



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999610	Report Generated	12/26/2024 at 11:34:20 PM
Convergence at slot	0.22° 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	14.95	-49.90	1735433.74	14576690.93	40°08'12.0919"N	80°39'36.1315"W
Facility Reference Pt			1735483.62	14576675.99	40°08'11.9423"N	80°39'35.4898"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC41 (KB) to Facility Vertical Datum	1163.20ft
Horizontal Reference Pt	Slot	SDC41 (KB) to Mean Sea Level	1163.20ft
Vertical Reference Pt	SDC41 (KB)	SDC41 (KB) to Ground Level at Slot (6H)	26.00ft
MD Reference Pt	SDC41 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.01°

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WELLPATH DATA (265 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]
0.00†	0.000	52.460	0.00	0.00	0.00	0.00	1735433.74	14576690.93	40°08'12.0919"N	80°39'36.1315"W	0.00	0.000	0.00
26.00	0.000	52.460	26.00	0.00	0.00	0.00	1735433.74	14576690.93	40°08'12.0919"N	80°39'36.1315"W	0.00	0.000	0.00
179.00	0.200	52.460	179.00	-0.07	0.16	0.21	1735433.95	14576691.09	40°08'12.0935"N	80°39'36.1288"W	0.27	52.460	0.13
240.00	0.470	102.190	240.00	0.04	0.17	0.54	1735434.28	14576691.10	40°08'12.0936"N	80°39'36.1246"W	0.57	72.090	0.61
329.00	0.260	88.290	329.00	0.32	0.10	1.10	1735434.84	14576691.03	40°08'12.0929"N	80°39'36.1174"W	1.10	84.611	0.25
367.00	0.290	88.990	367.00	0.38	0.11	1.28	1735435.02	14576691.04	40°08'12.0929"N	80°39'36.1150"W	1.29	85.185	0.08
449.00	0.160	140.430	449.00	0.56	0.02	1.56	1735435.30	14576690.95	40°08'12.0921"N	80°39'36.1114"W	1.56	89.143	0.28
508.00	0.050	135.330	508.00	0.67	-0.06	1.63	1735435.37	14576690.87	40°08'12.0913"N	80°39'36.1105"W	1.63	92.050	0.19
600.00	0.540	287.310	599.99	0.43	0.04	1.25	1735434.99	14576690.97	40°08'12.0923"N	80°39'36.1155"W	1.25	88.071	0.64
690.00	1.820	292.510	689.97	-0.84	0.72	-0.48	1735433.26	14576691.65	40°08'12.0990"N	80°39'36.1376"W	0.86	326.235	1.43
781.00	3.560	288.890	780.87	-3.70	2.18	-4.49	1735429.26	14576693.11	40°08'12.1137"N	80°39'36.1892"W	4.99	295.950	1.92
872.00	5.670	287.420	871.57	-8.41	4.44	-11.45	1735422.29	14576695.37	40°08'12.1363"N	80°39'36.2787"W	12.28	291.213	2.32
962.00	7.810	282.150	960.94	-14.66	7.06	-21.67	1735412.08	14576697.99	40°08'12.1625"N	80°39'36.4102"W	22.79	288.051	2.47
1052.00	9.670	283.150	1049.89	-22.45	10.07	-35.01	1735398.74	14576701.00	40°08'12.1928"N	80°39'36.5818"W	36.43	286.046	2.07
1143.00	11.860	282.680	1139.29	-32.17	13.86	-51.58	1735382.18	14576704.79	40°08'12.2309"N	80°39'36.7949"W	53.41	285.042	2.41
1234.00	11.990	284.320	1228.32	-43.08	18.25	-69.86	1735363.91	14576709.17	40°08'12.2749"N	80°39'37.0301"W	72.20	284.642	0.40
1325.00	11.600	284.270	1317.40	-54.09	22.84	-87.89	1735345.89	14576713.77	40°08'12.3210"N	80°39'37.2619"W	90.81	284.571	0.43
1416.00	12.350	286.980	1406.42	-65.62	27.94	-106.06	1735327.72	14576718.86	40°08'12.3721"N	80°39'37.4957"W	109.68	284.760	1.03
1508.00	12.650	288.010	1496.24	-78.29	33.93	-125.05	1735308.74	14576724.85	40°08'12.4319"N	80°39'37.7399"W	129.57	285.181	0.41
1598.00	11.890	285.260	1584.19	-90.23	39.42	-143.37	1735290.43	14576730.33	40°08'12.4869"N	80°39'37.9755"W	148.69	285.373	1.07
1683.00	11.490	282.570	1667.42	-100.34	43.56	-160.08	1735273.72	14576734.48	40°08'12.5285"N	80°39'38.1904"W	165.90	285.224	0.80
1791.00	11.670	279.180	1773.23	-112.09	47.65	-181.36	1735252.45	14576738.56	40°08'12.5696"N	80°39'38.4642"W	187.51	284.721	0.65
1883.00	10.900	282.420	1863.45	-121.82	51.00	-199.04	1735234.78	14576741.91	40°08'12.6035"N	80°39'38.6917"W	205.47	284.373	1.08
1973.00	10.860	291.650	1951.84	-132.48	55.96	-215.23	1735218.59	14576746.87	40°08'12.6531"N	80°39'38.8999"W	222.39	284.575	1.93
2066.00	12.400	297.600	2042.93	-146.13	63.82	-232.23	1735201.61	14576754.73	40°08'12.7314"N	80°39'39.1184"W	240.84	285.367	2.10
2156.00	13.250	297.450	2130.68	-161.33	73.05	-249.94	1735183.90	14576763.95	40°08'12.8233"N	80°39'39.3460"W	260.40	286.292	0.95
2247.00	13.640	295.560	2219.19	-177.17	82.49	-268.88	1735164.97	14576773.39	40°08'12.9172"N	80°39'39.5893"W	281.25	287.056	0.65
2337.00	13.690	294.370	2306.64	-192.71	91.46	-288.15	1735145.70	14576782.36	40°08'13.0066"N	80°39'39.8371"W	302.32	287.610	0.32
2428.00	12.850	292.500	2395.21	-207.59	99.78	-307.31	1735126.55	14576790.67	40°08'13.0895"N	80°39'40.0833"W	323.10	287.988	1.04
2518.00	12.600	291.860	2483.00	-221.40	107.26	-325.67	1735108.20	14576798.15	40°08'13.1642"N	80°39'40.3193"W	342.88	288.230	0.32

