

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

Slot: 210H  
Well: Timmy Minch OHI 210H  
Wellbore: Timmy Minch OHI 210H AWB

**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
210H	-38.58	52.04	1739382.780	14557984.040	40°05'7.0047"N	80°38'46.2254"W
SDC 40 (RKB) to Ground level (At Slot: 210H)					26ft	
Mean Sea Level to Ground level (At Slot: 210H)					-1208.2ft	
SDC 40 (RKB) to Mean Sea Level					1234.2ft	
Plot reference wellpath is Timmy Minch OHI 210H AWB_ awp 237' - 19832' Proj: 19857'				Grid System: NAD83 / UTM Zone 17 North, US feet		
True vertical depths are referenced to SDC 40 (RKB)				North Reference: Grid north		
Reference wellpath measured depths are referenced to SDC 40 (RKB)				Scale: True distance		
SDC 40 (RKB) to Mean Sea Level: 1234.2 feet				Coordinates are in feet referenced to Slot		
Mean Sea Level to Ground level (At Slot: 210H): -1208.2 feet				Depths are in feet		
Offset wellpath MDs are referenced to each path's default MD datum				Created by: tranlam on 2022-07-14; Database: WA_MPL_EASTERNUS_Defn		

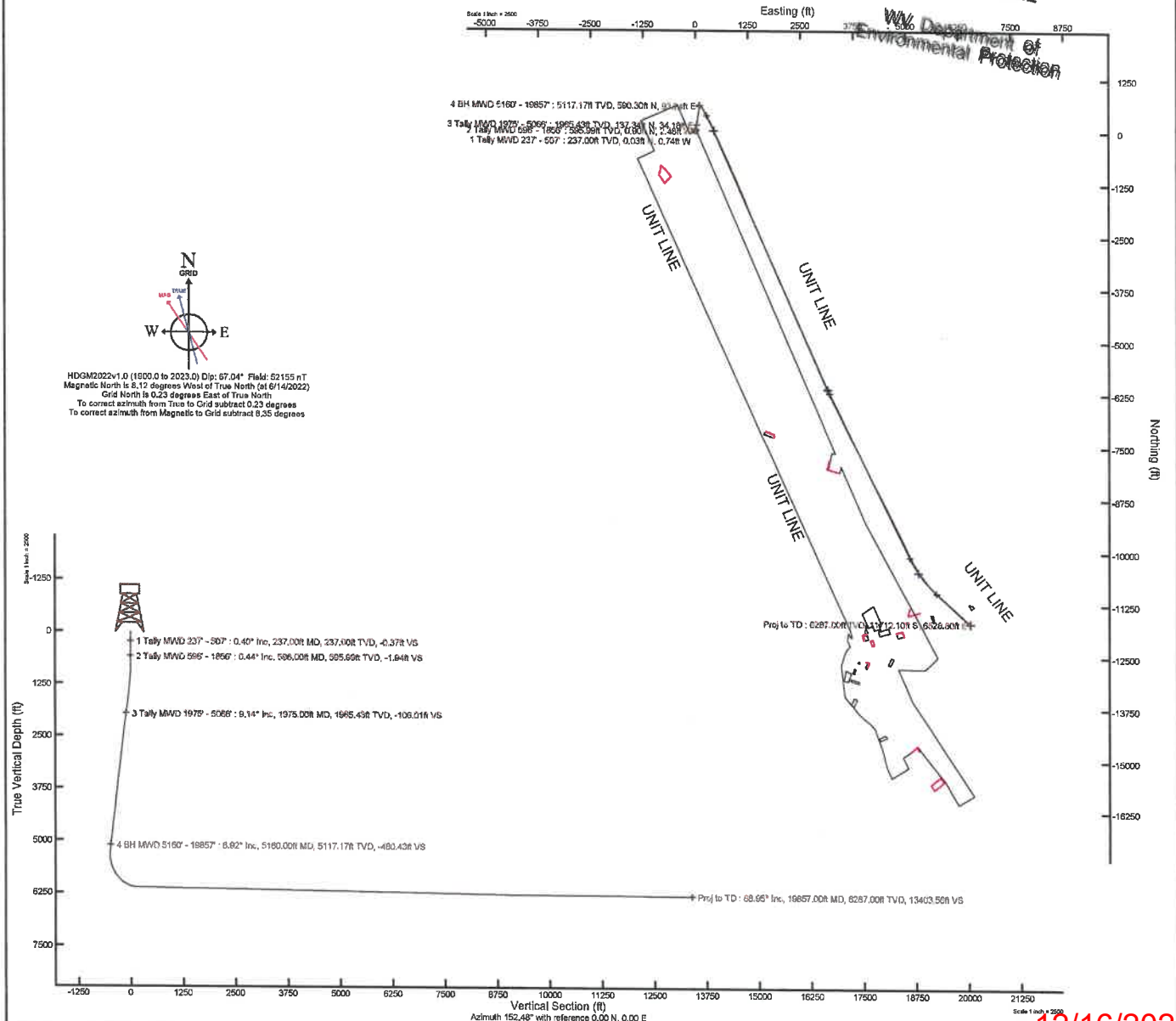
**Bottom Hole Location**

MD (ft)	Inc (")	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
19857.00	88.950	132.660	6287.00	-11712.10	6528.80	1745909.03	14548276.52	40°03'10.9996"N	80°37'22.8672"W

**API: 47069003370000**  
**BH JOB: 111309783**  
**DURATION: 06.27.2022 to 07.02.2022**  
**RIG: SDC 40**

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12/16/2022

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
Slot	210H		

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	7/14/2022 at 11:41:02 AM
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	-38.58	52.04	1739382.78	14557984.04	40°05'7.0047"N	80°38'46.2254"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 (RKB) to Facility Vertical Datum	1234.20ft
Horizontal Reference Pt	Slot	SDC 40 (RKB) to Mean Sea Level	1234.20ft
Vertical Reference Pt	SDC 40 (RKB)	SDC 40 (RKB) to Ground Level at Slot (210H)	26.00ft
MD Reference Pt	SDC 40 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	152.48°

