

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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	9/13/2022 at 3:24:54 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	-41.81	1.57	1752838.47	14555880.96	40°04'45.6490"N	80°35'53.1657"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 (RKB) to Facility Vertical Datum	1121.20ft
Horizontal Reference Pt	Slot	SDC 40 (RKB) to Mean Sea Level	1121.20ft
Vertical Reference Pt	SDC 40 (RKB)	SDC 40 (RKB) to Ground Level at Slot (Slot 401H)	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	336.12°

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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]	Comments
0.00†	0.000	141.300	0.00	0.00	0.00	0.00	1752838.47	14555880.96	40°04'45.6490"N	80°35'53.1657"W	0.00	0.000	0.00	
26.00	0.000	141.300	26.00	0.00	0.00	0.00	1752838.47	14555880.96	40°04'45.6490"N	80°35'53.1657"W	0.00	0.000	0.00	
161.00	0.340	141.300	161.00	-0.39	-0.31	0.25	1752838.72	14555880.65	40°04'45.6459"N	80°35'53.1625"W	0.40	141.300	0.25	1 Tally MWD 161' - 496'
235.00	0.460	163.730	235.00	-0.89	-0.77	0.47	1752838.94	14555880.19	40°04'45.6413"N	80°35'53.1597"W	0.90	148.520	0.26	
325.00	0.230	129.630	325.00	-1.41	-1.23	0.71	1752839.18	14555879.73	40°04'45.6368"N	80°35'53.1567"W	1.42	149.983	0.33	
416.00	0.270	204.420	416.00	-1.72	-1.54	0.76	1752839.24	14555879.42	40°04'45.6337"N	80°35'53.1560"W	1.72	153.677	0.34	
496.00	0.350	188.090	496.00	-2.05	-1.96	0.65	1752839.12	14555879.01	40°04'45.6296"N	80°35'53.1575"W	2.06	161.595	0.15	
595.00	0.320	185.720	595.00	-2.55	-2.53	0.58	1752839.05	14555878.43	40°04'45.6239"N	80°35'53.1584"W	2.60	167.073	0.03	2 Tally MWD 595' - 1843'
686.00	1.130	155.750	686.00	-3.67	-3.60	0.92	1752839.40	14555877.36	40°04'45.6133"N	80°35'53.1541"W	3.72	165.610	0.95	
776.00	2.820	137.660	776.00	-6.66	-6.05	2.78	1752841.25	14555874.92	40°04'45.5891"N	80°35'53.1303"W	6.66	155.313	1.98	
868.00	4.340	143.040	868.00	-12.19	-10.50	6.40	1752844.87	14555870.46	40°04'45.5449"N	80°35'53.0841"W	12.30	148.653	1.69	
960.00	4.980	153.610	960.00	-19.57	-16.86	10.27	1752848.73	14555864.11	40°04'45.4819"N	80°35'53.0347"W	19.74	148.666	1.16	
1050.00	6.350	172.980	1050.00	-28.24	-25.30	12.61	1752851.08	14555855.67	40°04'45.3984"N	80°35'53.0050"W	28.27	153.508	2.59	
1141.00	7.130	191.790	1141.00	-37.65	-35.83	12.07	1752850.54	14555845.15	40°04'45.2944"N	80°35'53.0125"W	37.80	161.379	2.56	
1234.00	8.450	193.650	1234.00	-47.75	-48.12	9.28	1752847.75	14555832.86	40°04'45.1731"N	80°35'53.0492"W	49.00	169.084	1.44	
1324.00	10.890	192.420	1324.00	-59.85	-62.85	5.89	1752844.36	14555818.14	40°04'45.0276"N	80°35'53.0936"W	63.12	174.646	2.72	
1415.00	11.980	195.500	1415.00	-74.08	-80.34	1.52	1752839.99	14555806.65	40°04'44.8549"N	80°35'53.1509"W	80.36	178.918	1.37	
1506.00	11.800	199.980	1506.00	-88.09	-98.19	-4.19	1752834.29	14555782.81	40°04'44.6788"N	80°35'53.2253"W	98.28	182.441	1.03	
1596.00	12.970	205.340	1596.00	-101.32	-115.97	-11.65	1752826.82	14555765.04	40°04'44.5035"N	80°35'53.3224"W	116.55	185.739	1.82	
1687.00	14.580	207.670	1687.00	-115.12	-135.34	-21.34	1752817.14	14555745.67	40°04'44.3125"N	80°35'53.4482"W	137.01	188.962	1.87	
1778.00	16.630	208.590	1778.00	-130.17	-156.92	-32.90	1752805.59	14555724.10	40°04'44.0997"N	80°35'53.5980"W	160.33	191.839	2.27	
1843.00	17.950	207.130	1843.00	-142.14	-174.00	-41.91	1752796.57	14555707.03	40°04'43.9313"N	80°35'53.7151"W	178.98	193.544	2.14	
1921.00	18.730	204.600	1921.00	-158.00	-196.09	-52.61	1752785.88	14555684.95	40°04'43.7135"N	80°35'53.8539"W	203.02	195.018	1.43	3 Tally MWD 1921' - 5808'
1984.00	19.500	203.520	1984.00	-171.83	-214.93	-61.02	1752777.48	14555666.12	40°04'43.5278"N	80°35'53.9632"W	223.42	195.849	1.34	
2074.00	22.160	200.820	2074.00	-194.06	-244.57	-73.05	1752765.45	14555636.49	40°04'43.2353"N	80°35'54.1196"W	255.25	196.629	3.14	
2165.00	24.840	199.490	2165.00	-220.16	-278.64	-85.53	1752752.98	14555602.43	40°04'42.8992"N	80°35'54.2822"W	291.47	197.063	3.00	
2255.00	28.520	199.270	2255.00	-249.59	-316.75	-98.93	1752739.58	14555564.33	40°04'42.5232"N	80°35'54.4568"W	331.84	197.345	4.09	
2346.00	32.770	198.900	2346.00	-283.53	-360.58	-114.08	1752724.43	14555520.52	40°04'42.0907"N	80°35'54.6543"W	378.20	197.556	4.67	
2438.00	36.090	199.420	2438.00	-321.54	-409.71	-131.16	1752707.36	14555471.41	40°04'41.6061"N	80°35'54.8768"W	430.19	197.752	3.62	
2529.00	39.050	199.990	2529.00	-361.72	-461.93	-149.88	1752688.65	14555419.21	40°04'41.0908"N	80°35'55.1206"W	485.64	197.976	3.28	