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Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
2608.00	11.710	288.250	2570.98	-234.11	113.78	-343.45	1735090.42	14576804.66	40°08'13.2293"N	80°39'40.5480"W	361.81	288.329	1.30
2700.00	11.390	286.800	2661.12	-245.83	119.33	-361.01	1735072.87	14576810.21	40°08'13.2848"N	80°39'40.7738"W	380.22	288.291	0.47
2791.00	11.580	285.200	2750.30	-256.98	124.32	-378.43	1735055.46	14576815.20	40°08'13.3347"N	80°39'40.9978"W	398.33	288.186	0.41
2884.00	11.610	283.200	2841.40	-268.01	128.90	-396.55	1735037.35	14576819.78	40°08'13.3807"N	80°39'41.2309"W	416.97	288.008	0.43
2974.00	10.940	286.230	2929.66	-278.52	133.36	-413.57	1735020.34	14576824.22	40°08'13.4254"N	80°39'41.4498"W	434.54	287.873	0.99
3065.00	11.510	290.130	3018.92	-289.95	138.90	-430.38	1735003.53	14576829.77	40°08'13.4807"N	80°39'41.6660"W	452.24	287.887	1.04
3155.00	11.620	289.990	3107.10	-302.03	145.09	-447.33	1734986.58	14576835.96	40°08'13.5425"N	80°39'41.8839"W	470.27	287.970	0.13
3246.00	11.470	287.880	3196.26	-313.96	151.00	-464.55	1734969.37	14576841.87	40°08'13.6016"N	80°39'42.1054"W	488.48	288.006	0.49
3336.00	12.050	288.420	3284.37	-325.79	156.71	-481.98	1734951.95	14576847.58	40°08'13.6587"N	80°39'42.3295"W	506.82	288.012	0.66
3427.00	12.070	287.500	3373.36	-338.00	162.58	-500.07	1734933.87	14576853.44	40°08'13.7174"N	80°39'42.5621"W	525.83	288.010	0.21
3517.00	11.720	286.010	3461.43	-349.61	167.93	-517.83	1734916.11	14576858.79	40°08'13.7709"N	80°39'42.7905"W	544.38	287.967	0.52
3608.00	11.890	288.570	3550.50	-361.39	173.46	-535.60	1734898.35	14576864.32	40°08'13.8263"N	80°39'43.0190"W	562.99	287.945	0.61
3701.00	11.730	289.450	3641.53	-373.88	179.66	-553.60	1734880.36	14576870.52	40°08'13.8882"N	80°39'43.2504"W	582.02	287.980	0.26
3791.00	12.340	291.110	3729.55	-386.51	186.17	-571.19	1734862.77	14576877.03	40°08'13.9532"N	80°39'43.4767"W	600.77	288.052	0.78
3882.00	12.390	290.800	3818.44	-399.78	193.14	-589.39	1734844.58	14576883.99	40°08'14.0227"N	80°39'43.7107"W	620.23	288.144	0.09
3973.00	12.030	287.790	3907.39	-412.48	199.50	-607.55	1734826.43	14576890.36	40°08'14.0863"N	80°39'43.9441"W	639.47	288.179	0.80
4064.00	12.620	288.670	3996.29	-425.03	205.58	-626.00	1734807.99	14576896.43	40°08'14.1471"N	80°39'44.1813"W	658.89	288.181	0.68
4155.00	12.940	288.230	4085.03	-438.08	211.95	-645.09	1734788.90	14576902.80	40°08'14.2107"N	80°39'44.4269"W	679.02	288.189	0.37
4247.00	12.760	285.490	4174.73	-450.92	217.89	-664.67	1734769.33	14576908.73	40°08'14.2701"N	80°39'44.6786"W	699.47	288.150	0.69
4337.00	12.450	283.780	4262.56	-462.64	222.85	-683.67	1734750.34	14576913.70	40°08'14.3199"N	80°39'44.9230"W	719.07	288.054	0.54
4428.00	12.480	287.600	4351.42	-474.64	228.16	-702.57	1734731.45	14576919.00	40°08'14.3731"N	80°39'45.1661"W	738.69	287.992	0.91
4521.00	12.110	287.040	4442.28	-487.18	234.06	-721.47	1734712.55	14576924.90	40°08'14.4321"N	80°39'45.4092"W	758.49	287.974	0.42
4612.00	11.930	285.040	4531.29	-498.86	239.30	-739.68	1734694.35	14576930.13	40°08'14.4845"N	80°39'45.6434"W	777.43	287.927	0.50
4703.00	12.710	287.470	4620.19	-510.89	244.74	-758.32	1734675.72	14576935.58	40°08'14.5390"N	80°39'45.8831"W	796.83	287.887	1.03
4793.00	12.950	286.900	4707.95	-523.51	250.65	-777.41	1734656.64	14576941.48	40°08'14.5981"N	80°39'46.1286"W	816.82	287.870	0.30
4884.00	12.780	284.300	4796.66	-535.87	256.10	-796.92	1734637.13	14576946.93	40°08'14.6527"N	80°39'46.3795"W	837.06	287.815	0.66
4974.00	12.520	286.570	4884.48	-547.84	261.34	-815.91	1734618.15	14576952.17	40°08'14.7052"N	80°39'46.6239"W	856.75	287.760	0.62
5065.00	11.900	284.930	4973.42	-559.63	266.57	-834.43	1734599.63	14576957.40	40°08'14.7576"N	80°39'46.8621"W	875.98	287.717	0.78
5165.00	11.530	284.070	5071.34	-571.70	271.66	-854.09	1734579.98	14576962.48	40°08'14.8086"N	80°39'47.1149"W	896.25	287.644	0.41
5256.00	11.320	282.280	5160.53	-582.08	275.77	-871.64	1734562.44	14576966.59	40°08'14.8498"N	80°39'47.3406"W	914.22	287.556	0.45



