



Actual Wellpath Report

Franz Thoman OHI 206H awp Proj: 18624'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 206H
Field	Ohio	API	47069003710000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 206H AWB
Slot	206H		

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	1/9/2025 at 11:05:26 AM
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	18.84	-63.34	1735420.30	14576694.82	40°08'12.1309"N	80°39'36.3044"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	1163.40ft
Horizontal Reference Pt	Slot	SDC41 (KB) to Mean Sea Level	1163.40ft
Vertical Reference Pt	SDC41 (KB)	SDC41 (KB) to Ground Level at Slot (206H)	26.00ft
MD Reference Pt	SDC41 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	158.39°

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Office of Oil and Gas
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Environmental Protection



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WELLPATH DATA (198 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	272.650	0.00	0.00	0.00	0.00	1735420.30	14576694.82	40°08'12.1309"N	80°39'36.3044"W	0.00	0.000	0.00
26.00	0.000	272.650	26.00	0.00	0.00	0.00	1735420.30	14576694.82	40°08'12.1309"N	80°39'36.3044"W	0.00	0.000	0.00
178.00	0.130	272.650	178.00	-0.07	0.01	-0.17	1735420.13	14576694.83	40°08'12.1310"N	80°39'36.3067"W	0.17	272.650	0.09
240.00	0.200	95.270	240.00	-0.05	0.00	-0.13	1735420.17	14576694.82	40°08'12.1309"N	80°39'36.3062"W	0.13	270.547	0.53
419.00	0.640	143.110	418.99	1.05	-0.83	0.78	1735421.08	14576693.99	40°08'12.1227"N	80°39'36.2945"W	1.13	136.805	0.29
508.00	0.530	189.140	507.99	1.89	-1.63	1.01	1735421.31	14576693.19	40°08'12.1147"N	80°39'36.2915"W	1.92	148.245	0.53
600.00	1.830	250.590	599.97	2.20	-2.54	-0.44	1735419.86	14576692.28	40°08'12.1058"N	80°39'36.3103"W	2.58	189.912	1.79
690.00	3.550	253.090	689.87	1.91	-3.83	-4.47	1735415.84	14576690.99	40°08'12.0932"N	80°39'36.3621"W	5.88	229.399	1.92
781.00	5.160	252.330	780.60	1.40	-5.89	-11.06	1735409.24	14576688.93	40°08'12.0731"N	80°39'36.4471"W	12.53	241.967	1.77
872.00	7.420	254.670	871.05	0.48	-8.69	-20.63	1735399.68	14576686.14	40°08'12.0458"N	80°39'36.5705"W	22.38	247.167	2.50
962.00	9.200	253.140	960.10	-0.75	-12.31	-33.12	1735387.19	14576682.52	40°08'12.0105"N	80°39'36.7315"W	35.33	249.613	1.99
1052.00	10.820	253.840	1048.73	-2.15	-16.75	-48.12	1735372.20	14576678.08	40°08'11.9672"N	80°39'36.9248"W	50.95	250.811	1.81
