

Location: Ohio County, WV
Field: Ohio WV
Facility: Timmy Minch OHI Pad

Slot: 10H
Well: Timmy Minch OHI 10H
Wellbore: Timmy Minch OHI 10H AWB

Plot reference wellpath is Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
True vertical depths are referenced to SDC 40 (KB)
Reference wellpath measured depths are referenced to SDC 40 (KB)
SDC 40 (KB) to Mean Sea Level: 1234.2 feet
Mean Sea Level to Ground level (At Slot: 10H): -1208.2 feet
Offset wellpath MDs are referenced to each path's default MD datum

Grid System: NAD83 / UTM Zone 17 North, US feet
North Reference: Grid north
Scale: True distance
Coordinates are in feet referenced to Slot
Depths are in feet
Created by: tranlam on 2022-06-20; Database: WA_MPL_EASTERNUS_Defn

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Timmy Minch OHI Pad			1739330.759	14558022.602	40°05'7.3880"N	80°38'46.8930"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
10H	-28.39	45.12	1739375.860	14557986.220	40°05'7.1254"N	80°38'46.3138"W
SDC 40 (KB) to Ground level (At Slot: 10H)					26ft	
Mean Sea Level to Ground level (At Slot: 10H)					-1208.2ft	
SDC 40 (KB) to Mean Sea Level					1234.2ft	

Bottom Hole Location

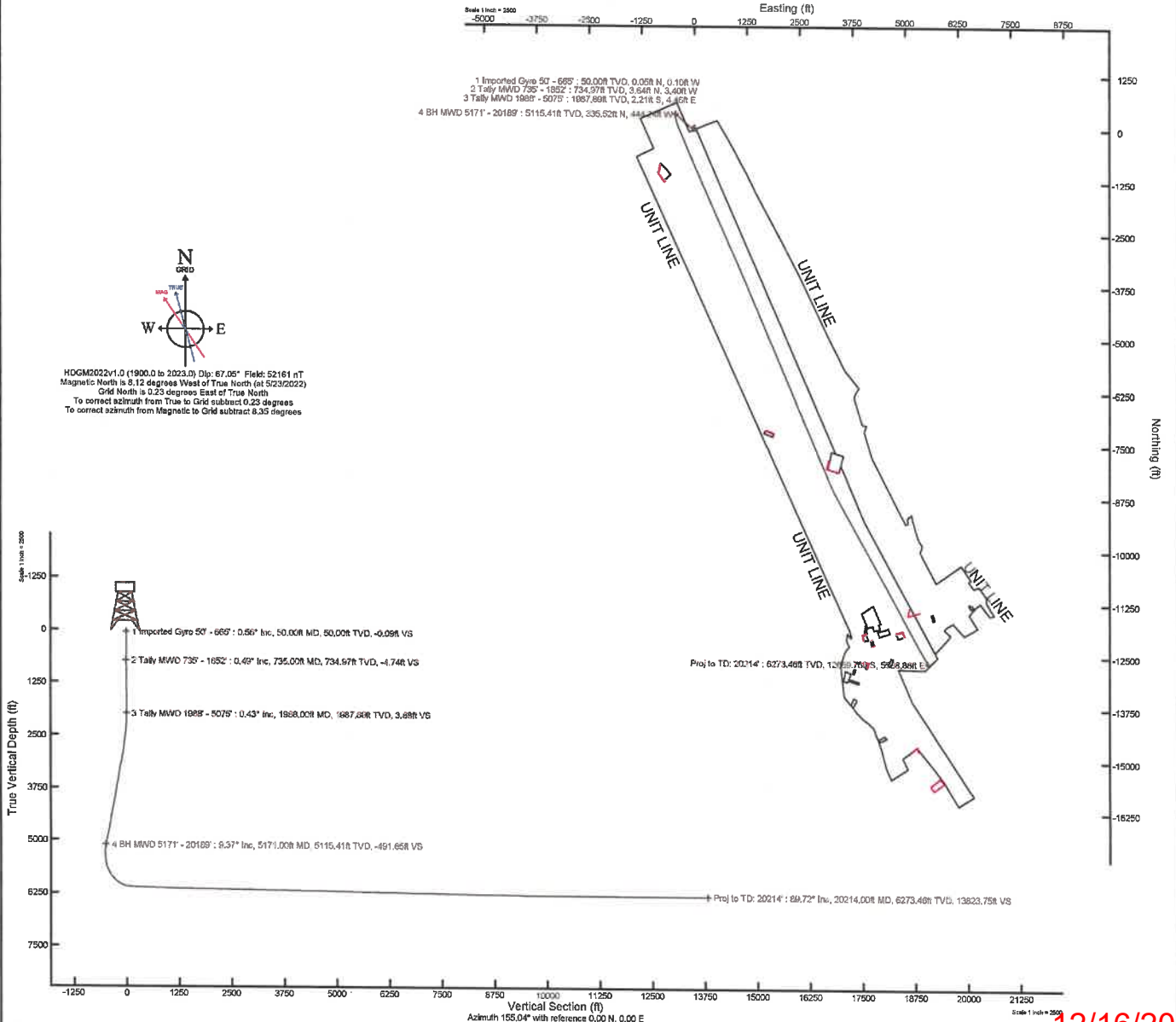
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
20214.00	89.720	151.000	6273.46	-12869.76	5538.86	1744912.55	14545331.41	40°03'1.6978"N	80°37'35.7373"W

API: 47069003360000
BH JOB: 111309777
DURATION: 06.13.2022 to 06.18.2022
RIG: SDC 40

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Actual Wellpath Report

Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 1 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 10H
Field	Ohio VW	API	47069003360000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 10H AWB
Slot	10H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999611	Report Generated	6/20/2022 at 11:06:58 PM
Convergence at slot	0.23° 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	-26.39	45.12	1739375.86	14557996.22	40°05'7.1254"N	80°38'46.3139"W
Facility Reference Pt			1739330.76	14558022.60	40°05'7.3880"N	80°38'46.8930"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM			
Calculation method	Minimum curvature	SDC 40 (KB) to Facility Vertical Datum	1234.20ft
Horizontal Reference Pt	Slot	SDC 40 (KB) to Mean Sea Level	1234.20ft
Vertical Reference Pt	SDC 40 (KB)	SDC 40 (KB) to Ground Level at Slot (10H)	26.00ft
MD Reference Pt	SDC 40 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	155.04°



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Page 2 of 10



REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Timmy Minch OHI 10H
Field	Ohio VW		API	47069003360000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 10H AWB
Slot	10H			