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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]	Comments
2620.00	39.550	201.560	2502.69	-402.71	-515.82	-170.32	1752668.22	14555365.34	40°04'40.5592"N	80°35'55.3868"W	543.21	198.273	1.22	
2712.00	37.900	203.100	2574.47	-442.55	-569.06	-192.17	1752646.37	14555312.13	40°04'40.0341"N	80°35'55.6710"W	600.63	198.660	2.08	
2804.00	36.890	204.820	2647.56	-480.05	-620.11	-214.85	1752623.70	14555261.09	40°04'39.5305"N	80°35'55.9657"W	656.28	199.110	1.58	
2897.00	34.710	204.870	2722.98	-515.94	-669.48	-237.71	1752600.86	14555211.75	40°04'39.0437"N	80°35'56.2625"W	710.42	199.548	2.34	
2988.00	35.290	203.320	2797.53	-550.88	-717.12	-259.01	1752579.56	14555164.12	40°04'38.5738"N	80°35'56.5393"W	762.46	199.859	1.17	
3078.00	35.360	201.930	2870.96	-586.70	-765.15	-279.03	1752559.55	14555116.10	40°04'38.1001"N	80°35'56.7996"W	814.44	200.035	0.90	
3169.00	35.570	202.910	2945.07	-623.17	-813.96	-299.17	1752539.42	14555067.32	40°04'37.6187"N	80°35'57.0615"W	867.20	200.181	0.67	
3262.00	36.810	201.700	3020.13	-661.19	-864.76	-320.00	1752518.60	14555016.53	40°04'37.1175"N	80°35'57.3324"W	922.07	200.307	1.54	
3353.00	38.300	202.570	3092.27	-699.71	-916.14	-340.90	1752497.70	14554965.18	40°04'36.6108"N	80°35'57.6043"W	977.51	200.411	1.74	
3444.00	38.510	204.600	3163.58	-737.92	-967.94	-363.52	1752475.09	14554913.40	40°04'36.0999"N	80°35'57.8983"W	1033.95	200.584	1.40	
3534.00	37.640	206.130	3234.43	-774.15	-1018.09	-387.29	1752451.33	14554863.27	40°04'35.6054"N	80°35'58.2069"W	1089.27	200.827	1.43	
3626.00	36.430	204.520	3307.88	-810.35	-1068.17	-411.00	1752427.63	14554813.21	40°04'35.1115"N	80°35'58.5148"W	1144.51	201.045	1.69	
3717.00	35.450	203.410	3381.55	-846.19	-1116.97	-432.70	1752405.94	14554764.43	40°04'34.6302"N	80°35'58.7968"W	1197.85	201.176	1.29	
3808.00	35.330	203.630	3455.74	-881.86	-1165.29	-453.73	1752384.92	14554716.12	40°04'34.1536"N	80°35'59.0701"W	1250.51	201.274	0.19	
3898.00	35.930	202.690	3528.89	-917.59	-1213.50	-474.35	1752364.31	14554667.94	40°04'33.6782"N	80°35'59.3381"W	1302.91	201.350	0.90	
3992.00	37.030	203.660	3604.47	-955.66	-1264.87	-496.35	1752342.32	14554616.58	40°04'33.1715"N	80°35'59.6241"W	1358.77	201.425	1.32	
4082.00	37.440	202.820	3676.13	-992.72	-1314.91	-517.83	1752320.84	14554566.56	40°04'32.6780"N	80°35'59.9034"W	1413.20	201.495	0.73	
4173.00	37.420	203.000	3748.39	-1030.58	-1365.85	-539.36	1752299.32	14554515.64	40°04'32.1755"N	80°36'0.1833"W	1468.49	201.549	0.12	
4264.00	37.670	202.120	3820.54	-1068.80	-1417.06	-560.64	1752278.05	14554464.45	40°04'31.6704"N	80°36'0.4599"W	1523.94	201.585	0.65	
4356.00	36.690	203.030	3893.84	-1107.10	-1468.40	-581.97	1752256.72	14554413.13	40°04'31.1640"N	80°36'0.7374"W	1579.52	201.620	1.22	
4446.00	36.080	202.970	3966.29	-1143.60	-1517.55	-602.83	1752235.87	14554364.00	40°04'30.6793"N	80°36'1.0085"W	1632.90	201.665	0.68	
4537.00	36.080	203.700	4039.84	-1180.00	-1566.75	-624.06	1752214.65	14554314.82	40°04'30.1939"N	80°36'1.2844"W	1686.47	201.718	0.47	
4627.00	36.070	203.250	4112.58	-1215.90	-1615.36	-645.17	1752193.55	14554266.23	40°04'29.7145"N	80°36'1.5588"W	1739.44	201.772	0.29	
4719.00	36.240	201.670	4186.87	-1253.37	-1665.52	-665.91	1752172.82	14554216.09	40°04'29.2198"N	80°36'1.8284"W	1793.71	201.792	1.03	
4810.00	36.810	201.550	4259.99	-1291.34	-1715.87	-685.85	1752152.89	14554165.75	40°04'28.7231"N	80°36'2.0879"W	1847.87	201.787	0.63	
4903.00	34.320	200.920	4335.64	-1329.50	-1766.28	-705.45	1752133.30	14554115.36	40°04'28.2258"N	80°36'2.3429"W	1901.95	201.772	2.71	
4993.00	34.140	200.820	4410.05	-1365.45	-1813.59	-723.49	1752115.27	14554068.08	40°04'27.7591"N	80°36'2.5776"W	1952.57	201.748	0.21	
5084.00	34.790	201.260	4485.08	-1401.92	-1861.65	-741.98	1752096.78	14554020.03	40°04'27.2850"N	80°36'2.8183"W	2004.06	201.730	0.76	
5174.00	36.550	204.230	4558.20	-1437.93	-1910.02	-762.29	1752076.48	14553971.68	40°04'26.8078"N	80°36'3.0823"W	2056.52	201.757	2.74	
5265.00	37.040	204.160	4631.07	-1474.34	-1959.74	-784.63	1752054.15	14553921.98	40°04'26.3175"N	80°36'3.3725"W	2110.98	201.820	0.54	

