



# Actual Wellpath Report

Gary Kestner OHI 10H AWP Proj: 14880'  
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Office of Oil and Gas

AUG 14 2020

WV Department of  
Environmental Protection



REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 10H
Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 10H AWB
Slot	Slot #10		

REPORT SETUP INFORMATION			
Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Atenjen
Scale	0.999619	Report Generated	2/13/2020 at 8:30:25 AM
Convergence at slot	0.30° 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	-6.71	10.54	1768604.01	14581174.60	40°08'54.9432"N	80°32'28.5947"W
Facility Reference Pt			1768593.47	14581181.31	40°08'55.0100"N	80°32'28.7300"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM			
Calculation method	Minimum curvature	SDC 41 (RKB) to Facility Vertical Datum	1317.40ft
Horizontal Reference Pt	Slot	SDC 41 (RKB) to Mean Sea Level	1317.40ft
Vertical Reference Pt	SDC 41 (RKB)	SDC 41 (RKB) to Ground Level at Slot (Slot #10)	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	157.59°



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WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	62.720	0.00	0.00	0.00	0.00	1768604.01	14581174.60	40°08'54.9432"N	80°32'28.5947"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	62.720	26.00	0.00	0.00	0.00	1768604.01	14581174.60	40°08'54.9432"N	80°32'28.5947"W	0.00	0.000	0.00	0.00	0.00
100.00	0.940	62.720	100.00	-0.05	0.28	0.54	1768604.55	14581174.88	40°08'54.9459"N	80°32'28.5877"W	0.61	62.720	1.27	1.27	0.00
125.00	0.850	63.700	124.99	-0.08	0.45	0.89	1768604.90	14581175.05	40°08'54.9476"N	80°32'28.5832"W	1.00	62.902	0.37	-0.36	3.92
150.00	0.680	66.510	149.99	-0.10	0.60	1.19	1768605.20	14581175.20	40°08'54.9490"N	80°32'28.5793"W	1.33	63.415	0.70	-0.68	11.24
175.00	0.450	74.140	174.99	-0.09	0.68	1.42	1768605.43	14581175.28	40°08'54.9498"N	80°32'28.5763"W	1.58	64.371	0.97	-0.92	30.52
200.00	0.410	70.310	199.99	-0.07	0.74	1.60	1768605.61	14581175.34	40°08'54.9504"N	80°32'28.5740"W	1.76	65.213	0.20	-0.16	-15.32
225.00	0.310	86.510	224.99	-0.05	0.77	1.75	1768605.76	14581175.37	40°08'54.9507"N	80°32'28.5721"W	1.91	66.187	0.57	-0.40	64.80
250.00	0.300	91.150	249.99	0.00	0.78	1.88	1768605.89	14581175.38	40°08'54.9507"N	80°32'28.5704"W	2.04	67.624	0.11	-0.04	18.56
275.00	0.250	90.350	274.99	0.05	0.77	2.00	1768606.01	14581175.37	40°08'54.9507"N	80°32'28.5688"W	2.15	68.883	0.20	-0.20	-3.20