WELLPATH DATA (235 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	DLS ["/100ft]	Comments
0.00†	0.000	297.110	0.00	0.00	0.00	0.00	1739375.86	14557996.22	40°05'7.1254"N	80°38'46.3139"W	0.00	
26.00	0.000	297.110	26.00	0.00	0.00	0.00	1739375.86	14557996.22	40°05'7.1254"N	80°38'46.3139"W	0.00	
50.00	0.560	297.110	50.00	-0.09	0.05	-0.10	1739375.76	14557996.27	40°05'7.1260"N	80°38'46.3152"W	2.33	1 Imported Gyro 50' - 665'
100.00	0.560	306.850	100.00	-0.50	0.31	-0.52	1739375.34	14557996.53	40°05'7.1285"N	80°38'46.3205"W	0.19	
150.00	0.430	299.470	150.00	-0.87	0.55	-0.88	1739374.98	14557996.77	40°05'7.1309"N	80°38'46.3251"W	0.29	
200.00	0.320	303.930	199.99	-1.14	0.72	-1.16	1739374.70	14557996.94	40°05'7.1326"N	80°38'46.3287"W	0.23	
250.00	0.290	284.560	249.99	-1.34	0.83	-1.39	1739374.47	14557997.05	40°05'7.1337"N	80°38'46.3318"W	0.21	
300.00	0.320	301.920	299.99	-1.54	0.94	-1.63	1739374.23	14557997.16	40°05'7.1347"N	80°38'46.3349"W	0.19	
350.00	0.380	287.270	349.99	-1.77	1.06	-1.91	1739373.95	14557997.28	40°05'7.1360"N	80°38'46.3384"W	0.21	
400.00	0.460	303.730	399.99	-2.05	1.22	-2.24	1739373.62	14557997.44	40°05'7.1376"N	80°38'46.3426"W	0.29	
450.00	0.360	265.040	449.99	-2.27	1.32	-2.56	1739373.30	14557997.54	40°05'7.1385"N	80°38'46.3467"W	0.58	
500.00	0.300	290.150	499.99	-2.42	1.35	-2.84	1739373.02	14557997.57	40°05'7.1389"N	80°38'46.3503"W	0.31	
550.00	0.550	311.740	549.99	-2.73	1.55	-3.14	1739372.72	14557997.77	40°05'7.1409"N	80°38'46.3542"W	0.59	
576.00	0.740	321.940	575.99	-3.01	1.77	-3.34	1739372.52	14557997.99	40°05'7.1430"N	80°38'46.3567"W	0.85	
600.00	1.120	336.920	599.98	-3.40	2.11	-3.53	1739372.34	14557998.33	40°05'7.1464"N	80°38'46.3591"W	1.87	
621.00	1.160	343.770	620.98	-3.81	2.50	-3.67	1739372.20	14557998.72	40°05'7.1503"N	80°38'46.3609"W	0.68	
650.00	0.850	355.990	649.97	-4.30	3.00	-3.76	1739372.10	14557999.22	40°05'7.1552"N	80°38'46.3621"W	1.29	
665.00	0.600	11.110	664.97	-4.47	3.18	-3.76	1739372.11	14557999.40	40°05'7.1570"N	80°38'46.3620"W	2.08	
735.00	0.490	70.310	734.97	-4.74	3.64	-3.40	1739372.46	14557999.86	40°05'7.1616"N	80°38'46.3575"W	0.78	2 Tally MWD 735' - 1852'
782.00	0.550	91.330	781.97	-4.62	3.71	-2.99	1739372.87	14557999.93	40°05'7.1622"N	80°38'46.3521"W	0.42	
873.00	1.030	131.200	872.96	-3.68	3.16	-1.94	1739373.92	14557999.38	40°05'7.1567"N	80°38'46.3386"W	0.77	
964.00	1.360	133.990	963.94	-1.92	1.87	-0.54	1739375.32	14557998.09	40°05'7.1439"N	80°38'46.3208"W	0.37	
1054.00	1.190	140.250	1053.92	-0.02	0.41	0.82	1739376.68	14557996.63	40°05'7.1294"N	80°38'46.3033"W	0.24	
1146.00	0.770	139.140	1145.90	1.49	-0.79	1.84	1739377.70	14557995.43	40°05'7.1175"N	80°38'46.2903"W	0.46	
1234.00	0.540	127.030	1233.90	2.43	-1.49	2.56	1739378.41	14557994.73	40°05'7.1106"N	80°38'46.2811"W	0.30	
1330.00	0.530	137.380	1329.89	3.25	-2.09	3.22	1739379.08	14557994.13	40°05'7.1046"N	80°38'46.2726"W	0.10	
1421.00	0.230	148.320	1420.89	3.83	-2.55	3.60	1739379.46	14557993.67	40°05'7.1000"N	80°38'46.2677"W	0.34	
1513.00	0.360	116.960	1512.89	4.24	-2.84	3.95	1739379.81	14557993.38	40°05'7.0972"N	80°38'46.2632"W	0.22	
1604.00	0.320	79.330	1603.89	4.53	-2.92	4.46	1739380.32	14557993.30	40°05'7.0963"N	80°38'46.2567"W	0.24	
1696.00	0.140	128.950	1695.89	4.70	-2.95	4.80	1739380.66	14557993.27	40°05'7.0961"N	80°38'46.2523"W	0.27	



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Actual Wellpath Report

Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 3 of 10



REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Timmy Minch OHI 10H
Field	Ohio VW		API	47069003360000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 10H AWB
Slot	10H			

