

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Well	Edward Dremak OHI 8H
Field	Ohio	API/Legal	Edward Dremak OHI 8H
Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 8H AWB
Slot	Slot #8H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Atenjen
Scale	0.999611	Report Generated	12/23/2019 at 8:24:59 AM
Convergence at slot	0.22° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

Slot Location	North[ft]	9.52	East[ft]	19.35	Easting[US ft]	1737760.17	Northing[US ft]	14584713.85	Latitude	40°09'31.3163"N	Longitude	80°39'5.7613"W
	Facility Reference Pt				1737740.83	14584704.33	40°09'31.2230"N	80°39'6.0110"W	Field Reference Pt			
Field Reference Pt					0.00	0.00	0°00'0.0000"	85°29'19.4780"W				

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 42 (KB) to Facility Vertical Datum	1114.00ft
Horizontal Reference Pt	Slot	SDC 42 (KB) to Mean Sea Level	1114.00ft
Vertical Reference Pt	SDC 42 (KB)	SDC 42 (KB) to Ground Level at Slot (Slot #8H)	26.00ft
MD Reference Pt	SDC 42 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	162.06°

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WELLPATH DATA (226 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/100ft)	(ft/100ft)	(°/100ft)
26.00	0.000	171.880	26.00	0.00	0.00	0.00	1737760.17	14584713.84	40°09'31.3163"N	80°39'5.7613"W	0.00	0.00	0.00	0.00	0.00
152.00	0.280	171.880	152.00	0.30	-0.30	0.04	1737760.21	14584713.54	40°09'31.3133"N	80°39'5.7608"W	0.31	171.880	0.22	0.22	0.00
212.00	0.390	167.190	212.00	0.65	-0.65	0.11	1737760.28	14584713.20	40°09'31.3099"N	80°39'5.7599"W	0.66	170.426	0.19	0.18	-7.82
301.00	0.060	202.300	301.00	0.99	-0.99	0.16	1737760.33	14584712.86	40°09'31.3065"N	80°39'5.7593"W	1.00	170.856	0.39	-0.37	39.45
396.00	0.170	276.230	396.00	0.97	-1.02	0.00	1737760.17	14584712.83	40°09'31.3062"N	80°39'5.7614"W	1.02	180.002	0.17	0.12	77.82
427.00	0.230	276.650	427.00	0.93	-1.01	-0.11	1737760.06	14584712.84	40°09'31.3064"N	80°39'5.7627"W	1.01	186.102	0.19	0.19	-1.87
518.00	0.780	108.090	518.00	1.22	-1.18	0.30	1737760.47	14584712.66	40°09'31.3046"N	80°39'5.7575"W	1.22	165.782	1.11	0.60	-184.13
609.00	1.950	105.360	608.97	2.43	-1.78	2.38	1737762.55	14584712.06	40°09'31.2986"N	80°39'5.7307"W	2.98	126.840	1.29	1.29	-3.00
701.00	2.030	98.650	700.91	4.02	-2.44	5.50	1737765.67	14584711.40	40°09'31.2919"N	80°39'5.6906"W	6.02	113.950	0.27	0.09	-7.29
793.00	1.460	73.810	792.87	4.78	-2.36	8.24	1737768.40	14584711.48	40°09'31.2926"N	80°39'5.6553"W	8.57	105.998	1.02	-0.62	-27.00