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# Actual Wellpath Report

Timmy Minch OHI 210H AWB\_awp 237' - 19832' Proj: 19857'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
Slot	210H		

WELLPATH DATA (220 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	272.570	0.00	0.00	0.00	0.00	1739382.78	14557984.04	40°05'7.0047"N	80°38'46.2254"W	0.00	
26.00	0.000	272.570	26.00	0.00	0.00	0.00	1739382.78	14557984.04	40°05'7.0047"N	80°38'46.2254"W	0.00	
237.00	0.400	272.570	237.00	-0.37	0.03	-0.74	1739382.04	14557984.07	40°05'7.0051"N	80°38'46.2349"W	0.19	1 Tally MWD 237' - 507'
327.00	0.440	292.350	327.00	-0.79	0.18	-1.37	1739381.41	14557984.22	40°05'7.0066"N	80°38'46.2430"W	0.17	
417.00	0.140	252.770	416.99	-1.07	0.28	-1.79	1739380.99	14557984.32	40°05'7.0075"N	80°38'46.2485"W	0.38	
507.00	0.360	307.360	506.99	-1.35	0.42	-2.12	1739380.66	14557984.46	40°05'7.0089"N	80°38'46.2527"W	0.33	
596.00	0.440	336.970	595.99	-1.94	0.90	-2.48	1739380.30	14557984.94	40°05'7.0137"N	80°38'46.2573"W	0.25	2 Tally MWD 596' - 1856'
687.00	0.720	97.410	686.99	-1.97	1.15	-2.05	1739380.73	14557985.19	40°05'7.0162"N	80°38'46.2517"W	1.12	
777.00	1.770	90.830	776.97	-0.98	1.06	-0.10	1739382.68	14557985.09	40°05'7.0152"N	80°38'46.2266"W	1.18	
868.00	2.520	60.460	867.91	-0.38	2.02	3.05	1739385.83	14557986.06	40°05'7.0246"N	80°38'46.1861"W	1.47	
958.00	4.010	33.970	957.76	-1.96	5.61	6.53	1739389.30	14557989.64	40°05'7.0599"N	80°38'46.1412"W	2.31	
1049.00	5.720	23.090	1048.43	-6.35	12.42	10.08	1739392.86	14557996.45	40°05'7.1271"N	80°38'46.0951"W	2.13	
1140.00	6.700	21.230	1138.90	-12.73	21.54	13.78	1739396.56	14558005.57	40°05'7.2170"N	80°38'46.0470"W	1.10	
1234.00	7.510	21.660	1232.17	-20.36	32.36	18.04	1739400.81	14558016.39	40°05'7.3238"N	80°38'45.9917"W	0.86	
1321.00	7.940	17.780	1318.39	-28.31	43.36	21.97	1739404.74	14558027.39	40°05'7.4324"N	80°38'45.9405"W	0.78	
1412.00	8.110	11.840	1408.50	-37.69	55.63	25.21	1739407.98	14558039.65	40°05'7.5535"N	80°38'45.8983"W	0.93	
1502.00	8.070	9.990	1497.60	-47.61	68.07	27.61	1739410.38	14558052.08	40°05'7.6763"N	80°38'45.8668"W	0.29	
1593.00	8.300	7.980	1587.67	-58.02	80.86	29.63	1739412.39	14558064.87	40°05'7.8027"N	80°38'45.8401"W	0.40	
1684.00	8.420	6.910	1677.71	-68.87	93.98	31.34	1739414.11	14558077.98	40°05'7.9322"N	80°38'45.8174"W	0.22	
1774.00	8.330	6.030	1766.75	-79.73	107.01	32.82	1739415.58	14558091.00	40°05'8.0609"N	80°38'45.7977"W	0.17	
1856.00	8.590	3.650	1847.85	-89.92	119.02	33.83	1739416.60	14558103.02	40°05'8.1796"N	80°38'45.7841"W	0.53	
1975.00	9.140	358.660	1965.43	-106.01	137.34	34.18	1739416.94	14558121.33	40°05'8.3606"N	80°38'45.7787"W	0.79	3 Tally MWD 1975' - 5066'
2066.00	9.110	4.570	2055.28	-118.60	151.75	34.58	1739417.35	14558135.73	40°05'8.5030"N	80°38'45.7728"W	1.03	
2157.00	9.590	9.560	2145.08	-130.75	166.41	36.41	1739419.18	14558150.38	40°05'8.6477"N	80°38'45.7484"W	1.03	
2247.00	9.970	8.170	2233.77	-143.06	181.51	38.77	1739421.53	14558165.48	40°05'8.7969"N	80°38'45.7174"W	0.50	
2338.00	9.130	12.130	2323.51	-155.02	196.37	41.40	1739424.17	14558180.33	40°05'8.9436"N	80°38'45.6827"W	1.17	
2428.00	9.150	13.550	2412.37	-165.91	210.30	44.58	1739427.34	14558194.26	40°05'9.0812"N	80°38'45.6411"W	0.25	
2522.00	8.210	14.680	2505.29	-176.52	224.06	48.03	1739430.79	14558208.02	40°05'9.2171"N	80°38'45.5960"W	1.02	
2612.00	7.570	4.490	2594.44	-186.31	236.19	50.12	1739432.88	14558220.14	40°05'9.3368"N	80°38'45.5685"W	1.71	
2703.00	7.690	359.410	2684.64	-196.82	248.25	50.53	1739433.29	14558232.20	40°05'9.4560"N	80°38'45.5626"W	0.75	

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# Actual Wellpath Report

Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'



REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Timmy Minch OHI 210H
Field	Ohio VW		API	47069003370000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 210H AWB
Slot	210H			