300.00	0.180	104.880	299.99	0.09	0.76	2.10	1768606.11	14581175.36	40°08'54.9506"N	80°32'28.5676"W	2.23	69.988	0.35	-0.28	58.12
325.00	0.260	110.260	324.99	0.16	0.73	2.19	1768606.20	14581175.33	40°08'54.9503"N	80°32'28.5664"W	2.31	71.457	0.33	0.32	21.52
350.00	0.300	134.390	349.99	0.25	0.67	2.29	1768606.30	14581175.27	40°08'54.9496"N	80°32'28.5652"W	2.38	73.713	0.49	0.16	96.52
375.00	0.290	142.710	374.99	0.38	0.57	2.37	1768606.38	14581175.17	40°08'54.9487"N	80°32'28.5641"W	2.44	76.440	0.18	-0.04	33.28
400.00	0.370	123.000	399.99	0.50	0.48	2.48	1768606.49	14581175.08	40°08'54.9478"N	80°32'28.5627"W	2.52	79.085	0.55	0.32	-78.84
425.00	0.350	131.500	424.99	0.64	0.38	2.60	1768606.61	14581174.98	40°08'54.9468"N	80°32'28.5611"W	2.63	81.622	0.23	-0.08	34.00
450.00	0.420	140.990	449.99	0.79	0.26	2.72	1768606.73	14581174.86	40°08'54.9456"N	80°32'28.5596"W	2.73	84.502	0.38	0.28	37.96
475.00	0.360	158.640	474.99	0.96	0.12	2.80	1768606.81	14581174.72	40°08'54.9442"N	80°32'28.5585"W	2.81	87.605	0.53	-0.24	70.60
500.00	0.740	129.240	499.98	1.18	-0.06	2.96	1768606.97	14581174.54	40°08'54.9424"N	80°32'28.5566"W	2.96	91.122	1.85	1.52	-117.60
525.00	0.790	121.350	524.98	1.46	-0.25	3.23	1768607.24	14581174.35	40°08'54.9405"N	80°32'28.5531"W	3.24	94.420	0.47	0.20	-31.56
550.00	1.070	129.100	549.98	1.81	-0.49	3.56	1768607.57	14581174.11	40°08'54.9382"N	80°32'28.5489"W	3.59	97.786	1.23	1.12	31.00
575.00	1.080	134.420	574.97	2.23	-0.80	3.91	1768607.92	14581173.80	40°08'54.9351"N	80°32'28.5444"W	3.99	101.550	0.40	0.04	21.28
600.00	0.950	130.840	599.97	2.63	-1.10	4.23	1768608.24	14581173.50	40°08'54.9321"N	80°32'28.5402"W	4.37	104.555	0.58	-0.52	-14.32
625.00	1.090	144.600	624.97	3.05	-1.43	4.53	1768608.54	14581173.17	40°08'54.9288"N	80°32'28.5365"W	4.75	107.509	1.12	0.56	55.04
650.00	1.310	151.880	649.96	3.56	-1.87	4.80	1768608.81	14581172.73	40°08'54.9244"N	80°32'28.5330"W	5.15	111.328	1.07	0.88	29.12
672.00	1.380	154.770	671.95	4.08	-2.34	5.03	1768609.04	14581172.27	40°08'54.9198"N	80°32'28.5300"W	5.55	114.901	0.44	0.32	13.14
768.00	1.630	163.520	767.92	6.59	-4.69	5.91	1768609.92	14581169.91	40°08'54.8965"N	80°32'28.5188"W	7.55	128.430	0.35	0.26	9.11
859.00	1.980	184.070	858.88	9.28	-7.50	6.17	1768610.18	14581167.10	40°08'54.8687"N	80°32'28.5157"W	9.71	140.568	0.80	0.38	22.58
967.00	2.540	216.230	966.80	12.20	-11.29	4.62	1768608.63	14581163.31	40°08'54.8313"N	80°32'28.5359"W	12.20	157.745	1.26	0.52	29.78
1058.00	3.300	219.870	1057.68	14.47	-14.93	1.75	1768605.76	14581159.68	40°08'54.7955"N	80°32'28.5731"W	15.03	173.314	0.86	0.84	-4.00