882.00	1.620	40.520	881.84	4.16	-1.09	10.14	1737770.31	14584712.76	40°09'31.3051"N	80°39'5.6307"W	10.20	96.130	1.01	0.18	-37.40
974.00	0.930	19.990	973.82	2.89	0.60	11.24	1737771.41	14584714.45	40°09'31.3218"N	80°39'5.6164"W	11.26	86.941	0.89	-0.75	-22.32
1065.00	0.630	330.290	1064.81	1.82	1.73	11.25	1737771.41	14584715.57	40°09'31.3330"N	80°39'5.6163"W	11.38	81.260	0.78	-0.33	-54.62
1157.00	0.640	312.120	1156.80	0.88	2.51	10.62	1737770.78	14584716.36	40°09'31.3407"N	80°39'5.6244"W	10.91	76.682	0.22	0.01	-19.75
1246.00	0.630	303.170	1245.80	0.13	3.07	9.90	1737770.07	14584716.92	40°09'31.3463"N	80°39'5.6336"W	10.37	72.768	0.16	-0.12	-10.06
1336.00	0.520	307.800	1335.80	-0.53	3.55	9.23	1737769.40	14584717.39	40°09'31.3510"N	80°39'5.6422"W	9.89	68.669	0.05	-0.01	5.14
1425.00	0.620	300.310	1424.79	-1.23	4.04	8.50	1737768.66	14584717.88	40°09'31.3559"N	80°39'5.6516"W	9.41	64.570	0.14	0.11	-8.42
1514.00	0.680	289.350	1513.79	-1.91	4.46	7.58	1737767.75	14584718.30	40°09'31.3601"N	80°39'5.6634"W	8.80	59.549	0.15	0.07	-12.31
1598.00	0.930	284.800	1597.78	-2.58	4.80	6.45	1737766.62	14584718.64	40°09'31.3635"N	80°39'5.6779"W	8.04	53.376	0.31	0.30	-5.42
1696.00	1.300	279.470	1695.76	-3.52	5.18	4.59	1737764.76	14584719.03	40°09'31.3673"N	80°39'5.7019"W	6.92	41.517	0.39	0.38	-5.44
1784.00	2.020	203.300	1783.73	-2.81	3.92	2.99	1737763.16	14584717.77	40°09'31.3550"N	80°39'5.7226"W	4.93	37.317	2.41	0.82	-86.56
1873.00	4.420	170.150	1872.59	1.76	-0.90	2.96	1737763.12	14584712.95	40°09'31.3073"N	80°39'5.7233"W	3.09	106.877	3.31	2.70	-37.25
1962.00	6.740	157.360	1961.17	10.37	-9.10	5.55	1737765.72	14584704.75	40°09'31.2262"N	80°39'5.6902"W	10.66	148.594	2.94	2.61	-14.37
2053.00	7.460	146.260	2051.47	21.37	-18.94	10.89	1737771.06	14584694.91	40°09'31.1287"N	80°39'5.6220"W	21.85	150.098	1.70	0.79	-12.20
2143.00	7.330	136.270	2140.73	32.17	-27.95	18.11	1737778.27	14584685.91	40°09'31.0394"N	80°39'5.5295"W	33.30	147.062	1.43	-0.14	-11.10
2232.00	7.230	130.720	2229.01	42.06	-35.70	26.28	1737786.43	14584678.16	40°09'30.9625"N	80°39'5.4247"W	44.33	143.649	0.80	-0.11	-6.24
2322.00	7.000	140.190	2318.32	51.99	-43.61	34.08	1737794.23	14584670.25	40°09'30.8840"N	80°39'5.3246"W	55.35	141.995	1.33	-0.26	10.52
2411.00	7.380	140.030	2406.62	62.32	-52.16	41.22	1737801.38	14584661.71	40°09'30.7993"N	80°39'5.2330"W	66.48	141.679	0.43	0.43	-0.18
2501.00	5.790	134.620	2496.02	71.71	-59.78	48.17	1737808.32	14584654.09	40°09'30.7237"N	80°39'5.1439"W	76.48	141.138	1.89	-1.77	-6.01

