



Actual Wellpath Report

Knob Creek N-1HM AWB Proj: 26549'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-1HM
Field	Marshall	API	47-051-02278-0000
Facility	Knob Creek	Wellbore	Knob Creek N-1HM AWB
Slot	Slot 01		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Scurdan
Scale	0.999608	Report Generated	12/14/2023 at 1:40:34 PM
Convergence at slot	0.19° East	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	1723143.53	14443112.27	39°46'11.9353"N	80°42'20.1110"W
Facility Reference Pt			1723143.53	14443112.27	39°46'11.9353"N	80°42'20.1110"W
Field Reference Pt			1920470.12	14528304.49	40°00'0.0000"N	80°00'0.0000"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 294 (RKB) to Facility Vertical Datum	765.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	765.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Ground Level at Slot (Slot 01)	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	326.41°

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Facility	Knob Creek	Wellbore	Knob Creek N-1HM AWB
Slot	Slot 01		

WELLPATH DATA (350 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	74.000	0.00	0.00	0.00	0.00	1723143.53	14443112.27	39°46'11.9353"N	80°42'20.1110"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	74.000	28.00	0.00	0.00	0.00	1723143.53	14443112.27	39°46'11.9353"N	80°42'20.1110"W	0.00	0.000	0.00	0.00	0.00
175.00	0.090	74.000	175.00	-0.03	0.03	0.11	1723143.64	14443112.30	39°46'11.9356"N	80°42'20.1096"W	0.12	74.000	0.06	0.06	0.00
203.00	0.080	171.440	203.00	-0.06	0.02	0.14	1723143.66	14443112.29	39°46'11.9355"N	80°42'20.1092"W	0.14	82.176	0.46	-0.04	348.00
233.00	0.150	168.300	233.00	-0.11	-0.04	0.15	1723143.68	14443112.23	39°46'11.9349"N	80°42'20.1091"W	0.15	105.533	0.23	0.23	-10.47
262.00	0.140	208.350	262.00	-0.17	-0.11	0.14	1723143.67	14443112.16	39°46'11.9342"N	80°42'20.1092"W	0.18	128.500	0.34	-0.03	138.10
290.00	0.180	216.340	290.00	-0.20	-0.17	0.09	1723143.62	14443112.10	39°46'11.9336"N	80°42'20.1098"W	0.20	151.517	0.16	0.14	28.54
321.00	0.270	210.180	321.00	-0.25	-0.28	0.03	1723143.56	14443111.99	39°46'11.9326"N	80°42'20.1106"W	0.28	173.999	0.30	0.29	-19.87
352.00	0.230	223.300	352.00	-0.29	-0.39	-0.05	1723143.48	14443111.88	39°46'11.9315"N	80°42'20.1116"W	0.39	187.436	0.22	-0.13	42.32
384.00	0.230	210.210	384.00	-0.34	-0.49	-0.13	1723143.40	14443111.78	39°46'11.9305"N	80°42'20.1126"W	0.50	194.563	0.16	0.00	-40.91
415.00	0.190	172.400	415.00	-0.41	-0.59	-0.15	1723143.38	14443111.68	39°46'11.9295"N	80°42'20.1129"W	0.61	194.318	0.46	-0.13	-121.97