WELLPATH DATA (235 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
1786.00	0.030	66.040	1785.89	4.80	-3.01	4.90	1739380.76	14557993.21	40°05'7.0955"N	80°38'46.2509"W	0.14	
1852.00	0.230	331.310	1851.89	4.66	-2.88	4.86	1739380.71	14557993.34	40°05'7.0967"N	80°38'46.2515"W	0.36	
1988.00	0.430	328.450	1987.89	3.88	-2.21	4.46	1739380.32	14557994.01	40°05'7.1034"N	80°38'46.2566"W	0.15	3 Tally MWD 1988' - 5075'
2078.00	1.500	298.370	2077.87	2.60	-1.36	3.25	1739379.10	14557994.86	40°05'7.1118"N	80°38'46.2722"W	1.28	
2168.00	3.160	293.130	2167.79	-0.19	0.17	-0.07	1739375.79	14557996.39	40°05'7.1271"N	80°38'46.3148"W	1.86	
2258.00	3.910	291.060	2257.62	-4.24	2.25	-5.22	1739370.64	14557998.47	40°05'7.1478"N	80°38'46.3809"W	0.85	
2349.00	5.080	294.970	2348.34	-9.56	5.06	-11.77	1739364.10	14558001.28	40°05'7.1759"N	80°38'46.4650"W	1.33	
2439.00	7.370	292.560	2437.81	-16.86	8.96	-20.71	1739355.16	14558005.18	40°05'7.2148"N	80°38'46.5799"W	2.56	
2532.00	10.470	288.840	2529.67	-27.11	13.98	-34.22	1739341.65	14558010.19	40°05'7.2649"N	80°38'46.7534"W	3.39	
2622.00	11.620	286.950	2618.00	-38.83	19.26	-50.63	1739325.25	14558015.48	40°05'7.3178"N	80°38'46.9643"W	1.34	
2713.00	10.810	286.310	2707.26	-50.58	24.33	-67.59	1739308.30	14558020.54	40°05'7.3685"N	80°38'47.1822"W	0.90	
2804.00	10.330	290.820	2796.72	-62.06	29.63	-83.40	1739292.49	14558025.84	40°05'7.4215"N	80°38'47.3654"W	1.05	
2895.00	10.500	296.230	2886.22	-74.36	36.19	-98.47	1739277.43	14558032.40	40°05'7.4870"N	80°38'47.5789"W	1.09	
2985.00	11.730	305.130	2974.54	-88.69	45.08	-113.31	1739262.60	14558041.29	40°05'7.5754"N	80°38'47.7693"W	2.34	
3076.00	12.410	312.580	3063.53	-105.74	57.02	-128.07	1739247.84	14558053.22	40°05'7.6940"N	80°38'47.9587"W	1.87	
3167.00	12.970	312.800	3152.31	-124.23	70.58	-142.77	1739233.15	14558066.77	40°05'7.8285"N	80°38'48.1470"W	0.62	
3257.00	11.660	308.550	3240.24	-141.72	83.11	-157.29	1739218.63	14558079.30	40°05'7.9529"N	80°38'48.3333"W	1.77	
3348.00	11.880	305.490	3329.33	-158.10	94.28	-172.11	1739203.82	14558090.46	40°05'8.0638"N	80°38'48.5233"W	0.73	
3438.00	10.970	307.940	3417.54	-173.78	104.92	-186.41	1739189.53	14558101.10	40°05'8.1696"N	80°38'48.7067"W	1.15	
3532.00	10.980	306.370	3509.82	-189.60	115.73	-200.67	1739175.27	14558111.90	40°05'8.2769"N	80°38'48.8897"W	0.32	
3622.00	11.100	304.490	3598.16	-204.58	125.72	-214.71	1739161.23	14558121.89	40°05'8.3762"N	80°38'49.0698"W	0.42	
3713.00	10.260	308.830	3687.58	-219.40	135.76	-228.24	1739147.71	14558131.93	40°05'8.4760"N	80°38'49.2434"W	1.28	
3804.00	10.490	314.220	3777.10	-234.41	146.62	-240.49	1739135.46	14558142.78	40°05'8.5838"N	80°38'49.4005"W	1.10	
3894.00	10.390	313.790	3865.61	-249.63	157.95	-252.22	1739123.74	14558154.11	40°05'8.6962"N	80°38'49.5508"W	0.14	
3985.00	11.090	313.420	3955.01	-265.42	169.64	-264.50	1739111.46	14558165.80	40°05'8.8122"N	80°38'49.7082"W	0.77	
4076.00	11.880	313.130	4044.19	-282.24	182.06	-277.70	1739098.27	14558178.21	40°05'8.9355"N	80°38'49.8773"W	0.87	
4166.00	11.760	311.060	4132.28	-299.22	194.42	-291.37	1739084.60	14558190.56	40°05'9.0581"N	80°38'50.0526"W	0.49	
4257.00	12.330	311.200	4221.28	-316.58	206.91	-305.68	1739070.30	14558203.05	40°05'9.1821"N	80°38'50.2360"W	0.63	
4347.00	12.020	314.280	4309.25	-334.13	219.78	-319.62	1739056.37	14558215.92	40°05'9.3099"N	80°38'50.4147"W	0.80	
4438.00	11.640	312.980	4398.32	-351.50	232.66	-333.12	1739042.87	14558228.79	40°05'9.4376"N	80°38'50.5877"W	0.51	



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Page 4 of 10



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REFERENCE WELLPATH IDENTIFICATION				
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Field	Ohio VW		API	47069003360000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 10H AWB
Slot	10H			