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WELLPATH DATA (226 stations)

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	DLS	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(N)	(W)	(ft)	(%/100ft)	(%/100ft)	(%/100ft)
2591.00	5.470	129.520	2585.59	79.35	-65.69	54.71	1737814.86	14584648.18	40°09'30.6650"N	80°39'5.0600"W	85.49	140.214	0.66	-0.36
2680.00	5.470	120.550	2674.19	86.10	-70.55	61.63	1737821.78	14584643.32	40°09'30.6167"N	80°39'4.9711"W	93.68	138.859	0.96	0.00
2770.00	5.510	135.840	2763.78	93.19	-75.83	68.34	1737828.48	14584638.04	40°09'30.5643"N	80°39'4.8850"W	102.08	137.975	1.62	0.04
2860.00	5.570	136.410	2853.36	101.01	-82.09	74.36	1737834.50	14584631.78	40°09'30.5022"N	80°39'4.8077"W	110.77	137.830	0.09	0.07
2950.00	5.550	133.090	2942.94	108.75	-88.23	80.55	1737840.69	14584625.65	40°09'30.4413"N	80°39'4.7283"W	119.47	137.606	0.36	-0.02
3039.00	5.530	129.390	3031.52	116.13	-93.89	87.01	1737847.14	14584619.99	40°09'30.3851"N	80°39'4.6454"W	128.01	137.180	0.40	-0.02
3129.00	5.690	123.000	3121.09	123.24	-99.07	94.10	1737854.23	14584614.81	40°09'30.3336"N	80°39'4.5543"W	136.64	136.475	0.72	0.18
3219.00	6.050	128.390	3210.62	130.65	-104.45	101.56	1737861.69	14584609.44	40°09'30.2802"N	80°39'4.4586"W	145.69	135.804	0.73	0.40
3309.00	6.300	123.680	3300.10	138.47	-110.13	109.39	1737869.51	14584603.75	40°09'30.2237"N	80°39'4.3580"W	155.22	135.195	0.63	0.28
3398.00	6.510	135.540	3388.54	148.81	-116.44	116.98	1737877.11	14584597.45	40°09'30.1611"N	80°39'4.2605"W	165.06	134.867	1.50	0.24
3488.00	6.450	132.020	3477.97	155.76	-123.47	124.31	1737884.43	14584589.43	40°09'30.0914"N	80°39'4.1665"W	175.21	134.805	0.45	-0.07
3578.00	6.360	127.260	3567.41	164.23	-129.87	132.04	1737892.15	14584584.03	40°09'30.0278"N	80°39'4.0673"W	185.20	134.526	0.60	-0.10
3668.00	6.350	137.790	3656.86	172.86	-136.57	139.35	1737899.46	14584577.32	40°09'29.9613"N	80°39'3.9735"W	195.12	134.424	1.29	-0.01
3757.00	6.280	133.280	3745.32	181.61	-143.56	146.20	1737906.31	14584570.34	40°09'29.8920"N	80°39'3.8856"W	204.90	134.478	0.56	-0.08
3847.00	5.680	138.500	3834.83	190.01	-150.27	152.73	1737912.84	14584563.64	40°09'29.8254"N	80°39'3.8018"W	214.26	134.534	0.90	-0.67
3937.00	5.220	134.030	3924.42	197.70	-156.45	158.63	1737918.73	14584557.46	40°09'29.7641"N	80°39'3.7262"W	222.80	134.604	0.70	-0.51
4026.00	6.120	132.730	4012.99	205.41	-162.48	165.02	1737925.13	14584551.43	40°09'29.7043"N	80°39'3.6441"W	231.59	134.555	1.02	-1.46
4116.00	7.420	134.270	4102.36	214.74	-169.79	172.71	1737932.81	14584544.12	40°09'29.6317"N	80°39'3.5455"W	242.20	134.512	1.46	1.44
4206.00	7.710	128.190	4191.58	224.89	-177.58	181.62	1737941.71	14584536.33	40°09'29.5544"N	80°39'3.4312"W	254.01	134.357	0.95	0.32
4296.00	6.400	126.520	4280.89	233.99	-184.30	190.39	1737950.49	14584529.62	40°09'29.4876"N	80°39'3.3185"W	264.98	134.069	1.47	-1.46
4386.00	6.410	135.720	4370.33	242.57	-190.88	197.93	1737958.02	14584523.04	40°09'29.4223"N	80°39'3.2217"W	274.98	133.962	1.14	0.01
4474.00	6.470	140.620	4457.78	251.59	-198.23	204.51	1737964.60	14584515.69	40°09'29.3494"N	80°39'3.1374"W	284.81	134.108	0.63	0.07
4564.00	6.360	139.290	4547.21	260.90	-205.93	210.98	1737971.06	14584507.99	40°09'29.2731"N	80°39'3.0545"W	294.82	134.307	0.21	-0.12
4654.00	6.650	135.030	4636.64	270.14	-213.40	217.91	1737977.99	14584500.53	40°09'29.1991"N	80°39'2.9656"W	305.00	134.401	0.63	0.32
4744.00	5.470	131.410	4726.13	278.47	-219.92	224.81	1737984.89	14584494.01	40°09'29.1343"N	80°39'2.8770"W	314.49	134.370	1.38	-1.31
4833.00	5.500	125.500	4814.72	285.55	-225.20	231.46	1737991.54	14584488.73	40°09'29.0819"N	80°39'2.7916"W	322.94	134.215	0.64	0.03
4923.00	5.020	134.240	4904.35	292.50	-230.46	237.80	1737997.87	14584483.48	40°09'29.0297"N	80°39'2.7103"W	331.14	134.102	1.04	-0.53
5013.00	6.360	142.840	4993.90	300.69	-237.18	243.63	1738003.70	14584476.76	40°09'28.9631"N	80°39'2.6355"W	340.01	134.231	1.76	1.49
5102.00	9.020	146.770	5082.10	312.07	-246.94	250.43	1738010.50	14584467.00	40°09'28.8663"N	80°39'2.5484"W	351.70	134.598	3.04	2.99
5192.00	18.140	155.000	5169.49	332.83	-265.58	260.24	1738020.31	14584448.37	40°09'28.6817"N	80°39'2.4230"W	371.83	135.582	10.33	9.14

