



# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Scurdan
Scale	0.999610	Report Generated	1/22/2024 at 7:41:12 AM
Convergence at slot	0.21° 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	34.45	23.55	1732327.19	14464583.59	39°49'43.8960"N	80°40'21.4464"W
Facility Reference Pt			1732303.65	14464549.15	39°49'43.5564"N	80°40'21.7498"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	1374.00ft
Horizontal Reference Pt	Slot	Patterson 294 (RKB) to Mean Sea Level	1374.00ft
Vertical Reference Pt	Patterson 294 (RKB)	Patterson 294 (RKB) to Ground Level at Slot (Slot 07)	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	141.51°

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### WELLPATH DATA (228 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	97.190	0.00	0.00	0.00	0.00	1732327.19	14464583.59	39°49'43.8960"N	80°40'21.4464"W	0.00	0.000	0.00	0.00	0.00
28.00	0.000	97.190	28.00	0.00	0.00	0.00	1732327.19	14464583.59	39°49'43.8960"N	80°40'21.4464"W	0.00	0.000	0.00	0.00	0.00
100.00	0.340	97.190	100.00	0.15	-0.03	0.21	1732327.40	14464583.56	39°49'43.8957"N	80°40'21.4437"W	0.21	97.190	0.47	0.47	0.00
200.00	0.370	90.580	200.00	0.57	-0.07	0.83	1732328.02	14464583.52	39°49'43.8953"N	80°40'21.4357"W	0.83	94.629	0.05	0.03	-6.61
300.00	0.610	98.770	299.99	1.16	-0.15	1.68	1732328.87	14464583.44	39°49'43.8944"N	80°40'21.4249"W	1.68	95.161	0.25	0.24	8.19
400.00	0.880	95.800	399.99	2.09	-0.31	2.97	1732330.16	14464583.28	39°49'43.8928"N	80°40'21.4083"W	2.98	95.969	0.27	0.27	-2.97
500.00	1.100	93.110	499.97	3.26	-0.44	4.69	1732331.88	14464583.15	39°49'43.8915"N	80°40'21.3863"W	4.71	95.359	0.22	0.22	-2.69
600.00	1.120	93.720	599.95	4.56	-0.56	6.62	1732333.81	14464583.03	39°49'43.8903"N	80°40'21.3615"W	6.65	94.793	0.02	0.02	0.61
700.00	0.680	92.600	699.94	5.60	-0.65	8.19	1732335.38	14464582.94	39°49'43.8893"N	80°40'21.3414"W	8.22	94.507	0.44	-0.44	-1.12
800.00	0.260	220.260	799.94	6.04	-0.85	8.64	1732335.83	14464582.74	39°49'43.8873"N	80°40'21.3357"W	8.68	95.593	0.86	-0.42	127.66
900.00	1.070	270.120	899.93	5.50	-1.02	7.56	1732334.75	14464582.57	39°49'43.8857"N	80°40'21.3495"W	7.63	97.664	0.92	0.81	49.86
1000.00	1.370	274.490	999.91	4.10	-0.92	5.43	1732332.62	14464582.67	39°49'43.8867"N	80°40'21.3768"W	5.51	99.627	0.31	0.30	4.37
1100.00	1.740	283.320	1099.87	2.09	-0.48	2.76	1732329.95	14464583.11	39°49'43.8912"N	80°40'21.4110"W	2.80	99.816	0.44	0.37	8.83
1200.00	1.320	305.380	1199.84	-0.21	0.54	0.35	1732327.54	14464584.13	39°49'43.9013"N	80°40'21.4419"W	0.64	32.808	0.72	-0.42	22.06
1300.00	1.510	334.060	1299.81	-2.60	2.39	-1.17	1732326.02	14464585.98	39°49'43.9197"N	80°40'21.4612"W	2.66	333.951	0.72	0.19	28.68
1400.00	1.250	16.880	1399.78	-4.50	4.62	-1.43	1732325.76	14464588.21	39°49'43.9417"N	80°40'21.4645"W	4.83	342.821	1.04	-0.26	42.82
1500.00	0.830	25.250	1499.76	-5.44	6.32	-0.80	1732326.39	14464589.91	39°49'43.9585"N	80°40'21.4564"W	6.37	352.763	0.45	-0.42	8.37
1600.00	0.230	60.110	1599.76	-5.73	7.07	-0.32	1732326.87	14464590.66	39°49'43.9659"N	80°40'21.4501"W	7.08	357.415	0.65	-0.60	34.86
1700.00	0.500	49.980	1699.76	-5.72	7.45	0.19	1732327.38	14464591.04	39°49'43.9697"N	80°40'21.4436"W	7.46	1.451	0.28	0.27	-10.13
1800.00	1.320	39.770	1799.74	-5.96	8.62	1.26	1732328.45	14464592.21	39°49'43.9811"N	80°40'21.4298"W	8.71	8.316	0.83	0.82	-10.21
1900.00	1.720	39.440	1899.71	-6.51	10.66	2.95	1732330.14	14464594.25	39°49'44.0013"N	80°40'21.4081"W	11.06	15.464	0.40	0.40	-0.33
2000.00	2.030	27.680	1999.65	-7.54	13.39	4.73	1732331.91	14464596.98	39°49'44.0282"N	80°40'21.3852"W	14.20	19.440	0.49	0.31	-11.76
2100.00	2.630	28.520	2099.57	-9.15	16.98	6.64	1732333.83	14464600.56	39°49'44.0635"N	80°40'21.3604"W	18.23	21.376	0.60	0.60	0.84
2200.00	2.570	45.340	2199.47	-10.29	20.57	9.33	1732336.52	14464604.15	39°49'44.0989"N	80°40'21.3258"W	22.59	24.411	0.76	-0.06	16.82
2300.00	2.260	56.640	2299.38	-10.35	23.23	12.58	1732339.76	14464606.81	39°49'44.1251"N	80°40'21.2841"W	26.41	28.433	0.57	-0.31	11.30
2400.00	1.440	50.380	2399.33	-10.20	25.11	15.19	1732342.38	14464608.69	39°49'44.1436"N	80°40'21.2505"W	29.35	31.170	0.84	-0.82	-6.26
2500.00	1.060	36.350	2499.30	-10.47	26.66	16.71	1732343.89	14464610.24	39°49'44.1589"N	80°40'21.2310"W	31.46	32.075	0.49	-0.38	-14.03
2600.00	1.280	25.330	2599.28	-11.20	28.41	17.73	1732344.92	14464611.99	39°49'44.1762"N	80°40'21.2177"W	33.49	31.968	0.31	0.22	-11.02
2700.00	3.600	44.560	2699.19	-12.08	31.66	20.41	1732347.60	14464615.24	39°49'44.2082"N	80°40'21.1832"W	37.67	32.813	2.43	2.32	19.23
2800.00	6.030	44.570	2798.83	-13.09	37.64	26.30	1732353.48	14464621.22	39°49'44.2670"N	80°40'21.1074"W	45.92	34.947	2.43	2.43	0.01



