6250.94	225.08	-1359.60	-1805.85	1699651.77	414047.14	39°37'54.8572"N	80°33'59.0578"W	2260.44	233.025	1.73	-1.71	-0.42
7084.00	35.370	230.870	6321.48	228.51	-1391.52	-1845.53	1699612.10	414015.21	39°37'54.5371"N	80°33'59.5600"W	2311.34	232.984	1.13	-1.06	-0.70
7161.00	36.230	232.780	6383.93	232.06	-1419.35	-1880.94	1699576.69	413987.39	39°37'54.2579"N	80°34'0.0083"W	2356.37	232.962	1.83	1.12	2.48
7248.00	39.130	235.780	6452.78	238.56	-1450.35	-1924.12	1699533.51	413956.39	39°37'53.9465"N	80°34'0.5556"W	2409.51	232.992	3.94	3.33	3.45
7334.00	40.960	234.030	6518.62	245.86	-1482.17	-1969.38	1699488.25	413924.57	39°37'53.6267"N	80°34'1.1291"W	2464.81	233.035	2.50	2.13	-2.03
7421.00	41.920	231.440	6583.84	251.29	-1517.04	-2015.19	1699442.45	413889.70	39°37'53.2767"N	80°34'1.7092"W	2522.38	233.027	2.26	1.10	-2.98
7507.00	42.620	229.670	6647.48	254.56	-1553.79	-2059.85	1699397.79	413852.95	39°37'52.9083"N	80°34'2.2745"W	2580.16	232.972	1.61	0.81	-2.06
7594.00	42.880	229.330	6711.37	256.81	-1592.14	-2104.76	1699352.88	413814.60	39°37'52.5240"N	80°34'2.8425"W	2639.11	232.894	0.40	0.30	-0.39
7680.00	42.750	229.320	6774.46	258.87	-1630.24	-2149.08	1699308.56	413776.51	39°37'52.1423"N	80°34'3.4033"W	2697.45	232.817	0.15	-0.15	-0.01
7766.00	42.680	227.270	6837.65	259.87	-1669.05	-2192.63	1699265.01	413737.71	39°37'51.7537"N	80°34'3.9539"W	2755.61	232.721	1.62	-0.08	-2.38
7822.00	43.470	223.360	6878.56	258.53	-1695.94	-2219.81	1699237.84	413710.82	39°37'51.4847"N	80°34'4.2971"W	2793.52	232.620	4.97	1.41	-6.98
7916.00	40.760	235.760	6948.40	260.82	-1736.79	-2267.47	1699190.18	413669.96	39°37'51.0754"N	80°34'4.9000"W	2856.20	232.549	9.29	-2.88	13.19
8011.00	40.820	253.540	7020.58	279.16	-1763.13	-2323.07	1699134.58	413643.63	39°37'50.8086"N	80°34'5.6066"W	2916.38	232.803	12.20	0.06	18.72
8106.00	40.770	268.800	7092.68	313.52	-1772.60	-2384.02	1699073.64	413634.16	39°37'50.7078"N	80°34'6.3840"W	2970.80	233.368	10.48	-0.05	16.06
8201.00	42.800	283.250	7163.68	360.92	-1765.84	-2446.60	1699011.06	413640.92	39°37'50.7673"N	80°34'7.1848"W	3017.28	234.180	10.34	2.14	15.21
8296.00	48.750	293.390	7230.00	420.44	-1744.21	-2510.93	1698946.73	413662.54	39°37'50.9734"N	80°34'8.0103"W	3057.30	235.214	9.87	6.26	10.67
8391.00	55.440	300.590	7288.37	490.68	-1710.06	-2577.51	1698880.15	413696.69	39°37'51.3031"N	80°34'8.8664"W	3093.20	236.438	9.23	7.04	7.58
8487.00	58.060	307.360	7341.05	568.74	-1665.18	-2643.98	1698813.69	413741.57	39°37'51.7388"N	80°34'9.7227"W	3124.66	237.797	6.50	2.73	7.05
8582.00	64.790	313.880	7386.50	651.50	-1610.83	-2707.12	1698750.55	413795.92	39°37'52.2685"N	80°34'10.5379"W	3150.12	239.246	9.30	7.08	6.86
8678.00	72.270	319.480	7421.64	740.73	-1545.83	-2768.26	1698689.42	413860.91	39°37'52.9036"N	80°34'11.3291"W	3170.63	240.820	9.49	7.79	5.83
8773.00	77.810	325.400	7446.17	832.05	-1473.11	-2824.11	1698633.57	413933.64	39°37'53.6158"N	80°34'12.0539"W	3185.22	242.453	8.38	5.83	6.23
8867.00	85.810	331.070	7459.56	923.29	-1394.07	-2872.99	1698584.70	414012.66	39°37'54.3911"N	80°34'12.6906"W	3193.35	244.116	10.39	8.51	6.03
8962.00	87.960	331.160	7464.72	1015.40	-1311.02	-2918.81	1698538.88	414095.71	39°37'55.2064"N	80°34'13.2889"W	3199.72	245.812	2.27	2.26	0.09
9057.00	90.030	329.300	7466.39	1107.97	-1228.58	-2965.97	1698491.72	414178.15	39°37'56.0156"N	80°34'13.9041"W	3210.35	247.499	2.93	2.18	-1.96
9152.00	90.300	329.000	7466.12	1200.95	-1147.02	-3014.68	1698443.01	414259.70	39°37'56.8159"N	80°34'14.5391"W	3225.52	249.169	0.42	0.28	-0.32
9247.00	90.150	327.680	7465.74	1294.19	-1066.16	-3064.54	1698393.15	414340.55	39°37'57.6091"N	80°34'15.1887"W	3244.71	250.817	1.40	-0.16	-1.39
9342.00	90.180	329.190	7465.47	1387.41	-985.22	-3114.27	1698343.43	414421.49	39°37'58.4031"N	80°34'15.8365"W	3266.40	252.445	1.59	0.03	1.59
9436.00	89.410	328.770	7465.81	1479.46	-904.66	-3162.71	1698294.99	414502.04	39°37'59.1935"N	80°34'16.4679"W	3289.55	254.037	0.93	-0.82	-0.45
9532.00	89.320	328.670	7466.87	1573.56	-822.62	-3212.56	1698245.15	414584.08	39°37'59.9984"N	80°34'17.1174"W	3316.21	255.637	0.14	-0.09	-0.10

