

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY		Slot	Slot 205H
Area	Ohio County, WV		Well	Roy Riggle OHI 205H
Field	Ohio		Wellbore	Roy Riggle OHI 205H AWB
Facility	Roy Riggle OHI Pad			

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1	
North Reference	Grid	User	Hilpthop	
Scale	0.999620	Report Generated	14/May/2019 at 13:09	
Convergence at slot	0.31° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Roy_Riggle_OHI_205H_AWP_Proj_17232_.xml	

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	30.76	25.85	1773473.36	14582305.70	40°09'05.872"N	80°31'25.788"W
Facility Reference Pt			1773447.52	14582274.95	40°09'05.569"N	80°31'26.123"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 42 (KB) to Facility Vertical Datum	1277.80ft
Horizontal Reference Pt	Slot	SDC 42 (KB) to Mean Sea Level	1277.80ft
Vertical Reference Pt	SDC 42 (KB)	SDC 42 (KB) to Ground Level at Slot (Slot 205H)	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	346.25°

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WELLPATH DATA (189 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	274.520	0.00	0.00	0.00	0.00	1773473.36	14582305.69	40°09'05.872"N	80°31'25.788"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	274.520	26.00	0.00	0.00	0.00	1773473.36	14582305.69	40°09'05.872"N	80°31'25.788"W	0.00	0.000	0.00	0.00	0.00
151.00	0.330	274.520	151.00	0.11	0.03	-0.36	1773473.00	14582305.72	40°09'05.872"N	80°31'25.793"W	0.36	274.520	0.26	0.26	-68.38
212.00	0.420	269.650	212.00	0.22	0.04	-0.76	1773472.60	14582305.74	40°09'05.872"N	80°31'25.798"W	0.76	273.086	0.16	0.15	-7.98
303.00	0.500	262.760	303.00	0.34	-0.01	-1.48	1773471.87	14582305.68	40°09'05.872"N	80°31'25.807"W	1.49	269.567	0.11	0.09	-7.57
393.00	0.730	267.250	392.99	0.50	-0.09	-2.45	1773470.91	14582305.61	40°09'05.871"N	80°31'25.820"W	2.45	267.935	0.26	0.26	4.99
484.00	0.890	268.620	483.98	0.76	-0.13	-3.73	1773469.63	14582305.56	40°09'05.870"N	80°31'25.836"W	3.74	267.958	0.18	0.18	1.51
574.00	0.970	281.990	573.97	1.24	0.01	-5.18	1773468.18	14582305.70	40°09'05.872"N	80°31'25.855"W	5.18	270.093	0.26	0.09	14.86
624.00	0.940	283.790	623.96	1.61	0.19	-5.99	1773467.37	14582305.89	40°09'05.874"N	80°31'25.865"W	5.99	271.856	0.08	-0.06	3.60
705.00	0.800	282.110	704.95	2.17	0.47	-7.19	1773466.17	14582306.17	40°09'05.877"N	80°31'25.881"W	7.20	273.750	0.18	-0.17	-2.07
800.00	1.460	356.580	799.94	3.65	1.82	-7.91	1773465.45	14582307.51	40°09'05.890"N	80°31'25.890"W	8.11	282.950	1.54	0.69	78.39
