



SWN PRODUCTION COMPANY, LLC



Location: Ohio County, WV
 Field: Ohio
 Facility: OCC A OHI Pad

Slot: 201H
 Well: OCC A OHI 201H
 Wellbore: OCC A OHI 201H AWB

Plot reference wellpath is OCC A OHI 201H awp 50' - 24440' Proj: 24465'	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 40 (KB)	North Reference: Grid north
Reference wellpath measured depths are referenced to SDC 40 (KB)	Scale: True distance
SDC 40 (KB) to Mean Sea Level: 1121.1 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: 201H): -1095.1 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by: tranlam on 2022-08-28; Database: WA_MPL_EASTERNUS_Defn

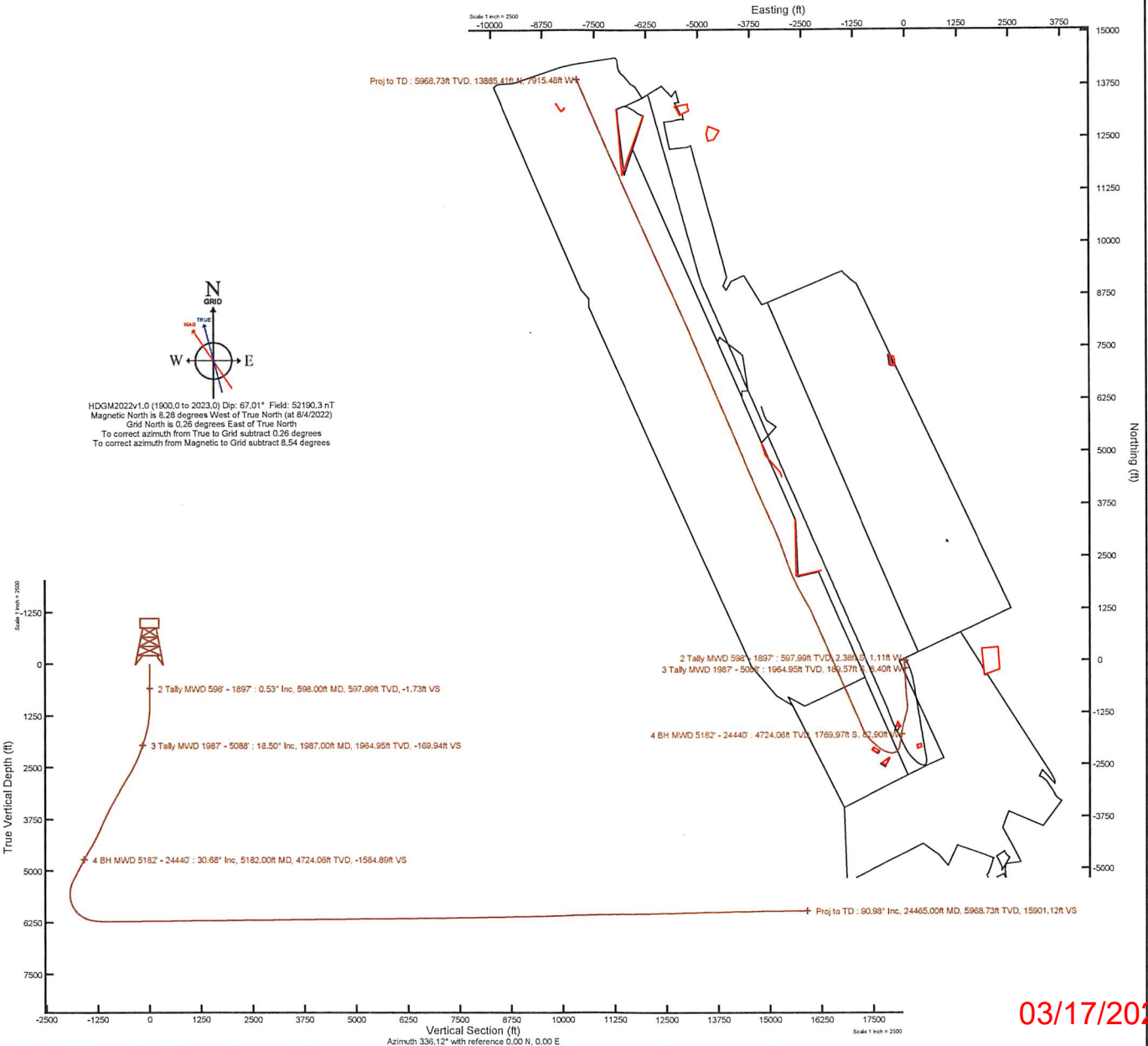
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
OCC A OHI Pad			1752836.900	14555922.760	40°04'46.0622"N	80°35'53.1835"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
201H	-28.08	1.07	1752837.970	14555894.690	40°04'45.7847"N	80°35'53.1714"W
SDC 40 (KB) to Ground level (At Slot: 201H)					26ft	
Mean Sea Level to Ground level (At Slot: 201H)					-1095.1ft	
SDC 40 (KB) to Mean Sea Level					1121.1ft	

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
24465.00	90.980	336.770	5968.73	13885.41	-7915.48	1744925.56	14569774.72	40°07'3.3423"N	80°37'34.2490"W

API: 47069003410000
BH JOB: 111411278
DURATION: 08.19.2022 to 08.27.2022
RIG: SDC 40



03/17/2023

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999614	Report Generated	8/28/2022 at 10:31:07 PM
Convergence at slot	0.26° 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	-28.08	1.07	1752837.97	14555894.69	40°04'45.7847"N	80°35'53.1714"W
Facility Reference Pt			1752836.90	14555922.76	40°04'46.0622"N	80°35'53.1835"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	1121.10ft
Horizontal Reference Pt	Slot	SDC 40 (KB) to Mean Sea Level	1121.10ft
Vertical Reference Pt	SDC 40 (KB)	SDC 40 (KB) to Ground Level at Slot (201H)	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	336.12°

