



# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## 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	11/20/2023 at 9:21:41 AM
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	18.76	14.98	1723158.50	14443131.02	39°46'12.1202"N	80°42'19.9184"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 03)	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	330.82°

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Field	Marshall	API	47-051-02280-0000
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Slot	Slot 03		

## WELLPATH DATA (288 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	293.460	0.00	0.00	0.00	0.00	1723158.50	14443131.02	39°46'12.1202"N	80°42'19.9184"W	0.00	0.000	0.00	0.00	0.00
23.00	0.000	293.460	28.00	0.00	0.00	0.00	1723158.50	14443131.02	39°46'12.1202"N	80°42'19.9184"W	0.00	0.000	0.00	0.00	0.00
204.00	0.440	293.460	204.00	0.54	0.27	-0.62	1723157.88	14443131.29	39°46'12.1229"N	80°42'19.9263"W	0.68	293.460	0.25	0.25	0.00
233.00	0.440	295.060	233.00	0.72	0.36	-0.82	1723157.68	14443131.38	39°46'12.1238"N	80°42'19.9289"W	0.90	293.658	0.04	0.00	5.52
263.00	0.490	310.500	263.00	0.93	0.49	-1.02	1723157.48	14443131.51	39°46'12.1251"N	80°42'19.9315"W	1.14	295.673	0.45	0.17	51.47
293.00	0.440	311.110	293.00	1.16	0.65	-1.21	1723157.29	14443131.67	39°46'12.1267"N	80°42'19.9339"W	1.37	298.323	0.17	-0.17	2.03
322.00	0.440	311.110	293.00	1.16	0.65	-1.21	1723157.29	14443131.67	39°46'12.1267"N	80°42'19.9339"W	1.37	298.323	0.17	-0.17	2.03
322.00	0.550	288.990	321.99	1.37	0.77	-1.42	1723157.08	14443131.79	39°46'12.1278"N	80°42'19.9366"W	1.62	298.396	0.75	0.38	-76.28
354.00	0.560	281.100	353.99	1.58	0.85	-1.72	1723156.78	14443131.87	39°46'12.1286"N	80°42'19.9404"W	1.92	296.261	0.24	0.03	-24.66
385.00	0.410	289.380	384.99	1.76	0.92	-1.98	1723156.52	14443131.94	39°46'12.1293"N	80°42'19.9437"W	2.18	294.869	0.53	-0.48	26.71
417.00	0.420	300.710	416.99	1.95	1.01	-2.19	1723156.32	14443132.03	39°46'12.1303"N	80°42'19.9463"W	2.41	294.893	0.26	0.03	35.41
447.00	0.380	326.270	446.99	2.15	1.15	-2.34	1723156.17	14443132.17	39°46'12.1317"N	80°42'19.9483"W	2.60	296.278	0.60	-0.13	85.20
479.00	0.260	351.280	478.99	2.32	1.31	-2.41	1723156.10	14443132.33	39°46'12.1332"N	80°42'19.9491"W	2.74	298.631	0.57	-0.38	78.16
510.00	0.420	303.410	509.99	2.49	1.45	-2.51	1723155.99	14443132.46	39°46'12.1345"N	80°42'19.9505"W	2.90	299.924	1.01	0.52	-154.42
538.00	0.330	345.140	537.99	2.66	1.58	-2.62	1723155.88	14443132.60	39°46'12.1359"N	80°42'19.9518"W	3.06	301.114	1.00	-0.32	149.04
570.00	0.260	323.800	569.99	2.82	1.73	-2.68	1723155.82	14443132.75	39°46'12.1373"N	80°42'19.9527"W	3.19	302.767	0.40	-0.22	-66.69
601.00	0.460	306.490	600.99	3.00	1.86	-2.83	1723155.68	14443132.88	39°46'12.1386"N	80°42'19.9545"W	3.38	303.331	0.73	0.65	-55.84
633.00	0.460	276.190	632.99	3.19	1.95	-3.06	1723155.45	14443132.97	39°46'12.1395"N	80°42'19.9574"W	3.62	302.517	0.75	0.00	-94.69
665.00	0.570	285.800	664.99	3.38	2.01	-3.34	1723155.16	14443133.02	39°46'12.1401"N	80°42'19.9610"W	3.89	301.004	0.44	0.34	30.03
695.00	0.500	296.710	694.98	3.59	2.10	-3.60	1723154.90	14443133.12	39°46'12.1411"N	80°42'19.9644"W	4.17	300.332	0.41	-0.23	36.37
727.00	0.490	287.320	726.98	3.81	2.21	-3.85	1723154.65	14443133.23	39°46'12.1421"N	80°42'19.9676"W	4.44	299.820	0.26	-0.03	-29.34
759.00	0.640	297.240	758.98	4.05	2.33	-4.14	1723154.36	14443133.35	39°46'12.1434"N	80°42'19.9713"W	4.75	299.366	0.56	0.47	31.00
791.00	0.650	294.470	790.98	4.35	2.49	-4.47	1723154.04	14443133.51	39°46'12.1449"N	80°42'19.9755"W	5.11	299.119	0.10	0.03	-8.66
822.00	0.740	292.810	821.98	4.65	2.64	-4.81	1723153.69	14443133.66	39°46'12.1464"N	80°42'19.9799"W	5.49	298.740	0.30	0.29	-5.35
854.00	0.850	298.240	853.97	5.01	2.83	-5.21	1723153.29	14443133.85	39°46'12.1483"N	80°42'19.9850"W	5.93	298.514	0.42	0.34	16.97
885.00	0.760	275.830	884.97	5.32	2.96	-5.62	1723152.88	14443133.98	39°46'12.1496"N	80°42'19.9902"W	6.35	297.788	1.05	-0.29	-72.29
917.00	0.600	277.810	916.97	5.55	3.00	-5.99	1723152.51	14443134.02	39°46'12.1501"N	80°42'19.9950"W	6.71	296.621	0.51	-0.50	6.19
948.00	0.520	257.090	947.97	5.68	3.00	-6.29	1723152.21	14443134.01	39°46'12.1500"N	80°42'19.9989"W	6.97	295.455	0.70	-0.26	-66.84
980.00	0.430	238.370	979.97	5.72	2.90	-6.54	1723151.97	14443133.92	39°46'12.1491"N	80°42'20.0020"W	7.15	293.925	0.56	-0.28	-58.50
1012.00	0.530	208.840	1011.97	5.64	2.71	-6.71	1723151.79	14443133.73	39°46'12.1472"N	80°42'20.0042"W	7.24	291.973	0.82	0.31	-92.28
1044.00	0.580	175.930	1043.96	5.41	2.42	-6.77	1723151.73	14443133.44	39°46'12.1443"N	80°42'20.0050"W	7.19	289.641	0.99	0.16	-102.84