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5347.00	9.730	241.770	5250.12	-586.28	274.03	-887.16	1734546.93	14576964.85	40°08'14.8332"N	80°39'47.5406"W	928.52	287.165	8.14
5437.00	12.400	201.220	5338.57	-578.40	261.40	-897.38	1734536.71	14576952.23	40°08'14.7088"N	80°39'47.6727"W	934.67	286.241	8.92
5528.00	18.650	184.380	5426.25	-558.21	237.75	-902.03	1734532.06	14576928.59	40°08'14.4753"N	80°39'47.7338"W	932.84	284.766	8.40
5618.00	26.400	175.160	5509.34	-526.14	203.40	-901.44	1734532.65	14576894.25	40°08'14.1358"N	80°39'47.7279"W	924.10	282.715	9.44
5709.00	33.810	171.270	5588.02	-482.10	158.15	-895.88	1734538.21	14576849.02	40°08'13.6885"N	80°39'47.6585"W	909.74	280.011	8.42
5798.00	41.560	168.500	5658.41	-428.89	104.66	-886.22	1734547.86	14576795.55	40°08'13.1595"N	80°39'47.5368"W	892.38	276.735	8.91
5889.00	49.750	165.600	5721.96	-364.67	41.33	-871.54	1734562.54	14576732.24	40°08'12.5332"N	80°39'47.3508"W	872.52	272.715	9.28
5981.00	57.790	162.670	5776.30	-290.94	-29.96	-851.18	1734582.89	14576660.99	40°08'11.8279"N	80°39'47.0922"W	851.71	267.984	9.11
6071.00	65.550	162.830	5818.98	-212.06	-105.56	-827.71	1734606.35	14576585.42	40°08'11.0800"N	80°39'46.7937"W	834.42	262.732	8.62
6171.00	74.230	160.380	5853.33	-118.43	-194.55	-798.06	1734636.00	14576496.46	40°08'10.1994"N	80°39'46.4162"W	821.43	256.300	8.98
6266.00	82.280	158.130	5872.66	-25.53	-281.44	-765.12	1734668.92	14576409.60	40°08'9.3395"N	80°39'45.9963"W	815.24	249.804	8.78
6362.00	88.980	158.310	5879.97	70.14	-370.28	-729.62	1734704.41	14576320.79	40°08'8.4603"N	80°39'45.5437"W	818.20	243.092	6.98
6457.00	89.080	157.790	5881.58	165.13	-458.38	-694.12	1734739.90	14576232.73	40°08'7.5883"N	80°39'45.0908"W	831.81	236.560	0.56
6552.00	89.080	158.150	5883.10	260.11	-546.43	-658.49	1734775.51	14576144.71	40°08'6.7169"N	80°39'44.6364"W	855.68	230.313	0.38
6648.00	89.020	158.060	5884.69	356.10	-635.50	-622.69	1734811.29	14576055.68	40°08'5.8354"N	80°39'44.1799"W	889.72	224.417	0.11
6743.00	88.980	157.830	5886.35	451.09	-723.53	-587.03	1734846.94	14575967.68	40°08'4.9641"N	80°39'43.7250"W	931.72	219.054	0.25
6838.00	89.450	158.710	5887.65	546.08	-811.77	-551.86	1734882.10	14575879.48	40°08'4.0908"N	80°39'43.2766"W	981.59	214.209	1.05
6933.00	89.510	157.780	5888.52	641.07	-900.00	-516.65	1734917.29	14575791.28	40°08'3.2176"N	80°39'42.8276"W	1037.75	209.858	0.98
7029.00	90.490	158.310	5888.52	737.07	-989.04	-480.76	1734953.17	14575702.28	40°08'2.3364"N	80°39'42.3698"W	1099.69	205.924	1.16
7125.00	89.450	158.030	5888.57	833.07	-1078.15	-445.06	1734988.86	14575613.20	40°08'1.4544"N	80°39'41.9146"W	1166.40	202.431	1.12
7220.00	88.740	157.730	5890.07	928.05	-1166.15	-409.29	1735024.61	14575525.24	40°08'0.5835"N	80°39'41.4584"W	1235.89	199.340	0.81
7315.00	88.460	157.750	5892.39	1023.02	-1254.04	-373.32	1735060.57	14575437.38	40°07'59.7135"N	80°39'40.9996"W	1308.43	196.578	0.30
7411.00	88.400	157.700	5895.02	1118.99	-1342.84	-336.94	1735096.93	14575348.61	40°07'58.8346"N	80°39'40.5356"W	1384.47	194.086	0.08
7506.00	89.420	157.620	5896.82	1213.97	-1430.70	-300.84	1735133.02	14575260.79	40°07'57.9651"N	80°39'40.0751"W	1461.98	191.875	1.08
7601.00	89.510	157.700	5897.71	1308.96	-1518.56	-264.73	1735169.11	14575172.96	40°07'57.0954"N	80°39'39.6145"W	1541.47	189.889	0.13
7697.00	89.600	157.890	5898.46	1404.96	-1607.44	-228.45	1735205.38	14575084.12	40°07'56.2158"N	80°39'39.1518"W	1623.59	188.089	0.22
7792.00	90.090	158.170	5898.71	1499.96	-1695.54	-192.91	1735240.91	14574996.05	40°07'55.3438"N	80°39'38.6986"W	1706.48	186.491	0.59
7888.00	89.820	157.300	5898.79	1595.95	-1784.38	-156.54	1735277.27	14574907.25	40°07'54.4645"N	80°39'38.2347"W	1791.24	185.013	0.95
7983.00	89.940	157.320	5898.99	1690.95	-1872.03	-119.89	1735313.90	14574819.63	40°07'53.5970"N	80°39'37.7672"W	1875.87	183.664	0.13
8079.00	89.720	157.690	5899.27	1786.94	-1960.73	-83.16	1735350.61	14574730.97	40°07'52.7191"N	80°39'37.2987"W	1962.49	182.429	0.45



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
8174.00	89.600	157.110	5899.84	1881.93	-2048.43	-46.65	1735387.11	14574643.30	40°07'51.8511"N	80°39'36.8330"W	2048.96	181.305	0.62
8270.00	89.630	157.230	5900.48	1977.92	-2136.91	-9.41	1735424.34	14574554.86	40°07'50.9753"N	80°39'36.3578"W	2136.93	180.252	0.13
8366.00	89.820	157.310	5900.94	2073.91	-2225.45	27.69	1735461.42	14574466.35	40°07'50.0989"N	80°39'35.8847"W	2225.62	179.287	0.21
8461.00	89.510	157.310	5901.50	2168.90	-2313.09	64.33	1735498.05	14574378.74	40°07'49.2314"N	80°39'35.4172"W	2313.99	178.407	0.33
8556.00	89.630	157.510	5902.21	2263.90	-2400.80	100.82	1735534.52	14574291.07	40°07'48.3633"N	80°39'34.9517"W	2402.92	177.595	0.25
8651.00	89.660	157.470	5902.80	2358.89	-2488.56	137.19	1735570.88	14574203.34	40°07'47.4947"N	80°39'34.4878"W	2492.34	176.845	0.05
8746.00	89.630	157.420	5903.39	2453.88	-2576.30	173.63	1735607.30	14574115.64	40°07'46.6263"N	80°39'34.0231"W	2582.14	176.144	0.06
8842.00	89.630	157.370	5904.01	2549.88	-2664.92	210.53	1735644.19	14574027.05	40°07'45.7492"N	80°39'33.5524"W	2673.22	175.483	0.05
8937.00	89.420	157.350	5904.80	2644.87	-2752.60	247.10	1735680.74	14573939.41	40°07'44.8814"N	80°39'33.0859"W	2763.66	174.870	0.22
9032.00	89.380	157.360	5905.79	2739.86	-2840.27	283.67	1735717.30	14573851.78	40°07'44.0136"N	80°39'32.6194"W	2854.40	174.296	0.04
9128.00	89.420	157.690	5906.80	2835.85	-2928.97	320.37	1735753.99	14573763.11	40°07'43.1356"N	80°39'32.1514"W	2946.44	173.758	0.35
9223.00	89.230	157.580	5907.92	2930.84	-3016.82	356.52	1735790.12	14573675.29	40°07'42.2662"N	80°39'31.6904"W	3037.81	173.260	0.23
9318.00	89.230	157.650	5909.19	3025.83	-3104.65	392.69	1735826.28	14573587.49	40°07'41.3968"N	80°39'31.2290"W	3129.39	172.791	0.07
9414.00	89.140	158.730	5910.56	3121.82	-3193.77	428.35	1735861.93	14573498.41	40°07'40.5148"N	80°39'30.7743"W	3222.37	172.361	1.13
9510.00	89.350	158.340	5911.82	3217.80	-3283.10	463.48	1735897.04	14573409.11	40°07'39.6307"N	80°39'30.3265"W	3315.66	171.965	0.46
9605.00	89.230	158.560	5913.00	3312.79	-3371.46	498.37	1735931.92	14573320.79	40°07'38.7562"N	80°39'29.8817"W	3408.09	171.591	0.26
9700.00	89.320	158.340	5914.20	3407.78	-3459.81	533.26	1735966.80	14573232.48	40°07'37.8818"N	80°39'29.4369"W	3500.66	171.238	0.25
9795.00	89.350	158.350	5915.30	3502.77	-3548.10	568.32	1736001.84	14573144.22	40°07'37.0080"N	80°39'28.9900"W	3593.32	170.900	0.03
9891.00	90.030	158.080	5915.82	3598.77	-3637.24	603.95	1736037.45	14573055.12	40°07'36.1257"N	80°39'28.5358"W	3687.04	170.572	0.76
9986.00	89.420	158.330	5916.28	3693.77	-3725.45	639.22	1736072.71	14572966.94	40°07'35.2527"N	80°39'28.0861"W	3779.89	170.264	0.69
10081.00	89.510	158.240	5917.17	3788.76	-3813.70	674.37	1736107.84	14572878.72	40°07'34.3793"N	80°39'27.6380"W	3872.87	169.972	0.13
10177.00	89.450	158.070	5918.04	3884.76	-3902.80	710.09	1736143.55	14572789.65	40°07'33.4974"N	80°39'27.1826"W	3966.88	169.688	0.19
10272.00	89.380	158.390	5919.01	3979.75	-3991.02	745.32	1736178.77	14572701.47	40°07'32.6243"N	80°39'26.7334"W	4060.02	169.422	0.34
10368.00	89.510	158.170	5919.94	4075.75	-4080.20	780.84	1736214.28	14572612.32	40°07'31.7416"N	80°39'26.2805"W	4154.25	169.166	0.27
10463.00	88.890	157.940	5921.26	4170.74	-4168.31	816.34	1736249.76	14572524.25	40°07'30.8696"N	80°39'25.8279"W	4247.50	168.919	0.70
10559.00	89.290	158.130	5922.79	4266.73	-4257.33	852.24	1736285.65	14572435.27	40°07'29.9885"N	80°39'25.3701"W	4341.80	168.680	0.46
10654.00	89.510	158.550	5923.78	4361.72	-4345.62	887.31	1736320.70	14572347.01	40°07'29.1147"N	80°39'24.9232"W	4435.28	168.460	0.50
10749.00	89.570	158.170	5924.55	4456.71	-4433.92	922.34	1736355.72	14572258.75	40°07'28.2408"N	80°39'24.4766"W	4528.84	168.249	0.40
10845.00	89.630	158.930	5925.22	4552.71	-4523.27	957.44	1736390.81	14572169.43	40°07'27.3565"N	80°39'24.0291"W	4623.49	168.049	0.79
10941.00	89.450	158.410	5925.99	4648.70	-4612.69	992.36	1736425.71	14572080.05	40°07'26.4715"N	80°39'23.5841"W	4718.23	167.859	0.57