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Field	Ohio	API	4706900341000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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	195.990	0.00	0.00	0.00	0.00	1752837.97	14555894.69	40°04'45.7847"N	80°35'53.1714"W	0.00	0.000	0.00
26.00	0.000	195.990	26.00	0.00	0.00	0.00	1752837.97	14555894.69	40°04'45.7847"N	80°35'53.1714"W	0.00	0.000	0.00
50.00	0.170	195.990	50.00	-0.03	-0.03	-0.01	1752837.96	14555894.66	40°04'45.7844"N	80°35'53.1715"W	0.04	195.990	0.71
100.00	0.190	166.970	100.00	-0.17	-0.19	-0.01	1752837.96	14555894.50	40°04'45.7829"N	80°35'53.1716"W	0.19	183.548	0.18
150.00	0.230	168.040	150.00	-0.35	-0.37	0.03	1752838.00	14555894.32	40°04'45.7811"N	80°35'53.1711"W	0.37	175.626	0.08
200.00	0.150	215.810	200.00	-0.48	-0.52	0.01	1752837.98	14555894.17	40°04'45.7796"N	80°35'53.1713"W	0.52	178.842	0.34
250.00	0.180	185.060	250.00	-0.58	-0.65	-0.03	1752837.94	14555894.04	40°04'45.7783"N	80°35'53.1719"W	0.65	183.073	0.18
300.00	0.140	197.990	300.00	-0.69	-0.78	-0.06	1752837.91	14555893.91	40°04'45.7769"N	80°35'53.1722"W	0.79	184.417	0.11
350.00	0.280	208.090	350.00	-0.81	-0.95	-0.14	1752837.83	14555893.74	40°04'45.7753"N	80°35'53.1732"W	0.96	188.204	0.29
400.00	0.220	188.040	400.00	-0.97	-1.15	-0.21	1752837.76	14555893.54	40°04'45.7733"N	80°35'53.1741"W	1.17	190.223	0.21
450.00	0.340	225.810	450.00	-1.10	-1.35	-0.33	1752837.64	14555893.34	40°04'45.7714"N	80°35'53.1757"W	1.39	193.632	0.43
486.00	0.520	212.950	486.00	-1.23	-1.56	-0.49	1752837.48	14555893.13	40°04'45.7693"N	80°35'53.1778"W	1.64	197.513	0.56
598.00	0.530	220.860	597.99	-1.73	-2.38	-1.11	1752836.86	14555892.31	40°04'45.7612"N	80°35'53.1858"W	2.63	204.963	0.07
689.00	0.660	221.080	688.99	-2.13	-3.09	-1.73	1752836.24	14555891.60	40°04'45.7542"N	80°35'53.1938"W	3.54	209.183	0.14
780.00	1.340	234.830	779.97	-2.56	-4.10	-2.94	1752835.03	14555890.59	40°04'45.7443"N	80°35'53.2095"W	5.05	215.649	0.79
872.00	2.160	246.510	871.93	-2.76	-5.41	-5.41	1752832.56	14555889.28	40°04'45.7314"N	80°35'53.2413"W	7.65	224.993	0.97
962.00	3.360	244.660	961.82	-2.81	-7.22	-9.35	1752828.62	14555887.47	40°04'45.7138"N	80°35'53.2921"W	11.81	232.336	1.34
1054.00	4.120	233.390	1053.63	-3.61	-10.34	-14.44	1752823.53	14555884.35	40°04'45.6831"N	80°35'53.3578"W	17.76	234.389	1.15
1145.00	4.910	220.120	1144.35	-6.04	-15.27	-19.57	1752818.40	14555879.43	40°04'45.6347"N	80°35'53.4241"W	24.83	232.041	1.43
1237.00	5.800	201.460	1235.95	-11.03	-22.61	-23.81	1752814.17	14555872.09	40°04'45.5623"N	80°35'53.4791"W	32.84	226.486	2.11
1328.00	7.470	189.720	1326.34	-19.19	-32.72	-26.49	1752811.49	14555861.98	40°04'45.4625"N	80°35'53.5141"W	42.10	218.998	2.36
1419.00	9.620	184.530	1416.33	-30.81	-46.13	-28.09	1752809.89	14555848.58	40°04'45.3301"N	80°35'53.5355"W	54.01	211.341	2.51
1510.00	11.700	176.810	1505.76	-46.13	-62.93	-28.18	1752809.80	14555831.79	40°04'45.1641"N	80°35'53.5376"W	68.95	204.124	2.77
1601.00	14.250	172.350	1594.43	-65.52	-83.24	-26.18	1752811.80	14555811.48	40°04'44.9632"N	80°35'53.5130"W	87.26	197.456	3.01
1692.00	15.030	171.630	1682.47	-87.64	-106.02	-22.97	1752815.01	14555788.71	40°04'44.7380"N	80°35'53.4730"W	108.48	192.223	0.88
1783.00	15.510	170.650	1770.26	-110.79	-129.70	-19.27	1752818.70	14555765.04	40°04'44.5039"N	80°35'53.4269"W	131.12	188.452	0.60
1831.00	16.590	170.350	1816.39	-123.65	-142.78	-17.08	1752820.90	14555751.96	40°04'44.3744"N	80°35'53.3994"W	143.80	186.822	2.26
1897.00	17.830	169.410	1879.43	-142.61	-162.01	-13.65	1752824.33	14555732.75	40°04'44.1843"N	80°35'53.3564"W	162.58	184.814	1.93
1987.00	18.500	169.060	1964.95	-169.94	-189.57	-8.40	1752829.57	14555705.19	40°04'43.9117"N	80°35'53.2905"W	189.76	182.538	0.75
2077.00	19.910	173.950	2049.94	-198.45	-218.83	-4.08	1752833.89	14555675.94	40°04'43.6224"N	80°35'53.2366"W	218.87	181.067	2.38

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Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
2168.00	22.140	179.430	2134.89	-228.95	-251.39	-2.27	1752835.70	14555643.39	40°04'43.3005"N	80°35'53.2153"W	251.41	180.518	3.26
2258.00	24.020	180.650	2217.68	-261.20	-286.67	-2.31	1752835.66	14555608.13	40°04'42.9519"N	80°35'53.2178"W	286.68	180.462	2.16
2350.00	25.940	180.690	2301.07	-296.53	-325.52	-2.77	1752835.20	14555569.30	40°04'42.5680"N	80°35'53.2259"W	325.53	180.487	2.09
2441.00	27.600	179.440	2382.31	-334.00	-366.50	-2.80	1752835.17	14555528.33	40°04'42.1630"N	80°35'53.2287"W	366.51	180.438	1.93
2531.00	28.630	177.380	2461.70	-373.24	-408.89	-1.61	1752836.36	14555485.96	40°04'41.7441"N	80°35'53.2159"W	408.90	180.226	1.57
2623.00	29.590	175.800	2542.08	-415.17	-453.57	1.06	1752839.03	14555441.30	40°04'41.3025"N	80°35'53.1841"W	453.57	179.866	1.34
2714.00	31.680	176.610	2620.37	-458.71	-499.83	4.12	1752842.09	14555395.05	40°04'40.8451"N	80°35'53.1475"W	499.85	179.528	2.34
2805.00	33.300	176.710	2697.13	-504.48	-548.63	6.97	1752844.93	14555346.27	40°04'40.3628"N	80°35'53.1137"W	548.67	179.273	1.78
2896.00	33.090	177.370	2773.28	-551.02	-598.38	9.54	1752847.51	14555296.54	40°04'39.8710"N	80°35'53.0835"W	598.46	179.087	0.46
2986.00	32.950	176.330	2848.74	-596.89	-647.35	12.23	1752850.20	14555247.59	40°04'39.3870"N	80°35'53.0517"W	647.47	178.917	0.65
3077.00	31.680	176.980	2925.64	-642.44	-695.91	15.08	1752853.04	14555199.05	40°04'38.9070"N	80°35'53.0179"W	696.08	178.759	1.45
3170.00	30.910	176.690	3005.11	-687.63	-744.15	17.74	1752855.71	14555150.83	40°04'38.4302"N	80°35'52.9864"W	744.36	178.634	0.84
3262.00	31.010	175.530	3084.01	-732.10	-791.36	20.95	1752858.92	14555103.63	40°04'37.9634"N	80°35'52.9478"W	791.64	178.483	0.66
3353.00	31.000	175.050	3162.00	-776.38	-838.08	24.80	1752862.76	14555056.93	40°04'37.5016"N	80°35'52.9010"W	838.45	178.305	0.27
3443.00	30.740	174.140	3239.25	-820.17	-884.05	29.15	1752867.11	14555010.98	40°04'37.0471"N	80°35'52.8478"W	884.53	178.111	0.59
3534.00	30.220	172.700	3317.68	-864.24	-929.90	34.44	1752872.39	14554965.15	40°04'36.5938"N	80°35'52.7825"W	930.54	177.879	0.99
3624.00	29.910	174.060	3395.57	-907.30	-974.69	39.64	1752877.59	14554920.38	40°04'36.1510"N	80°35'52.7182"W	975.49	177.671	0.83
3715.00	29.280	173.740	3474.70	-950.09	-1019.38	44.41	1752882.36	14554875.71	40°04'35.7092"N	80°35'52.6593"W	1020.34	177.505	0.71
3806.00	28.310	176.470	3554.45	-991.53	-1063.04	48.16	1752886.12	14554832.07	40°04'35.2775"N	80°35'52.6136"W	1064.13	177.406	1.80
3898.00	28.610	181.410	3635.34	-1031.91	-1106.84	48.97	1752886.92	14554788.28	40°04'34.8447"N	80°35'52.6058"W	1107.92	177.467	2.58
3989.00	27.390	184.860	3715.69	-1069.97	-1149.48	46.66	1752884.61	14554745.66	40°04'34.4234"N	80°35'52.6380"W	1150.42	177.676	2.23
4080.00	27.880	187.110	3796.32	-1106.56	-1191.45	42.25	1752880.20	14554703.70	40°04'34.0088"N	80°35'52.6971"W	1192.20	177.969	1.27
4171.00	29.360	193.800	3876.21	-1142.47	-1234.24	34.29	1752872.25	14554660.93	40°04'33.5863"N	80°35'52.8020"W	1234.72	178.409	3.88
4265.00	29.010	196.120	3958.28	-1178.17	-1278.52	22.47	1752860.43	14554616.67	40°04'33.1493"N	80°35'52.9567"W	1278.72	178.993	1.26
4357.00	30.830	193.960	4038.02	-1213.88	-1322.83	10.58	1752848.55	14554572.37	40°04'32.7119"N	80°35'53.1121"W	1322.88	179.542	2.30
4449.00	31.870	194.900	4116.59	-1251.43	-1369.18	-1.35	1752836.62	14554526.04	40°04'32.2544"N	80°35'53.2683"W	1369.18	180.056	1.25
4539.00	32.390	196.230	4192.81	-1288.39	-1415.29	-14.20	1752823.78	14554479.95	40°04'31.7993"N	80°35'53.4362"W	1415.36	180.575	0.98
4630.00	34.830	196.140	4268.59	-1326.94	-1463.66	-28.23	1752809.75	14554431.59	40°04'31.3219"N	80°35'53.6196"W	1463.93	181.105	2.68
4720.00	35.180	193.650	4342.31	-1367.18	-1513.55	-41.50	1752796.49	14554381.73	40°04'30.8295"N	80°35'53.7932"W	1514.12	181.571	1.63
4811.00	36.060	192.050	4416.28	-1409.66	-1565.22	-53.28	1752784.71	14554330.08	40°04'30.3195"N	80°35'53.9477"W	1566.12	181.949	1.41