## WELLPATH DATA (220 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
2793.00	7.260	4.010	2773.87	-207.03	259.95	50.87	1739433.63	14558243.89	40°05'9.5716"N	80°38'45.5577"W	0.82	
2884.00	7.370	0.950	2864.13	-217.06	271.52	51.37	1739434.13	14558255.45	40°05'9.6859"N	80°38'45.5507"W	0.44	
2975.00	7.670	7.550	2954.35	-227.17	283.38	52.26	1739435.02	14558267.31	40°05'9.8030"N	80°38'45.5386"W	1.00	
3065.00	7.710	8.290	3043.54	-236.98	295.30	53.92	1739436.68	14558279.23	40°05'9.9208"N	80°38'45.5166"W	0.12	
3156.00	7.760	4.470	3133.71	-247.14	307.47	55.28	1739438.04	14558291.39	40°05'10.0410"N	80°38'45.4985"W	0.57	
3247.00	8.330	10.020	3223.82	-257.58	320.09	56.90	1739439.66	14558304.00	40°05'10.1656"N	80°38'45.4769"W	1.06	
3337.00	8.680	7.760	3312.83	-268.29	333.24	58.96	1739441.71	14558317.15	40°05'10.2955"N	80°38'45.4499"W	0.54	
3428.00	8.640	4.620	3402.79	-279.68	346.85	60.43	1739443.19	14558330.76	40°05'10.4300"N	80°38'45.4302"W	0.52	
3521.00	8.450	11.030	3494.76	-290.94	360.52	62.30	1739445.06	14558344.42	40°05'10.5650"N	80°38'45.4054"W	1.04	
3612.00	8.270	10.030	3584.79	-301.36	373.53	64.72	1739447.48	14558357.42	40°05'10.6934"N	80°38'45.3736"W	0.25	
3703.00	8.330	5.110	3674.84	-312.10	386.54	66.45	1739449.20	14558370.43	40°05'10.8219"N	80°38'45.3507"W	0.78	
3793.00	7.910	11.120	3763.94	-322.43	399.11	68.22	1739450.98	14558382.99	40°05'10.9461"N	80°38'45.3273"W	1.05	
3884.00	7.890	8.490	3854.08	-332.37	411.43	70.35	1739453.11	14558395.31	40°05'11.0678"N	80°38'45.2992"W	0.40	
3975.00	7.990	4.310	3944.21	-342.80	423.92	71.75	1739454.50	14558407.79	40°05'11.1911"N	80°38'45.2806"W	0.64	
4065.00	7.120	5.570	4033.42	-352.78	435.70	72.76	1739455.51	14558419.57	40°05'11.3075"N	80°38'45.2670"W	0.98	
4156.00	6.980	11.380	4123.74	-361.81	446.74	74.40	1739457.15	14558430.60	40°05'11.4165"N	80°38'45.2453"W	0.80	
4247.00	7.080	7.670	4214.05	-370.70	457.72	76.24	1739458.99	14558441.58	40°05'11.5249"N	80°38'45.2211"W	0.51	
4338.00	8.140	6.930	4304.25	-380.59	469.67	77.77	1739460.52	14558453.53	40°05'11.6430"N	80°38'45.2009"W	1.17	
4428.00	8.820	7.450	4393.27	-391.50	482.84	79.43	1739462.18	14558466.69	40°05'11.7731"N	80°38'45.1788"W	0.76	
4521.00	8.980	3.270	4485.15	-403.58	497.15	80.77	1739463.52	14558481.00	40°05'11.9145"N	80°38'45.1608"W	0.72	
4611.00	8.660	6.380	4574.08	-415.24	510.90	81.92	1739464.67	14558494.74	40°05'12.0503"N	80°38'45.1453"W	0.64	
4703.00	8.650	1.870	4665.04	-427.02	524.70	82.92	1739465.67	14558505.53	40°05'12.1866"N	80°38'45.1318"W	0.74	
4794.00	8.490	10.810	4755.03	-438.25	538.14	84.40	1739467.15	14558521.97	40°05'12.3193"N	80°38'45.1120"W	1.47	
4886.00	8.790	10.080	4845.98	-449.14	551.73	86.91	1739469.65	14558535.55	40°05'12.4536"N	80°38'45.0791"W	0.35	
4976.00	8.240	10.780	4934.99	-459.65	564.83	89.32	1739472.06	14558548.65	40°05'12.5830"N	80°38'45.0474"W	0.62	
5066.00	8.540	8.390	5024.03	-470.13	577.78	91.50	1739474.24	14558561.60	40°05'12.7108"N	80°38'45.0187"W	0.51	
5160.00	6.920	7.370	5117.17	-480.43	590.30	93.24	1739475.98	14558574.11	40°05'12.8345"N	80°38'44.9956"W	1.73	4 BH MWD 5160' - 19857'
5250.00	7.540	8.590	5206.45	-489.64	601.52	94.82	1739477.56	14558585.32	40°05'12.9453"N	80°38'44.9747"W	0.71	
5341.00	5.430	29.590	5296.88	-496.81	611.17	97.84	1739480.58	14558594.97	40°05'13.0405"N	80°38'44.9354"W	3.45	
5432.00	6.030	94.290	5387.51	-496.63	614.56	104.74	1739487.48	14558598.36	40°05'13.0737"N	80°38'44.8465"W	6.75	



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# Actual Wellpath Report

Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'

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## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
Slot	210H		