WELLPATH DATA (235 stations)												
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4531.00	11.280	310.340	4489.47	-368.46	244.94	-346.91	1739029.08	14558241.07	40°05'9.5596"N	80°38'50.7646"W	0.68	
4622.00	11.620	308.790	4578.66	-384.76	256.44	-360.84	1739015.16	14558252.56	40°05'9.6738"N	80°38'50.9432"W	0.50	
4712.00	12.080	311.660	4666.74	-401.54	268.38	-374.94	1739001.07	14558264.50	40°05'9.7923"N	80°38'51.1240"W	0.83	
4803.00	12.180	310.660	4755.71	-419.02	280.97	-389.34	1738986.67	14558277.08	40°05'9.9172"N	80°38'51.3086"W	0.26	
4894.00	12.620	312.900	4844.59	-436.97	293.99	-403.90	1738972.12	14558290.09	40°05'10.0465"N	80°38'51.4953"W	0.72	
4984.00	12.700	318.350	4932.40	-455.56	308.07	-417.68	1738958.34	14558304.17	40°05'10.1862"N	80°38'51.6719"W	1.33	
5075.00	12.640	317.770	5021.18	-474.64	322.92	-431.02	1738945.01	14558319.01	40°05'10.3335"N	80°38'51.8427"W	0.15	
5171.00	9.370	308.060	5115.41	-491.65	335.52	-444.24	1738931.80	14558331.61	40°05'10.4585"N	80°38'52.0121"W	3.90	4 BH MWD 5171' - 20189'
5262.00	9.290	306.710	5205.21	-504.71	344.48	-455.96	1738920.08	14558340.56	40°05'10.5475"N	80°38'52.1625"W	0.26	
5352.00	1.550	260.870	5294.76	-511.45	348.63	-463.00	1738913.05	14558344.72	40°05'10.5888"N	80°38'52.2528"W	9.20	
5443.00	4.750	192.570	5385.63	-508.80	344.76	-465.03	1738911.01	14558340.85	40°05'10.5506"N	80°38'52.2792"W	4.85	
5533.00	9.440	178.950	5474.92	-499.09	333.74	-465.71	1738910.33	14558329.83	40°05'10.4417"N	80°38'52.2885"W	5.50	
5624.00	15.190	173.230	5563.80	-480.92	314.42	-464.16	1738911.88	14558310.52	40°05'10.2507"N	80°38'52.2696"W	6.45	
5715.00	22.160	170.030	5649.95	-452.98	285.64	-459.78	1738916.26	14558281.75	40°05'9.9662"N	80°38'52.2147"W	7.74	
5805.00	27.700	165.240	5731.54	-415.97	248.66	-451.51	1738924.53	14558244.79	40°05'9.6004"N	80°38'52.1101"W	6.55	
5896.00	33.000	165.140	5810.05	-370.72	204.23	-439.75	1738936.28	14558200.37	40°05'9.1609"N	80°38'51.9612"W	5.82	
5987.00	39.710	160.520	5883.30	-317.32	152.80	-423.68	1738952.34	14558148.96	40°05'8.6520"N	80°38'51.7570"W	7.96	
6077.00	45.970	159.770	5949.27	-256.39	95.28	-402.89	1738973.13	14558091.46	40°05'8.0828"N	80°38'51.4924"W	6.98	
6168.00	55.680	159.930	6006.68	-186.18	29.13	-378.62	1738997.39	14558025.34	40°05'7.4281"N	80°38'51.1836"W	10.67	
6259.00	65.230	157.340	6051.51	-107.27	-44.47	-349.74	1739026.26	14557951.77	40°05'6.6997"N	80°38'50.8157"W	10.78	
6349.00	75.510	156.970	6081.70	-22.67	-122.48	-316.86	1739059.12	14557873.78	40°05'5.9275"N	80°38'50.3968"W	11.43	
6440.00	85.100	156.830	6097.01	66.88	-204.89	-281.71	1739094.26	14557791.41	40°05'5.1117"N	80°38'49.9487"W	10.54	
6530.00	88.770	156.640	6101.82	156.70	-287.44	-246.22	1739129.74	14557708.89	40°05'4.2945"N	80°38'49.4963"W	4.08	
6621.00	88.430	158.190	6104.04	247.59	-371.44	-211.28	1739164.66	14557624.93	40°05'3.4631"N	80°38'49.0511"W	1.74	
6712.00	89.010	158.090	6106.08	338.43	-455.87	-177.41	1739198.52	14557540.53	40°05'2.6274"N	80°38'48.6196"W	0.65	
6803.00	87.540	156.610	6108.82	429.31	-539.81	-142.38	1739233.53	14557456.62	40°05'1.7965"N	80°38'48.1733"W	2.29	
6893.00	87.540	155.970	6112.68	519.21	-622.14	-106.22	1739269.68	14557374.32	40°05'0.9816"N	80°38'47.7123"W	0.71	
6984.00	88.030	156.140	6116.20	610.12	-705.24	-69.32	1739306.57	14557291.25	40°05'0.1588"N	80°38'47.2418"W	0.57	
7075.00	88.740	157.010	6118.76	701.05	-788.71	-33.16	1739342.72	14557207.82	40°04'59.3326"N	80°38'46.7808"W	1.23	
7165.00	88.090	156.790	6121.25	790.97	-871.46	2.14	1739378.00	14557125.10	40°04'58.5135"N	80°38'46.3309"W	0.76	

Actual Wellpath Report
Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 5 of 10



REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Timmy Minch OHI 10H
Field	Ohio VW		API	47069003360000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 10H AWB
Slot	10H			

WELLPATH DATA (235 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7256.00	87.970	156.370	6124.38	881.89	-954.92	38.29	1739414.13	14557041.68	40°04'57.6873"N	80°38'45.8702"W	0.48	
7347.00	88.710	156.590	6127.01	972.82	-1038.32	74.59	1739450.42	14556958.31	40°04'56.8617"N	80°38'45.4074"W	0.85	
7437.00	88.620	156.620	6129.11	1062.76	-1120.90	110.31	1739486.13	14556875.76	40°04'56.0443"N	80°38'44.9520"W	0.11	
7527.00	89.110	156.990	6130.89	1152.70	-1203.61	145.75	1739521.56	14556793.08	40°04'55.2255"N	80°38'44.5003"W	0.68	
7618.00	88.650	156.420	6132.67	1243.64	-1287.17	181.73	1739557.52	14556709.55	40°04'54.3983"N	80°38'44.0417"W	0.80	
7710.00	88.770	156.520	6134.74	1335.59	-1371.50	218.45	1739594.23	14556625.26	40°04'53.5635"N	80°38'43.5737"W	0.17	
7802.00	89.110	156.660	6136.45	1427.54	-1455.91	255.00	1739630.76	14556540.88	40°04'52.7279"N	80°38'43.1078"W	0.40	
7892.00	89.140	156.530	6137.82	1517.50	-1538.50	290.75	1739666.49	14556458.32	40°04'51.9104"N	80°38'42.6522"W	0.15	
7982.00	88.860	156.180	6139.39	1607.46	-1620.93	326.84	1739702.57	14556375.92	40°04'51.0944"N	80°38'42.1921"W	0.50	
8072.00	88.890	156.260	6141.16	1697.42	-1703.27	363.12	1739738.84	14556293.61	40°04'50.2792"N	80°38'41.7296"W	0.09	
8163.00	89.420	156.470	6142.50	1788.39	-1786.63	399.60	1739775.30	14556210.29	40°04'49.4540"N	80°38'41.2646"W	0.63	
8253.00	89.380	156.400	6143.44	1878.36	-1869.12	435.58	1739811.27	14556127.83	40°04'48.6374"N	80°38'40.8060"W	0.09	
8344.00	89.260	156.680	6144.52	1969.32	-1952.59	471.80	1739847.48	14556044.39	40°04'47.8111"N	80°38'40.3442"W	0.33	
8435.00	89.200	156.250	6145.75	2060.28	-2036.01	508.14	1739883.80	14555961.00	40°04'46.9853"N	80°38'39.8811"W	0.48	
8525.00	89.140	156.450	6147.05	2150.25	-2118.45	544.24	1739919.88	14555878.60	40°04'46.1693"N	80°38'39.4209"W	0.23	
8616.00	89.260	156.510	6148.32	2241.21	-2201.88	580.55	1739956.18	14555795.20	40°04'45.3434"N	80°38'38.9581"W	0.15	
8707.00	89.260	156.150	6149.49	2332.18	-2285.22	617.08	1739992.70	14555711.90	40°04'44.5184"N	80°38'38.4924"W	0.40	
8797.00	89.320	156.360	6150.61	2422.15	-2367.59	653.32	1740028.92	14555629.55	40°04'43.7029"N	80°38'38.0305"W	0.24	
8889.00	89.110	156.360	6151.87	2514.12	-2451.86	690.20	1740065.79	14555545.32	40°04'42.8686"N	80°38'37.5603"W	0.23	
8980.00	89.230	156.170	6153.19	2605.09	-2535.16	726.83	1740102.40	14555462.05	40°04'42.0441"N	80°38'37.0935"W	0.25	
9070.00	89.170	155.970	6154.45	2695.07	-2617.41	763.33	1740138.89	14555379.83	40°04'41.2298"N	80°38'36.6281"W	0.23	
9161.00	89.110	156.440	6155.81	2786.04	-2700.67	800.04	1740175.59	14555296.61	40°04'40.4056"N	80°38'36.1602"W	0.52	
9252.00	89.110	156.090	6157.22	2877.01	-2783.96	836.66	1740212.20	14555213.35	40°04'39.5810"N	80°38'35.6933"W	0.38	
9342.00	89.110	156.160	6158.62	2966.98	-2866.25	873.09	1740248.61	14555131.09	40°04'38.7664"N	80°38'35.2290"W	0.08	
9433.00	89.110	156.330	6160.04	3057.95	-2949.53	909.74	1740285.24	14555047.84	40°04'37.9420"N	80°38'34.7618"W	0.19	
9524.00	89.200	156.180	6161.38	3148.92	-3032.82	946.38	1740321.87	14554964.59	40°04'37.1175"N	80°38'34.2948"W	0.19	
9614.00	89.140	156.410	6162.68	3238.89	-3115.21	982.56	1740358.03	14554882.22	40°04'36.3018"N	80°38'33.8336"W	0.26	
9704.00	89.170	156.510	6164.01	3328.85	-3197.72	1018.50	1740393.96	14554799.75	40°04'35.4850"N	80°38'33.3756"W	0.12	
9795.00	89.140	157.350	6165.35	3419.79	-3281.43	1054.15	1740429.60	14554716.07	40°04'34.6564"N	80°38'32.9212"W	0.92	
9886.00	89.140	156.930	6166.72	3510.72	-3365.27	1089.50	1740464.93	14554632.26	40°04'33.8264"N	80°38'32.4709"W	0.46	