1143.00	12.370	254.680	1137.87	-4.03	-21.70	-65.72	1735354.60	14576673.13	40°08'11.9189"N	80°39'37.1517"W	69.21	251.729	1.71
1234.00	14.050	255.370	1226.46	-6.44	-27.07	-85.81	1735334.52	14576667.77	40°08'11.8667"N	80°39'37.4107"W	89.98	252.495	1.85
1325.00	14.210	258.510	1314.71	-9.75	-32.08	-107.45	1735312.89	14576662.75	40°08'11.8179"N	80°39'37.6894"W	112.14	253.376	0.86
1416.00	14.290	264.180	1402.91	-14.77	-35.44	-129.57	1735290.78	14576659.39	40°08'11.7855"N	80°39'37.9744"W	134.33	254.701	1.54
1507.00	13.690	271.930	1491.22	-22.12	-36.22	-151.50	1735268.85	14576658.61	40°08'11.7787"N	80°39'38.2569"W	155.77	256.555	2.16
1598.00	14.400	278.930	1579.50	-32.17	-34.10	-173.45	1735246.92	14576660.73	40°08'11.8005"N	80°39'38.5393"W	176.77	258.877	2.02
1689.00	15.650	283.990	1667.39	-45.07	-29.38	-196.54	1735223.84	14576665.45	40°08'11.8480"N	80°39'38.8364"W	198.72	261.499	1.99
1728.00	15.990	284.510	1704.92	-51.30	-26.76	-206.84	1735213.54	14576668.07	40°08'11.8743"N	80°39'38.9689"W	208.57	262.629	0.94
1814.00	16.020	282.550	1787.58	-64.94	-21.21	-229.89	1735190.50	14576673.62	40°08'11.9299"N	80°39'39.2654"W	230.87	264.728	0.63
1904.00	20.120	289.150	1873.14	-82.03	-13.43	-256.65	1735163.75	14576681.39	40°08'12.0078"N	80°39'39.6096"W	257.00	267.004	5.09
1995.00	21.680	292.400	1958.15	-103.93	-1.89	-286.98	1735133.43	14576692.93	40°08'12.1230"N	80°39'39.9995"W	286.99	269.622	2.14
2085.00	22.930	295.720	2041.42	-128.38	12.05	-318.15	1735102.28	14576706.87	40°08'12.2620"N	80°39'40.4001"W	318.38	272.170	1.97
2176.00	23.940	296.720	2124.91	-155.20	28.05	-350.61	1735069.83	14576722.86	40°08'12.4213"N	80°39'40.8173"W	351.73	274.574	1.19
2267.00	26.050	299.510	2207.39	-184.55	46.19	-384.50	1735035.95	14576741.00	40°08'12.6019"N	80°39'41.2527"W	387.26	276.851	2.66
2358.00	27.850	301.320	2288.50	-217.07	67.09	-420.05	1735000.42	14576761.88	40°08'12.8097"N	80°39'41.7094"W	425.37	279.074	2.17
2448.00	29.340	301.650	2367.52	-251.52	89.59	-456.78	1734963.70	14576784.37	40°08'13.0334"N	80°39'42.1812"W	465.48	281.096	1.66
2539.00	30.950	303.580	2446.21	-288.60	114.23	-495.26	1734925.24	14576809.01	40°08'13.2784"N	80°39'42.6754"W	508.26	282.988	2.06
2629.00	32.730	305.160	2522.67	-327.96	141.05	-534.43	1734886.08	14576835.81	40°08'13.5448"N	80°39'43.1785"W	552.73	284.784	2.18