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Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## WELLPATH DATA (228 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]
2900.00	8.090	41.650	2898.06	-14.93	46.64	34.67	1732361.84	14464630.21	39°49'44.3557"N	80°40'20.9998"W	58.11	36.623	2.09	2.06	-2.92
3000.00	10.250	39.320	2996.78	-18.01	58.78	44.98	1732372.15	14464642.35	39°49'44.4753"N	80°40'20.8670"W	74.02	37.424	2.19	2.16	-2.33
3100.00	12.760	41.050	3094.76	-21.90	74.00	57.87	1732385.04	14464657.56	39°49'44.6252"N	80°40'20.7011"W	93.94	38.030	2.53	2.51	1.73
3200.00	13.970	42.260	3192.05	-25.84	91.26	73.25	1732400.41	14464674.81	39°49'44.7952"N	80°40'20.5033"W	117.02	38.751	1.24	1.21	1.21
3300.00	15.390	43.100	3288.79	-29.73	109.88	90.43	1732417.58	14464693.43	39°49'44.9787"N	80°40'20.2821"W	142.31	39.453	1.44	1.42	0.84
3400.00	17.410	43.840	3384.71	-33.66	130.36	109.86	1732437.01	14464713.90	39°49'45.1804"N	80°40'20.0321"W	170.48	40.122	2.03	2.02	0.74
3500.00	19.180	44.660	3479.66	-37.62	152.84	131.77	1732458.91	14464736.37	39°49'45.4017"N	80°40'19.7502"W	201.80	40.766	1.79	1.77	0.82
3600.00	20.760	44.640	3573.64	-41.70	177.14	155.77	1732482.90	14464760.66	39°49'45.6409"N	80°40'19.4414"W	235.89	41.328	1.58	1.58	-0.02
3700.00	22.810	45.240	3666.49	-45.94	203.40	181.99	1732509.11	14464786.91	39°49'45.8995"N	80°40'19.1041"W	272.93	41.821	2.06	2.05	0.60
3800.00	23.480	44.950	3758.44	-50.33	231.15	209.83	1732536.94	14464814.65	39°49'46.1727"N	80°40'18.7460"W	312.18	42.232	0.68	0.67	-0.29
3900.00	23.570	44.160	3850.13	-55.16	259.59	237.83	1732564.93	14464843.08	39°49'46.4528"N	80°40'18.3857"W	352.07	42.496	0.33	0.09	-0.79
4000.00	23.510	44.690	3941.81	-60.09	288.11	265.79	1732592.87	14464871.59	39°49'46.7337"N	80°40'18.0260"W	391.99	42.692	0.22	-0.06	0.53
4100.00	22.760	45.650	4033.77	-64.43	315.81	293.65	1732620.72	14464899.28	39°49'47.0064"N	80°40'17.6676"W	431.24	42.917	0.84	-0.75	0.96
4200.00	21.320	47.640	4126.46	-67.63	341.59	320.92	1732647.98	14464925.04	39°49'47.2601"N	80°40'17.3169"W	468.69	43.213	1.62	-1.44	1.99
4300.00	20.330	47.410	4219.93	-70.10	365.59	347.14	1732674.19	14464949.04	39°49'47.4964"N	80°40'16.9797"W	504.15	43.517	0.99	-0.99	-0.23
4400.00	20.090	44.570	4313.77	-73.42	389.58	371.98	1732699.03	14464973.02	39°49'47.7326"N	80°40'16.6601"W	538.65	43.676	1.01	-0.24	-2.84
4500.00	19.940	44.760	4407.73	-77.50	413.93	396.04	1732723.08	14464997.35	39°49'47.9723"N	80°40'16.3506"W	572.87	43.735	0.16	-0.15	0.19
4600.00	22.610	48.420	4500.91	-80.54	438.80	422.43	1732749.46	14465022.22	39°49'48.2171"N	80°40'16.0111"W	609.09	43.911	2.98	2.67	3.66
4700.00	25.030	51.890	4592.39	-81.44	464.62	453.46	1732780.48	14465048.02	39°49'48.4712"N	80°40'15.6122"W	649.23	44.304	2.80	2.42	3.47
4800.00	27.200	47.930	4682.18	-82.72	492.99	487.08	1732814.08	14465076.39	39°49'48.7504"N	80°40'15.1799"W	693.03	44.654	2.78	2.17	-3.96
4900.00	26.930	43.660	4771.24	-87.25	524.69	519.68	1732846.67	14465108.08	39°49'49.0624"N	80°40'14.7605"W	738.49	44.725	1.96	-0.27	-4.27
5000.00	26.020	40.590	4860.76	-94.49	557.73	549.59	1732876.56	14465141.10	39°49'49.3879"N	80°40'14.3756"W	783.02	44.579	1.64	-0.91	-3.07
5100.00	24.640	41.730	4951.14	-102.19	589.95	577.74	1732904.70	14465173.31	39°49'49.7052"N	80°40'14.0133"W	825.72	44.401	1.46	-1.38	1.14
5200.00	23.450	43.330	5042.46	-108.56	619.98	605.27	1732932.22	14465203.33	39°49'50.0010"N	80°40'13.6590"W	866.44	44.312	1.36	-1.19	1.60
5300.00	23.150	43.900	5134.31	-114.00	648.62	632.55	1732959.49	14465231.95	39°49'50.2830"N	80°40'13.3079"W	906.00	44.282	0.38	-0.30	0.57
5400.00	23.680	43.420	5226.07	-119.43	677.37	659.99	1732986.92	14465260.69	39°49'50.5662"N	80°40'12.9549"W	945.73	44.255	0.56	0.53	-0.48
5500.00	23.950	44.750	5317.56	-124.64	706.37	688.08	1733015.00	14465289.68	39°49'50.8517"N	80°40'12.5935"W	986.11	44.249	0.60	0.27	1.33
5600.00	23.180	45.890	5409.22	-128.96	734.48	716.50	1733043.41	14465317.78	39°49'51.1285"N	80°40'12.2278"W	1026.08	44.290	0.89	-0.77	1.14
5700.00	22.470	45.320	5501.39	-132.95	761.62	744.22	1733071.12	14465344.91	39°49'51.3957"N	80°40'11.8712"W	1064.86	44.338	0.74	-0.71	-0.57
5800.00	22.090	46.100	5593.92	-136.78	788.09	771.36	1733098.24	14465371.37	39°49'51.6564"N	80°40'11.5222"W	1102.76	44.385	0.48	-0.38	0.78