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Slot	201H		

WELLPATH DATA (266 stations)													
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4902.00	35.340	189.060	4490.19	-1453.44	-1617.40	-63.01	1752774.98	14554277.91	40°04'29.8042"N	80°35'54.0759"W	1618.63	182.231	2.07
4993.00	33.440	186.670	4565.28	-1497.12	-1668.31	-70.07	1752767.93	14554227.03	40°04'29.3015"N	80°35'54.1697"W	1669.78	182.405	2.56
5088.00	33.620	186.480	4644.48	-1542.36	-1720.44	-76.08	1752761.92	14554174.92	40°04'28.7866"N	80°35'54.2500"W	1722.12	182.532	0.22
5182.00	30.680	189.320	4724.06	-1584.89	-1769.97	-82.90	1752755.10	14554125.40	40°04'28.2974"N	80°35'54.3406"W	1771.91	182.682	3.52
5274.00	32.160	190.280	4802.57	-1624.80	-1817.23	-91.07	1752746.93	14554078.17	40°04'27.8308"N	80°35'54.4485"W	1819.51	182.869	1.70
5364.00	32.180	190.760	4878.75	-1664.33	-1864.34	-99.82	1752738.19	14554031.07	40°04'27.3656"N	80°35'54.5638"W	1867.01	183.065	0.28
5455.00	32.460	190.580	4955.65	-1704.41	-1912.15	-108.83	1752729.18	14553983.28	40°04'26.8935"N	80°35'54.6824"W	1915.25	183.257	0.33
5545.00	32.360	190.470	5031.63	-1744.21	-1959.58	-117.64	1752720.37	14553935.87	40°04'26.4252"N	80°35'54.7985"W	1963.11	183.436	0.13
5636.00	32.310	190.510	5108.52	-1784.38	-2007.44	-126.50	1752711.52	14553888.03	40°04'25.9527"N	80°35'54.9153"W	2011.42	183.606	0.06
5726.00	32.330	190.320	5184.58	-1824.13	-2054.76	-135.20	1752702.82	14553840.72	40°04'25.4854"N	80°35'55.0299"W	2059.21	183.765	0.12
5817.00	30.180	195.830	5262.38	-1861.87	-2100.72	-145.80	1752692.22	14553794.78	40°04'25.0317"N	80°35'55.1690"W	2105.78	183.970	3.93
5907.00	27.600	207.750	5341.24	-1892.24	-2140.98	-161.70	1752676.34	14553754.54	40°04'24.6346"N	80°35'55.3757"W	2147.08	184.319	7.00
5998.00	24.890	221.430	5422.93	-1913.35	-2174.03	-184.21	1752653.83	14553721.50	40°04'24.3090"N	80°35'55.6672"W	2181.82	184.843	7.27
6088.00	25.470	236.620	5504.46	-1924.47	-2198.90	-212.93	1752625.12	14553696.64	40°04'24.0644"N	80°35'56.0381"W	2209.19	185.531	7.19
6180.00	26.640	250.170	5587.18	-1926.28	-2216.80	-248.89	1752589.18	14553678.75	40°04'23.8892"N	80°35'56.5017"W	2230.73	186.406	6.58
6272.00	29.310	261.800	5668.49	-1918.73	-2227.02	-290.62	1752547.47	14553668.53	40°04'23.7900"N	80°35'57.0390"W	2245.90	187.435	6.59
6362.00	33.140	273.080	5745.50	-1901.60	-2228.84	-337.04	1752501.06	14553666.71	40°04'23.7741"N	80°35'57.6364"W	2254.18	188.599	7.75
6453.00	36.590	285.400	5820.25	-1873.11	-2220.29	-388.11	1752450.01	14553675.26	40°04'23.8609"N	80°35'58.2927"W	2253.95	189.915	8.60
6545.00	40.570	289.390	5892.17	-1835.22	-2203.07	-442.79	1752395.35	14553692.48	40°04'24.0335"N	80°35'58.9952"W	2247.12	191.364	5.10
6636.00	45.480	294.900	5958.70	-1790.49	-2179.56	-500.19	1752337.97	14553715.98	40°04'24.2684"N	80°35'59.7321"W	2236.22	192.925	6.79
6727.00	51.250	301.760	6019.17	-1736.71	-2147.17	-559.88	1752278.31	14553748.35	40°04'24.5911"N	80°36'0.4980"W	2218.97	194.615	8.48
6818.00	56.510	307.330	6072.82	-1674.09	-2105.43	-620.30	1752217.91	14553790.07	40°04'25.0062"N	80°36'1.2728"W	2194.91	196.416	7.60
6908.00	62.870	310.210	6118.23	-1605.09	-2056.76	-680.79	1752157.44	14553838.72	40°04'25.4899"N	80°36'2.0482"W	2166.51	198.315	7.59
6999.00	68.300	310.720	6155.83	-1530.43	-2003.00	-743.81	1752094.45	14553892.47	40°04'26.0239"N	80°36'2.8556"W	2136.65	200.372	5.99
7090.00	75.090	314.700	6184.40	-1451.18	-1944.41	-807.20	1752031.09	14553951.04	40°04'26.6058"N	80°36'3.6677"W	2105.30	202.545	8.54
7180.00	80.660	315.400	6203.30	-1369.11	-1882.15	-869.33	1751968.97	14554013.27	40°04'27.2237"N	80°36'4.4634"W	2073.22	204.791	6.24
7271.00	84.080	321.840	6215.39	-1283.14	-1814.51	-928.90	1751909.43	14554080.88	40°04'27.8948"N	80°36'5.2257"W	2038.45	207.109	7.96
7362.00	87.080	329.320	6222.41	-1194.01	-1739.72	-980.13	1751858.22	14554155.64	40°04'28.6362"N	80°36'5.8804"W	1996.82	209.396	8.83
7453.00	89.780	336.980	6224.91	-1103.24	-1658.63	-1021.18	1751817.19	14554236.71	40°04'29.4393"N	80°36'6.4038"W	1947.78	211.620	8.92
7544.00	89.910	337.050	6225.16	-1012.26	-1574.85	-1056.71	1751781.67	14554320.45	40°04'30.2688"N	80°36'6.8561"W	1896.52	213.861	0.16