446.00	0.160	173.090	446.00	-0.49	-0.69	-0.14	1723143.39	14443111.58	39°46'11.9285"N	80°42'20.1128"W	0.70	191.464	0.10	-0.10	2.23
477.00	0.050	149.890	477.00	-0.55	-0.74	-0.13	1723143.40	14443111.53	39°46'11.9280"N	80°42'20.1126"W	0.75	189.740	0.37	-0.35	-74.84
513.00	0.180	171.510	513.00	-0.61	-0.81	-0.11	1723143.42	14443111.46	39°46'11.9273"N	80°42'20.1124"W	0.82	187.795	0.37	0.36	60.06
601.00	0.470	248.820	601.00	-0.66	-1.08	-0.43	1723143.10	14443111.19	39°46'11.9247"N	80°42'20.1165"W	1.16	201.622	0.53	0.33	87.85
632.00	0.480	242.370	632.00	-0.62	-1.18	-0.66	1723142.87	14443111.09	39°46'11.9236"N	80°42'20.1195"W	1.36	209.169	0.18	0.03	-20.81
664.00	0.550	254.380	663.99	-0.56	-1.29	-0.93	1723142.60	14443110.98	39°46'11.9226"N	80°42'20.1229"W	1.59	215.771	0.40	0.22	37.53
694.00	0.730	256.870	693.99	-0.45	-1.37	-1.25	1723142.28	14443110.90	39°46'11.9218"N	80°42'20.1271"W	1.86	222.440	0.61	0.60	8.30
726.00	0.770	249.120	725.99	-0.33	-1.49	-1.65	1723141.88	14443110.78	39°46'11.9206"N	80°42'20.1322"W	2.23	227.900	0.34	0.12	-24.22
758.00	0.830	251.090	757.99	-0.22	-1.64	-2.07	1723141.46	14443110.63	39°46'11.9191"N	80°42'20.1376"W	2.64	231.566	0.21	0.19	6.16
790.00	0.910	253.280	789.98	-0.09	-1.79	-2.53	1723141.00	14443110.48	39°46'11.9177"N	80°42'20.1435"W	3.10	234.733	0.27	0.25	6.84
822.00	1.060	254.280	821.98	0.07	-1.95	-3.06	1723140.47	14443110.33	39°46'11.9162"N	80°42'20.1503"W	3.63	237.574	0.47	0.47	3.12
853.00	1.230	258.330	852.97	0.29	-2.09	-3.66	1723139.87	14443110.18	39°46'11.9148"N	80°42'20.1580"W	4.22	240.296	0.61	0.55	13.06
885.00	1.400	248.340	884.96	0.49	-2.30	-4.36	1723139.17	14443109.97	39°46'11.9127"N	80°42'20.1670"W	4.94	242.166	0.89	0.53	-31.22
916.00	1.580	252.490	915.95	0.69	-2.57	-5.12	1723138.41	14443109.70	39°46'11.9100"N	80°42'20.1767"W	5.73	243.338	0.68	0.58	13.39
948.00	1.810	250.410	947.94	0.94	-2.87	-6.02	1723137.51	14443109.40	39°46'11.9071"N	80°42'20.1882"W	6.67	244.475	0.74	0.72	-6.50
980.00	1.620	251.200	979.93	1.17	-3.19	-6.92	1723136.61	14443109.08	39°46'11.9040"N	80°42'20.1998"W	7.62	245.266	0.60	-0.59	2.47
1011.00	1.180	254.770	1010.92	1.39	-3.42	-7.65	1723135.89	14443108.86	39°46'11.9018"N	80°42'20.2091"W	8.38	245.936	1.45	-1.42	11.52
1043.00	0.930	253.120	1042.91	1.56	-3.58	-8.21	1723135.32	14443108.69	39°46'11.9002"N	80°42'20.2163"W	8.96	246.468	0.79	-0.78	-5.16
1075.00	0.890	261.650	1074.91	1.75	-3.69	-8.71	1723134.82	14443108.58	39°46'11.8991"N	80°42'20.2227"W	9.46	247.044	0.44	-0.13	26.66