## WELLPATH DATA (220 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
5522.00	9.770	126.800	5476.68	-487.24	609.63	115.57	1739498.31	14558593.43	40°05'13.0246"N	80°38'44.7073"W	6.32	
5613.00	15.590	136.530	5565.43	-468.51	596.11	130.18	1739512.91	14558579.92	40°05'12.8905"N	80°38'44.5200"W	6.79	
5704.00	20.540	146.490	5651.94	-440.85	573.91	147.42	1739530.15	14558557.72	40°05'12.6704"N	80°38'44.2993"W	6.39	
5794.00	26.720	146.290	5734.35	-405.00	543.88	167.39	1739550.10	14558527.71	40°05'12.3729"N	80°38'44.0440"W	6.87	
5886.00	33.090	150.080	5814.07	-359.29	504.87	191.42	1739574.13	14558488.71	40°05'11.9864"N	80°38'43.7368"W	7.22	
5977.00	41.230	149.980	5886.53	-304.42	457.29	218.86	1739601.56	14558441.15	40°05'11.5151"N	80°38'43.3862"W	8.95	
6067.00	47.090	149.940	5951.07	-241.81	403.04	250.24	1739632.92	14558386.92	40°05'10.9778"N	80°38'42.9853"W	6.51	
6158.00	53.660	152.870	6009.08	-171.78	341.50	283.68	1739666.35	14558325.41	40°05'10.3683"N	80°38'42.5582"W	7.63	
6249.00	62.530	152.540	6057.13	-94.61	272.93	319.08	1739701.74	14558256.86	40°05'9.6893"N	80°38'42.1062"W	9.75	
6339.00	69.540	155.950	6093.67	-12.48	198.89	354.73	1739737.37	14558182.85	40°05'8.9562"N	80°38'41.6514"W	8.52	
6430.00	80.950	155.740	6116.81	75.23	118.73	390.68	1739773.31	14558102.72	40°05'8.1626"N	80°38'41.1930"W	12.54	
6521.00	89.540	154.800	6124.35	165.72	36.44	428.59	1739811.20	14558020.46	40°05'7.3479"N	80°38'40.7095"W	9.50	
6611.00	90.580	156.130	6124.25	255.60	-45.43	465.96	1739848.56	14557938.62	40°05'6.5374"N	80°38'40.2329"W	1.88	
6701.00	89.970	155.670	6123.82	345.43	-127.59	502.71	1739885.29	14557856.50	40°05'5.7241"N	80°38'39.7643"W	0.85	
6792.00	90.310	155.440	6123.60	436.30	-210.43	540.37	1739922.94	14557773.69	40°05'4.9039"N	80°38'39.2841"W	0.45	
6883.00	88.920	155.690	6124.21	527.17	-293.28	578.01	1739960.56	14557690.88	40°05'4.0838"N	80°38'38.8041"W	1.55	
6974.00	88.980	155.810	6125.88	618.00	-376.23	615.38	1739997.92	14557607.95	40°05'3.2625"N	80°38'38.3276"W	0.15	
7065.00	88.580	154.830	6127.81	708.87	-458.90	653.37	1740035.89	14557525.32	40°05'2.4441"N	80°38'37.8431"W	1.16	
7155.00	88.740	155.790	6129.92	798.73	-540.65	690.95	1740073.46	14557443.60	40°05'1.6347"N	80°38'37.3638"W	1.08	
7246.00	88.830	155.940	6131.85	889.55	-623.68	728.15	1740110.65	14557360.61	40°05'0.8128"N	80°38'36.8895"W	0.19	
7337.00	89.050	155.560	6133.53	980.39	-706.63	765.52	1740148.00	14557277.69	40°04'59.9915"N	80°38'36.4130"W	0.48	
7427.00	88.830	155.720	6135.20	1070.24	-788.60	802.63	1740185.10	14557195.74	40°04'59.1800"N	80°38'35.9398"W	0.30	
7518.00	88.520	155.610	6137.30	1161.07	-871.50	840.12	1740222.58	14557112.88	40°04'58.3594"N	80°38'35.4617"W	0.36	
7608.00	89.050	155.620	6139.21	1250.92	-953.45	877.27	1740259.71	14557030.96	40°04'57.5480"N	80°38'34.9880"W	0.59	
7699.00	88.920	155.530	6140.82	1341.77	-1036.29	914.90	1740297.32	14556948.15	40°04'56.7279"N	80°38'34.5083"W	0.17	
7790.00	89.140	155.820	6142.36	1432.62	-1119.20	952.37	1740334.78	14556865.28	40°04'55.9071"N	80°38'34.0304"W	0.40	
7881.00	89.080	156.900	6143.78	1523.39	-1202.55	988.86	1740371.25	14556781.96	40°04'55.0819"N	80°38'33.5654"W	1.19	
7971.00	89.910	156.620	6144.57	1613.14	-1285.25	1024.37	1740406.75	14556699.29	40°04'54.2633"N	80°38'33.1128"W	0.97	
8062.00	89.450	158.160	6145.08	1703.80	-1369.25	1059.35	1740441.72	14556615.33	40°04'53.4318"N	80°38'32.6671"W	1.77	
8153.00	89.010	157.310	6146.30	1794.41	-1453.46	1093.83	1740476.18	14556531.15	40°04'52.5983"N	80°38'32.2279"W	1.05	



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# Actual Wellpath Report



WV Department of Environmental Protection Timmy Minch OHI 210H AWB\_awp 237' - 19832' Proj: 19857'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
Slot	210H		