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Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
1076.00	0.710	154.140	1075.96	5.07	2.08	-6.67	1723151.83	14443133.10	39°46'12.1409"N	80°42'20.0038"W	6.99	287.285	0.86	0.41	-68.09
1107.00	0.870	153.570	1106.96	4.64	1.69	-6.48	1723152.02	14443132.71	39°46'12.1371"N	80°42'20.0014"W	6.70	284.631	0.52	0.52	-1.84
1139.00	1.150	149.780	1138.95	4.08	1.20	-6.21	1723152.29	14443132.22	39°46'12.1322"N	80°42'19.9979"W	6.33	280.909	0.90	0.88	-11.84
1171.00	1.020	145.730	1170.95	3.47	0.68	-5.89	1723152.61	14443131.70	39°46'12.1271"N	80°42'19.9938"W	5.93	276.629	0.47	-0.41	-12.66
1203.00	0.820	133.900	1202.94	2.97	0.29	-5.57	1723152.94	14443131.31	39°46'12.1232"N	80°42'19.9897"W	5.57	272.988	0.86	-0.62	-36.97
1234.00	0.870	128.410	1233.94	2.54	-0.01	-5.22	1723153.28	14443131.01	39°46'12.1203"N	80°42'19.9853"W	5.22	269.896	0.31	0.16	-17.71
1265.00	0.760	110.590	1264.94	2.16	-0.23	-4.85	1723153.66	14443130.79	39°46'12.1181"N	80°42'19.9805"W	4.85	267.306	0.89	-0.35	-57.48
1296.00	0.540	64.870	1295.94	2.00	-0.24	-4.52	1723153.98	14443130.78	39°46'12.1180"N	80°42'19.9763"W	4.53	266.983	1.76	-0.71	-147.48
1328.00	0.550	6.200	1327.93	2.11	-0.02	-4.37	1723154.13	14443131.00	39°46'12.1201"N	80°42'19.9743"W	4.37	269.718	1.67	0.03	-183.34
1359.00	0.950	349.690	1358.93	2.48	0.38	-4.40	1723154.10	14443131.40	39°46'12.1241"N	80°42'19.9747"W	4.41	274.929	1.45	1.29	-53.26
1391.00	1.270	341.620	1390.93	3.07	0.98	-4.56	1723153.95	14443132.00	39°46'12.1300"N	80°42'19.9767"W	4.66	282.099	1.11	1.00	-25.22
1423.00	1.490	335.140	1422.92	3.84	1.69	-4.84	1723153.66	14443132.71	39°46'12.1371"N	80°42'19.9803"W	5.13	289.244	0.84	0.69	-20.25
1454.00	1.730	328.130	1453.90	4.71	2.45	-5.26	1723153.24	14443133.47	39°46'12.1446"N	80°42'19.9857"W	5.80	295.010	1.00	0.77	-22.61
1486.00	1.880	329.620	1485.89	5.71	3.32	-5.78	1723152.72	14443134.34	39°46'12.1532"N	80°42'19.9923"W	6.66	299.848	0.49	0.47	4.66
1518.00	1.830	330.650	1517.87	6.75	4.22	-6.30	1723152.21	14443135.23	39°46'12.1620"N	80°42'19.9989"W	7.58	303.801	0.19	-0.16	3.22
1550.00	1.840	327.200	1549.86	7.77	5.09	-6.83	1723151.68	14443136.11	39°46'12.1707"N	80°42'20.0056"W	8.52	306.727	0.35	0.03	-10.78
1582.00	1.690	321.420	1581.84	8.75	5.89	-7.40	1723151.11	14443136.91	39°46'12.1787"N	80°42'20.0129"W	9.46	308.541	0.73	-0.47	-18.06
1614.00	1.470	314.030	1613.83	9.61	6.55	-7.99	1723150.52	14443137.56	39°46'12.1851"N	80°42'20.0204"W	10.33	309.342	0.94	-0.69	-23.09
1645.00	1.470	317.860	1644.82	10.38	7.12	-8.54	1723149.96	14443138.14	39°46'12.1908"N	80°42'20.0275"W	11.12	309.813	0.32	0.00	12.35
1677.00	1.460	312.380	1676.81	11.17	7.70	-9.12	1723149.39	14443138.71	39°46'12.1966"N	80°42'20.0348"W	11.93	310.177	0.44	-0.03	-17.13
1708.00	1.620	308.850	1707.80	11.95	8.24	-9.75	1723148.75	14443139.26	39°46'12.2019"N	80°42'20.0429"W	12.76	310.200	0.60	0.52	-11.39
1740.00	1.890	304.900	1739.78	12.84	8.82	-10.53	1723147.97	14443139.84	39°46'12.2077"N	80°42'20.0529"W	13.74	309.952	0.92	0.84	-12.34
1772.00	2.220	300.510	1771.76	13.85	9.44	-11.50	1723147.00	14443140.46	39°46'12.2139"N	80°42'20.0653"W	14.88	309.382	1.14	1.03	-13.72
1803.00	2.220	292.430	1802.74	14.84	9.97	-12.57	1723145.93	14443140.99	39°46'12.2192"N	80°42'20.0790"W	16.05	308.426	1.01	0.00	-26.06
1835.00	2.160	282.290	1834.71	15.72	10.34	-13.74	1723144.77	14443141.36	39°46'12.2228"N	80°42'20.0939"W	17.19	306.971	1.22	-0.19	-31.69
1867.00	2.090	267.670	1866.69	16.39	10.44	-14.91	1723143.60	14443141.46	39°46'12.2239"N	80°42'20.1089"W	18.20	305.015	1.70	-0.22	-45.69
1898.00	2.210	264.970	1897.67	16.89	10.37	-16.07	1723142.44	14443141.38	39°46'12.2232"N	80°42'20.1237"W	19.12	302.835	0.51	0.39	-8.71
1930.00	2.460	263.480	1929.64	17.40	10.24	-17.36	1723141.14	14443141.25	39°46'12.2219"N	80°42'20.1403"W	20.16	300.520	0.80	0.78	-4.66
1961.00	2.610	263.530	1960.61	17.93	10.08	-18.73	1723139.78	14443141.10	39°46'12.2204"N	80°42'20.1578"W	21.27	298.296	0.48	0.48	0.16
1993.00	2.650	265.750	1992.58	18.53	9.94	-20.19	1723138.32	14443140.96	39°46'12.2191"N	80°42'20.1765"W	22.51	296.224	0.34	0.12	6.94



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Slot	Slot 03		

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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]
2025.00	2.410	275.240	2024.55	19.22	9.95	-21.60	1723136.91	14443140.97	39°46'12.2192"N	80°42'20.1946"W	23.78	294.740	1.51	-0.75	29.66
2057.00	2.250	280.510	2056.52	20.00	10.13	-22.88	1723135.62	14443141.14	39°46'12.2210"N	80°42'20.2110"W	25.02	293.872	0.84	-0.50	16.47
2087.00	2.220	280.690	2086.50	20.75	10.34	-24.03	1723134.48	14443141.36	39°46'12.2232"N	80°42'20.2258"W	26.17	293.284	0.10	-0.10	0.60
2118.00	2.180	286.530	2117.48	21.55	10.62	-25.19	1723133.32	14443141.64	39°46'12.2260"N	80°42'20.2405"W	27.34	292.864	0.73	-0.13	18.84
2149.00	2.320	285.670	2148.45	22.42	10.96	-26.36	1723132.15	14443141.97	39°46'12.2293"N	80°42'20.2555"W	28.55	292.576	0.46	0.45	-2.77
2181.00	2.360	285.080	2180.43	23.34	11.31	-27.62	1723130.89	14443142.32	39°46'12.2328"N	80°42'20.2716"W	29.84	292.261	0.15	0.13	-1.84
2213.00	2.390	286.920	2212.40	24.28	11.67	-28.89	1723129.62	14443142.69	39°46'12.2365"N	80°42'20.2879"W	31.16	291.996	0.26	0.09	5.75
2244.00	2.610	286.170	2243.37	25.24	12.06	-30.19	1723128.32	14443143.07	39°46'12.2403"N	80°42'20.3045"W	32.51	291.768	0.72	0.71	-2.42
2276.00	2.630	283.760	2275.34	26.26	12.43	-31.60	1723126.91	14443143.45	39°46'12.2441"N	80°42'20.3226"W	33.96	291.476	0.35	0.06	-7.53
2338.00	2.760	284.250	2337.27	28.26	13.14	-34.43	1723124.08	14443144.15	39°46'12.2512"N	80°42'20.3588"W	36.85	290.887	0.21	0.21	0.79
2369.00	2.910	286.500	2368.23	29.33	13.55	-35.91	1723122.61	14443144.56	39°46'12.2552"N	80°42'20.3777"W	38.38	290.668	0.60	0.48	7.26
2401.00	2.900	287.680	2400.19	30.51	14.02	-37.46	1723121.06	14443145.04	39°46'12.2600"N	80°42'20.3975"W	40.00	290.523	0.19	-0.03	3.69
2433.00	2.570	278.800	2432.15	31.54	14.38	-38.94	1723119.58	14443145.39	39°46'12.2635"N	80°42'20.4165"W	41.51	290.267	1.68	-1.03	-27.75
2465.00	2.230	263.540	2464.12	32.22	14.42	-40.27	1723118.25	14443145.43	39°46'12.2640"N	80°42'20.4335"W	42.77	289.701	2.25	-1.06	-47.69
2496.00	2.160	257.150	2495.10	32.62	14.22	-41.44	1723117.08	14443145.23	39°46'12.2621"N	80°42'20.4484"W	43.81	288.942	0.82	-0.23	-20.61
2528.00	2.020	261.480	2527.08	32.99	14.00	-42.58	1723115.94	14443145.02	39°46'12.2600"N	80°42'20.4631"W	44.82	288.203	0.66	-0.44	13.53
2560.00	1.550	279.870	2559.06	33.46	13.99	-43.57	1723114.95	14443145.01	39°46'12.2599"N	80°42'20.4757"W	45.76	287.807	2.30	-1.47	57.47
2592.00	1.450	298.470	2591.05	34.07	14.26	-44.35	1723114.17	14443145.27	39°46'12.2626"N	80°42'20.4857"W	46.58	287.826	1.55	-0.31	58.12
2623.00	1.540	301.070	2622.04	34.77	14.66	-45.05	1723113.47	14443145.68	39°46'12.2666"N	80°42'20.4947"W	47.38	288.029	0.36	0.29	8.39
2655.00	1.500	300.010	2654.03	35.50	15.09	-45.78	1723112.74	14443146.11	39°46'12.2708"N	80°42'20.5040"W	48.20	288.247	0.15	-0.12	-3.31
2687.00	1.520	296.460	2686.02	36.21	15.49	-46.52	1723112.00	14443146.51	39°46'12.2748"N	80°42'20.5135"W	49.03	288.418	0.30	0.06	-11.09
2719.00	1.550	291.550	2718.01	36.89	15.84	-47.31	1723111.21	14443146.85	39°46'12.2783"N	80°42'20.5235"W	49.89	288.513	0.42	0.09	-15.34
2750.00	1.490	289.580	2749.00	37.52	16.13	-48.07	1723110.44	14443147.14	39°46'12.2811"N	80°42'20.5334"W	50.71	288.547	0.26	-0.19	-6.35
2782.00	1.420	287.340	2780.99	38.12	16.39	-48.85	1723109.67	14443147.40	39°46'12.2837"N	80°42'20.5433"W	51.52	288.546	0.28	-0.22	-7.00
2812.00	1.300	288.720	2810.98	38.64	16.61	-49.52	1723109.00	14443147.62	39°46'12.2859"N	80°42'20.5519"W	52.23	288.539	0.41	-0.40	4.60
2843.00	1.170	286.370	2841.97	39.13	16.81	-50.16	1723108.36	14443147.82	39°46'12.2879"N	80°42'20.5601"W	52.90	288.527	0.45	-0.42	-7.58
2875.00	1.150	284.450	2873.97	39.59	16.98	-50.78	1723107.74	14443147.99	39°46'12.2897"N	80°42'20.5680"W	53.55	288.489	0.14	-0.06	-6.00
2907.00	1.090	285.640	2905.96	40.02	17.14	-51.39	1723107.13	14443148.16	39°46'12.2913"N	80°42'20.5758"W	54.17	288.449	0.20	-0.19	3.72
2937.00	1.010	285.220	2935.95	40.41	17.29	-51.92	1723106.60	14443148.30	39°46'12.2927"N	80°42'20.5826"W	54.72	288.419	0.27	-0.27	-1.40
2969.00	1.340	288.140	2967.95	40.88	17.48	-52.55	1723105.98	14443148.49	39°46'12.2946"N	80°42'20.5906"W	55.38	288.401	1.05	1.03	9.12