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5281.00	26.140	156.290	5251.87	366.14	-296.14	274.00	1738034.06	14584417.82	40°09'28.3792"N	80°39'2.2473"W	403.45	137.224	9.00	8.99	1.45
5371.00	32.640	157.220	5330.24	410.10	-336.71	291.39	1738051.44	14584377.26	40°09'27.9776"N	80°39'2.0254"W	445.29	139.127	7.24	7.22	1.03
5461.00	36.360	162.710	5404.42	460.99	-384.59	308.73	1738068.77	14584329.40	40°09'27.5038"N	80°39'1.8046"W	493.18	141.245	5.38	4.13	6.10
5551.00	42.380	161.840	5473.96	518.05	-438.94	326.12	1738086.17	14584275.08	40°09'26.9661"N	80°39'1.5633"W	546.83	143.388	6.72	6.69	-0.97
5640.00	46.250	159.110	5537.64	580.18	-497.50	346.95	1738106.98	14584216.54	40°09'26.3866"N	80°39'1.3181"W	606.53	145.109	4.85	4.35	-3.07
5684.00	46.700	157.580	5567.94	612.01	-527.15	358.72	1738118.75	14584186.90	40°09'26.0931"N	80°39'1.1679"W	637.62	145.765	2.72	1.02	-3.48
5730.00	46.910	156.780	5599.42	645.42	-558.06	371.73	1738131.75	14584156.01	40°09'25.7872"N	80°39'1.0020"W	670.53	146.332	1.35	0.46	-1.74
5773.00	46.850	161.070	5628.82	676.75	-587.33	383.01	1738143.03	14584126.74	40°09'25.4974"N	80°39'0.8582"W	701.18	146.891	7.28	-0.14	9.98
5819.00	48.220	164.090	5659.88	710.67	-619.70	393.15	1738153.17	14584094.38	40°09'25.1771"N	80°39'0.7291"W	733.89	147.608	5.68	2.98	6.57
5865.00	53.080	164.290	5689.04	746.21	-653.92	402.84	1738162.85	14584060.18	40°09'24.8386"N	80°39'0.6061"W	768.04	148.365	10.57	10.57	0.43
5908.00	58.090	165.190	5713.34	781.63	-688.13	412.17	1738182.06	14584025.98	40°09'24.5002"N	80°39'0.4878"W	802.13	149.080	11.78	11.65	2.09
5954.00	60.010	165.760	5736.99	821.01	-726.32	422.06	1738192.01	14583948.72	40°09'24.1224"N	80°39'0.3623"W	840.04	149.840	4.31	4.17	1.24
6000.00	62.640	165.680	5759.06	861.28	-765.43	432.01	1738192.01	14583948.72	40°09'23.7356"N	80°39'0.2361"W	878.93	150.559	5.72	5.72	-0.17
6044.00	67.290	165.110	5777.68	901.07	-803.99	442.07	1738202.06	14583910.17	40°09'23.3541"N	80°39'0.1086"W	917.51	151.196	10.63	10.57	-1.30
6090.00	72.920	164.210	5793.33	944.26	-845.69	453.51	1738213.50	14583868.49	40°09'22.9416"N	80°38'59.9633"W	959.61	151.797	12.38	12.24	-1.96
6133.00	76.150	163.370	5804.79	985.68	-885.48	465.08	1738225.07	14583828.71	40°09'22.5480"N	80°38'59.8163"W	1000.18	152.290	7.74	7.51	-1.95
6180.00	81.910	162.590	5813.73	1031.80	-929.58	478.58	1738238.56	14583784.63	40°09'22.1116"N	80°38'59.6446"W	1045.54	152.759	12.36	12.26	-1.66
6269.00	90.610	163.940	5819.53	1120.50	-1014.55	504.12	1738264.10	14583699.70	40°09'21.2710"N	80°38'59.3200"W	1132.89	153.577	9.89	9.78	1.52
6292.00	91.440	164.190	5819.12	1143.48	-1036.66	510.44	1738270.41	14583677.59	40°09'21.0522"N	80°38'59.2398"W	1155.51	153.785	3.77	3.61	1.09
6337.00	92.740	164.210	5817.48	1188.42	-1079.93	522.68	1738282.65	14583634.34	40°09'20.6242"N	80°38'59.0843"W	1199.77	154.173	2.89	2.89	0.04
6430.00	91.320	162.180	5814.18	1281.33	-1168.89	549.55	1738309.51	14583545.41	40°09'19.7440"N	80°38'58.7428"W	1291.63	154.820	2.66	-1.53	-2.18
6520.00	89.880	161.690	5813.24	1371.32	-1254.45	577.46	1738337.40	14583459.89	40°09'19.8974"N	80°38'58.3877"W	1380.98	155.282	1.69	-1.60	-0.54
6609.00	89.010	161.930	5814.10	1460.32	-1339.00	605.24	1738365.17	14583375.37	40°09'18.0608"N	80°38'58.0342"W	1469.43	155.677	1.01	-0.98	0.27
6702.00	88.460	162.090	5816.16	1553.30	-1427.43	633.96	1738393.88	14583286.97	40°09'17.1858"N	80°38'57.6689"W	1561.87	156.053	0.62	-0.59	0.17
6794.00	88.800	162.080	5818.36	1645.27	-1514.94	662.25	1738422.16	14583199.49	40°09'16.3199"N	80°38'57.3090"W	1653.37	156.388	0.37	-0.37	-0.01
6883.00	88.610	161.440	5820.37	1734.25	-1599.45	690.10	1738450.00	14583115.02	40°09'15.4838"N	80°38'56.9546"W	1741.97	156.662	0.75	-0.21	-0.72
6976.00	88.550	161.720	5822.67	1827.21	-1687.66	719.47	1738479.36	14583026.85	40°09'14.6109"N	80°38'56.5808"W	1834.62	156.911	0.31	-0.06	0.30
7068.00	88.920	161.940	5824.70	1919.19	-1775.05	748.16	1738508.03	14582939.49	40°09'13.7462"N	80°38'56.2158"W	1926.27	157.145	0.47	0.40	0.24
7161.00	89.230	163.050	5826.20	2012.18	-1863.73	776.12	1738535.99	14582850.85	40°09'12.8688"N	80°38'55.8601"W	2018.87	157.391	1.24	0.33	1.19
7253.00	89.970	162.670	5826.85	2104.16	-1951.64	803.24	1738563.09	14582762.97	40°09'11.9990"N	80°38'55.5155"W	2110.47	157.629	0.90	0.80	-0.41