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Field	Marshall	API	47-051-02278-0000
Facility	Knob Creek	Wellbore	Knob Creek N-1HM AWB
Slot	Slot 01		

WELLPATH DATA (350 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]
1107.00	0.850	263.470	1106.90	1.96	-3.75	-9.19	1723134.34	14443108.52	39°46'11.8985"N	80°42'20.2288"W	9.93	247.793	0.15	-0.12	5.69
1139.00	0.660	259.430	1138.90	2.14	-3.81	-9.61	1723133.93	14443108.46	39°46'11.8979"N	80°42'20.2342"W	10.34	248.355	0.62	-0.59	-12.63
1170.00	0.400	254.570	1169.90	2.24	-3.87	-9.89	1723133.65	14443108.40	39°46'11.8973"N	80°42'20.2378"W	10.62	248.603	0.85	-0.84	-15.68
1202.00	0.170	268.410	1201.90	2.30	-3.91	-10.04	1723133.49	14443108.37	39°46'11.8970"N	80°42'20.2397"W	10.77	248.751	0.75	-0.72	43.25
1233.00	0.150	75.780	1232.90	2.31	-3.90	-10.05	1723133.49	14443108.38	39°46'11.8971"N	80°42'20.2398"W	10.78	248.806	1.03	-0.06	539.90
1264.00	0.210	42.140	1263.90	2.31	-3.84	-9.97	1723133.56	14443108.43	39°46'11.8976"N	80°42'20.2388"W	10.69	248.917	0.38	0.19	-108.52
1296.00	0.240	53.550	1295.90	2.33	-3.76	-9.88	1723133.66	14443108.51	39°46'11.8985"N	80°42'20.2376"W	10.57	249.156	0.17	0.09	35.66
1327.00	0.450	59.950	1326.90	2.33	-3.66	-9.72	1723133.81	14443108.61	39°46'11.8994"N	80°42'20.2356"W	10.39	249.360	0.69	0.68	20.65
1359.00	0.460	80.870	1358.90	2.27	-3.58	-9.48	1723134.05	14443108.69	39°46'11.9002"N	80°42'20.2326"W	10.14	249.331	0.52	0.03	65.37
1391.00	0.700	83.680	1390.89	2.12	-3.54	-9.16	1723134.37	14443108.74	39°46'11.9006"N	80°42'20.2285"W	9.82	248.899	0.76	0.75	8.78
1422.00	0.820	79.550	1421.89	1.95	-3.48	-8.76	1723134.78	14443108.80	39°46'11.9012"N	80°42'20.2233"W	9.42	248.356	0.43	0.39	-13.32
1454.00	0.910	79.960	1453.89	1.76	-3.39	-8.28	1723135.25	14443108.88	39°46'11.9021"N	80°42'20.2172"W	8.95	247.744	0.28	0.28	1.28
1486.00	1.260	80.930	1485.88	1.51	-3.29	-7.68	1723135.85	14443108.98	39°46'11.9030"N	80°42'20.2095"W	8.36	246.825	1.10	1.09	3.03
1518.00	1.730	81.000	1517.87	1.16	-3.16	-6.86	1723136.67	14443109.11	39°46'11.9043"N	80°42'20.1990"W	7.55	245.277	1.47	1.47	0.22
1549.00	2.260	75.770	1548.85	0.77	-2.94	-5.81	1723137.73	14443109.34	39°46'11.9065"N	80°42'20.1854"W	6.50	243.179	1.81	1.71	-16.87
1581.00	2.970	77.190	1580.82	0.26	-2.60	-4.39	1723139.15	14443109.67	39°46'11.9098"N	80°42'20.1672"W	5.10	239.373	2.23	2.22	4.44
1613.00	3.540	76.450	1612.77	-0.37	-2.18	-2.62	1723140.91	14443110.09	39°46'11.9138"N	80°42'20.1446"W	3.41	230.187	1.79	1.78	-2.31
1644.00	4.150	73.440	1643.70	-1.03	-1.64	-0.61	1723142.92	14443110.63	39°46'11.9191"N	80°42'20.1189"W	1.75	200.460	2.07	1.97	-9.71
1677.00	4.790	73.740	1676.60	-1.79	-0.91	1.86	1723145.39	14443111.36	39°46'11.9262"N	80°42'20.0872"W	2.07	116.132	1.94	1.94	0.91
1708.00	6.730	87.610	1707.44	-3.11	-0.47	4.91	1723148.44	14443111.80	39°46'11.9305"N	80°42'20.0481"W	4.94	95.493	7.66	6.26	44.74
1740.00	6.260	98.870	1739.24	-5.26	-0.66	8.51	1723152.04	14443111.61	39°46'11.9285"N	80°42'20.0020"W	8.54	94.457	4.23	-1.47	35.19
1771.00	5.100	105.480	1770.08	-7.44	-1.29	11.51	1723155.04	14443110.98	39°46'11.9222"N	80°42'19.9636"W	11.58	96.404	4.29	-3.74	21.32
1803.00	3.730	116.380	1801.99	-9.42	-2.13	13.81	1723157.34	14443110.14	39°46'11.9138"N	80°42'19.9342"W	13.98	98.782	5.00	-4.28	34.06
1835.00	2.650	132.890	1833.94	-11.04	-3.10	15.29	1723158.81	14443109.17	39°46'11.9042"N	80°42'19.9153"W	15.60	101.463	4.40	-3.37	51.59
1866.00	1.670	153.170	1864.92	-12.19	-3.99	16.02	1723159.54	14443108.28	39°46'11.8953"N	80°42'19.9060"W	16.51	103.991	3.96	-3.16	65.42
1898.00	1.180	199.050	1896.91	-12.85	-4.72	16.12	1723159.64	14443107.55	39°46'11.8881"N	80°42'19.9047"W	16.80	106.315	3.75	-1.53	143.38
1930.00	1.540	231.890	1928.90	-13.08	-5.30	15.67	1723159.20	14443106.98	39°46'11.8825"N	80°42'19.9105"W	16.54	108.667	2.63	1.12	102.62
1961.00	2.400	253.800	1959.88	-12.92	-5.73	14.72	1723158.25	14443106.54	39°46'11.8782"N	80°42'19.9227"W	15.80	111.278	3.64	2.77	70.68
1993.00	3.100	258.110	1991.84	-12.40	-6.10	13.23	1723156.76	14443106.17	39°46'11.8746"N	80°42'19.9418"W	14.57	114.744	2.28	2.19	13.47
2025.00	3.580	256.490	2023.79	-11.74	-6.51	11.41	1723154.94	14443105.76	39°46'11.8706"N	80°42'19.9651"W	13.14	119.699	1.53	1.50	-5.06