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Slot	206H		

WELLPATH DATA (198 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]
2720.00	34.600	305.350	2598.40	-370.20	170.16	-575.62	1734844.90	14576864.92	40°08'13.8341"N	80°39'43.7074"W	600.25	286.469	2.06
2810.00	36.250	306.100	2671.74	-414.11	200.63	-617.97	1734802.58	14576895.37	40°08'14.1368"N	80°39'44.2511"W	649.72	287.986	1.90
2901.00	36.930	306.010	2744.81	-459.95	232.55	-661.82	1734758.74	14576927.28	40°08'14.4539"N	80°39'44.8142"W	701.49	289.361	0.75
2991.00	36.880	306.150	2816.77	-505.62	264.38	-705.50	1734715.08	14576959.10	40°08'14.7701"N	80°39'45.3750"W	753.41	290.543	0.11
3082.00	36.880	305.950	2889.56	-551.76	296.52	-749.65	1734670.94	14576991.22	40°08'15.0893"N	80°39'45.9419"W	806.17	291.581	0.13
3172.00	36.920	305.960	2961.53	-597.37	328.25	-793.40	1734627.22	14577022.94	40°08'15.4045"N	80°39'46.5036"W	858.62	292.476	0.04
3263.00	36.930	305.960	3034.28	-643.52	360.35	-837.65	1734582.98	14577055.03	40°08'15.7234"N	80°39'47.0718"W	911.87	293.277	0.01
3353.00	36.920	305.790	3106.23	-689.11	392.04	-881.46	1734539.19	14577086.70	40°08'16.0382"N	80°39'47.6343"W	964.71	293.978	0.11
3444.00	36.840	305.900	3179.02	-735.15	424.02	-925.73	1734494.93	14577118.67	40°08'16.3559"N	80°39'48.2028"W	1018.22	294.609	0.11
3534.00	36.850	305.970	3251.04	-780.69	455.69	-969.43	1734451.25	14577150.33	40°08'16.6705"N	80°39'48.7638"W	1071.19	295.176	0.05
3626.00	36.860	305.870	3324.66	-827.24	488.06	-1014.11	1734406.58	14577182.69	40°08'16.9920"N	80°39'49.3376"W	1125.45	295.700	0.07
3717.00	36.800	305.830	3397.50	-873.23	520.01	-1058.33	1734362.39	14577214.63	40°08'17.3094"N	80°39'49.9054"W	1179.18	296.167	0.07
3809.00	36.140	305.980	3471.48	-919.36	552.08	-1102.62	1734318.11	14577246.68	40°08'17.6280"N	80°39'50.4741"W	1233.11	296.597	0.72
3899.00	36.200	305.890	3544.13	-964.18	583.25	-1145.63	1734275.12	14577277.84	40°08'17.9376"N	80°39'51.0264"W	1285.55	296.981	0.09
3990.00	36.090	305.950	3617.62	-1009.46	614.74	-1189.10	1734231.67	14577309.32	40°08'18.2504"N	80°39'51.5845"W	1338.60	297.338	0.13
4080.00	35.570	305.810	3690.59	-1053.89	645.62	-1231.79	1734189.00	14577340.18	40°08'18.5571"N	80°39'52.1326"W	1390.72	297.660	0.58
4171.00	36.530	305.690	3764.16	-1098.98	676.90	-1275.25	1734145.55	14577371.46	40°08'18.8679"N	80°39'52.6907"W	1443.76	297.959	1.06
4262.00	35.830	305.950	3837.61	-1144.25	708.34	-1318.81	1734102.01	14577402.88	40°08'19.1802"N	80°39'53.2500"W	1497.00	298.241	0.79
4353.00	35.120	305.990	3911.72	-1188.83	739.36	-1361.55	1734059.29	14577433.89	40°08'19.4884"N	80°39'53.7988"W	1549.34	298.503	0.78
4443.00	32.560	305.980	3986.47	-1231.14	768.81	-1402.10	1734018.75	14577463.33	40°08'19.7809"N	80°39'54.3195"W	1599.05	298.737	2.84
4533.00	35.670	305.810	4060.97	-1273.71	798.40	-1442.99	1733977.88	14577492.90	40°08'20.0748"N	80°39'54.8446"W	1649.14	298.955	3.46
4624.00	37.350	305.660	4134.11	-1319.29	830.01	-1486.93	1733933.95	14577524.51	40°08'20.3889"N	80°39'55.4089"W	1702.91	299.170	1.85
4715.00	37.320	305.710	4206.46	-1365.73	862.21	-1531.76	1733889.14	14577556.69	40°08'20.7087"N	80°39'55.9845"W	1757.75	299.375	0.05
4806.00	37.370	306.770	4278.81	-1412.47	894.84	-1576.28	1733844.64	14577589.31	40°08'21.0328"N	80°39'56.5561"W	1812.57	299.583	0.71
4897.00	37.310	306.700	4351.16	-1459.45	927.85	-1620.52	1733800.42	14577622.31	40°08'21.3607"N	80°39'57.1241"W	1867.35	299.794	0.08
4987.00	37.260	306.720	4422.76	-1505.85	960.44	-1664.22	1733756.73	14577654.89	40°08'21.6844"N	80°39'57.6853"W	1921.48	299.990	0.06
5078.00	37.450	306.600	4495.10	-1552.81	993.41	-1708.52	1733712.45	14577687.84	40°08'22.0118"N	80°39'58.2540"W	1976.33	300.176	0.22
5168.00	36.000	306.690	4567.23	-1598.57	1025.53	-1751.70	1733669.29	14577719.95	40°08'22.3308"N	80°39'58.8084"W	2029.82	300.347	1.61
5259.00	36.000	306.900	4640.85	-1644.13	1057.57	-1794.53	1733626.47	14577751.97	40°08'22.6490"N	80°39'59.3584"W	2082.97	300.512	0.14
5350.00	36.000	306.940	4714.48	-1689.76	1089.70	-1837.29	1733583.73	14577784.09	40°08'22.9681"N	80°39'59.9074"W	2136.14	300.672	0.03