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Actual Wellpath Report
Edward Dremak OHI 8H AWP Proj: 19483





Southwestern Energy

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Operator	SOUTHWESTERN ENERGY
Field	Ohio
Facility	Edward Dremak OHI Pad
Slot	Slot #8H
	Wellbore
	Edward Dremak OHI 8H AWB

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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]	[°]	[ft/100ft]	[ft/100ft]	[ft/100ft]
7346.00	87.50	162.370	5828.70	2197.14	-2040.32	831.16	1738591.01	14582674.32	40°09'11.12"15"N	80°38'55.1603"W	2203.12	157.836	2.41	-2.39	-0.32
7439.00	90.310	165.510	5830.27	2290.05	-2129.66	856.88	1738616.72	14582585.02	40°09'10.2377"N	80°38'54.8337"W	2295.58	158.082	4.36	2.75	3.38
7531.00	89.380	162.960	5830.52	2381.98	-2218.19	881.88	1738641.70	14582496.52	40°09'9.3619"N	80°38'54.5163"W	2387.06	158.319	2.95	-1.01	-2.77
7624.00	87.110	162.330	5833.37	2474.92	-2306.91	909.60	1738669.41	14582407.84	40°09'8.4841"N	80°38'54.1638"W	2479.76	158.481	2.53	-2.44	-0.68
7717.00	88.520	162.800	5836.91	2567.65	-2395.57	937.45	1738697.25	145822319.21	40°09'7.6068"N	80°38'53.8097"W	2572.46	158.628	1.60	1.52	0.51
7810.00	88.460	163.020	5839.37	2660.81	-2484.43	964.77	1738724.56	14582230.38	40°09'6.7276"N	80°38'53.4624"W	2665.18	158.778	0.25	-0.06	0.24
7902.00	89.910	162.980	5840.67	2752.78	-2572.40	991.66	1738751.44	14582142.45	40°09'5.8573"N	80°38'53.1205"W	2756.93	158.918	1.58	1.58	-0.04
7995.00	89.660	162.400	5841.02	2845.78	-2661.19	1019.33	1738779.10	14582053.70	40°09'4.9788"N	80°38'52.7687"W	2849.73	159.041	0.68	-0.27	-0.62
8088.00	89.420	162.130	5841.77	2938.77	-2749.77	1047.66	1738807.42	14581965.16	40°09'4.1024"N	80°38'52.4084"W	2942.58	159.143	0.39	-0.26	-0.29
8181.00	89.660	161.950	5842.52	3031.77	-2838.23	1076.34	1738836.08	14581876.72	40°09'3.2270"N	80°38'52.0437"W	3035.47	159.232	0.32	0.26	-0.19
8274.00	90.180	162.360	5842.65	3124.77	-2926.76	1104.83	1738864.57	14581788.23	40°09'2.3511"N	80°38'51.6812"W	3128.35	159.319	0.71	0.56	0.44
8366.00	89.940	162.690	5842.55	3216.76	-3014.51	1132.46	1738892.19	14581700.51	40°09'1.4828"N	80°38'51.3299"W	3220.21	159.410	0.44	-0.26	0.36
8459.00	89.350	161.410	5843.13	3309.76	-3102.98	1161.12	1738920.84	14581612.08	40°09'0.6075"N	80°38'50.9653"W	3313.11	159.484	1.52	-0.63	-1.38
8552.00	89.320	161.780	5844.21	3402.75	-3191.22	1190.48	1738950.19	14581523.88	40°08'59.7344"N	80°38'50.5917"W	3406.04	159.542	0.40	-0.03	0.40
8645.00	89.450	162.220	5845.20	3495.75	-3279.66	1219.22	1738978.91	14581435.47	40°08'58.8592"N	80°38'50.2262"W	3498.95	159.607	0.49	0.14	0.47
8737.00	89.750	162.250	5845.85	3587.74	-3367.27	1247.29	1739006.97	14581347.89	40°08'57.9924"N	80°38'49.8692"W	3590.85	159.675	0.33	0.33	0.03
8830.00	89.140	163.290	5846.75	3680.73	-3456.09	1274.83	1739034.50	14581259.11	40°08'57.1136"N	80°38'49.1836"W	3683.72	159.753	1.30	-0.66	1.12
8923.00	89.940	163.730	5847.49	3773.70	-3545.26	1301.23	1739060.89	14581169.97	40°08'56.2313"N	80°38'49.1836"W	3776.52	159.845	0.98	0.86	0.47
9016.00	89.140	163.380	5848.24	3866.66	-3634.45	1327.56	1739087.21	14581080.81	40°08'55.3489"N	80°38'48.8492"W	3869.32	159.934	0.94	-0.86	-0.38
9108.00	89.630	163.380	5849.23	3958.63	-3722.60	1353.87	1739113.51	14580992.70	40°08'54.4768"N	80°38'48.5148"W	3961.15	160.014	0.53	0.53	0.00
9198.00	89.140	163.660	5850.19	4048.60	-3808.90	1379.40	1739139.03	14580906.43	40°08'53.6230"N	80°38'48.1905"W	4050.98	160.092	0.63	-0.54	0.31
9288.00	88.830	162.890	5851.79	4138.56	-3895.08	1405.30	1739164.91	14580820.29	40°08'52.7704"N	80°38'47.8614"W	4140.83	160.161	0.92	-0.34	-0.86
9377.00	89.350	163.740	5853.20	4227.53	-3980.32	1430.85	1739190.45	14580735.08	40°08'51.9270"N	80°38'47.5366"W	4229.69	160.228	1.12	0.58	0.96
9467.00	89.630	162.980	5854.00	4317.50	-4066.55	1456.62	1739216.21	14580648.89	40°08'51.0739"N	80°38'47.2094"W	4319.55	160.293	0.90	0.31	-0.84
9557.00	89.850	163.950	5854.41	4407.47	-4152.82	1482.23	1739241.82	14580562.65	40°08'50.2203"N	80°38'46.8840"W	4409.42	160.357	1.11	0.24	1.08
9646.00	89.350	163.400	5855.03	4496.43	-4238.23	1507.25	1739266.82	14580477.27	40°08'49.3753"N	80°38'46.5662"W	4498.27	160.423	0.84	-0.56	-0.62
9736.00	89.820	163.200	5855.68	4586.41	-4324.43	1533.11	1739292.68	14580391.10	40°08'48.5224"N	80°38'46.2376"W	4588.15	160.479	0.57	0.52	-0.22
9822.00	89.780	163.330	5855.98	4672.39	-4406.79	1557.87	1739317.43	14580308.78	40°08'47.7076"N	80°38'45.9229"W	4674.05	160.531	0.16	-0.05	0.15
9912.00	89.970	163.650	5856.18	4762.36	-4493.08	1583.45	1739343.00	14580222.52	40°08'46.8539"N	80°38'45.5980"W	4763.94	160.587	0.41	0.21	0.36
10002.00	90.370	163.600	5855.91	4852.33	-4579.43	1608.82	1739368.36	14580136.21	40°08'45.9996"N	80°38'45.2757"W	4853.81	160.643	0.45	0.44	-0.06

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Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 8H AWB
Slot	Slot #8H		