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
7642.00	89.820	336.040	6225.39	-914.26	-1484.95	-1095.72	1751742.67	14554410.31	40°04'31.1589"N	80°36'7.3526"W	1845.45	216.423	1.03
7738.00	89.970	336.350	6225.56	-818.26	-1397.12	-1134.47	1751703.94	14554498.11	40°04'32.0286"N	80°36'7.8460"W	1799.71	219.077	0.36
7834.00	89.880	335.680	6225.69	-722.26	-1309.41	-1173.49	1751664.93	14554585.79	40°04'32.8971"N	80°36'8.3430"W	1758.30	221.867	0.70
7931.00	89.780	336.010	6225.98	-625.26	-1220.90	-1213.18	1751625.26	14554674.26	40°04'33.7735"N	80°36'8.8485"W	1721.17	224.818	0.36
8027.00	89.820	336.310	6226.31	-529.26	-1133.09	-1251.99	1751586.47	14554762.03	40°04'34.6429"N	80°36'9.3426"W	1688.60	227.854	0.32
8124.00	90.400	335.910	6226.13	-432.26	-1044.41	-1291.27	1751547.20	14554850.69	40°04'35.5211"N	80°36'9.8428"W	1660.77	231.033	0.73
8220.00	90.400	336.180	6225.46	-336.27	-956.68	-1330.25	1751508.24	14554938.38	40°04'36.3897"N	80°36'10.3392"W	1638.53	234.277	0.28
8317.00	90.580	336.560	6224.63	-239.27	-867.81	-1369.12	1751469.38	14555027.21	40°04'37.2696"N	80°36'10.8342"W	1620.99	237.632	0.43
8414.00	90.800	335.700	6223.46	-142.28	-779.12	-1408.37	1751430.14	14555115.87	40°04'38.1478"N	80°36'11.3340"W	1609.52	241.048	0.92
8510.00	90.860	335.510	6222.07	-46.29	-691.70	-1448.02	1751390.51	14555203.26	40°04'39.0135"N	80°36'11.8390"W	1604.75	244.467	0.21
8607.00	90.920	336.210	6220.56	50.69	-603.19	-1487.68	1751350.86	14555291.73	40°04'39.8899"N	80°36'12.3442"W	1605.32	247.930	0.72
8704.00	90.550	336.300	6219.32	147.68	-514.41	-1526.74	1751311.82	14555380.48	40°04'40.7689"N	80°36'12.8415"W	1611.07	251.380	0.39
8800.00	90.680	336.040	6218.29	243.68	-426.60	-1565.52	1751273.05	14555468.26	40°04'41.6384"N	80°36'13.3354"W	1622.61	254.757	0.30
8896.00	90.460	336.140	6217.33	339.67	-338.84	-1604.43	1751234.16	14555555.98	40°04'42.5073"N	80°36'13.8309"W	1639.82	258.075	0.25
8993.00	90.490	336.340	6216.53	436.67	-250.07	-1643.51	1751195.09	14555644.72	40°04'43.3863"N	80°36'14.3286"W	1662.43	261.349	0.21
9089.00	90.460	336.260	6215.73	532.67	-162.17	-1682.10	1751156.52	14555732.59	40°04'44.2567"N	80°36'14.8199"W	1689.90	264.493	0.09
9186.00	90.490	336.650	6214.93	629.66	-73.25	-1720.84	1751117.79	14555821.47	40°04'45.1371"N	80°36'15.3133"W	1722.40	267.563	0.40
9282.00	90.520	336.500	6214.08	725.65	14.84	-1759.01	1751079.64	14555909.52	40°04'46.0092"N	80°36'15.7992"W	1759.07	270.483	0.16
9379.00	90.460	335.780	6213.25	822.65	103.54	-1798.24	1751040.42	14555998.19	40°04'46.8876"N	80°36'16.2988"W	1801.22	273.296	0.74
9475.00	90.580	336.550	6212.38	918.65	191.35	-1837.04	1751001.65	14556085.97	40°04'47.7570"N	80°36'16.7929"W	1846.97	275.947	0.81
9572.00	90.490	336.480	6211.47	1015.64	280.31	-1875.69	1750963.01	14556174.90	40°04'48.6378"N	80°36'17.2850"W	1896.52	278.500	0.12
9668.00	90.650	336.460	6210.52	1111.63	368.33	-1914.01	1750924.70	14556262.87	40°04'49.5092"N	80°36'17.7730"W	1949.13	280.893	0.17
9765.00	90.800	336.910	6209.29	1208.62	457.40	-1952.40	1750886.33	14556351.91	40°04'50.3911"N	80°36'18.2618"W	2005.26	283.185	0.49
9862.00	90.280	335.710	6208.38	1305.61	546.22	-1991.37	1750847.37	14556440.70	40°04'51.2706"N	80°36'18.7581"W	2064.93	285.339	1.35
9958.00	90.650	336.270	6207.60	1401.61	633.91	-2030.43	1750808.32	14556528.35	40°04'52.1389"N	80°36'19.2556"W	2127.09	287.339	0.70
10055.00	90.740	336.890	6206.42	1498.60	722.91	-2068.98	1750769.79	14556617.32	40°04'53.0201"N	80°36'19.7465"W	2191.64	289.260	0.65
10151.00	90.310	334.940	6205.54	1594.59	810.55	-2108.16	1750730.63	14556704.92	40°04'53.8878"N	80°36'20.2454"W	2258.61	291.031	2.08
10248.00	90.370	336.450	6204.97	1691.58	898.94	-2148.08	1750690.72	14556793.29	40°04'54.7631"N	80°36'20.7540"W	2328.59	292.709	1.56
10344.00	90.710	336.820	6204.06	1787.57	987.07	-2186.15	1750652.67	14556881.38	40°04'55.6359"N	80°36'21.2387"W	2398.66	294.300	0.52
10441.00	90.800	336.560	6202.78	1884.56	1076.14	-2224.53	1750614.30	14556970.42	40°04'56.5175"N	80°36'21.7274"W	2471.16	295.816	0.28

