

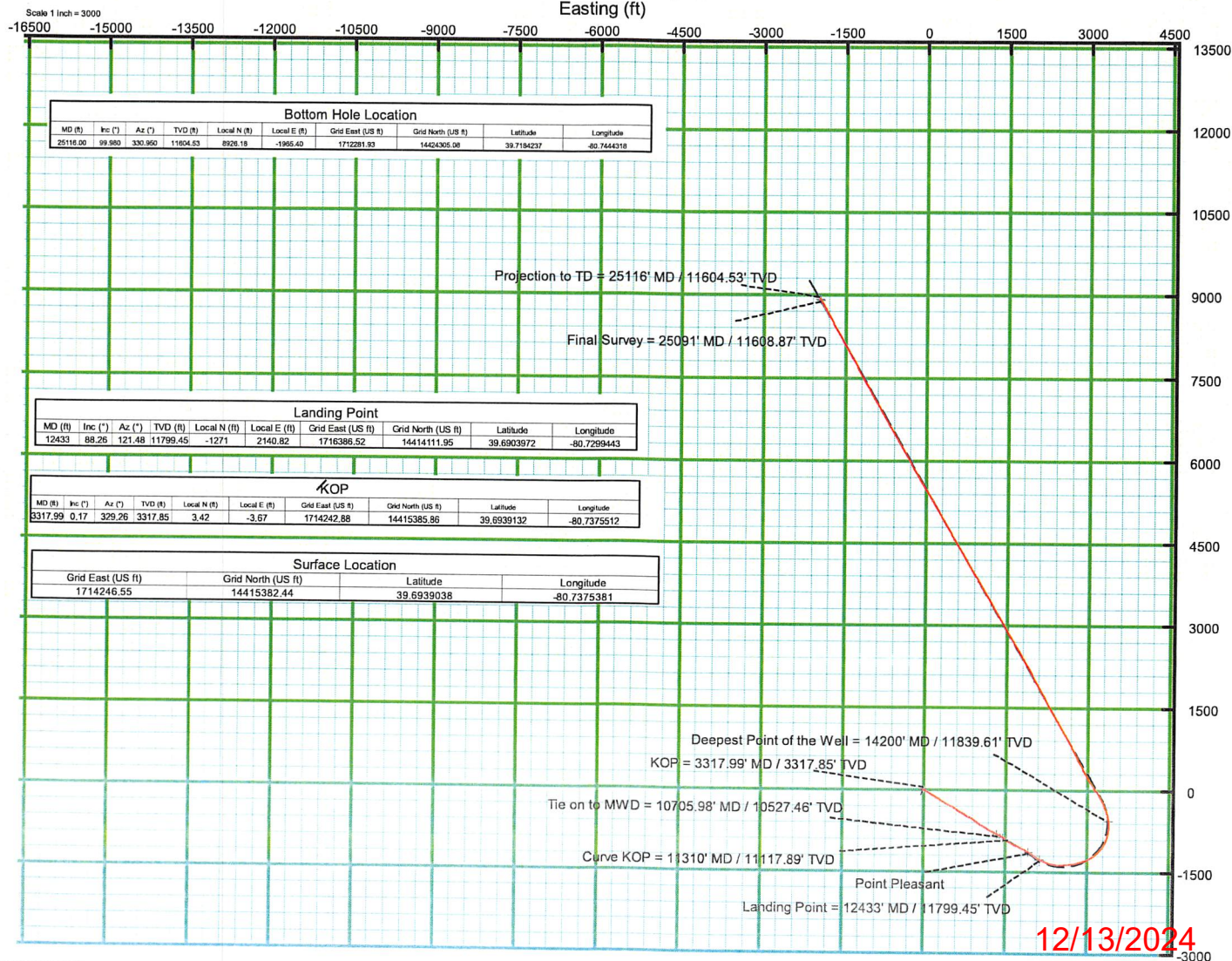
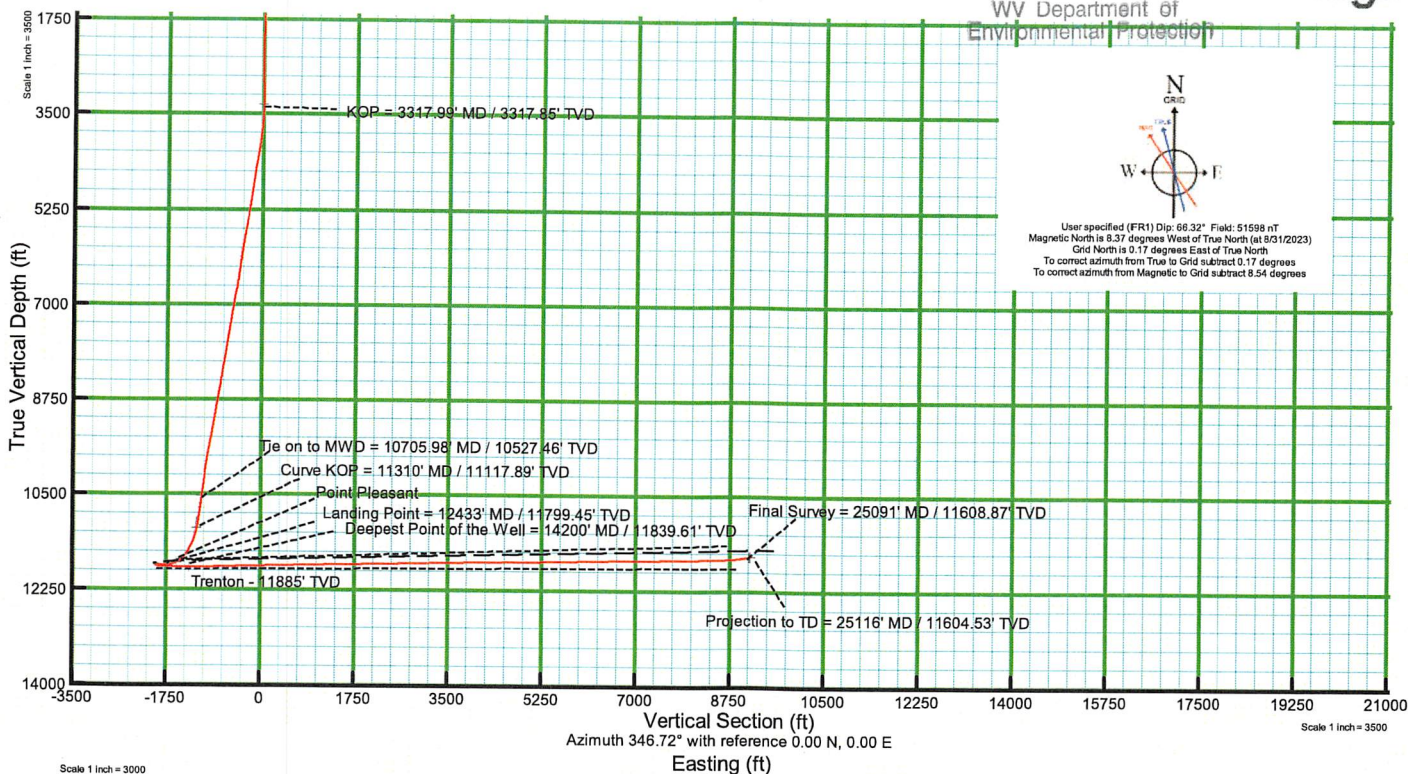


OCT 02 2024



KB Elevation=1310 FT
Ground Elevation=1277 FT
All Survey Measurements were taken from KB Elevation

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Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Scurdan
Scale	0.999606	Report Generated	9/28/2023 at 9:04:28 AM
Convergence at slot	0.17° 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	68.64	38.83	1714246.55	14415382.44	39°41'38.0538"N	80°44'15.1373"W
Facility Reference Pt			1714207.74	14415313.83	39°41'37.3765"N	80°44'15.6366"W
Field Reference Pt			1628437.04	12695896.25	34°58'12.0000"N	81°02'24.0000"W

WELLPATH DATUM

Calculation method	Minimum curvature	Nabors X08 (RKB) to Facility Vertical Datum	1310.00ft
Horizontal Reference Pt	Slot	Nabors X08 (RKB) to Mean Sea Level	1310.00ft
Vertical Reference Pt	Nabors X08 (RKB)	Nabors X08 (RKB) to Ground Level at Slot (Slot 18)	33.00ft
MD Reference Pt	Nabors X08 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	346.72°



Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'

