



# Actual Wellpath Report

Gary Kestner OHI 8H AWP Proj: 14552

Page 1 of 10



Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 8H
Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 8H AWB
Slot	Slot #08		

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect@ 6.0
North Reference	Grid	User	Atenjen
Scale	0.999619	Report Generated	2/27/2020 at 8:58:00 AM
Converge at slot	0.30° East	Database	WA_MPL_EASTERNS_Defn

Local coordinates		Grid coordinates		Geographic coordinates	
North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
-4.77	-0.28	1768593.19	14581176.54	40°08'54.9629"N	80°32'28.7339"W
		1768593.47	14581181.31	40°08'55.0100"N	80°32'28.7300"W
Facility Reference Pt					
Field Reference Pt					
			0.00		0°00'0.0000"
					85°29'19.4780"W

Calculation method	Minimum curvature	SDC 41 (RKB) to Facility Vertical Datum	1317.30ft
Horizontal Reference Pt	Slot	SDC 41 (RKB) to Mean Sea Level	1317.30ft
Vertical Reference Pt	SDC 41 (RKB)	SDC 41 (RKB) to Ground Level at Slot (Slot #08)	26.00ft
MD Reference Pt	SDC 41 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	155.94°

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Page 2 of 10

# Baker Hughes

Operator	SWN PRODUCTION COMPANY, LLC
Field	Ohio
Facility	Gary Kestner OHI Pad
Slot	Slot #08
	Wellbore
	AP/LEGAL
	Gary Kestner OHI 8H

**WELLPATH DATA (182 stations)** † = interpolated, ‡ = extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(ft)	(ft)	(ft)	(°)	(%/100ft)	(%/100ft)	(%/100ft)
1044.00	0.00	134.340	0.00	0.00	0.00	0.00	1768593.19	14581176.54	40°08'54.9629"N	80°32'28.7339"W	0.00	0.00	0.00	0.00	0.00
953.00	4.870	311.610	952.69	5.68	-5.09	2.53	1768595.71	14581171.45	40°08'54.9125"N	80°32'28.7017"W	5.68	153.610	3.35	3.31	9.44
863.00	1.890	303.110	862.86	10.41	-8.44	6.63	1768599.81	14581168.11	40°08'54.8792"N	80°32'28.6492"W	10.73	141.860	2.88	0.42	139.75
750.00	1.420	145.190	749.88	10.60	-8.31	7.39	1768600.57	14581168.24	40°08'54.8804"N	80°32'28.6393"W	11.12	138.350	0.20	-0.03	8.02
661.11	1.450	138.060	661.01	8.44	-6.57	6.01	1768599.19	14581169.98	40°08'54.8977"N	80°32'28.6570"W	8.90	137.542	0.45	-0.45	-1.89
650.00	1.500	138.270	649.91	8.17	-6.35	5.82	1768599.00	14581170.19	40°08'54.8998"N	80°32'28.6594"W	8.61	137.522	0.44	-0.44	-1.68
625.00	1.610	138.690	624.92	7.52	-5.84	5.37	1768598.55	14581170.70	40°08'54.9049"N	80°32'28.6652"W	7.93	137.439	0.59	-0.32	17.24
600.00	1.690	134.380	599.93	6.85	-5.32	4.87	1768598.06	14581171.22	40°08'54.9100"N	80°32'28.6715"W	7.22	137.534	0.87	-0.84	7.56
575.00	1.900	132.490	574.94	6.12	-4.78	4.30	1768597.49	14581171.76	40°08'54.9154"N	80°32'28.6788"W	6.43	138.039	0.66	-0.60	7.92