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Field	Marshall	API	47-051-02278-0000
Facility	Knob Creek	Wellbore	Knob Creek N-1HM AWB
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WELLPATH DATA (350 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]
2056.00	3.860	255.150	2054.72	-11.07	-7.00	9.46	1723152.99	14443105.27	39°46'11.8658"N	80°42'19.9901"W	11.77	126.502	0.95	0.90	-4.32
2087.00	3.900	257.500	2085.65	-10.36	-7.50	7.43	1723150.95	14443104.77	39°46'11.8609"N	80°42'20.0162"W	10.55	135.279	0.53	0.13	7.58
2118.00	3.690	259.070	2116.59	-9.59	-7.92	5.42	1723148.95	14443104.36	39°46'11.8569"N	80°42'20.0419"W	9.59	145.613	0.76	-0.68	5.06
2150.00	3.740	260.190	2148.52	-8.77	-8.29	3.38	1723146.91	14443103.98	39°46'11.8533"N	80°42'20.0681"W	8.95	157.826	0.28	0.16	3.50
2182.00	3.670	263.340	2180.45	-7.89	-8.59	1.33	1723144.86	14443103.69	39°46'11.8504"N	80°42'20.0943"W	8.69	171.176	0.67	-0.22	9.84
2213.00	3.360	270.430	2211.39	-6.93	-8.69	-0.56	1723142.97	14443103.58	39°46'11.8494"N	80°42'20.1185"W	8.71	183.692	1.72	-1.00	22.87
2245.00	3.350	273.980	2243.34	-5.84	-8.62	-2.43	1723141.10	14443103.65	39°46'11.8502"N	80°42'20.1425"W	8.96	195.747	0.65	-0.03	11.09
2280.00	3.380	274.840	2278.28	-4.57	-8.46	-4.48	1723139.05	14443103.81	39°46'11.8518"N	80°42'20.1687"W	9.58	207.888	0.17	0.09	2.46
2339.00	3.360	274.920	2337.18	-2.42	-8.17	-7.94	1723135.60	14443104.10	39°46'11.8548"N	80°42'20.2129"W	11.39	224.166	0.03	-0.03	0.14
2371.00	3.460	275.170	2369.12	-1.23	-8.00	-9.83	1723133.70	14443104.27	39°46'11.8565"N	80°42'20.2372"W	12.68	230.856	0.32	0.31	0.78
2403.00	4.040	272.130	2401.05	0.04	-7.87	-11.92	1723131.62	14443104.40	39°46'11.8579"N	80°42'20.2640"W	14.29	236.554	1.92	1.81	-9.50
2434.00	5.640	271.620	2431.94	1.55	-7.79	-14.53	1723129.00	14443104.48	39°46'11.8588"N	80°42'20.2974"W	16.49	241.810	5.16	5.16	-1.65
2466.00	6.730	273.530	2463.75	3.59	-7.63	-17.98	1723125.56	14443104.64	39°46'11.8605"N	80°42'20.3415"W	19.53	247.003	3.47	3.41	5.97
2498.00	6.750	273.060	2495.53	5.84	-7.41	-21.73	1723121.81	14443104.86	39°46'11.8627"N	80°42'20.3895"W	22.96	251.158	0.18	0.06	-1.47
2529.00	6.640	269.600	2526.32	7.91	-7.33	-25.34	1723118.20	14443104.94	39°46'11.8637"N	80°42'20.4358"W	26.38	253.867	1.35	-0.35	-11.16
2561.00	6.490	268.300	2558.11	9.88	-7.40	-29.00	1723114.55	14443104.88	39°46'11.8632"N	80°42'20.4826"W	29.92	255.691	0.66	-0.47	-4.06
2593.00	6.390	267.270	2589.91	11.75	-7.53	-32.58	1723110.96	14443104.74	39°46'11.8619"N	80°42'20.5286"W	33.44	256.980	0.48	-0.31	-3.22
2625.00	5.870	262.580	2621.73	13.38	-7.83	-35.98	1723107.56	14443104.44	39°46'11.8591"N	80°42'20.5721"W	36.83	257.723	2.25	-1.62	-14.66
2656.00	5.250	255.290	2652.58	14.54	-8.40	-38.93	1723104.62	14443103.88	39°46'11.8536"N	80°42'20.6099"W	39.82	257.830	3.03	-2.00	-23.52
2688.00	5.260	249.900	2684.45	15.36	-9.27	-41.72	1723101.83	14443103.00	39°46'11.8450"N	80°42'20.6457"W	42.74	257.471	1.54	0.03	-16.84
2720.00	5.120	249.930	2716.31	16.03	-10.27	-44.44	1723099.11	14443102.01	39°46'11.8353"N	80°42'20.6805"W	45.61	256.993	0.44	-0.44	0.09
2752.00	4.810	253.560	2748.19	16.76	-11.13	-47.07	1723096.48	14443101.14	39°46'11.8268"N	80°42'20.7142"W	48.37	256.690	1.38	-0.97	11.34
2783.00	4.280	265.400	2779.10	17.71	-11.60	-49.47	1723094.08	14443100.68	39°46'11.8223"N	80°42'20.7450"W	50.81	256.808	3.47	-1.71	38.19
2814.00	4.020	270.230	2810.02	18.87	-11.68	-51.71	1723091.84	14443100.59	39°46'11.8215"N	80°42'20.7737"W	53.01	257.267	1.40	-0.84	15.58
2845.00	3.960	267.300	2840.94	20.03	-11.73	-53.86	1723089.69	14443100.54	39°46'11.8211"N	80°42'20.8013"W	55.13	257.714	0.69	-0.19	-9.45
2876.00	4.280	270.420	2871.86	21.22	-11.77	-56.09	1723087.46	14443100.50	39°46'11.8208"N	80°42'20.8298"W	57.31	258.147	1.26	1.03	10.06
2908.00	4.900	269.750	2903.76	22.64	-11.77	-58.65	1723084.90	14443100.51	39°46'11.8209"N	80°42'20.8626"W	59.82	258.653	1.94	1.94	-2.09
2939.00	5.130	271.060	2934.64	24.16	-11.75	-61.36	1723082.20	14443100.53	39°46'11.8212"N	80°42'20.8973"W	62.47	259.160	0.83	0.74	4.23
2971.00	4.940	272.120	2966.52	25.78	-11.67	-64.17	1723079.39	14443100.60	39°46'11.8220"N	80°42'20.9332"W	65.22	259.691	0.66	-0.59	3.31
3002.00	4.850	270.670	2997.40	27.29	-11.61	-66.81	1723076.75	14443100.67	39°46'11.8228"N	80°42'20.9671"W	67.81	260.144	0.49	-0.29	-4.68