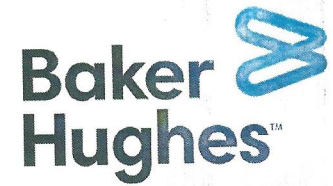
NOV 12 2024

WV Department of  
Environmental Protection

# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
3001.00	2.030	292.840	2999.93	41.60	17.82	-53.42	1723105.10	14443148.83	39°46'12.2980"N	80°42'20.6018"W	56.32	288.444	2.20	2.16	14.69
3032.00	2.240	295.370	3030.91	42.53	18.29	-54.48	1723104.04	14443149.30	39°46'12.3027"N	80°42'20.6153"W	57.46	288.559	0.74	0.68	8.16
3064.00	2.180	294.770	3062.89	43.53	18.81	-55.59	1723102.93	14443149.83	39°46'12.3079"N	80°42'20.6296"W	58.69	288.695	0.20	-0.19	-1.88
3096.00	2.140	291.920	3094.87	44.49	19.29	-56.70	1723101.82	14443150.30	39°46'12.3127"N	80°42'20.6437"W	59.89	288.789	0.36	-0.13	-8.91
3127.00	2.010	291.250	3125.85	45.36	19.70	-57.74	1723100.78	14443150.72	39°46'12.3168"N	80°42'20.6571"W	61.01	288.841	0.43	-0.42	-2.16
3159.00	2.360	297.160	3157.82	46.34	20.21	-58.85	1723099.67	14443151.22	39°46'12.3218"N	80°42'20.6713"W	62.23	288.950	1.30	1.09	18.47
3191.00	3.350	307.340	3189.78	47.74	21.08	-60.18	1723098.34	14443152.09	39°46'12.3304"N	80°42'20.6883"W	63.77	289.300	3.46	3.09	31.81
3222.00	4.130	311.800	3220.72	49.63	22.37	-61.74	1723096.79	14443153.38	39°46'12.3433"N	80°42'20.7081"W	65.66	289.917	2.68	2.52	14.39
3254.00	4.180	313.380	3252.63	51.83	23.94	-63.44	1723095.08	14443154.95	39°46'12.3588"N	80°42'20.7299"W	67.81	290.673	0.39	0.16	4.94
3285.00	4.140	319.670	3283.55	54.01	25.57	-64.99	1723093.54	14443156.58	39°46'12.3750"N	80°42'20.7496"W	69.84	291.475	1.48	-0.13	20.29
3317.00	4.070	330.980	3315.47	56.28	27.44	-66.29	1723092.24	14443158.45	39°46'12.3935"N	80°42'20.7661"W	71.74	292.488	2.54	-0.22	35.34
3349.00	4.020	332.660	3347.39	58.53	29.43	-67.35	1723091.17	14443160.44	39°46'12.4132"N	80°42'20.7797"W	73.50	293.603	0.40	-0.16	5.25
3381.00	3.900	332.960	3379.31	60.74	31.40	-68.36	1723090.16	14443162.40	39°46'12.4327"N	80°42'20.7926"W	75.23	294.667	0.38	-0.37	0.94
3412.00	3.990	339.130	3410.24	62.86	33.34	-69.23	1723089.30	14443164.35	39°46'12.4519"N	80°42'20.8035"W	76.84	295.718	1.40	0.29	19.90
3444.00	4.830	350.780	3442.15	65.23	35.71	-69.84	1723088.69	14443166.72	39°46'12.4754"N	80°42'20.8113"W	78.44	297.084	3.82	2.62	36.41
3476.00	5.620	352.860	3474.01	67.95	38.60	-70.25	1723088.28	14443169.60	39°46'12.5039"N	80°42'20.8164"W	80.15	298.786	2.54	2.47	6.50
3507.00	6.250	354.700	3504.85	70.90	41.78	-70.59	1723087.93	14443172.79	39°46'12.5354"N	80°42'20.8207"W	82.03	300.621	2.12	2.03	5.94
3539.00	7.350	355.080	3536.62	74.36	45.56	-70.93	1723087.60	14443176.56	39°46'12.5727"N	80°42'20.8249"W	84.30	302.712	3.44	3.44	1.19
3571.00	8.660	354.250	3568.31	78.44	49.99	-71.35	1723087.18	14443180.99	39°46'12.6166"N	80°42'20.8300"W	87.12	305.020	4.11	4.09	-2.59
3602.00	10.010	352.580	3598.90	83.08	54.99	-71.93	1723086.60	14443185.99	39°46'12.6660"N	80°42'20.8372"W	90.54	307.397	4.44	4.35	-5.39
3634.00	10.680	350.140	3630.38	88.46	60.67	-72.80	1723085.73	14443191.66	39°46'12.7221"N	80°42'20.8481"W	94.76	309.808	2.50	2.09	-7.63
3666.00	10.780	348.590	3661.82	94.11	66.52	-73.90	1723084.63	14443197.52	39°46'12.7800"N	80°42'20.8620"W	99.43	311.994	0.95	0.31	-4.84
3697.00	10.920	345.120	3692.26	99.71	72.20	-75.22	1723083.31	14443203.19	39°46'12.8362"N	80°42'20.8787"W	104.27	313.826	2.15	0.45	-11.19
3729.00	10.800	341.060	3723.69	105.60	77.97	-76.97	1723081.56	14443208.96	39°46'12.8932"N	80°42'20.9009"W	109.56	315.367	2.42	-0.38	-12.69
3760.00	10.800	337.370	3754.14	111.35	83.40	-79.03	1723079.50	14443214.38	39°46'12.9469"N	80°42'20.9271"W	114.90	316.538	2.23	0.00	-11.90
3792.00	10.610	336.590	3785.58	117.26	88.87	-81.36	1723077.17	14443219.85	39°46'13.0011"N	80°42'20.9566"W	120.48	317.525	0.75	-0.59	-2.44
3822.00	10.390	336.120	3815.08	122.70	93.87	-83.55	1723074.98	14443224.86	39°46'13.0506"N	80°42'20.9845"W	125.67	318.330	0.79	-0.73	-1.57
3854.00	10.200	336.140	3846.57	128.39	99.10	-85.87	1723072.67	14443230.08	39°46'13.1024"N	80°42'21.0139"W	131.13	319.094	0.59	-0.59	0.06
3885.00	10.130	335.750	3877.08	133.84	104.10	-88.10	1723070.44	14443235.08	39°46'13.1518"N	80°42'21.0422"W	136.37	319.760	0.32	-0.23	-1.26
3917.00	9.640	335.670	3908.61	139.31	109.11	-90.36	1723068.18	14443240.08	39°46'13.2014"N	80°42'21.0710"W	141.66	320.371	1.53	-1.53	-0.25