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Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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	304.190	0.00	0.00	0.00	0.00	1714246.55	14415382.44	39°41'38.0538"N	80°44'15.1373"W	0.00	0.000	0.00	0.00	0.00
33.00	0.000	304.190	33.00	0.00	0.00	0.00	1714246.55	14415382.44	39°41'38.0538"N	80°44'15.1373"W	0.00	0.000	0.00	0.00	0.00
177.00	0.460	304.190	177.00	0.43	0.32	-0.48	1714246.07	14415382.76	39°41'38.0570"N	80°44'15.1434"W	0.58	304.190	0.32	0.32	0.00
221.00	0.460	292.510	221.00	0.66	0.49	-0.79	1714245.76	14415382.93	39°41'38.0586"N	80°44'15.1474"W	0.93	301.983	0.21	0.00	-26.50
265.00	0.540	299.450	265.00	0.90	0.66	-1.13	1714245.42	14415383.10	39°41'38.0603"N	80°44'15.1518"W	1.31	300.311	0.23	0.18	15.70
309.00	0.670	288.550	308.99	1.18	0.85	-1.56	1714245.00	14415383.28	39°41'38.0622"N	80°44'15.1572"W	1.77	298.512	0.39	0.30	-24.70
353.00	0.490	289.390	352.99	1.42	0.99	-1.98	1714244.57	14415383.43	39°41'38.0636"N	80°44'15.1626"W	2.21	296.585	0.41	-0.41	1.90
398.00	0.660	295.810	397.99	1.68	1.17	-2.39	1714244.16	14415383.61	39°41'38.0653"N	80°44'15.1679"W	2.66	295.991	0.40	0.38	14.20
442.00	0.630	299.850	441.99	2.01	1.40	-2.83	1714243.72	14415383.84	39°41'38.0676"N	80°44'15.1735"W	3.16	296.272	0.12	-0.07	9.10
486.00	0.580	288.260	485.98	2.29	1.59	-3.25	1714243.30	14415384.03	39°41'38.0695"N	80°44'15.1789"W	3.62	296.020	0.30	-0.11	-26.30
530.00	0.620	300.730	529.98	2.57	1.78	-3.67	1714242.88	14415384.22	39°41'38.0714"N	80°44'15.1842"W	4.08	295.872	0.31	0.09	28.30
574.00	0.420	296.670	573.98	2.84	1.97	-4.02	1714242.54	14415384.41	39°41'38.0734"N	80°44'15.1886"W	4.47	296.159	0.46	-0.45	-9.20
618.00	0.460	280.940	617.98	3.02	2.08	-4.33	1714242.22	14415384.52	39°41'38.0744"N	80°44'15.1927"W	4.81	295.623	0.29	0.09	-35.70
662.00	0.600	284.280	661.98	3.20	2.17	-4.73	1714241.82	14415384.61	39°41'38.0753"N	80°44'15.1978"W	5.20	294.631	0.33	0.32	7.50
706.00	0.420	274.670	705.97	3.35	2.24	-5.11	1714241.44	14415384.68	39°41'38.0760"N	80°44'15.2027"W	5.58	293.641	0.45	-0.41	-21.80
750.00	0.560	278.690	749.97	3.48	2.28	-5.49	1714241.06	14415384.72	39°41'38.0765"N	80°44'15.2074"W	5.94	292.601	0.33	0.32	9.10
795.00	0.540	288.640	794.97	3.68	2.39	-5.91	1714240.65	14415384.82	39°41'38.0775"N	80°44'15.2128"W	6.37	291.994	0.22	-0.04	22.10
838.00	0.480	305.980	837.97	3.92	2.56	-6.24	1714240.31	14415384.99	39°41'38.0792"N	80°44'15.2171"W	6.75	292.263	0.38	-0.14	40.30
883.00	0.400	302.290	882.97	4.18	2.75	-6.53	1714240.02	14415385.19	39°41'38.0811"N	80°44'15.2207"W	7.08	292.845	0.19	-0.18	-8.20
927.00	0.360	320.260	926.97	4.41	2.94	-6.75	1714239.81	14415385.38	39°41'38.0830"N	80°44'15.2235"W	7.36	293.537	0.28	-0.09	40.80
971.00	0.250	309.590	970.97	4.61	3.11	-6.91	1714239.64	14415385.55	39°41'38.0847"N	80°44'15.2256"W	7.58	294.208	0.28	-0.25	-24.20
1016.00	0.380	320.690	1015.97	4.82	3.28	-7.08	1714239.47	14415385.72	39°41'38.0864"N	80°44'15.2278"W	7.80	294.888	0.32	0.29	24.60
1060.00	0.540	325.140	1059.96	5.15	3.57	-7.29	1714239.26	14415386.01	39°41'38.0892"N	80°44'15.2305"W	8.12	296.074	0.37	0.36	10.10
1104.00	0.360	319.720	1103.96	5.46	3.84	-7.50	1714239.05	14415386.28	39°41'38.0920"N	80°44'15.2331"W	8.43	297.136	0.42	-0.41	-12.30
1148.00	0.240	33.140	1147.96	5.65	4.03	-7.54	1714239.02	14415386.46	39°41'38.0938"N	80°44'15.2336"W	8.54	298.106	0.84	-0.27	166.80
1192.00	0.560	21.530	1191.96	5.89	4.30	-7.41	1714239.14	14415386.74	39°41'38.0965"N	80°44'15.2319"W	8.57	300.149	0.75	0.73	-26.30
1236.00	0.450	46.540	1235.96	6.15	4.62	-7.20	1714239.35	14415387.06	39°41'38.0996"N	80°44'15.2293"W	8.56	302.683	0.55	-0.25	56.80
1280.00	0.760	98.590	1279.96	6.13	4.70	-6.79	1714239.76	14415387.14	39°41'38.1004"N	80°44'15.2240"W	8.26	304.674	1.36	0.70	118.30
1325.00	0.600	97.990	1324.95	5.93	4.62	-6.26	1714240.29	14415387.06	39°41'38.0996"N	80°44'15.2173"W	7.78	306.420	0.36	-0.36	-1.30
1368.00	0.850	112.690	1367.95	5.67	4.47	-5.74	1714240.81	14415386.90	39°41'38.0980"N	80°44'15.2106"W	7.28	307.860	0.72	0.58	34.10



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Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'

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Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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]
1412.00	0.440	118.040	1411.95	5.36	4.26	-5.29	1714241.26	14415386.70	39°41'38.0960"N	80°44'15.2049"W	6.79	308.823	0.94	-0.93	12.10
1457.00	0.440	160.860	1456.95	5.08	4.02	-5.08	1714241.47	14415386.45	39°41'38.0936"N	80°44'15.2022"W	6.48	308.299	0.71	0.00	95.10
1500.00	0.530	149.180	1499.94	4.72	3.69	-4.93	1714241.62	14415386.13	39°41'38.0904"N	80°44'15.2002"W	6.16	306.812	0.31	0.21	-27.10
1545.00	0.470	181.170	1544.94	4.35	3.33	-4.83	1714241.73	14415385.76	39°41'38.0868"N	80°44'15.1989"W	5.86	304.570	0.63	-0.13	71.00
1589.00	0.450	176.890	1588.94	4.00	2.97	-4.82	1714241.73	14415385.41	39°41'38.0833"N	80°44'15.1989"W	5.66	301.661	0.09	-0.05	-9.70
1633.00	0.150	135.650	1632.94	3.78	2.76	-4.77	1714241.78	14415385.20	39°41'38.0812"N	80°44'15.1983"W	5.51	300.041	0.80	-0.68	-93.70
1677.00	0.340	106.750	1676.94	3.67	2.68	-4.61	1714241.95	14415385.12	39°41'38.0804"N	80°44'15.1961"W	5.33	300.197	0.50	0.43	-65.60
1721.00	0.500	114.890	1720.94	3.48	2.56	-4.31	1714242.25	14415385.00	39°41'38.0792"N	80°44'15.1923"W	5.01	300.747	0.39	0.36	18.50
1765.00	0.580	134.370	1764.94	3.18	2.32	-3.97	1714242.58	14415384.76	39°41'38.0768"N	80°44'15.1881"W	4.60	300.338	0.45	0.18	44.20
1809.00	0.650	119.770	1808.93	2.82	2.05	-3.60	1714242.95	14415384.48	39°41'38.0741"N	80°44'15.1833"W	4.14	299.624	0.39	0.16	-33.10
1853.00	0.660	121.450	1852.93	2.47	1.79	-3.16	1714243.39	14415384.23	39°41'38.0715"N	80°44'15.1777"W	3.63	299.487	0.05	0.02	3.80
1897.00	0.420	132.360	1896.93	2.16	1.55	-2.83	1714243.72	14415383.99	39°41'38.0691"N	80°44'15.1735"W	3.22	298.695	0.59	-0.55	24.80
1941.00	0.580	132.140	1940.93	1.84	1.29	-2.54	1714244.01	14415383.73	39°41'38.0666"N	80°44'15.1698"W	2.85	296.889	0.36	0.36	-0.50
1985.00	0.780	121.520	1984.93	1.45	0.98	-2.12	1714244.43	14415383.42	39°41'38.0635"N	80°44'15.1645"W	2.34	294.863	0.54	0.45	-24.10
2030.00	0.970	128.140	2029.92	0.93	0.59	-1.56	1714244.99	14415383.03	39°41'38.0596"N	80°44'15.1573"W	1.67	290.641	0.48	0.42	14.70
2074.00	0.660	124.600	2073.92	0.45	0.21	-1.06	1714245.49	14415382.65	39°41'38.0559"N	80°44'15.1509"W	1.08	281.445	0.71	-0.70	-8.00
2118.00	0.630	105.960	2117.91	0.15	0.00	-0.62	1714245.93	14415382.44	39°41'38.0538"N	80°44'15.1453"W	0.62	270.419	0.48	-0.07	-42.30
2162.00	0.560	101.780	2161.91	-0.06	-0.11	-0.18	1714246.37	14415382.33	39°41'38.0527"N	80°44'15.1396"W	0.21	239.186	0.19	-0.16	-9.50
2206.00	0.410	114.040	2205.91	-0.25	-0.21	0.18	1714246.73	14415382.23	39°41'38.0516"N	80°44'15.1351"W	0.28	140.430	0.41	-0.34	27.80
2250.00	0.540	96.990	2249.91	-0.42	-0.30	0.53	1714247.08	14415382.14	39°41'38.0507"N	80°44'15.1306"W	0.61	119.950	0.43	0.30	-38.70
2294.00	0.630	121.270	2293.90	-0.66	-0.45	0.94	1714247.49	14415381.99	39°41'38.0492"N	80°44'15.1253"W	1.04	115.809	0.59	0.20	55.10
2338.00	0.730	106.050	2337.90	-0.96	-0.66	1.42	1714247.96	14415381.78	39°41'38.0472"N	80°44'15.1192"W	1.56	114.909	0.47	0.23	-34.50
2382.00	0.540	116.220	2381.90	-1.23	-0.83	1.87	1714248.42	14415381.61	39°41'38.0455"N	80°44'15.1134"W	2.04	113.833	0.50	-0.43	23.10
2427.00	0.240	211.800	2426.90	-1.44	-1.00	2.01	1714248.56	14415381.44	39°41'38.0438"N	80°44'15.1116"W	2.25	116.440	1.36	-0.67	212.40
2471.00	0.380	262.740	2470.90	-1.48	-1.10	1.82	1714248.37	14415381.34	39°41'38.0429"N	80°44'15.1141"W	2.12	121.106	0.67	0.32	115.70
2514.99	0.290	271.690	2514.89	-1.44	-1.11	1.56	1714248.11	14415381.33	39°41'38.0427"N	80°44'15.1174"W	1.92	125.451	0.24	-0.20	20.30
2558.99	0.460	288.980	2558.89	-1.32	-1.05	1.28	1714247.83	14415381.39	39°41'38.0433"N	80°44'15.1209"W	1.66	129.321	0.46	0.39	39.30
2601.99	0.750	311.560	2601.88	-1.00	-0.81	0.91	1714247.46	14415381.63	39°41'38.0457"N	80°44'15.1257"W	1.22	131.629	0.86	0.67	52.50
2646.99	1.010	304.210	2646.88	-0.46	-0.39	0.36	1714246.91	14415382.05	39°41'38.0499"N	80°44'15.1327"W	0.53	137.195	0.63	0.58	-16.30
2689.99	0.730	310.300	2689.87	0.04	0.00	-0.16	1714246.39	14415382.44	39°41'38.0538"N	80°44'15.1394"W	0.16	270.092	0.68	-0.65	14.10