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Knob Creek N-1HM AWB Proj: 26549'
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Facility	Knob Creek	Wellbore	Knob Creek N-1HM AWB
Slot	Slot 01		

WELLPATH DATA (350 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]
3034.00	4.810	270.120	3029.29	28.80	-11.59	-69.50	1723074.05	14443100.69	39°46'11.8230"N	80°42'21.0016"W	70.46	260.534	0.19	-0.13	-1.72
3065.00	4.880	267.290	3060.18	30.20	-11.65	-72.12	1723071.44	14443100.63	39°46'11.8225"N	80°42'21.0351"W	73.06	260.826	0.80	0.23	-9.13
3097.00	4.600	266.870	3092.07	31.55	-11.78	-74.76	1723068.80	14443100.49	39°46'11.8213"N	80°42'21.0689"W	75.69	261.044	0.88	-0.88	-1.31
3129.00	4.930	266.320	3123.96	32.88	-11.94	-77.42	1723066.14	14443100.33	39°46'11.8198"N	80°42'21.1029"W	78.33	261.232	1.04	1.03	-1.72
3161.00	6.060	269.870	3155.81	34.50	-12.03	-80.48	1723063.08	14443100.24	39°46'11.8190"N	80°42'21.1421"W	81.37	261.496	3.69	3.53	11.09
3193.00	7.370	269.980	3186.60	36.50	-12.04	-84.10	1723059.46	14443100.24	39°46'11.8191"N	80°42'21.1885"W	84.96	261.855	4.23	4.23	0.35
3224.00	8.610	269.080	3218.29	38.93	-12.08	-88.55	1723055.02	14443100.20	39°46'11.8188"N	80°42'21.2455"W	89.37	262.234	3.89	3.87	-2.81
3255.00	9.800	268.390	3248.89	41.58	-12.19	-93.51	1723050.06	14443100.09	39°46'11.8179"N	80°42'21.3090"W	94.30	262.574	3.86	3.84	-2.23
3287.00	10.960	266.200	3280.36	44.53	-12.47	-99.27	1723044.30	14443099.81	39°46'11.8153"N	80°42'21.3828"W	100.04	262.842	3.83	3.63	-6.84
3319.00	12.110	264.120	3311.72	47.61	-13.01	-105.64	1723037.93	14443099.26	39°46'11.8101"N	80°42'21.4644"W	106.44	262.978	3.82	3.59	-6.50
3351.00	13.140	261.800	3342.94	50.73	-13.87	-112.58	1723031.00	14443098.40	39°46'11.8018"N	80°42'21.5533"W	113.43	262.974	3.59	3.22	-7.25
3383.00	14.420	258.880	3374.02	53.81	-15.16	-120.09	1723023.49	14443097.11	39°46'11.7894"N	80°42'21.6496"W	121.04	262.804	4.55	4.00	-9.13
3413.00	15.300	258.420	3403.02	56.72	-16.68	-127.63	1723015.95	14443095.60	39°46'11.7746"N	80°42'21.7462"W	128.72	262.556	2.96	2.93	-1.53
3443.00	15.140	256.850	3434.86	59.86	-18.53	-136.09	1723007.49	14443093.75	39°46'11.7566"N	80°42'21.8547"W	137.35	262.246	1.34	-0.48	-4.76
3477.00	14.780	254.710	3464.81	62.51	-20.49	-143.85	1722999.74	14443091.78	39°46'11.7374"N	80°42'21.9541"W	145.30	261.892	2.13	-1.16	-6.90
3509.00	14.460	253.290	3495.77	64.95	-22.72	-151.61	1722991.98	14443089.56	39°46'11.7157"N	80°42'22.0536"W	153.31	261.477	1.50	-1.00	-4.44
3541.00	14.080	252.840	3526.79	67.21	-25.02	-159.16	1722984.43	14443087.26	39°46'11.6932"N	80°42'22.1503"W	161.11	261.067	1.24	-1.19	-1.41
3556.00	13.880	252.200	3541.34	68.22	-26.11	-162.62	1722980.98	14443086.18	39°46'11.6826"N	80°42'22.1946"W	164.70	260.880	1.69	-1.33	-4.27
3643.00	15.370	254.360	3625.52	74.61	-32.40	-183.66	1722959.95	14443079.88	39°46'11.6210"N	80°42'22.4644"W	186.49	259.994	1.82	1.71	2.48
3738.00	16.070	254.450	3716.97	82.57	-39.32	-208.45	1722935.16	14443072.96	39°46'11.5534"N	80°42'22.7821"W	212.12	259.317	0.74	0.74	0.09
3833.00	18.070	254.760	3807.78	91.28	-46.72	-235.33	1722908.29	14443065.57	39°46'11.4812"N	80°42'23.1268"W	239.93	258.771	2.11	2.11	0.33
3929.00	19.760	254.290	3898.59	100.95	-55.03	-265.32	1722878.31	14443057.26	39°46'11.4001"N	80°42'23.5112"W	270.97	258.283	1.77	1.76	-0.49
4024.00	21.760	254.370	3986.48	111.20	-64.03	-297.40	1722846.25	14443048.27	39°46'11.3122"N	80°42'23.9224"W	304.21	257.850	2.13	2.13	0.09
4118.00	23.820	259.550	4074.07	124.17	-72.25	-333.23	1722810.43	14443040.05	39°46'11.2320"N	80°42'24.3816"W	340.97	257.766	3.03	2.17	5.45
4213.00	24.020	258.530	4160.91	138.99	-79.58	-371.05	1722772.63	14443032.72	39°46'11.1609"N	80°42'24.8662"W	379.48	257.895	0.48	0.21	-1.07
4309.00	23.840	257.820	4248.66	153.43	-87.56	-409.16	1722734.53	14443024.75	39°46'11.0833"N	80°42'25.3546"W	418.42	257.921	0.35	-0.19	-0.74
4403.00	23.730	258.600	4334.68	167.51	-95.30	-446.27	1722697.44	14443017.00	39°46'11.0079"N	80°42'25.8302"W	456.33	257.945	0.35	-0.12	0.83
4498.00	23.790	257.990	4421.62	181.77	-103.07	-483.75	1722659.97	14443009.24	39°46'10.9324"N	80°42'26.3105"W	494.61	257.972	0.27	0.06	-0.64
4594.00	23.660	258.670	4509.51	196.19	-110.88	-521.57	1722622.16	14443001.43	39°46'10.8564"N	80°42'26.7953"W	533.23	257.998	0.32	-0.14	0.71
4689.00	24.010	259.690	4596.41	211.05	-118.09	-569.28	1722584.47	14442994.23	39°46'10.7864"N	80°42'27.2785"W	571.61	258.078	0.57	0.37	1.07