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5357.00	37.670	203.910	4704.20	-1511.76	-2010.72	-807.36	1752031.42	14553871.02	40°04'25.8147"N	80°36'3.6679"W	2166.76	201.877	0.70	
5447.00	38.280	203.300	4775.14	-1549.18	-2061.47	-829.53	1752009.26	14553820.29	40°04'25.3142"N	80°36'3.9561"W	2222.11	201.920	0.80	
5538.00	38.300	201.930	4846.57	-1588.00	-2113.52	-851.21	1751987.59	14553768.26	40°04'24.8008"N	80°36'4.2380"W	2278.49	201.937	0.93	
5629.00	38.300	201.000	4917.98	-1627.64	-2166.00	-871.85	1751966.96	14553715.80	40°04'24.2831"N	80°36'4.5065"W	2334.89	201.926	0.63	
5720.00	37.320	202.320	4989.88	-1666.71	-2217.85	-892.44	1751946.38	14553663.97	40°04'23.7716"N	80°36'4.7742"W	2390.67	201.919	1.40	
5808.00	36.540	202.790	5060.22	-1703.15	-2266.68	-912.71	1751926.11	14553615.16	40°04'23.2900"N	80°36'5.0379"W	2443.54	201.933	0.94	
5905.00	34.840	202.510	5139.00	-1742.08	-2318.90	-934.51	1751904.32	14553562.96	40°04'22.7749"N	80°36'5.3212"W	2500.12	201.949	1.76	4 BH MWD 5905' - 24898'
5997.00	35.390	203.280	5214.26	-1778.32	-2367.65	-955.10	1751883.74	14553514.23	40°04'22.2940"N	80°36'5.5889"W	2553.04	201.969	0.77	
6088.00	35.530	206.870	5288.39	-1812.97	-2415.45	-977.47	1751861.38	14553466.45	40°04'21.8227"N	80°36'5.8794"W	2605.73	202.032	2.29	
6179.00	30.960	217.030	5364.53	-1841.12	-2457.78	-1003.55	1751835.31	14553424.14	40°04'21.4056"N	80°36'6.2173"W	2654.77	202.211	7.90	
6270.00	28.760	228.150	5443.51	-1859.27	-2491.10	-1033.98	1751804.89	14553390.83	40°04'21.0776"N	80°36'6.6107"W	2697.16	202.542	6.54	
6361.00	28.550	241.680	5523.45	-1867.72	-2516.05	-1069.47	1751769.42	14553365.89	40°04'20.8326"N	80°36'7.0686"W	2733.91	203.028	7.12	
6451.00	27.350	255.790	5603.04	-1865.91	-2531.34	-1108.49	1751730.42	14553350.60	40°04'20.6832"N	80°36'7.5714"W	2763.41	203.649	7.45	
6543.00	30.270	265.610	5683.69	-1854.61	-2538.31	-1152.13	1751686.79	14553343.63	40°04'20.6163"N	80°36'8.1331"W	2787.55	204.413	6.03	
6633.00	32.150	275.830	5760.71	-1835.16	-2537.61	-1198.60	1751640.33	14553344.33	40°04'20.6252"N	80°36'8.7309"W	2806.45	205.283	6.24	
6725.00	36.270	278.720	5836.78	-1808.36	-2531.00	-1249.88	1751589.08	14553350.94	40°04'20.6928"N	80°36'9.3901"W	2822.79	206.281	4.81	
6816.00	39.960	290.760	5908.47	-1773.26	-2516.54	-1303.90	1751535.07	14553365.40	40°04'20.8382"N	80°36'10.0842"W	2834.28	207.390	9.10	
6908.00	44.880	304.500	5976.51	-1724.72	-2487.60	-1358.43	1751480.57	14553394.33	40°04'21.1265"N	80°36'10.7839"W	2834.34	208.638	11.38	
6998.00	49.920	310.290	6037.44	-1666.63	-2447.30	-1410.92	1751428.10	14553434.61	40°04'21.5270"N	80°36'11.4568"W	2824.89	209.964	7.33	
7090.00	56.340	317.170	6092.65	-1598.61	-2396.37	-1463.89	1751375.15	14553485.52	40°04'22.0327"N	80°36'12.1353"W	2808.13	211.420	9.19	
7180.00	63.270	322.360	6137.91	-1524.02	-2336.97	-1513.99	1751325.07	14553544.89	40°04'22.6219"N	80°36'12.7762"W	2784.53	212.937	9.17	
7270.00	69.970	327.240	6173.62	-1443.08	-2269.48	-1561.49	1751277.59	14553612.36	40°04'23.2909"N	80°36'13.3834"W	2754.78	214.529	8.95	
7361.00	77.090	329.070	6199.41	-1356.71	-2195.39	-1607.48	1751231.62	14553686.42	40°04'24.0251"N	80°36'13.9707"W	2720.98	216.212	8.06	
7451.00	82.810	331.860	6215.11	-1268.57	-2118.32	-1651.12	1751187.99	14553763.47	40°04'24.7887"N	80°36'14.5278"W	2685.79	217.935	7.05	
7542.00	89.750	335.230	6221.01	-1177.92	-2037.08	-1691.54	1751147.59	14553844.68	40°04'25.5933"N	80°36'15.0430"W	2647.83	219.705	8.47	
7640.00	90.490	335.070	6220.81	-1079.93	-1948.15	-1732.72	1751106.42	14553933.57	40°04'26.4739"N	80°36'15.5676"W	2607.22	221.651	0.77	
7736.00	90.460	336.250	6220.01	-983.94	-1860.69	-1772.29	1751066.87	14554021.00	40°04'27.3399"N	80°36'16.0716"W	2569.66	223.606	1.23	
7832.00	90.310	336.480	6219.37	-887.95	-1772.74	-1810.77	1751028.40	14554108.91	40°04'28.2107"N	80°36'16.5616"W	2534.07	225.608	0.29	
7929.00	90.890	336.130	6218.35	-790.95	-1683.92	-1849.75	1750989.44	14554197.69	40°04'29.0901"N	80°36'17.0579"W	2501.44	227.687	0.70	
8025.00	90.370	336.030	6217.30	-694.96	-1596.18	-1888.67	1750950.53	14554285.41	40°04'29.9590"N	80°36'17.5536"W	2472.83	229.798	0.55	