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Slot	Slot 18		

WELLPATH DATA (305 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]
2733.99	0.680	285.490	2733.87	0.39	0.25	-0.63	1714245.92	14415382.69	39°41'38.0563"N	80°44'15.1453"W	0.68	291.855	0.70	-0.11	-56.3
2778.99	0.350	281.580	2778.87	0.57	0.35	-1.02	1714245.53	14415382.79	39°41'38.0572"N	80°44'15.1503"W	1.08	288.974	0.74	-0.73	-8.6
2822.99	0.390	297.930	2822.87	0.73	0.45	-1.28	1714245.27	14415382.89	39°41'38.0582"N	80°44'15.1537"W	1.36	289.228	0.26	0.09	37.1
2866.99	0.260	280.700	2866.87	0.87	0.54	-1.51	1714245.04	14415382.98	39°41'38.0591"N	80°44'15.1567"W	1.60	289.508	0.37	-0.30	-39.1
2910.99	0.380	277.230	2910.87	0.96	0.57	-1.76	1714244.79	14415383.01	39°41'38.0595"N	80°44'15.1598"W	1.85	288.071	0.28	0.27	-7.8
2939.99	0.360	280.830	2939.87	1.03	0.60	-1.94	1714244.61	14415383.04	39°41'38.0598"N	80°44'15.1621"W	2.03	287.237	0.11	-0.07	12.4
3035.99	0.420	25.800	3035.86	1.43	0.98	-2.08	1714244.47	14415383.42	39°41'38.0635"N	80°44'15.1639"W	2.30	295.089	0.65	0.06	109.3
3128.99	0.530	325.250	3128.86	2.09	1.64	-2.18	1714244.37	14415384.08	39°41'38.0700"N	80°44'15.1652"W	2.73	306.878	0.53	0.12	-65.1
3223.99	1.060	318.100	3223.85	3.27	2.65	-3.02	1714243.53	14415385.09	39°41'38.0800"N	80°44'15.1758"W	4.02	311.297	0.57	0.56	-7.5
3317.99	0.170	329.260	3317.85	4.17	3.42	-3.67	1714242.88	14415385.86	39°41'38.0876"N	80°44'15.1841"W	5.01	312.965	0.95	-0.95	11.8
3411.99	2.200	124.250	3411.82	2.97	2.52	-2.25	1714244.30	14415384.96	39°41'38.0787"N	80°44'15.1660"W	3.38	318.272	2.51	2.16	164.8
3505.99	3.850	125.640	3505.69	-0.74	-0.33	1.81	1714248.36	14415382.11	39°41'38.0504"N	80°44'15.1142"W	1.84	100.418	1.76	1.76	1.4
3599.99	5.380	130.140	3599.38	-6.66	-5.01	7.74	1714254.29	14415377.43	39°41'38.0040"N	80°44'15.0385"W	9.22	122.923	1.67	1.63	4.7
3696.99	7.000	126.250	3695.81	-14.81	-11.44	15.98	1714262.53	14415371.01	39°41'37.9402"N	80°44'14.9333"W	19.66	125.589	1.72	1.67	-4.0
3791.99	8.040	124.720	3790.00	-24.15	-18.65	26.11	1714272.65	14415363.80	39°41'37.8687"N	80°44'14.8040"W	32.09	125.529	1.11	1.09	-1.6
3885.99	9.100	123.630	3882.95	-34.46	-26.51	37.71	1714284.24	14415355.94	39°41'37.7907"N	80°44'14.6560"W	46.09	125.107	1.14	1.13	-1.1
3978.99	10.180	122.940	3974.63	-45.77	-35.05	50.73	1714297.26	14415347.40	39°41'37.7059"N	80°44'14.4897"W	61.66	124.642	1.17	1.16	-0.7
4072.99	11.350	122.440	4066.97	-58.39	-44.53	65.51	1714312.03	14415337.93	39°41'37.6118"N	80°44'14.3010"W	79.21	124.207	1.25	1.24	-0.5
4167.99	12.090	122.180	4159.99	-72.17	-54.84	81.82	1714328.33	14415327.62	39°41'37.5094"N	80°44'14.0927"W	98.50	123.834	0.78	0.78	-0.2
4261.99	12.990	120.510	4251.75	-86.50	-65.45	99.25	1714345.76	14415317.02	39°41'37.4041"N	80°44'13.8701"W	118.89	123.402	1.03	0.96	-1.7
4355.99	13.330	120.130	4343.28	-101.25	-76.25	117.72	1714364.23	14415306.22	39°41'37.2968"N	80°44'13.6342"W	140.26	122.932	0.37	0.36	-0.4
4450.99	14.030	122.520	4435.59	-117.04	-87.94	136.91	1714383.40	14415294.54	39°41'37.1807"N	80°44'13.3892"W	162.72	122.714	0.95	0.74	2.5
4544.99	12.920	121.030	4527.00	-132.55	-99.48	155.52	1714402.01	14415283.00	39°41'37.0661"N	80°44'13.1516"W	184.62	122.606	1.24	-1.18	-1.5
4638.99	13.340	120.820	4618.54	-147.43	-110.46	173.84	1714420.32	14415272.03	39°41'36.9571"N	80°44'12.9176"W	205.96	122.432	0.45	0.45	-0.2
4732.99	13.310	120.290	4710.01	-162.44	-121.47	192.49	1714438.97	14415261.02	39°41'36.8477"N	80°44'12.6794"W	227.61	122.253	0.13	-0.03	-0.5
4827.99	12.910	118.450	4802.53	-177.04	-132.04	211.27	1714457.73	14415250.45	39°41'36.7427"N	80°44'12.4396"W	249.14	122.005	0.61	-0.42	-1.9
4921.99	13.140	119.230	4894.12	-191.25	-142.26	229.82	1714476.28	14415240.24	39°41'36.6412"N	80°44'12.2026"W	270.29	121.757	0.31	0.24	0.8
5015.99	12.990	117.920	4985.68	-205.43	-152.42	248.48	1714494.93	14415230.08	39°41'36.5402"N	80°44'11.9643"W	291.51	121.526	0.35	-0.16	-1.3
5109.99	12.590	117.570	5077.35	-219.09	-162.11	266.90	1714513.34	14415220.39	39°41'36.4439"N	80°44'11.7291"W	312.28	121.274	0.43	-0.43	-0.3
5202.99	11.250	123.700	5168.35	-232.35	-171.84	283.43	1714529.87	14415210.67	39°41'36.3473"N	80°44'11.5179"W	331.46	121.227	1.98	-1.44	6.5