894.00	3.430	8.730	893.85	7.42	5.79	-7.55	1773465.81	14582311.49	40°09'05.929"N	80°31'25.885"W	9.52	307.492	2.16	2.10	12.93
988.00	4.170	1.630	987.64	13.32	11.99	-7.03	1773466.33	14582317.68	40°09'05.990"N	80°31'25.878"W	13.90	329.620	0.93	0.79	-7.55
1083.00	3.400	351.870	1082.43	19.45	18.23	-7.33	1773466.03	14582323.92	40°09'06.052"N	80°31'25.881"W	19.65	338.100	1.05	-0.81	-10.27
1177.00	1.890	323.630	1176.34	23.66	22.24	-8.64	1773464.72	14582327.93	40°09'06.092"N	80°31'25.898"W	23.86	338.764	2.08	-1.61	-30.04
1272.00	1.510	252.790	1271.30	25.03	23.13	-10.77	1773462.60	14582328.82	40°09'06.101"N	80°31'25.925"W	25.51	335.038	2.10	-0.40	-74.57
1366.00	1.520	210.360	1365.27	24.06	21.69	-12.58	1773460.78	14582327.37	40°09'06.087"N	80°31'25.949"W	25.07	329.884	1.17	0.01	-45.14
1458.00	1.460	133.040	1457.25	22.20	19.83	-12.34	1773461.02	14582325.52	40°09'06.068"N	80°31'25.946"W	23.36	328.112	2.02	-0.07	-84.04
1553.00	2.920	107.900	1552.18	19.92	18.26	-9.15	1773464.21	14582323.95	40°09'06.053"N	80°31'25.905"W	20.43	333.384	1.80	1.54	-26.46
1647.00	2.570	111.580	1646.07	17.44	16.75	-4.91	1773468.45	14582322.44	40°09'06.037"N	80°31'25.850"W	17.46	343.651	0.42	-0.37	3.91
1741.00	2.220	112.600	1739.99	15.14	15.28	-1.27	1773472.08	14582320.97	40°09'06.023"N	80°31'25.803"W	15.33	355.233	0.38	-0.37	1.09
1836.00	2.430	107.150	1834.91	13.02	13.98	2.35	1773475.71	14582319.67	40°09'06.010"N	80°31'25.757"W	14.17	9.539	0.32	0.22	-5.74
1930.00	3.770	102.950	1928.77	10.61	12.70	7.26	1773480.62	14582318.39	40°09'05.997"N	80°31'25.694"W	14.63	29.776	1.44	1.43	-4.47
2021.00	5.200	93.810	2019.49	8.02	11.75	14.30	1773487.65	14582317.44	40°09'05.987"N	80°31'25.603"W	18.51	50.574	1.75	1.57	-10.04
2128.00	6.140	90.330	2125.97	5.16	11.40	24.86	1773498.21	14582317.09	40°09'05.983"N	80°31'25.467"W	27.35	65.366	0.94	0.88	-3.25
2222.00	6.320	86.260	2219.41	3.04	11.71	35.05	1773508.39	14582317.40	40°09'05.985"N	80°31'25.336"W	36.95	71.529	0.51	0.19	-4.33
2317.00	6.480	80.290	2313.82	1.75	12.95	45.55	1773518.89	14582318.64	40°09'05.997"N	80°31'25.201"W	47.35	74.126	0.72	0.17	-6.28
2411.00	8.410	69.850	2407.03	2.15	16.21	57.23	1773530.57	14582321.90	40°09'06.029"N	80°31'25.050"W	59.48	74.181	2.50	2.05	-11.11
2505.00	10.430	59.080	2499.76	5.43	22.96	70.99	1773544.32	14582328.64	40°09'06.095"N	80°31'24.872"W	74.61	72.079	2.84	2.15	-11.46
2599.00	11.960	53.980	2591.97	11.63	33.06	86.16	1773559.49	14582338.74	40°09'06.194"N	80°31'24.676"W	92.29	69.011	1.94	1.63	-5.43

