



Actual Wellpath Report

Edward Dremak OHI 410H AWP Proj: 15278
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REFERENCE WELLPATH IDENTIFICATION		
Operator	SOUTHWESTERN ENERGY	Well
Field	Ohio	Edward Dremak OHI 410H
Facility	Edward Dremak OHI Pad	Wellbore
Slot	Slot #410H	Edward Dremak OHI 410H AWB

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	1/13/2020 at 11:23:47 AM
Convergence at slot	0.22° East	Database	WA_MPL_EASTERNS_Defn

WELLPATH LOCATION					
	Local coordinates	Grid coordinates	Geographic coordinates		
	North[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-31.88	12.40	1737753.22	40°09'30.9074"N	80°39'5.8529"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 #410H)	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	146.27°

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Field	Ohio	API/Legal	Edward Dremak OHI 410H AWB
Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 410H AWB
Slot	Slot #410H		

WELLPATH DATA (224 stations) † = interpolated, ‡ = extrapolated station

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)			(ft)	(ft)	(°/100ft)	(°/100ft)
0.00	0.00	69.960	0.00	0.00	0.00	0.00	1737753.22	14584672.46	40°09'30.9074"N	80°39'5.8529"W	0.00	0.00	0.00	0.00
26.00	0.000	69.960	26.00	0.00	0.00	0.00	1737753.22	14584672.46	40°09'30.9074"N	80°39'5.8529"W	0.00	0.00	0.00	0.00
50.00	0.220	69.960	50.00	0.01	0.02	0.04	1737753.26	14584672.48	40°09'30.9076"N	80°39'5.8524"W	0.05	0.92	0.92	0.00
75.00	0.340	105.050	75.00	0.08	0.01	0.16	1737753.38	14584672.47	40°09'30.9076"N	80°39'5.8509"W	0.16	0.82	0.48	140.36
100.00	0.450	140.140	100.00	0.23	-0.08	0.29	1737753.51	14584672.38	40°09'30.9066"N	80°39'5.8491"W	0.31	1.04	0.44	140.36
125.00	0.460	151.740	125.00	0.43	-0.25	0.40	1737753.62	14584672.21	40°09'30.9050"N	80°39'5.8477"W	0.47	0.37	0.04	46.40
150.00	0.470	163.340	150.00	0.63	-0.43	0.48	1737753.70	14584672.03	40°09'30.9032"N	80°39'5.8467"W	0.65	0.38	0.04	46.40
175.00	0.480	174.930	175.00	0.82	-0.63	0.52	1737753.74	14584671.83	40°09'30.9012"N	80°39'5.8462"W	0.82	0.39	0.04	46.36
200.00	0.490	186.530	200.00	0.99	-0.85	0.52	1737753.74	14584671.62	40°09'30.8991"N	80°39'5.8463"W	0.99	0.39	0.04	46.40
225.00	0.520	189.740	224.99	1.15	-1.06	0.49	1737753.71	14584671.40	40°09'30.8969"N	80°39'5.8467"W	1.17	0.16	0.12	12.84
250.00	0.560	192.940	249.99	1.32	-1.29	0.44	1737753.66	14584671.17	40°09'30.8946"N	80°39'5.8473"W	1.37	0.20	0.16	12.80
275.00	0.590	196.150	274.99	1.49	-1.54	0.38	1737753.60	14584670.92	40°09'30.8922"N	80°39'5.8481"W	1.58	0.18	0.12	12.84
300.00	0.620	199.350	299.99	1.65	-1.79	0.30	1737753.52	14584670.67	40°09'30.8898"N	80°39'5.8492"W	1.81	0.18	0.12	12.80
325.00	0.700	205.090	324.99	1.81	-2.05	0.19	1737753.41	14584670.41	40°09'30.8871"N	80°39'5.8506"W	2.06	0.41	0.32	22.96
350.00	0.780	210.830	349.99	1.96	-2.34	0.03	1737753.25	14584670.12	40°09'30.8843"N	80°39'5.8526"W	2.34	0.44	0.32	22.96
375.00	0.860	216.570	374.98	2.10	-2.64	-0.16	1737753.06	14584669.83	40°09'30.8814"N	80°39'5.8552"W	2.64	0.46	0.32	22.96
400.00	0.940	222.310	399.98	2.21	-2.94	-0.41	1737752.81	14584669.52	40°09'30.8784"N	80°39'5.8584"W	2.97	0.48	0.32	22.96
425.00	0.940	219.550	424.98	2.32	-3.25	-0.68	1737752.54	14584669.21	40°09'30.8754"N	80°39'5.8619"W	3.32	0.18	0.00	-11.04
450.00	0.940	216.780	449.97	2.45	-3.57	-0.94	1737752.28	14584668.89	40°09'30.8722"N	80°39'5.8652"W	3.69	0.18	0.00	-11.08
475.00	0.930	214.020	474.97	2.59	-3.90	-1.17	1737752.05	14584668.56	40°09'30.8689"N	80°39'5.8682"W	4.07	0.18	-0.04	-11.04
500.00	0.930	211.260	499.97	2.76	-4.24	-1.39	1737751.83	14584668.22	40°09'30.8656"N	80°39'5.8711"W	4.47	0.18	0.00	-11.04
525.00	0.880	189.630	524.97	2.98	-4.61	-1.53	1737751.69	14584667.86	40°09'30.8620"N	80°39'5.8728"W	4.85	1.37	-0.20	-86.52
550.00	0.840	168.000	549.96	3.29	-4.97	-1.52	1737751.70	14584667.49	40°09'30.8583"N	80°39'5.8728"W	5.20	1.30	-0.16	-86.52
575.00	0.790	146.360	574.96	3.63	-5.30	-1.39	1737751.83	14584667.16	40°09'30.8551"N	80°39'5.8711"W	5.48	1.24	-0.20	-86.56
600.00	0.740	124.730	599.96	3.96	-5.53	-1.16	1737752.06	14584666.93	40°09'30.8528"N	80°39'5.8682"W	5.65	1.16	-0.20	-86.52
625.00	1.220	114.520	624.95	4.33	-5.74	-0.79	1737752.43	14584666.73	40°09'30.8508"N	80°39'5.8633"W	5.79	2.04	1.92	-40.84
650.00	1.700	104.310	649.95	4.84	-5.94	-0.18	1737753.04	14584666.52	40°09'30.8488"N	80°39'5.8556"W	5.94	2.18	1.92	-40.84
675.00	2.180	94.100	674.93	5.40	-6.06	0.65	1737753.87	14584666.40	40°09'30.8475"N	80°39'5.8449"W	6.10	2.36	1.92	-40.84
700.00	2.660	83.890	699.91	6.96	-6.04	1.70	1737754.92	14584666.43	40°09'30.8477"N	80°39'5.8313"W	6.27	2.57	1.92	-40.84
725.00	3.090	82.400	724.88	8.53	-5.88	2.94	1737755.16	14584666.58	40°09'30.8492"N	80°39'5.8153"W	6.58	1.75	1.72	-5.96