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Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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]
5297.99	12.180	126.430	5261.37	-246.77	-182.93	299.21	1714545.64	14415199.58	39°41'36.2372"N	80°44'11.3166"W	350.70	121.441	1.14	0.98	2.8
5393.99	13.780	124.790	5354.91	-263.00	-195.47	316.74	1714563.17	14415187.05	39°41'36.1128"N	80°44'11.0927"W	372.20	121.680	1.71	1.67	-1.7
5488.99	13.910	122.230	5447.15	-279.57	-208.02	335.70	1714582.11	14415174.51	39°41'35.9882"N	80°44'10.8507"W	394.92	121.785	0.66	0.14	-2.6
5581.99	14.190	123.330	5537.37	-295.82	-220.24	354.68	1714601.09	14415162.29	39°41'35.8669"N	80°44'10.6084"W	417.49	121.839	0.42	0.30	1.1
5675.99	13.170	121.910	5628.70	-311.79	-232.23	373.39	1714619.80	14415150.30	39°41'35.7478"N	80°44'10.3694"W	439.72	121.880	1.14	-1.09	-1.5
5769.99	12.320	121.990	5720.39	-326.52	-243.21	390.99	1714637.39	14415139.33	39°41'35.6389"N	80°44'10.1447"W	460.46	121.883	0.90	-0.90	0.0
5863.99	11.950	119.470	5812.29	-340.25	-253.31	407.97	1714654.36	14415129.23	39°41'35.5386"N	80°44'9.9279"W	480.21	121.836	0.69	-0.39	-2.6
5957.99	12.950	117.960	5904.07	-353.80	-263.03	425.74	1714672.13	14415119.51	39°41'35.4419"N	80°44'9.7008"W	500.44	121.708	1.12	1.06	-1.6
6051.99	13.070	118.300	5995.66	-367.79	-273.01	444.41	1714690.78	14415109.54	39°41'35.3428"N	80°44'9.4625"W	521.57	121.563	0.15	0.13	0.3
6144.99	12.720	116.120	6086.32	-381.27	-282.50	462.86	1714709.22	14415100.05	39°41'35.2484"N	80°44'9.2268"W	542.26	121.398	0.64	-0.38	-2.3
6238.99	12.930	116.160	6177.97	-394.52	-291.70	481.59	1714727.95	14415090.86	39°41'35.1570"N	80°44'8.9875"W	563.04	121.203	0.22	0.22	0.0
6332.99	13.770	117.210	6269.43	-408.47	-301.45	500.98	1714747.33	14415081.11	39°41'35.0601"N	80°44'8.7398"W	584.68	121.036	0.93	0.89	1.1
6426.99	13.240	117.410	6360.83	-422.75	-311.52	520.48	1714766.83	14415071.04	39°41'34.9600"N	80°44'8.4907"W	606.59	120.901	0.57	-0.56	0.2
6520.99	13.310	120.990	6452.32	-437.32	-322.05	539.32	1714785.65	14415060.52	39°41'34.8554"N	80°44'8.2502"W	628.15	120.843	0.88	0.07	3.8
6614.99	12.840	123.290	6543.88	-452.46	-333.35	557.32	1714803.65	14415049.22	39°41'34.7432"N	80°44'8.0203"W	649.41	120.885	0.75	-0.50	2.4
6708.99	12.210	123.620	6635.65	-467.30	-344.59	574.33	1714820.65	14415037.99	39°41'34.6316"N	80°44'7.8031"W	669.77	120.963	0.67	-0.67	0.3
6801.99	13.460	123.110	6726.32	-482.32	-355.94	591.59	1714837.90	14415026.64	39°41'34.5189"N	80°44'7.5828"W	690.41	121.034	1.35	1.34	-0.5
6897.99	13.210	123.520	6819.73	-498.41	-368.10	610.09	1714856.40	14415014.48	39°41'34.3981"N	80°44'7.3465"W	712.54	121.105	0.28	-0.26	0.4
6991.99	11.970	126.120	6911.47	-513.64	-379.78	626.92	1714873.22	14415002.81	39°41'34.2822"N	80°44'7.1317"W	732.98	121.207	1.45	-1.32	2.7
7085.99	12.060	123.910	7003.41	-528.24	-391.01	642.94	1714889.24	14414991.59	39°41'34.1708"N	80°44'6.9271"W	752.50	121.306	0.50	0.10	-2.3
7180.99	12.970	122.010	7096.16	-543.10	-402.20	660.22	1714906.51	14414980.40	39°41'34.0598"N	80°44'6.7065"W	773.08	121.349	1.05	0.96	-2.0
7274.99	13.720	116.840	7187.62	-557.78	-412.82	679.11	1714925.39	14414969.78	39°41'33.9542"N	80°44'6.4653"W	794.74	121.295	1.50	0.80	-5.5
7368.99	14.400	115.130	7278.80	-572.23	-422.82	699.64	1714945.92	14414959.79	39°41'33.8548"N	80°44'6.2030"W	817.48	121.146	0.85	0.72	-1.8
7462.99	13.130	119.710	7370.10	-586.77	-433.07	719.50	1714965.76	14414949.54	39°41'33.7529"N	80°44'5.9494"W	839.78	121.044	1.78	-1.35	4.8
7556.98	12.960	121.060	7461.67	-601.41	-443.80	737.80	1714984.06	14414938.81	39°41'33.6463"N	80°44'5.7157"W	860.99	121.028	0.37	-0.18	1.4
7649.98	13.250	121.100	7552.25	-616.16	-454.69	755.86	1715002.11	14414927.93	39°41'33.5382"N	80°44'5.4851"W	882.08	121.029	0.31	0.31	0.0
7743.98	12.490	121.680	7643.88	-630.87	-465.59	773.73	1715019.98	14414917.03	39°41'33.4299"N	80°44'5.2568"W	903.02	121.037	0.82	-0.81	0.6
7837.98	12.220	122.270	7735.71	-645.16	-476.24	790.79	1715037.03	14414906.39	39°41'33.3242"N	80°44'5.0390"W	923.13	121.058	0.32	-0.29	0.6
7930.98	12.050	123.150	7826.63	-659.22	-486.80	807.24	1715053.48	14414895.83	39°41'33.2193"N	80°44'4.8290"W	942.67	121.092	0.27	-0.18	0.9
8025.98	13.310	119.600	7919.31	-673.84	-497.63	825.06	1715071.28	14414885.01	39°41'33.1118"N	80°44'4.6015"W	963.51	121.096	1.56	1.33	-3.7



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Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWP
Slot	Slot 18		

WELLPATH DATA (305 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]
8122.98	15.640	114.850	8013.23	-689.52	-508.64	846.63	1715092.85	14414874.00	39°41'33.0023"N	80°44'4.3259"W	987.68	120.997	2.69	2.40	-4.9
8216.98	15.850	117.120	8103.70	-705.66	-519.82	869.56	1715115.76	14414862.83	39°41'32.8912"N	80°44'4.0331"W	1013.08	120.871	0.69	0.22	2.4
8311.98	13.210	124.510	8195.67	-722.11	-531.88	890.05	1715136.25	14414850.77	39°41'32.7714"N	80°44'3.7713"W	1036.87	120.862	3.39	-2.78	7.7
8404.98	12.520	126.280	8286.33	-737.66	-543.87	906.94	1715153.13	14414838.79	39°41'32.6524"N	80°44'3.5558"W	1057.51	120.950	0.85	-0.74	1.9
8497.98	12.900	125.610	8377.05	-753.15	-555.88	923.50	1715169.69	14414826.78	39°41'32.5333"N	80°44'3.3444"W	1077.89	121.045	0.44	0.41	-0.7
8592.98	13.450	123.610	8469.55	-769.21	-568.17	941.32	1715187.50	14414814.50	39°41'32.4113"N	80°44'3.1168"W	1099.50	121.115	0.75	0.58	-2.1
8686.98	14.410	123.820	8560.79	-785.76	-580.73	960.15	1715206.32	14414801.94	39°41'32.2866"N	80°44'2.8765"W	1122.11	121.167	1.02	1.02	0.2
8780.98	13.220	124.890	8652.07	-802.33	-593.39	978.68	1715224.84	14414789.29	39°41'32.1609"N	80°44'2.6399"W	1144.52	121.229	1.29	-1.27	1.1
8874.98	12.370	125.870	8743.73	-817.96	-605.44	995.66	1715241.81	14414777.24	39°41'32.0414"N	80°44'2.4232"W	1165.28	121.303	0.93	-0.90	1.0
8967.98	12.480	123.890	8834.55	-832.86	-616.88	1012.07	1715258.22	14414765.81	39°41'31.9278"N	80°44'2.2137"W	1185.25	121.363	0.47	0.12	-2.1
9061.98	12.770	122.110	8926.28	-847.71	-628.06	1029.30	1715275.44	14414754.63	39°41'31.8168"N	80°44'1.9937"W	1205.79	121.391	0.52	0.31	-1.8
9154.98	12.600	120.250	9017.01	-862.01	-638.64	1046.77	1715292.91	14414744.06	39°41'31.7118"N	80°44'1.7706"W	1226.21	121.387	0.48	-0.18	-2.0
9247.98	13.620	121.590	9107.59	-876.72	-649.48	1064.86	1715310.99	14414733.21	39°41'31.6040"N	80°44'1.5396"W	1247.30	121.380	1.14	1.10	1.4
9341.98	13.620	118.780	9198.94	-891.95	-660.61	1083.99	1715330.11	14414722.09	39°41'31.4935"N	80°44'1.2953"W	1269.42	121.359	0.70	0.00	-2.9
9435.98	14.590	118.960	9290.11	-907.32	-671.67	1104.05	1715350.16	14414711.04	39°41'31.3836"N	80°44'1.0391"W	1292.31	121.315	1.03	1.03	0.1
9529.98	14.030	121.940	9381.19	-923.37	-683.43	1124.08	1715370.18	14414699.28	39°41'31.2668"N	80°44'0.7834"W	1315.53	121.299	0.98	-0.60	3.1
9623.98	13.930	122.730	9472.41	-939.60	-695.58	1143.26	1715389.36	14414687.14	39°41'31.1462"N	80°44'0.5384"W	1338.24	121.317	0.23	-0.11	0.8
9717.98	14.360	123.120	9563.56	-956.18	-708.06	1162.55	1715408.64	14414674.66	39°41'31.0222"N	80°44'0.2922"W	1361.20	121.344	0.47	0.46	0.4
9802.98	14.990	124.350	9645.78	-971.93	-720.03	1180.45	1715426.53	14414662.70	39°41'30.9035"N	80°44'0.0636"W	1382.71	121.381	0.83	0.74	1.4
9896.98	13.930	119.960	9736.81	-988.67	-732.54	1200.29	1715446.36	14414650.19	39°41'30.7793"N	80°43'59.8103"W	1406.17	121.396	1.62	-1.13	-4.6
9991.98	13.050	119.340	9829.19	-1003.76	-743.50	1219.55	1715465.61	14414639.23	39°41'30.6703"N	80°43'59.5644"W	1428.32	121.369	0.94	-0.93	-0.6
10085.98	12.400	118.380	9920.88	-1017.66	-753.50	1237.68	1715483.74	14414629.24	39°41'30.5710"N	80°43'59.3328"W	1449.00	121.333	0.73	-0.69	-1.0
10179.98	12.040	117.940	10012.75	-1030.83	-762.89	1255.22	1715501.27	14414619.85	39°41'30.4777"N	80°43'59.1088"W	1468.87	121.290	0.40	-0.38	-0.4
10273.98	11.520	118.110	10104.77	-1043.49	-771.91	1272.16	1715518.21	14414610.84	39°41'30.3881"N	80°43'58.8924"W	1488.03	121.248	0.55	-0.55	0.1
10368.98	11.690	115.740	10197.83	-1055.82	-780.56	1289.20	1715535.24	14414602.19	39°41'30.3021"N	80°43'58.6748"W	1507.08	121.193	0.53	0.18	-2.4
10461.98	12.350	117.240	10288.79	-1068.22	-789.20	1306.53	1715552.56	14414593.55	39°41'30.2161"N	80°43'58.4535"W	1526.38	121.134	0.79	0.71	1.6
10555.98	12.220	117.760	10380.63	-1081.28	-798.43	1324.27	1715570.29	14414584.32	39°41'30.1244"N	80°43'58.2269"W	1546.34	121.087	0.18	-0.14	0.5
10649.98	11.780	118.290	10472.58	-1094.18	-807.62	1341.52	1715587.54	14414575.14	39°41'30.0331"N	80°43'58.0065"W	1565.86	121.049	0.48	-0.47	0.5
10705.98	11.160	118.990	10527.46	-1101.62	-812.95	1351.29	1715597.31	14414569.81	39°41'29.9801"N	80°43'57.8817"W	1576.99	121.032	1.13	-1.11	1.2
10795.00	9.220	116.030	10615.07	-1111.93	-820.26	1365.24	1715611.25	14414562.51	39°41'29.9075"N	80°43'57.7036"W	1592.70	120.998	2.26	-2.18	-3.3



Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'

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Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWP
Slot	Slot 18		

WELLPATH DATA (305 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]
10845.00	9.890	118.290	10664.38	-1117.32	-824.05	1372.62	1715618.63	14414558.72	39°41'29.8698"N	80°43'57.6093"W	1600.98	120.978	1.54	1.34	4.5
10938.00	12.610	119.110	10755.58	-1129.46	-832.78	1388.52	1715634.52	14414549.99	39°41'29.7831"N	80°43'57.4062"W	1619.11	120.953	2.93	2.92	0.8
11031.00	12.710	118.670	10846.32	-1143.15	-842.62	1406.37	1715652.36	14414540.15	39°41'29.6852"N	80°43'57.1783"W	1639.48	120.928	0.15	0.11	-0.4
11124.00	12.610	118.570	10937.06	-1156.76	-852.39	1424.26	1715670.25	14414530.39	39°41'29.5882"N	80°43'56.9498"W	1659.84	120.899	0.11	-0.11	-0.1
11217.00	13.630	120.740	11027.63	-1171.15	-862.84	1442.60	1715688.57	14414519.94	39°41'29.4843"N	80°43'56.7156"W	1680.95	120.884	1.22	1.10	2.3
11310.00	14.290	121.880	11117.89	-1186.90	-874.50	1461.76	1715707.73	14414508.28	39°41'29.3685"N	80°43'56.4709"W	1703.38	120.890	0.77	0.71	1.2
11404.00	18.090	127.780	11208.15	-1206.49	-889.58	1483.16	1715729.12	14414493.21	39°41'29.2189"N	80°43'56.1978"W	1729.48	120.955	4.40	4.04	6.2
11497.00	24.200	128.010	11294.85	-1232.62	-910.18	1509.61	1715755.56	14414472.62	39°41'29.0145"N	80°43'55.8602"W	1762.77	121.087	6.57	6.57	0.2
11590.00	28.750	126.240	11378.07	-1264.52	-935.16	1542.69	1715788.63	14414447.65	39°41'28.7667"N	80°43'55.4380"W	1804.00	121.224	4.96	4.89	-1.9
11684.00	35.020	122.030	11457.86	-1300.93	-962.86	1583.83	1715829.75	14414419.97	39°41'28.4918"N	80°43'54.9127"W	1853.54	121.297	7.07	6.67	-4.4
11778.00	41.770	116.730	11531.51	-1340.29	-991.28	1634.73	1715880.64	14414391.55	39°41'28.2093"N	80°43'54.2627"W	1911.80	121.232	7.98	7.18	-5.6
11871.00	49.710	116.250	11596.36	-1382.85	-1020.95	1694.31	1715940.18	14414361.89	39°41'27.9143"N	80°43'53.5018"W	1978.13	121.072	8.55	8.54	-0.5
11964.00	54.500	116.390	11653.47	-1429.62	-1053.48	1760.07	1716005.92	14414329.37	39°41'27.5909"N	80°43'52.6618"W	2051.26	120.903	5.15	5.15	0.1
12058.00	61.650	117.230	11703.14	-1480.98	-1089.46	1831.21	1716077.04	14414293.41	39°41'27.2332"N	80°43'51.7530"W	2130.79	120.750	7.64	7.61	0.8
12150.00	68.430	119.250	11741.95	-1536.26	-1128.94	1904.63	1716150.42	14414253.95	39°41'26.8409"N	80°43'50.8155"W	2214.07	120.657	7.63	7.37	2.2
12244.00	74.730	121.460	11771.64	-1597.79	-1174.01	1981.52	1716227.29	14414208.89	39°41'26.3932"N	80°43'49.8335"W	2303.20	120.646	7.06	6.70	2.3
12340.00	81.650	121.200	11791.27	-1663.74	-1222.84	2061.74	1716307.48	14414160.08	39°41'25.9082"N	80°43'48.8092"W	2397.11	120.673	7.21	7.21	-0.2
12433.00	88.260	121.480	11799.45	-1728.78	-1271.00	2140.82	1716386.52	14414111.95	39°41'25.4300"N	80°43'47.7995"W	2489.69	120.697	7.11	7.11	0.3
12527.00	88.820	113.550	11801.85	-1790.12	-1314.37	2224.10	1716469.77	14414068.59	39°41'24.9988"N	80°43'46.7359"W	2583.44	120.582	8.45	0.60	-8.4
12620.00	88.760	104.780	11803.82	-1839.96	-1344.87	2311.84	1716557.47	14414038.10	39°41'24.6948"N	80°43'45.6147"W	2674.56	120.188	9.43	-0.06	-9.4
12713.00	88.570	97.930	11805.98	-1878.69	-1363.16	2402.94	1716648.54	14414019.82	39°41'24.5113"N	80°43'44.4501"W	2762.66	119.566	7.37	-0.20	-7.3
12806.00	88.790	93.120	11808.13	-1908.65	-1372.11	2495.45	1716741.02	14414010.87	39°41'24.4201"N	80°43'43.2670"W	2847.80	118.804	5.18	0.24	-5.1
12899.00	88.480	83.050	11810.35	-1926.95	-1369.01	2588.25	1716833.78	14414013.97	39°41'24.4480"N	80°43'42.0797"W	2928.01	117.876	10.83	-0.33	-10.8
12991.00	88.390	83.600	11812.86	-1937.53	-1358.32	2679.60	1716925.09	14414024.66	39°41'24.5509"N	80°43'40.9109"W	3004.21	116.881	0.61	-0.10	0.6
13083.00	89.160	81.210	11814.83	-1946.64	-1346.16	2770.76	1717016.22	14414036.81	39°41'24.6683"N	80°43'39.7442"W	3080.47	115.913	2.73	0.84	-2.6
13177.00	89.530	73.060	11815.91	-1947.32	-1325.25	2862.32	1717107.74	14414057.71	39°41'24.8722"N	80°43'38.5722"W	3154.23	114.844	8.68	0.39	-8.6
13270.00	89.130	69.670	11816.99	-1938.64	-1295.54	2950.42	1717195.81	14414087.41	39°41'25.1632"N	80°43'37.4440"W	3222.33	113.706	3.67	-0.43	-3.6
13363.00	88.510	64.290	11818.91	-1922.92	-1259.20	3035.97	1717281.32	14414123.74	39°41'25.5198"N	80°43'36.3484"W	3286.74	112.527	5.82	-0.67	-5.7
13456.00	88.450	55.270	11821.38	-1895.86	-1212.45	3116.22	1717361.53	14414170.47	39°41'25.9793"N	80°43'35.3200"W	3343.78	111.260	9.70	-0.06	-9.7
13550.00	88.360	45.600	11824.00	-1854.30	-1152.67	3188.57	1717433.86	14414230.22	39°41'26.5679"N	80°43'34.3921"W	3390.52	109.875	10.28	-0.10	-10.2



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Elmer N-18 HU AWP Proj: 25116'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWP
Slot	Slot 18		