550.00	2.050	130.510	549.95	5.34	-4.21	3.66	1768596.85	14581172.33	40°08'54.9211"N	80°32'28.6871"W	5.58	139.053	1.29	-1.12	-19.00
525.00	1.770	135.260	524.97	4.57	-3.65	3.05	1768596.23	14581172.89	40°08'54.9267"N	80°32'28.6950"W	4.75	140.161	1.43	1.40	9.80
500.00	1.420	132.810	499.98	3.93	-3.17	2.55	1768595.74	14581173.38	40°08'54.9315"N	80°32'28.7013"W	4.06	141.186	2.43	2.04	-66.68
475.00	0.910	149.480	474.98	3.45	-2.78	2.22	1768595.41	14581173.76	40°08'54.9353"N	80°32'28.7055"W	3.56	141.451	0.44	0.44	-2.16
450.00	0.800	150.020	449.99	3.08	-2.46	2.03	1768595.22	14581174.08	40°08'54.9385"N	80°32'28.7079"W	3.19	140.486	0.85	0.80	23.68
425.00	0.600	144.100	424.99	2.77	-2.20	1.87	1768595.06	14581174.34	40°08'54.9410"N	80°32'28.7100"W	2.89	139.749	0.05	-0.04	3.12
400.00	0.610	143.320	399.99	2.52	-1.99	1.71	1768594.90	14581174.55	40°08'54.9431"N	80°32'28.7120"W	2.62	139.351	0.76	0.76	-2.48
375.00	0.420	143.940	374.99	2.30	-1.81	1.58	1768594.77	14581174.73	40°08'54.9449"N	80°32'28.7137"W	2.40	138.956	0.57	-0.08	-75.64
350.00	0.440	162.850	349.99	2.11	-1.64	1.49	1768594.68	14581174.90	40°08'54.9466"N	80°32'28.7148"W	2.22	137.748	0.37	0.00	48.00
325.00	0.440	150.850	324.99	1.92	-1.47	1.42	1768594.61	14581175.07	40°08'54.9483"N	80°32'28.7157"W	2.04	135.995	0.41	0.36	-29.68
300.00	0.350	158.270	299.99	1.75	-1.31	1.34	1768594.53	14581175.23	40°08'54.9498"N	80°32'28.7167"W	1.88	134.363	0.41	0.00	67.88
275.00	0.350	141.300	274.99	1.60	-1.18	1.27	1768594.46	14581175.36	40°08'54.9511"N	80°32'28.7177"W	1.73	133.036	0.16	-0.04	-25.16
250.00	0.360	147.590	249.99	1.45	-1.06	1.18	1768594.37	14581175.48	40°08'54.9524"N	80°32'28.7188"W	1.58	131.925	0.15	-0.04	23.12
225.00	0.370	141.810	224.99	1.29	-0.93	1.09	1768594.28	14581175.61	40°08'54.9537"N	80°32'28.7200"W	1.43	130.519	0.20	-0.12	24.28
200.00	0.400	135.740	199.99	1.13	-0.80	0.98	1768594.17	14581175.74	40°08'54.9549"N	80°32'28.7214"W	1.26	129.442	0.32	-0.12	40.40
175.00	0.430	125.640	175.00	0.97	-0.69	0.84	1768594.03	14581175.86	40°08'54.9561"N	80°32'28.7232"W	1.08	129.264	0.30	-0.24	22.72
150.00	0.490	119.960	150.00	0.80	-0.58	0.67	1768593.86	14581175.96	40°08'54.9571"N	80°32'28.7253"W	0.88	130.769	0.54	-0.44	-32.52
125.00	0.600	128.090	125.00	0.60	-0.44	0.47	1768593.66	14581176.10	40°08'54.9585"N	80°32'28.7279"W	0.65	133.081	0.26	0.00	-25.00
100.00	0.600	134.340	100.00	0.36	-0.27	0.28	1768593.47	14581176.27	40°08'54.9602"N	80°32'28.7304"W	0.39	134.340	0.81	0.81	0.00
26.00	0.000	134.340	26.00	0.00	0.00	0.00	1768593.19	14581176.54	40°08'54.9629"N	80°32'28.7339"W	0.00	0.000	0.00	0.00	0.00