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Slot	Slot #10		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
1149.00	4.110	226.210	1148.49	16.88	-19.20	-2.28	1768601.73	14581155.41	40°08'54.7536"N	80°32'28.6253"W	19.33	186.783	1.00	0.89	6.97
1239.00	3.730	221.030	1238.28	19.36	-23.64	-6.53	1768597.48	14581150.97	40°08'54.7099"N	80°32'28.6804"W	24.52	195.451	0.58	-0.42	-5.76
1330.00	2.830	214.740	1329.13	21.90	-27.71	-9.76	1768594.26	14581146.90	40°08'54.6698"N	80°32'28.7221"W	29.38	199.394	1.06	-0.99	-6.91
1420.00	2.460	218.910	1419.03	24.03	-31.04	-12.24	1768591.78	14581143.57	40°08'54.6370"N	80°32'28.7543"W	33.37	201.512	0.46	-0.41	4.63
1511.00	1.000	241.220	1509.99	25.06	-32.95	-14.16	1768589.86	14581141.67	40°08'54.6183"N	80°32'28.7792"W	35.86	203.256	1.74	-1.60	24.52
1602.00	0.990	328.600	1600.98	24.37	-32.66	-15.26	1768588.75	14581141.96	40°08'54.6212"N	80°32'28.7934"W	36.05	205.052	1.51	-0.01	96.02
1692.00	1.570	338.460	1690.96	22.37	-30.85	-16.12	1768587.89	14581143.77	40°08'54.6392"N	80°32'28.8043"W	34.81	207.594	0.69	0.64	10.96
1783.00	1.310	340.350	1781.93	20.09	-28.71	-16.93	1768587.09	14581145.90	40°08'54.6603"N	80°32'28.8146"W	33.33	210.529	0.29	-0.29	2.08
1874.00	0.640	346.920	1872.91	18.54	-27.23	-17.39	1768586.62	14581147.38	40°08'54.6749"N	80°32'28.8205"W	32.31	212.568	0.75	-0.74	7.22
1964.00	0.470	20.860	1962.91	17.78	-26.40	-17.38	1768586.64	14581148.21	40°08'54.6832"N	80°32'28.8202"W	31.60	213.355	0.40	-0.19	37.71
2064.00	0.600	19.090	2062.91	17.09	-25.52	-17.06	1768586.96	14581149.09	40°08'54.6918"N	80°32'28.8160"W	30.70	213.762	0.13	0.13	-1.77
2161.00	0.620	15.320	2159.90	16.29	-24.53	-16.75	1768587.26	14581150.08	40°08'54.7016"N	80°32'28.8121"W	29.71	214.330	0.05	0.02	-3.89
2252.00	0.860	11.900	2250.89	15.34	-23.39	-16.48	1768587.53	14581151.22	40°08'54.7129"N	80°32'28.8085"W	28.62	215.173	0.27	0.26	-3.76
2343.00	0.970	7.650	2341.88	14.11	-21.96	-16.24	1768587.78	14581152.65	40°08'54.7270"N	80°32'28.8053"W	27.31	216.486	0.14	0.12	-4.67
2433.00	1.040	16.060	2431.87	12.81	-20.42	-15.91	1768588.10	14581154.19	40°08'54.7422"N	80°32'28.8009"W	25.89	217.930	0.18	0.08	9.34
2524.00	0.400	204.770	2522.86	12.38	-19.91	-15.82	1768588.20	14581154.69	40°08'54.7472"N	80°32'28.7997"W	25.43	218.460	1.58	-0.70	-188.23
2614.00	0.930	210.630	2612.86	13.03	-20.83	-16.32	1768587.69	14581153.78	40°08'54.7382"N	80°32'28.8062"W	26.46	218.084	0.59	0.59	6.51
2705.00	0.980	204.620	2703.84	14.01	-22.17	-17.02	1768586.99	14581152.44	40°08'54.7249"N	80°32'28.8153"W	27.95	217.516	0.12	0.05	-6.60
2796.00	0.950	189.940	2794.83	15.17	-23.62	-17.48	1768586.54	14581150.99	40°08'54.7106"N	80°32'28.8213"W	29.38	216.496	0.27	-0.03	-16.13
2887.00	1.000	187.280	2885.82	16.50	-25.15	-17.71	1768586.31	14581149.46	40°08'54.6955"N	80°32'28.8244"W	30.76	215.146	0.07	0.05	-2.92
2977.00	0.940	168.950	2975.81	17.91	-26.66	-17.67	1768586.35	14581147.95	40°08'54.6806"N	80°32'28.8239"W	31.98	213.533	0.35	-0.07	-20.37
3068.00	0.950	163.460	3066.79	19.39	-28.11	-17.31	1768586.71	14581146.50	40°08'54.6662"N	80°32'28.8194"W	33.01	211.619	0.10	0.01	-6.03
3159.00	0.850	160.800	3157.78	20.81	-29.47	-16.87	1768587.15	14581145.14	40°08'54.6528"N	80°32'28.8139"W	33.96	209.788	0.12	-0.11	-2.92
3249.00	0.700	175.160	3247.77	22.01	-30.65	-16.60	1768587.41	14581143.96	40°08'54.6411"N	80°32'28.8105"W	34.86	208.446	0.27	-0.17	15.96
3340.00	0.600	197.700	3338.77	22.90	-31.66	-16.70	1768587.31	14581142.95	40°08'54.6312"N	80°32'28.8119"W	35.79	207.816	0.30	-0.11	24.77
3431.00	1.810	297.760	3429.75	22.16	-31.44	-18.12	1768585.90	14581143.17	40°08'54.6334"N	80°32'28.8301"W	36.29	209.953	2.20	1.33	109.96
3521.00	3.750	315.920	3519.64	18.33	-28.67	-21.42	1768582.59	14581145.95	40°08'54.6610"N	80°32'28.8725"W	35.79	216.774	2.34	2.16	20.18
3612.00	5.440	323.250	3610.35	11.39	-23.07	-26.08	1768577.94	14581151.54	40°08'54.7165"N	80°32'28.9320"W	34.82	228.499	1.96	1.86	8.05
3702.00	6.450	329.370	3699.86	2.25	-15.30	-31.20	1768572.82	14581159.30	40°08'54.7935"N	80°32'28.9975"W	34.75	243.876	1.32	1.12	6.80
3793.00	7.990	330.760	3790.14	9.09	-5.39	-36.90	1768567.13	14581169.22	40°08'54.8918"N	80°32'29.0702"W	37.29	261.696	1.70	1.69	1.53