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# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
3948.00	8.440	333.470	3939.22	144.17	113.51	-92.44	1723066.10	14443244.48	39°46'13.2449"N	80°42'21.0975"W	146.39	320.841	4.03	-3.87	-7.10
3980.00	8.080	333.960	3970.89	148.76	117.63	-94.48	1723064.06	14443248.60	39°46'13.2857"N	80°42'21.1234"W	150.87	321.229	1.15	-1.13	1.53
4012.00	7.960	334.700	4002.57	153.22	121.65	-96.41	1723062.13	14443252.63	39°46'13.3256"N	80°42'21.1480"W	155.22	321.603	0.49	-0.38	2.31
4043.00	8.060	333.310	4033.27	157.53	125.54	-98.30	1723060.23	14443256.51	39°46'13.3640"N	80°42'21.1721"W	159.45	321.936	0.70	0.32	-4.48
4075.00	8.160	333.450	4064.95	162.04	129.57	-100.33	1723058.21	14443260.54	39°46'13.4040"N	80°42'21.1978"W	163.87	322.249	0.32	0.31	0.44
4106.00	8.120	333.030	4095.64	166.43	133.49	-102.30	1723056.24	14443264.46	39°46'13.4427"N	80°42'21.2230"W	168.18	322.534	0.23	-0.13	-1.35
4138.00	8.120	332.220	4127.32	170.95	137.50	-104.38	1723054.16	14443268.47	39°46'13.4825"N	80°42'21.2494"W	172.64	322.797	0.36	0.00	-2.53
4169.00	7.980	332.380	4158.01	175.29	141.35	-106.40	1723052.14	14443272.31	39°46'13.5205"N	80°42'21.2751"W	176.92	323.029	0.46	-0.45	0.52
4201.00	7.850	331.690	4189.71	179.69	145.24	-108.47	1723050.08	14443276.20	39°46'13.5591"N	80°42'21.3014"W	181.27	323.247	0.50	-0.41	-2.16
4232.00	7.710	331.790	4220.42	183.89	148.94	-110.45	1723048.09	14443279.90	39°46'13.5957"N	80°42'21.3267"W	185.42	323.439	0.45	-0.45	0.32
4263.00	7.720	334.370	4251.14	188.04	152.65	-112.34	1723046.21	14443283.61	39°46'13.6324"N	80°42'21.3506"W	189.53	323.650	1.12	0.03	8.32
4295.00	7.650	340.210	4282.86	192.29	156.59	-113.99	1723044.56	14443287.55	39°46'13.6714"N	80°42'21.3716"W	193.68	323.947	2.45	-0.22	18.25
4326.00	7.780	342.160	4313.58	196.38	160.53	-115.33	1723043.22	14443291.48	39°46'13.7104"N	80°42'21.3886"W	197.66	324.305	0.94	0.42	6.29
4358.00	7.750	341.720	4345.28	200.63	164.64	-116.67	1723041.88	14443295.59	39°46'13.7510"N	80°42'21.4056"W	201.78	324.677	0.21	-0.09	-1.37
4390.00	7.720	342.690	4376.99	204.85	168.74	-117.99	1723040.56	14443299.69	39°46'13.7916"N	80°42'21.4223"W	205.90	325.038	0.42	-0.09	3.03
4503.00	9.780	342.840	4488.67	221.66	185.16	-123.08	1723035.47	14443316.10	39°46'13.9540"N	80°42'21.4868"W	222.33	326.387	1.82	1.82	0.13
4598.00	11.180	338.310	4582.08	238.69	201.42	-128.86	1723029.69	14443332.36	39°46'14.1150"N	80°42'21.5602"W	239.12	327.391	1.71	1.47	-4.77
4694.00	14.510	338.850	4675.67	259.83	221.29	-136.64	1723021.91	14443352.23	39°46'14.3116"N	80°42'21.6590"W	260.08	328.306	3.47	3.47	0.56
4789.00	16.060	338.610	4767.31	284.64	244.63	-145.73	1723012.83	14443375.55	39°46'14.5425"N	80°42'21.7744"W	284.75	329.217	1.63	1.63	-0.25
4884.00	19.130	338.720	4857.85	313.08	271.38	-156.17	1723002.39	14443402.29	39°46'14.8072"N	80°42'21.9071"W	313.11	330.080	3.23	3.23	0.12
4979.00	21.800	338.670	4946.85	345.98	302.32	-168.24	1722990.32	14443433.22	39°46'15.1134"N	80°42'22.0603"W	345.98	330.904	2.81	2.81	-0.05
5074.00	24.930	338.770	5034.05	383.29	337.42	-181.91	1722976.66	14443468.31	39°46'15.4607"N	80°42'22.2339"W	383.34	331.670	3.30	3.29	0.11
5169.00	27.380	337.310	5119.31	424.83	376.25	-197.57	1722961.01	14443507.13	39°46'15.8450"N	80°42'22.4328"W	424.97	332.296	2.66	2.58	-1.47
5264.00	30.790	337.510	5202.32	470.70	418.90	-215.28	1722943.30	14443549.75	39°46'16.2670"N	80°42'22.6578"W	470.98	332.800	3.59	3.59	0.15
5359.00	33.190	337.430	5282.89	520.68	465.38	-234.56	1722924.03	14443596.22	39°46'16.7270"N	80°42'22.9029"W	521.15	333.251	2.53	2.53	-0.08
5454.00	35.890	337.420	5361.13	574.18	515.11	-255.24	1722903.36	14443645.93	39°46'17.2191"N	80°42'23.1656"W	574.88	333.641	2.84	2.84	-0.01
5549.00	37.300	340.000	5437.41	630.27	567.88	-275.78	1722882.83	14443698.67	39°46'17.7413"N	80°42'23.4264"W	631.30	334.097	2.20	1.48	2.72
5644.00	37.970	342.530	5512.65	687.30	622.81	-294.40	1722864.22	14443753.58	39°46'18.2847"N	80°42'23.6625"W	688.88	334.700	1.77	0.71	2.66
5739.00	38.040	342.670	5587.50	744.56	678.62	-311.89	1722846.73	14443809.38	39°46'18.8369"N	80°42'23.8842"W	746.86	335.317	0.12	0.07	0.15
5834.00	38.180	342.870	5662.25	801.93	734.62	-329.26	1722829.37	14443865.35	39°46'19.3909"N	80°42'24.1043"W	805.04	335.858	0.20	0.15	0.21