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
11036.00	89.690	158.510	5926.70	4743.69	-4701.05	1027.24	1736460.58	14571991.72	40°07'25.5970"N	80°39'23.1395"W	4811.98	167.674	0.27
11132.00	89.540	158.380	5927.35	4839.69	-4790.34	1062.51	1736495.83	14571902.47	40°07'24.7133"N	80°39'22.6899"W	4906.76	167.494	0.21
11227.00	89.660	158.210	5928.01	4934.68	-4878.60	1097.64	1736530.95	14571814.24	40°07'23.8398"N	80°39'22.2420"W	5000.55	167.320	0.22
11322.00	89.480	158.340	5928.72	5029.68	-4966.85	1132.81	1736566.10	14571726.03	40°07'22.9663"N	80°39'21.7938"W	5094.39	167.152	0.23
11417.00	89.570	158.300	5929.51	5124.67	-5055.12	1167.90	1736601.18	14571637.79	40°07'22.0927"N	80°39'21.3464"W	5188.28	166.991	0.10
11513.00	89.600	158.400	5930.20	5220.67	-5144.35	1203.32	1736636.59	14571548.59	40°07'21.2096"N	80°39'20.8950"W	5283.21	166.835	0.11
11609.00	89.600	158.370	5930.87	5316.67	-5233.60	1238.68	1736671.93	14571459.38	40°07'20.3263"N	80°39'20.4442"W	5378.18	166.684	0.03
11704.00	89.690	158.480	5931.46	5411.66	-5321.94	1273.61	1736706.85	14571371.07	40°07'19.4519"N	80°39'19.9990"W	5472.21	166.541	0.15
11799.00	89.940	158.320	5931.77	5506.66	-5410.27	1308.58	1736741.81	14571282.78	40°07'18.5777"N	80°39'19.5532"W	5566.27	166.403	0.31
11895.00	89.660	158.360	5932.11	5602.66	-5499.49	1344.02	1736777.23	14571193.60	40°07'17.6947"N	80°39'19.1015"W	5661.34	166.267	0.29
11990.00	89.420	158.400	5932.87	5697.65	-5587.80	1379.02	1736812.22	14571105.32	40°07'16.8206"N	80°39'18.6554"W	5755.45	166.137	0.26
12086.00	89.420	158.220	5933.84	5793.65	-5677.00	1414.50	1736847.68	14571016.15	40°07'15.9378"N	80°39'18.2032"W	5850.57	166.009	0.19
12181.00	89.420	158.330	5934.80	5888.64	-5765.25	1449.66	1736882.83	14570927.94	40°07'15.0644"N	80°39'17.7549"W	5944.71	165.886	0.12
12276.00	89.260	157.940	5935.90	5983.63	-5853.41	1485.04	1736918.19	14570839.81	40°07'14.1918"N	80°39'17.3040"W	6038.85	165.764	0.44
12372.00	89.380	158.400	5937.04	6079.62	-5942.52	1520.73	1736953.88	14570750.74	40°07'13.3099"N	80°39'16.8489"W	6134.02	165.646	0.50
12468.00	89.350	158.510	5938.10	6175.62	-6031.80	1555.98	1736989.11	14570661.49	40°07'12.4262"N	80°39'16.3996"W	6229.27	165.535	0.12
12563.00	89.170	158.320	5939.33	6270.61	-6120.14	1590.93	1737024.05	14570573.19	40°07'11.5520"N	80°39'15.9542"W	6323.54	165.428	0.28
12660.00	89.480	158.120	5940.47	6367.60	-6210.20	1626.92	1737060.02	14570483.16	40°07'10.6605"N	80°39'15.4955"W	6419.77	165.320	0.38
12755.00	89.350	158.520	5941.44	6462.59	-6298.48	1662.01	1737095.10	14570394.92	40°07'9.7868"N	80°39'15.0482"W	6514.07	165.218	0.44
12851.00	89.420	158.440	5942.47	6558.58	-6387.78	1697.22	1737130.30	14570305.65	40°07'8.9030"N	80°39'14.5994"W	6609.41	165.120	0.11
12947.00	89.350	158.490	5943.50	6654.57	-6477.08	1732.46	1737165.52	14570216.39	40°07'8.0192"N	80°39'14.1503"W	6704.77	165.025	0.09
13042.00	89.200	158.480	5944.70	6749.56	-6565.45	1767.30	1737200.35	14570128.05	40°07'7.1446"N	80°39'13.7063"W	6799.15	164.934	0.16
13138.00	89.200	158.330	5946.04	6845.55	-6654.70	1802.63	1737235.66	14570038.83	40°07'6.2612"N	80°39'13.2560"W	6894.53	164.843	0.16
13233.00	89.080	158.320	5947.47	6940.54	-6742.97	1837.71	1737270.73	14569950.60	40°07'5.3875"N	80°39'12.8089"W	6988.91	164.755	0.13
13329.00	89.350	159.400	5948.78	7036.52	-6832.50	1872.33	1737305.34	14569861.10	40°07'4.5015"N	80°39'12.3678"W	7084.40	164.675	1.16
13425.00	89.910	157.150	5949.40	7132.51	-6921.68	1907.86	1737340.85	14569771.96	40°07'3.6189"N	80°39'11.9149"W	7179.80	164.590	2.42
13520.00	89.050	158.400	5950.27	7227.50	-7009.61	1943.79	1737376.77	14569684.06	40°07'2.7485"N	80°39'11.4568"W	7274.13	164.501	1.60
13616.00	88.710	159.050	5952.14	7323.48	-7099.05	1978.62	1737411.58	14569594.66	40°07'1.8633"N	80°39'11.0130"W	7369.63	164.426	0.76
13711.00	90.120	158.270	5953.11	7418.46	-7187.53	2013.19	1737446.14	14569506.21	40°07'0.9877"N	80°39'10.5725"W	7464.15	164.353	1.70
13807.00	90.280	158.150	5952.78	7514.46	-7276.67	2048.82	1737481.76	14569417.11	40°07'0.1054"N	80°39'10.1183"W	7559.61	164.275	0.21