## WELLPATH DATA (220 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
8243.00	88.650	155.880	6148.14	1884.16	-1536.03	1129.57	1740511.91	14556448.61	40°04'51.7809"N	80°38'31.7724"W	1.64	
8334.00	89.910	156.600	6149.28	1974.95	-1619.31	1166.23	1740548.56	14556365.36	40°04'50.9565"N	80°38'31.3050"W	1.59	
8424.00	89.820	159.440	6149.49	2064.52	-1702.76	1199.91	1740582.22	14556281.95	40°04'50.1305"N	80°38'30.8760"W	3.16	
8515.00	89.820	159.440	6149.78	2154.85	-1787.96	1231.87	1740614.17	14556196.78	40°04'49.2872"N	80°38'30.4693"W	0.00	
8606.00	89.320	156.720	6150.46	2245.40	-1872.37	1265.84	1740648.12	14556112.40	40°04'48.4517"N	80°38'30.0367"W	3.04	
8696.00	89.140	157.540	6151.67	2335.10	-1955.29	1300.81	1740683.08	14556029.51	40°04'47.6309"N	80°38'29.5911"W	0.93	
8788.00	89.200	156.820	6153.00	2426.78	-2040.08	1336.49	1740718.75	14555944.76	40°04'46.7916"N	80°38'29.1365"W	0.79	
8879.00	88.890	156.140	6154.52	2517.54	-2123.51	1372.80	1740755.04	14555861.36	40°04'45.9657"N	80°38'28.6737"W	0.82	
8969.00	89.170	157.490	6156.04	2607.27	-2206.22	1408.23	1740790.46	14555778.68	40°04'45.1469"N	80°38'28.2223"W	1.53	
9060.00	88.800	156.650	6157.66	2697.97	-2290.02	1443.68	1740825.89	14555694.92	40°04'44.3174"N	80°38'27.7706"W	1.01	
9151.00	88.770	155.280	6159.59	2788.77	-2373.11	1480.73	1740862.93	14555611.86	40°04'43.4948"N	80°38'27.2982"W	1.51	
9241.00	90.180	155.890	6160.41	2878.64	-2455.05	1517.93	1740900.11	14555529.94	40°04'42.6835"N	80°38'26.8240"W	1.71	
9332.00	89.290	156.810	6160.83	2969.43	-2538.41	1554.43	1740936.60	14555446.62	40°04'41.8584"N	80°38'26.3587"W	1.41	
9424.00	88.920	156.750	6162.27	3061.16	-2622.95	1590.70	1740972.86	14555362.12	40°04'41.0215"N	80°38'25.8965"W	0.41	
9515.00	88.490	155.660	6164.33	3151.94	-2706.19	1627.40	1741009.55	14555278.91	40°04'40.1974"N	80°38'25.4287"W	1.29	
9605.00	88.950	156.170	6166.34	3241.75	-2788.33	1664.12	1741046.25	14555196.80	40°04'39.3842"N	80°38'24.9606"W	0.76	
9696.00	89.140	156.750	6167.85	3332.52	-2871.75	1700.46	1741082.58	14555113.41	40°04'38.5584"N	80°38'24.4975"W	0.67	
9786.00	89.080	156.050	6169.25	3422.30	-2954.21	1736.49	1741118.59	14555030.98	40°04'37.7421"N	80°38'24.0383"W	0.78	
9877.00	89.140	157.040	6170.66	3513.06	-3037.68	1772.71	1741154.79	14554947.55	40°04'36.9158"N	80°38'23.5768"W	1.09	
9968.00	88.980	156.590	6172.16	3603.79	-3121.32	1808.53	1741190.60	14554863.94	40°04'36.0878"N	80°38'23.1203"W	0.52	
10058.00	89.510	156.580	6173.34	3693.55	-3203.90	1844.29	1741226.35	14554781.39	40°04'35.2703"N	80°38'22.6646"W	0.59	
10149.00	88.860	156.220	6174.64	3784.32	-3287.28	1880.72	1741262.76	14554698.04	40°04'34.4449"N	80°38'22.2003"W	0.82	
10240.00	88.860	156.260	6176.45	3875.11	-3370.55	1917.37	1741299.40	14554614.81	40°04'33.6205"N	80°38'21.7331"W	0.04	
10330.00	89.320	156.280	6177.88	3964.90	-3452.93	1953.59	1741335.60	14554532.46	40°04'32.8050"N	80°38'21.2716"W	0.51	
10421.00	89.140	156.480	6179.10	4055.68	-3536.30	1990.05	1741372.05	14554449.12	40°04'31.9797"N	80°38'20.8069"W	0.30	
10512.00	89.020	156.220	6180.56	4146.46	-3619.65	2026.54	1741408.53	14554365.81	40°04'31.1546"N	80°38'20.3418"W	0.31	
10603.00	88.740	155.690	6182.34	4237.28	-3702.73	2063.62	1741445.59	14554282.75	40°04'30.3320"N	80°38'19.8692"W	0.66	
10693.00	88.830	155.940	6184.25	4327.10	-3784.81	2100.48	1741482.44	14554200.70	40°04'29.5194"N	80°38'19.3993"W	0.30	
10784.00	89.690	156.610	6185.42	4417.90	-3868.12	2137.09	1741519.03	14554117.44	40°04'28.6947"N	80°38'18.9327"W	1.20	
10874.00	89.420	156.400	6186.12	4507.67	-3950.65	2172.97	1741554.90	14554034.93	40°04'27.8777"N	80°38'18.4755"W	0.38	



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# Actual Wellpath Report

Timmy Minch OHI 210H AWB\_awp 237' - 19832' Proj: 19857'