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# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
5929.00	38.050	342.690	5736.99	859.29	790.63	-346.62	1722812.02	14443921.34	39°46'19.9450"N	80°42'24.3243"W	863.28	336.327	0.18	-0.14	-0.19
6024.00	38.090	342.460	5811.78	916.64	846.52	-364.16	1722794.48	14443977.21	39°46'20.4979"N	80°42'24.5466"W	921.53	336.723	0.16	0.04	-0.24
6118.00	38.150	342.870	5885.74	973.43	901.92	-381.45	1722777.20	14444032.58	39°46'21.0459"N	80°42'24.7657"W	979.26	337.075	0.28	0.06	0.44
6212.00	38.090	342.850	5959.69	1030.18	957.37	-398.55	1722760.11	14444088.01	39°46'21.5944"N	80°42'24.9824"W	1037.01	337.398	0.07	-0.06	-0.02
6307.00	44.530	338.660	6031.02	1091.92	1016.47	-419.34	1722739.33	14444147.08	39°46'22.1792"N	80°42'25.2462"W	1099.57	337.582	7.37	6.78	-4.41
6402.00	52.780	336.580	6093.73	1162.68	1082.32	-446.54	1722712.13	14444212.91	39°46'22.8309"N	80°42'25.5918"W	1170.82	337.580	8.84	8.68	-2.19
6497.00	61.400	333.370	6145.30	1242.14	1154.46	-480.34	1722678.35	14444285.02	39°46'23.5449"N	80°42'26.0216"W	1250.40	337.409	9.50	9.07	-3.38
6592.00	69.750	333.490	6184.55	1328.47	1231.75	-518.99	1722639.71	14444362.29	39°46'24.3100"N	80°42'26.5134"W	1336.63	337.152	8.79	8.79	0.13
6687.00	77.420	333.800	6211.38	1419.42	1313.35	-559.41	1722599.31	14444443.85	39°46'25.1177"N	80°42'27.0277"W	1427.53	336.929	8.08	8.07	0.33
6782.00	86.080	332.640	6225.00	1513.26	1397.20	-601.74	1722556.99	14444527.67	39°46'25.9477"N	80°42'27.5663"W	1521.27	336.700	9.20	9.12	-1.22
6877.00	89.530	331.450	6228.64	1608.16	1481.04	-646.24	1722512.52	14444611.47	39°46'26.7777"N	80°42'28.1327"W	1615.89	336.426	3.84	3.63	-1.25
6971.00	89.530	331.480	6229.41	1702.15	1563.61	-691.14	1722467.63	14444694.02	39°46'27.5952"N	80°42'28.7043"W	1709.55	336.154	0.03	0.00	0.03
7067.00	90.270	329.950	6229.58	1798.14	1647.34	-738.10	1722420.69	14444777.71	39°46'28.4242"N	80°42'29.3022"W	1805.14	335.865	1.77	0.77	-1.59
7162.00	90.430	329.740	6228.99	1893.13	1729.48	-785.82	1722372.99	14444859.82	39°46'29.2375"N	80°42'29.9100"W	1899.64	335.565	0.28	0.17	-0.22
7257.00	90.150	330.410	6228.51	1988.12	1811.82	-833.21	1722325.62	14444942.12	39°46'30.0527"N	80°42'30.5135"W	1994.22	335.304	0.76	-0.29	0.71
7352.00	90.860	330.220	6227.68	2083.11	1894.35	-880.25	1722278.59	14445024.62	39°46'30.8698"N	80°42'31.1126"W	2088.87	335.077	0.77	0.75	-0.20
7446.00	90.000	327.830	6226.97	2177.05	1974.93	-928.63	1722230.24	14445105.17	39°46'31.6678"N	80°42'31.7288"W	2182.36	334.817	2.70	-0.91	-2.54
7636.00	90.490	329.100	6226.16	2366.89	2136.87	-1028.00	1722130.91	14445267.05	39°46'33.2713"N	80°42'32.9948"W	2371.28	334.309	0.72	0.26	0.67
7731.00	90.150	329.040	6225.63	2461.84	2218.36	-1076.83	1722082.10	14445348.50	39°46'34.0782"N	80°42'33.6168"W	2465.90	334.107	0.36	-0.36	-0.06
7825.00	90.270	330.080	6225.28	2555.82	2299.40	-1124.45	1722034.49	14445429.51	39°46'34.8806"N	80°42'34.2234"W	2559.61	333.941	1.11	0.13	1.11
7920.00	90.020	329.890	6225.04	2650.81	2381.66	-1171.97	1721986.99	14445511.74	39°46'35.6951"N	80°42'34.8286"W	2654.39	333.799	0.33	-0.26	-0.20
8015.00	89.870	330.190	6225.13	2745.80	2463.96	-1219.41	1721939.57	14445594.01	39°46'36.5100"N	80°42'35.4328"W	2749.20	333.669	0.35	-0.16	0.32
8110.00	90.060	330.150	6225.19	2840.79	2546.38	-1266.67	1721892.33	14445676.39	39°46'37.3260"N	80°42'36.0346"W	2844.03	333.552	0.20	0.20	-0.04
8205.00	89.960	330.110	6225.18	2935.78	2628.76	-1313.98	1721845.04	14445758.74	39°46'38.1416"N	80°42'36.6372"W	2938.86	333.442	0.11	-0.11	-0.04
8300.00	90.550	331.330	6224.75	3030.78	2711.62	-1360.44	1721798.59	14445841.57	39°46'38.9620"N	80°42'37.2289"W	3033.75	333.357	1.43	0.62	1.28
8395.00	89.960	330.780	6224.33	3125.78	2794.75	-1406.42	1721752.64	14445924.67	39°46'39.7850"N	80°42'37.8143"W	3128.68	333.287	0.85	-0.62	-0.58
8585.00	89.750	329.840	6224.81	3315.77	2959.80	-1500.53	1721658.57	14446089.66	39°46'41.4192"N	80°42'39.0128"W	3318.43	333.116	0.51	-0.11	-0.49
8680.00	89.690	330.220	6225.28	3410.76	3042.10	-1547.98	1721611.13	14446171.92	39°46'42.2340"N	80°42'39.6172"W	3413.30	333.031	0.40	-0.06	0.40
8775.00	89.630	330.180	6225.84	3505.75	3124.53	-1595.19	1721563.94	14446254.32	39°46'43.0502"N	80°42'40.2185"W	3508.18	332.954	0.08	-0.06	-0.04
8869.00	89.870	331.530	6226.25	3599.75	3206.63	-1640.97	1721518.18	14446336.39	39°46'43.8630"N	80°42'40.8015"W	3602.12	332.899	1.46	0.26	1.44