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[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[us ft]	[us ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]
750.00	3.520	80.900	749.84	7.15	-5.67	4.37	1737757.59	14584666.79	40°09'30.8512"N	80°39'5.7969"W	7.16	142.396	1.75	1.72	-6.00
775.00	3.950	79.410	774.78	7.80	-5.39	5.97	1737759.19	14584667.07	40°09'30.8539"N	80°39'5.7762"W	8.05	132.079	1.76	1.72	-5.96
800.00	4.380	77.910	799.72	8.49	-5.04	7.75	1737760.97	14584667.43	40°09'30.8574"N	80°39'5.7533"W	9.25	123.002	1.77	1.72	-6.00
825.00	5.050	76.970	824.63	9.24	-4.59	9.76	1737762.98	14584667.87	40°09'30.8617"N	80°39'5.7274"W	10.78	115.179	2.70	2.68	-3.76
850.00	5.720	76.030	849.52	10.05	-4.04	12.04	1737765.26	14584668.42	40°09'30.8671"N	80°39'5.6980"W	12.70	108.545	2.70	2.68	-3.76
875.00	6.390	75.080	874.38	10.92	-3.38	14.59	1737767.81	14584669.08	40°09'30.8735"N	80°39'5.6651"W	14.98	103.041	2.71	2.68	-3.80
900.00	7.060	74.140	899.21	11.84	-2.60	17.42	1737770.63	14584669.86	40°09'30.8811"N	80°39'5.6287"W	17.61	98.498	2.72	2.68	-3.76
925.00	7.550	73.230	924.01	12.79	-1.71	20.47	1737773.68	14584670.75	40°09'30.8898"N	80°39'5.5894"W	20.54	94.772	2.01	1.96	-3.64
950.00	8.030	72.330	948.78	13.75	-0.70	23.70	1737776.91	14584671.76	40°09'30.8996"N	80°39'5.5477"W	23.71	91.703	1.98	1.92	-3.60
975.00	8.520	71.420	973.52	14.71	0.42	27.12	1737780.33	14584672.88	40°09'30.9105"N	80°39'5.5036"W	27.13	89.122	2.03	1.96	-3.64
1000.00	9.010	70.510	998.22	15.68	1.66	30.72	1737783.93	14584674.12	40°09'30.9226"N	80°39'5.4571"W	30.77	86.910	2.04	1.96	-3.64
1025.00	9.560	70.640	1022.90	16.68	3.00	34.53	1737787.73	14584675.46	40°09'30.9358"N	80°39'5.4081"W	34.66	85.034	2.20	2.20	0.52
1050.00	10.100	70.760	1047.53	17.74	4.41	38.56	1737791.76	14584676.87	40°09'30.9495"N	80°39'5.3561"W	38.81	83.474	2.16	2.16	0.48
1075.00	10.650	70.890	1072.12	18.87	5.89	42.81	1737796.01	14584678.35	40°09'30.9640"N	80°39'5.3013"W	43.21	82.167	2.20	2.20	0.52
1100.00	11.200	71.010	1096.67	20.07	7.44	47.29	1737800.49	14584679.89	40°09'30.9791"N	80°39'5.2435"W	47.87	81.064	2.20	2.20	0.48
1125.00	11.670	71.820	1121.17	21.37	9.01	51.98	1737805.18	14584681.47	40°09'30.9945"N	80°39'5.1829"W	52.76	80.162	1.99	1.88	3.24
1150.00	12.140	72.640	1145.63	22.79	10.59	56.90	1737810.09	14584683.04	40°09'31.0099"N	80°39'5.1196"W	57.87	79.458	2.00	1.88	3.28
1175.00	12.600	73.450	1170.05	24.33	12.15	62.02	1737815.21	14584684.60	40°09'31.0251"N	80°39'5.0535"W	63.20	78.917	1.97	1.84	3.24
1200.00	13.070	74.220	1194.43	26.01	13.69	67.35	1737820.55	14584686.15	40°09'31.0401"N	80°39'4.9848"W	68.73	78.509	2.01	1.88	3.24
1225.00	13.710	74.280	1218.75	27.80	15.26	72.93	1737826.12	14584687.72	40°09'31.0554"N	80°39'4.9129"W	74.51	78.180	2.56	2.56	0.08
1250.00	14.360	74.290	1243.03	29.68	16.90	78.76	1737831.95	14584689.36	40°09'31.0714"N	80°39'4.8377"W	80.56	77.887	2.60	2.60	0.04
1275.00	15.000	74.310	1267.19	31.64	18.62	84.86	1737838.05	14584691.07	40°09'31.0881"N	80°39'4.7590"W	86.88	77.625	2.56	2.56	0.08
1300.00	15.640	74.320	1291.30	33.68	20.40	91.22	1737844.40	14584692.86	40°09'31.1055"N	80°39'4.6770"W	93.47	77.392	2.56	2.56	0.04
1325.00	15.710	75.720	1315.37	35.85	22.15	97.75	1737850.93	14584694.60	40°09'31.1225"N	80°39'4.5929"W	100.22	77.232	1.54	0.28	5.60
1350.00	15.790	77.120	1339.43	38.19	23.74	104.34	1737857.52	14584696.19	40°09'31.1380"N	80°39'4.5079"W	107.01	77.181	1.55	0.32	5.60
1375.00	15.860	78.520	1363.48	40.70	25.18	111.00	1737864.18	14584697.63	40°09'31.1520"N	80°39'4.4220"W	113.82	77.219	1.55	0.28	5.60
1400.00	15.930	79.920	1387.53	43.37	26.46	117.73	1737870.90	14584698.91	40°09'31.1644"N	80°39'4.3353"W	120.67	77.333	1.56	0.28	5.60
1425.00	14.990	79.660	1411.62	46.03	27.64	124.29	1737877.46	14584700.09	40°09'31.1758"N	80°39'4.2508"W	127.33	77.461	3.77	-3.76	-1.04
1450.00	14.040	79.390	1435.82	48.50	28.78	130.45	1737883.62	14584701.23	40°09'31.1868"N	80°39'4.1713"W	133.59	77.558	3.81	-3.80	-1.08
1475.00	13.100	79.130	1460.12	50.79	29.87	136.21	1737889.38	14584702.32	40°09'31.1974"N	80°39'4.0971"W	139.45	77.630	3.77	-3.76	-1.04