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Field	Wetzel	API/Legal	
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Slot	Slot 01		

WELLPATH DATA (260 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]
9627.00	89.810	329.080	7467.59	1666.63	-741.30	-3261.66	1698196.05	414665.39	39°38'0.7963"N	80°34'17.7574"W	3344.84	257.195	0.67	0.52	0.43
9722.00	90.340	328.860	7467.47	1759.67	-659.90	-3310.63	1698147.08	414746.79	39°38'1.5950"N	80°34'18.3956"W	3375.76	258.727	0.60	0.56	-0.23
9817.00	90.150	328.880	7467.06	1852.74	-578.58	-3359.74	1698097.97	414828.11	39°38'2.3928"N	80°34'19.0357"W	3409.20	260.229	0.20	-0.20	0.02
9912.00	90.310	329.280	7466.68	1945.74	-497.08	-3408.56	1698049.16	414909.60	39°38'3.1924"N	80°34'19.6720"W	3444.61	261.703	0.45	0.17	0.42
10007.00	90.460	329.270	7466.04	2038.67	-415.42	-3457.09	1698000.63	414991.26	39°38'3.9937"N	80°34'20.3048"W	3481.96	263.148	0.16	0.16	-0.01
10103.00	90.150	328.170	7465.53	2132.77	-333.37	-3506.94	1697950.79	415073.30	39°38'4.7986"N	80°34'20.9543"W	3522.75	264.570	1.19	-0.32	-1.15
10198.00	90.220	327.950	7465.22	2226.11	-252.76	-3557.20	1697900.53	415153.91	39°38'5.5894"N	80°34'21.6090"W	3566.16	265.936	0.24	0.07	-0.23
10293.00	90.090	329.340	7464.97	2319.25	-171.63	-3606.63	1697851.10	415235.03	39°38'6.3853"N	80°34'22.2531"W	3610.71	267.275	1.47	-0.14	1.46
10388.00	90.180	330.640	7464.74	2411.93	-89.37	-3654.14	1697803.59	415317.28	39°38'7.1926"N	80°34'22.8729"W	3655.23	268.599	1.37	0.09	1.37
10484.00	89.880	330.110	7464.69	2505.44	-5.92	-3701.59	1697756.14	415400.73	39°38'8.0117"N	80°34'23.4921"W	3701.60	269.908	0.63	-0.31	-0.55
10573.00	89.780	330.500	7464.97	2597.04	75.73	-3748.16	1697709.58	415482.38	39°38'8.8131"N	80°34'24.0998"W	3748.92	271.158	0.43	-0.11	0.41
10673.00	91.910	330.740	7463.57	2689.47	158.50	-3794.76	1697662.98	415565.14	39°38'9.6256"N	80°34'24.7080"W	3798.07	272.392	2.26	2.24	0.25
10768.00	89.110	330.140	7462.72	2781.97	241.12	-3841.62	1697616.13	415647.76	39°38'10.4366"N	80°34'25.3195"W	3849.18	273.592	3.01	-2.95	-0.63
10863.00	89.380	330.170	7463.98	2874.59	323.52	-3888.89	1697568.86	415730.15	39°38'11.2452"N	80°34'25.9363"W	3902.33	274.755	0.29	0.28	0.03
10959.00	90.950	331.210	7463.70	2967.98	407.22	-3935.89	1697521.87	415813.85	39°38'12.0669"N	80°34'26.5497"W	3956.90	275.907	1.96	1.64	1.08
11054.00	89.290	329.840	7463.50	3060.46	489.92	-3982.63	1697475.13	415896.54	39°38'12.8786"N	80°34'27.1597"W	4012.65	277.013	2.27	-1.75	-1.44
11149.00	90.150	331.630	7463.97	3152.85	572.79	-4029.06	1697428.69	415979.41	39°38'13.6921"N	80°34'27.7659"W	4069.58	278.091	2.09	0.91	1.88
11244.00	90.060	330.270	7463.79	3245.17	655.84	-4075.19	1697382.57	416062.45	39°38'14.5074"N	80°34'28.3682"W	4127.63	279.142	1.43	-0.09	-1.43
11340.00	89.840	329.900	7463.87	3338.80	739.05	-4123.07	1697334.69	416145.65	39°38'15.3240"N	80°34'28.9928"W	4188.78	280.162	0.45	-0.23	-0.39
11435.00	89.600	329.780	7464.34	3431.53	821.19	-4170.80	1697286.97	416227.79	39°38'16.1301"N	80°34'29.6154"W	4250.87	281.138	0.28	-0.25	-0.13
11530.00	89.940	330.620	7464.72	3524.14	903.62	-4218.01	1697239.76	416310.22	39°38'16.9392"N	80°34'30.2314"W	4313.72	282.092	0.95	0.36	0.88
11626.00	88.610	330.060	7465.94	3617.65	987.04	-4265.51	1697192.26	416393.63	39°38'17.7579"N	80°34'30.8513"W	4378.22	283.029	1.50	-1.39	-0.58
11720.00	88.770	330.440	7468.08	3709.24	1068.63	-4312.14	1697145.63	416475.21	39°38'18.5587"N	80°34'31.4598"W	4442.58	283.919	0.44	0.17	0.40
11815.00	88.740	329.960	7470.15	3801.83	1151.04	-4359.34	1697098.43	416557.62	39°38'19.3676"N	80°34'32.0757"W	4508.74	284.791	0.51	-0.03	-0.51
11910.00	89.720	330.550	7471.42	3894.40	1233.52	-4406.47	1697051.31	416640.09	39°38'20.1770"N	80°34'32.6907"W	4575.87	285.639	1.20	1.03	0.62
12006.00	89.720	330.070	7471.89	3987.94	1316.91	-4454.02	1697003.76	416723.48	39°38'20.9956"N	80°34'33.3112"W	4644.63	286.471	0.50	0.00	-0.50
12101.00	89.810	329.850	7472.28	4080.63	1399.15	-4501.58	1696956.21	416805.72	39°38'21.8026"N	80°34'33.9316"W	4714.00	287.266	0.25	0.09	-0.23
12196.00	89.910	330.580	7472.52	4173.23	1481.60	-4548.77	1696909.02	416888.16	39°38'22.6119"N	80°34'34.5474"W	4783.98	288.041	0.78	0.11	0.77
12291.00	89.940	330.420	7472.64	4265.73	1564.29	-4595.55	1696862.24	416970.84	39°38'23.4234"N	80°34'35.1580"W	4854.49	288.798	0.17	0.03	-0.17
12386.00	89.970	330.270	7472.71	4358.28	1646.84	-4642.55	1696815.24	417053.39	39°38'24.2337"N	80°34'35.7714"W	4925.99	289.531	0.16	0.03	-0.16