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3884.00	9.670	331.520	3880.06	-22.97	6.85	-43.63	1768560.39	14581181.45	40°08'55.0131"N	80°32'29.1561"W	44.17	278.925	1.85	1.85	0.84
3974.00	10.450	334.210	3968.67	-38.63	20.85	-50.79	1768553.24	14581195.44	40°08'55.1517"N	80°32'29.2473"W	54.90	292.315	1.01	0.87	2.99
4065.00	12.220	334.380	4057.90	-56.49	36.96	-58.54	1768545.49	14581211.55	40°08'55.3114"N	80°32'29.3461"W	69.24	302.266	1.95	1.95	0.19
4155.00	14.010	329.470	4145.55	-76.79	54.94	-68.20	1768535.84	14581229.51	40°08'55.4895"N	80°32'29.4692"W	87.57	308.853	2.34	1.99	-5.46
4246.00	15.220	327.690	4233.60	-99.46	74.52	-80.18	1768523.86	14581249.09	40°08'55.6836"N	80°32'29.6222"W	109.46	312.905	1.42	1.33	-1.96
4337.00	15.860	324.180	4321.28	-123.32	94.70	-93.84	1768510.21	14581269.26	40°08'55.8837"N	80°32'29.7968"W	133.32	315.261	1.25	0.70	-3.86
4427.00	16.880	321.340	4407.63	-147.83	114.87	-109.20	1768494.85	14581289.43	40°08'56.0839"N	80°32'29.9933"W	158.50	316.450	1.44	1.13	-3.16
4518.00	16.750	325.010	4494.74	-173.31	135.93	-124.97	1768479.08	14581310.48	40°08'56.2928"N	80°32'30.1950"W	184.65	317.405	1.18	-0.14	4.03
4609.00	16.050	328.680	4582.04	-198.54	157.42	-139.03	1768465.03	14581331.96	40°08'56.5059"N	80°32'30.3746"W	210.03	318.550	1.37	-0.77	4.03
4699.00	15.840	331.400	4668.58	-223.04	178.84	-151.38	1768452.69	14581353.37	40°08'56.7181"N	80°32'30.5322"W	234.31	319.753	0.86	-0.23	3.02
4790.00	15.870	329.250	4756.12	-247.70	200.43	-163.69	1768440.39	14581374.96	40°08'56.9322"N	80°32'30.6892"W	258.78	320.763	0.65	0.03	-2.36
4880.00	16.400	329.240	4842.57	-272.45	221.93	-176.48	1768427.60	14581396.44	40°08'57.1452"N	80°32'30.8525"W	283.54	321.508	0.59	0.59	-0.01
4971.00	17.240	326.730	4929.68	-298.40	244.24	-190.45	1768413.64	14581418.75	40°08'57.3665"N	80°32'31.0309"W	309.72	322.055	1.22	0.92	-2.76
5061.00	17.220	328.580	5015.64	-324.66	266.76	-204.71	1768399.38	14581441.26	40°08'57.5897"N	80°32'31.2131"W	336.25	322.498	0.61	-0.02	2.06
5152.00	16.940	327.550	5102.63	-351.02	289.44	-218.84	1768385.25	14581463.93	40°08'57.8146"N	80°32'31.3936"W	362.86	322.908	0.45	-0.31	-1.13
5243.00	17.120	329.330	5189.64	-377.32	312.15	-232.79	1768371.31	14581486.63	40°08'58.0397"N	80°32'31.5717"W	389.40	323.286	0.61	0.20	1.96
5333.00	16.950	324.740	5275.69	-403.23	334.26	-247.12	1768356.99	14581508.73	40°08'58.2589"N	80°32'31.7547"W	415.69	323.524	1.51	-0.19	-5.10
5424.00	17.430	325.170	5362.63	-429.47	356.28	-262.56	1768341.55	14581530.74	40°08'58.4773"N	80°32'31.9521"W	442.58	323.611	0.55	0.53	0.47
5515.00	16.100	321.640	5449.76	-454.91	377.36	-278.18	1768325.94	14581551.82	40°08'58.6864"N	80°32'32.1518"W	468.81	323.604	1.84	-1.46	-3.88
5605.00	7.980	325.910	5537.71	-473.06	392.35	-289.44	1768314.68	14581566.80	40°08'58.8350"N	80°32'32.2959"W	487.56	323.583	9.07	-9.02	4.74
5696.00	2.620	289.410	5628.31	-480.64	398.27	-294.95	1768309.17	14581572.72	40°08'58.8939"N	80°32'32.3664"W	495.60	323.477	6.68	-5.89	-40.11
5786.00	5.850	190.120	5718.13	-478.14	394.44	-297.70	1768306.43	14581568.89	40°08'58.8561"N	80°32'32.4021"W	494.17	322.957	7.54	3.59	-110.32
5877.00	12.840	164.130	5807.90	-464.16	380.12	-295.75	1768308.38	14581554.58	40°08'58.7146"N	80°32'32.3779"W	481.62	322.116	8.79	7.68	-28.56
5968.00	21.150	154.910	5894.86	-437.67	355.48	-286.00	1768318.12	14581529.95	40°08'58.4706"N	80°32'32.2540"W	456.25	321.182	9.57	9.13	-10.13
6058.00	27.250	150.960	5976.92	-400.95	322.73	-269.10	1768335.02	14581497.21	40°08'58.1461"N	80°32'32.0385"W	420.20	320.178	7.01	6.78	-4.39
6149.00	30.790	153.060	6056.49	-357.02	283.74	-248.42	1768355.68	14581458.23	40°08'57.7597"N	80°32'31.7749"W	377.12	318.797	4.05	3.89	2.31
6239.00	36.730	154.940	6131.28	-307.13	238.78	-226.57	1768377.53	14581413.29	40°08'57.3143"N	80°32'31.4964"W	329.17	316.504	6.70	6.60	2.09
6330.00	41.610	155.720	6201.81	-249.71	186.56	-202.60	1768401.48	14581361.09	40°08'56.7971"N	80°32'31.1913"W	275.41	312.639	5.39	5.36	0.86
6421.00	45.540	155.200	6267.72	-187.04	129.52	-176.55	1768427.53	14581304.07	40°08'56.2320"N	80°32'30.8596"W	218.96	306.264	4.34	4.32	-0.57
6511.00	55.290	156.790	6325.00	-117.79	66.21	-148.43	1768455.64	14581240.78	40°08'55.8050"N	80°32'30.5016"W	162.52	294.039	10.92	10.83	1.77



# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
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Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 10H AWB
Slot	Slot #10		

WELLPATH DATA (187 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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6602.00	60.260	157.680	6373.52	-40.84	-4.76	-118.66	1768485.39	14581169.84	40°08'54.9021"N	80°32'30.1231"W	118.76	267.702	5.52	5.46	0.98
6692.00	67.120	159.300	6413.38	39.78	-79.78	-89.13	1768514.91	14581094.85	40°08'54.1593"N	80°32'29.7478"W	119.63	228.168	7.79	7.62	1.80
6738.00	72.230	159.250	6429.36	82.88	-120.12	-73.87	1768530.16	14581054.53	40°08'53.7599"N	80°32'29.5540"W	141.01	211.592	11.11	11.11	-0.11
6783.00	74.920	158.940	6442.08	126.03	-160.43	-58.47	1768545.56	14581014.23	40°08'53.3607"N	80°32'29.3583"W	170.76	200.025	6.01	5.98	-0.69
6828.00	80.420	158.830	6451.69	169.96	-201.43	-42.64	1768561.38	14580973.25	40°08'52.9548"N	80°32'29.1572"W	205.89	191.953	12.22	12.22	-0.24
6873.00	85.940	159.330	6457.03	214.61	-243.15	-26.69	1768577.33	14580931.54	40°08'52.5417"N	80°32'28.9546"W	244.61	186.265	12.32	12.27	1.11
6897.00	87.620	159.100	6458.38	238.56	-265.55	-18.19	1768585.83	14580909.15	40°08'52.3199"N	80°32'28.8466"W	266.17	183.919	7.07	7.00	-0.96
6931.00	88.770	159.730	6459.45	272.53	-297.36	-6.24	1768597.77	14580877.35	40°08'52.0049"N	80°32'28.6948"W	297.43	181.203	3.86	3.38	1.85
7021.00	90.280	161.310	6460.19	362.40	-382.20	23.77	1768627.77	14580792.54	40°08'51.1650"N	80°32'28.3140"W	382.94	176.442	2.43	1.68	1.76
7112.00	90.490	159.810	6459.58	453.27	-468.01	54.05	1768658.04	14580706.77	40°08'50.3155"N	80°32'27.9297"W	471.12	173.412	1.66	0.23	-1.65
7203.00	89.820	156.910	6459.34	544.25	-552.59	87.61	1768691.58	14580622.22	40°08'49.4780"N	80°32'27.5033"W	559.49	170.991	3.27	-0.74	-3.19
7293.00	88.980	153.940	6460.28	634.17	-634.42	125.03	1768728.99	14580540.42	40°08'48.6675"N	80°32'27.0268"W	646.62	168.851	3.43	-0.93	-3.30
7384.00	89.140	153.660	6461.77	724.96	-716.06	165.20	1768769.15	14580458.81	40°08'47.8587"N	80°32'26.5150"W	734.87	167.009	0.35	0.18	-0.31
7475.00	88.550	154.700	6463.60	815.78	-797.96	204.83	1768808.76	14580376.95	40°08'47.0473"N	80°32'26.0102"W	823.83	165.604	1.31	-0.65	1.14
7565.00	89.380	154.470	6465.23	905.64	-879.23	243.45	1768847.36	14580295.70	40°08'46.2422"N	80°32'25.5183"W	912.31	164.523	0.96	0.92	-0.26
7656.00	89.350	156.400	6466.24	996.57	-961.99	281.27	1768885.17	14580212.98	40°08'45.4225"N	80°32'25.0367"W	1002.26	163.702	2.12	-0.03	2.12
7747.00	89.380	157.250	6467.25	1087.55	-1045.64	317.08	1768920.97	14580129.36	40°08'44.5940"N	80°32'24.5812"W	1092.66	163.130	0.93	0.03	0.93
7837.00	89.230	156.550	6468.34	1177.54	-1128.42	352.39	1768956.26	14580046.62	40°08'43.7742"N	80°32'24.1320"W	1182.16	162.657	0.80	-0.17	-0.78
7928.00	89.570	158.150	6469.29	1268.53	-1212.39	387.43	1768991.29	14579962.67	40°08'42.9426"N	80°32'23.6864"W	1272.79	162.278	1.80	0.37	1.76
8019.00	89.170	157.270	6470.29	1359.52	-1296.58	421.94	1769025.79	14579878.51	40°08'42.1088"N	80°32'23.2476"W	1363.51	161.974	1.06	-0.44	-0.97
8109.00	89.480	157.130	6471.35	1449.52	-1379.55	456.82	1769060.65	14579795.58	40°08'41.2872"N	80°32'22.8041"W	1453.21	161.678	0.38	0.34	-0.16
8200.00	89.350	156.780	6472.28	1540.51	-1463.28	492.44	1769096.26	14579711.88	40°08'40.4579"N	80°32'22.3510"W	1543.92	161.400	0.41	-0.14	-0.38
8291.00	89.910	157.410	6472.87	1631.50	-1547.10	527.85	1769131.66	14579628.09	40°08'39.6278"N	80°32'21.9005"W	1634.67	161.161	0.93	0.62	0.69
8381.00	89.720	157.040	6473.16	1721.50	-1630.08	562.69	1769166.49	14579545.14	40°08'38.8060"N	80°32'21.4574"W	1724.47	160.956	0.46	-0.21	-0.41
8472.00	89.080	157.580	6474.11	1812.49	-1714.04	597.79	1769201.58	14579461.22	40°08'37.9746"N	80°32'21.0111"W	1815.29	160.773	0.92	-0.70	0.59
8563.00	89.540	156.790	6475.21	1903.48	-1797.91	633.08	1769236.85	14579377.38	40°08'37.1440"N	80°32'20.5624"W	1906.11	160.602	1.00	0.51	-0.87
8653.00	88.250	156.940	6476.95	1993.45	-1880.65	668.43	1769272.19	14579294.67	40°08'36.3245"N	80°32'20.1127"W	1995.91	160.434	1.44	-1.43	0.17
8744.00	88.000	157.360	6479.92	2084.40	-1964.47	703.75	1769307.49	14579210.88	40°08'35.4944"N	80°32'19.6635"W	2086.72	160.290	0.54	-0.27	0.46
8835.00	88.710	156.780	6482.53	2175.36	-2048.24	739.19	1769342.92	14579127.14	40°08'34.6647"N	80°32'19.2128"W	2177.54	160.156	1.01	0.78	-0.64
8925.00	89.020	157.320	6484.32	2265.34	-2131.10	774.28	1769377.99	14579044.32	40°08'33.8441"N	80°32'18.7665"W	2267.40	160.033	0.69	0.34	0.60



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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 10H
Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 10H AWB
Slot	Slot #10		