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
10537.00	90.740	334.980	6201.49	1980.55	1163.67	-2263.92	1750574.92	14557057.91	40°04'57.3843"N	80°36'22.2292"W	2545.48	297.204	1.65
10633.00	90.280	332.410	6200.64	2076.45	1249.72	-2306.46	1750532.40	14557143.93	40°04'58.2365"N	80°36'22.7716"W	2623.27	298.450	2.72
10730.00	90.580	330.780	6199.91	2173.14	1335.04	-2352.60	1750486.28	14557229.21	40°04'59.0816"N	80°36'23.3603"W	2705.01	299.574	1.71
10827.00	90.430	330.270	6199.06	2269.67	1419.48	-2400.33	1750438.57	14557313.62	40°04'59.9181"N	80°36'23.9695"W	2788.64	300.599	0.55
10923.00	90.430	329.930	6198.33	2365.14	1502.70	-2448.18	1750390.74	14557396.81	40°05'0.7426"N	80°36'24.5804"W	2872.58	301.542	0.35
11020.00	90.520	330.420	6197.53	2461.62	1586.85	-2496.42	1750342.52	14557480.92	40°05'1.5763"N	80°36'25.1963"W	2958.08	302.442	0.51
11116.00	90.710	330.620	6196.50	2557.15	1670.42	-2543.66	1750295.29	14557564.46	40°05'2.4041"N	80°36'25.7993"W	3043.11	303.293	0.29
11213.00	90.800	333.610	6195.22	2653.90	1756.14	-2589.02	1750249.95	14557650.14	40°05'3.2532"N	80°36'26.3780"W	3128.42	304.149	3.08
11309.00	90.770	334.420	6193.91	2749.82	1842.42	-2631.08	1750207.91	14557736.40	40°05'4.1077"N	80°36'26.9142"W	3212.02	305.002	0.84
11405.00	90.830	333.670	6192.57	2845.75	1928.73	-2673.09	1750165.92	14557822.67	40°05'4.9625"N	80°36'27.4497"W	3296.27	305.812	0.78
11502.00	90.620	335.500	6191.34	2942.70	2016.33	-2714.71	1750124.31	14557910.24	40°05'5.8300"N	80°36'27.9803"W	3381.61	306.603	1.90
11598.00	91.020	337.210	6189.96	3038.69	2104.26	-2753.21	1750085.83	14557998.13	40°05'6.7006"N	80°36'28.4706"W	3465.27	307.390	1.83
11695.00	90.550	339.890	6188.64	3135.58	2194.52	-2788.68	1750050.38	14558088.36	40°05'7.5941"N	80°36'28.9218"W	3548.61	308.201	2.80
11791.00	90.280	339.420	6187.94	3231.40	2284.53	-2822.05	1750017.01	14558178.34	40°05'8.4850"N	80°36'29.3461"W	3630.85	308.991	0.56
11888.00	90.150	339.670	6187.58	3328.22	2375.42	-2855.95	1749983.13	14558269.19	40°05'9.3846"N	80°36'29.7770"W	3714.71	309.752	0.29
11984.00	91.200	341.750	6186.44	3423.90	2466.01	-2887.66	1749951.43	14558359.75	40°05'10.2813"N	80°36'30.1799"W	3797.34	310.497	2.43
12081.00	90.680	340.120	6184.85	3520.54	2557.68	-2919.34	1749919.76	14558451.38	40°05'11.1885"N	80°36'30.5822"W	3881.27	311.222	1.76
12177.00	90.830	339.990	6183.59	3616.31	2647.91	-2952.08	1749887.03	14558541.58	40°05'12.0816"N	80°36'30.9984"W	3965.63	311.891	0.21
12274.00	90.890	339.460	6182.13	3713.10	2738.89	-2985.69	1749853.44	14558632.52	40°05'12.9822"N	80°36'31.4257"W	4051.65	312.531	0.55
12370.00	90.710	339.480	6180.79	3808.93	2828.79	-3019.35	1749819.79	14558722.38	40°05'13.8720"N	80°36'31.8537"W	4137.45	313.134	0.19
12467.00	90.680	337.600	6179.62	3905.83	2919.05	-3054.84	1749784.32	14558812.61	40°05'14.7655"N	80°36'32.3051"W	4225.27	313.698	1.94
12564.00	90.920	337.370	6178.26	4002.80	3008.65	-3091.98	1749747.19	14558902.17	40°05'15.6525"N	80°36'32.7779"W	4314.20	314.217	0.34
12660.00	90.680	336.870	6176.92	4098.77	3097.09	-3129.30	1749709.88	14558990.58	40°05'16.5281"N	80°36'33.2531"W	4402.78	314.704	0.58
12757.00	90.550	335.280	6175.88	4195.76	3185.74	-3168.63	1749670.56	14559079.20	40°05'17.4059"N	80°36'33.7541"W	4493.24	315.154	1.64
12853.00	90.550	335.400	6174.96	4291.75	3272.98	-3208.69	1749630.53	14559166.41	40°05'18.2698"N	80°36'34.2645"W	4583.46	315.568	0.12
12950.00	90.490	334.980	6174.08	4388.73	3361.03	-3249.39	1749589.84	14559254.41	40°05'19.1416"N	80°36'34.7832"W	4674.93	315.968	0.44
13046.00	90.650	335.660	6173.12	4484.72	3448.25	-3289.47	1749549.78	14559341.61	40°05'20.0053"N	80°36'35.2940"W	4765.61	316.350	0.73
13143.00	90.740	335.830	6171.95	4581.71	3536.68	-3329.31	1749509.95	14559430.00	40°05'20.8809"N	80°36'35.8017"W	4857.21	316.730	0.20
13240.00	90.710	334.920	6170.72	4678.69	3624.85	-3369.73	1749469.55	14559518.14	40°05'21.7540"N	80°36'36.3167"W	4949.21	317.089	0.94
13336.00	90.680	335.780	6169.55	4774.67	3712.10	-3409.76	1749429.53	14559605.35	40°05'22.6179"N	80°36'36.8269"W	5040.45	317.431	0.90