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Page 3 of 10

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Field	Ohio
Facility	Gary Kestner OHI Pad
Slot	Slot #08
	Wellbore
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## WELLPATH DATA (182 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[°/100ft]	[°/100ft]	[°/100ft]
1135.00	6.070	273.780	1133.76	-6.66	3.56	-13.28	1768579.91	14581180.10	40°08'54.9987"N	80°32'28.9047"W	13.75	285.000	3.70	-0.23	-34.74
1125.00	6.750	230.810	1123.25	-9.51	0.53	-22.13	1768571.06	14581177.07	40°08'54.6692"N	80°32'29.0189"W	22.14	271.368	5.26	0.76	-47.74
1316.00	5.560	180.410	1313.78	-4.09	-7.26	-26.31	1768566.89	14581169.28	40°08'54.8924"N	80°32'29.0733"W	27.30	254.566	5.87	-1.31	-55.38
1407.00	2.480	126.610	1404.57	1.64	-12.85	-24.76	1768568.44	14581163.69	40°08'54.8372"N	80°32'29.0537"W	27.90	242.575	5.01	-3.38	-59.12
1497.00	61.960	1494.53	1494.53	3.26	-13.47	-22.18	1768571.02	14581163.08	40°08'54.8309"N	80°32'29.0205"W	25.95	238.734	2.53	-1.12	-71.83
1588.00	1.730	20.050	1585.49	2.19	-11.63	-20.68	1768572.52	14581164.91	40°08'54.8490"N	80°32'29.0010"W	23.73	240.649	1.29	0.29	-46.05
1678.00	1.640	335.940	1675.46	-0.08	-9.18	-20.74	1768572.46	14581167.37	40°08'54.8733"N	80°32'29.0016"W	22.68	246.130	1.41	-0.10	-49.01
1769.00	2.430	323.910	1766.40	-3.26	-6.43	-22.41	1768570.79	14581170.11	40°08'54.9005"N	80°32'29.0229"W	23.31	253.990	0.98	0.87	-13.22
1859.00	2.480	316.060	1856.32	-6.96	-3.49	-24.88	1768568.32	14581173.06	40°08'54.9297"N	80°32'29.0546"W	25.12	262.026	0.38	0.06	-8.72
1950.00	1.620	294.860	1947.26	-9.78	-1.53	-27.42	1768565.79	14581175.01	40°08'54.9492"N	80°32'29.0871"W	27.46	266.812	1.24	-0.95	-23.30
1982.00	1.710	285.860	1979.25	-10.43	-1.21	-28.29	1768564.92	14581175.33	40°08'54.9524"N	80°32'29.0982"W	28.31	267.558	0.86	0.28	-28.12
2072.00	2.150	277.720	2069.20	-12.18	-0.61	-31.25	1768561.95	14581175.93	40°08'54.9584"N	80°32'29.1364"W	31.26	268.877	0.57	0.49	-9.04
2163.00	2.260	275.940	2150.13	-13.98	-0.20	-34.73	1768568.48	14581176.34	40°08'54.9627"N	80°32'29.1811"W	34.73	269.674	0.14	0.12	-1.96
2253.00	1.210	273.980	2250.09	-15.31	0.05	-37.44	1768555.77	14581176.59	40°08'54.9653"N	80°32'29.2160"W	37.44	270.080	1.17	-1.17	-2.18
2344.00	0.290	38.350	2341.08	-15.87	0.30	-38.25	1768554.95	14581176.84	40°08'54.9678"N	80°32'29.2265"W	38.26	270.448	1.53	-1.01	136.67
2435.00	0.640	38.950	2432.08	-16.21	0.88	-37.79	1768555.41	14581177.41	40°08'54.9735"N	80°32'29.2205"W	37.80	271.327	0.38	0.38	0.66
2525.00	0.520	54.590	2522.07	-16.52	1.50	-37.14	1768556.06	14581178.04	40°08'54.9796"N	80°32'29.2121"W	37.17	272.317	0.22	-0.13	17.38
2616.00	0.440	42.760	2613.07	-16.73	2.00	-36.57	1768556.63	14581178.54	40°08'54.9845"N	80°32'29.2047"W	36.62	273.128	0.14	-0.09	-13.00
2706.00	0.540	37.240	2703.07	-17.07	2.59	-36.08	1768557.13	14581179.13	40°08'54.9903"N	80°32'29.1983"W	36.17	274.106	0.12	0.11	-6.13
2797.00	0.580	49.200	2794.06	-17.41	3.23	-35.47	1768557.73	14581179.77	40°08'54.9966"N	80°32'29.1905"W	35.62	275.207	0.14	0.04	13.14
2887.00	0.770	30.940	2884.06	-17.89	4.05	-34.81	1768558.39	14581180.59	40°08'55.0047"N	80°32'29.1820"W	35.05	276.633	0.32	0.21	-20.29
2978.00	0.690	38.030	2975.05	-18.50	5.00	-34.16	1768559.04	14581181.54	40°08'55.0141"N	80°32'29.1735"W	34.53	278.334	0.13	-0.09	7.79
3069.00	0.830	37.030	3066.04	-19.07	5.96	-33.43	1768559.77	14581182.50	40°08'55.0235"N	80°32'29.1640"W	33.96	280.113	0.15	0.15	-1.10
3159.00	0.910	32.230	3156.03	-19.78	7.09	-32.65	1768560.55	14581183.62	40°08'55.0346"N	80°32'29.1540"W	33.41	282.246	0.12	0.09	-5.33
3250.00	0.960	269.060	3247.02	-20.48	7.69	-33.03	1768560.17	14581184.22	40°08'55.0405"N	80°32'29.1588"W	33.91	283.099	1.81	0.05	-135.35
3340.00	2.390	260.470	3336.98	-21.25	7.36	-35.64	1768557.57	14581183.90	40°08'55.0375"N	80°32'29.1923"W	36.39	281.674	1.61	1.59	-9.54
3431.00	4.920	253.470	3427.79	-22.24	5.94	-41.25	1768551.96	14581182.48	40°08'55.0237"N	80°32'29.2647"W	41.67	278.192	2.82	2.78	-7.69
3522.00	7.260	255.820	3518.27	-23.74	3.42	-50.57	1768542.64	14581179.96	40°08'54.9993"N	80°32'29.3849"W	50.68	273.868	2.59	2.57	2.58
3612.00	9.510	257.500	3607.30	-26.22	0.43	-63.34	1768529.87	14581176.97	40°08'54.9704"N	80°32'29.5496"W	63.34	270.388	2.52	2.50	1.98
3703.00	11.050	260.330	3696.84	-29.98	-2.57	-79.30	1768513.93	14581173.97	40°08'54.9415"N	80°32'29.7552"W	79.34	268.140	1.81	1.69	3.55