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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]	Comments
8122.00	90.620	336.360	6216.46	-597.96	-1507.43	-1927.82	1750911.39	14554374.11	40°04'30.8377"N	80°36'18.0522"W	2447.21	231.977	0.43	
8218.00	90.180	336.390	6215.79	-501.97	-1419.48	-1966.30	1750872.94	14554462.03	40°04'31.7085"N	80°36'18.5420"W	2425.13	234.174	0.46	
8315.00	89.880	335.890	6215.74	-404.97	-1330.77	-2005.53	1750833.72	14554550.71	40°04'32.5869"N	80°36'19.0417"W	2406.89	236.434	0.60	
8411.00	90.620	336.330	6215.32	-308.97	-1243.00	-2044.41	1750794.85	14554638.45	40°04'33.4560"N	80°36'19.5368"W	2392.62	238.700	0.90	
8508.00	90.220	336.140	6214.61	-211.97	-1154.22	-2083.50	1750755.78	14554727.19	40°04'34.3349"N	80°36'20.0345"W	2381.85	241.014	0.46	
8605.00	90.460	336.120	6214.03	-114.97	-1065.52	-2122.75	1750716.55	14554815.85	40°04'35.2132"N	80°36'20.5344"W	2375.16	243.345	0.25	
8702.00	90.280	336.150	6213.40	-17.97	-976.82	-2161.99	1750677.32	14554904.52	40°04'36.0915"N	80°36'21.0342"W	2372.42	245.686	0.19	
8798.00	90.460	335.670	6212.78	78.02	-889.18	-2201.18	1750638.15	14554992.13	40°04'36.9593"N	80°36'21.5332"W	2373.99	248.003	0.53	
8894.00	90.740	339.100	6211.78	173.98	-800.58	-2238.08	1750601.25	14555080.69	40°04'37.8364"N	80°36'22.0030"W	2376.96	250.317	3.58	
8991.00	90.310	336.260	6210.89	270.93	-710.86	-2274.92	1750564.44	14555170.38	40°04'38.7247"N	80°36'22.4717"W	2383.40	252.647	2.96	
9087.00	90.890	336.280	6209.88	366.92	-622.98	-2313.55	1750525.82	14555258.22	40°04'39.5948"N	80°36'22.9637"W	2395.96	254.929	0.60	
9184.00	90.280	336.090	6208.89	463.92	-534.25	-2352.71	1750486.67	14555346.92	40°04'40.4734"N	80°36'23.4624"W	2412.61	257.206	0.66	
9280.00	90.000	336.340	6208.66	559.92	-446.40	-2391.43	1750447.97	14555434.73	40°04'41.3432"N	80°36'23.9555"W	2432.74	259.426	0.39	
9377.00	90.490	336.380	6208.24	656.92	-357.54	-2430.33	1750409.09	14555523.56	40°04'42.2230"N	80°36'24.4508"W	2456.49	261.631	0.51	
9473.00	89.820	336.030	6207.98	752.91	-269.70	-2469.06	1750370.37	14555611.36	40°04'43.0927"N	80°36'24.9441"W	2483.75	263.766	0.79	
9570.00	90.770	336.330	6207.49	849.91	-180.97	-2508.23	1750331.21	14555700.06	40°04'43.9713"N	80°36'25.4430"W	2514.75	265.873	1.03	
9666.00	90.580	336.720	6206.35	945.90	-92.92	-2546.47	1750292.99	14555788.08	40°04'44.8431"N	80°36'25.9299"W	2548.17	267.910	0.45	
9763.00	90.680	335.600	6205.29	1042.89	-4.20	-2585.67	1750253.80	14555876.76	40°04'45.7215"N	80°36'26.4292"W	2585.68	269.907	1.16	
9860.00	90.060	335.510	6204.66	1139.89	84.10	-2625.81	1750213.68	14555965.03	40°04'46.5959"N	80°36'26.9405"W	2627.16	271.834	0.65	
9956.00	91.110	335.990	6203.68	1235.88	171.62	-2665.24	1750174.27	14556052.52	40°04'47.4625"N	80°36'27.4428"W	2670.76	273.684	1.20	
10053.00	90.400	336.290	6202.40	1332.87	260.32	-2704.47	1750135.05	14556141.18	40°04'48.3408"N	80°36'27.9425"W	2716.97	275.498	0.79	
10149.00	90.120	336.620	6201.97	1428.87	348.33	-2742.82	1750096.71	14556229.16	40°04'49.2121"N	80°36'28.4308"W	2764.85	277.238	0.45	
10246.00	90.180	336.190	6201.71	1525.87	437.22	-2781.65	1750057.90	14556318.01	40°04'50.0922"N	80°36'28.9252"W	2815.80	278.933	0.45	
10342.00	90.030	336.190	6201.54	1621.86	525.05	-2820.40	1750019.16	14556405.81	40°04'50.9618"N	80°36'29.4188"W	2868.86	280.546	0.16	
10439.00	90.580	336.190	6201.02	1718.86	613.79	-2859.56	1749980.02	14556494.52	40°04'51.8405"N	80°36'29.9176"W	2924.69	282.114	0.57	
10535.00	90.680	336.180	6199.97	1814.86	701.61	-2898.32	1749941.27	14556582.30	40°04'52.7100"N	80°36'30.4113"W	2982.04	283.608	0.10	
10631.00	90.370	336.460	6199.09	1910.85	789.53	-2936.88	1749902.73	14556670.18	40°04'53.5805"N	80°36'30.9023"W	3041.15	285.047	0.44	
10728.00	90.150	335.150	6198.65	2007.85	878.00	-2976.63	1749862.99	14556758.62	40°04'54.4566"N	80°36'31.4087"W	3103.42	286.434	1.37	
10824.00	90.830	336.750	6197.83	2103.84	965.66	-3015.75	1749823.89	14556846.25	40°04'55.3245"N	80°36'31.9070"W	3166.58	287.755	1.81	
10921.00	91.080	337.560	6196.21	2200.81	1055.04	-3053.40	1749786.25	14556935.59	40°04'56.2094"N	80°36'32.3864"W	3230.54	289.062	0.87	

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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]	Comments
11018.00	90.280	334.250	6195.06	2297.79	1143.57	-3093.00	1749746.67	14557024.09	40°04'57.0860"N	80°36'32.8907"W	3297.63	290.291	3.51	
11114.00	90.890	337.490	6194.08	2393.77	1231.16	-3132.23	1749707.45	14557111.65	40°04'57.9533"N	80°36'33.3906"W	3365.51	291.458	3.43	
11210.00	90.060	334.730	6193.28	2489.76	1318.93	-3171.11	1749668.59	14557199.38	40°04'58.8222"N	80°36'33.8857"W	3434.46	292.583	3.00	
11307.00	91.660	337.400	6191.82	2586.73	1407.56	-3210.45	1749629.26	14557287.98	40°04'59.6999"N	80°36'34.3869"W	3505.46	293.674	3.21	
11403.00	90.430	335.890	6190.07	2682.71	1495.68	-3248.50	1749591.23	14557376.06	40°05'0.5723"N	80°36'34.8714"W	3576.29	294.722	2.03	
11500.00	90.310	335.440	6189.45	2779.70	1584.06	-3288.47	1749551.28	14557464.41	40°05'1.4474"N	80°36'35.3807"W	3650.11	295.720	0.48	
11596.00	91.320	336.640	6188.08	2875.69	1671.77	-3327.45	1749512.31	14557552.09	40°05'2.3159"N	80°36'35.8772"W	3723.81	296.676	1.63	
11693.00	90.710	336.290	6186.36	2972.67	1760.69	-3366.18	1749473.60	14557640.97	40°05'3.1963"N	80°36'36.3704"W	3798.84	297.612	0.72	
11789.00	90.740	336.210	6185.15	3068.66	1848.55	-3404.84	1749434.95	14557728.80	40°05'4.0662"N	80°36'36.8629"W	3874.28	298.498	0.09	
11886.00	90.550	336.090	6184.06	3165.66	1937.27	-3444.06	1749395.75	14557817.48	40°05'4.9446"N	80°36'37.3624"W	3951.52	299.358	0.23	
11982.00	90.860	336.170	6182.88	3261.65	2025.05	-3482.90	1749356.92	14557905.22	40°05'5.8137"N	80°36'37.8572"W	4028.82	300.175	0.33	
12079.00	91.140	336.610	6181.18	3358.63	2113.91	-3521.75	1749318.09	14557994.06	40°05'6.6936"N	80°36'38.3520"W	4107.47	300.974	0.54	
12175.00	91.170	337.250	6179.25	3454.61	2202.22	-3559.36	1749280.50	14558082.33	40°05'7.5678"N	80°36'38.8309"W	4185.54	301.746	0.67	
12272.00	91.020	337.170	6177.39	3551.57	2291.63	-3596.92	1749242.94	14558171.70	40°05'8.4530"N	80°36'39.3092"W	4264.90	302.502	0.18	
12368.00	90.650	336.940	6175.99	3647.55	2380.02	-3634.34	1749205.54	14558260.06	40°05'9.3282"N	80°36'39.7856"W	4344.30	303.220	0.45	
12465.00	90.220	336.190	6175.26	3744.54	2469.02	-3672.92	1749166.98	14558349.02	40°05'10.2093"N	80°36'40.2769"W	4425.65	303.910	0.89	
12562.00	91.790	337.380	6173.56	3841.51	2558.15	-3711.15	1749128.76	14558438.12	40°05'11.0917"N	80°36'40.7638"W	4507.41	304.579	2.03	
12658.00	90.400	337.250	6171.72	3937.47	2646.70	-3748.16	1749091.76	14558526.64	40°05'11.9684"N	80°36'41.2350"W	4588.44	305.227	1.45	
12755.00	90.520	336.870	6170.94	4034.46	2736.03	-3785.97	1749053.97	14558615.93	40°05'12.8528"N	80°36'41.7164"W	4671.13	305.855	0.41	
12851.00	90.370	336.150	6170.20	4130.45	2824.07	-3824.23	1749015.72	14558703.94	40°05'13.7245"N	80°36'42.2038"W	4753.96	306.445	0.77	
12948.00	90.550	336.360	6169.42	4227.45	2912.85	-3863.29	1748976.68	14558792.69	40°05'14.6035"N	80°36'42.7013"W	4838.36	307.016	0.29	
13044.00	90.370	336.290	6168.65	4323.44	3000.77	-3901.84	1748938.15	14558880.57	40°05'15.4740"N	80°36'43.1923"W	4922.29	307.563	0.20	
13141.00	90.520	336.540	6167.90	4420.44	3089.67	-3940.65	1748899.35	14558969.43	40°05'16.3541"N	80°36'43.6866"W	5007.47	308.098	0.30	
13237.00	90.650	336.550	6166.91	4516.43	3177.73	-3978.86	1748861.16	14559057.46	40°05'17.2260"N	80°36'44.1733"W	5092.08	308.613	0.14	
13334.00	90.650	336.750	6165.81	4613.42	3266.78	-4017.30	1748822.73	14559146.48	40°05'18.1077"N	80°36'44.6629"W	5177.89	309.117	0.21	
13430.00	89.880	336.540	6165.37	4709.42	3354.91	-4055.36	1748784.69	14559234.57	40°05'18.9803"N	80°36'45.1476"W	5263.21	309.600	0.83	
13527.00	90.430	336.400	6165.11	4806.41	3443.85	-4094.08	1748745.98	14559323.47	40°05'19.8608"N	80°36'45.6409"W	5349.91	310.070	0.59	
13623.00	90.710	336.720	6164.15	4902.40	3531.92	-4132.27	1748707.81	14559411.51	40°05'20.7328"N	80°36'46.1273"W	5436.00	310.521	0.44	
13720.00	90.650	336.520	6163.00	4999.39	3620.95	-4170.76	1748669.33	14559500.51	40°05'21.6142"N	80°36'46.6175"W	5523.27	310.964	0.22	
13817.00	90.680	336.530	6161.88	5096.39	3709.91	-4209.39	1748630.71	14559589.44	40°05'22.4950"N	80°36'47.1096"W	5610.92	311.391	0.03	