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
13432.00	90.800	335.680	6168.31	4870.66	3799.61	-3449.22	1749390.09	14559692.82	40°05'23.4843"N	80°36'37.3296"W	5131.68	317.767	0.16
13529.00	90.620	334.940	6167.11	4967.65	3887.73	-3489.73	1749349.59	14559780.92	40°05'24.3569"N	80°36'37.8459"W	5224.24	318.088	0.79
13625.00	90.860	335.860	6165.87	5063.63	3975.01	-3529.69	1749309.64	14559868.16	40°05'25.2212"N	80°36'38.3551"W	5315.96	318.396	0.99
13722.00	90.340	336.620	6164.86	5160.62	4063.78	-3568.77	1749270.58	14559956.90	40°05'26.1001"N	80°36'38.8530"W	5408.37	318.711	0.95
13819.00	90.520	336.830	6164.13	5257.61	4152.89	-3607.10	1749232.27	14560045.97	40°05'26.9823"N	80°36'39.3411"W	5500.69	319.023	0.29
13915.00	90.650	336.590	6163.15	5353.60	4241.06	-3645.06	1749194.33	14560134.11	40°05'27.8553"N	80°36'39.8245"W	5592.23	319.322	0.28
14011.00	90.250	336.590	6162.39	5449.60	4329.15	-3683.20	1749156.20	14560222.17	40°05'28.7275"N	80°36'40.3103"W	5683.97	319.609	0.42
14108.00	90.120	335.440	6162.08	5546.60	4417.78	-3722.63	1749116.79	14560310.75	40°05'29.6050"N	80°36'40.8126"W	5777.08	319.881	1.19
14204.00	90.770	336.420	6161.34	5642.59	4505.42	-3761.78	1749077.65	14560398.37	40°05'30.4728"N	80°36'41.3114"W	5869.40	320.140	1.22
14301.00	90.770	336.380	6160.03	5739.58	4594.30	-3800.61	1749038.84	14560487.21	40°05'31.3528"N	80°36'41.8061"W	5962.57	320.401	0.04
14397.00	90.680	336.860	6158.82	5835.57	4682.41	-3838.70	1749000.76	14560575.29	40°05'32.2251"N	80°36'42.2912"W	6054.80	320.655	0.51
14494.00	90.710	336.850	6157.64	5932.55	4771.60	-3876.82	1748962.65	14560664.44	40°05'33.1081"N	80°36'42.7768"W	6148.00	320.907	0.03
14590.00	90.520	335.840	6156.61	6028.55	4859.53	-3915.34	1748924.15	14560752.33	40°05'33.9787"N	80°36'43.2674"W	6240.58	321.141	1.07
14687.00	90.370	336.300	6155.86	6125.54	4948.19	-3954.68	1748884.82	14560840.96	40°05'34.8565"N	80°36'43.7687"W	6334.36	321.368	0.50
14783.00	90.400	336.530	6155.21	6221.54	5036.17	-3993.09	1748846.43	14560928.90	40°05'35.7276"N	80°36'44.2580"W	6427.11	321.590	0.24
14880.00	90.280	336.380	6154.64	6318.54	5125.09	-4031.84	1748807.69	14561017.79	40°05'36.6080"N	80°36'44.7515"W	6520.91	321.808	0.20
14977.00	90.620	336.710	6153.87	6415.53	5214.07	-4070.45	1748769.10	14561106.74	40°05'37.4890"N	80°36'45.2433"W	6614.76	322.022	0.49
15073.00	90.710	336.570	6152.76	6511.52	5302.20	-4108.51	1748731.05	14561194.83	40°05'38.3615"N	80°36'45.7281"W	6707.69	322.229	0.17
15170.00	90.550	336.860	6151.69	6608.51	5391.29	-4146.85	1748692.73	14561283.89	40°05'39.2436"N	80°36'46.2165"W	6801.65	322.433	0.34
15266.00	90.800	336.640	6150.56	6704.50	5479.49	-4184.74	1748654.85	14561372.05	40°05'40.1168"N	80°36'46.6991"W	6894.70	322.631	0.35
15363.00	90.580	336.610	6149.39	6801.49	5568.52	-4223.23	1748616.38	14561461.05	40°05'40.9983"N	80°36'47.1893"W	6988.85	322.823	0.23
15459.00	90.800	336.740	6148.24	6897.47	5656.67	-4261.23	1748578.39	14561549.17	40°05'41.8710"N	80°36'47.6734"W	7082.09	323.009	0.27
15556.00	90.800	336.660	6146.88	6994.46	5745.75	-4299.60	1748540.04	14561638.21	40°05'42.7529"N	80°36'48.1621"W	7176.36	323.192	0.08
15653.00	90.370	335.980	6145.89	7091.45	5834.58	-4338.55	1748501.10	14561727.00	40°05'43.6324"N	80°36'48.6584"W	7270.85	323.366	0.83
15749.00	90.830	336.630	6144.89	7187.45	5922.48	-4377.13	1748462.54	14561814.87	40°05'44.5027"N	80°36'49.1499"W	7364.44	323.533	0.83
15846.00	90.280	336.440	6143.95	7284.44	6011.45	-4415.75	1748423.93	14561903.81	40°05'45.3836"N	80°36'49.6419"W	7458.98	323.701	0.60
15942.00	91.320	336.410	6142.61	7380.43	6099.43	-4454.14	1748385.55	14561991.76	40°05'46.2547"N	80°36'50.1310"W	7552.64	323.861	1.08
16039.00	90.830	336.420	6140.79	7477.41	6188.31	-4492.95	1748346.76	14562080.60	40°05'47.1347"N	80°36'50.6253"W	7647.34	324.019	0.51
16136.00	90.980	335.910	6139.26	7574.40	6277.03	-4532.14	1748307.59	14562169.28	40°05'48.0130"N	80°36'51.1247"W	7742.18	324.170	0.55
16232.00	91.350	336.800	6137.31	7670.37	6364.95	-4570.64	1748269.11	14562257.17	40°05'48.8835"N	80°36'51.6151"W	7836.02	324.318	1.00

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	4706900341000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
16329.00	91.140	336.520	6135.20	7767.35	6453.99	-4609.06	1748230.70	14562346.18	40°05'49.7651"N	80°36'52.1045"W	7930.79	324.468	0.36
16425.00	91.260	336.650	6133.19	7863.32	6542.06	-4647.20	1748192.57	14562434.22	40°05'50.6371"N	80°36'52.5904"W	8024.65	324.612	0.18
16522.00	90.770	337.080	6131.47	7960.30	6631.25	-4685.30	1748154.48	14562523.37	40°05'51.5200"N	80°36'53.0758"W	8119.45	324.757	0.67
16618.00	90.800	337.210	6130.15	8056.27	6719.70	-4722.58	1748117.22	14562611.79	40°05'52.3958"N	80°36'53.5506"W	8213.23	324.901	0.14
16715.00	91.390	336.110	6128.30	8153.25	6808.75	-4761.01	1748078.81	14562700.80	40°05'53.2773"N	80°36'54.0401"W	8308.20	325.037	1.29
16812.00	91.080	336.670	6126.21	8250.23	6897.61	-4799.85	1748039.98	14562789.62	40°05'54.1571"N	80°36'54.5349"W	8403.30	325.167	0.66
16909.00	91.080	336.850	6124.38	8347.20	6986.72	-4838.12	1748001.73	14562878.70	40°05'55.0394"N	80°36'55.0224"W	8498.33	325.298	0.19
17005.00	91.080	336.640	6122.57	8443.18	7074.91	-4876.01	1747963.85	14562966.85	40°05'55.9125"N	80°36'55.5051"W	8592.43	325.425	0.22
17102.00	91.050	336.430	6120.77	8540.16	7163.87	-4914.63	1747925.25	14563055.78	40°05'56.7932"N	80°36'55.9971"W	8687.61	325.549	0.22
17199.00	90.990	336.440	6119.04	8637.14	7252.77	-4953.40	1747886.49	14563144.65	40°05'57.6734"N	80°36'56.4911"W	8782.87	325.668	0.06
17296.00	91.200	336.990	6117.19	8734.12	7341.85	-4991.74	1747848.16	14563233.69	40°05'58.5553"N	80°36'56.9795"W	8878.07	325.788	0.61
17392.00	91.140	337.000	6115.23	8830.09	7430.20	-5029.25	1747810.67	14563322.01	40°05'59.4300"N	80°36'57.4573"W	8972.24	325.907	0.06
17489.00	91.020	336.560	6113.40	8927.07	7519.32	-5067.49	1747772.45	14563411.10	40°06'0.3124"N	80°36'57.9444"W	9067.50	326.023	0.47
17586.00	90.860	336.200	6111.81	9024.05	7608.18	-5106.35	1747733.60	14563499.93	40°06'1.1922"N	80°36'58.4395"W	9162.93	326.132	0.41
17683.00	91.260	336.660	6110.01	9121.03	7697.08	-5145.13	1747694.84	14563588.78	40°06'2.0723"N	80°36'58.9336"W	9258.36	326.239	0.63
17779.00	91.660	338.050	6107.57	9216.98	7785.64	-5182.08	1747657.90	14563677.32	40°06'2.9491"N	80°36'59.4042"W	9352.55	326.353	1.51
17876.00	91.320	337.250	6105.05	9313.91	7875.33	-5218.95	1747621.04	14563766.96	40°06'3.8369"N	80°36'59.8737"W	9447.65	326.468	0.90
17972.00	91.170	335.760	6102.96	9409.88	7963.34	-5257.21	1747582.80	14563854.95	40°06'4.7083"N	80°37'0.3612"W	9542.17	326.568	1.56
18069.00	91.350	335.570	6100.83	9506.85	8051.70	-5297.17	1747542.85	14563943.27	40°06'5.5832"N	80°37'0.8705"W	9637.94	326.659	0.27
18166.00	91.350	335.660	6098.54	9603.82	8140.03	-5337.21	1747502.83	14564031.56	40°06'6.4577"N	80°37'1.3808"W	9733.75	326.748	0.09
18262.00	91.450	335.340	6096.20	9699.79	8227.36	-5377.01	1747463.05	14564118.86	40°06'7.3224"N	80°37'1.8882"W	9828.61	326.833	0.35
18359.00	91.540	335.820	6093.66	9796.75	8315.65	-5417.10	1747422.97	14564207.12	40°06'8.1966"N	80°37'2.3992"W	9924.46	326.918	0.50
18455.00	91.630	335.750	6091.01	9892.71	8403.17	-5456.46	1747383.63	14564294.60	40°06'9.0632"N	80°37'2.9008"W	10019.29	327.003	0.12
18552.00	91.450	335.560	6088.40	9989.67	8491.51	-5496.43	1747343.67	14564382.91	40°06'9.9379"N	80°37'3.4103"W	10115.16	327.086	0.27
18648.00	91.510	335.750	6085.92	10085.64	8578.94	-5535.99	1747304.13	14564470.31	40°06'10.8036"N	80°37'3.9146"W	10210.07	327.166	0.21
18745.00	91.260	335.970	6083.58	10182.61	8667.44	-5575.65	1747264.48	14564558.77	40°06'11.6797"N	80°37'4.4201"W	10305.93	327.247	0.34
18841.00	91.200	335.660	6081.52	10278.59	8754.99	-5614.97	1747225.18	14564646.29	40°06'12.5466"N	80°37'4.9212"W	10400.85	327.326	0.33
18938.00	91.290	335.620	6079.41	10375.56	8843.33	-5654.97	1747185.19	14564734.60	40°06'13.4213"N	80°37'5.4311"W	10496.82	327.403	0.10
19035.00	91.390	335.320	6077.14	10472.53	8931.55	-5695.23	1747144.95	14564822.78	40°06'14.2948"N	80°37'5.9444"W	10592.84	327.476	0.33
19131.00	91.200	335.580	6074.97	10568.50	9018.85	-5735.10	1747105.09	14564910.05	40°06'15.1592"N	80°37'6.4527"W	10687.90	327.548	0.34