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5900.00	21.650	46.120	5686.73	-140.29	813.92	798.20	1733125.08	14465397.19	39°49'51.9106"N	80°40'11.1768"W	1139.99	44.441	0.44	-0.44	0.02
6000.00	21.550	44.170	5779.71	-144.36	839.88	824.29	1733151.16	14465423.14	39°49'52.1662"N	80°40'10.8411"W	1176.80	44.463	0.72	-0.10	-1.95
6100.00	21.710	42.700	5872.66	-149.54	866.64	849.63	1733176.49	14465449.89	39°49'52.4298"N	80°40'10.5151"W	1213.65	44.432	0.56	0.16	-1.47
6200.00	21.450	42.380	5965.65	-155.28	893.74	874.50	1733201.35	14465476.98	39°49'52.6967"N	80°40'10.1950"W	1250.41	44.377	0.29	-0.26	-0.32
6300.00	21.640	39.530	6058.67	-162.01	921.47	898.56	1733225.40	14465504.70	39°49'52.9698"N	80°40'9.8853"W	1287.06	44.279	1.06	0.19	-2.85
6321.00	21.710	38.770	6078.19	-163.67	927.49	903.46	1733230.30	14465510.71	39°49'53.0291"N	80°40'9.8222"W	1294.79	44.248	1.38	0.33	-3.62
6388.00	21.030	33.110	6140.59	-170.19	947.22	917.79	1733244.62	14465530.44	39°49'53.2236"N	80°40'9.6376"W	1318.92	44.096	3.24	-1.01	-8.45
6483.00	21.820	56.030	6229.18	-174.19	971.41	941.78	1733268.60	14465554.62	39°49'53.4617"N	80°40'9.3289"W	1352.99	44.113	8.80	0.83	24.13
6578.00	23.310	80.670	6317.10	-163.62	984.35	975.05	1733301.86	14465567.55	39°49'53.5884"N	80°40'8.9019"W	1385.52	44.728	10.01	1.57	25.94
6673.00	27.620	95.820	6402.94	-139.04	985.16	1015.57	1733342.36	14465568.37	39°49'53.5950"N	80°40'8.3825"W	1414.89	45.871	8.19	4.54	15.95
6768.00	33.770	108.900	6484.68	-101.34	974.36	1062.55	1733389.33	14465557.56	39°49'53.4865"N	80°40'7.7808"W	1441.66	47.479	9.52	6.47	13.77
6864.00	40.090	120.890	6561.48	-49.81	949.79	1114.44	1733441.20	14465533.00	39°49'53.2418"N	80°40'7.1168"W	1464.27	49.561	9.96	6.58	12.49
6959.00	45.370	126.670	6631.27	11.56	913.86	1167.87	1733494.60	14465497.09	39°49'52.8847"N	80°40'6.4337"W	1482.92	51.957	6.92	5.56	6.08
7055.00	52.440	135.050	6694.39	82.55	866.42	1222.27	1733548.98	14465449.67	39°49'52.4139"N	80°40'5.7386"W	1498.21	54.669	9.86	7.36	8.73
7150.00	60.980	140.500	6746.52	161.69	807.58	1275.42	1733602.11	14465390.85	39°49'51.8305"N	80°40'5.0601"W	1509.60	57.659	10.18	8.99	5.74
7246.00	68.710	140.840	6787.29	248.51	740.41	1330.44	1733657.11	14465323.71	39°49'51.1647"N	80°40'4.3580"W	1522.59	60.903	8.06	8.05	0.35
7341.00	76.040	144.430	6816.05	338.95	668.48	1385.30	1733711.95	14465251.81	39°49'50.4518"N	80°40'3.6583"W	1538.15	64.240	8.51	7.72	3.78
7436.00	84.420	147.310	6832.16	432.21	591.04	1437.75	1733764.38	14465174.40	39°49'49.6846"N	80°40'2.9897"W	1554.50	67.653	9.31	8.82	3.03
7530.00	89.200	148.560	6837.38	525.44	511.53	1487.56	1733814.16	14465094.92	39°49'48.8970"N	80°40'2.3551"W	1573.05	71.023	5.26	5.09	1.33
7625.00	89.320	149.620	6838.61	619.60	430.03	1536.35	1733862.94	14465013.45	39°49'48.0898"N	80°40'1.7335"W	1595.40	74.363	1.12	0.13	1.12
7719.00	89.540	149.350	6839.55	712.69	349.05	1584.08	1733910.65	14464932.51	39°49'47.2877"N	80°40'1.1256"W	1622.08	77.573	0.37	0.23	-0.29
7814.00	88.610	149.800	6841.08	806.74	267.15	1632.18	1733958.73	14464850.63	39°49'46.4765"N	80°40'0.5129"W	1653.90	80.705	1.09	-0.98	0.47
7909.00	88.580	149.560	6843.41	900.74	185.17	1680.13	1734006.66	14464768.68	39°49'45.6646"N	80°39'59.9023"W	1690.30	83.711	0.25	-0.03	-0.25
8004.00	88.550	149.570	6845.79	994.78	103.28	1728.24	1734054.75	14464686.83	39°49'44.8536"N	80°39'59.2896"W	1731.32	86.580	0.03	-0.03	0.01
8099.00	88.640	149.710	6848.12	1088.79	21.33	1776.24	1734102.73	14464604.92	39°49'44.0420"N	80°39'58.6782"W	1776.37	89.312	0.18	0.09	0.15
8194.00	88.550	149.670	6850.45	1182.80	-60.66	1824.17	1734150.64	14464522.96	39°49'43.2299"N	80°39'58.0678"W	1825.18	91.904	0.10	-0.09	-0.04
8289.00	88.490	149.540	6852.90	1276.82	-142.57	1872.22	1734198.67	14464441.07	39°49'42.4186"N	80°39'57.4559"W	1877.64	94.355	0.15	-0.06	-0.14
8384.00	88.610	149.080	6855.31	1370.91	-224.24	1920.69	1734247.13	14464359.44	39°49'41.6098"N	80°39'56.8385"W	1933.73	96.659	0.50	0.13	-0.48
8479.00	88.670	149.890	6857.56	1464.96	-306.06	1968.91	1734295.33	14464277.65	39°49'40.7994"N	80°39'56.2243"W	1992.56	98.836	0.85	0.06	0.85
8574.00	88.330	149.490	6860.05	1558.97	-388.04	2016.84	1734343.24	14464195.70	39°49'39.9874"N	80°39'55.6139"W	2053.83	100.891	0.55	-0.36	-0.42



# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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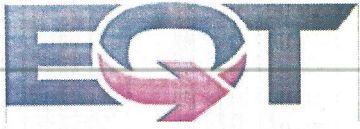


## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## WELLPATH DATA (228 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]
8669.00	88.180	150.030	6862.94	1652.94	-470.08	2064.66	1734391.04	14464113.70	39°49'39.1749"N	80°39'55.0049"W	2117.50	102.826	0.59	-0.16	0.57
8763.00	87.930	149.660	6866.13	1745.89	-551.31	2111.86	1734438.22	14464032.50	39°49'38.3704"N	80°39'54.4039"W	2182.63	104.631	0.47	-0.27	-0.39
8858.00	88.340	149.020	6869.22	1839.96	-632.99	2160.27	1734486.62	14463950.85	39°49'37.5614"N	80°39'53.7872"W	2251.10	106.331	0.80	0.43	-0.67
8953.00	88.270	149.640	6872.03	1934.03	-714.66	2208.71	1734535.03	14463869.21	39°49'36.7525"N	80°39'53.1703"W	2321.45	107.930	0.66	-0.07	0.65
9048.00	88.240	152.680	6874.93	2027.63	-797.83	2254.51	1734580.81	14463786.07	39°49'35.9289"N	80°39'52.5873"W	2391.51	109.488	3.20	-0.03	3.20
9143.00	88.210	155.900	6877.87	2120.22	-883.37	2295.70	1734621.99	14463700.56	39°49'35.0820"N	80°39'52.0635"W	2459.79	111.046	3.39	-0.03	3.39
9238.00	88.400	159.150	6880.68	2211.48	-971.11	2331.99	1734658.27	14463612.86	39°49'34.2136"N	80°39'51.6025"W	2526.11	112.608	3.43	0.20	3.42
9333.00	88.460	161.510	6883.28	2301.36	-1060.52	2363.96	1734690.22	14463523.48	39°49'33.3287"N	80°39'51.1972"W	2590.94	114.162	2.48	0.06	2.48
9427.00	88.550	163.540	6885.74	2389.08	-1150.15	2392.17	1734718.42	14463433.89	39°49'32.4420"N	80°39'50.8398"W	2654.30	115.678	2.16	0.10	2.16
9523.00	88.270	166.310	6888.40	2477.13	-1242.80	2417.13	1734743.37	14463341.28	39°49'31.5254"N	80°39'50.5244"W	2717.91	117.211	2.90	-0.29	2.89
9617.00	88.460	167.610	6891.08	2561.97	-1334.34	2438.33	1734764.56	14463249.78	39°49'30.6200"N	80°39'50.2571"W	2779.55	118.689	1.40	0.20	1.38
9712.00	88.520	164.480	6893.59	2648.35	-1426.49	2461.23	1734787.45	14463157.66	39°49'29.7084"N	80°39'49.9680"W	2844.73	120.096	3.29	0.06	-3.29
9807.00	88.610	159.660	6895.97	2737.25	-1516.82	2490.46	1734816.67	14463067.36	39°49'28.8147"N	80°39'49.5978"W	2916.01	121.344	5.07	0.09	-5.07
9901.00	88.400	154.050	6898.42	2827.83	-1603.19	2527.38	1734853.57	14462981.03	39°49'27.9597"N	80°39'49.1287"W	2992.97	122.388	5.97	-0.22	-5.97
9996.00	88.670	154.200	6900.85	2920.50	-1688.64	2568.82	1734895.00	14462895.61	39°49'27.1137"N	80°39'48.6017"W	3074.14	123.319	0.33	0.28	0.16
10091.00	88.210	151.960	6903.44	3013.53	-1773.31	2611.81	1734937.98	14462810.98	39°49'26.2754"N	80°39'48.0547"W	3156.93	124.175	2.41	-0.48	-2.36
10186.00	88.300	150.170	6906.33	3107.17	-1856.41	2657.75	1734983.90	14462727.91	39°49'25.4525"N	80°39'47.4700"W	3241.90	124.934	1.89	0.09	-1.88
10281.00	88.330	146.590	6909.12	3201.43	-1937.26	2707.53	1735033.66	14462647.09	39°49'24.6516"N	80°39'46.8359"W	3329.22	125.584	3.77	0.03	-3.77
10376.00	88.490	141.970	6911.76	3296.26	-2014.33	2762.96	1735089.06	14462570.05	39°49'23.8878"N	80°39'46.1292"W	3419.28	126.094	4.86	0.17	-4.86
10471.00	87.660	138.660	6914.95	3391.17	-2087.39	2823.58	1735149.66	14462497.02	39°49'23.1636"N	80°39'45.3558"W	3511.38	126.474	3.59	-0.87	-3.48
10566.00	88.890	136.410	6917.81	3485.89	-2157.43	2887.68	1735213.74	14462427.00	39°49'22.4690"N	80°39'44.5376"W	3604.61	126.764	2.70	1.29	-2.37
10661.00	88.330	135.230	6920.12	3580.39	-2225.54	2953.87	1735279.90	14462358.92	39°49'21.7934"N	80°39'43.6926"W	3698.43	126.996	1.37	-0.59	-1.24
10756.00	88.020	134.690	6923.14	3674.72	-2292.64	3021.05	1735347.06	14462291.85	39°49'21.1279"N	80°39'42.8348"W	3792.49	127.194	0.66	-0.33	-0.57
10851.00	88.330	137.020	6926.17	3769.21	-2360.77	3087.18	1735413.16	14462223.75	39°49'20.4521"N	80°39'41.9906"W	3886.37	127.405	2.47	0.33	2.45
10947.00	88.360	142.090	6928.94	3865.08	-2433.77	3149.41	1735475.37	14462150.77	39°49'19.7283"N	80°39'41.1965"W	3980.21	127.696	5.28	0.03	5.28
11042.00	88.610	142.440	6931.45	3960.04	-2508.88	3207.53	1735533.46	14462075.70	39°49'18.9839"N	80°39'40.4553"W	4072.19	128.032	0.45	0.26	0.37
11137.00	88.330	141.820	6933.99	4055.00	-2583.84	3265.83	1735591.74	14462000.76	39°49'18.2409"N	80°39'39.7118"W	4164.36	128.350	0.72	-0.29	-0.65
11232.00	88.760	143.190	6936.40	4149.95	-2659.19	3323.63	1735649.52	14461925.44	39°49'17.4941"N	80°39'38.9746"W	4256.50	128.663	1.51	0.45	1.44
11326.00	88.580	142.240	6938.59	4243.90	-2733.96	3380.56	1735706.43	14461850.71	39°49'16.7530"N	80°39'38.2486"W	4347.73	128.963	1.03	-0.19	-1.01
11422.00	88.300	143.080	6941.20	4339.85	-2810.25	3438.77	1735764.61	14461774.44	39°49'15.9969"N	80°39'37.5064"W	4441.02	129.257	0.92	-0.29	0.88



# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

WELLPATH DATA (228 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]
11516.00	88.390	146.730	6943.91	4433.63	-2887.12	3492.78	1735818.60	14461697.60	39°49'15.2352"N	80°39'36.8179"W	4531.55	129.577	3.88	0.10	3.88
11611.00	88.450	148.680	6946.53	4528.03	-2967.39	3543.51	1735869.31	14461617.37	39°49'14.4400"N	80°39'36.1716"W	4621.89	129.943	2.05	0.06	2.05
11706.00	88.330	146.840	6949.20	4622.42	-3047.71	3594.17	1735919.95	14461537.08	39°49'13.6444"N	80°39'35.5262"W	4712.39	130.297	1.94	-0.13	-1.94
11801.00	88.420	148.760	6951.90	4716.81	-3128.06	3644.77	1735970.53	14461456.76	39°49'12.8484"N	80°39'34.8817"W	4803.03	130.637	2.02	0.09	2.02
11896.00	88.480	148.840	6954.47	4811.01	-3209.29	3693.97	1736019.71	14461375.56	39°49'12.0438"N	80°39'34.2552"W	4893.36	130.984	0.11	0.06	0.08
11990.00	88.210	148.100	6957.18	4904.28	-3289.38	3743.10	1736068.82	14461295.50	39°49'11.2505"N	80°39'33.6293"W	4983.05	131.308	0.84	-0.29	-0.79
12085.00	88.700	148.700	6959.74	4998.55	-3370.26	3792.86	1736118.56	14461214.65	39°49'10.4492"N	80°39'32.9956"W	5073.90	131.624	0.82	0.52	0.63
12180.00	88.270	149.510	6962.26	5092.69	-3451.75	3841.62	1736167.31	14461133.19	39°49'9.6421"N	80°39'32.3746"W	5164.56	131.940	0.97	-0.45	0.85
12275.00	88.700	150.820	6964.77	5186.57	-3534.13	3888.87	1736214.53	14461050.85	39°49'8.8262"N	80°39'31.7732"W	5254.84	132.264	1.45	0.45	1.38
12369.00	88.520	150.760	6967.05	5279.31	-3616.15	3934.73	1736260.38	14460968.86	39°49'8.0139"N	80°39'31.1894"W	5344.03	132.584	0.20	-0.19	-0.06
12464.00	88.450	149.740	6969.56	5373.18	-3698.60	3981.85	1736307.48	14460886.44	39°49'7.1973"N	80°39'30.5896"W	5434.59	132.888	1.08	-0.07	-1.07
12559.00	88.850	148.910	6971.80	5467.27	-3780.29	4030.30	1736355.91	14460804.79	39°49'6.3882"N	80°39'29.9726"W	5525.75	133.167	0.97	0.42	-0.87
12654.00	89.470	149.760	6973.19	5561.37	-3861.99	4078.75	1736404.34	14460723.11	39°49'5.5789"N	80°39'29.3557"W	5617.04	133.436	1.11	0.65	0.89
12749.00	88.980	146.270	6974.48	5655.73	-3942.55	4129.06	1736454.63	14460642.59	39°49'4.7809"N	80°39'28.7150"W	5709.01	133.676	3.71	-0.52	-3.67
12844.00	88.760	148.550	6976.35	5750.21	-4022.57	4180.21	1736505.76	14460562.60	39°49'3.9882"N	80°39'28.0633"W	5801.32	133.899	2.41	-0.23	2.40
12939.00	88.760	150.610	6978.41	5844.24	-4104.47	4228.30	1736553.83	14460480.73	39°49'3.1770"N	80°39'27.4510"W	5892.81	134.149	2.17	0.00	2.17
13034.00	88.550	150.950	6980.64	5937.97	-4187.36	4274.67	1736600.18	14460397.88	39°49'2.3561"N	80°39'26.8609"W	5983.87	134.409	0.42	-0.22	0.36
13129.00	88.240	149.060	6983.30	6031.89	-4269.60	4322.14	1736647.63	14460315.67	39°49'1.5415"N	80°39'26.2566"W	6075.39	134.650	2.02	-0.33	-1.99
13224.00	88.310	149.010	6986.16	6126.03	-4351.02	4370.99	1736696.47	14460234.28	39°49'0.7350"N	80°39'25.6345"W	6167.41	134.869	0.09	0.07	-0.05
13319.00	88.830	149.400	6988.53	6220.14	-4432.60	4419.62	1736745.07	14460152.73	39°48'59.9270"N	80°39'25.0154"W	6259.47	135.084	0.68	0.55	0.41
13413.00	88.710	149.390	6990.54	6313.23	-4513.49	4467.46	1736792.90	14460071.87	39°48'59.1258"N	80°39'24.4062"W	6350.57	135.294	0.13	-0.13	-0.01
13508.00	88.860	149.760	6992.56	6407.27	-4595.39	4515.56	1736840.98	14459990.01	39°48'58.3146"N	80°39'23.7938"W	6442.66	135.502	0.42	0.16	0.39
13603.00	88.920	149.490	6994.40	6501.30	-4677.33	4563.59	1736888.99	14459908.09	39°48'57.5029"N	80°39'23.1824"W	6534.81	135.705	0.29	0.06	-0.28
13698.00	89.080	149.330	6996.06	6595.39	-4759.10	4611.93	1736937.31	14459826.36	39°48'56.6930"N	80°39'22.5669"W	6627.13	135.900	0.24	0.17	-0.17
13793.00	88.950	149.670	6997.69	6689.45	-4840.94	4660.13	1736985.50	14459744.55	39°48'55.8824"N	80°39'21.9532"W	6719.49	136.090	0.38	-0.14	0.36
13889.00	89.020	149.390	6999.39	6784.50	-4923.67	4708.81	1737034.15	14459661.85	39°48'55.0630"N	80°39'21.3335"W	6812.88	136.278	0.30	0.07	-0.29
13984.00	89.200	150.110	7000.87	6878.50	-5005.72	4756.66	1737081.98	14459579.83	39°48'54.2502"N	80°39'20.7243"W	6905.29	136.461	0.78	0.19	0.76
14079.00	89.110	149.980	7002.27	6972.44	-5088.02	4804.09	1737129.39	14459497.56	39°48'53.4351"N	80°39'20.1206"W	6997.66	136.644	0.17	-0.09	-0.14
14174.00	88.890	146.820	7003.93	7066.73	-5168.91	4853.85	1737179.14	14459416.70	39°48'52.6338"N	80°39'19.4868"W	7090.67	136.800	3.33	-0.23	-3.33
14269.00	88.800	146.480	7005.84	7161.33	-5248.25	4906.07	1737231.34	14459337.39	39°48'51.8477"N	80°39'18.8216"W	7184.27	136.930	0.37	-0.09	-0.36