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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]
12482.00	89.630	330.310	7473.05	4451.83	1730.22	-4690.13	1696767.67	417136.77	39°38'25.0521"N	80°34'36.3923"W	4999.10	290.249	0.36	-0.35	0.04
12577.00	89.720	330.440	7473.59	4544.36	1812.80	-4737.09	1696720.71	417219.34	39°38'25.8626"N	80°34'37.0052"W	5072.11	290.941	0.17	0.09	0.14
12672.00	89.850	330.530	7473.95	4636.86	1895.47	-4783.89	1696673.91	417302.01	39°38'26.6741"N	80°34'37.6160"W	5145.72	291.614	0.17	0.14	0.09
12767.00	89.910	330.350	7474.14	4729.38	1978.11	-4830.76	1696627.05	417384.64	39°38'27.4851"N	80°34'38.2277"W	5220.07	292.268	0.20	0.06	-0.19
12862.00	89.510	329.900	7474.63	4822.01	2060.48	-4878.08	1696579.73	417467.01	39°38'28.2936"N	80°34'38.8452"W	5295.40	292.899	0.63	-0.42	-0.47
12957.00	89.780	329.300	7475.21	4914.83	2142.42	-4926.15	1696531.66	417548.94	39°38'29.0976"N	80°34'39.4722"W	5371.86	293.505	0.69	0.28	-0.63
13053.00	89.940	329.880	7475.45	5008.64	2225.21	-4974.74	1696483.07	417631.72	39°38'29.9100"N	80°34'40.1060"W	5449.74	294.099	0.63	0.17	0.60
13148.00	89.880	329.420	7475.60	5101.44	2307.19	-5022.74	1696435.07	417713.70	39°38'30.7145"N	80°34'40.7321"W	5527.30	294.672	0.49	-0.06	-0.48
13242.00	89.810	329.420	7475.85	5193.35	2388.12	-5070.57	1696387.25	417794.62	39°38'31.5086"N	80°34'41.3558"W	5604.80	295.219	0.07	-0.07	0.00
13337.00	89.780	329.420	7476.19	5286.23	2469.90	-5118.90	1696338.93	417876.40	39°38'32.3111"N	80°34'41.9861"W	5683.62	295.758	0.03	-0.03	0.00
13432.00	89.940	329.340	7476.42	5379.13	2551.66	-5167.28	1696290.54	417958.15	39°38'33.1133"N	80°34'42.6171"W	5762.97	296.281	0.19	0.17	-0.08
13527.00	89.910	329.430	7476.55	5472.03	2633.42	-5215.66	1696242.17	418039.90	39°38'33.9155"N	80°34'43.2480"W	5842.78	296.789	0.10	-0.03	0.09
13622.00	89.940	329.380	7476.67	5564.92	2715.19	-5264.02	1696193.82	418121.67	39°38'34.7179"N	80°34'43.8786"W	5923.02	297.285	0.06	0.03	-0.05
13716.00	89.480	328.890	7477.15	5656.93	2795.88	-5312.24	1696145.60	418202.35	39°38'35.5095"N	80°34'44.5074"W	6003.07	297.758	0.71	-0.49	-0.52
13811.00	89.880	329.540	7477.68	5749.88	2877.49	-5360.86	1696096.98	418283.96	39°38'36.3103"N	80°34'45.1414"W	6084.30	298.225	0.80	0.42	0.68
13906.00	89.780	328.720	7477.96	5842.86	2959.03	-5409.60	1696048.24	418365.50	39°38'37.1103"N	80°34'45.7770"W	6166.01	298.678	0.87	-0.11	-0.86
14001.00	90.120	329.120	7478.04	5935.92	3040.39	-5458.64	1695999.20	418446.85	39°38'37.9085"N	80°34'46.4164"W	6248.26	299.117	0.55	0.36	0.42
14096.00	89.660	328.890	7478.23	6028.95	3121.83	-5507.57	1695950.28	418528.28	39°38'38.7075"N	80°34'47.0542"W	6330.80	299.546	0.54	-0.48	-0.24
14191.00	89.290	328.430	7479.10	6122.09	3202.96	-5556.97	1695900.88	418609.41	39°38'39.5035"N	80°34'47.6982"W	6413.96	299.959	0.62	-0.39	-0.48
14286.00	89.690	329.720	7479.94	6215.08	3284.45	-5605.79	1695852.06	418690.90	39°38'40.3030"N	80°34'48.3347"W	6497.12	300.366	1.42	0.42	1.36
14381.00	89.690	329.210	7480.46	6307.95	3366.27	-5654.06	1695803.80	418772.72	39°38'41.1058"N	80°34'48.9643"W	6580.29	300.768	0.54	0.00	-0.54
14476.00	89.630	329.740	7481.02	6400.82	3448.11	-5702.31	1695755.55	418854.55	39°38'41.9088"N	80°34'49.5936"W	6663.77	301.161	0.56	-0.06	0.56
14571.00	90.580	329.490	7480.85	6493.63	3530.06	-5750.36	1695707.50	418936.49	39°38'42.7130"N	80°34'50.2204"W	6747.44	301.545	1.03	1.00	-0.26
14666.00	89.170	329.080	7481.05	6586.56	3611.73	-5798.88	1695658.98	419018.16	39°38'43.5143"N	80°34'50.8532"W	6831.66	301.916	1.55	-1.48	-0.43
14761.00	89.780	329.780	7481.92	6679.44	3693.52	-5847.20	1695610.67	419099.94	39°38'44.3168"N	80°34'51.4834"W	6916.05	302.280	0.98	0.64	0.74
14856.00	89.170	327.910	7482.79	6772.51	3774.81	-5896.34	1695561.53	419181.23	39°38'45.1143"N	80°34'52.1240"W	7001.14	302.627	2.07	-0.64	-1.97
14951.00	89.690	329.290	7483.74	6865.67	3855.89	-5945.83	1695512.04	419262.30	39°38'45.9097"N	80°34'52.7692"W	7086.66	302.964	1.55	0.55	1.45
15046.00	89.470	329.230	7484.44	6958.61	3937.54	-5994.39	1695463.49	419343.95	39°38'46.7109"N	80°34'53.4024"W	7171.95	303.300	0.24	-0.23	-0.06
15142.00	89.840	329.290	7485.01	7052.52	4020.05	-6043.46	1695414.42	419426.45	39°38'47.5204"N	80°34'54.0423"W	7258.39	303.631	0.39	0.39	0.06
15237.00	89.870	329.250	7485.25	7145.46	4101.71	-6092.00	1695365.88	419508.11	39°38'48.3216"N	80°34'54.6754"W	7344.15	303.952	0.05	0.03	-0.04