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5440.00	35.950	307.030	4787.31	-1734.88	1121.50	-1879.52	1733541.51	14577815.89	40°08'23.2839"N	80°40'0.4497"W	2188.69	300.824	0.08
5531.00	35.980	306.980	4860.96	-1780.50	1153.67	-1922.20	1733498.85	14577848.04	40°08'23.6034"N	80°40'0.9976"W	2241.83	300.971	0.05
5622.00	35.890	306.690	4934.64	-1826.01	1185.69	-1964.94	1733456.12	14577880.04	40°08'23.9214"N	80°40'1.5464"W	2294.97	301.108	0.21
5712.00	32.680	301.770	5009.01	-1867.98	1214.26	-2006.77	1733414.31	14577908.60	40°08'24.2052"N	80°40'2.0837"W	2345.54	301.177	4.71
5802.00	26.160	289.620	5087.43	-1900.62	1233.75	-2046.20	1733374.90	14577928.09	40°08'24.3993"N	80°40'2.5903"W	2389.36	301.088	9.79
5892.00	21.400	272.500	5169.87	-1920.44	1241.14	-2081.35	1733339.76	14577935.47	40°08'24.4737"N	80°40'3.0426"W	2423.31	300.808	9.27
5984.00	19.760	250.210	5256.12	-1927.80	1236.60	-2112.80	1733308.32	14577930.94	40°08'24.4300"N	80°40'3.4478"W	2448.08	300.340	8.65
6075.00	19.870	226.790	5341.87	-1922.59	1220.78	-2138.59	1733282.55	14577915.12	40°08'24.2746"N	80°40'3.7806"W	2462.49	299.719	8.67
6174.00	24.670	212.460	5433.53	-1904.24	1191.79	-2161.97	1733259.17	14577886.14	40°08'23.9889"N	80°40'4.0830"W	2468.70	298.866	7.29
6270.00	29.840	198.930	5518.92	-1874.29	1152.23	-2180.50	1733240.65	14577846.59	40°08'23.5987"N	80°40'4.3236"W	2466.22	297.853	8.38
6366.00	36.060	188.810	5599.50	-1831.70	1101.62	-2192.60	1733228.56	14577796.01	40°08'23.0991"N	80°40'4.4817"W	2453.79	296.676	8.63
6461.00	44.030	182.280	5672.20	-1777.29	1040.88	-2198.21	1733222.95	14577735.29	40°08'22.4990"N	80°40'4.5569"W	2432.19	295.338	9.47
6557.00	51.120	175.040	5736.97	-1710.86	970.18	-2196.30	1733224.86	14577664.62	40°08'21.8003"N	80°40'4.5357"W	2401.04	293.833	9.24
6652.00	62.820	169.300	5788.70	-1633.62	891.50	-2185.21	1733235.94	14577585.97	40°08'21.0223"N	80°40'4.3967"W	2360.07	292.194	13.31
6748.00	70.480	164.160	5826.74	-1546.50	805.84	-2164.89	1733256.25	14577500.35	40°08'20.1751"N	80°40'4.1392"W	2310.01	290.417	9.37
6844.00	77.220	161.020	5853.43	-1454.60	717.93	-2137.28	1733283.85	14577412.47	40°08'19.3054"N	80°40'3.7880"W	2254.64	288.568	7.69
6939.00	84.020	160.490	5868.91	-1361.01	629.49	-2106.40	1733314.72	14577324.07	40°08'18.4303"N	80°40'3.3946"W	2198.45	286.639	7.18
7035.00	89.510	158.760	5874.32	-1265.22	539.68	-2073.04	1733348.07	14577234.29	40°08'17.5415"N	80°40'2.9694"W	2142.14	284.592	5.99
7130.00	89.320	158.620	5875.29	-1170.23	451.18	-2038.52	1733382.58	14577145.83	40°08'16.6657"N	80°40'2.5292"W	2087.85	282.480	0.25
7225.00	89.290	158.770	5876.44	-1075.24	362.68	-2004.01	1733417.08	14577057.36	40°08'15.7899"N	80°40'2.0891"W	2036.56	280.258	0.16
7320.00	89.350	158.560	5877.57	-980.25	274.20	-1969.45	1733451.63	14576968.91	40°08'14.9142"N	80°40'1.6484"W	1988.44	277.926	0.23
7511.00	89.290	158.220	5879.84	-789.26	96.64	-1899.11	1733521.94	14576791.42	40°08'13.1569"N	80°40'0.7513"W	1901.57	272.913	0.18
7606.00	89.320	158.430	5880.99	-694.27	8.36	-1864.02	1733557.01	14576703.18	40°08'12.2833"N	80°40'0.3038"W	1864.04	270.257	0.22
7701.00	89.600	158.310	5881.89	-599.27	-79.95	-1829.01	1733592.01	14576614.91	40°08'11.4093"N	80°39'59.8572"W	1830.75	267.497	0.32
7797.00	89.380	158.210	5882.74	-503.28	-169.11	-1793.45	1733627.55	14576525.77	40°08'10.5268"N	80°39'59.4038"W	1801.41	264.613	0.25
7892.00	89.380	158.620	5883.77	-408.28	-257.45	-1758.50	1733662.48	14576437.47	40°08'9.6526"N	80°39'58.9581"W	1777.25	261.671	0.43
7987.00	89.380	158.530	5884.80	-313.29	-345.88	-1723.80	1733697.17	14576349.08	40°08'8.7775"N	80°39'58.5156"W	1758.16	258.654	0.09
8083.00	89.570	158.570	5885.68	-217.29	-435.22	-1688.70	1733732.26	14576259.77	40°08'7.8933"N	80°39'58.0679"W	1743.88	255.548	0.20
8178.00	89.450	158.570	5886.49	-122.30	-523.65	-1653.99	1733766.96	14576171.37	40°08'7.0181"N	80°39'57.6253"W	1734.91	252.432	0.13
8273.00	89.540	158.400	5887.33	-27.30	-612.03	-1619.15	1733801.78	14576083.03	40°08'6.1435"N	80°39'57.1811"W	1730.96	249.294	0.20