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Actual Wellpath Report

Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 6 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 10H
Field	Ohio VW	API	47069003360000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 10H AWB
Slot	10H		

WELLPATH DATA (235 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9977.00	89.110	157.030	6168.11	3601.65	-3449.01	1125.08	1740500.50	14554548.55	40°04'32.9974"N	80°38'32.0175"W	0.11	
10068.00	89.230	157.110	6169.42	3692.59	-3532.82	1160.53	1740535.94	14554464.79	40°04'32.1679"N	80°38'31.5658"W	0.16	
10158.00	89.140	156.950	6170.70	3782.52	-3615.67	1195.65	1740571.04	14554381.96	40°04'31.3477"N	80°38'31.1183"W	0.20	
10249.00	89.200	157.120	6172.02	3873.46	-3699.45	1231.15	1740606.53	14554298.22	40°04'30.5184"N	80°38'30.6660"W	0.20	
10339.00	89.260	157.020	6173.23	3963.39	-3782.33	1266.21	1740641.58	14554215.37	40°04'29.6980"N	80°38'30.2192"W	0.13	
10430.00	89.110	157.280	6174.53	4054.32	-3866.18	1301.55	1740676.90	14554131.55	40°04'28.8679"N	80°38'29.7691"W	0.33	
10521.00	89.170	156.920	6175.89	4145.25	-3950.00	1336.95	1740712.29	14554047.76	40°04'28.0382"N	80°38'29.3180"W	0.40	
10611.00	89.050	156.700	6177.29	4235.20	-4032.72	1372.39	1740747.71	14553965.08	40°04'27.2194"N	80°38'28.8664"W	0.28	
10702.00	89.110	157.310	6178.75	4326.13	-4116.48	1407.93	1740783.24	14553881.35	40°04'26.3903"N	80°38'28.4135"W	0.67	
10793.00	89.350	157.510	6179.97	4417.05	-4200.49	1442.89	1740818.18	14553797.38	40°04'25.5587"N	80°38'27.9683"W	0.34	
10884.00	89.350	157.380	6181.01	4507.96	-4284.52	1477.79	1740853.07	14553713.37	40°04'24.7269"N	80°38'27.5237"W	0.14	
10974.00	89.260	156.850	6182.10	4597.90	-4367.43	1512.79	1740888.06	14553630.50	40°04'23.9061"N	80°38'27.0778"W	0.60	
11065.00	88.680	157.260	6183.73	4688.83	-4451.22	1548.26	1740923.51	14553546.74	40°04'23.0767"N	80°38'26.6259"W	0.78	
11156.00	88.770	157.130	6185.76	4779.74	-4535.08	1583.52	1740958.76	14553462.91	40°04'22.2466"N	80°38'26.1767"W	0.17	
11246.00	88.950	157.160	6187.55	4869.66	-4618.00	1618.47	1740993.70	14553380.03	40°04'21.4258"N	80°38'25.7314"W	0.20	
11337.00	88.890	157.460	6189.27	4960.57	-4701.94	1653.57	1741028.78	14553296.12	40°04'20.5948"N	80°38'25.2843"W	0.34	
11427.00	88.920	157.070	6190.99	5050.49	-4784.93	1688.34	1741063.54	14553213.16	40°04'19.7733"N	80°38'24.8413"W	0.43	
11518.00	88.860	157.110	6192.75	5141.41	-4868.74	1723.76	1741098.95	14553129.38	40°04'18.9437"N	80°38'24.3901"W	0.08	
11608.00	88.950	157.320	6194.47	5231.33	-4951.70	1758.61	1741133.78	14553046.46	40°04'18.1225"N	80°38'23.9461"W	0.25	
11699.00	89.110	156.470	6196.01	5322.27	-5035.39	1794.31	1741169.47	14552962.80	40°04'17.2941"N	80°38'23.4912"W	0.95	
11791.00	88.890	157.210	6197.61	5414.21	-5119.96	1830.49	1741205.63	14552878.26	40°04'16.4569"N	80°38'23.0303"W	0.84	
11882.00	88.860	156.940	6199.40	5505.13	-5203.76	1865.93	1741241.06	14552794.50	40°04'15.6274"N	80°38'22.5788"W	0.30	
11972.00	88.770	156.950	6201.26	5595.07	-5286.55	1901.17	1741276.28	14552711.74	40°04'14.8078"N	80°38'22.1298"W	0.10	
12063.00	88.950	157.130	6203.07	5685.99	-5370.32	1936.66	1741311.76	14552627.99	40°04'13.9785"N	80°38'21.6777"W	0.28	
12154.00	88.830	157.060	6204.84	5776.92	-5454.13	1972.07	1741347.16	14552544.22	40°04'13.1488"N	80°38'21.2266"W	0.15	
12244.00	88.980	157.190	6206.56	5866.84	-5537.04	2007.05	1741382.12	14552461.34	40°04'12.3282"N	80°38'20.7810"W	0.22	
12336.00	88.800	156.990	6208.34	5958.77	-5621.70	2043.00	1741418.07	14552376.71	40°04'11.4900"N	80°38'20.3229"W	0.48	
12427.00	88.890	156.980	6210.17	6049.70	-5705.38	2078.72	1741453.77	14552293.07	40°04'10.6617"N	80°38'19.8679"W	0.23	
12518.00	89.050	157.340	6211.81	6140.63	-5789.23	2114.04	1741489.07	14552209.25	40°04'9.8317"N	80°38'19.4180"W	0.43	
12608.00	88.740	156.670	6213.54	6230.56	-5872.07	2149.19	1741524.21	14552126.45	40°04'9.0117"N	80°38'18.9702"W	0.82	