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(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(us ft)	(us ft)			(ft)	(°)	(%/100ft)	(%/100ft)	(%/100ft)
1500.00	12.160	78.860	1484.52	52.90	30.92	141.58	1737894.74	14584703.36	40°09'31.2075"N	80°39'4.0279"W	144.92	77.682	3.77	-3.76	-1.08
1525.00	12.330	77.470	1508.95	54.88	32.00	146.77	1737899.93	14584704.45	40°09'31.2180"N	80°39'3.9610"W	150.22	77.699	1.36	0.68	-5.56
1550.00	12.500	76.080	1533.37	56.76	33.23	152.00	1737905.16	14584705.68	40°09'31.2300"N	80°39'3.8936"W	155.59	77.667	1.38	0.68	-5.56
1575.00	12.660	74.690	1557.77	58.54	34.61	157.27	1737910.43	14584707.05	40°09'31.2433"N	80°39'3.8256"W	161.03	77.589	1.37	0.64	-5.56
1600.00	12.830	73.300	1582.15	60.22	36.13	162.57	1737915.73	14584708.58	40°09'31.2582"N	80°39'3.7573"W	166.54	77.470	1.40	0.68	-5.56
1625.00	13.270	72.510	1606.50	61.84	37.79	167.96	1737921.12	14584710.23	40°09'31.2744"N	80°39'3.6877"W	172.16	77.320	1.90	1.76	-3.16
1650.00	13.710	71.710	1630.81	63.43	39.58	173.51	1737926.67	14584712.03	40°09'31.2919"N	80°39'3.6162"W	177.97	77.150	1.91	1.76	-3.20
1675.00	14.150	70.920	1655.08	64.99	41.51	179.22	1737932.37	14584713.95	40°09'31.3107"N	80°39'3.5426"W	183.96	76.959	1.92	1.76	-3.16
1700.00	14.590	70.120	1679.30	66.52	43.58	185.06	1737938.21	14584716.02	40°09'31.3309"N	80°39'3.4672"W	190.13	76.749	1.93	1.76	-3.20
1725.00	15.020	69.240	1703.47	68.00	45.80	191.05	1737944.20	14584718.24	40°09'31.3526"N	80°39'3.3899"W	196.47	76.520	1.94	1.72	-3.52
1730.10	15.110	69.060	1708.39	68.29	46.27	192.29	1737945.44	14584718.71	40°09'31.3572"N	80°39'3.3740"W	197.78	76.470	1.99	1.76	-3.53
1776.00	12.550	81.310	1752.97	71.73	49.16	202.81	1737955.95	14584721.60	40°09'31.3854"N	80°39'3.2383"W	208.69	76.374	8.45	-5.58	26.69
1864.00	10.920	90.600	1839.13	80.48	50.52	220.60	1737973.74	14584722.96	40°09'31.3981"N	80°39'3.0091"W	226.31	77.101	2.83	-1.85	10.56
1954.00	12.990	95.620	1927.18	91.70	49.44	239.20	1737992.32	14584722.88	40°09'31.3867"N	80°39'2.7697"W	244.25	78.322	2.57	2.30	5.58
2043.00	13.760	83.350	2013.78	102.66	49.69	259.67	1738012.79	14584722.13	40°09'31.3884"N	80°39'2.6060"W	264.38	79.168	3.30	0.87	-13.79
2133.00	15.660	79.860	2100.83	112.60	53.07	282.26	1738035.37	14584725.50	40°09'31.4209"N	80°39'2.2149"W	287.20	79.353	2.33	2.11	-3.88
2222.00	15.990	91.740	2186.48	124.52	54.81	306.34	1738059.44	14584727.25	40°09'31.4372"N	80°39'1.9046"W	311.21	79.856	3.65	0.37	13.35
2312.00	17.880	88.770	2272.57	139.14	54.73	332.55	1738085.64	14584727.17	40°09'31.4354"N	80°39'1.5671"W	337.02	80.654	2.31	2.10	-3.30
2402.00	18.360	85.390	2358.11	153.46	56.16	360.49	1738113.57	14584728.60	40°09'31.4485"N	80°39'1.2072"W	364.84	81.145	1.28	0.53	-3.76
2492.00	21.620	78.830	2442.69	166.73	60.52	390.90	1738143.97	14584732.95	40°09'31.4903"N	80°39'0.8153"W	395.56	81.200	4.39	3.62	-7.29
2582.00	23.690	75.130	2525.74	178.93	68.37	424.64	1738177.70	14584740.80	40°09'31.5666"N	80°38'59.9184"W	430.11	80.854	2.79	2.30	-4.11
2671.00	25.640	74.280	2606.62	190.67	78.18	460.46	1738213.50	14584750.61	40°09'31.6621"N	80°38'59.9184"W	467.05	80.364	2.23	2.19	-0.96
2761.00	28.290	73.580	2686.83	203.03	89.48	499.67	1738252.70	14584761.91	40°09'31.7723"N	80°38'59.4129"W	507.62	79.847	2.97	2.94	-0.78
2849.00	29.910	73.300	2763.72	215.67	101.68	540.69	1738293.70	14584774.10	40°09'31.8913"N	80°38'58.8840"W	550.17	79.349	1.85	1.84	-0.32
2941.00	31.760	76.150	2842.72	230.62	114.07	586.18	1738339.17	14584786.49	40°09'32.0119"N	80°38'58.2975"W	597.17	78.988	2.56	2.01	3.10
3031.00	34.240	76.610	2918.19	247.48	125.61	633.81	1738386.79	14584798.02	40°09'32.1241"N	80°38'57.6834"W	646.14	78.791	2.77	2.76	0.51
3121.00	34.020	73.790	2992.69	263.86	138.50	682.63	1738435.58	14584810.91	40°09'32.2496"N	80°38'57.0541"W	696.53	78.531	1.77	-0.24	-3.13
3211.00	36.170	74.050	3066.33	279.55	152.83	732.34	1738485.28	14584825.23	40°09'32.3892"N	80°38'56.4130"W	748.12	78.212	2.39	2.39	0.29
3303.00	37.960	73.500	3139.74	296.22	168.33	785.58	1738538.49	14584840.72	40°09'32.5403"N	80°38'55.7266"W	803.41	77.906	1.98	1.95	-0.60
3393.00	38.080	74.500	3210.64	313.10	183.61	838.87	1738591.76	14584855.99	40°09'32.6892"N	80°38'55.0395"W	858.72	77.654	0.70	0.13	1.11