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Page 4 of 10

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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(US ft)	(ft)	(ft)	(°)	(%/100ft)	(%/100ft)	(%/100ft)
3794.00	11.430	267.100	3786.10	-35.47	-4.42	-96.91	1768496.32	14581172.12	40°08'54.924"N	80°32'29.982"W	97.01	267.388	1.41	0.42	6.89
3884.00	12.730	267.280	3874.10	-42.30	-5.34	-115.72	1768477.51	14581171.20	40°08'54.916"N	80°32'30.224"W	115.85	267.357	1.45	1.44	0.20
3975.00	14.540	263.670	3962.54	-49.43	-7.08	-137.09	1768456.15	14581169.46	40°08'54.899"N	80°32'30.499"W	137.28	267.044	2.20	1.99	-3.97
4066.00	16.070	261.620	4050.31	-56.31	-10.17	-160.91	1768432.34	14581166.37	40°08'54.870"N	80°32'30.806"W	161.23	266.382	1.78	1.68	-2.25
4156.00	18.200	258.770	4136.31	-62.80	-14.73	-187.02	1768406.24	14581161.82	40°08'54.826"N	80°32'31.143"W	187.60	265.498	2.54	2.37	-3.17
4247.00	19.870	257.460	4222.33	-69.04	-20.85	-216.06	1768377.21	14581155.70	40°08'54.767"N	80°32'31.517"W	217.06	264.487	1.89	1.84	-1.44
4337.00	21.200	257.360	4306.61	-75.32	-27.73	-246.87	1768346.42	14581148.82	40°08'54.701"N	80°32'31.914"W	248.42	263.590	1.48	1.48	-0.11
4428.00	22.170	257.190	4391.17	-81.93	-35.14	-279.67	1768313.63	14581141.41	40°08'54.629"N	80°32'32.337"W	281.87	262.838	1.07	1.07	-0.19
4519.00	22.930	258.710	4475.21	-89.20	-42.42	-313.79	1768279.52	14581134.14	40°08'54.559"N	80°32'32.776"W	316.65	262.301	1.05	0.84	1.67
4609.00	24.100	260.390	4557.74	-97.66	-48.92	-349.11	1768244.22	14581127.64	40°08'54.497"N	80°32'33.232"W	352.52	262.023	1.50	1.30	1.87
4700.00	25.050	260.950	4640.49	-107.28	-55.05	-386.45	1768206.89	14581121.51	40°08'54.438"N	80°32'33.714"W	390.35	261.892	1.07	1.04	0.62
4791.00	23.590	259.010	4723.42	-116.70	-61.24	-423.41	1768169.94	14581115.32	40°08'54.379"N	80°32'34.190"W	427.82	261.770	1.66	-1.60	-1.03
4882.00	23.100	259.530	4806.97	-125.32	-67.64	-458.90	1768134.47	14581108.92	40°08'54.317"N	80°32'34.647"W	463.86	261.615	0.58	-0.54	-0.53
4972.00	24.290	264.300	4889.39	-135.30	-72.69	-494.68	1768098.70	14581103.88	40°08'54.269"N	80°32'35.109"W	499.99	261.640	2.51	1.32	5.30
5063.00	25.530	267.370	4971.92	-148.36	-75.45	-532.90	1768060.50	14581101.12	40°08'54.244"N	80°32'35.601"W	538.21	261.941	1.97	1.36	3.37
5154.00	26.250	268.020	5053.79	-163.09	-77.05	-572.60	1768020.81	14581099.52	40°08'54.230"N	80°32'36.112"W	577.76	262.337	0.85	0.79	0.71
5244.00	26.210	269.620	5134.52	-178.56	-77.87	-612.37	1767981.06	14581098.70	40°08'54.224"N	80°32'36.624"W	617.30	262.753	0.79	-0.04	1.78
5335.00	25.580	270.400	5216.39	-194.76	-77.86	-652.11	1767941.33	14581098.71	40°08'54.226"N	80°32'37.136"W	656.74	263.191	0.79	-0.69	0.86
5426.00	25.660	269.450	5298.44	-210.76	-77.91	-691.45	1767902.00	14581098.66	40°08'54.228"N	80°32'37.642"W	695.83	263.571	0.46	0.09	-1.04
5516.00	25.330	267.190	5379.68	-225.51	-79.04	-730.17	1767863.30	14581097.53	40°08'54.218"N	80°32'38.141"W	734.44	263.822	1.14	-0.37	-2.51
5607.00	24.370	267.590	5462.25	-239.49	-80.79	-768.37	1767825.11	14581095.78	40°08'54.203"N	80°32'38.633"W	772.61	263.998	1.07	-1.05	0.44
5697.00	23.530	268.330	5544.50	-253.18	-82.09	-804.88	1767788.62	14581094.48	40°08'54.192"N	80°32'39.104"W	809.06	264.176	0.99	-0.93	0.82
5788.00	23.550	269.450	5627.93	-267.36	-82.79	-841.22	1767752.29	14581093.78	40°08'54.187"N	80°32'39.572"W	845.28	264.379	0.51	0.02	1.26
5820.00	23.810	270.110	5657.23	-272.56	-82.83	-854.07	1767739.45	14581093.74	40°08'54.187"N	80°32'39.737"W	858.08	264.460	1.13	0.81	1.97
5860.00	24.530	272.160	5693.73	-279.54	-82.50	-870.44	1767723.08	14581094.07	40°08'54.191"N	80°32'39.948"W	874.34	264.585	2.76	1.80	5.13
5945.00	23.820	266.420	5771.28	-293.34	-82.91	-905.21	1767688.33	14581093.66	40°08'54.189"N	80°32'40.396"W	909.00	264.767	2.89	-0.84	-6.75
6036.00	21.590	260.670	5855.24	-304.03	-86.77	-940.08	1767653.47	14581089.80	40°08'54.153"N	80°32'40.845"W	944.08	264.726	3.45	-2.45	-6.32
6126.00	21.690	233.880	5939.10	-304.77	-99.29	-969.93	1767623.63	14581077.29	40°08'54.031"N	80°32'41.230"W	975.00	264.155	10.89	0.11	-29.77
6217.00	21.940	205.450	6023.95	-290.41	-124.30	-990.72	1767602.85	14581052.28	40°08'53.784"N	80°32'41.500"W	998.49	262.849	11.39	-0.25	-31.24
6308.00	27.060	191.470	6106.95	-262.70	-159.69	-1002.01	1767591.56	14581016.91	40°08'53.435"N	80°32'41.647"W	1014.66	260.945	8.79	6.18	-15.36

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# Actual Wellpath Report

Gary Kestner OHI 8H AWP Proj: 14552'

Page 5 of 10

# Baker Hughes

Operator	SWN PRODUCTION COMPANY, LLC
Field	Ohio
Facility	Gary Kestner OHI Pad
Slot	Slot #08
	Wellbore
	API/legal
	Gary Kestner OHI 8H