WELLPATH DATA (187 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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9016.00	89.260	157.070	6485.68	2356.33	-2214.98	809.54	1769413.24	14578960.47	40°08'33.0135"N	80°32'18.3180"W	2358.28	159.923	0.38	0.26	-0.27
9107.00	89.260	156.990	6486.86	2447.31	-2298.76	845.05	1769448.74	14578876.73	40°08'32.1837"N	80°32'17.8664"W	2449.16	159.816	0.09	0.00	-0.09
9197.00	89.570	156.570	6487.78	2537.30	-2381.46	880.53	1769484.21	14578794.05	40°08'31.3646"N	80°32'17.4150"W	2539.03	159.708	0.58	0.34	-0.47
9288.00	89.570	156.920	6488.46	2628.29	-2465.07	916.46	1769520.12	14578710.48	40°08'30.5366"N	80°32'16.9580"W	2629.91	159.606	0.38	0.00	0.38
9379.00	89.820	156.850	6488.94	2719.28	-2548.76	952.19	1769555.83	14578626.82	40°08'29.7077"N	80°32'16.5036"W	2720.81	159.515	-0.29	0.27	-0.08
9469.00	89.910	157.080	6489.16	2809.27	-2631.58	987.40	1769591.03	14578544.03	40°08'28.8875"N	80°32'16.0557"W	2810.73	159.433	0.27	0.10	0.26
9560.00	89.600	157.100	6489.55	2900.27	-2715.40	1022.83	1769626.44	14578460.24	40°08'28.0573"N	80°32'15.6052"W	2901.65	159.360	0.34	-0.34	0.02
9651.00	89.380	156.420	6490.36	2991.25	-2799.02	1058.73	1769662.34	14578376.66	40°08'27.2292"N	80°32'15.1485"W	2992.56	159.281	0.79	-0.24	-0.75
9741.00	89.780	156.710	6491.02	3081.24	-2881.59	1094.52	1769698.12	14578294.12	40°08'26.4114"N	80°32'14.6932"W	3082.46	159.202	0.55	0.44	0.32
9832.00	89.820	157.640	6491.33	3172.23	-2965.46	1129.82	1769733.40	14578210.27	40°08'25.5808"N	80°32'14.2443"W	3173.40	159.143	1.02	0.04	1.02
9922.00	89.820	157.440	6491.62	3262.23	-3048.63	1164.21	1769767.77	14578127.13	40°08'24.7571"N	80°32'13.8071"W	3263.37	159.099	0.22	0.00	-0.22
10013.00	89.630	156.670	6492.05	3353.23	-3132.43	1199.68	1769803.23	14578043.37	40°08'23.9272"N	80°32'13.3560"W	3354.31	159.044	0.87	-0.21	-0.85
10103.00	89.940	156.900	6492.39	3443.22	-3215.15	1235.16	1769838.70	14577960.69	40°08'23.1080"N	80°32'12.9048"W	3444.24	158.985	0.43	0.34	0.26
10194.00	89.690	157.180	6492.68	3534.21	-3298.94	1270.66	1769874.18	14577876.93	40°08'22.2781"N	80°32'12.4533"W	3535.19	158.935	0.41	-0.27	0.31
10284.00	89.750	157.250	6493.12	3624.21	-3381.91	1305.51	1769909.02	14577793.98	40°08'21.4564"N	80°32'12.0101"W	3625.15	158.892	0.10	0.07	0.08
10375.00	89.970	156.970	6493.35	3715.21	-3465.74	1340.91	1769944.40	14577710.18	40°08'20.6261"N	80°32'11.5600"W	3716.10	158.848	0.39	0.24	-0.31
10466.00	89.820	156.820	6493.51	3806.20	-3549.45	1376.62	1769980.10	14577626.51	40°08'19.7972"N	80°32'11.1058"W	3807.05	158.802	0.23	-0.16	-0.16
10556.00	89.630	155.830	6493.95	3896.18	-3631.87	1412.76	1770016.22	14577544.12	40°08'18.9808"N	80°32'10.6461"W	3896.97	158.745	1.12	-0.21	-1.10
10647.00	89.820	156.880	6494.38	3987.15	-3715.23	1449.25	1770052.71	14577460.80	40°08'18.1552"N	80°32'10.1818"W	3987.89	158.690	1.17	0.21	1.15
10737.00	89.850	156.760	6494.64	4077.14	-3797.96	1484.68	1770088.12	14577378.09	40°08'17.3358"N	80°32'9.7312"W	4077.84	158.649	0.14	0.03	-0.13
10828.00	89.600	157.350	6495.08	4168.14	-3881.76	1520.15	1770123.58	14577294.33	40°08'16.5058"N	80°32'9.2801"W	4168.80	158.614	0.70	-0.27	0.65
10919.00	90.060	156.830	6495.35	4259.13	-3965.58	1555.58	1770158.99	14577210.54	40°08'15.6757"N	80°32'8.8296"W	4259.77	158.581	0.76	0.51	-0.57
11009.00	90.340	156.960	6495.03	4349.13	-4048.36	1590.89	1770194.30	14577127.79	40°08'14.8558"N	80°32'8.3804"W	4349.73	158.547	0.34	0.31	0.14
11100.00	90.460	157.680	6494.40	4440.12	-4132.32	1625.98	1770229.37	14577043.86	40°08'14.0243"N	80°32'7.9343"W	4440.71	158.521	0.80	0.13	0.79
11190.00	90.740	157.800	6493.46	4530.12	-4215.61	1660.07	1770263.45	14576960.61	40°08'13.1995"N	80°32'7.5010"W	4530.70	158.506	0.34	-0.31	0.13
11281.00	90.520	156.650	6492.46	4621.11	-4299.51	1695.30	1770298.66	14576876.74	40°08'12.3686"N	80°32'7.0531"W	4621.67	158.481	1.29	-0.24	-1.26
11372.00	90.460	156.620	6491.68	4712.09	-4383.04	1731.39	1770334.73	14576793.24	40°08'11.5413"N	80°32'6.5941"W	4712.62	158.445	0.07	-0.07	-0.03
11462.00	90.550	156.270	6490.88	4802.07	-4465.54	1767.35	1770370.68	14576710.77	40°08'10.7242"N	80°32'6.1366"W	4802.56	158.408	0.40	0.10	-0.39
11553.00	90.150	156.480	6490.33	4893.05	-4548.91	1803.82	1770407.14	14576627.43	40°08'9.8984"N	80°32'5.6727"W	4893.50	158.370	0.50	-0.44	0.23
11644.00	89.540	155.880	6490.57	4984.02	-4632.16	1840.57	1770443.87	14576544.22	40°08'9.0739"N	80°32'5.2052"W	4984.43	158.330	-0.94	-0.67	-0.86