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Environmental Protection

## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
Slot	210H		

## WELLPATH DATA (220 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
10965.00	88.920	156.290	6187.44	4598.45	-4034.00	2209.48	1741591.39	14553951.62	40°04'27.0526"N	80°38'18.0102"W	0.56	
11056.00	89.200	156.610	6188.93	4689.22	-4117.41	2245.83	1741627.73	14553868.24	40°04'26.2269"N	80°38'17.5470"W	0.47	
11146.00	89.080	156.530	6190.28	4778.98	-4199.98	2281.61	1741663.50	14553785.71	40°04'25.4095"N	80°38'17.0910"W	0.16	
11237.00	89.110	156.450	6191.72	4869.75	-4283.41	2317.91	1741699.78	14553702.30	40°04'24.5835"N	80°38'16.6285"W	0.09	
11327.00	89.200	156.440	6193.05	4959.53	-4365.90	2353.87	1741735.73	14553619.84	40°04'23.7668"N	80°38'16.1702"W	0.10	
11418.00	89.140	156.490	6194.37	5050.30	-4449.33	2390.20	1741772.05	14553536.45	40°04'22.9410"N	80°38'15.7072"W	0.09	
11509.00	88.920	156.520	6195.91	5141.06	-4532.77	2426.48	1741808.31	14553453.04	40°04'22.1149"N	80°38'15.2450"W	0.24	
11599.00	89.170	156.400	6197.41	5230.83	-4615.27	2462.42	1741844.24	14553370.58	40°04'21.2982"N	80°38'14.7870"W	0.31	
11690.00	88.610	156.360	6199.17	5321.60	-4698.63	2498.87	1741880.68	14553287.25	40°04'20.4730"N	80°38'14.3225"W	0.62	
11780.00	89.480	156.220	6200.67	5411.39	-4781.02	2535.06	1741916.85	14553204.89	40°04'19.6573"N	80°38'13.8613"W	0.98	
11871.00	88.890	156.460	6201.97	5502.17	-4864.36	2571.57	1741953.35	14553121.58	40°04'18.8323"N	80°38'13.3960"W	0.70	
11961.00	88.830	156.330	6203.76	5591.94	-4946.81	2607.60	1741989.36	14553039.16	40°04'18.0160"N	80°38'12.9369"W	0.16	
12052.00	89.110	156.370	6205.39	5682.72	-5030.16	2644.10	1742025.85	14552955.85	40°04'17.1909"N	80°38'12.4718"W	0.31	
12144.00	89.110	156.460	6206.82	5774.49	-5114.46	2680.91	1742062.64	14552871.58	40°04'16.3563"N	80°38'12.0028"W	0.10	
12234.00	88.830	156.360	6208.44	5864.27	-5196.93	2716.92	1742098.64	14552789.14	40°04'15.5399"N	80°38'11.5439"W	0.33	
12325.00	89.110	156.470	6210.07	5955.04	-5280.31	2753.32	1742135.03	14552705.79	40°04'14.7145"N	80°38'11.0800"W	0.33	
12416.00	89.380	156.640	6211.27	6045.80	-5363.79	2789.53	1742171.22	14552622.34	40°04'13.8880"N	80°38'10.6187"W	0.35	
12506.00	89.080	156.070	6212.48	6135.59	-5446.23	2825.62	1742207.29	14552539.94	40°04'13.0719"N	80°38'10.1588"W	0.72	
12597.00	88.890	156.250	6214.09	6226.38	-5529.45	2862.39	1742244.05	14552456.75	40°04'12.2480"N	80°38'9.6902"W	0.29	
12687.00	89.110	156.160	6215.67	6316.18	-5611.79	2898.70	1742280.35	14552374.44	40°04'11.4329"N	80°38'9.2275"W	0.26	
12779.00	88.770	156.470	6217.37	6407.96	-5696.02	2935.65	1742317.28	14552290.24	40°04'10.5990"N	80°38'8.7566"W	0.50	
12870.00	89.050	156.170	6219.10	6498.74	-5779.35	2972.19	1742353.81	14552206.95	40°04'9.7741"N	80°38'8.2910"W	0.45	
12960.00	88.980	155.870	6220.65	6588.55	-5861.57	3008.76	1742390.37	14552124.76	40°04'8.9601"N	80°38'7.8249"W	0.34	
13052.00	89.690	156.700	6221.71	6680.34	-5945.79	3045.76	1742427.35	14552040.57	40°04'8.1263"N	80°38'7.3535"W	1.19	
13142.00	89.170	156.270	6222.61	6770.12	-6028.31	3081.67	1742463.24	14551958.08	40°04'7.3094"N	80°38'6.8960"W	0.75	
13233.00	88.770	156.260	6224.24	6860.90	-6111.60	3118.29	1742499.85	14551874.83	40°04'6.4848"N	80°38'6.4293"W	0.44	
13323.00	88.800	156.300	6226.15	6950.69	-6193.98	3154.49	1742536.03	14551792.48	40°04'5.6693"N	80°38'5.9681"W	0.06	
13414.00	88.950	156.170	6227.94	7041.47	-6277.25	3191.15	1742572.68	14551709.24	40°04'4.8449"N	80°38'5.5009"W	0.22	
13506.00	89.200	155.990	6229.42	7133.28	-6361.34	3228.45	1742609.97	14551625.19	40°04'4.0124"N	80°38'5.0256"W	0.33	
13597.00	88.920	153.430	6230.92	7224.19	-6443.60	3267.32	1742648.82	14551542.96	40°04'3.1980"N	80°38'4.5300"W	2.83	





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# Actual Wellpath Report

Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'  
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REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Timmy Minch OHI 210H
Field	Ohio VW		API	47069003370000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 210H AWB
Slot	210H			

## WELLPATH DATA (220 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
13688.00	88.890	153.420	6232.66	7315.16	-6524.97	3308.02	1742689.51	14551461.62	40°04'2.3922"N	80°38'4.0108"W	0.03	
13779.00	89.010	153.210	6234.32	7406.14	-6606.26	3348.88	1742730.35	14551380.36	40°04'1.5872"N	80°38'3.4895"W	0.27	
13870.00	88.980	153.270	6235.92	7497.11	-6687.50	3389.85	1742771.30	14551299.15	40°04'0.7827"N	80°38'2.9669"W	0.07	
13960.00	88.920	153.120	6237.57	7587.09	-6767.82	3430.42	1742811.86	14551218.87	40°03'59.9873"N	80°38'2.4492"W	0.18	
14051.00	89.080	153.450	6239.16	7678.07	-6849.09	3471.33	1742852.75	14551137.63	40°03'59.1825"N	80°38'1.9274"W	0.40	
14142.00	88.860	153.490	6240.79	7769.04	-6930.50	3511.97	1742893.38	14551056.25	40°03'58.3764"N	80°38'1.4090"W	0.25	
14235.00	89.020	153.650	6242.51	7862.01	-7013.76	3553.36	1742934.75	14550973.02	40°03'57.5519"N	80°38'0.8811"W	0.24	
14325.00	88.920	153.030	6244.13	7951.98	-7094.18	3593.73	1742975.11	14550892.63	40°03'56.7556"N	80°38'0.3661"W	0.70	
14416.00	89.020	153.190	6245.77	8042.96	-7175.33	3634.88	1743016.24	14550811.52	40°03'55.9520"N	80°37'59.8411"W	0.21	
14506.00	89.380	153.400	6247.02	8132.94	-7255.72	3675.32	1743056.67	14550731.16	40°03'55.1559"N	80°37'59.3252"W	0.46	
14598.00	89.010	153.220	6248.32	8224.93	-7337.91	3716.64	1743097.97	14550649.00	40°03'54.3420"N	80°37'58.7981"W	0.45	
14689.00	88.920	152.880	6249.96	8315.91	-7419.01	3757.88	1743139.19	14550567.93	40°03'53.5388"N	80°37'58.2721"W	0.39	
14779.00	89.290	153.130	6251.37	8405.89	-7499.20	3798.73	1743180.02	14550487.77	40°03'52.7448"N	80°37'57.7510"W	0.50	
14870.00	89.350	153.530	6252.45	8496.87	-7580.51	3839.57	1743220.85	14550406.49	40°03'51.9396"N	80°37'57.2300"W	0.44	
14960.00	89.110	153.210	6253.66	8586.86	-7660.95	3879.90	1743261.17	14550326.08	40°03'51.1430"N	80°37'56.7155"W	0.44	
15051.00	89.200	152.970	6255.00	8677.84	-7742.09	3921.09	1743302.33	14550244.97	40°03'50.3395"N	80°37'56.1901"W	0.28	
15142.00	88.950	153.420	6256.47	8768.82	-7823.30	3962.12	1743343.35	14550163.79	40°03'49.5353"N	80°37'55.6667"W	0.57	
15233.00	89.110	153.550	6258.01	8859.79	-7904.72	4002.74	1743383.95	14550082.41	40°03'48.7290"N	80°37'55.1486"W	0.23	
15323.00	89.540	153.020	6259.07	8949.78	-7985.11	4043.19	1743424.39	14550002.05	40°03'47.9330"N	80°37'54.6325"W	0.76	
15415.00	89.380	153.060	6259.94	9041.77	-8067.10	4084.90	1743466.08	14549920.09	40°03'47.1210"N	80°37'54.1005"W	0.18	
15508.00	89.230	153.080	6261.06	9134.76	-8150.01	4127.02	1743508.19	14549837.21	40°03'46.2999"N	80°37'53.5632"W	0.16	
15599.00	89.380	153.000	6262.17	9225.75	-8231.12	4168.27	1743549.42	14549756.14	40°03'45.4968"N	80°37'53.0370"W	0.19	
15691.00	89.850	153.330	6262.79	9317.74	-8313.21	4209.80	1743590.94	14549674.08	40°03'44.6838"N	80°37'52.5072"W	0.62	
15781.00	88.310	152.130	6264.23	9407.72	-8393.19	4251.03	1743632.15	14549594.13	40°03'43.8917"N	80°37'51.9812"W	2.17	
15872.00	90.120	153.840	6265.48	9498.70	-8474.25	4292.36	1743673.46	14549513.10	40°03'43.0890"N	80°37'51.4540"W	2.74	
15962.00	89.780	153.100	6265.56	9588.69	-8554.77	4332.56	1743713.64	14549432.61	40°03'42.2916"N	80°37'50.9413"W	0.90	
16054.00	89.600	153.000	6266.05	9680.68	-8636.78	4374.25	1743755.32	14549350.64	40°03'41.4795"N	80°37'50.4094"W	0.22	
16144.00	89.260	152.180	6266.95	9770.68	-8716.67	4415.68	1743796.74	14549270.78	40°03'40.6883"N	80°37'49.8809"W	0.99	
16234.00	90.280	153.090	6267.31	9860.67	-8796.60	4457.05	1743838.09	14549190.88	40°03'39.8968"N	80°37'49.3531"W	1.52	
16325.00	89.820	153.010	6267.23	9951.67	-8877.71	4498.29	1743879.31	14549109.80	40°03'39.0935"N	80°37'48.8270"W	0.51	