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WELLPATH DATA (189 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]
2694.00	13.350	51.490	2684.67	19.95	45.68	102.71	1773576.03	14582351.35	40°09'06.318"N	80°31'24.462"W	112.41	66.025	1.57	1.46	-2.62
2788.00	14.540	53.130	2775.89	29.13	59.51	120.64	1773593.95	14582365.18	40°09'06.453"N	80°31'24.230"W	134.52	63.743	1.33	1.27	1.74
2882.00	16.520	52.670	2866.46	39.11	74.70	140.71	1773614.01	14582380.36	40°09'06.602"N	80°31'23.971"W	159.31	62.038	2.11	2.11	-0.49
2976.00	17.970	50.510	2956.23	50.76	92.03	162.53	1773635.83	14582397.68	40°09'06.772"N	80°31'23.689"W	186.77	60.481	1.69	1.54	-2.30
3071.00	18.970	50.610	3046.34	63.80	111.14	185.77	1773659.06	14582416.80	40°09'06.960"N	80°31'23.388"W	216.48	59.109	1.05	1.05	0.11
3165.00	21.060	50.500	3134.65	77.75	131.58	210.61	1773683.89	14582437.23	40°09'07.161"N	80°31'23.067"W	248.34	58.004	2.22	2.22	-0.12
3259.00	24.080	48.700	3221.44	93.96	154.99	238.06	1773711.33	14582460.63	40°09'07.391"N	80°31'22.712"W	284.07	56.934	3.30	3.21	-1.91
3354.00	24.520	45.940	3308.03	112.88	181.49	266.79	1773740.04	14582487.12	40°09'07.651"N	80°31'22.340"W	322.67	55.773	1.28	0.46	-2.91
3445.37	24.230	42.820	3391.26	132.78	208.43	293.16	1773766.40	14582514.04	40°09'07.916"N	80°31'21.998"W	359.70	54.588	1.44	-0.32	-3.41
3539.48	23.850	39.000	3477.21	154.93	237.38	318.26	1773791.50	14582542.99	40°09'08.201"N	80°31'21.673"W	397.04	53.282	1.70	-0.40	-4.06
3632.25	23.310	43.910	3562.24	176.11	265.18	342.79	1773816.02	14582570.78	40°09'08.474"N	80°31'21.355"W	433.39	52.275	2.20	-0.58	5.29
3726.16	22.930	52.680	3648.64	193.37	289.67	370.24	1773843.45	14582595.25	40°09'08.714"N	80°31'21.000"W	470.09	51.961	3.69	-0.40	9.34
3823.14	21.930	49.220	3738.28	209.15	312.95	398.98	1773872.18	14582618.53	40°09'08.943"N	80°31'20.628"W	507.07	51.890	1.71	-1.03	-3.57
3917.12	22.160	48.270	3825.39	225.44	336.21	425.49	1773898.69	14582641.78	40°09'09.171"N	80°31'20.285"W	542.29	51.685	0.45	0.24	-1.01
4011.37	22.120	48.790	3912.69	241.97	359.73	452.11	1773925.29	14582665.29	40°09'09.402"N	80°31'19.941"W	577.76	51.491	0.21	-0.04	0.55
4105.07	23.380	46.400	3999.10	259.36	384.18	478.84	1773952.02	14582689.73	40°09'09.643"N	80°31'19.595"W	613.91	51.260	1.67	1.34	-2.55
4200.17	22.670	42.590	4086.63	278.91	410.69	504.91	1773978.08	14582716.22	40°09'09.903"N	80°31'19.257"W	650.85	50.876	1.74	-0.75	-4.01
4294.15	21.920	42.140	4173.59	298.78	437.03	528.94	1774002.10	14582742.56	40°09'10.162"N	80°31'18.946"W	686.13	50.435	0.82	-0.80	-0.48
4387.42	22.870	43.900	4259.82	318.24	463.00	553.19	1774026.34	14582768.52	40°09'10.418"N	80°31'18.632"W	721.38	50.072	1.25	1.02	1.89
4477.71	21.610	41.250	4343.39	337.17	488.14	576.32	1774049.46	14582793.66	40°09'10.665"N	80°31'18.332"W	755.26	49.735	1.78	-1.40	-2.93
4570.24	22.770	41.250	4429.07	357.21	514.42	599.36	1774072.49	14582819.91	40°09'10.923"N	80°31'18.034"W	789.85	49.361	1.25	1.25	0.00
4670.94	23.940	39.330	4521.52	380.67	544.87	625.16	1774098.28	14582850.36	40°09'11.223"N	80°31'17.699"W	829.28	48.925	1.39	1.16	-1.91
4767.59	22.630	43.120	4610.30	402.61	573.62	650.30	1774123.41	14582879.09	40°09'11.505"N	80°31'17.374"W	867.13	48.585	2.06	-1.36	3.92
4862.01	23.410	43.680	4697.20	422.64	600.44	675.67	1774148.77	14582905.91	40°09'11.769"N	80°31'17.045"W	903.91	48.374	0.86	0.83	0.59
4956.55	24.810	43.110	4783.49	443.59	628.50	702.20	1774175.29	14582933.96	40°09'12.045"N	80°31'16.702"W	942.39	48.170	1.50	1.48	-0.60
5050.36	23.940	40.850	4868.94	465.38	657.27	728.10	1774201.18	14582962.72	40°09'12.328"N	80°31'16.366"W	980.88	47.927	1.36	-0.93	-2.41
5144.57	24.370	43.580	4954.90	486.94	685.81	754.00	1774227.07	14582991.24	40°09'12.609"N	80°31'16.030"W	1019.24	47.712	1.27	0.46	2.90
5239.74	23.570	43.280	5041.87	507.90	713.89	780.58	1774253.64	14583019.31	40°09'12.885"N	80°31'15.686"W	1057.80	47.555	0.85	-0.84	-0.32
5333.96	22.960	47.000	5128.43	527.13	740.14	806.94	1774279.99	14583045.55	40°09'13.143"N	80°31'15.345"W	1094.97	47.472	1.69	-0.65	3.95
5428.28	22.110	47.440	5215.55	544.67	764.69	833.47	1774306.51	14583070.09	40°09'13.384"N	80°31'15.002"W	1131.11	47.464	0.92	-0.90	0.47