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Baker Hughes

Operator	SOUTHWESTERN ENERGY
Field	Ohio
Facility	Edward Dremak OHI Pad
Slot	Slot #410H
	Wellbore
	API/ Legal
	Edward Dremak OHI 410H

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)	(N 40°E)	(E 90°N)	(ft)	(°)	(ft/100ft)	(ft/100ft)	(°/100ft)
3482.00	38.530	75.890	3280.48	331.00	197.70	892.20	1738645.07	14584870.08	40°09'32.8264"N	80°38'54.3519"W	913.84	77.506	1.09	0.51	1.56
3575.00	37.840	72.580	3353.59	348.73	213.30	947.51	1738700.36	14584885.68	40°09'32.9784"N	80°38'53.6386"W	971.23	77.313	2.32	-0.74	-3.56
3667.00	38.990	73.780	3425.67	365.37	229.83	1002.23	1738755.06	14584902.20	40°09'33.1396"N	80°38'52.9331"W	1028.25	77.084	1.49	1.25	1.30
3756.00	39.130	74.910	3494.78	382.77	244.97	1056.23	1738809.04	14584917.33	40°09'33.2870"N	80°38'52.2368"W	1084.27	76.943	0.82	0.16	1.27
3849.00	36.560	76.540	3568.21	401.75	259.06	1111.51	1738864.30	14584931.41	40°09'33.4241"N	80°38'51.5241"W	1141.30	76.881	2.97	-2.76	1.75
3941.00	36.500	78.400	3642.14	421.55	270.94	1164.97	1738917.73	14584943.29	40°09'33.5394"N	80°38'50.8350"W	1196.06	76.907	1.21	-0.07	2.02
4034.00	37.980	77.550	3716.18	442.35	282.67	1220.01	1738972.75	14584955.02	40°09'33.6532"N	80°38'50.1255"W	1252.33	76.955	1.68	1.59	-0.91
4126.00	36.380	73.920	3789.49	460.90	296.33	1273.88	1739026.60	14584968.67	40°09'33.7661"N	80°38'49.4310"W	1307.89	76.905	2.95	-1.74	-3.95
4219.00	37.320	74.710	3863.91	478.18	311.40	1327.57	1739080.27	14584983.74	40°09'33.9329"N	80°38'48.7387"W	1363.61	76.799	1.13	1.01	0.85
4312.00	39.020	73.880	3937.02	495.96	326.97	1382.90	1739135.57	14584999.30	40°09'34.0846"N	80°38'48.0253"W	1421.02	76.697	1.91	1.83	-0.89
4405.00	37.450	70.700	4010.07	511.86	344.44	1437.72	1739190.37	14585016.77	40°09'34.2551"N	80°38'47.3184"W	1478.40	76.527	2.71	-1.69	-3.42
4497.00	37.920	70.610	4082.88	525.83	363.08	1490.78	1739243.42	14585035.39	40°09'34.4371"N	80°38'46.6340"W	1534.36	76.312	0.51	0.51	-0.10
4590.00	37.710	72.000	4156.35	540.62	381.35	1544.79	1739297.41	14585053.66	40°09'34.6156"N	80°38'45.9374"W	1591.16	76.133	0.94	-0.23	1.49
4683.00	36.820	74.510	4230.37	557.06	397.59	1598.70	1739351.29	14585069.89	40°09'34.7739"N	80°38'45.2423"W	1647.40	76.034	1.89	-0.96	2.70
4775.00	37.260	76.690	4303.81	575.40	411.36	1652.37	1739404.94	14585083.66	40°09'34.9079"N	80°38'44.5503"W	1702.80	76.020	1.51	0.48	2.37
4868.00	36.680	78.080	4378.11	595.54	423.58	1706.95	1739459.50	14585095.87	40°09'35.0265"N	80°38'43.8468"W	1758.72	76.064	1.09	-0.62	1.49
4961.00	38.770	80.630	4451.67	617.88	434.06	1762.86	1739515.39	14585106.35	40°09'35.1279"N	80°38'43.1260"W	1815.51	76.168	2.80	2.25	2.74
5054.00	39.880	80.310	4523.61	642.03	443.82	1820.98	1739573.49	14585116.10	40°09'35.2220"N	80°38'42.3770"W	1874.29	76.303	1.21	1.19	-0.34
5147.00	37.770	76.720	4596.27	664.14	455.38	1878.11	1739630.59	14585127.66	40°09'35.3340"N	80°38'41.6406"W	1932.53	76.371	3.32	-2.27	-3.86
5240.00	38.450	77.480	4669.24	684.55	468.19	1934.05	1739686.52	14585140.47	40°09'35.4584"N	80°38'40.9194"W	1989.92	76.392	0.89	0.73	0.82
5332.00	39.120	75.990	4740.96	704.69	481.42	1990.14	1739742.58	14585153.69	40°09'35.5869"N	80°38'40.1963"W	2047.54	76.401	1.25	0.73	-1.62
5425.00	39.420	75.120	4812.96	724.13	496.11	2047.14	1739799.56	14585168.37	40°09'35.7298"N	80°38'39.4614"W	2106.40	76.378	0.67	0.32	-0.94
5518.00	38.230	74.150	4885.41	742.50	511.55	2103.37	1739855.76	14585183.81	40°09'35.8802"N	80°38'38.7365"W	2164.68	76.331	1.44	-1.28	-1.04
5611.00	36.440	74.350	4959.35	759.91	526.86	2157.65	1739910.02	14585199.11	40°09'36.0293"N	80°38'38.0366"W	2221.04	76.278	1.93	-1.92	0.22
5703.00	37.020	74.780	5033.08	777.18	541.50	2210.68	1739963.04	14585213.75	40°09'36.1719"N	80°38'37.3527"W	2276.04	76.237	0.69	0.63	0.47
5796.00	37.300	75.150	5107.20	795.19	556.07	2264.94	1740017.27	14585228.31	40°09'36.3137"N	80°38'36.6532"W	2332.20	76.206	0.39	0.30	0.40
5889.00	38.580	76.840	5180.55	814.50	569.90	2320.41	1740072.73	14585242.13	40°09'36.4482"N	80°38'35.9380"W	2389.37	76.201	1.77	1.38	1.82
5981.00	39.200	77.450	5252.16	835.08	582.75	2376.72	1740129.02	14585254.98	40°09'36.5729"N	80°38'35.2120"W	2447.12	76.224	0.79	0.67	0.66
6071.00	37.790	78.360	5322.59	855.73	594.49	2431.50	1740183.77	14585266.72	40°09'36.6868"N	80°38'34.5060"W	2503.12	76.261	1.69	-1.57	1.01
6161.00	38.240	86.139	5393.54	879.98	601.94	2486.33	1740238.57	14585274.16	40°09'36.7582"N	80°38'33.7994"W	2558.15	76.391	5.34	0.50	8.63