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Actual Wellpath Report

Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 7 of 10



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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 10H
Field	Ohio VW	API	47069003360000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 10H AWB
Slot	10H		

WELLPATH DATA (235 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12699.00	89.380	157.510	6215.04	6321.48	-5955.87	2184.61	1741559.62	14552042.67	40°04'8.1821"N	80°38'18.5190"W	1.16	
12789.00	89.200	157.380	6216.15	6411.40	-6038.98	2219.13	1741594.12	14551959.60	40°04'7.3594"N	80°38'18.0793"W	0.25	
12880.00	89.080	156.460	6217.52	6502.34	-6122.69	2254.80	1741629.78	14551875.92	40°04'6.5307"N	80°38'17.6249"W	1.02	
12971.00	88.650	157.220	6219.32	6593.27	-6206.34	2290.58	1741665.54	14551792.31	40°04'5.7027"N	80°38'17.1690"W	0.96	
13062.00	89.170	157.510	6221.05	6684.18	-6290.31	2325.60	1741700.55	14551708.36	40°04'4.8714"N	80°38'16.7230"W	0.65	
13152.00	89.260	156.910	6222.28	6774.11	-6373.28	2360.45	1741735.39	14551625.43	40°04'4.0501"N	80°38'16.2790"W	0.67	
13243.00	89.940	159.530	6222.92	6864.96	-6457.77	2394.21	1741769.14	14551540.97	40°04'3.2138"N	80°38'15.8492"W	2.97	
13333.00	88.920	157.410	6223.81	6954.79	-6541.48	2427.24	1741802.15	14551457.29	40°04'2.3852"N	80°38'15.4288"W	2.61	
13424.00	89.080	157.350	6225.40	7045.70	-6625.47	2462.23	1741837.13	14551373.34	40°04'1.5539"N	80°38'14.9831"W	0.19	
13515.00	88.920	157.820	6226.99	7136.59	-6709.58	2496.93	1741871.81	14551289.26	40°04'0.7213"N	80°38'14.5413"W	0.55	
13605.00	89.080	156.870	6228.56	7226.51	-6792.63	2531.59	1741906.46	14551206.25	40°03'59.8992"N	80°38'14.0998"W	1.07	
13696.00	89.170	157.460	6229.95	7317.43	-6876.48	2566.90	1741941.76	14551122.42	40°03'59.0691"N	80°38'13.6500"W	0.66	
13787.00	89.230	156.700	6231.22	7408.36	-6960.29	2602.34	1741977.18	14551038.65	40°03'58.2395"N	80°38'13.1986"W	0.84	
13877.00	89.170	156.720	6232.48	7498.32	-7042.95	2637.92	1742012.75	14550956.02	40°03'57.4212"N	80°38'12.7453"W	0.07	
13968.00	89.050	156.830	6233.89	7589.26	-7126.56	2673.80	1742048.61	14550872.44	40°03'56.5935"N	80°38'12.2882"W	0.18	
14059.00	89.080	156.900	6235.38	7680.21	-7210.23	2709.55	1742084.35	14550788.80	40°03'55.7652"N	80°38'11.8328"W	0.08	
14149.00	88.980	156.540	6236.90	7770.15	-7292.89	2745.11	1742119.90	14550706.18	40°03'54.9469"N	80°38'11.3797"W	0.42	
14240.00	89.110	156.920	6238.42	7861.10	-7376.48	2781.06	1742155.83	14550622.62	40°03'54.1195"N	80°38'10.9218"W	0.44	
14330.00	89.080	156.920	6239.84	7951.04	-7459.27	2816.33	1742191.09	14550539.87	40°03'53.2999"N	80°38'10.4724"W	0.03	
14421.00	88.920	156.930	6241.43	8041.98	-7542.97	2852.00	1742226.74	14550456.19	40°03'52.4713"N	80°38'10.0182"W	0.18	
14511.00	89.080	157.080	6243.00	8131.91	-7625.81	2887.15	1742261.88	14550373.39	40°03'51.6513"N	80°38'9.5704"W	0.24	
14602.00	89.080	156.630	6244.46	8222.86	-7709.47	2922.91	1742297.63	14550289.76	40°03'50.8230"N	80°38'9.1148"W	0.49	
14693.00	89.080	156.280	6245.92	8313.82	-7792.89	2959.26	1742333.96	14550206.38	40°03'49.9973"N	80°38'8.6517"W	0.38	
14783.00	89.140	156.900	6247.32	8403.77	-7875.47	2995.01	1742369.70	14550123.83	40°03'49.1798"N	80°38'8.1962"W	0.69	
14874.00	89.140	157.150	6248.68	8494.71	-7959.24	3030.53	1742405.20	14550040.09	40°03'48.3505"N	80°38'7.7439"W	0.27	
14964.00	89.260	157.060	6249.94	8584.64	-8042.14	3065.54	1742440.20	14549957.22	40°03'47.5298"N	80°38'7.2980"W	0.17	
15055.00	89.110	157.200	6251.24	8675.57	-8125.98	3100.90	1742475.55	14549873.42	40°03'46.6999"N	80°38'6.8476"W	0.23	
15147.00	89.170	157.250	6252.62	8767.49	-8210.80	3136.51	1742511.15	14549788.63	40°03'45.8603"N	80°38'6.3940"W	0.08	
15237.00	89.940	158.770	6253.31	8857.37	-8294.24	3170.21	1742544.83	14549705.22	40°03'45.0343"N	80°38'5.9650"W	1.89	
15328.00	89.380	156.290	6253.86	8948.27	-8378.33	3204.99	1742579.59	14549621.17	40°03'44.2019"N	80°38'5.5222"W	2.79	