Actual Wellpath Report

Franz Thoman OHI 206H awp Proj: 18624'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 206H
Field	Ohio	API	47069003710000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 206H AWB
Slot	206H		

WELLPATH DATA (198 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]
8369.00	89.850	158.470	5887.84	68.70	-701.31	-1583.87	1733837.05	14575993.79	40°08'5.2599"N	80°39'56.7311"W	1732.19	246.117	0.33
8559.00	89.850	158.610	5888.33	258.70	-878.14	-1514.36	1733906.54	14575817.03	40°08'3.5099"N	80°39'55.8447"W	1750.54	239.892	0.07
8656.00	89.970	158.540	5888.49	355.70	-968.43	-1478.92	1733941.96	14575726.77	40°08'2.6163"N	80°39'55.3929"W	1767.79	236.782	0.14
8753.00	90.220	158.550	5888.33	452.70	-1058.71	-1443.44	1733977.42	14575636.52	40°08'1.7228"N	80°39'54.9405"W	1790.08	233.741	0.26
8849.00	89.970	158.450	5888.17	548.69	-1148.03	-1408.26	1734012.59	14575547.24	40°08'0.8389"N	80°39'54.4918"W	1816.91	230.813	0.28
8945.00	89.750	158.440	5888.40	644.69	-1237.32	-1372.99	1734047.85	14575457.99	40°07'59.9552"N	80°39'54.0421"W	1848.26	227.975	0.23
9042.00	89.850	157.770	5888.74	741.69	-1327.32	-1336.82	1734084.01	14575368.02	40°07'59.0645"N	80°39'53.5807"W	1883.84	225.204	0.70
9138.00	89.850	158.280	5888.99	837.69	-1416.34	-1300.89	1734119.91	14575279.03	40°07'58.1834"N	80°39'53.1226"W	1923.11	222.567	0.53
9235.00	89.660	157.870	5889.41	934.69	-1506.33	-1264.68	1734156.12	14575189.08	40°07'57.2928"N	80°39'52.6606"W	1966.83	220.016	0.47
9332.00	89.570	157.480	5890.06	1031.68	-1596.05	-1227.83	1734192.95	14575099.39	40°07'56.4048"N	80°39'52.1906"W	2013.69	217.571	0.41
9429.00	89.720	158.490	5890.66	1128.67	-1685.98	-1191.47	1734229.30	14575009.50	40°07'55.5148"N	80°39'51.7269"W	2064.49	215.249	1.05
9525.00	89.880	158.680	5890.99	1224.67	-1775.35	-1156.42	1734264.33	14574920.17	40°07'54.6303"N	80°39'51.2800"W	2118.77	213.079	0.26
9622.00	89.630	158.470	5891.41	1321.67	-1865.65	-1120.99	1734299.75	14574829.90	40°07'53.7366"N	80°39'50.8282"W	2176.52	211.000	0.34
9719.00	89.850	158.620	5891.85	1418.67	-1955.92	-1085.51	1734335.22	14574739.66	40°07'52.8432"N	80°39'50.3758"W	2236.95	209.030	0.27
9815.00	89.570	158.560	5892.33	1514.67	-2045.30	-1050.47	1734370.25	14574650.32	40°07'51.9587"N	80°39'49.9290"W	2299.29	207.185	0.30
9910.00	89.200	158.600	5893.35	1609.66	-2133.73	-1015.77	1734404.92	14574561.93	40°07'51.0835"N	80°39'49.4867"W	2363.18	205.457	0.39
10005.00	89.570	158.640	5894.37	1704.65	-2222.19	-981.14	1734439.54	14574473.50	40°07'50.2081"N	80°39'49.0452"W	2429.15	203.822	0.39
10101.00	89.230	158.240	5895.38	1800.65	-2311.47	-945.87	1734474.80	14574384.26	40°07'49.3245"N	80°39'48.5954"W	2497.51	202.255	0.55
10197.00	89.380	158.460	5896.54	1896.64	-2400.69	-910.45	1734510.20	14574295.07	40°07'48.4415"N	80°39'48.1438"W	2567.53	200.769	0.28
10294.00	89.970	158.540	5897.09	1993.64	-2490.94	-874.90	1734545.74	14574204.86	40°07'47.5483"N	80°39'47.6905"W	2640.12	199.353	0.61
10390.00	89.750	159.010	5897.33	2089.63	-2580.42	-840.15	1734580.48	14574115.41	40°07'46.6627"N	80°39'47.2475"W	2713.75	198.034	0.54
10485.00	90.120	157.640	5897.44	2184.63	-2668.70	-805.06	1734615.55	14574027.16	40°07'45.7890"N	80°39'46.8001"W	2787.49	196.787	1.49
10581.00	89.880	157.640	5897.44	2280.62	-2757.48	-768.54	1734652.06	14573938.42	40°07'44.9103"N	80°39'46.3342"W	2862.58	195.574	0.25
10677.00	89.660	158.660	5897.82	2376.62	-2846.59	-732.81	1734687.78	14573849.35	40°07'44.0284"N	80°39'45.8786"W	2939.40	194.436	1.09
10773.00	89.940	158.100	5898.16	2472.62	-2935.83	-697.44	1734723.13	14573760.14	40°07'43.1452"N	80°39'45.4276"W	3017.54	193.364	0.65
10869.00	89.450	158.500	5898.67	2568.62	-3025.03	-661.95	1734758.61	14573670.98	40°07'42.2624"N	80°39'44.9750"W	3096.60	192.343	0.66
10965.00	89.510	158.430	5899.54	2664.61	-3114.32	-626.71	1734793.84	14573581.72	40°07'41.3787"N	80°39'44.5258"W	3176.75	191.378	0.10
11061.00	90.620	158.870	5899.43	2760.61	-3203.73	-591.76	1734828.77	14573492.34	40°07'40.4938"N	80°39'44.0802"W	3257.93	190.465	1.24
11156.00	89.690	158.540	5899.17	2855.61	-3292.24	-557.26	1734863.26	14573403.87	40°07'39.6179"N	80°39'43.6404"W	3339.07	189.607	1.04
11251.00	89.540	158.670	5899.81	2950.61	-3380.70	-522.60	1734897.90	14573315.45	40°07'38.7425"N	80°39'43.1986"W	3420.85	188.787	0.21