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Baker Hughes

Operator	SOUTHWESTERN ENERGY
Field	Ohio
Facility	Edward Dremak OHI Pad
Slot	Slot #410H
	Well
	Edward Dremak OHI 410H
	AP/Legal
	Wellbore
	Edward Dremak OHI 410H AWB

WELLPATH DATA (224 stations)												
MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dist	Closure Dir
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(US ft)	(US ft)	(° N)	(° W)	(ft)	(°)
6250.00	41.220	97.940	5462.08	913.24	599.74	2542.94	1740295.17	14585271.97	40°09'36".7343"N	80°38'33".0703"W	2612.71	76.730
6340.00	43.700	107.170	5528.54	957.13	586.45	2602.08	1740354.29	14585258.68	40°09'36".6006"N	80°38'32".3093"W	2667.35	77.299
6430.00	51.400	112.040	5589.26	1010.43	564.04	2664.50	1740416.68	14585236.28	40°09'36".3766"N	80°38'31".5066"W	2723.55	78.048
6520.00	58.860	118.650	5640.71	1073.77	532.30	2731.04	1740483.19	14585204.56	40°09'36".0604"N	80°38'30".6512"W	2782.44	78.971
6609.00	61.940	124.020	5684.69	1143.92	492.04	2797.07	1740549.19	14585164.31	40°09'35".6598"N	80°38'29".8029"W	2840.02	80.023
6652.00	64.220	127.450	5704.16	1179.82	469.65	2828.17	1740580.29	14585141.92	40°09'35".4373"N	80°38'29".4034"W	2866.90	80.572
6699.00	65.010	129.500	5724.31	1220.25	443.23	2861.41	1740613.51	14585115.51	40°09'35".1749"N	80°38'28".9767"W	2895.54	81.195
6742.00	67.450	133.270	5741.62	1258.29	417.20	2890.93	1740643.02	14585089.50	40°09'34".9165"N	80°38'28".5978"W	2920.88	81.788
6770.00	69.240	136.630	5751.93	1283.81	398.81	2909.35	1740661.43	14585071.11	40°09'34".7340"N	80°38'28".3616"W	2936.56	82.195
6860.00	71.110	143.310	5782.48	1367.90	334.01	2963.74	1740715.80	14585006.34	40°09'34".0915"N	80°38'27".6644"W	2982.50	83.570
6950.00	76.110	151.050	5807.90	1454.13	261.49	3010.42	1740762.46	14584933.85	40°09'33".3731"N	80°38'27".0670"W	3021.76	85.036
7040.00	83.370	160.010	5823.95	1541.37	181.00	3046.97	1740799.00	14584853.39	40°09'32".5761"N	80°38'26".6005"W	3052.34	86.601
7129.00	89.350	165.210	5829.61	1626.53	96.30	3073.48	1740825.50	14584768.72	40°09'31".7381"N	80°38'26".2634"W	3074.99	88.205
7219.00	89.260	165.040	5830.70	1711.70	9.32	3096.58	1740848.59	14584681.78	40°09'30".8777"N	80°38'25".9704"W	3096.60	89.828
7309.00	89.350	163.970	5831.79	1797.17	-77.40	3120.62	1740872.62	14584595.09	40°09'30".0197"N	80°38'25".6653"W	3121.58	91.421
7398.00	90.710	165.150	5831.74	1881.67	-163.18	3144.32	1740896.31	14584509.34	40°09'29".1711"N	80°38'25".3646"W	3148.55	92.971
7488.00	89.910	162.670	5831.26	1967.43	-249.65	3169.26	1740921.24	14584422.91	40°09'28".3156"N	80°38'25".0479"W	3179.08	94.504
7578.00	89.080	162.790	5832.05	2053.74	-335.59	3195.98	1740947.95	14584337.00	40°09'27".4653"N	80°38'24".7083"W	3213.55	95.994
7668.00	89.450	163.480	5833.20	2139.13	-422.35	3219.82	1740971.78	14584250.28	40°09'26".6070"N	80°38'24".4057"W	3247.40	97.473
7758.00	90.340	165.710	5833.37	2223.80	-509.71	3241.44	1740993.40	14584162.95	40°09'25".7428"N	80°38'24".1318"W	3281.28	98.936
7848.00	89.420	163.640	5833.56	2309.19	-596.50	3265.23	1741017.17	14584076.19	40°09'24".8842"N	80°38'23".8300"W	3319.27	100.353
7938.00	89.570	160.100	5834.35	2395.86	-682.02	3293.23	1741045.16	14583990.71	40°09'24".0380"N	80°38'23".4738"W	3363.11	101.700
8028.00	88.370	159.060	5835.97	2483.42	-766.35	3324.62	1741076.54	14583906.41	40°09'23".2034"N	80°38'23".0739"W	3411.81	102.980
8118.00	89.020	163.380	5838.02	2570.33	-851.51	3353.58	1741105.49	14583821.28	40°09'22".3606"N	80°38'22".7054"W	3460.00	104.247
8207.00	88.740	164.370	5839.76	2655.15	-936.99	3378.30	1741130.20	14583735.83	40°09'21".5149"N	80°38'22".3915"W	3505.83	105.502
8298.00	88.860	165.470	5841.67	2741.35	-1024.84	3401.97	1741153.86	14583648.02	40°09'20".6459"N	80°38'22".0913"W	3552.98	106.765
8387.00	87.470	165.370	5844.51	2825.38	-1110.93	3424.36	1741176.24	14583561.97	40°09'19".7943"N	80°38'21".8074"W	3600.05	107.974
8477.00	90.120	167.550	5846.41	2909.82	-1198.39	3445.42	1741197.29	14583474.54	40°09'18.9291"N	80°38'21".5407"W	3647.89	109.179
8567.00	91.450	164.110	5845.72	2994.60	-1285.63	3467.45	1741219.31	14583387.33	40°09'18.0661"N	80°38'21".2616"W	3698.11	110.343
8657.00	88.710	165.610	5845.05	3079.89	-1372.50	3490.95	1741242.80	14583300.50	40°09'17.2068"N	80°38'20.9635"W	3751.06	111.463

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Field	Ohio
Facility	Edward Dremak OHI Pad
Slot	Slot #410H
Well	Edward Dremak OHI 410H
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Edward Dremak OHI 410H AWP	