## WELLPATH DATA (182 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
6398.00	175.290	6184.58	-222.22	-204.92	-1004.03	1767589.55	14580917.70	40°08'52.9889"N	80°32'41.6768"W	1024.73	258.465	11.81	258.465	7.59	-17.98
6489.00	164.890	6256.78	-168.58	-259.24	-994.12	1767599.45	14580917.40	40°08'52.4516"N	80°32'41.5527"W	1027.36	255.384	10.54	255.384	7.95	-11.43
6579.00	159.100	6321.25	-106.20	-318.83	-974.57	1767619.00	14580857.83	40°08'51.8618"N	80°32'41.3049"W	1025.39	251.885	8.23	251.885	6.90	-6.43
6670.00	155.970	6376.75	-34.26	-385.27	-946.95	1767646.61	14580791.41	40°08'51.2038"N	80°32'40.9536"W	1022.32	247.861	11.35	247.861	11.02	-3.44
6760.00	156.040	6418.02	45.57	-458.21	-914.48	1767679.06	14580718.50	40°08'50.4813"N	80°32'40.5404"W	1022.86	243.886	11.74	243.886	11.74	0.08
6851.00	157.250	6445.52	132.22	-537.77	-880.15	1767713.37	14580638.98	40°08'49.6934"N	80°32'40.1035"W	1031.44	238.575	9.85	238.575	9.77	1.33
6942.00	159.020	6459.59	221.97	-621.13	-846.72	1767746.79	14580555.65	40°08'48.8679"N	80°32'39.6785"W	1050.11	233.737	9.55	233.737	9.35	1.95
7032.00	156.970	6463.87	311.78	-704.46	-813.04	1767780.46	14580472.35	40°08'48.0428"N	80°32'39.2503"W	1075.78	229.093	4.84	229.093	4.28	-2.28
7123.00	152.730	6465.07	402.74	-786.81	-774.38	1767819.11	14580390.03	40°08'47.2271"N	80°32'38.7579"W	1103.96	224.544	4.66	224.544	0.10	-4.66
7213.00	154.020	6465.77	492.64	-867.26	-734.05	1767859.42	14580309.61	40°08'46.4300"N	80°32'38.2439"W	1136.21	220.245	1.55	220.245	0.59	1.43
7304.00	152.140	6466.96	583.52	-948.39	-692.85	1767900.60	14580228.52	40°08'45.6262"N	80°32'37.7188"W	1174.52	216.150	2.42	216.150	-1.25	-2.07
7395.00	153.540	6468.57	674.37	-1029.34	-651.32	1767942.12	14580147.60	40°08'44.8242"N	80°32'37.1894"W	1218.10	212.324	1.68	212.324	0.67	1.54
7485.00	154.680	6469.40	764.32	-1110.30	-612.03	1767981.40	14580066.67	40°08'44.0221"N	80°32'36.6887"W	1267.81	208.865	1.33	208.865	0.41	1.27
7576.00	153.650	6469.94	855.27	-1192.20	-572.37	1768021.04	14579984.79	40°08'43.2107"N	80°32'36.1835"W	1322.48	205.646	1.13	205.646	0.00	-1.13
7666.00	154.820	6470.27	945.23	-1273.25	-533.25	1768060.14	14579903.78	40°08'42.4078"N	80°32'35.6851"W	1380.41	202.724	1.33	202.724	0.28	1.30
7757.00	155.610	6470.61	1036.22	-1355.87	-495.10	1768098.27	14579821.19	40°08'41.5895"N	80°32'35.1994"W	1443.44	200.060	0.91	200.060	-0.27	0.87
7848.00	156.350	6471.08	1127.19	-1439.61	-459.52	1768133.84	14579737.48	40°08'40.7601"N	80°32'34.7467"W	1511.17	197.703	3.01	197.703	0.10	3.01
7938.00	155.910	6470.77	1217.17	-1522.53	-424.55	1768168.80	14579654.59	40°08'39.9389"N	80°32'34.3019"W	1580.61	195.581	2.89	195.581	1.00	-2.71
8029.00	157.200	6470.25	1308.16	-1606.01	-388.34	1768204.99	14579571.14	40°08'39.1121"N	80°32'33.8412"W	1652.30	193.594	1.59	193.594	-0.71	1.42
8120.00	156.180	6471.18	1399.14	-1689.58	-352.34	1768240.99	14579487.61	40°08'38.2845"N	80°32'33.3831"W	1725.93	191.779	1.71	191.779	-1.29	-1.12
8210.00	156.190	6472.53	1489.13	-1771.91	-316.00	1768277.31	14579405.31	40°08'37.4691"N	80°32'32.9207"W	1799.86	190.112	0.69	190.112	0.69	0.01
8301.00	156.180	6473.17	1580.12	-1854.50	-277.81	1768315.48	14579322.75	40°08'36.6510"N	80°32'32.4344"W	1875.19	188.520	2.23	188.520	0.30	-2.21
8392.00	156.520	6474.37	1671.10	-1937.19	-239.86	1768353.42	14579240.09	40°08'35.8319"N	80°32'31.9513"W	1951.99	187.058	2.76	187.058	-1.01	2.57
8482.00	155.640	6475.60	1761.09	-2019.45	-203.38	1768389.89	14579157.86	40°08'35.0171"N	80°32'31.4869"W	2029.67	185.751	1.34	2029.67	0.92	-0.98
8573.00	156.790	6476.41	1852.08	-2102.72	-166.68	1768426.58	14579074.63	40°08'34.1924"N	80°32'31.0199"W	2109.32	184.532	1.30	2109.32	-0.31	1.26
8664.00	156.510	6477.32	1943.07	-2186.26	-130.61	1768462.63	14578991.12	40°08'33.3650"N	80°32'30.5610"W	2190.16	183.419	0.35	2190.16	0.18	-0.31
8754.00	156.350	6477.92	2033.06	-2268.75	-94.63	1768498.60	14578908.66	40°08'32.5480"N	80°32'30.1031"W	2270.72	182.388	0.29	2270.72	0.23	-0.18
8845.00	156.140	6478.64	2124.06	-2352.04	-57.97	1768535.24	14578825.40	40°08'31.7231"N	80°32'29.6367"W	2352.75	181.412	0.44	2352.75	-0.37	-0.23
8936.00	155.400	6479.59	2215.05	-2435.02	-20.63	1768572.57	14578742.46	40°08'30.9012"N	80°32'29.1613"W	2435.10	180.485	0.81	2435.10	0.04	-0.81
9026.00	156.190	6480.14	2305.05	-2517.10	16.27	1768609.46	14578660.40	40°08'30.0882"N	80°32'28.6917"W	2517.16	179.630	1.02	2517.16	0.51	0.88

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# Actual Wellpath Report

Gary Kestner OHI 8H AWP Proj: 14552

Page 6 of 10

# Baker Hughes

Operator	SWN PRODUCTION COMPANY, LLC
Field	Ohio
Facility	Gary Kestner OHI Pad
Slot	Slot #08