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Page 8 of 10



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Slot	10H		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
15419.00	89.290	156.680	6254.91	9039.24	-8461.76	3241.29	1742615.89	14549537.76	40°03'43.3759"N	80°38'5.0597"W	0.44	
15509.00	89.450	155.160	6255.90	9129.22	-8543.92	3278.01	1742652.59	14549455.63	40°03'42.5625"N	80°38'4.5918"W	1.70	
15600.00	89.380	152.730	6256.83	9220.19	-8625.67	3317.97	1742692.54	14549373.93	40°03'41.7531"N	80°38'4.0821"W	2.67	
15690.00	89.200	150.550	6257.95	9310.02	-8704.85	3360.72	1742735.27	14549294.77	40°03'40.9688"N	80°38'3.5365"W	2.43	
15782.00	89.320	150.650	6259.13	9401.73	-8785.00	3405.88	1742780.41	14549214.66	40°03'40.1750"N	80°38'2.9600"W	0.17	
15873.00	89.420	150.680	6260.13	9492.46	-8864.32	3450.46	1742824.97	14549135.36	40°03'39.3893"N	80°38'2.3908"W	0.11	
15963.00	89.780	151.540	6260.76	9582.25	-8943.12	3493.94	1742868.43	14549056.59	40°03'38.6088"N	80°38'1.8358"W	1.04	
16055.00	89.630	151.660	6261.24	9674.08	-9024.05	3537.70	1742912.17	14548975.70	40°03'37.8073"N	80°38'1.2773"W	0.21	
16145.00	90.180	151.580	6261.39	9763.92	-9103.23	3580.47	1742954.93	14548896.55	40°03'37.0231"N	80°38'0.7314"W	0.62	
16236.00	89.780	150.930	6261.42	9854.72	-9183.02	3624.24	1742998.68	14548816.79	40°03'36.2329"N	80°38'0.1728"W	0.84	
16326.00	89.600	150.610	6261.90	9944.47	-9261.55	3668.18	1743042.61	14548738.28	40°03'35.4549"N	80°37'59.6117"W	0.41	
16418.00	89.750	151.410	6262.43	10036.24	-9342.03	3712.77	1743087.18	14548657.85	40°03'34.6579"N	80°37'59.0426"W	0.88	
16509.00	89.780	150.790	6262.80	10127.02	-9421.69	3756.75	1743131.14	14548578.21	40°03'33.8688"N	80°37'58.4812"W	0.68	
16600.00	89.970	151.230	6263.00	10217.80	-9501.29	3800.85	1743175.23	14548498.64	40°03'33.0805"N	80°37'57.9182"W	0.53	
16691.00	89.940	150.780	6263.07	10308.57	-9580.88	3844.96	1743219.32	14548419.08	40°03'32.2921"N	80°37'57.3551"W	0.50	
16782.00	89.820	150.870	6263.26	10399.33	-9660.34	3889.32	1743263.66	14548339.66	40°03'31.5051"N	80°37'56.7889"W	0.16	
16873.00	89.780	151.230	6263.58	10490.10	-9739.97	3933.37	1743307.70	14548260.06	40°03'30.7164"N	80°37'56.2266"W	0.40	
16963.00	89.850	150.860	6263.87	10579.89	-9818.72	3976.94	1743351.25	14548181.34	40°03'29.9364"N	80°37'55.6705"W	0.42	
17054.00	89.820	150.980	6264.13	10670.65	-9898.24	4021.17	1743395.46	14548101.84	40°03'29.1487"N	80°37'55.1059"W	0.14	
17146.00	89.820	150.900	6264.42	10762.41	-9978.66	4065.86	1743440.13	14548021.46	40°03'28.3522"N	80°37'54.5355"W	0.09	
17238.00	89.820	150.810	6264.71	10854.17	-10059.01	4110.66	1743484.92	14547941.14	40°03'27.5563"N	80°37'53.9635"W	0.10	
17328.00	89.690	150.970	6265.09	10943.93	-10137.64	4154.45	1743528.68	14547862.54	40°03'26.7775"N	80°37'53.4046"W	0.23	
17419.00	89.820	150.610	6265.48	11034.68	-10217.07	4198.86	1743573.08	14547783.14	40°03'25.9907"N	80°37'52.8378"W	0.42	
17509.00	89.850	150.700	6265.74	11124.42	-10295.52	4242.96	1743617.16	14547704.72	40°03'25.2137"N	80°37'52.2747"W	0.11	
17601.00	89.720	150.500	6266.09	11216.14	-10375.67	4288.12	1743662.31	14547624.60	40°03'24.4198"N	80°37'51.6982"W	0.26	
17692.00	89.850	150.730	6266.43	11306.87	-10454.97	4332.78	1743706.94	14547545.34	40°03'23.6344"N	80°37'51.1282"W	0.29	
17782.00	89.880	150.330	6266.64	11396.59	-10533.32	4377.05	1743751.20	14547467.02	40°03'22.8582"N	80°37'50.5630"W	0.45	
17873.00	89.820	150.890	6266.88	11487.32	-10612.61	4421.71	1743795.84	14547387.76	40°03'22.0729"N	80°37'49.9929"W	0.62	
17963.00	89.750	150.940	6267.22	11577.08	-10691.26	4465.46	1743839.58	14547309.14	40°03'21.2938"N	80°37'49.4345"W	0.10	
18054.00	89.780	150.840	6267.59	11667.84	-10770.76	4509.73	1743883.83	14547229.67	40°03'20.5063"N	80°37'48.8694"W	0.11	



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Actual Wellpath Report

Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 9 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 10H
Field	Ohio VW	API	47069003360000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 10H AWB
Slot	10H		