WELLPATH DATA (305 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]
13642.00	88.510	38.970	11826.52	-1802.32	-1084.67	3250.41	1717495.67	14414298.20	39°41'27.2381"N	80°43'33.5984"W	3426.61	108.454	7.21	0.16	-7.2
13735.00	88.820	31.710	11828.69	-1740.90	-1008.88	3304.15	1717549.40	14414373.96	39°41'27.9855"N	80°43'32.9079"W	3454.75	106.979	7.81	0.33	-7.8
13827.00	88.450	23.410	11830.88	-1671.38	-927.42	3346.67	1717591.90	14414455.39	39°41'28.7893"N	80°43'32.3609"W	3472.79	105.489	9.03	-0.40	-9.0
13921.00	87.650	14.960	11834.09	-1592.19	-838.77	3377.52	1717622.73	14414544.00	39°41'29.6645"N	80°43'31.9628"W	3480.11	103.947	9.02	-0.85	-8.9
14014.00	88.260	7.750	11837.41	-1507.76	-747.71	3395.80	1717641.01	14414635.03	39°41'30.5639"N	80°43'31.7253"W	3477.15	102.418	7.78	0.66	-7.7
14106.00	89.280	1.520	11839.39	-1420.29	-656.08	3403.23	1717648.43	14414726.62	39°41'31.4692"N	80°43'31.6267"W	3465.89	100.912	6.86	1.11	-6.7
14200.00	90.450	354.620	11839.61	-1328.18	-562.19	3400.07	1717645.27	14414820.47	39°41'32.3972"N	80°43'31.6635"W	3446.23	99.389	7.45	1.24	-7.3
14292.00	90.600	345.610	11838.77	-1236.44	-471.65	3384.29	1717629.50	14414910.97	39°41'33.2924"N	80°43'31.8618"W	3417.00	97.934	9.79	0.16	-9.7
14385.00	90.790	337.460	11837.64	-1143.91	-383.52	3354.86	1717600.08	14414999.07	39°41'34.1643"N	80°43'32.2348"W	3376.71	96.522	8.77	0.20	-8.7
14478.00	91.030	338.740	11836.16	-1051.97	-297.24	3320.18	1717565.41	14415085.31	39°41'35.0180"N	80°43'32.6751"W	3333.46	95.116	1.40	0.26	1.3
14570.00	91.220	333.140	11834.35	-961.65	-213.29	3282.69	1717527.94	14415169.24	39°41'35.8489"N	80°43'33.1514"W	3289.61	93.717	6.09	0.21	-6.0
14664.00	91.620	332.010	11832.02	-870.53	-129.88	3239.41	1717484.68	14415252.61	39°41'36.6745"N	80°43'33.7018"W	3242.01	92.296	1.27	0.43	-1.2
14757.00	91.340	324.320	11829.62	-782.46	-50.95	3190.41	1717435.70	14415331.51	39°41'37.4559"N	80°43'34.3256"W	3190.82	90.915	8.27	-0.30	-8.2
14851.00	91.370	326.540	11827.39	-694.91	26.42	3137.09	1717382.40	14415408.85	39°41'38.2222"N	80°43'35.0046"W	3137.20	89.517	2.36	0.03	2.3
14944.00	91.610	325.180	11824.97	-608.03	103.37	3084.92	1717330.25	14415485.77	39°41'38.9842"N	80°43'35.6691"W	3086.65	88.081	1.48	0.26	-1.4
15037.00	91.770	328.770	11822.23	-520.55	181.29	3034.26	1717279.61	14415563.66	39°41'39.7559"N	80°43'36.3141"W	3039.67	86.581	3.86	0.17	3.8
15130.00	91.550	329.790	11819.54	-431.87	261.21	2986.77	1717232.14	14415643.55	39°41'40.5471"N	80°43'36.9184"W	2998.17	85.002	1.12	-0.24	1.1
15223.00	91.180	332.790	11817.32	-342.25	342.74	2942.12	1717187.50	14415725.05	39°41'41.3543"N	80°43'37.4866"W	2962.01	83.355	3.25	-0.40	3.2
15316.00	91.150	332.710	11815.43	-252.02	425.41	2899.54	1717144.95	14415807.68	39°41'42.1725"N	80°43'38.0280"W	2930.58	81.653	0.09	-0.03	-0.0
15409.00	91.120	332.980	11813.59	-161.76	508.14	2857.11	1717102.53	14415890.38	39°41'42.9914"N	80°43'38.5676"W	2901.94	79.915	0.29	-0.03	0.2
15502.00	91.120	332.860	11811.77	-71.46	590.93	2814.78	1717060.21	14415973.13	39°41'43.8108"N	80°43'39.1059"W	2876.14	78.144	0.13	0.00	-0.1
15595.00	91.210	332.880	11809.88	18.82	673.68	2772.38	1717017.83	14416055.85	39°41'44.6299"N	80°43'39.6451"W	2853.05	76.342	0.10	0.10	0.0
15687.00	91.150	332.710	11807.98	108.10	755.48	2730.33	1716975.80	14416137.62	39°41'45.4396"N	80°43'40.1799"W	2832.92	74.533	0.20	-0.07	-0.1
15781.00	91.270	331.040	11806.00	198.94	838.36	2686.03	1716931.51	14416220.47	39°41'46.2600"N	80°43'40.7434"W	2813.82	72.666	1.78	0.13	-1.7
15874.00	91.270	330.520	11803.94	288.34	919.51	2640.64	1716886.14	14416301.58	39°41'47.0633"N	80°43'41.3210"W	2796.15	70.801	0.56	0.00	-0.5
15967.00	91.020	330.710	11802.08	377.67	1000.53	2595.01	1716840.54	14416382.57	39°41'47.8654"N	80°43'41.9015"W	2781.21	68.916	0.34	-0.27	0.2
16060.00	91.090	330.910	11800.37	467.09	1081.70	2549.67	1716795.21	14416463.71	39°41'48.6690"N	80°43'42.4785"W	2769.63	67.011	0.23	0.08	0.2
16152.00	91.210	330.360	11798.52	555.47	1161.86	2504.56	1716750.12	14416543.84	39°41'49.4626"N	80°43'43.0524"W	2760.93	65.113	0.61	0.13	-0.6
16245.00	91.150	330.520	11796.61	644.72	1242.74	2458.69	1716704.27	14416624.69	39°41'50.2632"N	80°43'43.6361"W	2754.92	63.186	0.18	-0.06	0.1
16337.00	91.110	330.320	11794.79	733.01	1322.74	2413.28	1716658.88	14416704.65	39°41'51.0552"N	80°43'44.2139"W	2752.01	61.273	0.22	-0.04	-0.2



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Elmer N-18 HU AWP Proj: 25116'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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]
16430.00	91.050	330.360	11793.04	822.22	1403.54	2367.27	1716612.88	14416785.42	39°41'51.8551"N	80°43'44.7995"W	2752.07	59.337	0.08	-0.06	0.0
16524.00	91.080	330.450	11791.29	912.42	1485.26	2320.86	1716566.49	14416867.11	39°41'52.6641"N	80°43'45.3901"W	2755.43	57.382	0.10	0.03	0.1
16617.00	91.110	330.660	11789.51	1001.73	1566.23	2275.15	1716520.80	14416948.05	39°41'53.4657"N	80°43'45.9718"W	2762.13	55.456	0.23	0.03	0.2
16710.00	91.170	330.550	11787.66	1091.05	1647.24	2229.51	1716475.18	14417029.03	39°41'54.2677"N	80°43'46.5525"W	2772.02	53.542	0.13	0.06	-0.1
16803.00	91.050	330.670	11785.86	1180.38	1728.26	2183.88	1716429.56	14417110.01	39°41'55.0697"N	80°43'47.1332"W	2784.99	51.643	0.18	-0.13	0.1
16896.00	91.050	330.550	11784.16	1269.72	1809.28	2138.25	1716383.95	14417191.00	39°41'55.8717"N	80°43'47.7138"W	2800.99	49.764	0.13	0.00	-0.1
16988.00	90.870	330.710	11782.62	1358.10	1889.44	2093.13	1716338.85	14417271.13	39°41'56.6653"N	80°43'48.2879"W	2819.78	47.928	0.26	-0.20	0.1
17081.00	90.900	330.650	11781.18	1447.47	1970.52	2047.59	1716293.33	14417352.18	39°41'57.4679"N	80°43'48.8674"W	2841.76	46.099	0.07	0.03	-0.0
17174.00	90.830	330.830	11779.78	1536.87	2051.64	2002.14	1716247.90	14417433.27	39°41'58.2710"N	80°43'49.4457"W	2866.67	44.300	0.21	-0.08	0.1
17268.00	90.860	330.760	11778.39	1627.25	2133.68	1956.28	1716202.06	14417515.28	39°41'59.0832"N	80°43'50.0293"W	2894.76	42.516	0.08	0.03	-0.0
17361.00	90.990	331.210	11776.89	1716.75	2215.00	1911.18	1716156.97	14417596.56	39°41'59.8882"N	80°43'50.6032"W	2925.55	40.789	0.50	0.14	0.4
17454.00	91.050	329.790	11775.23	1806.03	2295.93	1865.39	1716111.21	14417677.46	39°42'0.6893"N	80°43'51.1859"W	2958.21	39.093	1.53	0.06	-1.5
17546.00	90.990	329.560	11773.60	1893.98	2375.33	1818.95	1716064.78	14417756.83	39°42'1.4754"N	80°43'51.7770"W	2991.78	37.444	0.26	-0.07	-0.2
17639.00	90.960	329.430	11772.01	1982.79	2455.44	1771.75	1716017.60	14417836.91	39°42'2.2685"N	80°43'52.3779"W	3027.92	35.813	0.14	-0.03	-0.1
17732.00	90.930	329.540	11770.48	2071.61	2535.55	1724.53	1715970.40	14417916.99	39°42'3.0616"N	80°43'52.9789"W	3066.44	34.221	0.12	-0.03	0.1
17826.00	90.870	329.590	11769.00	2161.41	2616.59	1676.92	1715922.81	14417997.99	39°42'3.8639"N	80°43'53.5849"W	3107.83	32.655	0.08	-0.06	0.0
17920.00	90.830	329.260	11767.61	2251.15	2697.51	1629.11	1715875.02	14418078.88	39°42'4.6651"N	80°43'54.1935"W	3151.28	31.129	0.35	-0.04	-0.3
18013.00	90.900	329.910	11766.20	2340.01	2777.70	1582.04	1715827.96	14418159.04	39°42'5.4590"N	80°43'54.7927"W	3196.63	29.664	0.70	0.08	0.7
18106.00	90.990	329.640	11764.67	2428.96	2858.05	1535.23	1715781.17	14418239.36	39°42'6.2544"N	80°43'55.3885"W	3244.28	28.243	0.31	0.10	-0.2
18199.00	90.990	329.730	11763.06	2517.87	2938.32	1488.29	1715734.25	14418319.60	39°42'7.0491"N	80°43'55.9859"W	3293.74	26.863	0.10	0.00	0.1
18293.00	91.050	329.810	11761.39	2607.77	3019.52	1440.97	1715686.95	14418400.77	39°42'7.8530"N	80°43'56.5882"W	3345.73	25.511	0.11	0.06	0.0
18386.00	91.080	329.740	11759.66	2696.72	3099.87	1394.17	1715640.16	14418481.08	39°42'8.6484"N	80°43'57.1840"W	3398.95	24.216	0.08	0.03	-0.0
18479.00	91.080	330.070	11757.91	2785.73	3180.32	1347.54	1715593.56	14418561.50	39°42'9.4448"N	80°43'57.7775"W	3454.02	22.963	0.35	0.00	0.3
18572.00	91.170	329.890	11756.08	2874.77	3260.82	1301.02	1715547.06	14418641.97	39°42'10.2419"N	80°43'58.3696"W	3510.79	21.751	0.22	0.10	-0.1
18666.00	91.170	329.820	11754.16	2964.71	3342.09	1253.82	1715499.88	14418723.21	39°42'11.0464"N	80°43'58.9704"W	3569.55	20.564	0.07	0.00	-0.0
18759.00	90.990	329.610	11752.41	3053.63	3422.39	1206.93	1715453.01	14418803.47	39°42'11.8413"N	80°43'59.5672"W	3628.97	19.426	0.30	-0.19	-0.2
18852.00	91.080	329.690	11750.73	3142.51	3502.63	1159.95	1715406.04	14418883.68	39°42'12.6357"N	80°44'0.1653"W	3689.70	18.323	0.13	0.10	0.0
18945.00	91.110	329.810	11748.95	3231.45	3582.95	1113.11	1715359.22	14418963.97	39°42'13.4309"N	80°44'0.7616"W	3751.87	17.258	0.13	0.03	0.1
19038.00	90.960	329.590	11747.27	3320.36	3663.23	1066.19	1715312.32	14419044.23	39°42'14.2257"N	80°44'1.3588"W	3815.24	16.228	0.29	-0.16	-0.2
19131.00	90.990	329.910	11745.69	3409.30	3743.56	1019.35	1715265.50	14419124.52	39°42'15.0209"N	80°44'1.9551"W	3879.86	15.232	0.35	0.03	0.3