## WELLPATH DATA (182 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[ft]	[ft]	[ft]	[°]	[%/100ft]	[°/100ft]	[%/100ft]
9117.00	89.420	156.160	6480.69	2396.05	-2600.35	53.03	1768646.20	14578577.19	40°08'29.2637"N	80°32'28.2239"W	2600.89	178.832	0.51	-0.51	-0.03
9208.00	89.260	155.870	6481.74	2487.04	-2683.48	90.02	1768683.18	14578494.09	40°08'28.4403"N	80°32'27.7532"W	2684.99	178.079	0.36	-0.18	-0.32
9298.00	89.510	155.980	6482.71	2577.03	-2765.65	126.73	1768719.87	14578411.95	40°08'27.6264"N	80°32'27.2859"W	2768.55	177.376	0.30	0.28	0.12
9389.00	89.510	155.840	6483.49	2668.03	-2848.72	163.87	1768757.00	14578328.91	40°08'26.8036"N	80°32'26.8132"W	2853.43	176.708	0.15	0.00	-0.15
9480.00	89.850	156.130	6483.99	2759.03	-2931.84	200.91	1768794.02	14578245.82	40°08'25.9803"N	80°32'26.3419"W	2938.72	176.080	0.49	0.37	0.32
9570.00	89.880	156.350	6484.21	2849.03	-3014.21	237.17	1768830.27	14578163.48	40°08'25.1645"N	80°32'25.8805"W	3023.53	175.501	0.25	0.03	0.24
9661.00	88.980	155.330	6485.11	2940.02	-3097.24	274.41	1768867.50	14578080.49	40°08'24.3422"N	80°32'25.4065"W	3109.37	174.937	1.49	-0.99	-1.12
9752.00	89.450	155.230	6486.36	3031.01	-3179.89	312.46	1768905.53	14577997.87	40°08'23.5234"N	80°32'24.9220"W	3195.20	174.388	0.53	0.52	-0.11
9842.00	90.830	156.340	6486.14	3121.00	-3261.97	349.38	1768942.43	14577915.82	40°08'22.7105"N	80°32'24.4522"W	3280.62	173.887	1.97	1.53	1.23
9933.00	89.230	154.820	6486.09	3212.00	-3344.82	387.00	1768980.04	14577833.00	40°08'21.8898"N	80°32'23.9734"W	3367.13	173.400	2.43	-1.76	-1.67
10023.00	90.430	156.770	6486.36	3301.99	-3426.90	423.89	1769016.92	14577750.95	40°08'21.0768"N	80°32'23.5038"W	3453.02	172.949	2.54	1.33	2.17
10114.00	89.480	156.390	6486.43	3392.98	-3510.40	460.06	1769053.08	14577667.48	40°08'20.2498"N	80°32'23.0436"W	3540.42	172.534	1.12	-1.04	-0.42
10205.00	89.260	156.550	6487.43	3483.97	-3593.83	496.39	1769089.39	14577584.08	40°08'19.4235"N	80°32'22.5815"W	3627.95	172.136	0.30	-0.24	0.18
10296.00	89.630	156.950	6488.31	3574.96	-3677.44	532.31	1769125.30	14577500.51	40°08'18.5954"N	80°32'22.1245"W	3715.76	171.764	0.60	0.41	0.44
10386.00	89.540	156.770	6488.96	3664.94	-3760.20	567.68	1769160.65	14577417.79	40°08'17.7758"N	80°32'21.6747"W	3802.81	171.415	0.22	-0.10	-0.20
10477.00	89.600	156.410	6489.65	3755.94	-3843.70	603.83	1769196.79	14577334.31	40°08'16.9488"N	80°32'21.2148"W	3890.84	171.072	0.40	0.07	-0.40
10568.00	89.660	156.200	6490.23	3846.93	-3927.03	640.40	1769233.34	14577251.02	40°08'16.1235"N	80°32'20.7495"W	3978.90	170.738	0.24	0.07	-0.23
10658.00	89.780	157.290	6490.67	3936.92	-4009.72	675.93	1769268.86	14577168.86	40°08'15.3045"N	80°32'20.2975"W	4066.29	170.431	1.22	0.13	1.21
10749.00	89.320	155.540	6491.39	4027.91	-4093.11	712.34	1769305.26	14577085.00	40°08'14.4786"N	80°32'19.8343"W	4154.63	170.127	1.99	-0.51	-1.92
10840.00	89.420	155.690	6492.39	4118.90	-4175.98	749.91	1769342.81	14577002.16	40°08'13.6577"N	80°32'19.3562"W	4242.78	169.820	0.20	0.11	0.16
10930.00	89.660	156.300	6493.11	4208.90	-4258.20	786.52	1769379.41	14576919.97	40°08'12.8434"N	80°32'18.8903"W	4330.23	169.535	0.73	0.27	0.68
11021.00	89.880	156.180	6493.48	4299.90	-4341.48	823.19	1769416.06	14576836.72	40°08'12.0185"N	80°32'18.4238"W	4418.84	169.264	0.28	0.24	-0.13
11112.00	90.030	156.160	6493.55	4390.90	-4424.73	859.95	1769452.81	14576753.51	40°08'11.1940"N	80°32'17.9560"W	4507.52	169.002	0.17	0.16	-0.02
11202.00	89.750	156.230	6493.72	4480.90	-4507.07	896.28	1769489.12	14576671.20	40°08'10.3784"N	80°32'17.4938"W	4595.32	168.753	0.32	-0.31	0.08
11293.00	89.940	156.110	6493.97	4571.90	-4590.31	933.04	1769525.88	14576587.99	40°08'9.5539"N	80°32'17.0260"W	4684.18	168.510	0.25	0.21	-0.13
11384.00	90.520	156.800	6493.60	4662.89	-4673.73	969.39	1769562.21	14576504.60	40°08'8.7277"N	80°32'16.5635"W	4773.21	168.282	0.99	0.64	0.76
11474.00	90.950	154.930	6492.45	4752.88	-4755.85	1006.19	1769598.99	14576422.51	40°08'7.9143"N	80°32'16.0953"W	4861.13	168.054	2.13	0.48	-2.08
11565.00	90.150	156.510	6491.57	4843.87	-4838.80	1043.61	1769636.40	14576339.60	40°08'7.0927"N	80°32'15.6191"W	4950.06	167.829	1.95	-0.88	1.74
11656.00	90.150	155.940	6491.34	4934.87	-4922.08	1080.29	1769673.07	14576256.35	40°08'6.2679"N	80°32'15.1524"W	5039.23	167.621	0.63	0.00	-0.63
11746.00	89.750	156.000	6491.41	5024.87	-5004.28	1116.94	1769709.70	14576174.18	40°08'5.4537"N	80°32'14.6860"W	5127.41	167.418	0.45	-0.44	0.07