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Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
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WELLPATH DATA (220 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
16415.00	89.660	152.920	6267.64	10041.66	-8957.88	4539.20	1743920.21	14549029.66	40°03'38.2996"N	80°37'48.3052"W	0.20	
16506.00	89.510	153.750	6268.30	10132.65	-9039.20	4580.04	1743961.03	14548948.38	40°03'37.4943"N	80°37'47.7844"W	0.93	
16597.00	89.750	153.710	6268.89	10223.63	-9120.80	4620.31	1744001.29	14548866.81	40°03'36.6863"N	80°37'47.2707"W	0.27	
16688.00	89.570	153.400	6269.43	10314.61	-9202.27	4660.84	1744041.80	14548785.36	40°03'35.8795"N	80°37'46.7539"W	0.39	
16778.00	89.450	153.670	6270.20	10404.59	-9282.84	4700.94	1744081.89	14548704.83	40°03'35.0817"N	80°37'46.2424"W	0.33	
16869.00	89.420	152.820	6271.09	10495.58	-9364.09	4741.91	1744122.83	14548623.61	40°03'34.2770"N	80°37'45.7199"W	0.93	
16960.00	89.450	152.910	6271.99	10586.57	-9445.07	4783.41	1744164.32	14548542.66	40°03'33.4751"N	80°37'45.1905"W	0.10	
17050.00	89.750	153.410	6272.62	10676.56	-9525.37	4824.04	1744204.94	14548462.39	40°03'32.6798"N	80°37'44.6723"W	0.65	
17140.00	89.690	154.470	6273.06	10766.53	-9606.22	4863.58	1744244.46	14548381.57	40°03'31.8793"N	80°37'44.1681"W	1.18	
17232.00	90.250	155.070	6273.11	10858.46	-9689.44	4902.80	1744283.66	14548298.38	40°03'31.0552"N	80°37'43.6683"W	0.89	
17323.00	89.940	152.670	6272.96	10949.42	-9771.14	4942.87	1744323.72	14548216.72	40°03'30.2463"N	80°37'43.1573"W	2.66	
17415.00	89.780	154.400	6273.18	11041.40	-9853.49	4983.87	1744364.70	14548134.40	40°03'29.4307"N	80°37'42.6344"W	1.89	
17505.00	89.750	154.730	6273.55	11131.34	-9934.77	5022.52	1744403.34	14548053.15	40°03'28.6260"N	80°37'42.1417"W	0.37	
17598.00	89.480	154.390	6274.17	11224.28	-10018.75	5062.47	1744443.27	14547969.21	40°03'27.7944"N	80°37'41.6325"W	0.47	
17689.00	89.570	154.190	6274.93	11315.23	-10100.74	5101.95	1744482.73	14547887.25	40°03'26.9826"N	80°37'41.1292"W	0.24	
17782.00	90.220	152.380	6275.10	11408.22	-10183.81	5143.75	1744524.52	14547804.21	40°03'26.1599"N	80°37'40.5960"W	2.07	
17872.00	90.000	150.140	6274.93	11498.19	-10262.71	5187.02	1744567.78	14547725.34	40°03'25.3784"N	80°37'40.0438"W	2.50	
17964.00	89.510	147.350	6275.32	11589.98	-10341.35	5234.75	1744615.49	14547646.73	40°03'24.5993"N	80°37'39.4342"W	3.08	
18054.00	89.940	144.410	6275.75	11679.38	-10415.85	5285.23	1744665.95	14547572.26	40°03'23.8610"N	80°37'38.7890"W	3.30	
18146.00	89.880	147.360	6275.90	11770.76	-10492.01	5336.82	1744717.52	14547496.13	40°03'23.1062"N	80°37'38.1297"W	3.21	
18239.00	89.570	145.710	6276.34	11863.25	-10569.59	5388.10	1744768.78	14547418.58	40°03'22.3375"N	80°37'37.4744"W	1.81	
18330.00	89.350	142.560	6277.20	11953.27	-10643.32	5441.41	1744822.06	14547344.88	40°03'21.6066"N	80°37'36.7928"W	3.47	
18423.00	89.660	141.320	6278.00	12044.70	-10716.54	5498.74	1744879.37	14547271.68	40°03'20.8807"N	80°37'36.0595"W	1.37	
18513.00	89.290	140.200	6278.83	12132.82	-10786.25	5555.67	1744936.28	14547202.01	40°03'20.1895"N	80°37'35.3312"W	1.31	
18604.00	89.690	137.470	6279.64	12221.24	-10854.74	5615.56	1744996.14	14547133.54	40°03'19.5101"N	80°37'34.5647"W	3.03	
18695.00	88.980	136.060	6280.70	12308.83	-10921.03	5677.89	1745058.45	14547067.27	40°03'18.8524"N	80°37'33.7667"W	1.73	
18786.00	90.550	135.030	6281.07	12395.88	-10985.99	5741.61	1745122.15	14547002.35	40°03'18.2079"N	80°37'32.9507"W	2.06	
18876.00	90.280	132.450	6280.42	12481.10	-11048.20	5806.63	1745187.14	14546940.15	40°03'17.5904"N	80°37'32.1180"W	2.88	
18967.00	89.850	132.600	6280.31	12566.63	-11109.71	5873.70	1745254.18	14546878.67	40°03'16.9798"N	80°37'31.2588"W	0.50	
19058.00	89.660	132.770	6280.70	12652.25	-11171.41	5940.59	1745321.05	14546817.00	40°03'16.3673"N	80°37'30.4020"W	0.28	