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
13903.00	90.430	157.990	5952.18	7610.46	-7365.72	2084.67	1737517.60	14569328.09	40°06'59.2240"N	80°39'9.6613"W	7655.05	164.197	0.23
13998.00	89.850	158.170	5951.95	7705.46	-7453.86	2120.14	1737553.05	14569239.99	40°06'58.3517"N	80°39'9.2093"W	7749.51	164.122	0.64
14094.00	89.540	158.130	5952.46	7801.46	-7542.96	2155.87	1737588.76	14569150.93	40°06'57.4698"N	80°39'8.7539"W	7845.00	164.049	0.33
14189.00	89.570	158.260	5953.20	7896.45	-7631.16	2191.15	1737624.04	14569062.76	40°06'56.5969"N	80°39'8.3041"W	7939.50	163.980	0.14
14284.00	89.420	158.450	5954.04	7991.45	-7719.46	2226.19	1737659.06	14568974.50	40°06'55.7229"N	80°39'7.8576"W	8034.05	163.913	0.25
14379.00	89.420	158.020	5955.00	8086.44	-7807.68	2261.42	1737694.27	14568886.31	40°06'54.8497"N	80°39'7.4086"W	8128.58	163.847	0.45
14475.00	89.630	158.200	5955.79	8182.44	-7896.75	2297.21	1737730.05	14568797.27	40°06'53.9681"N	80°39'6.9525"W	8224.10	163.780	0.29
14570.00	89.510	158.270	5956.51	8277.43	-7984.98	2332.43	1737765.26	14568709.08	40°06'53.0949"N	80°39'6.5035"W	8318.66	163.717	0.15
14665.00	89.380	156.000	5957.43	8372.41	-8072.50	2369.34	1737802.15	14568621.59	40°06'52.2286"N	80°39'6.0329"W	8413.03	163.643	2.39
14760.00	89.170	156.220	5958.63	8467.35	-8159.36	2407.81	1737840.61	14568534.77	40°06'51.3688"N	80°39'5.5421"W	8507.21	163.559	0.32
14856.00	89.170	156.360	5960.02	8563.30	-8247.25	2446.41	1737879.19	14568446.91	40°06'50.4988"N	80°39'5.0497"W	8602.44	163.478	0.15
14951.00	88.980	156.550	5961.55	8658.25	-8334.33	2484.36	1737917.12	14568359.87	40°06'49.6368"N	80°39'4.5658"W	8696.72	163.401	0.28
15046.00	89.420	156.070	5962.88	8753.20	-8421.31	2522.52	1737955.27	14568272.92	40°06'48.7757"N	80°39'4.0789"W	8791.00	163.325	0.69
15142.00	89.290	156.110	5963.96	8849.14	-8509.07	2561.43	1737994.16	14568185.20	40°06'47.9070"N	80°39'3.5826"W	8886.23	163.247	0.14
15237.00	89.200	155.760	5965.21	8944.07	-8595.80	2600.16	1738032.88	14568098.49	40°06'47.0484"N	80°39'3.0884"W	8980.46	163.170	0.38
15332.00	89.290	156.050	5966.46	9039.00	-8682.52	2638.94	1738071.65	14568011.81	40°06'46.1899"N	80°39'2.5937"W	9074.70	163.094	0.32
15427.00	89.320	156.130	5967.62	9133.94	-8769.36	2677.44	1738110.14	14567925.01	40°06'45.3303"N	80°39'2.1025"W	9168.99	163.022	0.09
15523.00	89.350	156.260	5968.73	9229.88	-8857.19	2716.19	1738148.87	14567837.21	40°06'44.4609"N	80°39'1.6083"W	9264.31	162.951	0.14
15618.00	89.230	156.540	5969.91	9324.84	-8944.23	2754.22	1738186.88	14567750.20	40°06'43.5992"N	80°39'1.1232"W	9358.69	162.885	0.32
15715.00	89.260	155.960	5971.19	9421.78	-9033.01	2793.28	1738225.93	14567661.46	40°06'42.7203"N	80°39'0.6250"W	9455.04	162.817	0.60
15812.00	89.260	156.100	5972.44	9518.72	-9121.64	2832.69	1738265.32	14567572.87	40°06'41.8430"N	80°39'0.1223"W	9551.35	162.748	0.14
15908.00	89.380	156.110	5973.58	9614.66	-9209.40	2871.57	1738304.18	14567485.13	40°06'40.9742"N	80°38'59.6263"W	9646.71	162.682	0.13
16004.00	89.200	155.820	5974.77	9710.59	-9297.07	2910.67	1738343.27	14567397.50	40°06'40.1063"N	80°38'59.1275"W	9742.05	162.616	0.36
16101.00	89.260	156.090	5976.07	9807.52	-9385.65	2950.19	1738382.77	14567308.96	40°06'39.2295"N	80°38'58.6234"W	9838.39	162.551	0.29
16197.00	89.320	156.200	5977.26	9903.46	-9473.44	2989.01	1738421.58	14567221.20	40°06'38.3604"N	80°38'58.1282"W	9933.79	162.489	0.13
16294.00	89.420	156.300	5978.33	10000.41	-9562.22	3028.07	1738460.63	14567132.46	40°06'37.4815"N	80°38'57.6300"W	10030.22	162.429	0.15
16391.00	89.510	156.370	5979.23	10097.36	-9651.06	3067.00	1738499.54	14567043.65	40°06'36.6021"N	80°38'57.1334"W	10126.67	162.370	0.12
16488.00	89.570	156.390	5980.01	10194.32	-9739.93	3105.87	1738538.39	14566954.82	40°06'35.7224"N	80°38'56.6377"W	10223.14	162.314	0.07
16585.00	89.570	156.170	5980.74	10291.27	-9828.73	3144.89	1738577.40	14566866.05	40°06'34.8433"N	80°38'56.1400"W	10319.61	162.257	0.23
16681.00	89.510	156.040	5981.51	10387.21	-9916.50	3183.77	1738616.26	14566778.31	40°06'33.9744"N	80°38'55.6441"W	10415.06	162.200	0.15