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Denver 1H AWP Proj: 23015'

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Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

WELLPATH DATA (260 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]
15332.00	89.750	328.370	7485.57	7238.55	4182.98	-6141.20	1695316.69	419589.37	39°38'49.1189"N	80°34'55.3168"W	7430.45	304.260	0.93	-0.13	-0.93
15522.00	90.180	329.330	7485.69	7424.71	4345.58	-6239.48	1695218.41	419751.96	39°38'50.7141"N	80°34'56.5982"W	7603.63	304.856	0.55	0.23	0.51
15617.00	90.280	329.440	7485.30	7517.61	4427.34	-6287.86	1695170.03	419833.72	39°38'51.5163"N	80°34'57.2292"W	7690.16	305.150	0.16	0.11	0.12
15712.00	89.810	329.300	7485.23	7610.51	4509.08	-6336.26	1695121.63	419915.46	39°38'52.3184"N	80°34'57.8605"W	7776.89	305.437	0.52	-0.49	-0.15
15808.00	89.940	329.460	7485.44	7704.39	4591.70	-6385.16	1695072.74	419998.07	39°38'53.1290"N	80°34'58.4983"W	7864.73	305.721	0.21	0.14	0.17
15903.00	89.720	329.430	7485.72	7797.26	4673.50	-6433.45	1695024.45	420079.87	39°38'53.9317"N	80°34'59.1283"W	7951.79	305.996	0.23	-0.23	-0.03
15998.00	89.810	330.430	7486.11	7889.97	4755.72	-6481.05	1694929.84	420162.08	39°38'54.7384"N	80°34'59.7494"W	8038.71	306.271	1.06	0.09	1.05
16093.00	89.750	330.240	7486.47	7982.52	4838.27	-6528.07	1694929.84	420244.62	39°38'55.5486"N	80°35'0.3632"W	8125.55	306.544	0.21	-0.06	-0.20
16188.00	89.840	330.310	7486.81	8075.10	4920.76	-6575.18	1694882.74	420327.11	39°38'56.3583"N	80°35'0.9780"W	8212.60	306.811	0.12	0.09	0.07
16283.00	89.810	330.300	7487.11	8167.67	5003.29	-6622.24	1694835.68	420409.63	39°38'57.1682"N	80°35'1.5923"W	8299.81	307.072	0.03	-0.03	-0.01
16377.00	89.910	330.430	7487.33	8259.24	5084.99	-6668.72	1694789.20	420491.33	39°38'57.9701"N	80°35'2.1991"W	8386.23	307.326	0.17	0.11	0.14
16472.00	89.780	329.810	7487.59	8351.87	5167.36	-6716.04	1694741.88	420573.70	39°38'58.7785"N	80°35'2.8168"W	8473.89	307.575	0.67	-0.14	-0.65
16567.00	89.750	329.630	7487.98	8444.65	5249.40	-6763.95	1694693.98	420655.73	39°38'59.5835"N	80°35'3.4418"W	8561.96	307.815	0.19	-0.03	-0.19
16662.00	89.720	329.400	7488.42	8537.50	5331.27	-6812.14	1694645.79	420737.59	39°39'0.3868"N	80°35'4.0705"W	8650.30	308.047	0.24	-0.03	-0.24
16757.00	90.610	330.500	7488.15	8630.20	5413.50	-6859.71	1694598.22	420819.81	39°39'1.1937"N	80°35'4.6913"W	8738.51	308.280	1.49	0.94	1.16
16851.00	90.030	330.450	7487.62	8721.72	5495.29	-6906.03	1694551.90	420901.60	39°39'1.9965"N	80°35'5.2961"W	8825.62	308.510	0.62	-0.62	-0.05
16946.00	90.090	329.930	7487.52	8814.33	5577.72	-6953.26	1694504.68	420984.03	39°39'2.8054"N	80°35'5.9125"W	8913.96	308.736	0.55	0.06	-0.55
17041.00	90.030	329.540	7487.42	8907.11	5659.77	-7001.14	1694456.80	421066.07	39°39'3.6106"N	80°35'6.5373"W	9002.72	308.952	0.42	-0.06	-0.41
17136.00	89.900	330.140	7487.48	8999.85	5741.91	-7048.87	1694409.07	421148.21	39°39'4.4166"N	80°35'7.1601"W	9091.54	309.166	0.65	-0.14	0.63
17231.00	90.090	330.320	7487.49	9092.44	5824.37	-7096.04	1694361.91	421230.66	39°39'5.2259"N	80°35'7.7758"W	9180.25	309.379	0.28	0.20	0.19
17325.00	90.090	330.390	7487.34	9184.01	5906.07	-7142.53	1694315.41	421312.35	39°39'6.0277"N	80°35'8.3828"W	9268.08	309.587	0.07	0.00	0.07
17420.00	90.000	330.300	7487.27	9276.57	5988.62	-7189.54	1694268.41	421394.91	39°39'6.8380"N	80°35'8.9965"W	9356.98	309.793	0.13	-0.09	-0.09
17516.00	89.380	329.260	7487.79	9370.30	6071.57	-7237.85	1694220.10	421477.85	39°39'7.6519"N	80°35'9.6270"W	9447.25	309.992	1.26	-0.65	-1.08
17611.00	90.030	329.980	7488.28	9463.11	6153.53	-7285.90	1694172.06	421559.80	39°39'8.4561"N	80°35'10.2538"W	9536.78	310.184	1.02	0.68	0.76
17705.00	90.090	330.590	7488.18	9554.71	6235.17	-7332.49	1694125.47	421641.43	39°39'9.2573"N	80°35'10.8621"W	9625.11	310.376	0.65	0.06	0.65
17800.00	89.780	328.880	7488.29	9647.48	6317.21	-7380.37	1694077.59	421723.48	39°39'10.0624"N	80°35'11.4868"W	9714.79	310.562	1.83	-0.33	-1.80
17895.00	89.870	330.250	7488.58	9740.32	6399.12	-7428.49	1694029.47	421805.38	39°39'10.8661"N	80°35'12.1147"W	9804.65	310.743	1.45	0.09	1.44
17990.00	90.090	330.580	7488.61	9832.84	6481.74	-7475.39	1693982.57	421887.99	39°39'11.6769"N	80°35'12.7271"W	9894.16	310.928	0.42	0.23	0.35
18085.00	89.900	329.940	7488.62	9925.42	6564.22	-7522.52	1693935.45	421970.47	39°39'12.4865"N	80°35'13.3423"W	9983.85	311.108	0.70	-0.20	-0.67
18179.00	89.810	330.470	7488.85	10017.05	6645.80	-7569.23	1693888.75	422052.04	39°39'13.2870"N	80°35'13.9520"W	10072.73	311.283	0.57	-0.10	0.56