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5622.54	23.430	46.000	5302.46	562.66	789.71	860.01	1774333.05	14583095.10	40°09'13.630"N	80°31'14.658"W	1167.59	47.440	1.52	1.40	-1.53
5616.56	22.520	42.590	5389.02	582.06	815.95	885.65	1774358.67	14583121.33	40°09'13.888"N	80°31'14.326"W	1204.22	47.346	1.71	-0.97	-3.63
5711.10	22.310	43.140	5476.42	601.90	842.37	910.17	1774383.18	14583147.75	40°09'14.147"N	80°31'14.008"W	1240.16	47.215	0.31	-0.22	0.58
5805.31	23.980	48.510	5563.05	620.58	868.11	936.74	1774409.74	14583173.47	40°09'14.400"N	80°31'13.664"W	1277.14	47.178	2.86	1.77	5.70
5899.63	22.530	48.170	5649.71	638.01	892.86	964.57	1774437.56	14583198.21	40°09'14.643"N	80°31'13.304"W	1314.38	47.211	1.54	-1.54	-0.36
5929.85	21.490	47.110	5677.73	643.43	900.49	972.94	1774445.92	14583205.84	40°09'14.718"N	80°31'13.196"W	1325.70	47.215	3.68	-3.44	-3.51
5965.00	20.450	46.180	5710.55	649.64	909.12	982.08	1774455.07	14583214.47	40°09'14.803"N	80°31'13.078"W	1338.28	47.209	3.11	-2.96	-2.65
6060.00	20.940	53.480	5799.43	664.53	930.72	1007.71	1774480.68	14583236.06	40°09'15.015"N	80°31'12.746"W	1371.75	47.274	2.76	0.52	7.68
6154.00	21.250	53.450	5887.13	677.63	950.86	1034.89	1774507.85	14583256.19	40°09'15.213"N	80°31'12.395"W	1405.39	47.423	0.33	0.33	-0.03
6249.00	24.530	33.780	5974.77	697.65	977.55	1059.73	1774532.68	14583282.87	40°09'15.475"N	80°31'12.073"W	1441.74	47.310	8.71	3.45	-20.71
6343.00	29.700	18.910	6058.51	730.49	1015.87	1078.16	1774551.10	14583321.17	40°09'15.853"N	80°31'11.833"W	1481.35	46.704	9.03	5.50	-15.82
6438.00	35.200	8.400	6138.71	775.74	1065.30	1089.80	1774562.74	14583370.58	40°09'16.341"N	80°31'11.679"W	1523.98	45.652	8.27	5.79	-11.06
6532.00	41.990	359.970	6212.18	831.48	1123.65	1093.75	1774566.69	14583428.92	40°09'16.917"N	80°31'11.625"W	1568.08	44.227	9.12	7.22	-8.97
6626.00	48.760	354.320	6278.20	897.12	1190.37	1090.23	1774563.17	14583495.61	40°09'17.577"N	80°31'11.665"W	1614.18	42.486	8.37	7.20	-6.01
6721.00	56.780	348.880	6335.66	972.34	1265.06	1079.01	1774551.96	14583570.27	40°09'18.315"N	80°31'11.805"W	1662.72	40.462	9.59	8.44	-5.73
6815.00	64.710	342.850	6381.59	1054.22	1344.43	1058.85	1774531.80	14583649.61	40°09'19.101"N	80°31'12.059"W	1711.33	38.223	10.12	8.44	-6.41
6909.00	73.130	340.480	6415.38	1141.56	1427.58	1031.24	1774504.20	14583732.73	40°09'19.924"N	80°31'12.408"W	1761.09	35.843	9.26	8.96	-2.52
7004.00	78.660	339.230	6438.52	1233.09	1514.04	999.51	1774472.48	14583819.16	40°09'20.780"N	80°31'12.811"W	1814.21	33.431	5.96	5.82	-1.32
7051.00	82.410	339.150	6446.25	1279.09	1557.37	983.04	1774456.02	14583862.47	40°09'21.209"N	80°31'13.020"W	1841.68	32.261	7.98	7.98	-0.17
7098.00	86.180	338.590	6450.92	1325.46	1600.99	966.18	1774439.17	14583906.07	40°09'21.641"N	80°31'13.234"W	1869.94	31.111	8.11	8.02	-1.19
7145.00	90.030	338.410	6452.47	1371.99	1644.68	948.97	1774421.97	14583949.75	40°09'22.074"N	80°31'13.453"W	1898.82	29.985	8.20	8.19	-0.38
7192.00	91.110	338.650	6452.00	1418.56	1688.42	931.77	1774404.77	14583993.47	40°09'22.507"N	80°31'13.671"W	1928.46	28.892	2.35	2.30	0.51
7286.00	91.170	336.650	6450.13	1511.48	1775.34	896.03	1774369.05	14584080.35	40°09'23.368"N	80°31'14.126"W	1988.64	26.781	2.13	0.06	-2.13
7380.00	91.350	337.910	6448.07	1604.31	1862.02	859.74	1774332.77	14584167.00	40°09'24.226"N	80°31'14.587"W	2050.92	24.784	1.35	0.19	1.34
7474.00	91.170	337.380	6446.00	1697.23	1948.93	823.99	1774297.04	14584253.88	40°09'25.087"N	80°31'15.041"W	2115.96	22.918	0.60	-0.19	-0.56
7568.00	91.260	337.010	6444.01	1790.04	2035.57	787.57	1774260.62	14584340.48	40°09'25.945"N	80°31'15.504"W	2182.61	21.152	0.41	0.10	-0.39
7663.00	91.110	337.450	6442.04	1883.84	2123.14	750.81	1774223.88	14584428.03	40°09'26.812"N	80°31'15.972"W	2251.99	19.475	0.49	-0.16	0.46
7757.00	91.110	339.030	6440.22	1976.90	2210.43	715.97	1774189.05	14584515.28	40°09'27.677"N	80°31'16.414"W	2323.49	17.947	1.68	0.00	1.68
7851.00	90.800	337.900	6438.65	2070.02	2297.85	681.47	1774154.57	14584602.67	40°09'28.543"N	80°31'16.853"W	2396.77	16.519	1.25	-0.33	-1.20
7946.00	90.710	336.660	6437.40	2163.85	2385.47	644.78	1774117.89	14584690.25	40°09'29.410"N	80°31'17.319"W	2471.07	15.125	1.31	-0.09	-1.31

REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 205H
SOUTHWESTERN ENERGY	Well	Roy Riggle OHI 205H
Area	Wellbore	Roy Riggle OHI 205H AWB
Field		
Facility	Roy Riggle OHI Pad	

WELLPATH DATA (189 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]
8040.00	90.710	335.180	6436.24	2256.32	2471.28	606.43	1774079.56	14584776.03	40°09'30.260"N	80°31'17.807"W	2544.60	13.787	1.57	0.00	-1.57
8134.00	91.290	336.840	6434.60	2348.80	2557.14	568.22	1774041.36	14584861.86	40°09'31.111"N	80°31'18.293"W	2619.51	12.528	1.87	0.62	1.77
8229.00	91.200	338.460	6432.53	2442.71	2644.98	532.10	1774005.26	14584949.67	40°09'31.981"N	80°31'18.752"W	2697.98	11.375	1.71	-0.09	1.71
8323.00	91.260	338.170	6430.52	2535.79	2732.31	497.38	1773970.55	14585036.96	40°09'32.846"N	80°31'19.193"W	2777.21	10.317	0.31	0.06	-0.31
8417.00	91.350	336.720	6428.37	2628.65	2819.10	461.33	1773934.52	14585123.71	40°09'33.705"N	80°31'19.652"W	2856.59	9.294	1.55	0.10	-1.54
8511.00	91.200	337.690	6426.28	2721.46	2905.73	424.92	1773898.12	14585210.32	40°09'34.563"N	80°31'20.115"W	2936.64	8.320	1.04	-0.16	1.03
8605.00	91.170	337.720	6424.34	2814.40	2992.69	389.27	1773862.48	14585297.24	40°09'35.424"N	80°31'20.568"W	3017.90	7.411	0.05	-0.03	0.03
8700.00	91.200	338.230	6422.37	2908.39	3080.73	353.65	1773826.88	14585385.25	40°09'36.296"N	80°31'21.020"W	3100.97	6.549	0.54	0.03	0.54
8794.00	91.200	336.180	6420.41	3001.19	3167.37	317.24	1773790.48	14585471.85	40°09'37.154"N	80°31'21.483"W	3183.22	5.720	2.18	0.00	-2.18
8889.00	91.390	341.310	6418.26	3095.32	3255.85	282.82	1773756.07	14585560.31	40°09'38.031"N	80°31'21.921"W	3268.11	4.965	5.40	0.20	5.40
8983.00	91.230	340.660	6416.11	3188.90	3344.70	252.21	1773725.47	14585649.12	40°09'38.910"N	80°31'22.309"W	3354.20	4.312	0.71	-0.17	-0.69
9078.00	91.200	338.450	6414.09	3283.23	3433.69	219.03	1773692.31	14585738.08	40°09'39.791"N	80°31'22.730"W	3440.67	3.650	2.33	-0.03	-2.33
9172.00	91.290	338.950	6412.05	3376.39	3521.25	184.89	1773658.18	14585825.60	40°09'40.658"N	80°31'23.164"W	3526.10	3.006	0.54	0.10	0.53
9266.00	90.710	338.850	6410.41	3469.60	3608.93	151.06	1773624.36	14585913.25	40°09'41.527"N	80°31'23.593"W	3612.09	2.397	0.63	-0.62	-0.11
9361.00	90.310	338.570	6409.56	3563.78	3697.45	116.57	1773589.88	14586001.73	40°09'42.403"N	80°31'24.031"W	3699.28	1.806	0.51	-0.42	-0.29
9455.00	90.620	341.360	6408.80	3657.20	3785.75	84.37	1773557.69	14586090.00	40°09'43.278"N	80°31'24.440"W	3786.69	1.277	2.99	0.33	2.97
9549.00	90.520	341.030	6407.87	3750.83	3874.72	54.07	1773527.41	14586178.94	40°09'44.158"N	80°31'24.824"W	3875.10	0.799	0.37	-0.11	-0.35
9644.00	90.680	340.830	6406.87	3845.42	3964.51	23.03	1773496.38	14586268.69	40°09'45.047"N	80°31'25.218"W	3964.57	0.333	0.27	0.17	-0.21
9738.00	90.460	341.610	6405.94	3939.05	4053.50	-7.23	1773466.13	14586357.64	40°09'45.928"N	80°31'25.601"W	4053.50	359.898	0.86	-0.23	0.83
9833.00	90.340	340.190	6405.27	4033.63	4143.26	-38.31	1773435.06	14586447.37	40°09'46.817"N	80°31'25.995"W	4143.44	359.470	1.50	-0.13	-1.49
9927.00	90.340	338.820	6404.72	4126.98	4231.31	-71.22	1773402.16	14586535.39	40°09'47.689"N	80°31'26.413"W	4231.91	359.036	1.46	0.00	-1.46
10022.00	90.340	338.200	6404.15	4221.11	4319.70	-106.03	1773367.37	14586623.75	40°09'48.564"N	80°31'26.855"W	4321.00	358.594	0.65	0.00	-0.65
10116.00	90.340	340.010	6403.59	4314.37	4407.51	-139.55	1773333.86	14586711.53	40°09'49.434"N	80°31'27.281"W	4409.72	358.187	1.93	0.00	1.93
10210.00	90.370	338.490	6403.01	4407.67	4495.41	-172.85	1773300.57	14586799.39	40°09'50.304"N	80°31'27.704"W	4498.73	357.798	1.62	0.03	-1.62
10305.00	90.340	336.790	6402.42	4501.59	4583.27	-208.99	1773264.45	14586887.21	40°09'51.174"N	80°31'28.163"W	4588.03	357.389	1.79	-0.03	-1.79
10399.00	90.370	335.710	6401.84	4594.16	4669.30	-246.85	1773226.61	14586973.21	40°09'52.026"N	80°31'28.645"W	4675.82	356.974	1.15	0.03	-1.15
10493.00	90.310	335.280	6401.28	4686.51	4754.83	-285.83	1773187.63	14587058.71	40°09'52.874"N	80°31'29.141"W	4763.42	356.560	0.46	-0.06	-0.46
10588.00	90.400	336.450	6400.69	4779.95	4841.52	-324.68	1773148.81	14587145.37	40°09'53.732"N	80°31'29.636"W	4852.40	356.163	1.24	0.09	1.23
10682.00	90.430	337.130	6400.01	4872.67	4927.91	-361.72	1773111.78	14587231.73	40°09'54.588"N	80°31'30.107"W	4941.17	355.802	0.72	0.03	0.72
10777.00	90.220	337.390	6399.47	4966.50	5015.53	-398.44	1773075.07	14587319.31	40°09'55.456"N	80°31'30.574"W	5031.33	355.458	0.35	-0.22	0.27

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 205H
Area	Ohio County, WV	Well	Roy Riggle OHI 205H
Field	Ohio	Wellbore	Roy Riggle OHI 205H AWB
Facility	Roy Riggle OHI Pad		