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]			[ft]	[°/100ft]	[°/100ft]	[°/100ft]
8747.00	88.180	164.490	5847.49	3165.07	-1459.42	3514.16	1741266.00	14583213.61	40°09'16.3469"N	80°38'20.6691"W	3805.16	112.553	1.38	-0.59
8837.00	89.780	166.130	5849.09	3250.13	-1546.46	3536.98	1741288.81	14583126.61	40°09'15.4859"N	80°38'20.3798"W	3860.28	113.616	2.55	1.78
8927.00	88.980	167.280	5850.07	3334.46	-1634.04	3557.67	1741309.50	14583039.06	40°09'14.6196"N	80°38'20.1179"W	3914.98	114.669	1.56	-0.89
9016.00	89.260	167.230	5851.43	3417.54	-1720.83	3577.30	1741329.12	14582952.30	40°09'13.7611"N	80°38'19.6696"W	3969.68	115.690	0.32	0.31
9106.00	89.660	162.560	5852.28	3502.80	-1807.69	3600.76	1741352.57	14582865.47	40°09'12.9018"N	80°38'19.5721"W	4029.04	116.658	5.22	0.44
9196.00	88.890	159.600	5853.42	3589.80	-1892.81	3629.94	1741381.74	14582780.39	40°09'12.0595"N	80°38'19.2007"W	4093.80	117.540	3.39	-0.86
9285.00	89.080	164.540	5855.00	3675.40	-1977.45	3657.33	1741409.12	14582695.78	40°09'11.2220"N	80°38'18.8525"W	4157.68	118.399	5.55	0.21
9375.00	89.290	165.530	5856.28	3760.60	-2064.39	3680.56	1741432.34	14582608.88	40°09'10.3619"N	80°38'18.5578"W	4219.98	119.288	1.12	0.23
9464.00	89.420	164.080	5857.28	3844.98	-2150.27	3703.89	1741455.66	14582523.03	40°09'9.5123"N	80°38'18.2619"W	4282.81	120.137	1.64	-1.63
9554.00	90.340	165.050	5857.47	3930.43	-2237.02	3727.84	1741479.60	14582436.32	40°09'8.6541"N	80°38'17.9580"W	4347.54	120.967	1.49	1.02
9646.00	88.920	165.210	5858.06	4017.49	-2325.93	3751.45	1741503.20	14582347.44	40°09'7.7745"N	80°38'17.6586"W	4414.00	121.799	1.55	-1.54
9739.00	90.620	165.170	5858.44	4105.46	-2415.84	3775.22	1741526.97	14582257.56	40°09'6.8851"N	80°38'17.3572"W	4482.03	122.616	1.83	-0.04
9832.00	88.620	163.020	5859.05	4193.98	-2505.27	3800.70	1741552.44	14582168.17	40°09'6.0003"N	80°38'17.0337"W	4552.11	123.391	3.16	-2.15
9925.00	89.820	166.340	5860.32	4282.20	-2594.94	3825.27	1741576.99	14582078.53	40°09'5.1132"N	80°38'16.7220"W	4622.38	124.152	3.80	1.29
10017.00	88.860	164.330	5861.38	4369.14	-2683.93	3848.56	1741600.27	14581989.58	40°09'4.2328"N	80°38'16.4268"W	4692.00	124.891	2.42	-1.04
10110.00	89.290	167.040	5862.88	4456.83	-2774.03	3871.55	1741623.25	14581899.52	40°09'3.3416"N	80°38'16.1355"W	4762.78	125.622	2.95	0.46
10203.00	88.400	163.500	5864.76	4544.73	-2863.94	3895.18	1741646.88	14581809.64	40°09'2.4522"N	80°38'15.8358"W	4834.73	126.325	3.92	-0.96
10296.00	88.430	166.440	5867.33	4632.78	-2953.71	3919.29	1741670.98	14581719.91	40°09'1.5641"N	80°38'15.5301"W	4907.67	127.003	3.16	0.03
10388.00	89.050	165.960	5869.35	4719.25	-3043.03	3941.23	1741692.91	14581630.62	40°09'0.6805"N	80°38'15.2523"W	4979.29	127.672	0.85	0.67
10481.00	90.250	165.670	5869.94	4806.89	-3133.19	3964.02	1741715.69	14581540.49	40°08'59.7886"N	80°38'14.9635"W	5052.76	128.323	1.33	-0.31
10574.00	89.230	164.790	5870.31	4891.67	-3223.27	3987.13	1741738.79	14581450.45	40°08'58.8975"N	80°38'14.6706"W	5127.05	128.953	1.10	-0.13
10666.00	89.570	165.550	5871.34	4981.67	-3312.20	4010.68	1741762.33	14581361.55	40°08'58.0178"N	80°38'14.3721"W	5201.56	129.551	0.90	0.37
10759.00	89.230	167.310	5872.28	5069.18	-3402.45	4033.09	1741784.74	14581271.34	40°08'57.1251"N	80°38'14.0881"W	5276.60	130.152	2.73	-0.37
10851.00	91.480	167.040	5871.71	5155.11	-3492.14	4053.51	1741805.15	14581181.68	40°08'56.2378"N	80°38'13.8299"W	5350.33	130.745	2.46	2.45
10944.00	88.860	165.680	5871.43	5242.44	-3582.51	4075.44	1741827.07	14581091.35	40°08'55.3440"N	80°38'13.5523"W	5426.20	131.317	3.17	-2.82
11036.00	89.020	166.090	5873.14	5329.09	-3671.72	4097.87	1741849.49	14581002.18	40°08'54.4615"N	80°38'13.2681"W	5502.19	131.861	0.48	0.17
11126.00	89.720	167.770	5874.13	5413.29	-3759.38	4118.22	1741869.83	14580914.55	40°08'53.5944"N	80°38'13.0106"W	5576.08	132.392	2.02	0.78
11215.00	89.380	164.680	5874.83	5496.94	-3845.80	4139.41	1741891.01	14580828.16	40°08'52.7395"N	80°38'12.7423"W	5650.22	132.894	3.49	-0.38
11305.00	91.230	167.490	5874.35	5581.60	-3933.15	4161.05	1741912.65	14580740.85	40°08'51.8755"N	80°38'12.4683"W	5725.73	133.387	3.74	2.06
11397.00	89.880	164.400	5873.45	5668.21	-4022.38	4183.39	1741934.98	14580651.66	40°08'50.9928"N	80°38'12.1853"W	5803.47	133.876	3.67	-1.47

WELLPATH DATA (224 stations)

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Edward Dremak OHI 410H AWP Proj: 15278

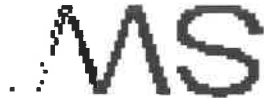
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Baker Hughes