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Denver 1H AWP Proj: 23015'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 1H
Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

WELLPATH DATA (260 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]
18274.00	90.030	330.350	7488.99	10109.58	6728.41	-7616.14	1693841.84	422134.64	39°39'14.0978"N	80°35'14.5645"W	10162.53	311.459	0.26	0.23	-0.13
18369.00	89.970	330.230	7488.99	10202.15	6810.92	-7663.22	1693794.76	422217.15	39°39'14.9076"N	80°35'15.1792"W	10252.49	311.630	0.14	-0.06	-0.13
18464.00	89.870	330.280	7489.12	10294.74	6893.40	-7710.35	1693747.63	422299.63	39°39'15.7170"N	80°35'15.7945"W	10342.56	311.798	0.12	-0.11	0.05
18559.00	89.780	330.420	7489.41	10387.29	6975.96	-7757.35	1693700.63	422382.18	39°39'16.5273"N	80°35'16.4081"W	10432.67	311.964	0.18	-0.09	0.15
18654.00	89.810	330.400	7489.75	10479.82	7058.57	-7804.26	1693653.73	422464.79	39°39'17.3381"N	80°35'17.0206"W	10522.83	312.128	0.04	0.03	-0.02
18749.00	89.750	330.260	7490.11	10572.37	7141.11	-7851.29	1693606.71	422547.33	39°39'18.1482"N	80°35'17.6345"W	10613.11	312.288	0.16	-0.06	-0.15
18844.00	89.780	330.610	7490.50	10664.89	7223.74	-7898.16	1693559.83	422629.95	39°39'18.9591"N	80°35'18.2466"W	10703.43	312.446	0.37	0.03	0.37
18939.00	90.240	330.610	7490.49	10757.34	7306.52	-7944.78	1693513.22	422712.72	39°39'19.7716"N	80°35'18.8554"W	10793.74	312.604	0.48	0.48	0.00
19034.00	90.210	330.720	7490.11	10849.77	7389.34	-7991.32	1693466.68	422795.53	39°39'20.5844"N	80°35'19.4633"W	10884.09	312.759	0.12	-0.03	0.12
19129.00	90.180	330.410	7489.79	10942.24	7472.07	-8038.01	1693419.99	422878.26	39°39'21.3965"N	80°35'20.0729"W	10974.58	312.910	0.33	-0.03	-0.33
19225.00	89.930	330.440	7489.70	11035.74	7555.56	-8085.39	1693372.62	422961.75	39°39'22.2159"N	80°35'20.6916"W	11066.17	313.060	0.26	-0.26	0.03
19320.00	89.810	330.190	7489.91	11128.30	7638.10	-8132.44	1693325.57	423044.28	39°39'23.0259"N	80°35'21.3059"W	11156.93	313.205	0.29	-0.13	-0.26
19510.00	89.290	330.100	7491.41	11313.55	7802.87	-8227.02	1693231.00	423209.05	39°39'24.6429"N	80°35'22.5406"W	11338.81	313.484	0.28	-0.27	-0.05
19606.00	89.320	329.900	7492.57	11407.19	7886.01	-8275.01	1693183.00	423292.17	39°39'25.4587"N	80°35'23.1671"W	11430.88	313.621	0.21	0.03	-0.21
19795.00	90.800	332.250	7492.37	11590.75	8051.41	-8366.42	1693091.61	423457.57	39°39'27.0824"N	80°35'24.3613"W	11611.30	313.901	1.47	0.78	1.24
19891.00	89.570	330.080	7492.06	11683.95	8135.50	-8412.71	1693045.31	423541.66	39°39'27.9078"N	80°35'24.9663"W	11703.00	314.040	2.60	-1.28	-2.26
19986.00	89.530	330.150	7492.81	11776.58	8217.87	-8460.05	1692997.98	423624.02	39°39'28.7161"N	80°35'25.5842"W	11794.31	314.168	0.08	-0.04	0.07
20081.00	89.630	330.820	7493.51	11869.08	8300.54	-8506.85	1692951.18	423706.68	39°39'29.5275"N	80°35'26.1953"W	11885.51	314.297	0.71	0.11	0.71
20175.00	89.380	330.080	7494.32	11960.61	8382.31	-8553.20	1692904.83	423788.44	39°39'30.3300"N	80°35'26.8007"W	11975.82	314.422	0.83	-0.27	-0.79
20271.00	89.350	330.710	7495.38	12054.11	8465.77	-8600.63	1692857.41	423871.90	39°39'31.1491"N	80°35'27.4200"W	12068.14	314.547	0.66	-0.03	0.66
20365.00	89.260	330.390	7496.52	12145.61	8547.62	-8646.84	1692811.20	423953.74	39°39'31.9524"N	80°35'28.0235"W	12158.52	314.669	0.35	-0.10	-0.34
20460.00	89.960	331.030	7497.17	12238.02	8630.47	-8693.31	1692764.73	424036.59	39°39'32.7656"N	80°35'28.6305"W	12249.84	314.792	1.00	0.74	0.67
20555.00	89.560	330.810	7497.57	12330.35	8713.49	-8739.49	1692718.56	424119.61	39°39'33.5805"N	80°35'29.2338"W	12341.13	314.915	0.48	-0.42	-0.23
20651.00	89.530	329.550	7498.33	12423.93	8796.78	-8787.22	1692670.83	424202.89	39°39'34.3978"N	80°35'29.8570"W	12433.77	315.031	1.31	-0.03	-1.31
20746.00	89.470	329.930	7499.16	12516.70	8878.83	-8835.09	1692622.96	424284.94	39°39'35.2029"N	80°35'30.4818"W	12525.67	315.141	0.40	-0.06	0.40
20841.00	89.350	329.560	7500.14	12609.47	8960.88	-8882.96	1692575.10	424366.99	39°39'36.0081"N	80°35'31.1065"W	12617.62	315.250	0.41	-0.13	-0.39
20936.00	90.270	330.170	7500.45	12702.20	9043.04	-8930.65	1692527.41	424449.14	39°39'36.8143"N	80°35'31.7290"W	12709.57	315.358	1.16	0.97	0.64
21031.00	89.690	330.720	7500.48	12794.71	9125.68	-8977.51	1692480.55	424531.77	39°39'37.6253"N	80°35'32.3410"W	12801.32	315.469	0.84	-0.61	0.58
21126.00	88.830	328.830	7501.71	12887.46	9207.76	-9025.32	1692432.74	424613.84	39°39'38.4306"N	80°35'32.9651"W	12893.38	315.573	2.19	-0.91	-1.99
21222.00	89.870	329.310	7502.80	12981.43	9290.10	-9074.66	1692383.40	424696.18	39°39'39.2384"N	80°35'33.6087"W	12986.74	315.672	1.19	1.08	0.50