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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]	Comments
13913.00	90.520	336.710	6160.87	5192.38	3798.03	-4247.49	1748592.63	14559677.52	40°05'23.3674"N	80°36'47.5948"W	5697.91	311.803	0.25	
14009.00	90.370	335.880	6160.13	5288.37	3885.92	-4286.08	1748554.05	14559765.38	40°05'24.2377"N	80°36'48.0865"W	5785.40	312.197	0.88	
14106.00	90.520	335.710	6159.37	5385.37	3974.39	-4325.85	1748514.30	14559853.82	40°05'25.1136"N	80°36'48.5932"W	5874.42	312.575	0.23	
14202.00	90.490	335.560	6158.53	5481.36	4061.84	-4365.45	1748474.71	14559941.23	40°05'25.9795"N	80°36'49.0979"W	5962.86	312.937	0.16	
14299.00	90.340	335.230	6157.82	5578.35	4150.03	-4405.84	1748434.34	14560029.38	40°05'26.8527"N	80°36'49.6126"W	6052.62	313.287	0.37	
14395.00	90.770	335.490	6156.89	5674.34	4237.28	-4445.86	1748394.34	14560116.60	40°05'27.7167"N	80°36'50.1226"W	6141.68	313.624	0.52	
14492.00	90.680	335.830	6155.67	5771.33	4325.66	-4485.83	1748354.38	14560204.94	40°05'28.5917"N	80°36'50.6321"W	6231.69	313.959	0.36	
14588.00	90.340	335.560	6154.81	5867.32	4413.14	-4525.35	1748314.88	14560292.39	40°05'29.4580"N	80°36'51.1356"W	6320.96	314.281	0.45	
14684.00	90.490	335.260	6154.12	5963.31	4500.43	-4565.29	1748274.95	14560379.65	40°05'30.3223"N	80°36'51.6447"W	6410.60	314.590	0.35	
14781.00	90.460	335.150	6153.31	6060.29	4588.49	-4605.97	1748234.29	14560467.67	40°05'31.1942"N	80°36'52.1632"W	6501.48	314.891	0.12	
14878.00	90.650	335.500	6152.37	6157.28	4676.63	-4646.46	1748193.81	14560555.78	40°05'32.0669"N	80°36'52.6793"W	6592.46	315.185	0.41	
14974.00	90.520	335.560	6151.39	6253.27	4764.00	-4686.23	1748154.06	14560643.12	40°05'32.9321"N	80°36'53.1860"W	6682.55	315.472	0.15	
15071.00	90.090	335.140	6150.88	6350.26	4852.16	-4726.68	1748113.62	14560731.24	40°05'33.8050"N	80°36'53.7016"W	6773.84	315.751	0.62	
15168.00	90.740	335.760	6150.17	6447.25	4940.39	-4766.98	1748073.34	14560819.43	40°05'34.6786"N	80°36'54.2153"W	6865.24	316.023	0.93	
15264.00	91.260	335.940	6148.50	6543.23	5027.97	-4806.25	1748034.08	14560906.98	40°05'35.5458"N	80°36'54.7157"W	6955.61	316.292	0.57	
15360.00	90.680	335.640	6146.87	6639.22	5115.52	-4845.61	1747994.74	14560994.49	40°05'36.4126"N	80°36'55.2173"W	7046.17	316.552	0.68	
15457.00	91.110	335.730	6145.36	6736.20	5203.90	-4885.55	1747954.82	14561082.84	40°05'37.2877"N	80°36'55.7262"W	7137.87	316.807	0.45	
15554.00	91.110	335.940	6143.48	6833.18	5292.38	-4925.25	1747915.13	14561171.29	40°05'38.1638"N	80°36'56.2321"W	7229.62	317.058	0.22	
15651.00	91.050	335.840	6141.65	6930.16	5380.91	-4964.87	1747875.53	14561259.78	40°05'39.0403"N	80°36'56.7370"W	7321.48	317.303	0.12	
15747.00	90.890	335.460	6140.02	7026.15	5468.35	-5004.44	1747835.97	14561347.20	40°05'39.9061"N	80°36'57.2413"W	7412.65	317.536	0.43	
15844.00	90.830	335.960	6138.57	7123.13	5556.76	-5044.34	1747796.09	14561435.56	40°05'40.7814"N	80°36'57.7498"W	7504.86	317.767	0.52	
15940.00	90.980	335.640	6137.05	7219.12	5644.31	-5083.69	1747756.75	14561523.08	40°05'41.6483"N	80°36'58.2512"W	7596.19	317.991	0.37	
16037.00	91.260	335.880	6135.16	7316.10	5732.74	-5123.50	1747716.95	14561611.48	40°05'42.5239"N	80°36'58.7587"W	7688.60	318.212	0.38	
16134.00	90.860	335.510	6133.36	7413.08	5821.13	-5163.42	1747677.05	14561699.83	40°05'43.3990"N	80°36'59.2674"W	7781.16	318.427	0.56	
16230.00	90.770	335.720	6132.00	7509.07	5908.55	-5203.05	1747637.44	14561787.23	40°05'44.2647"N	80°36'59.7725"W	7872.91	318.633	0.24	
16327.00	90.680	335.510	6130.77	7606.05	5996.89	-5243.10	1747597.41	14561875.53	40°05'45.1394"N	80°37'0.2829"W	7965.73	318.837	0.24	
16423.00	91.020	335.390	6129.35	7702.04	6084.20	-5282.98	1747557.54	14561962.81	40°05'46.0039"N	80°37'0.7912"W	8057.76	319.032	0.38	
16520.00	91.200	335.620	6127.47	7799.01	6172.46	-5323.19	1747517.35	14562051.03	40°05'46.8777"N	80°37'1.3037"W	8150.80	319.225	0.30	
16616.00	91.050	335.320	6125.58	7894.99	6259.78	-5363.04	1747477.51	14562138.31	40°05'47.7423"N	80°37'1.8117"W	8243.00	319.412	0.35	
16713.00	91.170	335.310	6123.70	7991.96	6347.90	-5403.54	1747437.03	14562226.40	40°05'48.6148"N	80°37'2.3280"W	8336.31	319.594	0.12	