Operator	SOUTHWESTERN ENERGY
Field	Ohio
Facility	Edward Dremak OHI Pad
Slot	Slot #410H
	Well
	Edward Dremak OHI 410H
	AP/Legal
	Wellbore
	Edward Dremak OHI 410H AWB

WELLPATH DATA (224 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)	(°)	(ft/100ft)	(ft/100ft)	(ft/100ft)
11486.00	89.280	165.440	5874.10	5752.53	-4108.31	4206.55	1741958.12	1458055.76	40°08'50.1427"N	80°38'11.8917"W	5879.90	134.323	1.34	-0.66	1.17
11578.00	90.000	163.040	5874.67	5840.04	-4196.84	4231.53	1741963.10	1458047.26	40°08'49.2668"N	80°38'11.5746"W	5959.81	134.764	2.72	0.77	-2.61
11670.00	89.050	164.120	5875.43	5927.86	-4285.08	4257.54	1742009.09	1458038.99	40°08'48.3938"N	80°38'11.2444"W	6040.58	135.185	1.56	-1.03	1.17
11758.00	90.490	166.330	5875.79	6011.08	-4370.17	4279.98	1742031.52	1458030.00	40°08'47.5521"N	80°38'10.9599"W	6116.91	135.597	3.00	1.64	2.51
11848.00	89.600	162.700	5875.71	6096.54	-4456.88	4304.00	1742055.54	1458021.72	40°08'46.6942"N	80°38'10.6551"W	6195.82	136.000	4.15	-0.99	-4.03
11941.00	88.710	164.460	5877.09	6185.32	-4546.08	4330.28	1742081.81	14580128.16	40°08'45.8117"N	80°38'10.3213"W	6278.39	136.393	2.12	-0.96	1.89
12032.00	90.620	164.590	5877.62	6271.73	-4633.77	4354.56	1742106.08	14580040.50	40°08'44.9441"N	80°38'10.0133"W	6358.78	136.779	2.10	2.10	0.14
12122.00	89.450	162.750	5877.56	6357.61	-4720.14	4379.87	1742131.37	14579954.17	40°08'44.0897"N	80°38'9.6920"W	6439.17	137.141	2.42	-1.30	-2.04
12212.00	89.820	162.860	5878.14	6443.89	-4806.11	4406.47	1742157.97	14579868.23	40°08'43.2390"N	80°38'9.3540"W	6520.41	137.484	0.43	0.41	0.12
12301.00	90.150	165.180	5878.16	6528.64	-4891.67	4430.97	1742182.46	14579782.71	40°08'42.3925"N	80°38'9.0430"W	6600.15	137.829	2.63	0.37	2.61
12390.00	89.690	165.300	5878.28	6612.81	-4977.73	4453.65	1742205.13	14579696.68	40°08'41.5411"N	80°38'8.7556"W	6679.28	138.181	0.53	-0.52	0.13
12480.00	89.540	165.480	5878.89	6697.84	-5064.82	4476.35	1742227.82	14579609.62	40°08'40.6796"N	80°38'8.4678"W	6759.44	138.529	0.26	-0.17	0.20
12569.00	89.780	166.350	5879.42	6781.66	-5151.14	4498.01	1742249.47	14579523.34	40°08'39.8257"N	80°38'8.1935"W	6838.59	138.872	1.01	0.27	0.98
12659.00	90.580	167.040	5879.13	6866.00	-5238.72	4518.72	1742270.17	14579435.79	40°08'38.9594"N	80°38'7.9314"W	6918.31	139.220	1.17	0.89	0.77
12749.00	89.540	166.130	5879.04	6950.40	-5326.26	4539.60	1742291.04	14579348.28	40°08'38.0935"N	80°38'7.6672"W	6998.36	139.559	1.54	-1.16	-1.01
12838.00	90.770	166.860	5878.80	7033.91	-5412.80	4560.38	1742311.82	14579261.78	40°08'37.2375"N	80°38'7.4042"W	7077.82	139.885	1.61	1.38	0.82
12928.00	89.540	164.970	5878.56	7118.67	-5500.09	4582.28	1742333.71	14579174.52	40°08'36.3740"N	80°38'7.1268"W	7158.79	140.201	2.51	-1.37	-2.10
13017.00	89.970	166.280	5878.94	7202.63	-5586.30	4604.38	1742355.80	14579088.35	40°08'35.5212"N	80°38'6.8468"W	7239.27	140.504	1.55	0.48	1.47
13106.00	89.690	165.480	5879.20	7286.47	-5672.61	4626.09	1742377.50	14579002.07	40°08'34.6674"N	80°38'6.5718"W	7319.78	140.802	0.95	-0.31	-0.90
13196.00	90.280	165.780	5879.22	7371.38	-5759.79	4648.43	1742399.83	14578914.92	40°08'33.8049"N	80°38'6.2888"W	7401.56	141.095	0.74	0.66	0.33
13284.00	90.220	166.360	5878.84	7454.18	-5845.20	4669.61	1742421.00	14578829.54	40°08'32.9600"N	80°38'6.0205"W	7481.42	141.379	0.66	-0.07	0.66
13374.00	89.630	164.480	5878.96	7539.19	-5932.30	4692.27	1742443.65	14578742.48	40°08'32.0984"N	80°38'5.7334"W	7563.70	141.657	2.19	-0.66	-2.09
13464.00	90.000	165.800	5879.25	7624.36	-6019.29	4715.35	1742466.72	14578655.53	40°08'31.2379"N	80°38'5.4408"W	7646.33	141.926	1.52	0.41	1.47
13553.00	89.820	163.710	5879.39	7708.76	-6105.15	4738.75	1742490.11	14578569.70	40°08'30.3884"N	80°38'5.1441"W	7728.43	142.182	2.36	-0.20	-2.35
13643.00	89.290	162.290	5880.09	7794.94	-6191.21	4765.06	1742516.41	14578483.67	40°08'29.5369"N	80°38'4.8098"W	7812.61	142.416	1.68	-0.59	-1.58
13736.00	90.090	162.580	5880.59	7884.27	-6279.88	4793.12	1742544.47	14578395.04	40°08'28.6596"N	80°38'4.4531"W	7900.06	142.647	0.91	0.86	0.31
13829.00	90.280	161.600	5880.29	7973.74	-6368.37	4821.72	1742573.06	14578306.58	40°08'27.7839"N	80°38'4.0896"W	7987.81	142.869	1.07	0.20	-1.05
13921.00	90.400	162.670	5879.74	8062.23	-6455.93	4849.95	1742601.27	14578219.06	40°08'26.9175"N	80°38'3.7308"W	8074.71	143.085	1.17	0.13	1.16
14014.00	90.460	165.190	5879.05	8150.84	-6545.29	4875.69	1742627.00	14578129.73	40°08'26.0335"N	80°38'3.4041"W	8161.68	143.317	2.71	0.06	2.71
14107.00	90.030	166.320	5878.65	8238.51	-6635.42	4898.57	1742649.87	14578039.63	40°08'25.1418"N	80°38'3.1143"W	8247.72	143.564	1.30	-0.46	1.22