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# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## WELLPATH DATA (228 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]
14364.00	88.740	147.970	7007.88	7255.83	-5328.11	4957.48	1737282.73	14459257.57	39°48'51.0566"N	80°39'18.1667"W	7277.73	137.064	1.57	-0.06	1.57
14458.00	89.080	151.070	7009.67	7348.89	-5409.10	5005.15	1737330.38	14459176.62	39°48'50.2544"N	80°39'17.5598"W	7369.52	137.221	3.32	0.36	3.30
14553.00	89.450	150.490	7010.89	7442.64	-5492.00	5051.52	1737376.73	14459093.74	39°48'49.4334"N	80°39'16.9697"W	7461.90	137.392	0.72	0.39	-0.61
14648.00	89.510	151.150	7011.75	7536.38	-5574.94	5097.84	1737423.03	14459010.84	39°48'48.6119"N	80°39'16.3803"W	7554.33	137.560	0.70	0.06	0.69
14744.00	89.540	151.200	7012.55	7631.01	-5659.04	5144.12	1737469.29	14458926.77	39°48'47.7790"N	80°39'15.7913"W	7647.66	137.729	0.06	0.03	0.05
14839.00	89.110	147.900	7013.67	7725.06	-5740.92	5192.25	1737517.41	14458844.92	39°48'46.9680"N	80°39'15.1786"W	7740.65	137.873	3.50	-0.45	-3.47
14934.00	89.080	142.260	7015.17	7819.83	-5818.78	5246.61	1737571.74	14458767.10	39°48'46.1965"N	80°39'14.4859"W	7834.86	137.960	5.94	-0.03	-5.94
15029.00	88.860	149.360	7016.88	7914.48	-5897.29	5299.95	1737625.06	14458688.61	39°48'45.4185"N	80°39'13.8063"W	7928.91	138.054	7.48	-0.23	7.47
15124.00	88.860	151.220	7018.77	8008.35	-5979.79	5347.02	1737672.11	14458606.15	39°48'44.6015"N	80°39'13.2071"W	8021.75	138.197	1.96	0.00	1.96
15219.00	88.860	150.970	7020.66	8102.00	-6062.94	5392.93	1737718.00	14458523.03	39°48'43.7780"N	80°39'12.6230"W	8114.36	138.347	0.26	0.00	-0.26
15314.00	90.060	150.880	7021.55	8195.72	-6145.96	5439.09	1737764.15	14458440.04	39°48'42.9558"N	80°39'12.0355"W	8207.10	138.492	1.27	1.26	-0.09
15409.00	90.340	151.160	7021.22	8289.41	-6229.06	5485.12	1737810.16	14458356.97	39°48'42.1327"N	80°39'11.4498"W	8299.87	138.634	0.42	0.29	0.29
15504.00	89.200	150.460	7021.60	8383.16	-6312.00	5531.45	1737856.47	14458274.07	39°48'41.3114"N	80°39'10.8603"W	8392.75	138.771	1.41	-1.20	-0.74
15599.00	89.600	151.080	7022.60	8476.92	-6394.89	5577.84	1737902.84	14458191.20	39°48'40.4903"N	80°39'10.2700"W	8485.69	138.904	0.78	0.42	0.65
15694.00	90.490	149.410	7022.52	8570.81	-6477.37	5624.98	1737949.97	14458108.77	39°48'39.6735"N	80°39'9.6699"W	8578.85	139.029	1.99	0.94	-1.76
15789.00	90.860	150.960	7021.40	8664.71	-6559.78	5672.21	1737997.18	14458026.38	39°48'38.8572"N	80°39'9.0688"W	8672.07	139.150	1.68	0.39	1.63
15884.00	90.650	150.960	7020.15	8758.42	-6642.83	5718.32	1738043.27	14457943.36	39°48'38.0347"N	80°39'8.4821"W	8765.07	139.277	0.22	-0.22	0.00
15979.00	90.680	151.170	7019.05	8852.09	-6725.97	5764.28	1738089.21	14457860.26	39°48'37.2113"N	80°39'7.8973"W	8858.08	139.403	0.22	0.03	0.22
16074.00	90.060	150.780	7018.44	8945.79	-6809.03	5810.38	1738135.29	14457777.23	39°48'36.3887"N	80°39'7.3108"W	8951.17	139.525	0.77	-0.65	-0.41
16169.00	90.120	150.820	7018.29	9039.55	-6891.96	5856.72	1738181.61	14457694.33	39°48'35.5673"N	80°39'6.7210"W	9044.35	139.642	0.08	0.06	0.04
16264.00	90.060	149.320	7018.14	9133.49	-6974.29	5904.12	1738228.99	14457612.04	39°48'34.7519"N	80°39'6.1178"W	9137.80	139.750	1.58	-0.06	-1.58
16359.00	90.340	149.640	7017.81	9227.57	-7056.13	5952.36	1738277.22	14457530.23	39°48'33.9413"N	80°39'5.5037"W	9231.44	139.850	0.45	0.29	0.34
16454.00	89.780	149.380	7017.71	9321.64	-7137.99	6000.57	1738325.40	14457448.40	39°48'33.1304"N	80°39'4.8901"W	9325.11	139.948	0.65	-0.59	-0.27
16549.00	90.210	147.430	7017.71	9415.95	-7218.90	6050.34	1738375.15	14457367.52	39°48'32.3289"N	80°39'4.2564"W	9419.08	140.033	2.10	0.45	-2.05
16644.00	89.910	141.270	7017.61	9510.79	-7296.06	6105.68	1738430.47	14457290.39	39°48'31.5642"N	80°39'3.5511"W	9513.77	140.076	6.49	-0.32	-6.48
16739.00	89.010	137.990	7018.51	9605.72	-7368.43	6167.20	1738491.97	14457218.05	39°48'30.8467"N	80°39'2.7664"W	9608.75	140.071	3.58	-0.95	-3.45
16834.00	88.830	136.190	7020.30	9700.42	-7437.99	6231.87	1738556.61	14457148.52	39°48'30.1567"N	80°39'1.9412"W	9703.60	140.042	1.90	-0.19	-1.89
16929.00	88.310	133.140	7022.67	9794.70	-7504.74	6299.40	1738624.12	14457081.79	39°48'29.4944"N	80°39'1.0792"W	9798.15	139.990	3.26	-0.55	-3.21
17024.00	88.400	133.380	7025.40	9888.68	-7569.82	6368.56	1738693.25	14457016.74	39°48'28.8486"N	80°39'0.1963"W	9892.46	139.926	0.27	0.09	0.25
17119.00	89.260	132.680	7027.34	9982.62	-7634.63	6437.99	1738762.65	14456951.95	39°48'28.2054"N	80°38'59.3099"W	9986.76	139.860	1.17	0.91	-0.74