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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]	Comments
16810.00	91.110	335.680	6121.77	8088.94	6436.14	-5443.77	1747396.82	14562314.61	40°05'49.4886"N	80°37'2.8407"W	8429.62	319.775	0.39	
16907.00	90.920	335.490	6120.05	8185.92	6524.45	-5483.85	1747356.74	14562402.89	40°05'50.3630"N	80°37'3.3516"W	8522.98	319.953	0.28	
17003.00	91.260	335.900	6118.23	8281.90	6611.93	-5523.36	1747317.25	14562490.33	40°05'51.2291"N	80°37'3.8552"W	8615.40	320.126	0.55	
17100.00	90.860	335.610	6116.43	8378.88	6700.36	-5563.18	1747277.44	14562578.72	40°05'52.1047"N	80°37'4.3627"W	8708.83	320.298	0.51	
17197.00	91.570	335.330	6114.38	8475.85	6788.58	-5603.45	1747237.20	14562666.91	40°05'52.9782"N	80°37'4.8759"W	8802.47	320.463	0.79	
17293.00	91.510	335.580	6111.80	8571.81	6875.87	-5643.31	1747197.35	14562754.17	40°05'53.8425"N	80°37'5.3841"W	8895.20	320.623	0.27	
17390.00	91.540	335.490	6109.22	8668.77	6964.13	-5683.47	1747157.21	14562842.40	40°05'54.7164"N	80°37'5.8960"W	8988.94	320.782	0.10	
17487.00	91.630	335.460	6106.53	8765.72	7052.35	-5723.72	1747116.97	14562930.58	40°05'55.5899"N	80°37'6.4090"W	9082.76	320.937	0.10	
17584.00	91.660	335.440	6103.75	8862.68	7140.54	-5764.00	1747076.70	14563018.74	40°05'56.4631"N	80°37'6.9226"W	9176.66	321.089	0.04	
17681.00	91.510	335.760	6101.06	8959.64	7228.85	-5804.06	1747036.66	14563107.01	40°05'57.3374"N	80°37'7.4331"W	9270.56	321.239	0.36	
17777.00	91.230	335.160	6098.77	9055.60	7316.15	-5843.92	1746996.82	14563194.28	40°05'58.2019"N	80°37'7.9412"W	9363.62	321.383	0.69	
17874.00	91.420	335.610	6096.53	9152.57	7404.31	-5884.31	1746956.44	14563282.40	40°05'59.0748"N	80°37'8.4561"W	9457.74	321.525	0.50	
17970.00	91.450	335.660	6094.12	9248.53	7491.73	-5923.90	1746916.87	14563369.79	40°05'59.9404"N	80°37'8.9608"W	9550.85	321.666	0.06	
18067.00	91.510	335.320	6091.62	9345.50	7579.96	-5964.13	1746876.65	14563457.99	40°06'0.8140"N	80°37'9.4736"W	9645.03	321.803	0.36	
18164.00	91.420	335.390	6089.14	9442.45	7668.10	-6004.56	1746836.24	14563546.09	40°06'1.6866"N	80°37'9.9891"W	9739.33	321.937	0.12	
18260.00	91.290	335.530	6086.87	9538.42	7755.40	-6044.42	1746796.39	14563633.36	40°06'2.5511"N	80°37'10.4972"W	9832.67	322.068	0.20	
18357.00	91.600	335.450	6084.42	9635.38	7843.63	-6084.65	1746756.18	14563721.56	40°06'3.4247"N	80°37'11.0100"W	9927.01	322.198	0.33	
18453.00	91.510	335.430	6081.82	9731.34	7930.92	-6124.54	1746716.31	14563808.80	40°06'4.2889"N	80°37'11.5185"W	10020.45	322.323	0.10	
18550.00	91.230	335.410	6079.50	9828.31	8019.10	-6164.88	1746675.99	14563896.95	40°06'5.1620"N	80°37'12.0328"W	10114.92	322.448	0.29	
18646.00	91.140	335.230	6077.51	9924.28	8106.31	-6204.95	1746635.92	14563984.13	40°06'6.0256"N	80°37'12.5437"W	10208.51	322.568	0.21	
18743.00	91.480	334.030	6075.29	10021.22	8193.93	-6246.50	1746594.39	14564071.72	40°06'6.8932"N	80°37'13.0736"W	10303.36	322.681	1.29	
18839.00	91.510	335.110	6072.79	10117.15	8280.60	-6287.71	1746553.20	14564158.35	40°06'7.7514"N	80°37'13.5991"W	10397.29	322.790	1.13	
18936.00	91.480	336.650	6070.26	10214.11	8369.10	-6327.33	1746513.59	14564246.82	40°06'8.6276"N	80°37'14.1042"W	10491.76	322.909	1.59	
19033.00	91.750	337.040	6067.52	10311.07	8458.25	-6365.46	1746475.48	14564335.93	40°06'9.5102"N	80°37'14.5899"W	10585.89	323.036	0.49	
19129.00	91.570	336.840	6064.74	10407.01	8546.54	-6403.05	1746437.91	14564424.19	40°06'10.3843"N	80°37'15.0688"W	10679.06	323.160	0.28	
19226.00	91.540	336.810	6062.11	10503.97	8635.68	-6441.21	1746399.76	14564513.30	40°06'11.2668"N	80°37'15.5550"W	10773.31	323.281	0.04	
19323.00	91.390	336.580	6059.63	10600.94	8724.74	-6479.57	1746361.41	14564602.32	40°06'12.1485"N	80°37'16.0438"W	10867.65	323.400	0.28	
19419.00	90.800	336.760	6057.80	10696.91	8812.87	-6517.58	1746323.42	14564690.42	40°06'13.0210"N	80°37'16.5281"W	10961.09	323.515	0.64	
19516.00	90.920	336.910	6056.34	10793.89	8902.04	-6555.74	1746285.28	14564779.55	40°06'13.9038"N	80°37'17.0142"W	11055.50	323.631	0.20	
19613.00	90.710	336.430	6054.96	10890.88	8991.10	-6594.15	1746246.88	14564868.58	40°06'14.7855"N	80°37'17.5036"W	11150.01	323.743	0.54	