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Actual Wellpath Report

Elmer N-18 HU AWP Proj: 25116'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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]
19223.00	90.930	329.740	11744.15	3497.32	3823.08	973.11	1715219.28	14419204.01	39°42'15.8082"N	80°44'2.5436"W	3944.98	14.281	0.20	-0.07	-0.1
19317.00	91.110	329.550	11742.48	3587.16	3904.18	925.62	1715171.80	14419285.08	39°42'16.6110"N	80°44'3.1482"W	4012.41	13.338	0.28	0.19	-0.2
19409.00	90.800	329.520	11740.94	3675.04	3983.47	878.98	1715125.18	14419364.33	39°42'17.3960"N	80°44'3.7420"W	4079.29	12.443	0.34	-0.34	-0.0
19503.00	91.050	329.650	11739.43	3764.85	4064.52	831.40	1715077.62	14419445.35	39°42'18.1984"N	80°44'4.3477"W	4148.68	11.560	0.30	0.27	0.1
19596.00	91.110	329.960	11737.67	3853.81	4144.89	784.63	1715030.87	14419525.69	39°42'18.9940"N	80°44'4.9430"W	4218.50	10.719	0.34	0.06	0.3
19689.00	90.860	329.950	11736.07	3942.85	4225.38	738.07	1714984.33	14419606.15	39°42'19.7909"N	80°44'5.5356"W	4289.36	9.908	0.27	-0.27	-0.0
19782.00	90.830	329.420	11734.70	4031.76	4305.66	691.14	1714937.41	14419686.39	39°42'20.5856"N	80°44'6.1331"W	4360.77	9.119	0.57	-0.03	-0.5
19875.00	90.830	329.760	11733.35	4120.62	4385.85	644.07	1714890.36	14419766.56	39°42'21.3795"N	80°44'6.7324"W	4432.89	8.354	0.37	0.00	0.3
19968.00	90.990	329.640	11731.88	4209.54	4466.14	597.15	1714843.47	14419846.81	39°42'22.1743"N	80°44'7.3296"W	4505.88	7.616	0.22	0.17	-0.1
20061.00	90.890	329.800	11730.35	4298.46	4546.44	550.27	1714796.60	14419927.08	39°42'22.9693"N	80°44'7.9265"W	4579.62	6.901	0.20	-0.11	0.1
20154.00	90.890	329.540	11728.91	4387.37	4626.70	503.31	1714749.66	14420007.31	39°42'23.7639"N	80°44'8.5243"W	4654.00	6.208	0.28	0.00	-0.2
20247.00	90.830	329.820	11727.51	4476.27	4706.97	456.36	1714702.73	14420087.55	39°42'24.5585"N	80°44'9.1219"W	4729.04	5.538	0.31	-0.06	0.3
20340.00	90.920	329.570	11726.09	4565.19	4787.25	409.44	1714655.83	14420167.80	39°42'25.3533"N	80°44'9.7192"W	4804.73	4.888	0.29	0.10	-0.2
20434.00	90.950	329.420	11724.56	4654.96	4868.23	361.73	1714608.14	14420248.75	39°42'26.1550"N	80°44'10.3266"W	4881.65	4.250	0.16	0.03	-0.1
20527.00	90.770	329.590	11723.16	4743.78	4948.36	314.54	1714560.97	14420328.84	39°42'26.9482"N	80°44'10.9274"W	4958.35	3.637	0.27	-0.19	0.1
20619.00	90.950	329.480	11721.78	4831.66	5027.65	267.90	1714514.35	14420408.10	39°42'27.7332"N	80°44'11.5212"W	5034.78	3.050	0.23	0.20	-0.1
20713.00	90.920	329.730	11720.25	4921.49	5108.72	220.35	1714466.81	14420489.14	39°42'28.5358"N	80°44'12.1266"W	5113.47	2.470	0.27	-0.03	0.2
20806.00	90.950	329.290	11718.73	5010.31	5188.85	173.17	1714419.65	14420569.23	39°42'29.3290"N	80°44'12.7273"W	5191.74	1.911	0.47	0.03	-0.4
20899.00	90.800	329.560	11717.31	5099.10	5268.91	125.87	1714372.37	14420649.26	39°42'30.1216"N	80°44'13.3295"W	5270.41	1.368	0.33	-0.16	0.2
20992.00	90.800	329.450	11716.01	5187.92	5349.04	78.68	1714325.20	14420729.36	39°42'30.9149"N	80°44'13.9303"W	5349.61	0.843	0.12	0.00	-0.1
21086.00	90.800	329.680	11714.70	5277.73	5430.07	31.07	1714277.61	14420810.37	39°42'31.7171"N	80°44'14.5365"W	5430.16	0.328	0.24	0.00	0.2
21179.00	90.830	329.470	11713.38	5366.59	5510.26	-16.02	1714230.53	14420890.52	39°42'32.5110"N	80°44'15.1360"W	5510.28	359.833	0.23	0.03	-0.2
21272.00	90.800	329.640	11712.05	5455.44	5590.43	-63.14	1714183.43	14420970.66	39°42'33.3046"N	80°44'15.7359"W	5590.78	359.353	0.19	-0.03	0.1
21365.00	90.890	329.710	11710.68	5544.35	5670.69	-110.09	1714136.50	14421050.89	39°42'34.0992"N	80°44'16.3337"W	5671.76	358.888	0.12	0.10	0.0
21458.00	90.800	329.850	11709.31	5633.30	5751.05	-156.90	1714089.71	14421131.21	39°42'34.8947"N	80°44'16.9296"W	5753.19	358.437	0.18	-0.10	0.1
21552.00	91.140	329.550	11707.72	5723.17	5832.19	-204.32	1714042.31	14421212.33	39°42'35.6980"N	80°44'17.5333"W	5835.77	357.994	0.48	0.36	-0.3
21645.00	90.920	329.310	11706.05	5811.95	5912.26	-251.61	1713995.04	14421292.36	39°42'36.4906"N	80°44'18.1354"W	5917.61	357.563	0.35	-0.24	-0.2
21738.00	91.200	329.680	11704.33	5900.77	5992.37	-298.81	1713947.86	14421372.44	39°42'37.2837"N	80°44'18.7364"W	5999.81	357.145	0.50	0.30	0.4
21830.00	91.110	329.810	11702.47	5988.74	6071.82	-345.15	1713901.53	14421451.86	39°42'38.0702"N	80°44'19.3264"W	6081.62	356.747	0.17	-0.10	0.1
21923.00	91.140	329.570	11700.65	6077.65	6152.09	-392.08	1713854.63	14421532.10	39°42'38.8649"N	80°44'19.9239"W	6164.57	356.353	0.26	0.03	-0.2