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# Actual Wellpath Report

Gary Kestner OHI 8H AWP Proj: 14552

Page 7 of 10

# Baker Hughes

Operator	SWN PRODUCTION COMPANY, LLC
Field	Ohio
Facility	Gary Kestner OHI Pad
Slot	Slot #08

## WELLPATH DATA (182 stations)

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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(ft)	(ft)	(ft)	(°)	(ft/100ft)	(°/100ft)	(°/100ft)
11837.00	90.370	155.850	6491.32	5115.87	-5087.36	1154.06	1769746.81	14576091.13	40°08'4.6308"N	80°32'14.2137"W	5216.62	167.219	0.70	0.68	-0.16
11928.00	89.170	154.760	6491.68	5206.86	-5170.03	1192.08	1769784.81	14576008.49	40°08'3.8118"N	80°32'13.7298"W	5305.68	167.016	1.78	-1.32	-1.20
12018.00	88.890	156.530	6493.21	5296.84	-5252.01	1229.19	1769821.91	14575926.54	40°08'2.9998"N	80°32'13.2575"W	5393.93	166.828	1.99	-0.31	1.97
12109.00	89.050	156.030	6494.84	5387.82	-5335.31	1265.79	1769858.49	14575843.28	40°08'2.1748"N	80°32'12.7919"W	5483.40	166.653	0.58	0.18	-0.55
12200.00	89.480	156.710	6496.01	5478.81	-5418.67	1302.26	1769894.95	14575759.95	40°08'1.3491"N	80°32'12.3279"W	5572.96	166.486	0.88	0.47	0.75
12291.00	88.950	156.000	6497.26	5569.80	-5502.02	1338.75	1769931.43	14575676.63	40°08'0.5236"N	80°32'11.8636"W	5662.55	166.325	0.97	-0.58	-0.78
12381.00	88.710	156.240	6499.10	5659.78	-5584.30	1375.18	1769967.84	14575594.38	40°07'59.7086"N	80°32'11.4002"W	5751.13	166.166	0.38	-0.27	0.27
12472.00	88.710	155.920	6501.14	5750.76	-5667.46	1412.07	1770004.72	14575511.25	40°07'58.8849"N	80°32'10.9309"W	5840.72	166.009	0.35	0.00	-0.35
12562.00	88.680	155.900	6503.19	5840.73	-5749.60	1448.79	1770041.43	14575429.14	40°07'58.0713"N	80°32'10.4636"W	5929.33	165.857	0.04	-0.03	-0.02
12653.00	89.630	156.350	6504.54	5931.72	-5832.81	1485.62	1770078.24	14575345.97	40°07'57.2472"N	80°32'9.9950"W	6019.03	165.711	1.16	1.04	0.49
12744.00	89.850	157.370	6504.95	6022.71	-5916.48	1521.38	1770113.99	14575262.32	40°07'56.4185"N	80°32'9.5403"W	6108.96	165.579	1.15	0.24	1.12
12834.00	90.220	157.200	6504.89	6112.68	-5999.50	1556.13	1770148.73	14575179.34	40°07'55.5963"N	80°32'9.0984"W	6198.03	165.459	0.45	0.41	-0.19
12925.00	89.820	156.970	6504.86	6203.68	-6083.01	1592.30	1770184.88	14575095.86	40°07'54.7692"N	80°32'8.6385"W	6287.95	165.331	1.42	-0.44	-1.35
13016.00	90.370	155.440	6504.71	6294.67	-6165.95	1629.74	1770222.30	14575012.96	40°07'53.9477"N	80°32'8.1620"W	6377.69	165.195	0.84	0.60	-0.58
13106.00	90.430	156.230	6504.08	6384.67	-6248.06	1666.58	1770259.13	14574930.88	40°07'53.1344"N	80°32'7.6933"W	6466.51	165.065	0.88	0.07	0.88
13197.00	90.340	156.260	6503.47	6475.67	-6331.35	1703.23	1770295.77	14574847.62	40°07'52.3094"N	80°32'7.2269"W	6556.44	164.943	0.10	-0.10	0.03
13288.00	90.400	158.850	6502.88	6566.62	-6415.44	1737.97	1770330.50	14574763.56	40°07'51.4766"N	80°32'6.7854"W	6646.69	164.842	2.85	0.07	2.85
13378.00	90.560	155.810	6502.14	6656.58	-6498.48	1772.66	1770365.17	14574680.55	40°07'50.6543"N	80°32'6.3444"W	6735.91	164.742	3.38	0.17	-3.38
13469.00	90.400	156.100	6501.38	6747.58	-6581.58	1809.73	1770402.23	14574597.48	40°07'49.8312"N	80°32'5.8727"W	6825.85	164.625	0.36	-0.16	0.32
13559.00	89.420	151.770	6501.52	6837.50	-6662.40	1849.27	1770441.75	14574516.69	40°07'49.0304"N	80°32'5.3692"W	6914.29	164.487	4.93	-1.09	-4.81
13650.00	90.060	152.780	6501.94	6928.31	-6742.95	1891.60	1770484.07	14574436.17	40°07'48.2322"N	80°32'4.8296"W	7003.26	164.330	1.31	0.70	1.11
13741.00	89.940	153.700	6501.94	7019.21	-6824.21	1932.58	1770525.02	14574354.95	40°07'47.4271"N	80°32'4.3076"W	7092.58	164.188	1.02	-0.13	1.01
13831.00	90.060	155.550	6501.87	7109.18	-6905.52	1971.14	1770563.58	14574273.67	40°07'46.6216"N	80°32'3.8166"W	7181.34	164.069	2.06	0.13	2.06
13922.00	90.030	155.830	6501.84	7200.18	-6988.45	2008.60	1770601.03	14574190.77	40°07'45.8001"N	80°32'3.3399"W	7271.38	163.964	0.31	-0.03	0.31
14013.00	89.970	155.660	6501.87	7291.18	-7071.42	2045.99	1770638.39	14574107.83	40°07'44.9783"N	80°32'2.8642"W	7361.46	163.863	0.20	-0.07	-0.19
14103.00	90.310	154.740	6501.65	7381.17	-7153.12	2083.74	1770676.13	14574026.16	40°07'44.1690"N	80°32'2.3837"W	7450.44	163.759	1.09	0.38	-1.02
14194.00	89.660	154.630	6501.67	7472.15	-7235.38	2122.65	1770715.02	14573943.93	40°07'43.3541"N	80°32'1.8884"W	7540.31	163.650	0.72	-0.71	-0.12
14284.00	89.880	154.800	6502.03	7562.13	-7316.75	2161.09	1770753.45	14573862.59	40°07'42.5480"N	80°32'1.3990"W	7629.23	163.545	0.31	0.24	0.19
14375.00	89.480	154.750	6502.54	7653.11	-7399.08	2199.87	1770792.22	14573780.30	40°07'41.7325"N	80°32'0.9053"W	7719.18	163.442	0.44	-0.44	-0.05
14466.00	89.880	154.870	6503.05	7744.09	-7481.42	2238.60	1770830.93	14573697.99	40°07'40.9167"N	80°32'0.4123"W	7809.16	163.342	0.46	0.44	0.13