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
16778.00	89.600	158.330	5982.26	10484.20	-10005.90	3221.38	1738653.86	14566688.95	40°06'33.0895"N	80°38'55.1646"W	10511.68	162.154	2.36
16874.00	89.450	158.250	5983.06	10580.19	-10095.09	3256.89	1738689.35	14566599.79	40°06'32.2067"N	80°38'54.7121"W	10607.46	162.119	0.18
16969.00	89.820	158.280	5983.66	10675.19	-10183.34	3292.07	1738724.52	14566511.58	40°06'31.3333"N	80°38'54.2638"W	10702.24	162.085	0.39
17064.00	89.660	158.120	5984.10	10770.19	-10271.54	3327.35	1738759.79	14566423.41	40°06'30.4603"N	80°38'53.8143"W	10797.03	162.051	0.24
17160.00	89.540	158.320	5984.77	10866.18	-10360.69	3362.97	1738795.39	14566334.30	40°06'29.5780"N	80°38'53.3604"W	10892.81	162.017	0.24
17256.00	89.750	158.290	5985.36	10962.18	-10449.88	3398.46	1738830.86	14566245.14	40°06'28.6951"N	80°38'52.9082"W	10988.61	161.985	0.22
17353.00	89.450	158.310	5986.04	11059.18	-10540.01	3434.32	1738866.71	14566155.05	40°06'27.8031"N	80°38'52.4512"W	11085.41	161.952	0.31
17449.00	89.480	158.170	5986.93	11155.17	-10629.16	3469.91	1738902.29	14566065.93	40°06'26.9207"N	80°38'51.9978"W	11181.21	161.921	0.15
17544.00	89.880	158.420	5987.46	11250.17	-10717.43	3505.04	1738937.41	14565977.70	40°06'26.0471"N	80°38'51.5501"W	11276.02	161.890	0.50
17640.00	90.000	157.990	5987.57	11346.17	-10806.56	3540.68	1738973.04	14565888.60	40°06'25.1648"N	80°38'51.0960"W	11371.82	161.859	0.47
17736.00	89.820	158.280	5987.72	11442.17	-10895.66	3576.44	1739008.78	14565799.54	40°06'24.2830"N	80°38'50.6404"W	11467.62	161.828	0.36
17832.00	89.880	158.300	5987.97	11538.17	-10984.85	3611.95	1739044.27	14565710.39	40°06'23.4002"N	80°38'50.1879"W	11563.43	161.799	0.07
17928.00	89.850	158.310	5988.19	11634.16	-11074.05	3647.44	1739079.75	14565621.22	40°06'22.5174"N	80°38'49.7358"W	11659.26	161.770	0.03
18024.00	89.850	158.330	5988.45	11730.16	-11163.26	3682.90	1739115.20	14565532.05	40°06'21.6344"N	80°38'49.2839"W	11755.08	161.742	0.02
18120.00	89.720	158.150	5988.81	11826.16	-11252.41	3718.49	1739150.77	14565442.92	40°06'20.7520"N	80°38'48.8305"W	11850.91	161.713	0.23
18215.00	89.820	158.060	5989.19	11921.16	-11340.56	3753.91	1739186.18	14565354.81	40°06'19.8795"N	80°38'48.3791"W	11945.72	161.685	0.14
18311.00	89.660	157.900	5989.62	12017.16	-11429.56	3789.91	1739222.16	14565265.85	40°06'18.9986"N	80°38'47.9204"W	12041.52	161.655	0.24
18406.00	89.880	158.360	5990.00	12112.16	-11517.72	3825.29	1739257.54	14565177.72	40°06'18.1260"N	80°38'47.4695"W	12136.34	161.628	0.54
18501.00	89.720	158.080	5990.34	12207.16	-11605.94	3860.54	1739292.77	14565089.54	40°06'17.2528"N	80°38'47.0204"W	12231.17	161.601	0.34
18596.00	89.660	158.060	5990.85	12302.15	-11694.06	3896.02	1739328.24	14565001.45	40°06'16.3806"N	80°38'46.5683"W	12325.99	161.574	0.07
18693.00	89.480	157.730	5991.58	12399.15	-11783.93	3932.52	1739364.72	14564911.62	40°06'15.4911"N	80°38'46.1032"W	12422.79	161.545	0.39
18788.00	89.660	158.250	5992.29	12494.15	-11872.00	3968.13	1739400.31	14564823.58	40°06'14.6193"N	80°38'45.6495"W	12517.61	161.518	0.58
18883.00	89.320	158.240	5993.14	12589.14	-11960.23	4003.33	1739435.51	14564735.38	40°06'13.7461"N	80°38'45.2009"W	12612.45	161.494	0.36
18979.00	89.260	158.190	5994.33	12685.14	-12049.37	4038.96	1739471.12	14564646.28	40°06'12.8638"N	80°38'44.7470"W	12708.28	161.469	0.08
19074.00	89.260	158.350	5995.55	12780.13	-12137.61	4074.13	1739506.27	14564558.07	40°06'11.9904"N	80°38'44.2990"W	12803.13	161.445	0.17
19170.00	89.480	158.100	5996.61	12876.12	-12226.76	4109.74	1739541.87	14564468.96	40°06'11.1081"N	80°38'43.8453"W	12898.97	161.421	0.35
19266.00	89.380	157.980	5997.56	12972.12	-12315.79	4145.64	1739577.75	14564379.97	40°06'10.2269"N	80°38'43.3879"W	12994.80	161.396	0.16
19362.00	89.320	157.910	5998.65	13068.11	-12404.76	4181.68	1739613.78	14564291.03	40°06'9.3462"N	80°38'42.9286"W	13090.62	161.371	0.10
19459.00	90.770	158.580	5998.58	13165.11	-12494.84	4217.63	1739649.72	14564200.98	40°06'8.4546"N	80°38'42.4706"W	13187.48	161.348	1.65
19555.00	89.910	158.320	5998.01	13261.10	-12584.13	4252.89	1739684.97	14564111.73	40°06'7.5708"N	80°38'42.0214"W	13283.35	161.327	0.94