Actual Wellpath Report
Edward Dremak OHI 410H AWP Proj: 15278



Operator	SOUTHWESTERN ENERGY
Field	Ohio
Facility	Edward Dremak OHI Pad
Slot	Slot #410H
Well	Edward Dremak OHI 410H
AP/ Legal	Wellbore
Edward Dremak OHI 410H AWP	

WELLPATH DATA (224 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)
14197.00	89.170	164.130	5879.28	8323.63	-6722.44	4921.52	1742672.81	14577952.65	40°08'24.2810"N	80°38'2.8234"W	8331.42	143.792	2.61	-0.96	-2.43
14286.00	89.880	163.840	5880.02	8408.40	-6807.98	4946.07	1742697.36	14577867.14	40°08'23.4346"N	80°38'2.5118"W	8415.00	144.001	0.86	0.80	-0.33
14374.00	88.950	164.140	5880.91	8492.22	-6892.56	4970.34	1742721.62	14577782.59	40°08'22.5978"N	80°38'2.2038"W	8497.75	144.204	1.11	-1.06	0.34
14464.00	90.000	164.730	5881.74	8577.73	-6979.26	4994.49	1742745.76	14577695.93	40°08'21.7401"N	80°38'1.8974"W	8582.25	144.412	1.34	1.17	0.66
14554.00	89.660	165.370	5882.01	8662.94	-7066.21	5017.71	1742768.97	14577609.01	40°08'20.8799"N	80°38'1.6031"W	8666.53	144.621	0.81	-0.38	0.71
14644.00	89.230	166.230	5882.88	8747.76	-7153.45	5039.78	1742791.03	14577521.80	40°08'20.0169"N	80°38'1.3235"W	8750.51	144.834	1.07	-0.48	0.96
14733.00	89.690	166.560	5883.72	8831.32	-7239.95	5060.72	1742811.96	14577435.34	40°08'19.1612"N	80°38'1.0585"W	8833.33	145.046	0.64	0.52	0.37
14823.00	89.720	165.860	5884.18	8915.92	-7327.36	5082.17	1742833.40	14577347.97	40°08'18.2966"N	80°38'0.7870"W	8917.32	145.255	0.78	0.03	-0.78
14916.00	89.420	165.560	5884.88	9003.62	-7417.48	5105.13	1742856.35	14577257.88	40°08'17.4051"N	80°38'0.4962"W	9004.51	145.462	0.46	-0.32	-0.32
15006.00	89.910	167.180	5885.40	9088.13	-7504.94	5126.33	1742877.55	14577170.46	40°08'16.5400"N	80°38'0.2278"W	9088.64	145.665	1.88	0.54	1.80
15095.00	89.230	165.920	5886.07	9171.61	-7591.49	5147.03	1742898.24	14577083.94	40°08'15.6838"N	80°37'59.9659"W	9171.84	145.863	1.61	-0.76	-1.42
15183.00	89.080	165.310	5887.37	9254.63	-7676.72	5168.89	1742920.09	14576998.74	40°08'14.8407"N	80°37'59.6889"W	9254.70	146.047	0.71	-0.17	-0.69
15253.00	89.510	165.330	5888.23	9320.79	-7744.43	5186.63	1742937.82	14576931.06	40°08'14.1708"N	80°37'59.4641"W	9320.80	146.189	0.61	0.61	0.03
15278.00†	89.510	165.330	5888.44	9344.42	-7768.62	5192.96	1742944.15	14576906.88	40°08'13.9316"N	80°37'59.3839"W	9344.42	146.239	0.00	0.00	0.00

String/Diameter	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	End N/S	Start EW	End EW
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
20in Conductor	26.00	100.00	74.00	26.00	100.00	0.00	0.00	0.00	-0.08
17.5in Open Hole	100.00	367.00	267.00	100.00	366.99	-0.08	0.29	0.00	-2.54
13.375in Casing Surface	26.00	367.00	341.00	26.00	366.99	0.00	0.00	0.00	-2.54
12.25in Open Hole	367.00	1653.00	1286.00	366.99	1633.73	-2.54	-0.10	-0.10	39.81
9.625in Casing Intermediate	26.00	1653.00	1627.00	26.00	1633.73	0.00	0.00	0.00	39.81
8.75in Open Hole	1653.00	6802.00	5149.00	1633.73	5763.10	39.81	174.19	174.19	174.19
8.5in Open Hole	6802.00	15278.00	8476.00	5763.10	5888.44	376.59	2929.48	2929.48	-7768.62
5.5in Casing Production	26.00	15278.00	15252.00	26.00	5888.44	0.00	0.00	0.00	-7768.62

HOLE & CASING SECTIONS - Ref Wellbore: Edward Dremak OHI 410H AWB Ref Wellpath: Edward Dremak OHI 410H AWP Proj: 15278

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Actual Wellpath Report

Edward Dremak OHI 410H AWP Proj: 15278

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Operator	SOUTHWESTERN ENERGY	Well	Edward Dremak OHI 410H
Field	Ohio	API/Legal	
Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 410H AWB
Slot	Slot #410H		

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	-111.29	808.00	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	-2304.49	636.68	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	-11165.21	4784.86	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	-12907.77	4921.21	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	-10728.22	6257.72	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	-13626.37	4923.91	1742675.20	14571051.42	40°07'16.0562"N	80°38'3.1584"W
2D Polygon: dimensions not calculated							
Edward Dremak OHI 410H LP Rev-5	5823.00	147.41	3053.27	1740805.30	14584819.81	40°09'32.2440"N	80°38'26.5210"W
point							
Edward Dremak OHI 410H BHL Rev-4	6038.03	-778.00	5193.07	1742944.26	14576897.51	40°08'13.8389"N	80°37'59.3830"W
point							

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Edward Dremak OHI 410H AWP Proj: 15278'

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Baker Hughes

Operator	SOUTHWESTERN ENERGY	Well	Edward Dremak OHI 410H
Field	Ohio	API/Legal	
Facility	Edward Dremak OHI Pad	Wellbore	Edward Dremak OHI 410H AWB
Slot	Slot #410H		

COMMENTS	
Wellpath general comments API: 47-069-00319-0000 BH Job #: 110217332A Rig: SDC 42 Duration: 01/08/2020 - 01/11/2020	

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