WELLPATH DATA (189 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]
10871.00	90.340	339.480	6399.01	5059.62	5102.94	-432.99	1773040.53	14587406.69	40°09'56.32"N	80°31'31.013"W	5121.28	355.150	2.23	0.13	2.22
10965.00	90.400	340.740	6398.41	5153.08	5191.33	-464.97	1773008.57	14587495.04	40°09'57.196"N	80°31'31.419"W	5212.11	354.882	1.34	0.06	1.34
11060.00	90.310	339.320	6397.82	5247.51	5280.62	-497.41	1772976.13	14587584.29	40°09'58.080"N	80°31'31.830"W	5303.99	354.619	1.50	-0.09	-1.49
11154.00	90.280	336.740	6397.33	5340.54	5367.78	-532.58	1772940.98	14587671.43	40°09'58.944"N	80°31'32.277"W	5394.14	354.334	2.74	-0.03	-2.74
11248.00	90.310	335.890	6396.85	5433.13	5453.86	-570.34	1772903.24	14587757.47	40°09'59.796"N	80°31'32.758"W	5483.60	354.030	0.90	0.03	-0.90
11343.00	90.400	335.130	6396.26	5526.46	5540.31	-609.72	1772863.87	14587843.89	40°10'00.653"N	80°31'33.259"W	5573.76	353.720	0.81	0.09	-0.80
11437.00	90.400	336.890	6395.61	5618.96	5626.19	-647.93	1772825.67	14587929.73	40°10'01.503"N	80°31'33.746"W	5663.37	353.431	1.87	0.00	1.87
11532.00	90.220	342.260	6395.09	5713.28	5715.18	-681.07	1772792.55	14588018.69	40°10'02.384"N	80°31'34.166"W	5755.62	353.204	5.66	-0.19	5.65
11626.00	90.370	346.000	6394.61	5807.19	5805.58	-706.77	1772766.86	14588109.06	40°10'03.279"N	80°31'34.491"W	5848.44	353.059	3.98	0.16	3.98
11720.00	90.340	347.240	6394.03	5901.19	5897.02	-728.52	1772745.11	14588200.47	40°10'04.184"N	80°31'34.765"W	5941.86	352.957	1.32	-0.03	1.32
11814.00	90.400	344.090	6393.42	5995.17	5988.08	-751.79	1772721.85	14588291.49	40°10'05.085"N	80°31'35.059"W	6035.09	352.844	3.35	0.06	-3.35
11908.00	90.890	340.840	6392.36	6088.95	6077.70	-780.11	1772693.55	14588381.07	40°10'05.972"N	80°31'35.417"W	6127.56	352.686	3.50	0.52	-3.46
12003.00	90.120	339.210	6391.52	6183.38	6166.98	-812.56	1772661.11	14588470.32	40°10'06.856"N	80°31'35.829"W	6220.28	352.494	1.90	-0.81	-1.72
12097.00	90.400	340.790	6391.10	6276.82	6255.30	-844.71	1772628.97	14588558.61	40°10'07.731"N	80°31'36.237"W	6312.08	352.309	1.71	0.30	1.68
12192.00	90.490	341.010	6390.36	6371.40	6345.07	-875.79	1772597.90	14588648.34	40°10'08.619"N	80°31'36.631"W	6405.23	352.141	0.25	0.09	0.23
12286.00	90.120	341.630	6389.86	6465.05	6434.12	-905.90	1772567.80	14588737.36	40°10'09.501"N	80°31'37.013"W	6497.58	351.986	0.77	-0.39	0.66
12380.00	90.400	339.630	6389.43	6558.59	6522.79	-937.07	1772536.64	14588826.00	40°10'10.379"N	80°31'37.408"W	6589.76	351.825	2.15	0.30	-2.13
12475.00	90.590	337.540	6388.61	6652.73	6611.22	-971.76	1772501.97	14588914.40	40°10'11.254"N	80°31'37.849"W	6682.26	351.638	2.21	0.20	-2.20
12569.00	90.710	336.400	6387.54	6745.50	6697.73	-1008.53	1772465.21	14589000.86	40°10'12.111"N	80°31'38.317"W	6773.23	351.437	1.22	0.13	-1.21
12664.00	90.520	335.200	6386.52	6838.91	6784.37	-1047.47	1772426.29	14589087.48	40°10'12.969"N	80°31'38.813"W	6864.76	351.223	1.28	-0.20	-1.26
12758.00	90.120	334.740	6386.00	6931.10	6869.54	-1087.24	1772386.54	14589172.61	40°10'13.813"N	80°31'39.319"W	6955.05	351.006	0.65	-0.43	-0.49
12852.00	90.060	334.980	6385.85	7023.24	6954.64	-1127.17	1772346.62	14589257.68	40°10'14.656"N	80°31'39.828"W	7045.39	350.794	0.26	-0.06	0.26
12947.00	90.250	336.810	6385.59	7116.69	7041.35	-1165.97	1772307.83	14589344.35	40°10'15.515"N	80°31'40.321"W	7137.23	350.598	1.94	0.20	1.93
13041.00	90.280	337.650	6385.16	7209.53	7128.02	-1202.35	1772271.47	14589430.99	40°10'16.373"N	80°31'40.784"W	7228.71	350.426	0.89	0.03	0.89
13136.00	90.220	337.640	6384.74	7303.46	7215.88	-1238.48	1772235.35	14589518.82	40°10'17.244"N	80°31'41.244"W	7321.39	350.261	0.06	-0.06	-0.01
13230.00	90.180	342.110	6384.42	7396.85	7304.12	-1270.82	1772203.03	14589607.02	40°10'18.117"N	80°31'41.654"W	7413.85	350.130	4.76	-0.04	4.76
13325.00	89.970	344.280	6384.29	7491.71	7395.06	-1298.28	1772175.57	14589697.93	40°10'19.017"N	80°31'42.002"W	7508.15	350.043	2.29	-0.22	2.28
13419.00	90.150	343.170	6384.19	7585.62	7485.29	-1324.62	1772149.24	14589788.12	40°10'19.910"N	80°31'42.335"W	7601.59	349.965	1.20	0.19	-1.18
13513.00	89.940	341.090	6384.12	7679.37	7574.75	-1353.47	1772120.41	14589877.55	40°10'20.796"N	80°31'42.700"W	7694.72	349.869	2.22	-0.22	-2.21
13608.00	89.940	338.000	6384.22	7773.71	7663.75	-1386.66	1772087.23	14589966.52	40°10'21.677"N	80°31'43.122"W	7788.19	349.744	3.25	0.00	-3.25

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 205H
Area	Ohio County, WV	Well	Roy Riggle OHI 205H
Field	Ohio	Wellbore	Roy Riggle OHI 205H AWB
Facility	Roy Riggle OHI Pad		