WELLPATH DATA (226 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]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
12794.00	89.260	161.730	5870.02	7643.57	-7249.98	2422.19	1740181.41	14577466.70	40°08'19.571"N	80°38'34.940"W	7643.90	161.526	0.55	-0.40	-0.38
12887.00	89.600	161.270	5870.94	7736.56	-7338.17	2451.70	1740210.90	14577378.55	40°08'18.704"N	80°38'34.564"W	7736.89	161.525	0.62	0.37	-0.49
12980.00	89.630	162.590	5871.57	7829.55	-7426.58	2480.54	1740239.74	14577290.17	40°08'17.829"N	80°38'34.197"W	7829.89	161.530	1.42	0.03	1.42
13073.00	89.600	162.520	5872.19	7922.55	-7515.30	2508.42	1740267.61	14577201.49	40°08'16.951"N	80°38'33.843"W	7922.87	161.542	0.08	-0.03	-0.08
13165.00	89.320	162.350	5873.06	8014.54	-7603.00	2536.18	1740295.36	14577113.81	40°08'16.084"N	80°38'33.490"W	8014.85	161.553	0.36	-0.30	-0.18
13258.00	89.420	160.980	5874.08	8107.53	-7691.28	2565.44	1740324.60	14577025.58	40°08'15.210"N	80°38'33.118"W	8107.85	161.554	1.48	0.11	-1.47
13351.00	90.150	162.380	5874.43	8200.52	-7779.56	2594.67	1740353.82	14576937.33	40°08'14.336"N	80°38'32.746"W	8200.84	161.555	1.70	0.78	1.51
13444.00	89.720	162.680	5874.54	8293.52	-7868.27	2622.59	1740381.73	14576848.65	40°08'13.452"N	80°38'32.391"W	8293.83	161.566	0.56	-0.46	0.32
13537.00	90.120	163.080	5874.67	8386.51	-7957.15	2649.96	1740409.10	14576759.81	40°08'12.579"N	80°38'32.044"W	8386.80	161.581	0.61	0.43	0.43
13629.00	89.880	163.300	5874.67	8478.49	-8045.22	2676.57	1740435.69	14576671.78	40°08'11.708"N	80°38'31.706"W	8478.77	161.598	0.35	-0.26	0.24
13721.00	89.630	162.270	5875.06	8570.48	-8133.09	2703.80	1740462.91	14576583.93	40°08'10.839"N	80°38'31.360"W	8570.75	161.611	1.15	-0.27	-1.12
13814.00	89.480	162.330	5875.78	8663.48	-8221.69	2732.07	1740491.17	14576495.37	40°08'9.962"N	80°38'31.005"W	8663.74	161.618	0.17	-0.16	0.06
13907.00	89.350	161.530	5876.73	8756.47	-8310.09	2760.92	1740520.00	14576407.00	40°08'9.087"N	80°38'30.633"W	8756.73	161.622	0.87	-0.14	-0.86
14000.00	90.250	162.950	5877.06	8849.47	-8398.66	2789.28	1740548.36	14576318.47	40°08'8.211"N	80°38'30.273"W	8849.72	161.628	1.81	0.97	1.53
14091.00	89.510	162.110	5877.25	8940.47	-8485.46	2816.60	1740575.67	14576231.70	40°08'7.352"N	80°38'29.925"W	8940.71	161.637	1.23	-0.81	-0.92
14181.00	89.450	161.580	5878.07	9030.46	-8570.98	2844.64	1740603.70	14576146.22	40°08'6.506"N	80°38'29.569"W	9030.70	161.639	0.59	-0.07	-0.59
14271.00	89.570	161.620	5878.84	9120.45	-8656.37	2873.05	1740632.09	14576060.86	40°08'5.661"N	80°38'29.208"W	9120.70	161.639	0.14	0.13	0.04
14360.00	89.420	161.990	5879.62	9209.45	-8740.92	2900.84	1740659.87	14575976.35	40°08'4.824"N	80°38'28.854"W	9209.70	161.641	0.45	-0.17	0.42
14453.00	89.570	162.280	5880.44	9302.45	-8829.43	2929.37	1740688.39	14575888.87	40°08'3.948"N	80°38'28.491"W	9302.69	161.646	0.35	0.16	0.31
14541.00	89.510	162.320	5881.15	9390.44	-8913.26	2958.12	1740715.13	14575804.07	40°08'3.119"N	80°38'28.151"W	9390.68	161.652	0.08	-0.07	0.05
14634.00	89.720	162.590	5881.77	9483.44	-9001.93	2984.16	1740743.16	14575715.43	40°08'2.241"N	80°38'27.795"W	9483.67	161.660	0.37	0.23	0.29
14725.00	89.290	161.700	5882.56	9574.43	-9088.55	3012.06	1740771.05	14575628.85	40°08'1.384"N	80°38'27.440"W	9574.66	161.664	1.09	-0.47	-0.98
14814.00	89.420	162.270	5883.56	9663.43	-9173.18	3039.58	1740798.56	14575544.26	40°08'0.547"N	80°38'27.090"W	9663.65	161.667	0.66	0.15	0.64
14903.00	89.350	162.930	5884.51	9752.42	-9258.10	3066.19	1740825.16	14575459.37	40°07'59.707"N	80°38'26.752"W	9752.64	161.676	0.75	-0.08	0.74
14996.00	89.140	161.650	5885.74	9845.41	-9346.68	3094.48	1740853.44	14575370.82	40°07'58.830"N	80°38'26.393"W	9845.62	161.681	1.39	-0.23	-1.38
15088.00	89.050	161.320	5887.19	9937.39	-9433.91	3123.69	1740882.64	14575283.63	40°07'57.967"N	80°38'26.021"W	9937.61	161.680	0.37	-0.10	-0.36
15178.00	89.230	162.420	5888.54	10027.38	-9519.43	3151.69	1740910.63	14575198.14	40°07'57.121"N	80°38'25.665"W	10027.60	161.681	1.24	0.20	1.22
15267.00	89.290	162.200	5889.69	10116.37	-9604.21	3178.74	1740937.66	14575113.39	40°07'56.282"N	80°38'25.321"W	10116.58	161.687	0.26	0.07	-0.25
15356.00	89.110	162.010	5890.94	10205.36	-9688.90	3206.08	1740964.99	14575028.73	40°07'55.444"N	80°38'24.974"W	10205.57	161.690	0.29	-0.20	-0.21
15445.00	89.110	162.850	5892.32	10294.35	-9773.74	3232.94	1740991.85	14574943.95	40°07'54.605"N	80°38'24.632"W	10294.55	161.697	0.94	0.00	0.94