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# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
9059.00	89.690	330.290	6226.98	3789.74	3372.66	-1733.34	1721425.84	14446502.35	39°46'45.5067"N	80°42'41.9778"W	3792.01	332.800	0.66	-0.09	-0.65
9154.00	89.630	330.010	6227.54	3884.73	3455.05	-1780.63	1721378.57	14446584.71	39°46'46.3225"N	80°42'42.5800"W	3886.90	332.735	0.30	-0.06	-0.29
9249.00	90.060	330.500	6227.80	3979.73	3537.54	-1827.76	1721331.46	14446667.16	39°46'47.1392"N	80°42'43.1803"W	3981.82	332.676	0.69	0.45	0.52
9344.00	89.900	330.220	6227.83	4074.73	3620.10	-1874.74	1721284.50	14446749.70	39°46'47.9567"N	80°42'43.7787"W	4076.74	332.622	0.34	-0.17	-0.29
9439.00	89.990	329.520	6227.92	4169.71	3702.27	-1922.43	1721236.83	14446831.83	39°46'48.7702"N	80°42'44.3861"W	4171.63	332.559	0.74	0.09	-0.74
9534.00	89.930	330.130	6227.99	4264.70	3784.40	-1970.18	1721189.10	14446913.92	39°46'49.5833"N	80°42'44.9943"W	4266.53	332.498	0.65	-0.06	0.64
9629.00	89.840	330.060	6228.18	4359.69	3866.75	-2017.54	1721141.75	14446996.24	39°46'50.3987"N	80°42'45.5976"W	4361.45	332.446	0.12	-0.09	-0.07
9818.00	90.330	329.950	6227.90	4548.67	4030.43	-2112.03	1721047.30	14447159.86	39°46'52.0193"N	80°42'46.8011"W	4550.28	332.345	0.27	0.26	-0.06
9913.00	90.240	330.450	6227.43	4643.66	4112.87	-2159.24	1721000.11	14447242.27	39°46'52.8355"N	80°42'47.4025"W	4645.21	332.301	0.53	-0.09	0.53
10008.00	91.230	328.920	6226.21	4738.63	4194.87	-2207.19	1720952.18	14447324.24	39°46'53.6474"N	80°42'48.0132"W	4740.10	332.248	1.92	1.04	-1.61
10103.00	89.620	329.930	6225.50	4833.60	4276.65	-2255.50	1720903.88	14447405.99	39°46'54.4572"N	80°42'48.6288"W	4834.98	332.193	2.00	-1.69	1.06
10199.00	89.440	330.220	6226.29	4929.59	4359.85	-2303.39	1720856.01	14447489.15	39°46'55.2809"N	80°42'49.2388"W	4930.92	332.152	0.36	-0.19	0.30
10294.00	90.080	329.640	6226.69	5024.57	4442.07	-2350.99	1720808.43	14447571.33	39°46'56.0949"N	80°42'49.8451"W	5025.84	332.110	0.91	0.67	-0.61
10389.00	90.330	328.290	6226.35	5119.52	4523.46	-2399.97	1720759.48	14447652.70	39°46'56.9009"N	80°42'50.4691"W	5120.70	332.051	1.45	0.26	-1.42
10485.00	90.360	329.920	6225.77	5215.47	4605.84	-2449.26	1720710.20	14447735.04	39°46'57.7165"N	80°42'51.0971"W	5216.57	331.997	1.70	0.03	1.70
10580.00	90.210	329.750	6225.30	5310.46	4687.97	-2497.00	1720662.49	14447817.14	39°46'58.5297"N	80°42'51.7052"W	5311.50	331.958	0.24	-0.16	-0.18
10675.00	90.240	329.920	6224.93	5405.44	4770.11	-2544.73	1720614.77	14447899.25	39°46'59.3429"N	80°42'52.3133"W	5406.44	331.921	0.18	0.03	0.18
10770.00	90.180	329.830	6224.58	5500.43	4852.27	-2592.41	1720567.11	14447981.38	39°47'0.1565"N	80°42'52.9207"W	5501.38	331.886	0.11	-0.06	-0.09
10864.00	90.150	329.990	6224.31	5594.42	4933.61	-2639.54	1720520.00	14448062.68	39°47'0.9617"N	80°42'53.5211"W	5595.32	331.853	0.17	-0.03	0.17
10959.00	90.110	330.350	6224.09	5689.41	5016.02	-2686.80	1720472.76	14448145.06	39°47'1.7777"N	80°42'54.1230"W	5690.28	331.825	0.38	-0.04	0.38
11054.00	90.240	331.290	6223.80	5784.41	5098.96	-2733.11	1720426.46	14448227.97	39°47'2.5988"N	80°42'54.7129"W	5785.27	331.808	1.00	0.14	0.99
11149.00	89.930	329.980	6223.66	5879.40	5181.75	-2779.70	1720379.90	14448310.73	39°47'3.4185"N	80°42'55.3063"W	5880.25	331.789	1.42	-0.33	-1.38
11243.00	90.050	330.300	6223.68	5973.40	5263.27	-2826.50	1720333.12	14448392.22	39°47'4.2256"N	80°42'55.9024"W	5974.21	331.763	0.36	0.13	0.34
11338.00	90.140	330.700	6223.52	6068.40	5345.96	-2873.28	1720286.35	14448474.87	39°47'5.0442"N	80°42'56.4983"W	6069.18	331.743	0.43	0.09	0.42
11434.00	90.080	330.410	6223.34	6164.39	5429.56	-2920.47	1720239.18	14448558.44	39°47'5.8719"N	80°42'57.0994"W	6165.16	331.725	0.31	-0.06	-0.30
11529.00	90.150	330.450	6223.14	6259.39	5512.18	-2967.35	1720192.32	14448641.03	39°47'6.6899"N	80°42'57.6966"W	6260.14	331.705	0.08	0.07	0.04
11624.00	90.550	330.490	6222.56	6354.39	5594.84	-3014.17	1720145.51	14448723.66	39°47'7.5082"N	80°42'58.2930"W	6355.12	331.687	0.42	0.42	0.04
11719.00	90.760	331.180	6221.48	6449.38	5677.79	-3060.47	1720099.24	14448806.57	39°47'8.3295"N	80°42'58.8826"W	6450.10	331.674	0.76	0.22	0.73
11814.00	90.760	330.420	6220.22	6544.37	5760.71	-3106.81	1720052.92	14448889.46	39°47'9.1504"N	80°42'59.4729"W	6545.08	331.662	0.80	0.00	-0.80
11909.00	89.990	330.160	6219.60	6639.37	5843.22	-3153.89	1720005.85	14448971.94	39°47'9.9673"N	80°43'0.0726"W	6640.05	331.642	0.86	-0.81	-0.27





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# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
12003.00	90.210	330.220	6219.43	6733.36	5924.78	-3200.62	1719959.14	14449053.47	39°47'10.7748"N	80°43'0.6679"W	6734.02	331.622	0.24	0.23	0.06
12098.00	89.870	329.270	6219.37	6828.34	6006.84	-3248.49	1719911.30	14449135.49	39°47'11.5872"N	80°43'1.2777"W	6828.97	331.596	1.06	-0.36	-1.00
12193.00	90.110	330.430	6219.38	6923.33	6088.99	-3296.20	1719863.60	14449217.61	39°47'12.4005"N	80°43'1.8856"W	6923.92	331.572	1.25	0.25	1.22
12288.00	89.990	329.600	6219.30	7018.32	6171.27	-3343.68	1719816.14	14449299.86	39°47'13.2152"N	80°43'2.4905"W	7018.89	331.551	0.88	-0.13	-0.87
12383.00	90.020	329.680	6219.29	7113.30	6253.24	-3391.69	1719768.14	14449381.80	39°47'14.0268"N	80°43'3.1022"W	7113.83	331.525	0.09	0.03	0.08
12478.00	90.240	330.500	6219.08	7208.29	6335.59	-3439.06	1719720.79	14449464.11	39°47'14.8421"N	80°43'3.7057"W	7208.80	331.506	0.89	0.23	0.86
12574.00	89.930	329.990	6218.93	7304.28	6418.93	-3486.71	1719673.17	14449547.42	39°47'15.6672"N	80°43'4.3127"W	7304.78	331.490	0.62	-0.32	-0.53
12669.00	90.110	330.280	6218.90	7399.27	6501.32	-3534.01	1719625.88	14449629.77	39°47'16.4828"N	80°43'4.9153"W	7399.75	331.472	0.36	0.19	0.31
12764.00	89.960	330.070	6218.84	7494.27	6583.73	-3581.26	1719578.65	14449712.16	39°47'17.2988"N	80°43'5.5173"W	7494.73	331.456	0.27	-0.16	-0.22
12859.00	89.960	330.030	6218.91	7589.26	6666.05	-3628.69	1719531.24	14449794.44	39°47'18.1138"N	80°43'6.1215"W	7589.70	331.438	0.04	0.00	-0.04
12954.00	90.020	330.010	6218.93	7684.25	6748.34	-3676.16	1719483.79	14449876.70	39°47'18.9285"N	80°43'6.7263"W	7684.67	331.421	0.07	0.06	-0.02
13049.00	90.210	330.350	6218.73	7779.24	6830.76	-3723.40	1719436.57	14449959.08	39°47'19.7445"N	80°43'7.3282"W	7779.65	331.405	0.41	0.20	0.36
13144.00	89.930	330.050	6218.62	7874.24	6913.19	-3770.61	1719389.37	14450041.49	39°47'20.5606"N	80°43'7.9296"W	7874.63	331.391	0.43	-0.29	-0.32
13239.00	89.650	330.110	6218.97	7969.23	6995.53	-3818.00	1719342.01	14450123.80	39°47'21.3758"N	80°43'8.5333"W	7969.60	331.375	0.30	-0.29	0.06
13334.00	89.650	330.230	6219.55	8064.22	7077.94	-3865.25	1719294.77	14450206.17	39°47'22.1917"N	80°43'9.1354"W	8064.58	331.361	0.13	0.00	0.13
13429.00	89.710	330.560	6220.08	8159.22	7160.54	-3912.19	1719247.86	14450288.74	39°47'23.0095"N	80°43'9.7333"W	8159.57	331.350	0.35	0.06	0.35
13524.00	89.840	330.340	6220.45	8254.22	7243.18	-3959.04	1719201.02	14450371.35	39°47'23.8276"N	80°43'10.3301"W	8254.55	331.340	0.27	0.14	-0.23
13619.00	89.560	329.550	6220.95	8349.20	7325.41	-4006.61	1719153.46	14450453.54	39°47'24.6417"N	80°43'10.9363"W	8349.52	331.324	0.88	-0.29	-0.83
13714.00	89.620	329.960	6221.63	8444.18	7407.47	-4054.46	1719105.63	14450535.57	39°47'25.4542"N	80°43'11.5460"W	8444.49	331.306	0.44	0.06	0.43
13809.00	89.620	330.210	6222.26	8539.17	7489.81	-4101.84	1719058.27	14450617.88	39°47'26.2694"N	80°43'12.1496"W	8539.46	331.292	0.26	0.00	0.26
13904.00	89.740	330.820	6222.79	8634.17	7572.51	-4148.60	1719011.54	14450700.54	39°47'27.0881"N	80°43'12.7453"W	8634.45	331.284	0.65	0.13	0.64
13999.00	89.530	329.140	6223.39	8729.15	7654.76	-4196.13	1718964.03	14450782.76	39°47'27.9024"N	80°43'13.3509"W	8729.42	331.270	1.78	-0.22	-1.77
14094.00	89.710	330.580	6224.02	8824.14	7736.91	-4243.82	1718916.35	14450864.88	39°47'28.7158"N	80°43'13.9586"W	8824.39	331.255	1.53	0.19	1.52
14189.00	89.770	330.340	6224.45	8919.13	7819.56	-4290.66	1718869.53	14450947.50	39°47'29.5340"N	80°43'14.5554"W	8919.38	331.246	0.26	0.06	-0.25
14284.00	89.960	330.020	6224.68	9014.13	7901.98	-4337.90	1718822.31	14451029.89	39°47'30.3500"N	80°43'15.1573"W	9014.36	331.235	0.39	0.20	-0.34
14379.00	89.900	330.360	6224.79	9109.12	7984.41	-4385.13	1718775.10	14451112.29	39°47'31.1661"N	80°43'15.7590"W	9109.35	331.224	0.36	-0.06	0.36
14474.00	89.960	330.340	6224.91	9204.12	8066.97	-4432.13	1718728.12	14451194.81	39°47'31.9835"N	80°43'16.3577"W	9204.34	331.215	0.07	0.06	-0.02
14569.00	89.960	330.030	6224.98	9299.11	8149.40	-4479.36	1718680.91	14451277.21	39°47'32.7995"N	80°43'16.9596"W	9299.32	331.204	0.33	0.00	-0.33
14664.00	89.900	330.210	6225.09	9394.10	8231.77	-4526.69	1718633.60	14451359.55	39°47'33.6150"N	80°43'17.5626"W	9394.30	331.193	0.20	-0.06	0.19
14759.00	89.870	330.290	6225.28	9489.10	8314.25	-4573.83	1718586.47	14451441.99	39°47'34.4316"N	80°43'18.1632"W	9489.29	331.184	0.09	-0.03	0.08