Actual Wellpath Report

Franz Thoman OHI 206H awp Proj: 18624'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 206H
Field	Ohio	API	47069003710000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 206H AWB
Slot	206H		

WELLPATH DATA (198 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]
11347.00	89.230	158.450	5900.84	3046.60	-3470.05	-487.52	1734932.98	14573226.13	40°07'37.8582"N	80°39'42.7513"W	3504.13	187.997	0.40
11441.00	89.230	158.480	5902.11	3140.59	-3557.48	-453.01	1734967.46	14573138.74	40°07'36.9929"N	80°39'42.3114"W	3586.20	187.257	0.03
11537.00	89.290	158.600	5903.35	3236.58	-3646.81	-417.90	1735002.57	14573049.43	40°07'36.1087"N	80°39'41.8637"W	3670.68	186.537	0.14
11634.00	89.110	158.590	5904.70	3333.57	-3737.11	-382.50	1735037.95	14572959.17	40°07'35.2151"N	80°39'41.4124"W	3756.64	185.844	0.19
11729.00	89.380	158.730	5905.95	3428.56	-3825.59	-347.93	1735072.51	14572870.72	40°07'34.3394"N	80°39'40.9718"W	3841.38	185.197	0.32
11824.00	89.420	158.480	5906.95	3523.56	-3914.04	-313.28	1735107.15	14572782.31	40°07'33.4640"N	80°39'40.5300"W	3926.56	184.576	0.27
11920.00	89.420	158.670	5907.92	3619.55	-4003.40	-278.21	1735142.20	14572692.98	40°07'32.5797"N	80°39'40.0830"W	4013.06	183.975	0.20
12015.00	89.420	158.800	5908.88	3714.54	-4091.93	-243.76	1735176.64	14572604.49	40°07'31.7035"N	80°39'39.6438"W	4099.18	183.409	0.14
12111.00	89.350	158.680	5909.91	3810.54	-4181.39	-208.95	1735211.43	14572515.07	40°07'30.8182"N	80°39'39.2001"W	4186.61	182.861	0.14
12207.00	89.510	158.670	5910.87	3906.53	-4270.81	-174.04	1735246.33	14572425.68	40°07'29.9332"N	80°39'38.7551"W	4274.36	182.334	0.17
12303.00	89.420	158.490	5911.76	4002.53	-4360.18	-138.98	1735281.37	14572336.35	40°07'29.0487"N	80°39'38.3082"W	4362.39	181.826	0.21
12400.00	89.480	158.390	5912.69	4099.52	-4450.39	-103.34	1735317.00	14572246.17	40°07'28.1559"N	80°39'37.8538"W	4451.59	181.330	0.12
12497.00	89.510	158.490	5913.55	4196.52	-4540.60	-67.70	1735352.63	14572156.00	40°07'27.2631"N	80°39'37.3994"W	4541.10	180.854	0.11
12593.00	89.600	158.590	5914.29	4292.52	-4629.94	-32.58	1735387.74	14572066.69	40°07'26.3789"N	80°39'36.9517"W	4630.06	180.403	0.14
12690.00	89.510	159.060	5915.05	4389.51	-4720.39	2.46	1735422.76	14571976.28	40°07'25.4838"N	80°39'36.5051"W	4720.39	179.970	0.49
12785.00	89.510	158.600	5915.86	4484.50	-4808.97	36.77	1735457.05	14571887.73	40°07'24.6071"N	80°39'36.0678"W	4809.11	179.562	0.48
12881.00	89.380	158.660	5916.79	4580.50	-4898.37	71.75	1735492.02	14571798.37	40°07'23.7224"N	80°39'35.6220"W	4898.89	179.161	0.15
12977.00	89.380	158.420	5917.83	4676.49	-4987.71	106.87	1735527.13	14571709.07	40°07'22.8382"N	80°39'35.1743"W	4988.85	178.773	0.25
13073.00	89.570	158.560	5918.71	4772.49	-5077.02	142.07	1735562.31	14571619.79	40°07'21.9543"N	80°39'34.7256"W	5079.01	178.397	0.25
13168.00	89.570	158.560	5919.42	4867.48	-5165.44	176.79	1735597.02	14571531.40	40°07'21.0792"N	80°39'34.2830"W	5168.47	178.040	0.00
13263.00	89.820	158.510	5919.93	4962.48	-5253.85	211.55	1735631.77	14571443.03	40°07'20.2042"N	80°39'33.8398"W	5258.11	177.694	0.27
13360.00	89.690	158.460	5920.34	5059.48	-5344.09	247.13	1735667.33	14571352.82	40°07'19.3111"N	80°39'33.3863"W	5349.80	177.352	0.14
13456.00	89.940	158.460	5920.65	5155.48	-5433.39	282.37	1735702.56	14571263.56	40°07'18.4273"N	80°39'32.9370"W	5440.72	177.025	0.26
13552.00	90.030	158.380	5920.68	5251.48	-5522.66	317.68	1735737.86	14571174.33	40°07'17.5438"N	80°39'32.4869"W	5531.79	176.708	0.13
13648.00	89.570	158.520	5921.01	5347.48	-5611.95	352.94	1735773.11	14571085.07	40°07'16.6601"N	80°39'32.0375"W	5623.03	176.401	0.50
13745.00	89.690	158.510	5921.64	5444.48	-5702.20	388.47	1735808.62	14570994.85	40°07'15.7668"N	80°39'31.5846"W	5715.42	176.103	0.12
13841.00	89.350	157.880	5922.44	5540.47	-5791.33	424.13	1735844.26	14570905.76	40°07'14.8847"N	80°39'31.1300"W	5806.84	175.811	0.75
13937.00	89.380	157.970	5923.51	5636.46	-5880.29	460.20	1735880.32	14570816.83	40°07'14.0043"N	80°39'30.6700"W	5898.27	175.525	0.10
14034.00	89.450	158.210	5924.50	5733.46	-5970.28	496.40	1735916.50	14570726.88	40°07'13.1136"N	80°39'30.2086"W	5990.88	175.247	0.26
14130.00	89.420	156.940	5925.44	5829.44	-6059.01	533.02	1735953.11	14570638.18	40°07'12.2354"N	80°39'29.7416"W	6082.41	174.973	1.32



Actual Wellpath Report

Franz Thoman OHI 206H awp Proj: 18624'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 206H
Field	Ohio	API	47069003710000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 206H AWB
Slot	206H		