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**Actual Wellpath Report**  
 Gary Kestner OHI 8H AWP Proj: 14552

**Baker Hughes**

Operator	SWN PRODUCTION COMPANY, LLC
Field	Ohio
Facility	Gary Kestner OHI Pad
Slot	Slot #08
Well	Gary Kestner OHI 8H
AP/Legal	
Wellbore	Gary Kestner OHI 8H AWP

**WELLPATH DATA (182 stations)** † = interpolated, ‡ = extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir	DLS	Build Rate	Turn Rate
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[us ft]	[us ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
14527.00	89.850	155.090	6503.19	7805.08	-7536.70	2264.40	1770856.72	14573642.73	40°07'40.3692"N	80°32'0.0839"W	7869.52	163.277	0.36	-0.05	0.36
14552.00†	89.850	155.090	6503.26	7830.08	-7559.37	2274.93	1770867.25	14573620.07	40°07'40.1446"N	80°31'59.9498"W	7894.26	163.251	0.00	0.00	0.00

**HOLE & CASING SECTIONS - Ret Wellbore: Gary Kestner OHI 8H AWP**      **Ret Wellpath: Gary Kestner OHI 8H AWP Proj: 14552**

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start EW [ft]	End N/S [ft]	End EW [ft]
20in Conductor	26.00	125.90	99.90	26.00	125.90	0.00	0.00	-0.45	0.48
17.5in Open Hole	125.90	760.00	634.10	125.90	759.87	-0.45	0.48	-8.49	7.51
13.375in Casing Surface	26.00	760.00	734.00	26.00	759.87	0.00	0.00	-8.49	7.51
12.25in Open Hole	760.00	2045.00	1285.00	759.87	2042.21	-8.49	7.51	-0.76	-30.28
9.625in Casing Intermediate	26.00	1982.00	1956.00	26.00	1979.25	0.00	0.00	-1.21	-28.29
8.75in Open Hole	2045.00	5885.00	3840.00	2042.21	5716.49	-0.76	-30.28	-82.26	-880.77
8.5in Open Hole	5885.00	14552.00	8667.00	5716.49	6503.26	-82.26	-880.77	-7559.37	2274.93
5.5in Casing Production	26.00	14552.00	14526.00	26.00	6503.26	0.00	0.00	-7559.37	2274.93

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# Actual Wellpath Report

Gary Kestner OHI 8H AWP Proj: 14552



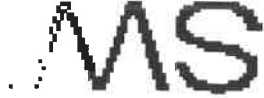
Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 8H
Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 8H AWB
Slot	Slot #08		

TARGETS									
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Shape	
Gary Kestner OHI 8H LP Rev-5	6458.63	-648.81	-823.57	1767769.93	14580527.98	40°08'48.5933"N	80°32'39.3823"W	point	
Gary Kestner OHI 8H BHL Rev-5	6590.83	-7564.35	2264.33	1770856.65	14573615.09	40°07'40.0959"N	80°32'0.0867"W	point	
Gary Kestner SE Unit	6999.30	-7372.32	3307.54	1771899.46	14573807.05	40°07'41.9392"N	80°31'46.6439"W	polygon	2D Polygon: dimensions not calculated
Gary Kestner SW Unit	6999.30	-7372.32	3307.54	1771899.46	14573807.05	40°07'41.9392"N	80°31'46.6439"W	polygon	2D Polygon: dimensions not calculated

Start MD (ft)	End MD (ft)	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	750.00	SDI Keeper v1.04	01 Scientific Gyro < 17 1/2" > (100'-750')	Gary Kestner OHI 8H AWB	2/20/2020
750.00	1982.00	CWSG MWD rev2 + HRGM	02 Premier MWD < 12 1/4" > (863'-1982')	Gary Kestner OHI 8H AWB	2/20/2020
1982.00	5820.00	CWSG MWD rev2 + HRGM	03 Premier MWD < 8 3/4" > (2072'-5820')	Gary Kestner OHI 8H AWB	2/21/2020
5820.00	14552.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve < 8 1/2" > (5860'-14527')	Gary Kestner OHI 8H AWB	2/21/2020

**WELLPATH COMPOSITION - Ref Wellbore: Gary Kestner OHI 8H AWB    Ref Wellpath: Gary Kestner OHI 8H AWP Proj: 14552'**

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# Actual Wellpath Report

Gary Kestner OHI 8H AWP Proj: 14552

Page 10 of 10

**Baker Hughes**

Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 8H
Field	Ohio	API/legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 8H AWB
Slot	Slot #08		

<b>COMMENTS</b>
Wellpath general comments API: 47-069-00324-0000 BH Job #: 110276116A Rig: SDC 41 Duration: 02/23/2020 - 02/26/2020

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