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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]	Comments
19709.00	90.620	336.220	6053.85	10986.87	9079.02	-6632.69	1746208.35	14564956.46	40°06'15.6559"N	80°37'17.9949"W	11243.72	323.850	0.24	
19806.00	90.860	336.580	6052.59	11083.86	9167.90	-6671.52	1746169.53	14565045.30	40°06'16.5359"N	80°37'18.4897"W	11338.41	323.956	0.45	
19902.00	90.710	336.260	6051.28	11179.85	9255.87	-6709.92	1746131.15	14565133.25	40°06'17.4069"N	80°37'18.9791"W	11432.16	324.060	0.37	
19999.00	90.860	336.670	6049.95	11276.84	9344.79	-6748.65	1746092.44	14565222.13	40°06'18.2872"N	80°37'19.4726"W	11526.90	324.164	0.45	
20096.00	90.950	336.630	6048.42	11373.83	9433.84	-6787.09	1746054.01	14565311.14	40°06'19.1688"N	80°37'19.9625"W	11621.61	324.267	0.10	
20192.00	91.050	336.030	6046.74	11469.81	9521.75	-6825.63	1746015.49	14565399.02	40°06'20.0391"N	80°37'20.4536"W	11715.50	324.365	0.63	
20289.00	90.950	336.370	6045.05	11566.79	9610.49	-6864.76	1745976.37	14565487.72	40°06'20.9177"N	80°37'20.9524"W	11810.44	324.462	0.37	
20385.00	91.050	336.590	6043.37	11662.78	9698.50	-6903.07	1745938.08	14565575.70	40°06'21.7890"N	80°37'21.4406"W	11904.34	324.558	0.25	
20482.00	91.140	336.400	6041.52	11759.76	9787.43	-6941.75	1745899.41	14565664.60	40°06'22.6695"N	80°37'21.9335"W	11999.24	324.654	0.22	
20578.00	91.110	336.620	6039.64	11855.74	9875.46	-6980.01	1745861.17	14565752.59	40°06'23.5410"N	80°37'22.4211"W	12093.19	324.747	0.23	
20675.00	91.050	336.510	6037.81	11952.72	9964.44	-7018.58	1745822.62	14565841.54	40°06'24.4220"N	80°37'22.9126"W	12188.13	324.841	0.13	
20771.00	91.260	336.560	6035.87	12048.69	10052.49	-7056.80	1745784.41	14565929.55	40°06'25.2936"N	80°37'23.3997"W	12282.13	324.931	0.22	
20868.00	91.350	336.560	6033.66	12145.67	10141.46	-7095.37	1745745.85	14566018.49	40°06'26.1745"N	80°37'23.8913"W	12377.13	325.022	0.09	
20964.00	91.350	336.400	6031.40	12241.64	10229.46	-7133.67	1745707.57	14566106.46	40°06'27.0457"N	80°37'24.3794"W	12471.21	325.109	0.17	
21061.00	91.320	336.510	6029.14	12338.61	10318.36	-7172.41	1745668.84	14566195.32	40°06'27.9258"N	80°37'24.8731"W	12566.30	325.196	0.12	
21157.00	91.630	336.470	6026.67	12434.58	10406.36	-7210.69	1745630.58	14566283.29	40°06'28.7971"N	80°37'25.3610"W	12660.43	325.281	0.33	
21254.00	91.750	336.560	6023.81	12531.53	10495.29	-7249.33	1745591.95	14566372.18	40°06'29.6774"N	80°37'25.8534"W	12755.54	325.366	0.15	
21350.00	91.940	336.410	6020.72	12627.48	10583.27	-7287.61	1745553.68	14566460.13	40°06'30.5485"N	80°37'26.3413"W	12849.70	325.449	0.25	
21447.00	91.690	336.760	6017.65	12724.43	10672.24	-7326.14	1745515.17	14566549.06	40°06'31.4293"N	80°37'26.8323"W	12944.84	325.532	0.44	
21543.00	91.750	336.950	6014.76	12820.38	10760.47	-7363.86	1745477.47	14566637.26	40°06'32.3028"N	80°37'27.3129"W	13038.94	325.614	0.21	
21640.00	91.750	335.630	6011.80	12917.33	10849.24	-7402.84	1745438.50	14566726.00	40°06'33.1816"N	80°37'27.8098"W	13134.23	325.693	1.36	
21736.00	91.200	335.280	6009.33	13013.29	10936.53	-7442.71	1745398.65	14566813.26	40°06'34.0460"N	80°37'28.3182"W	13228.82	325.763	0.68	
21833.00	91.320	335.460	6007.20	13110.26	11024.69	-7483.12	1745358.25	14566901.38	40°06'34.9188"N	80°37'28.8335"W	13324.45	325.833	0.22	
21930.00	90.950	335.930	6005.28	13207.24	11113.07	-7523.04	1745318.35	14566989.73	40°06'35.7939"N	80°37'29.3425"W	13420.00	325.904	0.62	
22026.00	90.800	335.760	6003.81	13303.22	11200.66	-7562.32	1745279.08	14567077.28	40°06'36.6610"N	80°37'29.8433"W	13514.56	325.974	0.24	
22123.00	91.080	336.020	6002.22	13400.21	11289.18	-7601.94	1745239.48	14567165.77	40°06'37.5375"N	80°37'30.3484"W	13610.11	326.044	0.39	
22219.00	90.830	335.020	6000.62	13496.19	11376.54	-7641.71	1745199.72	14567253.09	40°06'38.4024"N	80°37'30.8555"W	13704.79	326.110	1.07	
22316.00	91.050	335.370	5999.03	13593.16	11464.58	-7682.40	1745159.05	14567341.10	40°06'39.2741"N	80°37'31.3744"W	13800.57	326.174	0.43	
22412.00	91.230	335.360	5997.12	13689.14	11551.82	-7722.41	1745119.06	14567428.31	40°06'40.1379"N	80°37'31.8846"W	13895.33	326.237	0.19	
22509.00	90.950	335.390	5995.27	13786.11	11639.98	-7762.82	1745078.66	14567516.44	40°06'41.0108"N	80°37'32.3999"W	13991.09	326.300	0.29	

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	4706900342000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