WELLPATH DATA (198 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]
14227.00	89.200	157.070	5926.61	5926.41	-6148.30	570.91	1735990.98	14570548.93	40°07'11.3516"N	80°39'29.2583"W	6174.75	174.695	0.26
14324.00	89.510	157.530	5927.70	6023.38	-6237.78	608.34	1736028.40	14570459.48	40°07'10.4659"N	80°39'28.7809"W	6267.37	174.430	0.57
14418.00	89.480	158.570	5928.53	6117.37	-6324.96	643.47	1736063.52	14570372.34	40°07'9.6031"N	80°39'28.3330"W	6357.61	174.191	1.11
14513.00	89.380	158.540	5929.48	6212.37	-6413.38	678.20	1736098.24	14570283.95	40°07'8.7280"N	80°39'27.8903"W	6449.14	173.964	0.11
14609.00	89.510	158.630	5930.41	6308.36	-6502.75	713.25	1736133.27	14570194.62	40°07'7.8435"N	80°39'27.4436"W	6541.75	173.741	0.16
14705.00	89.200	158.560	5931.49	6404.36	-6592.12	748.29	1736168.29	14570105.28	40°07'6.9590"N	80°39'26.9971"W	6634.45	173.524	0.33
14800.00	89.080	158.380	5932.91	6499.35	-6680.48	783.15	1736203.14	14570016.96	40°07'6.0845"N	80°39'26.5527"W	6726.23	173.314	0.23
14895.00	89.110	158.320	5934.41	6594.34	-6768.77	818.19	1736238.17	14569928.70	40°07'5.2107"N	80°39'26.1060"W	6818.04	173.108	0.07
14990.00	89.540	158.400	5935.53	6689.33	-6857.07	853.22	1736273.19	14569840.44	40°07'4.3368"N	80°39'25.6595"W	6909.94	172.907	0.46
15086.00	89.420	158.380	5936.40	6785.32	-6946.31	888.58	1736308.53	14569751.23	40°07'3.4535"N	80°39'25.2089"W	7002.92	172.710	0.13
15182.00	89.480	158.400	5937.33	6881.32	-7035.56	923.93	1736343.87	14569662.01	40°07'2.5702"N	80°39'24.7582"W	7095.97	172.519	0.07
15277.00	89.420	158.840	5938.24	6976.31	-7124.02	958.56	1736378.49	14569573.59	40°07'1.6947"N	80°39'24.3169"W	7188.22	172.337	0.47
15372.00	89.540	158.340	5939.10	7071.31	-7212.46	993.24	1736413.15	14569485.18	40°07'0.8194"N	80°39'23.8749"W	7280.53	172.159	0.54
15468.00	89.480	158.290	5939.92	7167.31	-7301.66	1028.71	1736448.61	14569396.02	40°06'59.9365"N	80°39'23.4228"W	7373.77	171.981	0.08
15563.00	89.600	158.270	5940.68	7262.30	-7389.92	1063.86	1736483.75	14569307.80	40°06'59.0631"N	80°39'22.9747"W	7466.10	171.808	0.13
15658.00	89.510	158.380	5941.42	7357.30	-7478.20	1098.95	1736518.82	14569219.55	40°06'58.1894"N	80°39'22.5275"W	7558.51	171.640	0.15
15754.00	89.480	158.510	5942.27	7453.30	-7567.48	1134.22	1736554.08	14569130.30	40°06'57.3057"N	80°39'22.0779"W	7652.01	171.476	0.14
15849.00	89.540	158.530	5943.08	7548.29	-7655.88	1169.01	1736588.85	14569041.94	40°06'56.4308"N	80°39'21.6346"W	7744.61	171.318	0.07
15944.00	89.690	158.300	5943.72	7643.29	-7744.21	1203.95	1736623.78	14568953.64	40°06'55.5566"N	80°39'21.1892"W	7837.24	171.163	0.29
16040.00	89.630	158.510	5944.29	7739.29	-7833.47	1239.28	1736659.10	14568864.41	40°06'54.6731"N	80°39'20.7389"W	7930.90	171.010	0.23
16135.00	89.540	158.380	5944.98	7834.29	-7921.83	1274.19	1736693.99	14568776.10	40°06'53.7987"N	80°39'20.2941"W	8023.65	170.863	0.17
16231.00	89.630	158.310	5945.67	7930.28	-8011.05	1309.61	1736729.40	14568686.91	40°06'52.9156"N	80°39'19.8425"W	8117.39	170.716	0.12
16326.00	89.510	158.350	5946.38	8025.28	-8099.33	1344.69	1736764.46	14568598.66	40°06'52.0419"N	80°39'19.3954"W	8210.20	170.573	0.13
16421.00	89.720	158.240	5947.02	8120.28	-8187.60	1379.82	1736799.58	14568510.43	40°06'51.1683"N	80°39'18.9477"W	8303.05	170.434	0.25
16516.00	89.820	158.330	5947.40	8215.28	-8275.85	1414.97	1736834.72	14568422.21	40°06'50.2948"N	80°39'18.4997"W	8395.94	170.298	0.14
16612.00	90.000	158.290	5947.55	8311.28	-8365.06	1450.45	1736870.18	14568333.04	40°06'49.4119"N	80°39'18.0475"W	8489.87	170.163	0.19
16707.00	89.940	158.160	5947.60	8406.28	-8453.28	1485.69	1736905.41	14568244.85	40°06'48.5388"N	80°39'17.5983"W	8582.84	170.032	0.15
16802.00	89.570	158.330	5948.01	8501.28	-8541.51	1520.90	1736940.61	14568156.66	40°06'47.6655"N	80°39'17.1495"W	8675.86	169.904	0.43
16897.00	89.230	157.980	5949.00	8596.27	-8629.68	1556.25	1736975.94	14568068.52	40°06'46.7928"N	80°39'16.6990"W	8768.89	169.777	0.51
16994.00	89.450	158.250	5950.12	8693.26	-8719.69	1592.40	1737012.08	14567978.55	40°06'45.9020"N	80°39'16.2381"W	8863.90	169.651	0.36



Actual Wellpath Report

Franz Thoman OHI 206H awp Proj: 18624'
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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 206H
Field	Ohio	API	47069003710000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 206H AWB
Slot	206H		