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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)
15535.00	89.750	163.870	5893.21	10384.32	-9859.96	3258.71	1741017.61	14574857.74	40°07'53.7519"N	80°38'24.3054"W	10384.51	161.711	1.34	0.71	1.13
15625.00	89.600	163.090	5893.72	10474.29	-9946.24	3284.30	1741043.19	14574771.49	40°07'52.8982"N	80°38'23.9804"W	10474.47	161.726	0.88	-0.17	-0.87
15714.00	89.540	162.270	5894.39	10563.28	-10031.21	3310.80	1741069.67	14574686.56	40°07'52.0576"N	80°38'23.6437"W	10563.45	161.735	0.92	-0.07	-0.92
15804.00	90.090	162.540	5894.68	10653.28	-10116.99	3338.00	1741096.87	14574600.81	40°07'51.2087"N	80°38'23.2980"W	10653.44	161.740	0.68	0.61	0.30
15893.00	89.050	160.970	5895.35	10742.27	-10201.51	3365.87	1741124.72	14574516.32	40°07'50.3724"N	80°38'22.9437"W	10742.44	161.740	2.12	-1.17	-1.76
15983.00	89.080	162.160	5896.82	10832.25	-10286.88	3394.32	1741153.16	14574430.99	40°07'49.5276"N	80°38'22.5818"W	10832.42	161.739	1.32	0.03	1.32
16073.00	89.450	161.650	5897.97	10922.24	-10372.42	3422.27	1741181.10	14574345.48	40°07'48.6812"N	80°38'22.2264"W	10922.41	161.740	0.70	0.41	-0.57
16162.00	89.690	163.920	5898.64	11011.23	-10457.43	3448.61	1741207.43	14574260.51	40°07'47.8401"N	80°38'21.5673"W	11011.39	161.749	2.56	0.27	2.55
16251.00	88.890	162.710	5899.75	11100.20	-10542.67	3474.16	1741232.97	14574175.30	40°07'46.9967"N	80°38'21.1818"W	11100.35	161.761	1.63	-0.90	-1.36
16339.00	89.480	162.950	5901.00	11188.18	-10626.74	3500.14	1741258.94	14574091.26	40°07'46.1649"N	80°38'21.2373"W	11188.33	161.770	0.72	0.67	0.27
16429.00	89.020	162.920	5902.17	11278.16	-10712.77	3526.55	1741285.34	14574005.26	40°07'45.3137"N	80°38'20.9018"W	11278.30	161.779	0.51	-0.51	-0.03
16519.00	89.510	163.130	5903.33	11368.14	-10798.84	3552.82	1741311.60	14573919.22	40°07'44.4621"N	80°38'20.5080"W	11368.27	161.789	0.59	0.54	0.23
16609.00	89.230	162.220	5904.32	11458.13	-10884.75	3579.62	1741338.99	14573833.35	40°07'43.6120"N	80°38'20.2275"W	11458.25	161.796	1.06	-0.31	-1.01
16698.00	90.310	164.040	5904.68	11547.11	-10969.92	3605.45	1741364.20	14573748.22	40°07'42.7694"N	80°38'19.8995"W	11547.22	161.806	2.38	1.21	2.04
16788.00	88.710	160.630	5905.45	11637.09	-11055.66	3632.75	1741391.50	14573662.51	40°07'41.9210"N	80°38'19.5525"W	11637.20	161.810	4.18	-1.78	-3.79
16878.00	87.440	162.840	5908.47	11727.03	-11141.07	3660.94	1741419.68	14573577.14	40°07'41.0759"N	80°38'19.1940"W	11727.14	161.810	2.83	-1.41	2.46
16967.00	89.200	163.750	5911.08	11815.97	-11226.27	3686.51	1741445.24	14573491.97	40°07'40.2329"N	80°38'18.8693"W	11816.07	161.821	2.23	1.98	1.02
17057.00	88.580	163.660	5912.82	11905.91	-11312.64	3711.76	1741470.47	14573405.63	40°07'39.3784"N	80°38'18.5488"W	11906.00	161.835	0.70	-0.69	-0.10
17147.00	89.780	163.390	5914.11	11995.87	-11398.93	3737.28	1741495.98	14573319.37	40°07'38.5248"N	80°38'18.2248"W	11995.95	161.848	1.37	1.33	-0.30
17238.00	89.510	163.660	5914.67	12086.84	-11486.19	3763.08	1741521.78	14573232.14	40°07'37.6612"N	80°38'17.8972"W	12086.91	161.860	0.42	-0.30	0.30
17330.00	89.350	162.820	5915.59	12178.81	-11574.28	3789.61	1741548.30	14573144.09	40°07'36.7897"N	80°38'17.5603"W	12178.88	161.871	0.93	-0.17	-0.91
17418.00	89.480	163.130	5916.49	12266.80	-11658.42	3815.38	1741574.05	14573059.98	40°07'35.9572"N	80°38'17.2330"W	12266.86	161.879	0.38	0.15	0.35
17510.00	89.660	163.420	5917.18	12358.78	-11746.53	3841.85	1741600.52	14572971.91	40°07'35.0855"N	80°38'16.8968"W	12358.83	161.889	0.37	0.20	0.32
17599.00	89.660	163.970	5917.71	12447.74	-11831.94	3866.84	1741625.49	14572886.53	40°07'34.2403"N	80°38'16.5796"W	12447.78	161.902	0.62	0.00	0.62
17689.00	89.820	163.330	5918.11	12537.70	-11918.30	3892.17	1741650.82	14572800.20	40°07'33.3859"N	80°38'16.2580"W	12537.74	161.914	0.73	0.18	-0.71
17779.00	89.720	163.310	5918.48	12627.68	-12004.52	3918.00	1741676.64	14572714.02	40°07'32.5329"N	80°38'15.9300"W	12627.71	161.924	0.11	-0.11	-0.02
17867.00	89.880	163.830	5918.78	12715.65	-12088.92	3942.89	1741701.52	14572629.65	40°07'31.6978"N	80°38'15.6140"W	12715.68	161.936	0.62	0.18	0.59
17957.00	89.780	163.900	5919.05	12805.60	-12175.38	3967.91	1741726.52	14572543.23	40°07'30.8425"N	80°38'15.2966"W	12805.63	161.949	0.14	-0.11	0.08
18047.00	89.780	163.490	5919.40	12895.56	-12261.76	3993.17	1741751.78	14572456.89	40°07'29.9879"N	80°38'14.9758"W	12895.58	161.962	0.46	0.00	-0.46
18140.00	89.910	164.400	5919.65	12988.51	-12351.13	4018.89	1741777.49	14572367.55	40°07'29.1037"N	80°38'14.6494"W	12988.53	161.976	0.99	0.14	0.98