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Slot	Slot 01		

WELLPATH DATA (260 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]
21316.00	90.400	329.190	7502.58	13073.40	9370.88	-9122.72	1692335.34	424776.96	39°39'40.0310"N	80°35'34.2357"W	13078.13	315.769	0.58	0.56	-0.13
21411.00	90.000	329.100	7502.25	13166.38	9452.43	-9171.45	1692286.62	424858.51	39°39'40.8311"N	80°35'34.8713"W	13170.57	315.864	0.43	-0.42	-0.09
21506.00	90.830	329.740	7501.56	13259.26	9534.22	-9219.78	1692238.30	424940.29	39°39'41.6335"N	80°35'35.5020"W	13262.94	315.961	1.10	0.87	0.67
21601.00	90.150	329.520	7500.75	13352.07	9616.18	-9267.80	1692190.27	425022.24	39°39'42.4377"N	80°35'36.1288"W	13355.26	316.057	0.75	-0.72	-0.23
21696.00	89.930	329.410	7500.68	13444.94	9698.00	-9316.07	1692142.01	425104.06	39°39'43.2405"N	80°35'36.7586"W	13447.69	316.151	0.26	-0.23	-0.12
21790.00	90.300	330.450	7500.49	13536.67	9779.35	-9363.17	1692094.92	425185.40	39°39'44.0387"N	80°35'37.3735"W	13539.00	316.245	1.17	0.39	1.11
21885.00	89.720	329.220	7500.48	13629.40	9861.49	-9410.90	1692047.18	425267.53	39°39'44.8447"N	80°35'37.9966"W	13631.36	316.339	1.43	-0.61	-1.29
21980.00	89.690	329.690	7500.96	13722.28	9943.30	-9459.18	1691998.91	425349.34	39°39'45.6474"N	80°35'38.6266"W	13723.90	316.429	0.50	-0.03	0.49
22076.00	89.530	329.470	7501.62	13816.08	10026.08	-9507.79	1691950.30	425432.12	39°39'46.4596"N	80°35'39.2610"W	13817.40	316.520	0.28	-0.17	-0.23
22171.00	90.270	329.430	7501.78	13908.96	10107.90	-9556.08	1691902.02	425513.93	39°39'47.2623"N	80°35'39.8911"W	13910.00	316.607	0.78	0.78	-0.04
22266.00	89.810	329.620	7501.72	14001.81	10189.77	-9604.26	1691853.84	425595.80	39°39'48.0656"N	80°35'40.5199"W	14002.61	316.694	0.52	-0.48	0.20
22361.00	89.470	329.470	7502.31	14094.65	10271.66	-9652.41	1691805.69	425677.68	39°39'48.8691"N	80°35'41.1483"W	14095.25	316.780	0.39	-0.36	-0.16
22456.00	89.320	329.080	7503.32	14187.58	10353.32	-9700.94	1691757.16	425759.34	39°39'49.6702"N	80°35'41.7816"W	14188.01	316.863	0.44	-0.16	-0.41
22551.00	89.470	329.230	7504.32	14280.55	10434.88	-9749.65	1691708.46	425840.89	39°39'50.4704"N	80°35'42.4170"W	14280.84	316.944	0.22	0.16	0.16
22646.00	90.370	328.990	7504.45	14373.54	10516.40	-9798.42	1691659.69	425922.41	39°39'51.2701"N	80°35'43.0533"W	14373.72	317.024	0.98	0.95	-0.25
22741.00	90.370	329.330	7503.84	14466.51	10597.97	-9847.12	1691610.99	426003.97	39°39'52.0703"N	80°35'43.6887"W	14466.61	317.103	0.36	0.00	0.36
22836.00	89.810	329.150	7503.69	14559.46	10679.60	-9895.71	1691562.41	426085.60	39°39'52.8712"N	80°35'44.3227"W	14559.50	317.182	0.62	-0.59	-0.19
22932.00	90.030	329.320	7503.82	14653.39	10762.09	-9944.81	1691513.31	426168.08	39°39'53.6805"N	80°35'44.9634"W	14653.39	317.260	0.29	0.23	0.18
22989.00	89.840	329.070	7503.89	14709.17	10811.05	-9974.00	1691484.12	426217.04	39°39'54.1608"N	80°35'45.3443"W	14709.17	317.306	0.55	-0.33	-0.44
23015.00‡	89.840	329.070	7503.96	14734.62	10833.35	-9987.37	1691470.75	426239.34	39°39'54.3796"N	80°35'45.5186"W	14734.62	317.327	0.00	0.00	0.00