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Slot	Slot 01		

WELLPATH DATA (350 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]
4784.00	24.970	258.410	4682.86	226.20	-125.57	-597.94	1722545.82	14442986.75	39°46'10.7137"N	80°42'27.7739"W	610.98	258.140	1.15	1.01	-1.35
4879.00	24.910	259.320	4769.00	241.50	-133.31	-637.24	1722506.54	14442979.01	39°46'10.6385"N	80°42'28.2775"W	651.04	258.184	0.41	-0.06	0.96
4974.00	25.000	260.720	4855.13	257.56	-140.25	-676.72	1722467.08	14442972.07	39°46'10.5711"N	80°42'28.7833"W	691.10	258.291	0.63	0.09	1.47
5069.00	25.000	260.160	4941.23	273.90	-146.92	-716.31	1722427.51	14442965.41	39°46'10.5065"N	80°42'29.2906"W	731.22	258.409	0.25	0.00	-0.59
5164.00	24.190	259.720	5027.61	289.69	-153.83	-755.24	1722388.59	14442958.50	39°46'10.4395"N	80°42'29.7895"W	770.74	258.487	0.87	-0.85	-0.46
5259.00	24.200	260.230	5114.27	305.26	-160.60	-793.58	1722350.26	14442951.73	39°46'10.3738"N	80°42'30.2808"W	809.67	258.559	0.22	0.01	0.54
5355.00	24.200	260.080	5201.83	321.10	-167.33	-832.35	1722311.51	14442945.00	39°46'10.3085"N	80°42'30.7776"W	849.00	258.633	0.06	0.00	-0.16
5449.00	23.970	260.760	5287.65	336.71	-173.72	-870.18	1722273.70	14442938.62	39°46'10.2466"N	80°42'31.2623"W	887.35	258.710	0.38	-0.24	0.72
5544.00	23.970	260.660	5374.46	352.59	-179.95	-908.26	1722235.62	14442932.39	39°46'10.1863"N	80°42'31.7503"W	925.92	258.793	0.04	0.00	-0.11
5639.00	24.150	260.010	5461.20	368.30	-186.45	-946.44	1722197.46	14442925.89	39°46'10.1232"N	80°42'32.2396"W	964.64	258.855	0.34	0.19	-0.68
5734.00	24.200	260.690	5547.87	384.09	-192.97	-984.80	1722159.12	14442919.37	39°46'10.0600"N	80°42'32.7310"W	1003.53	258.913	0.30	0.05	0.72
5829.00	24.430	260.480	5634.44	400.11	-199.37	-1023.39	1722120.55	14442912.98	39°46'9.9980"N	80°42'33.2255"W	1042.63	258.976	0.26	0.24	-0.22
5924.00	25.210	259.580	5720.67	416.08	-206.28	-1062.66	1722081.29	14442906.07	39°46'9.9310"N	80°42'33.7287"W	1082.50	259.015	0.91	0.82	-0.95
6019.00	27.860	277.250	5805.79	438.59	-207.14	-1104.65	1722039.31	14442905.21	39°46'9.9239"N	80°42'34.2665"W	1123.91	259.379	8.73	2.79	18.60
6113.00	32.570	289.210	5887.07	473.16	-196.03	-1150.40	1721993.58	14442916.32	39°46'10.0351"N	80°42'34.8520"W	1166.98	260.330	8.11	5.01	12.72
6207.00	39.790	297.450	5962.94	519.72	-173.79	-1201.08	1721942.92	14442938.55	39°46'10.2565"N	80°42'35.5001"W	1213.59	261.767	9.25	7.68	8.77
6302.00	47.420	308.840	6031.78	579.85	-137.74	-1255.47	1721888.56	14442974.59	39°46'10.6146"N	80°42'36.1951"W	1263.00	263.739	11.50	8.03	11.99
6397.00	55.670	314.490	6090.84	651.73	-88.20	-1310.82	1721833.23	14443024.10	39°46'11.1059"N	80°42'36.9019"W	1313.78	266.150	9.85	8.68	5.95
6492.00	63.520	315.850	6138.89	732.04	-30.11	-1368.51	1721775.56	14443082.17	39°46'11.6818"N	80°42'37.6383"W	1368.84	268.739	8.35	8.26	1.43
6588.00	70.280	321.550	6176.56	819.46	36.22	-1426.64	1721717.45	14443148.48	39°46'12.3392"N	80°42'38.3800"W	1427.10	271.454	8.91	7.04	5.94
6682.00	78.370	325.660	6201.94	909.76	109.03	-1480.23	1721663.89	14443221.26	39°46'13.0605"N	80°42'39.0633"W	1484.24	274.213	9.58	8.61	4.37
6777.00	86.010	327.850	6214.84	1003.80	187.69	-1531.77	1721612.36	14443299.89	39°46'13.8395"N	80°42'39.7202"W	1543.23	276.986	8.36	8.04	2.31
6872.00	87.640	327.030	6220.10	1098.63	267.64	-1582.82	1721561.34	14443379.80	39°46'14.6312"N	80°42'40.3706"W	1605.29	279.597	1.92	1.72	-0.86
6967.00	89.340	330.370	6222.61	1193.51	348.77	-1632.15	1721512.03	14443460.90	39°46'15.4346"N	80°42'40.9990"W	1668.99	282.062	3.94	1.79	3.52
7062.00	89.490	328.990	6223.58	1288.35	430.77	-1680.10	1721464.09	14443542.87	39°46'16.2465"N	80°42'41.6098"W	1734.44	284.381	1.46	0.16	-1.45
7156.00	89.900	330.760	6224.08	1382.17	512.07	-1727.28	1721416.94	14443624.14	39°46'17.0514"N	80°42'42.2106"W	1801.58	286.513	1.93	0.44	1.88
7251.00	90.360	331.150	6223.86	1476.87	595.12	-1773.40	1721370.83	14443707.15	39°46'17.8737"N	80°42'42.7978"W	1870.59	288.551	0.63	0.48	0.41
7346.00	90.300	330.650	6223.32	1571.58	678.13	-1819.60	1721324.65	14443790.13	39°46'18.6955"N	80°42'43.3861"W	1941.85	290.439	0.53	-0.06	-0.53
7441.00	90.420	330.370	6222.72	1666.33	760.82	-1866.36	1721277.90	14443872.79	39°46'19.5141"N	80°42'43.9816"W	2015.48	292.178	0.32	0.13	-0.29
7535.00	90.240	331.400	6222.18	1760.04	842.94	-1912.10	1721232.19	14443954.87	39°46'20.3272"N	80°42'44.5640"W	2089.66	293.790	1.11	-0.19	1.10