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
19652.00	91.540	159.620	5996.78	13358.07	-12674.66	4287.70	1739719.76	14564021.24	40°06'6.6749"N	80°38'41.5781"W	13380.26	161.310	2.15
19748.00	90.520	158.610	5995.05	13454.04	-12764.33	4321.92	1739753.96	14563931.60	40°06'5.7873"N	80°38'41.1424"W	13476.17	161.294	1.50
19844.00	92.830	158.170	5992.25	13549.99	-12853.54	4357.25	1739789.29	14563842.42	40°06'4.9044"N	80°38'40.6923"W	13572.00	161.274	2.45
19940.00	93.940	158.120	5986.58	13645.82	-12942.49	4392.93	1739824.95	14563753.51	40°06'4.0240"N	80°38'40.2378"W	13667.69	161.252	1.16
20036.00	90.490	158.180	5982.87	13741.73	-13031.51	4428.62	1739860.63	14563664.53	40°06'3.1429"N	80°38'39.7830"W	13763.46	161.230	3.59
20132.00	88.610	157.990	5983.62	13837.72	-13120.56	4464.45	1739896.44	14563575.50	40°06'2.2614"N	80°38'39.3265"W	13859.31	161.208	1.97
20227.00	87.910	157.910	5986.51	13932.68	-13208.58	4500.10	1739932.08	14563487.53	40°06'1.3903"N	80°38'38.8723"W	13954.12	161.186	0.74
20322.00	87.880	157.930	5990.00	14027.62	-13296.55	4535.79	1739967.75	14563399.59	40°06'0.5195"N	80°38'38.4176"W	14048.90	161.164	0.04
20418.00	88.520	158.890	5993.01	14123.56	-13385.77	4571.09	1740003.04	14563310.41	40°05'59.6364"N	80°38'37.9679"W	14144.74	161.146	1.20
20515.00	87.320	157.790	5996.53	14220.50	-13475.86	4606.87	1740038.81	14563220.35	40°05'58.7448"N	80°38'37.5121"W	14241.56	161.126	1.68
20611.00	87.940	158.140	6000.50	14316.41	-13564.77	4642.86	1740074.78	14563131.48	40°05'57.8647"N	80°38'37.0536"W	14337.33	161.105	0.74
20707.00	88.030	157.590	6003.88	14412.35	-13653.64	4679.00	1740110.91	14563042.64	40°05'56.9851"N	80°38'36.5930"W	14433.12	161.084	0.58
20804.00	88.620	157.800	6006.71	14509.31	-13743.34	4715.80	1740147.70	14562952.97	40°05'56.0972"N	80°38'36.1241"W	14529.91	161.061	0.65
20900.00	88.490	158.370	6009.13	14605.28	-13832.37	4751.62	1740183.50	14562863.97	40°05'55.2159"N	80°38'35.6678"W	14625.75	161.042	0.61
20996.00	88.680	157.910	6011.51	14701.25	-13921.44	4787.36	1740219.22	14562774.94	40°05'54.3343"N	80°38'35.2126"W	14721.60	161.023	0.52
21093.00	88.980	157.990	6013.49	14798.23	-14011.33	4823.76	1740255.61	14562685.09	40°05'53.4446"N	80°38'34.7487"W	14818.44	161.003	0.32
21189.00	89.110	157.970	6015.09	14894.21	-14100.31	4859.75	1740291.59	14562596.14	40°05'52.5638"N	80°38'34.2902"W	14914.29	160.983	0.14
21286.00	89.200	158.110	6016.52	14991.20	-14190.27	4896.02	1740327.84	14562506.22	40°05'51.6734"N	80°38'33.8282"W	15011.15	160.964	0.17
21382.00	89.200	157.900	6017.86	15087.19	-14279.27	4931.97	1740363.78	14562417.25	40°05'50.7925"N	80°38'33.3702"W	15107.02	160.945	0.22
21477.00	90.150	158.040	6018.40	15182.19	-14367.33	4967.61	1740399.40	14562329.22	40°05'49.9208"N	80°38'32.9162"W	15201.89	160.927	1.01
21572.00	89.050	158.360	6019.06	15277.19	-14455.54	5002.88	1740434.67	14562241.06	40°05'49.0478"N	80°38'32.4668"W	15296.78	160.910	1.21
21668.00	89.600	158.390	6020.19	15373.18	-14544.77	5038.26	1740470.03	14562151.86	40°05'48.1646"N	80°38'32.0162"W	15392.68	160.894	0.57
21764.00	89.850	158.080	6020.65	15469.18	-14633.93	5073.86	1740505.61	14562062.73	40°05'47.2821"N	80°38'31.5628"W	15488.57	160.878	0.41
21859.00	89.050	157.950	6021.56	15564.17	-14722.01	5109.42	1740541.16	14561974.68	40°05'46.4102"N	80°38'31.1097"W	15583.45	160.860	0.85
21954.00	89.290	158.440	6022.94	15659.16	-14810.21	5144.70	1740576.43	14561886.52	40°05'45.5373"N	80°38'30.6603"W	15678.34	160.844	0.57
22049.00	89.050	157.950	6024.31	15754.15	-14898.40	5179.99	1740611.70	14561798.36	40°05'44.6643"N	80°38'30.2108"W	15773.22	160.828	0.57
22145.00	89.020	157.970	6025.93	15850.14	-14987.37	5216.01	1740647.70	14561709.43	40°05'43.7837"N	80°38'29.7520"W	15869.09	160.811	0.04
22241.00	89.230	158.110	6027.40	15946.12	-15076.40	5251.90	1740683.59	14561620.44	40°05'42.9025"N	80°38'29.2947"W	15964.97	160.794	0.26
22336.00	88.950	157.960	6028.91	16041.11	-15164.49	5287.43	1740719.10	14561532.38	40°05'42.0305"N	80°38'28.8421"W	16059.85	160.778	0.33
22431.00	89.230	157.910	6030.42	16136.10	-15252.52	5323.11	1740754.77	14561444.38	40°05'41.1592"N	80°38'28.3875"W	16154.72	160.761	0.30



Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH DATA (265 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]
22527.00	89.350	158.090	6031.60	16232.09	-15341.52	5359.07	1740790.72	14561355.42	40°05'40.2782"N	80°38'27.9294"W	16250.60	160.745	0.23
22622.00	89.230	157.830	6032.78	16327.09	-15429.57	5394.72	1740826.35	14561267.40	40°05'39.4067"N	80°38'27.4753"W	16345.48	160.729	0.30
22717.00	89.380	158.090	6033.93	16422.08	-15517.63	5430.37	1740861.98	14561179.38	40°05'38.5351"N	80°38'27.0213"W	16440.36	160.713	0.32
22813.00	89.080	158.310	6035.22	16518.07	-15606.75	5466.02	1740897.61	14561090.29	40°05'37.6530"N	80°38'26.5672"W	16536.26	160.698	0.39
22908.00	89.080	158.860	6036.75	16613.05	-15695.18	5500.70	1740932.28	14561001.90	40°05'36.7777"N	80°38'26.1255"W	16631.19	160.686	0.58
23003.00	89.290	158.910	6038.10	16708.03	-15783.79	5534.92	1740966.49	14560913.32	40°05'35.9007"N	80°38'25.6898"W	16726.13	160.676	0.23
23099.00	89.260	159.200	6039.32	16804.01	-15873.44	5569.23	1741000.79	14560823.70	40°05'35.0134"N	80°38'25.2530"W	16822.08	160.666	0.30
23194.00	89.110	158.730	6040.67	16898.98	-15962.10	5603.33	1741034.87	14560735.08	40°05'34.1359"N	80°38'24.8189"W	16917.03	160.657	0.52
23290.00	88.860	158.890	6042.37	16994.96	-16051.60	5638.02	1741069.55	14560645.62	40°05'33.2501"N	80°38'24.3771"W	17012.97	160.647	0.31
23385.00	88.550	159.070	6044.51	17089.92	-16140.25	5672.09	1741103.61	14560557.00	40°05'32.3726"N	80°38'23.9434"W	17107.90	160.637	0.38
23575.00	88.580	159.080	6049.27	17279.83	-16317.67	5739.92	1741171.42	14560379.65	40°05'30.6167"N	80°38'23.0798"W	17297.77	160.620	0.02
23671.00	88.550	159.090	6051.68	17375.78	-16407.31	5774.18	1741205.66	14560290.04	40°05'29.7294"N	80°38'22.6437"W	17393.71	160.612	0.03
23766.00	88.550	159.040	6054.08	17470.74	-16496.01	5808.12	1741239.58	14560201.38	40°05'28.8515"N	80°38'22.2117"W	17488.65	160.603	0.05
23861.00	88.550	159.150	6056.48	17565.69	-16584.73	5842.00	1741273.46	14560112.69	40°05'27.9735"N	80°38'21.7803"W	17583.58	160.595	0.12
23956.00	88.370	158.910	6059.04	17660.64	-16673.41	5875.99	1741307.43	14560024.05	40°05'27.0958"N	80°38'21.3476"W	17678.51	160.587	0.32
24053.00	88.520	159.020	6061.67	17757.59	-16763.91	5910.80	1741342.22	14559933.59	40°05'26.2000"N	80°38'20.9045"W	17775.44	160.578	0.19
24148.00	88.400	159.190	6064.22	17852.54	-16852.63	5944.67	1741376.08	14559844.90	40°05'25.3219"N	80°38'20.4734"W	17870.37	160.570	0.22
24243.00	88.490	159.270	6066.80	17947.48	-16941.42	5978.34	1741409.74	14559756.14	40°05'24.4431"N	80°38'20.0447"W	17965.31	160.563	0.13
24338.00	88.520	158.980	6069.28	18042.43	-17030.16	6012.18	1741443.57	14559667.44	40°05'23.5649"N	80°38'19.6140"W	18060.25	160.555	0.31
24434.00	88.520	159.110	6071.76	18138.38	-17119.78	6046.50	1741477.87	14559577.86	40°05'22.6779"N	80°38'19.1771"W	18156.18	160.547	0.14
24530.00	88.550	159.050	6074.21	18234.34	-17209.42	6080.77	1741512.13	14559488.25	40°05'21.7907"N	80°38'18.7408"W	18252.12	160.540	0.07
24625.00	88.550	159.110	6076.62	18329.29	-17298.13	6114.68	1741546.03	14559399.57	40°05'20.9127"N	80°38'18.3092"W	18347.06	160.532	0.06
24721.00	88.400	159.040	6079.17	18425.24	-17387.77	6148.95	1741580.29	14559309.97	40°05'20.0255"N	80°38'17.8729"W	18443.00	160.525	0.17
24816.00	88.490	158.990	6081.75	18520.19	-17476.43	6182.96	1741614.28	14559221.34	40°05'19.1479"N	80°38'17.4400"W	18537.93	160.517	0.11
24842.00‡	88.490	158.990	6082.44	18546.17	-17500.70	6192.28	1741623.60	14559197.09	40°05'18.9078"N	80°38'17.3213"W	18563.91	160.515	0.00

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Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'

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Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

HOLE & CASING SECTIONS - Ref Wellbore: Franz Thoman OHI 6H PWB Ref Wellpath: Franz Thoman OHI 6H awp Proj: 24842'

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]
13.375in Casing	26.00	424.00	398.00	26.00	424.00	0.00	0.00	0.07	1.51
9.625in Casing	26.00	1758.00	1732.00	26.00	1740.90	0.00	0.00	46.53	-174.80

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Franz Thoman OHI 6H LP rev 4	5878.00	-342.86	-742.77	1734691.26	14576348.20	40°08'8.7317"N	80°39'45.7117"W	point
Franz Thoman OHI 6H wp2	5879.70	-10225.28	3330.64	1738763.08	14566469.65	40°06'30.9173"N	80°38'53.7695"W	point
Franz Thoman OHI 6H LP rev 3	5896.00	-342.86	-742.77	1734691.26	14576348.20	40°08'8.7317"N	80°39'45.7117"W	point
Franz Thoman OHI 6H wp1	5976.45	-8346.12	2462.52	1737895.30	14568348.08	40°06'49.5211"N	80°39'4.8474"W	point
Franz Thoman OHI 6H BHL rev 4	6091.00	-17504.42	6184.24	1741615.56	14559193.37	40°05'18.8713"N	80°38'17.4250"W	point
Franz Thoman OHI 6H BHL rev 3	6096.00	-17504.42	6184.24	1741615.56	14559193.37	40°05'18.8713"N	80°38'17.4250"W	point

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Actual Wellpath Report

Franz Thoman OHI 6H awp Proj: 24842'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EXPAND ENERGY	Well	Franz Thoman OHI 6H
Field	Ohio	API	47069003700000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 6H PWB
Slot	6H		

WELLPATH COMPOSITION - Ref Wellbore: Franz Thoman OHI 6H PWB Ref Wellpath: Franz Thoman OHI 6H awp Proj: 24842'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	367.00	OWSG MWD rev2 + HRGM	1 Total MWD HRGM 17.5" 179' - 367'	Franz Thoman OHI 6H PWB	12/21/2024
367.00	1683.00	OWSG MWD rev2 + HRGM	2 Total MWD HRGM 12.25" 449' - 1683'	Franz Thoman OHI 6H PWB	12/21/2024
1683.00	5165.00	OWSG MWD rev2 + HRGM	3 Total MWD HRGM 8.75" 1791' - 5165'	Franz Thoman OHI 6H PWB	12/21/2024
5165.00	24842.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH ATC MWD HRGM Short spacing 8.5" 5256' - 24816'	Franz Thoman OHI 6H PWB	12/21/2024

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EXPAND ENERGY



Location: Ohio County, WV

Field: Ohio

Facility: Franz Thoman OHI Pad

Slot: 6H

Well: Franz Thoman OHI 6H

Wellbore: Franz Thoman OHI 6H PWB

Plot reference wellpath is Franz Thoman OHI 6H awp Proj: 24842

Grid System: NAD83 / UTM Zone 17 North, US feet

True vertical depths are referenced to SDC41 (KB)

North Reference: Grid north

Reference wellpath measured depths are referenced to SDC41 (KB)

Scale: True distance

SDC41 (KB) to Mean Sea Level: 1163.2 feet

Coordinates are in feet referenced to Slot

Mean Sea Level to Ground level (At Slot: 6H): -1137.2 feet

Depths are in feet

Offset wellpath MDs are referenced to each path's default MD datum

Created by: tranlam on 2024-12-26; Database: WA_MPL_EASTERNUS_Defn

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Franz Thoman OHI Pad			1735483.620	14576675.990	40°08'11.9423"N	80°39'35.4898"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
6H	14.95	-49.90	1735433.740	14576690.930	40°08'12.0919"N	80°39'36.1315"W
SDC41 (KB) to Ground level (At Slot: 6H)					26ft	
Mean Sea Level to Ground level (At Slot: 6H)					-1137.2ft	
SDC41 (KB) to Mean Sea Level					1163.2ft	

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
24842.00	88.490	158.990	6082.44	-17500.70	6192.28	1741623.60	14559197.09	40°05'18.9078"N	80°38'17.3213"W

API: 47069003700000
BH JOB: 112498526
DURATION: 12/22/2024 - 12/25/2024
RIG: SDC 41