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
19228.00	91.080	335.430	6073.04	10665.47	9107.11	-5775.31	1747064.89	14564998.27	40°06'16.0330"N	80°37'6.9653"W	10783.95	327.619	0.20
19325.00	91.260	335.220	6071.06	10762.44	9195.23	-5815.80	1747024.42	14565086.36	40°06'16.9056"N	80°37'7.4815"W	10880.06	327.687	0.29
19421.00	91.320	335.430	6068.90	10858.41	9282.44	-5855.87	1746984.37	14565173.53	40°06'17.7692"N	80°37'7.9923"W	10975.19	327.754	0.23
19518.00	91.480	335.690	6066.53	10955.37	9370.72	-5895.99	1746944.27	14565261.78	40°06'18.6433"N	80°37'8.5038"W	11071.28	327.822	0.31
19615.00	91.450	335.760	6064.05	11052.34	9459.12	-5935.85	1746904.42	14565350.14	40°06'19.5185"N	80°37'9.0119"W	11167.33	327.891	0.08
19711.00	91.260	335.770	6061.78	11148.31	9546.63	-5975.25	1746865.04	14565437.62	40°06'20.3850"N	80°37'9.5141"W	11262.41	327.958	0.20
19808.00	91.140	335.380	6059.75	11245.29	9634.93	-6015.35	1746824.95	14565525.89	40°06'21.2592"N	80°37'10.0253"W	11358.54	328.022	0.42
19905.00	91.140	335.140	6057.82	11342.26	9723.01	-6055.94	1746784.38	14565613.93	40°06'22.1314"N	80°37'10.5428"W	11454.75	328.083	0.25
20001.00	91.260	335.840	6055.81	11438.23	9810.34	-6095.75	1746744.58	14565701.23	40°06'22.9960"N	80°37'11.0504"W	11549.93	328.145	0.74
20098.00	91.290	335.550	6053.65	11535.20	9898.72	-6135.67	1746704.68	14565789.58	40°06'23.8711"N	80°37'11.5592"W	11646.08	328.208	0.30
20194.00	91.420	335.900	6051.38	11631.17	9986.21	-6175.12	1746665.24	14565877.03	40°06'24.7373"N	80°37'12.0622"W	11741.23	328.269	0.39
20291.00	91.290	335.720	6049.09	11728.14	10074.67	-6214.86	1746625.52	14565965.45	40°06'25.6132"N	80°37'12.5687"W	11837.37	328.330	0.23
20387.00	91.420	336.080	6046.82	11824.12	10162.27	-6254.05	1746586.35	14566053.03	40°06'26.4805"N	80°37'13.0682"W	11932.52	328.391	0.40
20484.00	91.290	335.820	6044.52	11921.09	10250.83	-6293.57	1746546.84	14566141.55	40°06'27.3573"N	80°37'13.5720"W	12028.65	328.452	0.30
20580.00	91.080	335.290	6042.54	12017.06	10338.20	-6333.29	1746507.14	14566228.89	40°06'28.2224"N	80°37'14.0784"W	12123.90	328.508	0.59
20677.00	91.170	334.880	6040.63	12114.03	10426.16	-6374.14	1746466.30	14566316.81	40°06'29.0933"N	80°37'14.5993"W	12220.25	328.560	0.43
20773.00	91.170	335.230	6038.67	12209.99	10513.19	-6414.62	1746425.84	14566403.80	40°06'29.9550"N	80°37'15.1155"W	12315.62	328.611	0.36
20870.00	91.230	335.140	6036.64	12306.96	10601.21	-6455.32	1746385.15	14566491.79	40°06'30.8266"N	80°37'15.6345"W	12411.96	328.662	0.11
20966.00	91.230	335.820	6034.58	12402.93	10688.53	-6495.15	1746345.33	14566579.08	40°06'31.6912"N	80°37'16.1423"W	12507.27	328.714	0.71
21063.00	91.110	335.100	6032.60	12499.90	10776.75	-6535.43	1746305.07	14566667.27	40°06'32.5647"N	80°37'16.6559"W	12603.58	328.766	0.75
21160.00	91.320	335.360	6030.54	12596.87	10864.81	-6576.06	1746264.46	14566755.29	40°06'33.4366"N	80°37'17.1740"W	12699.95	328.815	0.34
21256.00	91.420	335.960	6028.25	12692.84	10952.25	-6615.62	1746224.92	14566842.69	40°06'34.3024"N	80°37'17.6783"W	12795.24	328.866	0.63
21352.00	91.260	335.480	6026.00	12788.81	11039.73	-6655.08	1746185.47	14566930.15	40°06'35.1685"N	80°37'18.1814"W	12890.53	328.917	0.53
21449.00	91.350	335.450	6023.79	12885.78	11127.95	-6695.35	1746145.21	14567018.33	40°06'36.0420"N	80°37'18.6948"W	12986.88	328.966	0.10
21546.00	91.320	335.690	6021.53	12982.74	11216.24	-6735.46	1746105.12	14567106.59	40°06'36.9162"N	80°37'19.2062"W	13083.21	329.015	0.25
21642.00	91.420	335.290	6019.24	13078.71	11303.57	-6775.27	1746065.32	14567193.88	40°06'37.7808"N	80°37'19.7138"W	13178.58	329.062	0.43
21738.00	91.350	335.470	6016.92	13174.67	11390.81	-6815.25	1746025.36	14567281.09	40°06'38.6447"N	80°37'20.2236"W	13273.97	329.107	0.20
21835.00	91.420	335.520	6014.57	13271.64	11479.05	-6855.47	1745985.15	14567369.29	40°06'39.5183"N	80°37'20.7365"W	13370.35	329.154	0.09
21932.00	91.260	335.530	6012.31	13368.61	11567.31	-6895.65	1745944.99	14567457.52	40°06'40.3922"N	80°37'21.2487"W	13466.72	329.199	0.17
22028.00	91.260	335.440	6010.19	13464.58	11654.64	-6935.47	1745905.18	14567544.81	40°06'41.2568"N	80°37'21.7565"W	13562.13	329.244	0.09