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Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'  
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# Actual Wellpath Report



WV Department of  
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION				
Operator	SWN PRODUCTION COMPANY, LLC		Well	Timmy Minch OHI 210H
Field	Ohio VW		API	47069003370000
Facility	Timmy Minch OHI Pad		Wellbore	Timmy Minch OHI 210H AWB
Slot	210H			

WELLPATH DATA (220 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
19149.00	89.910	132.510	6281.04	12737.85	-11233.05	6007.53	1745387.96	14546755.38	40°03'15.7554"N	80°37'29.5445"W	0.40	
19241.00	90.000	132.850	6281.12	12824.41	-11295.41	6075.16	1745455.57	14546693.04	40°03'15.1362"N	80°37'28.6781"W	0.38	
19331.00	89.010	132.970	6281.89	12909.21	-11356.69	6141.08	1745521.46	14546631.79	40°03'14.5280"N	80°37'27.8338"W	1.11	
19422.00	89.570	132.410	6283.02	12994.83	-11418.38	6207.96	1745588.32	14546570.12	40°03'13.9155"N	80°37'26.9770"W	0.87	
19512.00	89.690	132.610	6283.60	13079.42	-11479.20	6274.30	1745654.63	14546509.33	40°03'13.3118"N	80°37'26.1272"W	0.26	
19604.00	89.480	132.530	6284.27	13165.91	-11541.43	6342.06	1745722.36	14546447.12	40°03'12.6939"N	80°37'25.2593"W	0.24	
19695.00	89.140	132.410	6285.36	13251.41	-11602.87	6409.18	1745789.45	14546385.70	40°03'12.0840"N	80°37'24.3995"W	0.40	
19786.00	89.940	132.210	6286.10	13336.83	-11664.13	6476.47	1745856.72	14546324.47	40°03'11.4759"N	80°37'23.5375"W	0.91	
19832.00	88.950	132.660	6286.54	13380.04	-11695.16	6510.42	1745890.65	14546293.45	40°03'11.1677"N	80°37'23.1026"W	2.36	
19857.00†	88.950	132.660	6287.00	13403.56	-11712.10	6528.80	1745909.03	14546276.52	40°03'10.9996"N	80°37'22.8672"W	0.00	Proj to TD





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WV Department of Environmental Protection

# Actual Wellpath Report

Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'  
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## REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Timmy Minch OHI 210H
Field	Ohio VW	API	47069003370000
Facility	Timmy Minch OHI Pad	Wellbore	Timmy Minch OHI 210H AWB
Slot	210H		

## TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Timmy Minch OHI 210H LP Rev 3	6128.00	4.30	435.82	1739818.43	14557988.34	40°05'7.0301"N	80°38'40.6182"W	point
Timmy Minch OHI 210H 2	6316.00	-6156.18	3144.90	1742526.45	14551830.27	40°04'6.0432"N	80°38'6.0894"W	point
Timmy Minch OHI 210H 3	6316.00	-10484.80	5298.85	1744679.56	14547503.34	40°03'23.1791"N	80°37'38.6176"W	point
Timmy Minch OHI 210H BHL rev 3	6316.00	-11707.41	6537.57	1745917.80	14546281.21	40°03'11.0456"N	80°37'22.7541"W	point

## WELLPATH COMPOSITION - Ref Wellbore: Timmy Minch OHI 210H AWB Ref Wellpath: Timmy Minch OHI 210H AWB\_ awp 237' - 19832' Proj: 19857'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	507.00	OWSG MWD rev2 + HRGM	1 Tally MWD 237' - 507'	Timmy Minch OHI 210H AWB	6/27/2022
507.00	1856.00	OWSG MWD rev2 + HRGM	2 Tally MWD 596' - 1856'	Timmy Minch OHI 210H AWB	6/27/2022
1856.00	5066.00	OWSG MWD rev2 + HRGM	3 Tally MWD 1975' - 5066'	Timmy Minch OHI 210H AWB	6/27/2022
5066.00	19857.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)	4 BH MWD 5160' - 19857'	Timmy Minch OHI 210H AWB	6/27/2022