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Actual Wellpath Report

Denver 1H AWP Proj: 23015'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 1H
Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

HOLE & CASING SECTIONS - Ref Wellbore: Denver 1H AWB Ref Wellpath: Denver 1H AWP Proj: 23015'

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	1218.00	1190.00	28.00	1218.00	0.00	0.00	0.26	-0.02
13.375in Casing Surface	28.00	1218.00	1190.00	28.00	1218.00	0.00	0.00	0.26	-0.02
12.25in Open Hole	1218.00	2627.00	1409.00	1218.00	2626.99	0.26	-0.02	-2.56	-1.83
9.625in Casing Intermediate	28.00	2627.00	2599.00	28.00	2626.99	0.00	0.00	-2.56	-1.83
8.75in Open Hole	2627.00	7840.00	5213.00	2626.99	6891.69	-2.56	-1.83	-1704.72	-2228.44
8.5in Open Hole	7840.00	23015.00	15175.00	6891.69	7503.96	-1704.72	-2228.44	10833.35	-9987.37
6in Casing Production	28.00	23015.00	22987.00	28.00	7503.96	0.00	0.00	10833.35	-9987.37

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Denver 1H AWP Proj: 23015'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT PRODUCTION COMPANY	Well	Denver 1H
Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Denver 1H BHL Rev-1	7458.00	10830.36	-9990.91	1691467.21	426236.35	39°39'54.3496"N	80°35'45.5635"W	point
Denver 1H LP Rev-1	7458.00	-1365.05	-2907.98	1698549.71	414041.68	39°37'54.6738"N	80°34'13.1422"W	point
Denver Hardline 1 (7.31.23)	8000.00	10729.92	-10163.86	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	11232.13	-9299.11	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	15533.75	-10641.00	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	13215.65	-8138.23	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	10921.05	-5649.12	1695808.73	426327.03	39°39'55.7656"N	80°34'50.0628"W	polygon
2D Polygon: dimensions not calculated								
Denver L&A 1 (7.31.23)	8000.00	3509.74	-712.16	1700745.39	418916.17	39°38'43.1062"N	80°33'45.8166"W	polygon
2D Polygon: dimensions not calculated								

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Actual Wellpath Report

Denver 1H AWP Proj: 23015'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 1H
Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

WELLPATH COMPOSITION - Ref Wellbore: Denver 1H AWB Ref Wellpath: Denver 1H AWP Proj: 23015'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	2568.00	Gyrodata 2015 - CT+WIR+DPIPE	01_Gyrodata Cont Gyro <12-1/4">(115'-2568')		
2568.00	7766.00	OWSG MWD rev2 + HRGM	02_SD1 MWD <8-3/4">(2568')(2642'-7766')	Denver 1H AWB	27/Jul/2023
7766.00	23015.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	03_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7766')(7822'-22989')	Denver 1H AWB	31/Jul/2023

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Denver 1H AWP Proj: 23015'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT PRODUCTION COMPANY	Well	Denver 1H
Field	Wetzel	API/Legal	
Facility	Denver Pad	Wellbore	Denver 1H AWB
Slot	Slot 01		