WELLPATH DATA (189 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]
13702.00	90.000	336.240	6384.27	7866.51	7750.35	-1423.21	1772050.69	14590053.08	40°10'22.535"N	80°31'43.587"W	7879.94	349.595	1.87	0.06	-1.87
13797.00	89.910	336.660	6384.34	7960.13	7837.43	-1461.17	1772012.75	14590140.14	40°10'23.397"N	80°31'44.070"W	7972.48	349.439	0.45	-0.09	0.44
13891.00	90.000	336.480	6384.42	8052.79	7923.68	-1498.54	1771975.39	14590226.35	40°10'24.252"N	80°31'44.545"W	8064.14	349.291	0.21	0.10	-0.19
13985.00	89.780	337.120	6384.60	8145.51	8010.08	-1535.57	1771938.37	14590312.72	40°10'25.107"N	80°31'45.016"W	8155.94	349.148	0.72	-0.23	0.68
14079.00	89.940	336.550	6384.83	8238.25	8096.50	-1572.55	1771901.41	14590399.11	40°10'25.963"N	80°31'45.487"W	8247.80	349.009	0.63	0.17	-0.61
14174.00	89.880	337.250	6384.98	8331.98	8183.88	-1609.82	1771864.15	14590486.46	40°10'26.829"N	80°31'45.961"W	8340.71	348.872	0.74	-0.06	0.74
14268.00	89.910	337.890	6385.15	8424.91	8270.77	-1645.69	1771828.30	14590573.31	40°10'27.689"N	80°31'46.417"W	8432.91	348.746	0.68	0.03	0.68
14362.00	89.880	338.180	6385.32	8517.94	8357.95	-1680.85	1771793.15	14590660.45	40°10'28.553"N	80°31'46.864"W	8525.29	348.629	0.31	-0.03	0.31
14456.00	89.940	338.490	6385.47	8611.05	8445.31	-1715.55	1771758.46	14590747.78	40°10'29.418"N	80°31'47.305"W	8617.79	348.517	0.34	0.06	0.33
14551.00	90.460	339.270	6385.14	8705.26	8533.93	-1749.78	1771724.25	14590836.36	40°10'30.295"N	80°31'47.740"W	8711.46	348.413	0.99	0.55	0.82
14645.00	90.950	338.960	6383.98	8798.52	8621.74	-1783.29	1771690.75	14590924.15	40°10'31.165"N	80°31'48.166"W	8804.24	348.314	0.62	0.52	-0.33
14738.00	91.020	339.370	6382.38	8890.80	8708.65	-1816.36	1771657.69	14591011.02	40°10'32.025"N	80°31'48.586"W	8896.05	348.219	0.45	0.08	0.44
14832.00	90.950	338.650	6380.77	8984.04	8796.40	-1850.03	1771624.04	14591098.73	40°10'32.894"N	80°31'49.014"W	8988.84	348.123	0.77	-0.07	-0.77
14927.00	91.020	337.890	6379.13	9078.10	8884.63	-1885.19	1771588.88	14591186.94	40°10'33.768"N	80°31'49.461"W	9082.44	348.020	0.80	0.07	-0.80
15021.00	90.950	337.900	6377.52	9171.09	8971.71	-1920.56	1771553.53	14591273.98	40°10'34.630"N	80°31'49.910"W	9174.97	347.917	0.80	-0.07	0.01
15116.00	90.920	339.280	6375.97	9265.23	9060.14	-1955.23	1771518.87	14591362.38	40°10'35.506"N	80°31'50.351"W	9268.72	347.822	1.45	-0.03	1.45
15210.00	90.920	339.120	6374.46	9358.50	9148.00	-1988.61	1771485.51	14591450.21	40°10'36.376"N	80°31'50.775"W	9361.65	347.736	0.17	0.00	-0.17
15304.00	90.740	339.960	6373.10	9451.85	9236.06	-2021.46	1771452.67	14591538.23	40°10'37.248"N	80°31'51.192"W	9454.69	347.655	0.91	-0.19	0.89
15399.00	90.580	339.820	6372.00	9546.26	9325.27	-2054.13	1771420.02	14591627.40	40°10'38.131"N	80°31'51.607"W	9548.82	347.578	0.22	-0.17	-0.15
15493.00	90.550	340.390	6371.07	9639.71	9413.65	-2086.11	1771388.04	14591715.75	40°10'39.006"N	80°31'52.013"W	9642.03	347.505	0.61	-0.03	0.61
15587.00	90.650	339.620	6370.09	9733.15	9501.98	-2118.25	1771355.92	14591804.05	40°10'39.881"N	80°31'52.421"W	9735.22	347.433	0.83	0.11	-0.82
15682.00	90.580	339.620	6369.07	9827.51	9591.03	-2151.33	1771322.85	14591893.06	40°10'40.762"N	80°31'52.841"W	9829.35	347.357	0.07	-0.07	0.00
15777.00	90.990	339.640	6367.77	9921.87	9680.08	-2184.40	1771289.79	14591982.08	40°10'41.644"N	80°31'53.261"W	9923.48	347.284	0.43	0.43	0.02
15871.00	91.260	341.300	6365.92	10015.37	9768.65	-2215.82	1771258.39	14592070.61	40°10'42.521"N	80°31'53.660"W	10016.80	347.220	1.79	0.29	1.77
15965.00	91.080	341.960	6364.00	10109.04	9857.84	-2245.43	1771228.78	14592159.77	40°10'43.404"N	80°31'54.035"W	10110.34	347.168	0.73	-0.19	0.70
16060.00	90.980	343.100	6362.30	10203.83	9948.44	-2273.95	1771200.28	14592250.34	40°10'44.301"N	80°31'54.397"W	10205.01	347.125	1.20	-0.11	1.20
16154.00	91.170	342.010	6360.53	10297.61	10038.10	-2302.12	1771172.12	14592339.96	40°10'45.188"N	80°31'54.753"W	10298.70	347.083	1.18	0.20	-1.16
16248.00	91.260	341.370	6358.54	10391.29	10127.32	-2331.65	1771142.60	14592429.15	40°10'46.071"N	80°31'55.128"W	10392.27	347.035	0.69	0.10	-0.68
16343.00	91.260	340.740	6356.45	10485.88	10217.15	-2362.48	1771111.78	14592518.95	40°10'46.961"N	80°31'55.519"W	10486.73	346.980	0.66	0.00	-0.66
16437.00	91.320	340.160	6354.33	10579.37	10305.71	-2393.93	1771080.34	14592607.47	40°10'47.837"N	80°31'55.918"W	10580.10	346.923	0.62	0.06	-0.62

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 205H
Area	Ohio County, WV	Well	Roy Riggle OHI 205H
Field	Ohio	Wellbore	Roy Riggle OHI 205H AWB
Facility	Roy Riggle OHI Pad		