WELLPATH DATA (226 stations)

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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	100.00	74.00	26.00	100.00	0.00	0.00	-0.11	0.01
17.5in Open Hole	100.00	377.00	277.00	100.00	377.00	-0.11	0.01	-1.02	0.05
13.375in Casing Surface	26.00	377.00	351.00	26.00	377.00	0.00	0.00	-1.02	0.05
12.25in Open Hole	377.00	1652.00	1275.00	377.00	1651.77	-1.02	0.05	5.02	5.51
9.625in Casing Intermediate	26.00	1652.00	1626.00	26.00	1651.77	0.00	0.00	5.02	5.51
8.75in Open Hole	1652.00	6352.00	4700.00	1651.77	5816.79	5.02	5.51	-1094.33	526.80
8.5in Open Hole	6352.00	19483.00	13131.00	5816.79	5926.79	-1094.33	526.80	-13637.42	4404.90
5.5in Casing Production	26.00	19483.00	19457.00	26.00	5926.79	0.00	0.00	-13637.42	4404.90

HOLE & CASING SECTIONS - Ref Wellbore: Edward Dremak OHI 8H AWB Ref Wellpath: Edward Dremak OHI 8H AWP Proj: 19483

Operator	Field	Facility	Slot
SOUTHWESTERN ENERGY	Ohio	Edward Dremak OHI Pad	Slot #8H
Well	API/Legal	Wellbore	
Edward Dremak OHI 8H		Edward Dremak OHI 8H AWB	

REFERENCE WELLPATH IDENTIFICATION



Actual Wellpath Report
Edward Dremak OHI 8H AWP Proj: 19483
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REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Well	Edward Dremak OHI 8H
Field	Ohio	AP/Legal	
Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 8H AWB
Slot	Slot #8H		

TARGETS							
Name	TVD (ft)	North (ft)	East (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Edward Dremak North Hardlines 1	5802.50	-152.69	801.05	1738560.91	14584561.21	40°09'29.7762"N	80°38'55.4520"W
2D Polygon: dimensions not calculated							
Edward Dremak North Hardlines 2	5802.50	-2345.89	629.73	1738389.65	14582368.87	40°09'8.1098"N	80°38'57.7700"W
2D Polygon: dimensions not calculated							
Edward Dremak South Hardlines 1	5802.50	-11206.61	4777.91	1742536.21	14573511.62	40°07'40.3831"N	80°38'4.8181"W
2D Polygon: dimensions not calculated							
Edward Dremak South Hardlines 2	5802.50	-12949.17	4914.25	1742672.50	14571769.74	40°07'23.1575"N	80°38'3.1551"W
2D Polygon: dimensions not calculated							
Edward Dremak South Unit 1	5802.50	-10769.62	6250.77	1744008.49	14573948.44	40°07'44.6412"N	80°37'45.8337"W
2D Polygon: dimensions not calculated							
Edward Dremak South Unit 2	5802.50	-13667.77	4916.96	1742675.20	14571051.42	40°07'16.0562"N	80°38'3.1584"W
2D Polygon: dimensions not calculated							
Edward Dremak OHI 8H LP Rev-2	5815.00	-911.44	470.76	1738230.75	14583802.76	40°09'22.2912"N	80°38'59.7444"W
point							
Edward Dremak OHI 8H BHL Rev-2	5978.00	-13635.17	4413.94	1742172.39	14571084.01	40°07'16.3988"N	80°38'9.6316"W
point							

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REFERENCE WELLPATH IDENTIFICATION			
Operator	SOUTHWESTERN ENERGY	Well	Edward Dremak OHI 8H
Field	Ohio	API/Legal	
Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 8H AWB
Slot	Slot #8H		

WELLPATH COMPOSITION - Ref Wellbore: Edward Dremak OHI 8H AWB				Ref Wellpath: Edward Dremak OHI 8H AWP Proj: 19483			
Start MD	End MD	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date	Start MD	End MD
(ft)	(ft)						
26.00	301.00	OWSG MWD rev2 + HRGM	01 Premier MWD <17 1/2"> (152'-301')	Edward Dremak OHI 8H AWB	12/17/2019	26.00	301.00
301.00	1598.00	OWSG MWD rev2 + HRGM	02 Premier MWD <12 1/4"> (396'-1598')	Edward Dremak OHI 8H AWB	12/17/2019	301.00	1598.00
1598.00	6292.00	OWSG MWD rev2 + HRGM	03 Premier MWD <8 3/4"> (1696'-6292')	Edward Dremak OHI 8H AWB	12/17/2019	1598.00	6292.00
6292.00	19483.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve <8 1/2"> (6337'-19483')	Edward Dremak OHI 8H AWB	12/17/2019	6292.00	19483.00

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