COMMENTS

Wellpath general comments

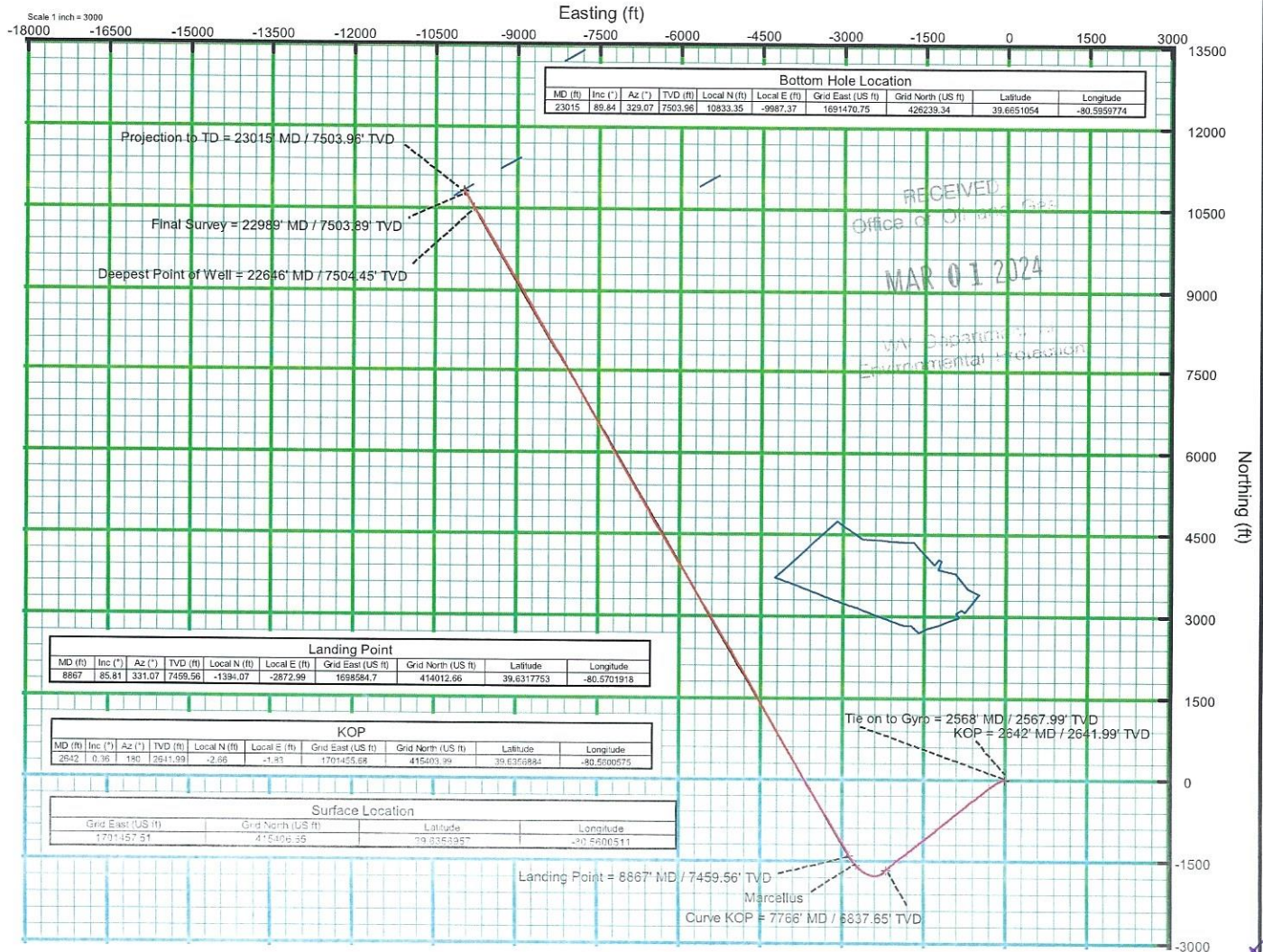
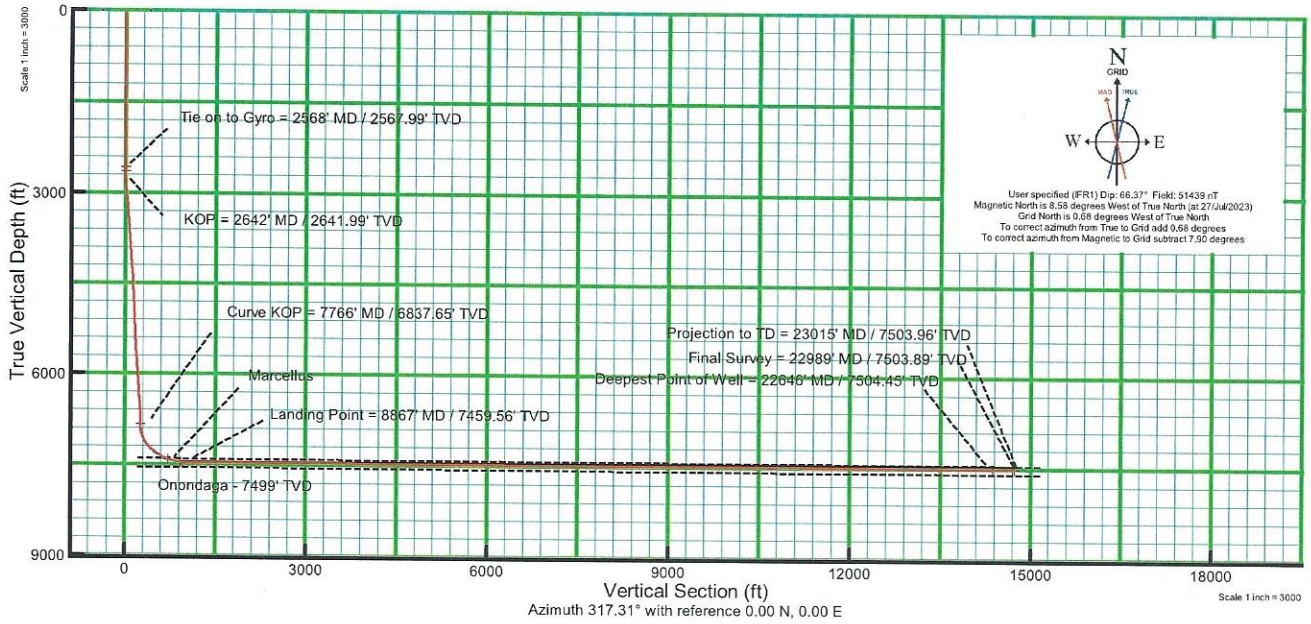
API: 47-103-03513-0000
BH Job #: 111914460
Rig: Patterson 292
Duration: 8/3/23 - 8/6/23

01_Gyrodata Cont Gyro <12-1/4">(115'-2568')
02_SDI MWD <8-3/4">(2568')(2642'-7766')
03_BH Lucida+SQC IFR1+SAG+FDIR <8-1/2">(7766')(7822'-22989')
Landing Pt. @ 8867' MD
Final Survey @ 22989' MD
Projected MD at TD: 23015'

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



06/21/2024