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# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
14854.00	90.110	330.210	6225.30	9584.09	8396.73	-4620.97	1718539.35	14451524.44	39°47'35.2481"N	80°43'18.7638"W	9584.28	331.175	0.27	0.25	-0.08
14949.00	90.170	330.140	6225.07	9679.09	8479.15	-4668.22	1718492.12	14451606.82	39°47'36.0641"N	80°43'19.3659"W	9679.26	331.165	0.10	0.06	-0.07
15043.00	90.270	330.510	6224.71	9773.08	8560.82	-4714.75	1718445.60	14451688.46	39°47'36.8726"N	80°43'19.9588"W	9773.25	331.157	0.41	0.11	0.39
15139.00	90.300	330.170	6224.23	9869.08	8644.24	-4762.26	1718398.12	14451771.85	39°47'37.6985"N	80°43'20.5641"W	9869.24	331.149	0.36	0.03	-0.35
15234.00	90.170	329.600	6223.84	9964.07	8726.41	-4809.92	1718350.47	14451853.99	39°47'38.5121"N	80°43'21.1715"W	9964.22	331.137	0.62	-0.14	-0.60
15329.00	90.270	329.670	6223.48	10059.04	8808.38	-4857.95	1718302.47	14451935.93	39°47'39.3236"N	80°43'21.7834"W	10059.18	331.123	0.13	0.11	0.07
15424.00	90.200	330.040	6223.09	10154.03	8890.53	-4905.65	1718254.78	14452018.05	39°47'40.1369"N	80°43'22.3914"W	10154.16	331.111	0.40	-0.07	0.39
15519.00	90.360	330.400	6222.62	10249.02	8972.98	-4952.84	1718207.62	14452100.47	39°47'40.9532"N	80°43'22.9926"W	10249.15	331.103	0.41	0.17	0.38
15614.00	90.080	330.310	6222.26	10344.02	9055.55	-4999.83	1718160.65	14452183.00	39°47'41.7706"N	80°43'23.5913"W	10344.14	331.096	0.31	-0.29	-0.09
15710.00	90.140	330.450	6222.07	10440.02	9139.00	-5047.27	1718113.22	14452266.42	39°47'42.5968"N	80°43'24.1959"W	10440.13	331.089	0.16	0.06	0.15
15804.00	90.050	330.100	6221.92	10534.01	9220.63	-5093.88	1718066.63	14452348.02	39°47'43.4050"N	80°43'24.7898"W	10534.12	331.082	0.38	-0.10	-0.37
15899.00	90.080	329.800	6221.81	10629.00	9302.86	-5141.45	1718019.07	14452430.22	39°47'44.2191"N	80°43'25.3960"W	10629.10	331.072	0.32	0.03	-0.32
15994.00	90.020	329.620	6221.73	10723.98	9384.90	-5189.37	1717971.18	14452512.22	39°47'45.0312"N	80°43'26.0066"W	10724.08	331.060	0.20	-0.06	-0.19
16088.00	90.020	330.340	6221.69	10817.97	9466.29	-5236.40	1717924.17	14452593.57	39°47'45.8370"N	80°43'26.6059"W	10818.06	331.050	0.77	0.00	0.77
16183.00	90.020	330.380	6221.66	10912.97	9548.85	-5283.38	1717877.20	14452676.11	39°47'46.6544"N	80°43'27.2045"W	10913.05	331.044	0.04	0.00	0.04
16278.00	90.110	330.330	6221.55	11007.97	9631.42	-5330.37	1717830.23	14452758.64	39°47'47.4718"N	80°43'27.8033"W	11008.05	331.038	0.11	0.09	-0.05
16373.00	90.050	330.240	6221.42	11102.96	9713.93	-5377.46	1717783.16	14452841.12	39°47'48.2886"N	80°43'28.4033"W	11103.04	331.032	0.11	-0.06	-0.09
16467.00	90.050	330.270	6221.34	11196.96	9795.54	-5424.10	1717736.54	14452922.70	39°47'49.0966"N	80°43'28.9976"W	11197.03	331.025	0.03	0.00	0.03
16562.00	90.050	329.980	6221.25	11291.95	9877.92	-5471.42	1717689.24	14453005.04	39°47'49.9121"N	80°43'29.6006"W	11292.02	331.018	0.31	0.00	-0.31
16657.00	90.020	330.160	6221.20	11386.94	9960.25	-5518.82	1717641.86	14453087.34	39°47'50.7272"N	80°43'30.2047"W	11387.00	331.010	0.19	-0.03	0.19
16752.00	90.170	330.200	6221.04	11481.94	10042.67	-5566.06	1717594.64	14453169.73	39°47'51.5432"N	80°43'30.8067"W	11481.99	331.003	0.16	0.16	0.04
16846.00	90.140	330.210	6220.78	11575.93	10124.24	-5612.77	1717547.95	14453251.27	39°47'52.3508"N	80°43'31.4019"W	11575.98	330.997	0.03	-0.03	0.01
16941.00	90.330	330.580	6220.40	11670.93	10206.84	-5659.70	1717501.03	14453333.84	39°47'53.1685"N	80°43'31.9999"W	11670.98	330.992	0.44	0.20	0.39
17036.00	90.200	330.990	6219.96	11765.93	10289.75	-5706.06	1717454.68	14453416.72	39°47'53.9893"N	80°43'32.5907"W	11765.98	330.990	0.45	-0.14	0.43
17131.00	90.170	330.740	6219.65	11860.92	10372.73	-5752.32	1717408.45	14453499.67	39°47'54.8107"N	80°43'33.1800"W	11860.98	330.989	0.27	-0.03	-0.26
17226.00	89.890	329.680	6219.60	11955.92	10455.18	-5799.51	1717361.27	14453582.08	39°47'55.6269"N	80°43'33.7815"W	11955.97	330.983	1.15	-0.29	-1.12
17321.00	90.080	330.600	6219.62	12050.91	10537.57	-5846.81	1717313.99	14453664.43	39°47'56.4426"N	80°43'34.3843"W	12050.95	330.976	0.99	0.20	0.97
17416.00	90.080	330.230	6219.49	12145.91	10620.18	-5893.72	1717267.11	14453747.01	39°47'57.2604"N	80°43'34.9820"W	12145.95	330.972	0.39	0.00	-0.39
17511.00	90.050	330.260	6219.38	12240.90	10702.65	-5940.86	1717219.98	14453829.46	39°47'58.0769"N	80°43'35.5828"W	12240.94	330.966	0.04	-0.03	0.03
17605.00	90.110	330.370	6219.25	12334.90	10784.32	-5987.41	1717173.45	14453911.09	39°47'58.8854"N	80°43'36.1760"W	12334.94	330.961	0.13	0.06	0.12