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Slot	Slot #10		

WELLPATH DATA (187 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)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11734.00	89.420	156.240	6491.39	5073.98	-4714.41	1877.09	1770480.38	14576461.99	40°08'8.2592"N	80°32'4.7405"W	5074.36	158.290	0.42	-0.13	0.40
11825.00	89.450	156.920	6492.29	5164.96	-4797.91	1913.26	1770516.53	14576378.53	40°08'7.4322"N	80°32'4.2805"W	5165.32	158.259	0.75	0.03	0.75
11916.00	89.170	156.940	6493.38	5255.95	-4881.63	1948.91	1770552.17	14576294.84	40°08'6.6030"N	80°32'3.8271"W	5256.29	158.236	0.31	-0.31	0.02
12006.00	89.450	156.580	6494.47	5345.94	-4964.32	1984.42	1770587.67	14576212.18	40°08'5.7841"N	80°32'3.3755"W	5346.25	158.212	0.51	0.31	-0.40
12097.00	88.800	156.920	6495.86	5436.91	-5047.92	2020.34	1770623.57	14576128.62	40°08'4.9561"N	80°32'2.9187"W	5437.21	158.187	0.81	-0.71	0.37
12188.00	88.890	156.700	6497.69	5527.89	-5131.55	2056.17	1770659.39	14576045.02	40°08'4.1278"N	80°32'2.4631"W	5528.17	158.164	0.26	0.10	-0.24
12278.00	87.780	156.450	6500.31	5617.83	-5214.09	2091.93	1770695.14	14575962.50	40°08'3.3102"N	80°32'2.0082"W	5618.09	158.139	1.26	-1.23	-0.28
12369.00	87.970	156.410	6503.68	5708.75	-5297.45	2128.29	1770731.49	14575879.18	40°08'2.4847"N	80°32'1.5456"W	5708.99	158.112	0.21	0.21	-0.04
12460.00	88.490	156.840	6506.49	5799.70	-5380.94	2164.38	1770767.56	14575795.73	40°08'1.6577"N	80°32'1.0867"W	5799.92	158.088	0.74	0.57	0.47
12550.00	90.090	157.510	6507.61	5889.68	-5463.88	2199.29	1770802.45	14575712.81	40°08'0.8363"N	80°32'0.6429"W	5889.89	158.075	1.93	1.78	0.74
12641.00	90.000	156.660	6507.54	5980.68	-5547.70	2234.72	1770837.87	14575629.03	40°08'0.0062"N	80°32'0.1923"W	5980.88	158.059	0.94	-0.10	-0.93
12732.00	90.030	155.950	6507.51	6071.65	-5631.03	2271.29	1770874.43	14575545.73	40°07'59.1808"N	80°31'59.7272"W	6071.84	158.033	0.78	0.03	-0.78
12822.00	90.220	156.780	6507.32	6161.63	-5713.47	2307.37	1770910.50	14575463.31	40°07'58.3642"N	80°31'59.2682"W	6161.80	158.009	0.95	0.21	0.92
12913.00	90.090	157.280	6507.07	6252.63	-5797.26	2342.88	1770945.99	14575379.56	40°07'57.5344"N	80°31'58.8167"W	6252.78	157.995	0.57	-0.14	0.55
13004.00	90.490	156.990	6506.61	6343.62	-5881.11	2378.24	1770981.34	14575295.75	40°07'56.7040"N	80°31'58.3671"W	6343.77	157.982	0.54	0.44	-0.32
13094.00	89.820	156.480	6506.37	6433.61	-5963.79	2413.79	1771016.87	14575213.10	40°07'55.8851"N	80°31'57.9151"W	6433.75	157.965	0.94	-0.74	-0.57
13185.00	89.750	156.400	6506.71	6524.59	-6047.20	2450.16	1771053.23	14575129.72	40°07'55.0589"N	80°31'57.4524"W	6524.72	157.944	0.12	-0.08	-0.09
13276.00	90.520	156.240	6506.49	6615.57	-6130.54	2486.71	1771089.77	14575046.41	40°07'54.2335"N	80°31'56.9875"W	6615.68	157.921	0.86	0.85	-0.18
13366.00	90.340	156.270	6505.82	6705.54	-6212.92	2522.95	1771125.99	14574964.06	40°07'53.4175"N	80°31'56.5266"W	6705.64	157.899	0.20	-0.20	0.03
13457.00	90.460	156.520	6505.18	6796.52	-6296.30	2559.39	1771162.42	14574880.71	40°07'52.5916"N	80°31'56.0631"W	6796.61	157.879	0.30	0.13	0.27
13547.00	90.580	157.090	6504.37	6886.51	-6379.02	2594.83	1771197.85	14574798.02	40°07'51.7723"N	80°31'55.6124"W	6886.59	157.865	0.65	0.13	0.63
13638.00	90.430	156.870	6503.56	6977.50	-6462.77	2630.42	1771233.42	14574714.30	40°07'50.9429"N	80°31'55.1599"W	6977.57	157.853	0.29	-0.16	-0.24
13729.00	90.340	156.500	6502.95	7068.49	-6546.34	2666.43	1771269.42	14574630.77	40°07'50.1152"N	80°31'54.7019"W	7068.55	157.838	0.42	-0.10	-0.41
13820.00	90.340	156.130	6502.41	7159.46	-6629.67	2702.99	1771305.96	14574547.47	40°07'49.2898"N	80°31'54.2370"W	7159.52	157.819	0.41	0.00	-0.41
13910.00	90.520	156.610	6501.74	7249.44	-6712.12	2739.06	1771342.02	14574465.05	40°07'48.4731"N	80°31'53.7782"W	7249.49	157.801	0.57	0.20	0.53
14001.00	90.250	156.570	6501.12	7340.42	-6795.63	2775.22	1771378.16	14574381.57	40°07'47.6460"N	80°31'53.3184"W	7340.47	157.786	0.30	-0.30	-0.04
14091.00	90.060	156.860	6500.88	7430.41	-6878.30	2810.79	1771413.73	14574298.93	40°07'46.8272"N	80°31'52.8660"W	7430.45	157.773	0.39	-0.21	0.32
14182.00	90.310	156.350	6500.59	7521.40	-6961.82	2846.93	1771449.84	14574215.45	40°07'46.0000"N	80°31'52.4065"W	7521.43	157.759	0.62	0.27	-0.56
14273.00	89.720	156.280	6500.56	7612.37	-7045.15	2883.48	1771486.39	14574132.15	40°07'45.1746"N	80°31'51.9415"W	7612.40	157.741	0.65	-0.65	-0.08
14364.00	89.940	156.680	6500.83	7703.36	-7128.59	2919.80	1771522.69	14574048.74	40°07'44.3482"N	80°31'51.4797"W	7703.38	157.727	0.50	0.24	0.44