WELLPATH DATA (189 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]
16531.00	91.510	338.750	6352.01	10672.68	10393.70	-2426.91	1771047.38	14592695.43	40°10'48.709"N	80°31'56.337"W	10673.28	346.857	1.51	0.20	-1.50
16625.00	91.390	338.380	6349.63	10765.81	10481.17	-2461.25	1771013.05	14592782.87	40°10'49.575"N	80°31'56.773"W	10766.28	346.785	0.41	-0.13	-0.39
16720.00	91.410	337.260	6347.31	10859.75	10569.12	-2497.10	1770977.21	14592870.78	40°10'50.446"N	80°31'57.229"W	10860.10	346.707	1.18	0.02	-1.18
16814.00	91.380	336.820	6345.02	10952.51	10655.64	-2533.76	1770940.57	14592957.27	40°10'51.303"N	80°31'57.696"W	10952.75	346.624	0.47	-0.03	-0.47
16908.00	91.170	337.020	6342.93	11045.25	10742.10	-2570.60	1770903.74	14593043.69	40°10'52.159"N	80°31'58.165"W	11045.39	346.542	0.31	-0.22	0.21
17002.00	91.350	336.420	6340.87	11137.93	10828.42	-2607.74	1770866.61	14593129.98	40°10'53.014"N	80°31'58.637"W	11138.00	346.460	0.67	0.19	-0.64
17097.00	91.380	337.440	6338.60	11231.64	10915.80	-2644.95	1770829.41	14593217.33	40°10'53.879"N	80°31'59.111"W	11231.67	346.379	1.07	0.03	1.07
17191.00	91.320	338.910	6336.39	11324.68	11003.04	-2679.89	1770794.49	14593304.53	40°10'54.743"N	80°31'59.555"W	11324.69	346.312	1.56	-0.06	1.56
17232.00	91.320	338.910	6335.44	11365.34	11041.28	-2694.64	1770779.75	14593342.76	40°10'55.122"N	80°31'59.742"W	11365.34	346.285	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Roy Riggle OHI 205H AWB Ref Wellpath: Roy Riggle OHI 205H AWP Proj: 17232'

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	0.01	-0.13
17.5in Open Hole	100.00	682.00	582.00	100.00	681.96	0.01	-0.13	0.40	-6.87
13.375in Casing Surface	26.00	682.00	656.00	26.00	681.96	0.00	0.00	0.40	-6.87
12.25in Open Hole	682.00	2073.00	1391.00	681.96	2071.26	0.40	-6.87	11.51	19.21
9.625in Casing Intermediate	26.00	2073.00	2047.00	26.00	2071.26	0.00	0.00	11.51	19.21
8.75in Open Hole	2073.00	6000.00	3927.00	2071.26	5743.33	11.51	19.21	917.40	991.14
8.5in Open Hole	6000.00	17232.00	11232.00	5743.33	6335.44	917.40	991.14	11041.28	-2694.64
5.5in Casing Production	26.00	17232.00	17206.00	26.00	6335.44	0.00	0.00	11041.28	-2694.64

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 205H
Area	Ohio County, WV	Well	Roy Riggle OHI 205H
Field	Ohio	Wellbore	Roy Riggle OHI 205H AWB
Facility	Roy Riggle OHI Pad		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Roy Riggle OHI 205H BHL Rev2	6352.00	11039.61	-2701.87	1770772.52	14593341.09	40°10'55.106"N	80°31'59.836"W	point
Roy Riggle OHI 205H LP Rev3	6449.59	1590.12	947.03	1774420.03	14583895.21	40°09'21.535"N	80°31'13.482"W	point
Roy Riggle East Unit LL1	6999.50	2935.67	1305.25	1774778.11	14585240.24	40°09'34.812"N	80°31'08.774"W	polygon
Roy Riggle Unit Hardlines	6999.50	7005.63	-1706.04	1771767.97	14589308.65	40°10'15.190"N	80°31'47.281"W	polygon
Roy Riggle Unit LL1	6999.50	808.10	-1644.82	1771829.17	14583113.49	40°09'13.944"N	80°31'46.915"W	polygon

WELLPATH COMPOSITION - Ref Wellbore: Roy Riggle OHI 205H AWB Ref Wellpath: Roy Riggle OHI 205H AWP Proj: 17232'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	624.00	OWSG MWD rev2 + HRGM	01 Premier MWD <17 1/2"> (151'-624')	Roy Riggle OHI 205H AWB
624.00	2021.00	OWSG MWD rev2 + HRGM	02 Premier MWD <12 1/4"> (705'-2021')	Roy Riggle OHI 205H AWB
2021.00	5929.85	OWSG MWD rev2 + HRGM	03 Premier MWD <8 3/4"> (2128'-5929.85')	Roy Riggle OHI 205H AWB
5929.85	17191.00	BHI AutoTrak Curve (Short)	04 BH AT Curve <8 1/2"> (5965'-17191')	Roy Riggle OHI 205H AWB
17191.00	17232.00	Blind Drilling (std)	Projection to bit	Roy Riggle OHI 205H AWB

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 205H
Area	Ohio County, WV	Well	Roy Riggle OHI 205H
Field	Ohio	Wellbore	Roy Riggle OHI 205H AWB
Facility	Roy Riggle OHI Pad		

COMMENTS

Wellpath general comments
 API: 47-069-00296-0000
 BH Job #109740766
 Rig: SDC 42
 Duration: 5/1/2019 - 5/5/2019
 Premier MWD <17 1/2"> (151'-624')
 Premier MWD <12 1/4"> (705'-2021')
 Premier MWD <8 3/4"> (2128'-5929.85')
 BH AT Curve <8 1/2"> (5965'-17191')
 Projected MD at TD: 17,232'