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7630.00	90.360	330.980	6221.68	1854.71	926.18	-1957.88	1721186.42	14444038.08	39°46'21.1512"N	80°42'45.1469"W	2165.89	295.317	0.46	0.13	-0.44
7725.00	90.360	330.610	6221.08	1949.43	1009.10	-2004.23	1721140.09	14444120.97	39°46'21.9722"N	80°42'45.7371"W	2243.93	296.725	0.39	0.00	-0.39
7820.00	90.390	330.270	6220.46	2044.19	1091.73	-2051.10	1721093.24	14444203.57	39°46'22.7903"N	80°42'46.3340"W	2323.55	298.025	0.36	0.03	-0.36
7915.00	90.360	329.910	6219.84	2138.99	1174.08	-2098.47	1721045.89	14444285.88	39°46'23.6056"N	80°42'46.9372"W	2404.58	299.227	0.38	-0.03	-0.38
8010.00	90.640	330.630	6219.01	2233.78	1256.57	-2145.58	1720998.80	14444368.34	39°46'24.4223"N	80°42'47.5372"W	2486.46	300.356	0.81	0.29	0.76
8105.00	90.640	331.140	6217.95	2328.48	1339.56	-2191.80	1720952.60	14444451.30	39°46'25.2440"N	80°42'48.1258"W	2568.73	301.432	0.54	0.00	0.54
8200.00	90.790	331.350	6216.76	2423.13	1422.84	-2237.50	1720906.92	14444534.55	39°46'26.0684"N	80°42'48.7076"W	2651.57	302.453	0.27	0.16	0.22
8294.00	90.050	330.340	6216.08	2516.85	1504.92	-2283.29	1720861.14	14444616.60	39°46'26.8811"N	80°42'49.2908"W	2734.63	303.389	1.33	-0.79	-1.07
8380.00	90.670	331.720	6215.48	2611.53	1588.03	-2329.30	1720815.15	14444699.68	39°46'27.7039"N	80°42'49.8766"W	2819.13	304.285	1.59	0.65	1.45
8484.00	89.650	329.670	6215.21	2706.26	1670.87	-2375.79	1720768.67	14444782.48	39°46'28.5240"N	80°42'50.4687"W	2904.51	305.118	2.41	-1.07	-2.16
8579.00	90.300	331.000	6215.25	2801.04	1753.42	-2422.81	1720721.67	14444864.99	39°46'29.3413"N	80°42'51.0675"W	2990.73	305.894	1.56	0.68	1.40
8674.00	90.330	330.450	6214.73	2895.77	1836.28	-2469.26	1720675.24	14444947.83	39°46'30.1617"N	80°42'51.6591"W	3077.21	306.637	0.58	0.03	-0.58
8769.00	90.580	331.140	6213.98	2990.48	1919.20	-2515.62	1720628.90	14445030.71	39°46'30.9826"N	80°42'52.2494"W	3164.12	307.341	0.77	0.26	0.73
8864.00	90.360	329.410	6213.20	3085.26	2001.69	-2562.72	1720581.82	14445113.18	39°46'31.7993"N	80°42'52.8493"W	3251.82	307.993	1.84	-0.23	-1.82
8958.00	90.300	329.250	6212.66	3179.14	2082.54	-2610.67	1720533.89	14445193.99	39°46'32.5999"N	80°42'53.4601"W	3339.55	308.580	0.18	-0.06	-0.17
9054.00	90.080	329.180	6212.34	3275.02	2165.02	-2659.80	1720484.78	14445276.43	39°46'33.4165"N	80°42'54.0860"W	3429.55	309.145	0.24	-0.23	-0.07
9149.00	89.810	329.480	6212.43	3369.90	2246.73	-2708.26	1720436.34	14445358.11	39°46'34.2255"N	80°42'54.7034"W	3518.87	309.679	0.42	-0.28	0.32
9243.00	89.680	329.700	6212.85	3463.75	2327.80	-2755.84	1720388.78	14445439.15	39°46'35.0282"N	80°42'55.3095"W	3607.39	310.187	0.27	-0.14	0.23
9339.00	90.540	328.780	6212.66	3559.63	2410.29	-2804.94	1720339.70	14445521.61	39°46'35.8449"N	80°42'55.9349"W	3698.26	310.673	1.31	0.90	-0.96
9434.00	90.300	330.120	6211.97	3654.50	2492.10	-2853.22	1720291.43	14445603.38	39°46'36.6549"N	80°42'56.5500"W	3788.33	311.135	1.43	-0.25	1.41
9529.00	91.470	329.850	6210.50	3749.30	2574.35	-2900.74	1720243.94	14445685.60	39°46'37.4693"N	80°42'57.1553"W	3878.34	311.588	1.26	1.23	-0.28
9623.00	90.210	330.160	6209.12	3843.10	2655.75	-2947.72	1720196.97	14445766.97	39°46'38.2752"N	80°42'57.7538"W	3967.63	312.017	1.38	-1.34	0.33
9718.00	90.140	329.690	6208.83	3937.92	2737.95	-2995.33	1720149.38	14445849.15	39°46'39.0891"N	80°42'58.3602"W	4058.13	312.430	0.50	-0.07	-0.49
9813.00	88.880	329.530	6209.64	4032.77	2819.90	-3043.39	1720101.34	14445931.06	39°46'39.9004"N	80°42'58.9724"W	4148.98	312.817	1.34	-1.33	-0.17
9908.00	90.020	329.520	6210.56	4127.62	2901.77	-3091.57	1720053.18	14446012.89	39°46'40.7111"N	80°42'59.5861"W	4240.05	313.186	1.20	1.20	-0.01
10003.00	89.930	329.300	6210.60	4222.49	2983.55	-3139.91	1720004.86	14446094.64	39°46'41.5208"N	80°43'0.2020"W	4331.35	313.537	0.25	-0.09	-0.23
10098.00	90.640	330.250	6210.13	4317.32	3065.63	-3187.73	1719957.06	14446176.69	39°46'42.3334"N	80°43'0.8112"W	4422.64	313.881	1.25	0.75	1.00
10194.00	89.740	329.570	6209.81	4413.14	3148.69	-3235.86	1719908.94	14446259.72	39°46'43.1558"N	80°43'1.4243"W	4514.98	314.218	1.18	-0.94	-0.71
10289.00	90.730	329.320	6209.42	4508.01	3230.50	-3284.15	1719860.67	14446341.49	39°46'43.9658"N	80°43'2.0396"W	4606.71	314.528	1.07	1.04	-0.26
10384.00	89.900	329.380	6208.90	4602.88	3312.22	-3332.58	1719812.26	14446423.19	39°46'44.7750"N	80°43'2.6565"W	4698.61	314.824	0.88	-0.87	0.06

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Actual Wellpath Report

Knob Creek N-1HM AWB Proj: 26549'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-1HM
Field	Marshall	API	47-051-02278-0000
Facility	Knob Creek	Wellbore	Knob Creek N-1HM AWB
Slot	Slot 01		