# Actual Wellpath Report

Gary Kestner OHI 10H AWP Proj: 14880'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 10H
Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 10H AWB
Slot	Slot #10		

WELLPATH DATA (187 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]	Build Rate [°/100ft]	Turn Rate [°/100ft]
14454.00	89.720	156.600	6501.10	7793.34	-7211.22	2955.48	1771558.36	14573966.15	40°07'43.5299"N	80°31'51.0259"W	7793.36	157.714	0.26	-0.24	-0.09
14545.00	89.880	156.730	6501.42	7884.33	-7294.77	2991.53	1771594.39	14573882.62	40°07'42.7023"N	80°31'50.5676"W	7884.35	157.702	0.23	0.18	0.14
14636.00	89.910	156.830	6501.59	7975.32	-7378.40	3027.40	1771630.25	14573799.03	40°07'41.8740"N	80°31'50.1114"W	7975.34	157.691	0.11	0.03	0.11
14726.00	90.000	156.430	6501.66	8065.31	-7461.02	3063.10	1771665.94	14573716.44	40°07'41.0557"N	80°31'49.6574"W	8065.32	157.679	0.46	0.10	-0.44
14817.00	89.880	156.490	6501.75	8156.29	-7544.44	3099.45	1771702.27	14573633.05	40°07'40.2294"N	80°31'49.1952"W	8156.30	157.666	0.15	-0.13	0.07
14855.00	89.940	156.790	6501.81	8194.29	-7579.33	3114.52	1771717.33	14573598.18	40°07'39.8839"N	80°31'49.0036"W	8194.29	157.661	0.81	0.16	0.79
14880.00‡	89.940	156.790	6501.84	8219.28	-7602.31	3124.37	1771727.18	14573575.21	40°07'39.6563"N	80°31'48.8783"W	8219.29	157.658	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Gary Kestner OHI 10H AWB Ref Wellpath: Gary Kestner OHI 10H AWP Proj: 14880'									
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	100.00	74.00	26.00	100.00	0.00	0.00	0.28	0.54
17.5in Open Hole	100.00	738.00	638.00	100.00	737.93	0.28	0.54	-3.90	5.66
13.375in Casing Surface	26.00	738.00	712.00	26.00	737.93	0.00	0.00	-3.90	5.66
12.25in Open Hole	738.00	2045.00	1307.00	737.93	2043.91	-3.90	5.66	-25.70	-17.12
9.625in Casing Intermediate	26.00	2045.00	2019.00	26.00	2043.91	0.00	0.00	-25.70	-17.12
8.75in Open Hole	2045.00	6965.00	4920.00	2043.91	6460.01	-25.70	-17.12	-329.31	5.37
8.5in Open Hole	6965.00	14880.00	7915.00	6460.01	6501.84	-329.31	5.37	-7602.31	3124.37
5.5in Casing Production	26.00	14880.00	14854.00	26.00	6501.84	0.00	0.00	-7602.31	3124.37





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Gary Kestner OHI 10H AWP Proj: 14880'  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Gary Kestner OHI 10H
Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 10H AWB
Slot	Slot #10		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Gary Kestner OHI 10H LP Rev-3	6457.00	-239.23	-26.36	1768577.66	14580935.46	40°08'52.5804"N	80°32'28.9500"W	point
Gary Kestner OHI 10H BHL Rev-3	6598.80	-7598.17	3134.06	1771736.87	14573579.34	40°07'39.6967"N	80°31'48.7533"W	point
Gary Kestner SE Unit	6999.40	-7370.37	3296.71	1771899.46	14573807.05	40°07'41.9392"N	80°31'46.6439"W	2D Polygon: dimensions not calculated polygon
Gary Kestner SW Unit	6999.40	-7370.37	3296.71	1771899.46	14573807.05	40°07'41.9392"N	80°31'46.6439"W	2D Polygon: dimensions not calculated polygon

WELLPATH COMPOSITION - Ref Wellbore: Gary Kestner OHI 10H AWB Ref Wellpath: Gary Kestner OHI 10H AWP Proj: 14880'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	672.00	Gyrodatta 2015 - GC+WIR+DPIPE	01_Gyrodatta GC WIR DPIPE <17 1/2"> (100'-672')	Gary Kestner OHI 10H AWB	2/9/2020
672.00	1964.00	OWSG MWD rev2 + HRGM	02_Premier MWD <12 1/4"> (768'-1964')	Gary Kestner OHI 10H AWB	2/9/2020
1964.00	6897.00	OWSG MWD rev2 + HRGM	03_Premier MWD <8 3/4"> (2064'-6897')	Gary Kestner OHI 10H AWB	2/9/2020
6897.00	14880.00	BH AutoTrak Curve (2019) (Short spacing)	04_BH AT Curve <8 1/2"> (6931'-14855')	Gary Kestner OHI 10H AWB	2/9/2020



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REFERENCE WELLPATH IDENTIFICATION			
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Field	Ohio	API/Legal	
Facility	Gary Kestner OHI Pad	Wellbore	Gary Kestner OHI 10H AWB
Slot	Slot #10		

**COMMENTS**

Wellpath general comments  
API: 47-069-00307-0000  
BH Job #: 110186743A  
Rig: SDC 41  
Duration: 02/10/2020 - 02/12/2020