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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## WELLPATH DATA (288 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]
17700.00	90.080	330.150	6219.09	12429.89	10866.80	-6034.54	1717126.34	14453993.54	39°47'59.7020"N	80°43'36.7766"W	12429.93	330.956	0.23	-0.03	-0.23
17795.00	90.110	330.260	6218.94	12524.89	10949.25	-6081.75	1717079.15	14454075.95	39°48'0.5182"N	80°43'37.3782"W	12524.92	330.950	0.12	0.03	0.12
17890.00	90.170	330.310	6218.71	12619.88	11031.75	-6128.84	1717032.08	14454158.43	39°48'1.3350"N	80°43'37.9783"W	12619.91	330.945	0.08	0.06	0.05
17984.00	90.050	330.220	6218.52	12713.88	11113.38	-6175.46	1716985.48	14454240.02	39°48'2.1430"N	80°43'38.5724"W	12713.91	330.940	0.16	-0.13	-0.10
18079.00	90.290	330.100	6218.24	12808.87	11195.78	-6222.73	1716938.22	14454322.39	39°48'2.9588"N	80°43'39.1749"W	12808.90	330.934	0.28	0.25	-0.13
18174.00	90.260	330.330	6217.79	12903.87	11278.23	-6269.92	1716891.05	14454404.80	39°48'3.7750"N	80°43'39.7763"W	12903.89	330.929	0.24	-0.03	0.24
18269.00	90.140	330.230	6217.46	12998.86	11360.73	-6317.02	1716843.97	14454487.28	39°48'4.5918"N	80°43'40.3765"W	12998.88	330.924	0.16	-0.13	-0.11
18364.00	90.360	330.280	6217.04	13093.86	11443.22	-6364.15	1716796.86	14454569.72	39°48'5.4084"N	80°43'40.9772"W	13093.88	330.919	0.24	0.23	0.05
18458.00	90.290	330.300	6216.51	13187.85	11524.86	-6410.74	1716750.29	14454651.33	39°48'6.2166"N	80°43'41.5709"W	13187.87	330.915	0.08	-0.07	0.02
18553.00	90.320	330.020	6216.00	13282.84	11607.26	-6458.00	1716703.04	14454733.71	39°48'7.0324"N	80°43'42.1733"W	13282.86	330.909	0.30	0.03	-0.29
18648.00	90.260	330.130	6215.52	13377.83	11689.59	-6505.40	1716655.67	14454816.01	39°48'7.8475"N	80°43'42.7774"W	13377.85	330.904	0.13	-0.06	0.12
18743.00	90.200	330.120	6215.14	13472.83	11771.97	-6552.72	1716608.37	14454898.35	39°48'8.6630"N	80°43'43.3805"W	13472.84	330.898	0.06	-0.06	-0.01
18838.00	90.360	330.240	6214.68	13567.82	11854.39	-6599.96	1716561.14	14454980.74	39°48'9.4789"N	80°43'43.9825"W	13567.83	330.893	0.21	0.17	0.13
18933.00	90.320	330.210	6214.11	13662.81	11936.85	-6647.13	1716513.99	14455063.16	39°48'10.2952"N	80°43'44.5838"W	13662.82	330.888	0.05	-0.04	-0.03
19028.00	90.290	330.180	6213.61	13757.80	12019.28	-6694.35	1716466.79	14455145.56	39°48'11.1113"N	80°43'45.1856"W	13757.81	330.884	0.04	-0.03	-0.03
19123.00	90.390	330.340	6213.04	13852.80	12101.76	-6741.48	1716419.68	14455228.01	39°48'11.9279"N	80°43'45.7862"W	13852.81	330.879	0.20	0.11	0.17
19250.00	90.260	330.200	6212.32	13979.79	12212.05	-6804.46	1716356.72	14455338.25	39°48'13.0196"N	80°43'46.5889"W	13979.80	330.874	0.15	-0.10	-0.11
19275.00†	90.260	330.200	6212.21	14004.79	12233.74	-6816.88	1716344.31	14455359.94	39°48'13.2344"N	80°43'46.7473"W	14004.79	330.873	0.00	0.00	0.00

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# Actual Wellpath Report

Knob Creek N-3HM AWB Proj: 19275'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Knob Creek N-3HM
Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## HOLE & CASING SECTIONS - Ref Wellbore: Knob Creek N-3HM AWB Ref Wellpath: Knob Creek N-3HM AWB Proj: 19275'

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]
30in Conductor	28.00	148.00	120.00	28.00	148.00	0.00	0.00	0.13	-0.29
17.5in Open Hole	148.00	534.00	386.00	148.00	533.99	0.13	-0.29	1.56	-2.61
13.375in Casing Surface	28.00	534.00	506.00	28.00	533.99	0.00	0.00	1.56	-2.61
12.25in Open Hole	534.00	2322.00	1788.00	533.99	2321.29	1.56	-2.61	12.95	-33.69
9.625in Casing Intermediate	28.00	2322.00	2294.00	28.00	2321.29	0.00	0.00	12.95	-33.69
8.75in Open Hole	2322.00	4490.00	2168.00	2321.29	4475.85	12.95	-33.69	183.07	-122.43
8.5in Open Hole	4490.00	19275.00	14785.00	4475.85	6212.21	183.07	-122.43	12233.74	-6816.88
5.5in Casing Production	28.00	19275.00	19247.00	28.00	6212.21	0.00	0.00	12233.74	-6816.88

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Knob Creek N-3HM BHL Rev-1	6225.00	12227.27	-6828.79	1716332.40	14455353.47	39°48'13.1708"N	80°43'46.9001"W	point
Knob Creek N-3HM LP Rev-1	6225.00	1429.41	-621.89	1722536.85	14444559.87	39°46'26.2667"N	80°42'27.8231"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Knob Creek N-3HM AWB Ref Wellpath: Knob Creek N-3HM AWB Proj: 19275'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	538.00	OWSG MWD rev2 - Standard	01 MWD<17-1/2">(204'-538')	Knob Creek N-3HM AWB	10/3/2023
538.00	2276.00	OWSG MWD rev2 - Standard	02 MWD<12-1/4">(538')(570'-2276')	Knob Creek N-3HM AWB	11/13/2023
2276.00	4390.00	OWSG MWD rev2 - Standard	03 MWD<8-3/4">(2276')(2338'-4390')	Knob Creek N-3HM AWB	10/3/2023
4390.00	19275.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida +SQC IFR1+SAG+FDIR<8-1/2">(4390')(4503'-19250')	Knob Creek N-3HM AWB	11/13/2023



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Field	Marshall	API	47-051-02280-0000
Facility	Knob Creek	Wellbore	Knob Creek N-3HM AWB
Slot	Slot 03		

## COMMENTS

### Wellpath general comments

API: 47-051-02280-0000

BH Job #: 111995206

Rig: Patterson 204

Duration: 11/16/2023-11/18/2023

01\_MWD<17-1/2">(204'-538')

02\_MWD<12-1/4">(538')(570'-2276')

03\_MWD<8-3/4">(2276')(2338'-4390')

04\_BH Lucida +SQC IFR1+SAG+FDIR<8-1/2">(4390')(4503'-19250')

Landing Pt. @ 6877' MD

Final Survey @ 19250' MD

Projected MD at TD: 19275'



KB Elevation=765 FT  
 Ground Elevation=737 FT  
 All Survey Measurements were taken from KB Elevation