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]	Comments
22605.00	90.890	335.420	5993.73	13882.09	11727.26	-7802.77	1745038.73	14567603.68	40°06'41.8750"N	80°37'32.9094"W	14085.88	326.362	0.07	
22702.00	91.020	335.470	5992.11	13979.07	11815.48	-7843.07	1744998.44	14567691.86	40°06'42.7484"N	80°37'33.4234"W	14181.66	326.424	0.14	
22798.00	90.990	335.520	5990.43	14075.05	11902.82	-7882.89	1744958.64	14567779.17	40°06'43.6132"N	80°37'33.9310"W	14276.45	326.485	0.06	
22895.00	91.020	335.570	5988.73	14172.03	11991.10	-7923.04	1744918.51	14567867.42	40°06'44.4873"N	80°37'34.4430"W	14372.23	326.546	0.06	
22991.00	91.020	335.300	5987.02	14268.01	12078.40	-7962.94	1744878.62	14567954.68	40°06'45.3516"N	80°37'34.9519"W	14467.07	326.604	0.28	
23088.00	91.050	335.450	5985.27	14364.98	12166.56	-8003.35	1744838.22	14568042.81	40°06'46.2245"N	80°37'35.4672"W	14562.93	326.662	0.16	
23184.00	91.080	335.800	5983.48	14460.96	12253.99	-8042.96	1744798.63	14568130.20	40°06'47.0901"N	80°37'35.9724"W	14657.75	326.721	0.37	
23281.00	90.550	335.570	5982.10	14557.95	12342.38	-8082.90	1744758.71	14568218.56	40°06'47.9652"N	80°37'36.4816"W	14753.56	326.780	0.60	
23378.00	90.890	335.750	5980.89	14654.94	12430.75	-8122.87	1744718.75	14568306.89	40°06'48.8402"N	80°37'36.9913"W	14849.40	326.837	0.40	
23474.00	90.950	335.770	5979.34	14750.93	12518.27	-8162.28	1744679.35	14568394.38	40°06'49.7067"N	80°37'37.4938"W	14944.23	326.894	0.07	
23571.00	90.890	335.380	5977.79	14847.91	12606.58	-8202.39	1744639.26	14568482.66	40°06'50.5811"N	80°37'38.0052"W	15040.11	326.950	0.41	
23667.00	90.890	335.610	5976.30	14943.89	12693.92	-8242.20	1744599.47	14568569.97	40°06'51.4458"N	80°37'38.5130"W	15135.04	327.004	0.24	
23763.00	90.620	335.050	5975.03	15039.87	12781.15	-8282.27	1744559.42	14568657.16	40°06'52.3095"N	80°37'39.0240"W	15230.03	327.057	0.65	
23860.00	90.800	335.970	5973.83	15136.86	12869.42	-8322.47	1744519.22	14568745.39	40°06'53.1834"N	80°37'39.5367"W	15325.97	327.110	0.97	
23956.00	91.320	336.840	5972.05	15232.84	12957.38	-8360.89	1744480.82	14568833.32	40°06'54.0542"N	80°37'40.0265"W	15420.70	327.167	1.06	
24053.00	90.580	336.440	5970.44	15329.82	13046.41	-8399.35	1744442.38	14568922.32	40°06'54.9356"N	80°37'40.5166"W	15516.38	327.226	0.87	
24149.00	90.830	336.410	5969.26	15425.81	13134.39	-8437.74	1744404.00	14569010.26	40°06'55.8067"N	80°37'41.0060"W	15611.14	327.283	0.26	
24246.00	90.890	336.550	5967.81	15522.80	13223.32	-8476.44	1744365.31	14569099.16	40°06'56.6871"N	80°37'41.4994"W	15706.89	327.339	0.16	
24341.00	90.400	336.460	5966.74	15617.79	13310.44	-8514.32	1744327.46	14569186.25	40°06'57.5496"N	80°37'41.9822"W	15800.68	327.394	0.52	
24438.00	90.400	336.640	5966.06	15714.79	13399.43	-8552.92	1744288.87	14569275.20	40°06'58.4305"N	80°37'42.4743"W	15896.45	327.450	0.19	
24534.00	90.710	336.470	5965.13	15810.78	13487.50	-8591.11	1744250.69	14569363.23	40°06'59.3024"N	80°37'42.9611"W	15991.24	327.504	0.37	
24631.00	90.710	336.540	5963.93	15907.77	13576.45	-8629.78	1744212.04	14569452.15	40°07'0.1830"N	80°37'43.4541"W	16087.05	327.558	0.07	
24729.00	90.490	336.540	5962.90	16005.76	13666.34	-8668.79	1744173.04	14569542.01	40°07'1.0730"N	80°37'43.9514"W	16183.85	327.612	0.22	
24824.00	90.490	336.270	5962.09	16100.76	13753.40	-8706.81	1744135.03	14569629.03	40°07'1.9348"N	80°37'44.4361"W	16277.73	327.663	0.28	
24898.00	90.710	336.500	5961.32	16174.75	13821.20	-8736.46	1744105.40	14569696.80	40°07'2.6060"N	80°37'44.8140"W	16350.88	327.703	0.43	
24923.00‡	90.710	336.500	5961.01	16199.75	13844.12	-8746.42	1744095.44	14569719.72	40°07'2.8330"N	80°37'44.9411"W	16375.58	327.716	0.00	Proj to TD

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	OCC A OHI 401H
Field	Ohio	API	47069003420000
Facility	OCC A OHI Pad	Wellbore	OCC A OHI 401H AWB
Slot	Slot 401H		

HOLE & CASING SECTIONS - Ref Wellbore: OCC A OHI 401H AWB Ref Wellpath: OCC A OHI 401H awp 161' - 24898' Proj: 24923'									
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	26.00	216.00	190.00	26.00	216.00	0.00	0.00	-0.63	0.42
13.375in Casing	26.00	551.00	525.00	26.00	550.99	0.00	0.00	-2.28	0.61
9.625in Casing	26.00	1913.00	1887.00	26.00	1890.94	0.00	0.00	-193.76	-51.54
5.5in Casing	26.00	24914.00	24888.00	26.00	5961.12	0.00	0.00	13835.87	-8742.84

TARGETS									
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	
OCC A OHI 401H BHL Rev 8	5937.00	13855.12	-8730.45	1744111.41	14569730.71	40°07'2.9410"N	80°37'44.7349"W	point	
OCC A OHI 401H LP Rev 9	6222.00	-2029.83	-1696.48	1751142.65	14553851.92	40°04'25.6651"N	80°36'15.1061"W	point	

WELLPATH COMPOSITION - Ref Wellbore: OCC A OHI 401H AWB Ref Wellpath: OCC A OHI 401H awp 161' - 24898' Proj: 24923'						
Start MD [ft]	End MD [ft]	Positional Uncertainty Model		Log Name/Comment	Wellbore	Survey Date
26.00	496.00	OWSG MWD rev2 + HRGM		1 Tally MWD 161' - 496'	OCC A OHI 401H AWB	9/5/2022
496.00	1843.00	OWSG MWD rev2 + HRGM		2 Tally MWD 595' - 1843'	OCC A OHI 401H AWB	9/5/2022
1843.00	5808.00	OWSG MWD rev2 + HRGM		3 Tally MWD 1921' - 5808'	OCC A OHI 401H AWB	9/5/2022
5808.00	24923.00	BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing)		4 BH MWD 5905' - 24898'	OCC A OHI 401H AWB	9/5/2022