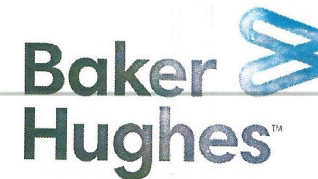


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# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## WELLPATH DATA (228 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]
17213.00	87.840	126.960	7029.72	10074.60	-7694.78	6510.13	1738834.76	14456891.82	39°48'27.6082"N	80°38'58.3885"W	10079.26	139.767	6.27	-1.51	-6.09
17309.00	89.100	123.290	7032.28	10166.65	-7749.99	6588.60	1738913.21	14456836.64	39°48'27.0596"N	80°38'57.3857"W	10172.12	139.631	4.04	1.31	-3.82
17404.00	89.160	123.720	7033.73	10256.99	-7802.42	6667.81	1738992.38	14456784.23	39°48'26.5383"N	80°38'56.3735"W	10263.41	139.483	0.46	0.06	0.45
17499.00	89.040	125.240	7035.22	10347.81	-7856.20	6746.11	1739070.65	14456730.48	39°48'26.0039"N	80°38'55.3729"W	10355.18	139.347	1.60	-0.13	1.60
17594.00	89.530	127.980	7036.40	10439.60	-7912.84	6822.35	1739146.87	14456673.85	39°48'25.4411"N	80°38'54.3988"W	10447.85	139.232	2.93	0.52	2.88
17689.00	89.530	130.980	7037.18	10532.50	-7973.23	6895.67	1739220.15	14456613.48	39°48'24.8414"N	80°38'53.4624"W	10541.47	139.145	3.16	0.00	3.16
17784.00	89.560	133.810	7037.94	10626.28	-8037.28	6965.82	1739290.27	14456549.47	39°48'24.2058"N	80°38'52.5668"W	10635.81	139.085	2.98	0.03	2.98
17878.00	90.020	134.990	7038.28	10719.56	-8103.04	7032.98	1739357.41	14456483.72	39°48'23.5532"N	80°38'51.7095"W	10729.50	139.044	1.35	0.49	1.26
17973.00	90.270	137.240	7038.04	10814.13	-8171.51	7098.83	1739423.23	14456415.29	39°48'22.8741"N	80°38'50.8692"W	10824.37	139.018	2.38	0.26	2.37
18068.00	90.080	141.470	7037.75	10909.04	-8243.57	7160.69	1739485.07	14456343.25	39°48'22.1595"N	80°38'50.0802"W	10919.34	139.021	4.46	-0.20	4.45
18163.00	89.930	143.200	7037.74	11004.03	-8318.77	7218.74	1739543.10	14456268.08	39°48'21.4140"N	80°38'49.3402"W	11014.18	139.050	1.83	-0.16	1.82
18258.00	89.900	143.350	7037.88	11098.98	-8394.92	7275.55	1739599.88	14456191.97	39°48'20.6593"N	80°38'48.6161"W	11108.93	139.086	0.16	-0.03	0.16
18352.00	90.140	142.220	7037.85	11192.96	-8469.77	7332.40	1739656.71	14456117.14	39°48'19.9173"N	80°38'47.8915"W	11202.73	139.117	1.23	0.26	-1.20
18447.00	89.900	141.000	7037.82	11287.96	-8544.23	7391.39	1739715.68	14456042.71	39°48'19.1792"N	80°38'47.1393"W	11297.64	139.138	1.31	-0.25	-1.28
18543.00	89.740	139.460	7038.12	11383.93	-8618.02	7452.80	1739777.07	14455968.95	39°48'18.4476"N	80°38'46.3562"W	11393.62	139.147	1.61	-0.17	-1.60
18638.00	89.250	139.270	7038.96	11478.86	-8690.11	7514.67	1739838.91	14455896.89	39°48'17.7327"N	80°38'45.5672"W	11488.61	139.149	0.55	-0.52	-0.20
18733.00	91.040	140.350	7038.72	11573.81	-8762.68	7575.97	1739900.19	14455824.35	39°48'17.0132"N	80°38'44.7854"W	11583.60	139.154	2.20	1.88	1.14
18828.00	89.650	139.860	7038.15	11668.78	-8835.56	7636.90	1739961.09	14455751.50	39°48'16.2906"N	80°38'44.0084"W	11678.58	139.162	1.55	-1.46	-0.52
18923.00	89.990	140.570	7038.44	11763.75	-8908.56	7697.69	1740021.86	14455678.52	39°48'15.5667"N	80°38'43.2332"W	11773.57	139.170	0.83	0.36	0.75
19017.00	90.270	140.490	7038.23	11857.74	-8981.12	7757.44	1740081.59	14455605.99	39°48'14.8473"N	80°38'42.4713"W	11867.54	139.181	0.31	0.30	-0.09
19113.00	89.740	139.490	7038.22	11953.70	-9054.65	7819.16	1740143.28	14455532.49	39°48'14.1182"N	80°38'41.6842"W	11963.53	139.188	1.18	-0.55	-1.04
19207.00	90.020	140.380	7038.42	12047.67	-9126.59	7879.66	1740203.76	14455460.58	39°48'13.4049"N	80°38'40.9126"W	12057.52	139.194	0.99	0.30	0.95
19302.00	89.870	139.710	7038.51	12142.63	-9199.41	7940.67	1740264.75	14455387.79	39°48'12.6828"N	80°38'40.1347"W	12152.51	139.200	0.72	-0.16	-0.71
19398.00	89.840	140.130	7038.75	12238.60	-9272.87	8002.48	1740326.53	14455314.36	39°48'11.9545"N	80°38'39.3464"W	12248.50	139.206	0.44	-0.03	0.44
19493.00	89.470	140.050	7039.33	12333.57	-9345.74	8063.43	1740387.46	14455241.52	39°48'11.2320"N	80°38'38.5692"W	12343.49	139.213	0.40	-0.39	-0.08
19588.00	89.500	140.270	7040.18	12428.54	-9418.68	8124.29	1740448.29	14455168.61	39°48'10.5087"N	80°38'37.7932"W	12438.47	139.220	0.23	0.03	0.23
19683.00	89.620	141.480	7040.91	12523.53	-9492.37	8184.23	1740508.21	14455094.94	39°48'9.7781"N	80°38'37.0289"W	12533.43	139.232	1.28	0.13	1.27
19778.00	89.620	144.680	7041.54	12618.48	-9568.31	8241.29	1740565.25	14455019.03	39°48'9.0254"N	80°38'36.3017"W	12628.20	139.261	3.37	0.00	3.37
19873.00	89.620	147.920	7042.17	12713.13	-9647.33	8293.99	1740617.93	14454940.04	39°48'8.2423"N	80°38'35.6305"W	12722.47	139.314	3.41	0.00	3.41
19968.00	89.560	150.790	7042.85	12807.23	-9729.06	8342.41	1740666.33	14454858.35	39°48'7.4328"N	80°38'35.0143"W	12816.02	139.388	3.02	-0.06	3.02





# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## WELLPATH DATA (228 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]
20063.00	89.620	152.940	7043.53	12900.67	-9812.82	8387.20	1740711.10	14454774.62	39°48'6.6032"N	80°38'34.4447"W	12908.78	139.479	2.26	0.06	2.26
20157.00	89.710	156.340	7044.08	12992.20	-9897.75	8427.46	1740751.34	14454689.72	39°48'5.7623"N	80°38'33.9333"W	12999.52	139.587	3.62	0.10	3.62
20253.00	89.650	159.070	7044.61	13084.38	-9986.56	8463.87	1740787.74	14454600.94	39°48'4.8832"N	80°38'33.4712"W	13090.78	139.718	2.84	-0.06	2.84
20348.00	89.930	162.690	7044.96	13173.99	-10076.31	8494.98	1740818.84	14454511.24	39°48'3.9950"N	80°38'33.0772"W	13179.41	139.867	3.82	0.29	3.81
20443.00	89.770	165.790	7045.21	13261.60	-10167.73	8520.78	1740844.63	14454419.85	39°48'3.0906"N	80°38'32.7513"W	13265.99	140.036	3.27	-0.17	3.26
20537.00	89.870	167.850	7045.51	13346.57	-10259.24	8542.22	1740866.05	14454328.37	39°48'2.1853"N	80°38'32.4814"W	13349.96	140.218	2.19	0.11	2.19
20633.00	89.470	166.000	7046.06	13433.27	-10352.75	8563.93	1740887.76	14454234.90	39°48'1.2604"N	80°38'32.2080"W	13435.79	140.402	1.97	-0.42	-1.93
20728.00	89.650	166.580	7046.79	13519.52	-10445.04	8586.45	1740910.27	14454142.65	39°48'0.3474"N	80°38'31.9242"W	13521.31	140.578	0.64	0.19	0.61
20823.00	89.590	164.490	7047.42	13606.29	-10537.02	8610.18	1740933.99	14454050.70	39°47'59.4375"N	80°38'31.6249"W	13607.50	140.747	2.20	-0.06	-2.20
20917.00	89.590	162.260	7048.09	13693.52	-10627.08	8637.07	1740960.87	14453960.68	39°47'58.5464"N	80°38'31.2850"W	13694.30	140.898	2.37	0.00	-2.37
21012.00	89.440	160.460	7048.90	13782.87	-10717.09	8667.43	1740991.22	14453870.70	39°47'57.6556"N	80°38'30.9006"W	13783.34	141.036	1.90	-0.16	-1.89
21107.00	89.130	156.700	7050.08	13873.66	-10805.51	8702.11	1741025.89	14453782.32	39°47'56.7805"N	80°38'30.4608"W	13873.93	141.154	3.97	-0.33	-3.96
21202.00	89.440	152.450	7051.27	13966.17	-10891.28	8742.89	1741066.65	14453696.58	39°47'55.9312"N	80°38'29.9428"W	13966.32	141.245	4.49	0.33	-4.47
21297.00	89.250	149.720	7052.36	14059.83	-10974.42	8788.81	1741112.56	14453613.47	39°47'55.1077"N	80°38'29.3586"W	14059.92	141.311	2.88	-0.20	-2.87
21391.00	89.160	149.600	7053.66	14152.87	-11055.54	8836.29	1741160.01	14453532.38	39°47'54.3042"N	80°38'28.7545"W	14152.92	141.366	0.16	-0.10	-0.13
21486.00	89.560	149.850	7054.72	14246.89	-11137.58	8884.18	1741207.89	14453450.38	39°47'53.4915"N	80°38'28.1451"W	14246.91	141.421	0.50	0.42	0.26
21581.00	89.650	150.100	7055.38	14340.85	-11219.83	8931.72	1741255.40	14453368.16	39°47'52.6768"N	80°38'27.5404"W	14340.86	141.478	0.28	0.09	0.26
21622.00†	89.650	150.100	7055.63	14381.39	-11255.37	8952.16	1741275.83	14453332.63	39°47'52.3248"N	80°38'27.2803"W	14381.39	141.502	0.00	0.00	0.00

## HOLE & CASING SECTIONS - Ref Wellbore: Hudson S-7HM AWB Ref Wellpath: Hudson S-7HM AWP Proj: 21622'

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	-0.05	0.50
17.5in Open Hole	148.00	1322.00	1174.00	148.00	1321.80	-0.05	0.50	2.90	-1.38
13.375in Casing Surface	28.00	1322.00	1294.00	28.00	1321.80	0.00	0.00	2.90	-1.38
12.25in Open Hole	1322.00	2474.00	1152.00	1321.80	2473.31	2.90	-1.38	26.27	16.39
9.625in Casing Intermediate	28.00	2474.00	2446.00	28.00	2473.31	0.00	0.00	26.27	16.39

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# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Hudson S-7HM LP Rev-1	6838.00	534.87	1474.14	1733800.75	14465118.25	39°49'49.1281"N	80°40'2.5259"W	point
Hudson S-7HM BHL Rev-1	7085.80	-11257.60	8951.08	1741274.76	14453330.41	39°47'52.3028"N	80°38'27.2942"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Hudson S-7HM AWB Ref Wellpath: Hudson S-7HM AWP Proj: 21622'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
28.00	1000.00	Gyrodata 2015 - CT+WIR+DPIPE	01 Gyrodata Cont. Gyro<17-1/2">(100'-1000')	Hudson S-7HM AWB	1/11/2024
1000.00	2500.00	OWSG MWD rev2 + HRGM	02 SDI MWD<12-1/4">(1000')(1100'-2500')	Hudson S-7HM AWB	1/11/2024
2500.00	6321.00	OWSG MWD rev2 + HRGM	03 SDI MWD<8-3/4">(2500')(2600'-6321')	Hudson S-7HM AWB	1/11/2024
6321.00	21622.00	OWSG MWD rev2 + IFR1 + Sag + Multi-Station Correction	04 BH Lucida +SQC IFR1+SAG+FDIR<8-1/2">(6321')(6388'-21581')	Hudson S-7HM AWB	1/11/2024

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# Actual Wellpath Report

Hudson S-7HM AWP Proj: 21622'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	EQT (TUG HILL OPERATING, LLC)	Well	Hudson S-7HM
Field	Marshall	API	47-051-02378-0000
Facility	Hudson	Wellbore	Hudson S-7HM AWB
Slot	Slot 07		

## COMMENTS

### Wellpath general comments

API: 47-051-02378-0000

BH Job #: 112078143

Rig: Patterson 294

Duration: 1/15/2024-1/20/2024

01\_Gyrodata Cont. Gyro<17-1/2">(100'-1000')

02\_SDI MWD<12-1/4">(1000')(1100'-2500')

03\_SDI MWD<8-3/4">(2500')(2600'-6321')

04\_BH Lucida +SQC IFR1+SAG+FDIR<8-1/2">(6321')(6388'-21581')

Landing Pt. @ 7530' MD

Final Survey @ 21581' MD

Projected MD at TD: 21622'

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