WELLPATH DATA (350 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]
10479.00	90.210	329.430	6208.80	4697.75	3394.00	-3380.93	1719763.93	14446504.93	39°46'45.5846"N	80°43'3.2726"W	4790.61	315.110	0.33	0.33	0.05
10574.00	90.510	329.400	6208.21	4792.62	3475.78	-3429.27	1719715.61	14446586.68	39°46'46.3944"N	80°43'3.8884"W	4882.72	315.386	0.32	0.32	-0.03
10669.00	90.330	329.840	6207.51	4887.47	3557.73	-3477.31	1719667.59	14446668.60	39°46'47.2058"N	80°43'4.5004"W	4974.85	315.655	0.50	-0.19	0.46
10764.00	90.240	330.020	6207.04	4982.29	3639.95	-3524.91	1719620.00	14446750.78	39°46'48.0197"N	80°43'5.1068"W	5066.97	315.920	0.21	-0.09	0.19
10859.00	89.960	328.790	6206.87	5077.15	3721.72	-3573.27	1719571.67	14446832.52	39°46'48.8294"N	80°43'5.7228"W	5159.40	316.166	1.33	-0.29	-1.29
10954.00	90.670	329.660	6206.35	5172.04	3803.34	-3621.87	1719523.09	14446914.11	39°46'49.6375"N	80°43'6.3421"W	5251.98	316.400	1.18	0.75	0.92
11048.00	90.270	329.490	6205.58	5265.89	3884.39	-3669.47	1719475.50	14446995.13	39°46'50.4400"N	80°43'6.9485"W	5343.55	316.630	0.46	-0.43	-0.18
11143.00	90.760	329.810	6204.73	5360.73	3966.37	-3717.47	1719427.52	14447077.07	39°46'51.2516"N	80°43'7.5601"W	5436.15	316.855	0.62	0.52	0.34
11238.00	90.640	329.860	6203.56	5455.56	4048.50	-3765.21	1719379.81	14447159.17	39°46'52.0648"N	80°43'8.1681"W	5528.75	317.076	0.14	-0.13	0.05
11333.00	89.990	329.660	6203.04	5550.39	4130.57	-3813.05	1719331.98	14447241.21	39°46'52.8773"N	80°43'8.7777"W	5621.47	317.289	0.72	-0.68	-0.21
11428.00	89.990	328.930	6203.06	5645.27	4212.25	-3861.56	1719283.49	14447322.86	39°46'53.6861"N	80°43'9.3957"W	5714.43	317.487	0.77	0.00	-0.77
11523.00	89.930	329.380	6203.13	5740.16	4293.81	-3910.27	1719234.81	14447404.39	39°46'54.4936"N	80°43'10.0163"W	5807.50	317.677	0.48	-0.06	0.47
11619.00	90.300	329.800	6202.93	5836.01	4376.60	-3958.86	1719186.23	14447487.15	39°46'55.3133"N	80°43'10.6354"W	5901.46	317.869	0.58	0.39	0.44
11713.00	90.730	329.670	6202.09	5929.85	4457.79	-4006.23	1719138.88	14447568.30	39°46'56.1171"N	80°43'11.2390"W	5993.48	318.054	0.48	0.46	-0.14
11808.00	88.330	328.990	6202.87	6024.72	4539.49	-4054.69	1719090.44	14447649.97	39°46'56.9261"N	80°43'11.8564"W	6086.66	318.229	2.63	-2.53	-0.72
11903.00	91.530	331.920	6202.98	6119.46	4622.12	-4101.52	1719043.63	14447732.57	39°46'57.7441"N	80°43'12.4530"W	6179.52	318.415	4.57	3.37	3.08
11998.00	88.450	328.440	6203.00	6214.23	4704.52	-4148.75	1718996.42	14447814.93	39°46'58.5599"N	80°43'13.0546"W	6272.53	318.592	4.89	-3.24	-3.66
12093.00	90.640	328.800	6203.75	6309.15	4785.61	-4198.21	1718946.97	14447896.00	39°46'59.3628"N	80°43'13.6849"W	6366.09	318.741	2.34	2.31	0.38
12188.00	88.230	329.870	6204.69	6404.01	4867.32	-4246.66	1718898.55	14447977.67	39°47'0.1718"N	80°43'14.3022"W	6459.48	318.896	2.78	-2.54	1.13
12283.00	89.990	329.340	6206.17	6498.85	4949.25	-4294.71	1718850.51	14448059.57	39°47'0.9830"N	80°43'14.9145"W	6552.83	319.050	1.93	1.85	-0.56
12378.00	90.510	329.550	6205.75	6593.71	5031.06	-4343.01	1718802.23	14448141.34	39°47'1.7929"N	80°43'15.5299"W	6646.30	319.198	0.59	0.55	0.22
12473.00	90.270	329.200	6205.11	6688.58	5112.80	-4391.40	1718753.86	14448223.06	39°47'2.6023"N	80°43'16.1465"W	6739.82	319.341	0.45	-0.25	-0.37
12568.00	90.420	329.450	6204.53	6783.46	5194.51	-4439.87	1718705.41	14448304.73	39°47'3.4112"N	80°43'16.7641"W	6833.40	319.479	0.31	0.16	0.26
12663.00	90.390	329.460	6203.86	6878.32	5276.32	-4488.15	1718657.15	14448386.51	39°47'4.2213"N	80°43'17.3792"W	6926.98	319.615	0.03	-0.03	0.01
12759.00	90.760	330.470	6202.90	6974.13	5359.43	-4536.19	1718609.12	14448469.58	39°47'5.0440"N	80°43'17.9914"W	7021.43	319.756	1.12	0.39	1.05
12854.00	90.080	330.250	6202.20	7068.90	5441.99	-4583.17	1718562.16	14448552.12	39°47'5.8615"N	80°43'18.5899"W	7114.83	319.896	0.75	-0.72	-0.23
12949.00	90.110	329.400	6202.04	7163.73	5524.12	-4630.93	1718514.43	14448634.21	39°47'6.6745"N	80°43'19.1983"W	7208.42	320.027	0.90	0.03	-0.89
13044.00	90.050	329.750	6201.91	7258.59	5606.04	-4679.03	1718466.34	14448716.10	39°47'7.4856"N	80°43'19.8113"W	7302.12	320.150	0.37	-0.06	0.37
13139.00	90.390	329.840	6201.55	7353.42	5688.14	-4726.83	1718418.57	14448798.17	39°47'8.2984"N	80°43'20.4202"W	7395.80	320.274	0.37	0.36	0.09
13234.00	90.200	329.400	6201.06	7448.27	5770.09	-4774.87	1718370.54	14448880.09	39°47'9.1098"N	80°43'21.0324"W	7489.55	320.392	0.50	-0.20	-0.46

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