WELLPATH DATA (198 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]
17089.00	89.420	158.240	5951.06	8788.26	-8807.92	1627.61	1737047.28	14567890.35	40°06'45.0288"N	80°39'15.7894"W	8957.04	169.530	0.03
17184.00	89.540	158.280	5951.92	8883.25	-8896.16	1662.80	1737082.45	14567802.15	40°06'44.1554"N	80°39'15.3409"W	9050.22	169.413	0.13
17280.00	89.480	158.270	5952.74	8979.25	-8985.33	1698.33	1737117.97	14567713.01	40°06'43.2728"N	80°39'14.8880"W	9144.43	169.297	0.06
17375.00	89.570	158.290	5953.53	9074.24	-9073.59	1733.49	1737153.11	14567624.79	40°06'42.3993"N	80°39'14.4400"W	9237.69	169.184	0.10
17471.00	89.420	158.540	5954.38	9170.24	-9162.85	1768.80	1737188.41	14567535.56	40°06'41.5158"N	80°39'13.9899"W	9332.01	169.074	0.30
17566.00	89.320	158.070	5955.42	9265.23	-9251.12	1803.92	1737223.51	14567447.33	40°06'40.6423"N	80°39'13.5424"W	9425.35	168.966	0.51
17662.00	89.320	157.960	5956.56	9361.23	-9340.13	1839.86	1737259.43	14567358.35	40°06'39.7612"N	80°39'13.0843"W	9519.61	168.856	0.11
17757.00	89.420	158.010	5957.60	9456.22	-9428.20	1875.46	1737295.03	14567270.32	40°06'38.8896"N	80°39'12.6305"W	9612.92	168.750	0.12
17852.00	89.480	158.140	5958.52	9551.21	-9516.32	1910.93	1737330.49	14567182.23	40°06'38.0174"N	80°39'12.1784"W	9706.29	168.646	0.15
17948.00	89.510	157.960	5959.36	9647.21	-9605.36	1946.82	1737366.36	14567093.22	40°06'37.1361"N	80°39'11.7210"W	9800.66	168.542	0.19
18043.00	89.660	158.940	5960.05	9742.20	-9693.71	1981.71	1737401.23	14567004.90	40°06'36.2616"N	80°39'11.2764"W	9894.20	168.446	1.04
18138.00	89.540	158.170	5960.71	9837.20	-9782.13	2016.44	1737435.95	14566916.52	40°06'35.3865"N	80°39'10.8338"W	9987.80	168.352	0.82
18233.00	89.510	158.310	5961.50	9932.20	-9870.36	2051.66	1737471.16	14566828.32	40°06'34.5133"N	80°39'10.3850"W	10081.34	168.258	0.15
18329.00	89.230	157.970	5962.56	10028.19	-9959.45	2087.40	1737506.88	14566739.27	40°06'33.6315"N	80°39'9.9294"W	10175.85	168.163	0.46
18424.00	89.450	158.620	5963.65	10123.18	-10047.71	2122.53	1737542.00	14566651.04	40°06'32.7580"N	80°39'9.4817"W	10269.45	168.072	0.72
18519.00	89.420	158.370	5964.59	10218.18	-10136.09	2157.36	1737576.81	14566562.70	40°06'31.8832"N	80°39'9.0380"W	10363.14	167.985	0.27
18599.00	89.200	157.920	5965.55	10298.17	-10210.34	2187.14	1737606.58	14566488.48	40°06'31.1484"N	80°39'8.6585"W	10441.96	167.910	0.63
18624.00‡	89.200	157.920	5965.90	10323.17	-10233.50	2196.53	1737615.97	14566465.32	40°06'30.9191"N	80°39'8.5387"W	10466.58	167.886	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Franz Thoman OHI 206H AWB Ref Wellpath: Franz Thoman OHI 206H awp Proj: 18624'

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	420.00	394.00	26.00	419.99	0.00	0.00	-0.84	0.78
9.625in Casing	26.00	1728.00	1702.00	26.00	1704.92	0.00	0.00	-26.76	-206.84
5.5in Casing	26.00	18624.00	18598.00	26.00	5965.90	0.00	0.00	-10233.50	2196.53

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Franz Thoman OHI 206H awp Proj: 18624'

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REFERENCE WELLPATH IDENTIFICATION

Operator	EXPAND ENERGY	Well	Franz Thoman OHI 206H
Field	Ohio	API	47069003710000
Facility	Franz Thoman OHI Pad	Wellbore	Franz Thoman OHI 206H AWB
Slot	206H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Franz Thoman OHI 206H WP1	5864.90	-831.32	-1196.32	1734224.45	14575863.83	40°08'3.9607"N	80°39'51.7478"W	point
Franz Thoman OHI 206H LP rev 4	5870.00	574.42	-2098.68	1733322.44	14577269.02	40°08'17.8858"N	80°40'3.2979"W	point
Franz Thoman OHI 206H BHL rev4	5951.00	-10238.90	2184.84	1737604.29	14566459.93	40°06'30.8663"N	80°39'8.6894"W	point
150' from SE corner of 4-R8K-110 along azimuth of 184.953°	5999.90	993.53	-1534.20	1733886.70	14577687.96	40°08'22.0065"N	80°39'56.0095"W	point
150' from SW corner of 4-R8K-110 along azimuth of 184.953°	5999.90	1005.42	-1671.79	1733749.17	14577699.85	40°08'22.1291"N	80°39'57.7805"W	point

WELLPATH COMPOSITION - Ref Wellbore: Franz Thoman OHI 206H AWB Ref Wellpath: Franz Thoman OHI 206H awp Proj: 18624'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	419.00	OWSG MWD rev2 + HRGM	1 Total MWD HRGM 17.5" 178' - 419'	Franz Thoman OHI 206H AWB	1/3/2025
419.00	1728.00	OWSG MWD rev2 + HRGM	2 Total MWD HRGM 12.25" 508' - 1728'	Franz Thoman OHI 206H AWB	1/3/2025
1728.00	18624.00	OWSG MWD rev2 + HRGM	3 BH ATC MWD HRGM Short spacing 8.5" 1418' - 18599'	Franz Thoman OHI 206H AWB	1/3/2025

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