WELLPATH DATA (235 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	DLS ["/100ft]	Comments
18145.00	89.780	151.940	6267.94	11758.66	-10850.65	4553.30	1743927.38	14547149.81	40°03'19.7151"N	80°37'48.3133"W	1.21	
18236.00	89.970	151.840	6268.14	11849.52	-10930.92	4596.18	1743970.24	14547069.58	40°03'18.9201"N	80°37'47.7662"W	0.24	
18327.00	89.910	151.890	6268.23	11940.38	-11011.16	4639.09	1744013.14	14546989.36	40°03'18.1254"N	80°37'47.2187"W	0.09	
18419.00	89.750	151.580	6268.51	12032.23	-11092.19	4682.66	1744056.69	14546908.36	40°03'17.3228"N	80°37'46.6628"W	0.38	
18512.00	89.970	151.950	6268.73	12125.07	-11174.13	4726.65	1744100.67	14546826.46	40°03'16.5113"N	80°37'46.1014"W	0.46	
18602.00	89.780	151.930	6268.93	12214.94	-11253.55	4768.99	1744142.99	14546747.07	40°03'15.7248"N	80°37'45.5612"W	0.21	
18694.00	90.000	151.620	6269.11	12306.79	-11334.61	4812.50	1744186.48	14546666.04	40°03'14.9219"N	80°37'45.0060"W	0.41	
18784.00	89.850	151.960	6269.22	12396.65	-11413.92	4855.04	1744229.01	14546586.76	40°03'14.1364"N	80°37'44.4632"W	0.41	
18875.00	89.850	151.930	6269.46	12487.51	-11494.23	4897.84	1744271.79	14546506.49	40°03'13.3410"N	80°37'43.9171"W	0.03	
18965.00	89.940	151.840	6269.63	12577.38	-11573.61	4940.25	1744314.18	14546427.14	40°03'12.5548"N	80°37'43.3760"W	0.14	
19057.00	89.880	151.970	6269.77	12669.24	-11654.77	4983.58	1744357.49	14546346.01	40°03'11.7510"N	80°37'42.8232"W	0.16	
19147.00	89.820	151.980	6270.01	12759.11	-11734.21	5025.87	1744399.76	14546266.59	40°03'10.9642"N	80°37'42.2836"W	0.07	
19237.00	90.060	151.700	6270.10	12848.97	-11813.56	5068.34	1744442.22	14546187.28	40°03'10.1783"N	80°37'41.7417"W	0.41	
19328.00	89.910	151.870	6270.12	12939.82	-11893.75	5111.36	1744485.23	14546107.12	40°03'9.3841"N	80°37'41.1928"W	0.25	
19418.00	89.780	151.850	6270.37	13029.68	-11973.11	5153.81	1744527.66	14546027.79	40°03'8.5981"N	80°37'40.6512"W	0.15	
19509.00	89.690	151.910	6270.79	13120.54	-12053.37	5196.70	1744570.53	14545947.57	40°03'7.8032"N	80°37'40.1040"W	0.12	
19600.00	89.820	150.560	6271.18	13211.34	-12133.13	5240.49	1744614.30	14545867.83	40°03'7.0131"N	80°37'39.5452"W	1.49	
19691.00	89.750	151.190	6271.52	13302.10	-12212.63	5284.78	1744658.57	14545788.37	40°03'6.2257"N	80°37'38.9799"W	0.70	
19781.00	89.660	151.040	6271.98	13391.89	-12291.43	5328.25	1744702.03	14545709.60	40°03'5.4452"N	80°37'38.4251"W	0.19	
19872.00	89.880	150.930	6272.35	13482.66	-12371.01	5372.39	1744746.15	14545630.05	40°03'4.6570"N	80°37'37.8618"W	0.27	
19963.00	89.910	150.760	6272.52	13573.41	-12450.48	5416.73	1744790.47	14545550.61	40°03'3.8698"N	80°37'37.2960"W	0.19	
20053.00	89.780	150.970	6272.76	13663.17	-12529.09	5460.54	1744834.27	14545472.03	40°03'3.0911"N	80°37'36.7368"W	0.27	
20144.00	89.750	150.770	6273.13	13753.93	-12608.58	5504.84	1744878.55	14545392.57	40°03'2.3038"N	80°37'36.1714"W	0.22	
20189.00	89.720	151.000	6273.34	13798.81	-12647.89	5526.74	1744900.44	14545353.27	40°03'1.9144"N	80°37'35.8920"W	0.52	
20214.00†	89.720	151.000	6273.46	13823.75	-12669.76	5538.86	1744912.55	14545331.41	40°03'1.6978"N	80°37'35.7373"W	0.00	Proj to TD: 20214'



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Actual Wellpath Report

Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'
Page 10 of 10



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 10H
Field	Ohio VW	API	47069003360000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 10H AWB
Slot	10H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Timmy Minch OHI 10H LP Rev 2	6120.00	-297.03	-249.42	1739126.54	14557699.30	40°05'4.1999"N	80°38'49.5379"W	point
Timmy Minch OHI 10H LP Rev 3	6127.00	-297.03	-249.42	1739126.54	14557699.30	40°05'4.1999"N	80°38'49.5379"W	point
Timmy Minch OHI 10H BHL rev 3	6276.00	-12682.66	5512.05	1744885.75	14545318.52	40°03'1.5714"N	80°37'36.0828"W	point
Timmy Minch OHI 10H WP 1	6276.00	-11015.88	4423.39	1743797.52	14546984.64	40°03'18.0876"N	80°37'49.9929"W	point
Timmy Minch OHI 10H WP 2	6276.00	-8074.00	3088.54	1742463.19	14549925.38	40°03'47.2141"N	80°38'7.0038"W	point
Timmy Minch OHI 10H WP 3	6276.00	-10833.81	4646.81	1744020.85	14547166.64	40°03'19.8776"N	80°37'47.1100"W	point

WELLPATH COMPOSITION - Ref Wellbore: Timmy Minch OHI 10H AWB Ref Wellpath: Timmy Minch OHI 10H awp 50' - 20189' Proj: 20214'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	
26.00	665.00	Gyrodata 2015 - GC+WIR+DPIPE	1 Imported Gyro 50' - 665'	Timmy Minch OHI 10H AWB	6/13/2022	
665.00	1852.00	OWSG MWD rev2 + HRGM	2 Tally MWD 735' - 1852'	Timmy Minch OHI 10H AWB	6/13/2022	
1852.00	5075.00	OWSG MWD rev2 + HRGM	3 Tally MWD 1988' - 5075'	Timmy Minch OHI 10H AWB	6/13/2022	
5075.00	20214.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH MWD 5171' - 20189'	Timmy Minch OHI 10H AWB	6/13/2022	