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

WELLPATH DATA (266 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]
22125.00	91.290	335.160	6008.04	13561.55	11742.74	-6976.00	1745864.68	14567632.88	40°06'42.1292"N	80°37'22.2733"W	13658.57	329.287	0.29
22221.00	90.740	335.200	6006.34	13657.52	11829.86	-7016.29	1745824.40	14567719.96	40°06'42.9918"N	80°37'22.7871"W	13754.05	329.328	0.57
22318.00	91.200	335.830	6004.69	13754.50	11918.12	-7056.48	1745784.22	14567808.19	40°06'43.8657"N	80°37'23.2996"W	13850.47	329.371	0.80
22414.00	91.080	335.250	6002.78	13850.47	12005.49	-7096.23	1745744.49	14567895.53	40°06'44.7307"N	80°37'23.8063"W	13945.90	329.413	0.62
22511.00	90.890	335.320	6001.12	13947.45	12093.59	-7136.78	1745703.96	14567983.59	40°06'45.6030"N	80°37'24.3235"W	14042.38	329.454	0.21
22607.00	91.260	336.670	5999.31	14043.43	12181.27	-7175.82	1745664.93	14568071.24	40°06'46.4711"N	80°37'24.8212"W	14137.74	329.498	1.46
22704.00	90.800	336.460	5997.57	14140.41	12270.25	-7214.39	1745626.37	14568160.19	40°06'47.3521"N	80°37'25.3128"W	14233.99	329.546	0.52
22800.00	90.830	336.460	5996.21	14236.40	12358.25	-7252.73	1745588.05	14568248.16	40°06'48.2233"N	80°37'25.8015"W	14329.29	329.592	0.03
22897.00	90.890	336.810	5994.75	14333.38	12447.29	-7291.20	1745549.60	14568337.16	40°06'49.1048"N	80°37'26.2917"W	14425.55	329.640	0.37
22993.00	91.170	336.510	5993.02	14429.36	12535.42	-7329.22	1745511.59	14568425.25	40°06'49.9773"N	80°37'26.7764"W	14520.82	329.686	0.43
23090.00	90.860	336.430	5991.31	14526.35	12624.34	-7367.94	1745472.88	14568514.14	40°06'50.8576"N	80°37'27.2699"W	14617.13	329.731	0.33
23186.00	90.890	336.340	5989.84	14622.33	12712.29	-7406.39	1745434.45	14568602.05	40°06'51.7283"N	80°37'27.7600"W	14712.48	329.774	0.10
23283.00	91.080	336.800	5988.17	14719.32	12801.28	-7444.96	1745395.90	14568691.01	40°06'52.6093"N	80°37'28.2515"W	14808.79	329.819	0.51
23380.00	90.830	336.280	5986.56	14816.30	12890.25	-7483.57	1745357.30	14568779.94	40°06'53.4901"N	80°37'28.7437"W	14905.11	329.862	0.59
23477.00	90.920	335.960	5985.07	14913.29	12978.93	-7522.83	1745318.05	14568868.59	40°06'54.3682"N	80°37'29.2442"W	15001.53	329.903	0.34
23573.00	90.920	336.720	5983.53	15009.27	13066.85	-7561.35	1745279.55	14568956.48	40°06'55.2386"N	80°37'29.7352"W	15096.91	329.943	0.79
23669.00	90.950	336.330	5981.97	15105.26	13154.90	-7599.59	1745241.33	14569044.49	40°06'56.1102"N	80°37'30.2226"W	15192.27	329.985	0.41
23765.00	90.890	336.310	5980.42	15201.25	13242.80	-7638.14	1745202.79	14569132.36	40°06'56.9805"N	80°37'30.7140"W	15287.67	330.025	0.07
23862.00	91.080	336.860	5978.76	15298.23	13331.80	-7676.68	1745164.26	14569221.32	40°06'57.8616"N	80°37'31.2053"W	15384.03	330.066	0.60
23958.00	90.830	336.740	5977.16	15394.21	13420.02	-7714.49	1745126.46	14569309.51	40°06'58.7350"N	80°37'31.6872"W	15479.36	330.108	0.29
24055.00	91.050	336.490	5975.57	15491.19	13509.04	-7752.99	1745087.99	14569398.50	40°06'59.6163"N	80°37'32.1779"W	15575.72	330.148	0.34
24151.00	91.020	336.660	5973.83	15587.17	13597.12	-7791.15	1745049.84	14569486.54	40°07'0.4883"N	80°37'32.6643"W	15671.11	330.187	0.18
24248.00	90.980	336.580	5972.14	15684.15	13686.14	-7829.63	1745011.37	14569575.53	40°07'1.3696"N	80°37'33.1548"W	15767.49	330.227	0.09
24343.00	90.800	336.690	5970.66	15779.14	13773.34	-7867.31	1744973.71	14569662.69	40°07'2.2329"N	80°37'33.6350"W	15861.88	330.265	0.22
24440.00	90.980	336.770	5969.16	15876.12	13862.44	-7905.62	1744935.41	14569751.76	40°07'3.1149"N	80°37'34.1234"W	15958.26	330.304	0.20
24465.00‡	90.980	336.770	5968.73	15901.12	13885.41	-7915.48	1744925.56	14569774.72	40°07'3.3423"N	80°37'34.2490"W	15983.10	330.314	0.00

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 201H
Field	Ohio	API	47069003410000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 201H AWB
Slot	201H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
OCC A OHI 201H BHL Rev 7	5943.00	13889.68	-7907.47	1744933.56	14569778.99	40°07'3.3842"N	80°37'34.1457"W	point
OCC A OHI 201H LP Rev-8	6224.00	-1676.47	-1016.76	1751821.61	14554218.87	40°04'29.2629"N	80°36'6.3479"W	point

WELLPATH COMPOSITION - Ref Wellbore: OCC A OHI 201H AWB Ref Wellpath: OCC A OHI 201H awp 50' - 24440' Proj: 24465'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	486.00	Gyrodatta 2015 - GC+WIR+DPIPE	1 Imported Gyro 50' - 486'	OCC A OHI 201H AWB	8/19/2022
486.00	1897.00	OWSG MWD rev2 + HRGM	2 Tally MWD 598' - 1897'	OCC A OHI 201H AWB	8/19/2022
1897.00	5088.00	OWSG MWD rev2 + HRGM	3 Tally MWD 1987' - 5088'	OCC A OHI 201H AWB	8/19/2022
5088.00	24465.00	BH AutoTrak Curve/eXpress (2019) (Standard)	4 BH MWD 5182' - 24440'	OCC A OHI 201H AWB	8/19/2022