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Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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]
22016.00	91.110	329.600	11698.82	6166.50	6232.28	-439.15	1713807.57	14421612.25	39°42'39.6587"N	80°44'20.5233"W	6247.73	355.969	0.05	-0.03	0.00
22109.00	91.020	329.750	11697.09	6255.40	6312.54	-486.10	1713760.64	14421692.48	39°42'40.4533"N	80°44'21.1210"W	6331.23	355.597	0.19	-0.10	0.10
22202.00	91.230	329.640	11695.27	6344.31	6392.82	-533.02	1713713.74	14421772.73	39°42'41.2480"N	80°44'21.7184"W	6415.00	355.234	0.25	0.23	-0.10
22295.00	91.080	329.620	11693.39	6433.18	6473.04	-580.03	1713666.75	14421852.92	39°42'42.0421"N	80°44'22.3169"W	6498.97	354.880	0.16	-0.16	-0.00
22388.00	91.110	329.420	11691.61	6522.01	6553.17	-627.19	1713619.61	14421933.02	39°42'42.8354"N	80°44'22.9175"W	6583.12	354.533	0.22	0.03	-0.20
22482.00	90.550	329.630	11690.25	6611.80	6634.18	-674.86	1713571.96	14422013.99	39°42'43.6374"N	80°44'23.5244"W	6668.41	354.192	0.64	-0.60	0.20
22575.00	90.580	329.520	11689.33	6700.66	6714.37	-721.95	1713524.88	14422094.15	39°42'44.4312"N	80°44'24.1241"W	6753.07	353.863	0.12	0.03	-0.10
22667.00	90.620	329.660	11688.37	6788.57	6793.71	-768.52	1713478.33	14422173.46	39°42'45.2166"N	80°44'24.7170"W	6837.04	353.546	0.16	0.04	0.10
22761.00	90.520	329.680	11687.44	6878.44	6874.84	-815.99	1713430.89	14422254.56	39°42'46.0198"N	80°44'25.3214"W	6923.09	353.231	0.11	-0.11	0.00
22855.00	90.610	330.700	11686.51	6968.55	6956.39	-862.71	1713384.18	14422336.08	39°42'46.8271"N	80°44'25.9163"W	7009.68	352.930	1.09	0.10	1.00
22948.00	90.710	330.660	11685.44	7057.92	7037.47	-908.25	1713338.66	14422417.13	39°42'47.6297"N	80°44'26.4960"W	7095.84	352.646	0.12	0.11	-0.00
23041.00	90.650	330.770	11684.33	7147.31	7118.58	-953.74	1713293.19	14422498.21	39°42'48.4326"N	80°44'27.0750"W	7182.19	352.369	0.13	-0.06	0.10
23134.00	90.520	330.780	11683.38	7236.73	7199.74	-999.14	1713247.80	14422579.33	39°42'49.2360"N	80°44'27.6530"W	7268.74	352.099	0.14	-0.14	0.00
23228.00	90.770	330.550	11682.33	7327.05	7281.68	-1045.19	1713201.77	14422661.24	39°42'50.0471"N	80°44'28.2393"W	7356.31	351.832	0.36	0.27	-0.20
23321.00	90.740	330.820	11681.10	7416.43	7362.76	-1090.72	1713156.26	14422742.29	39°42'50.8497"N	80°44'28.8189"W	7443.12	351.573	0.29	-0.03	0.20
23413.00	90.680	330.930	11679.96	7504.93	7443.13	-1135.50	1713111.50	14422822.62	39°42'51.6452"N	80°44'29.3889"W	7529.24	351.326	0.14	-0.07	0.10
23505.00	90.550	330.260	11678.97	7593.30	7523.27	-1180.66	1713066.35	14422902.73	39°42'52.4385"N	80°44'29.9639"W	7615.35	351.081	0.74	-0.14	-0.70
23600.00	90.830	330.780	11677.83	7684.52	7605.96	-1227.41	1713019.62	14422985.39	39°42'53.2571"N	80°44'30.5591"W	7704.36	350.833	0.62	0.29	0.50
23694.00	91.080	330.640	11676.26	7774.86	7687.93	-1273.39	1712973.66	14423067.33	39°42'54.0685"N	80°44'31.1445"W	7792.68	350.595	0.30	0.27	-0.10
23787.00	90.980	330.500	11674.59	7864.18	7768.92	-1319.08	1712927.99	14423148.28	39°42'54.8701"N	80°44'31.7261"W	7880.11	350.364	0.18	-0.11	-0.10
23880.00	91.010	330.980	11672.98	7953.57	7850.04	-1364.53	1712882.56	14423229.37	39°42'55.6731"N	80°44'32.3047"W	7967.75	350.139	0.52	0.03	0.50
23973.00	90.860	330.500	11671.46	8042.96	7931.16	-1409.98	1712837.13	14423310.47	39°42'56.4761"N	80°44'32.8834"W	8055.52	349.919	0.54	-0.16	-0.50
24066.00	91.010	330.730	11669.94	8132.30	8012.19	-1455.61	1712791.52	14423391.46	39°42'57.2782"N	80°44'33.4643"W	8143.34	349.703	0.30	0.16	0.20
24158.00	91.200	330.620	11668.17	8220.70	8092.38	-1500.66	1712746.49	14423471.62	39°42'58.0720"N	80°44'34.0378"W	8230.35	349.494	0.24	0.21	-0.10
24252.00	91.100	330.450	11666.28	8310.96	8174.21	-1546.88	1712700.28	14423553.41	39°42'58.8820"N	80°44'34.6264"W	8319.29	349.284	0.21	-0.11	-0.10
24346.00	91.290	330.620	11664.32	8401.21	8256.03	-1593.11	1712654.07	14423635.21	39°42'59.6919"N	80°44'35.2149"W	8408.33	349.078	0.27	0.20	0.10
24439.00	91.290	330.860	11662.23	8490.60	8337.15	-1638.56	1712608.64	14423716.29	39°43'0.4949"N	80°44'35.7935"W	8496.64	348.881	0.26	0.00	0.20
24531.00	91.290	330.720	11660.15	8579.04	8417.43	-1683.44	1712563.77	14423796.54	39°43'1.2895"N	80°44'36.3650"W	8584.12	348.690	0.15	0.00	-0.10
24625.00	92.060	331.460	11657.41	8669.53	8499.68	-1728.87	1712518.37	14423878.75	39°43'2.1037"N	80°44'36.9432"W	8673.72	348.503	1.14	0.82	0.70
24718.00	93.600	330.820	11652.82	8759.00	8581.02	-1773.70	1712473.55	14423960.07	39°43'2.9089"N	80°44'37.5140"W	8762.42	348.321	1.79	1.66	-0.60



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Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

WELLPATH DATA (305 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]
24810.00	95.050	330.910	11645.88	8847.24	8661.15	-1818.36	1712428.91	14424040.16	39°43'3.7020"N	80°44'38.0826"W	8849.97	348.143	1.58	1.58	0.10
24903.00	96.690	331.060	11636.37	8936.28	8742.05	-1863.23	1712384.06	14424121.03	39°43'4.5028"N	80°44'38.6539"W	8938.41	347.968	1.77	1.76	0.10
24997.00	98.490	330.950	11623.95	9025.97	8823.55	-1908.40	1712338.91	14424202.49	39°43'5.3094"N	80°44'39.2288"W	9027.57	347.796	1.92	1.91	-0.10
25091.00	99.980	330.950	11608.87	9115.26	8904.65	-1953.45	1712293.88	14424283.57	39°43'6.1123"N	80°44'39.8024"W	9116.40	347.627	1.59	1.59	0.00
25116.00†	99.980	330.950	11604.53	9138.96	8926.18	-1965.40	1712281.93	14424305.08	39°43'6.3253"N	80°44'39.9546"W	9139.99	347.583	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Elmer N-18 HU AWB Ref Wellpath: Elmer N-18 HU AWP Proj: 25116'

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	33.00	153.00	120.00	33.00	153.00	0.00	0.00	0.23	-0.30
26in Open Hole	153.00	1074.00	921.00	153.00	1073.96	0.23	-0.33	3.67	-7.30
20in Casing Surface	33.00	1074.00	1041.00	33.00	1073.96	0.00	0.00	3.67	-7.30
17.5in Open Hole	1074.00	2879.00	1805.00	1073.96	2878.88	3.67	-7.36	0.55	-1.50
13.375in Casing Intermediate	33.00	2879.00	2846.00	33.00	2878.88	0.00	0.00	0.55	-1.50
12.25in Open Hole	2879.00	10741.00	7862.00	2878.88	10561.86	0.55	-1.57	-816.07	1357.00
9.625in Casing Intermediate	33.00	10741.00	10708.00	33.00	10561.86	0.00	0.00	-816.07	1357.00
8.5in Open Hole	10741.00	25116.00	14375.00	10561.86	11604.53	-816.07	1357.05	8926.18	-1965.40
5.5in Casing Production	33.00	25116.00	25083.00	33.00	11604.53	0.00	0.00	8926.18	-1965.40



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Slot	Slot 18		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Elmer N-18 HU BHL Rev-1	11471.70	9301.27	-2194.68	1712052.74	14424680.03	39°43'10.0387"N	80°44'42.8751"W	point
Elmer N-18 HU LP Rev-1	11804.95	-1287.30	2147.77	1716393.47	14414095.64	39°41'25.2686"N	80°43'47.7112"W	point

WELLPATH COMPOSITION - Ref Wellbore: Elmer N-18 HU AWB Ref Wellpath: Elmer N-18 HU AWP Proj: 25116'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
33.00	1104.00	OWSG MWD rev2 - Standard	01_MWD [OWSG MWD Rev.2+Standard] <26"> (177' - 1104')	Elmer N-18 HU AWB	8/23/20
1104.00	2939.99	OWSG MWD rev2 - Standard	02_MWD [OWSG MWD Rev.2+Standard] <17-1/2">(1104') (1148' - 2939.99')	Elmer N-18 HU AWB	8/23/20
2939.99	10705.98	OWSG MWD rev2 - Standard	03_MWD [OWSG MWD Rev.2+Standard] <12-1/4">(2939.99') (3035.99' - 10705.98')	Elmer N-18 HU AWB	8/23/20
10705.98	25116.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04_BH ATCurve+SQC IFR1+SAG+FDIR <8-1/2">(10705.98')(10795'-25091')	Elmer N-18 HU AWB	9/4/202



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Operator	EQT (TUG HILL OPERATING, LLC)	Well	Elmer N-18 HU
Field	Wetzel	API	47-103-03467-0000
Facility	Elmer Pad	Wellbore	Elmer N-18 HU AWB
Slot	Slot 18		

COMMENTS

Wellpath general comments

API: 47-103-03467-0000

BH Job #: 111941722

Rig: Nabors X08

Duration: 9/16/2023-9/24/2023

01_MWD [OWSG MWD Rev.2+Standard]<26"> (177' - 1104')

02_MWD [OWSG MWD Rev.2+Standard] <17-1/2">(1104') (1148' - 2939.99')

03_MWD [OWSG MWD Rev.2+Standard] <12-1/4">(2939.99') (3035.99' - 10705.98')

04_BH ATCurve+SQC IFR1+SAG+FDIR <8-1/2">(10705.98')(10795'-25091')

Landing Pt. @ 12433' MD

Final Survey @ 25091' MD

Projected MD at TD: 25116'