

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 201H
Area	Ohio County, WV	Well	Dallas Hall OHI 201H
Field	Ohio	Wellbore	Dallas Hall OHI 201H AWB
Facility	Dallas Hall OHI Pad		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 5.1
North Reference	Grid	User	Atenjen
Scale	0.999613	Report Generated	21/Nov/2018 at 08:59
Convergence at slot	0.25° East	Database/Source file	WA_MPL_EASTERNUS_Defn/Dallas_Hall_OHI_201H_AWP_Proj_11904_.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-9.07	-3.45	1748598.37	14575530.37	40°08'00.087"N	80°36'46.633"W
Facility Reference Pt			1748601.82	14575539.43	40°08'00.176"N	80°36'46.588"W
Field Reference Pt			0.00	0.00	0°00'00.000"	85°29'19.478"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 41 (KB) to Facility Vertical Datum	1300.00ft
Horizontal Reference Pt	Slot	SDC 41 (KB) to Mean Sea Level	1300.00ft
Vertical Reference Pt	SDC 41 (KB)	SDC 41 (KB) to Ground Level at Slot (Slot 201H)	26.00ft
MD Reference Pt	SDC 41 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	322.63°

Actual Wellpath Report

Dallas Hall OHI 201H AWP Proj:11904'

Page 2 of 9

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WELLPATH DATA (151 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	12.320	0.00	0.00	0.00	0.00	1748598.37	14575530.37	40°08'00.087"N	80°36'46.633"W	0.00	0.000	0.00	0.00	0.00
26.00	0.000	12.320	26.00	0.00	0.00	0.00	1748598.37	14575530.37	40°08'00.087"N	80°36'46.633"W	0.00	0.000	0.00	0.00	0.00
50.00	0.610	12.320	50.00	0.08	0.12	0.03	1748598.40	14575530.49	40°08'00.088"N	80°36'46.633"W	0.13	12.320	2.54	2.54	51.33
100.00	0.730	23.950	100.00	0.41	0.68	0.21	1748598.58	14575531.05	40°08'00.093"N	80°36'46.630"W	0.71	17.517	0.36	0.24	23.26
150.00	0.610	21.150	149.99	0.70	1.22	0.44	1748598.81	14575531.58	40°08'00.099"N	80°36'46.627"W	1.29	19.848	0.25	-0.24	-5.60
200.00	0.420	36.850	199.99	0.89	1.61	0.64	1748599.01	14575531.98	40°08'00.102"N	80°36'46.624"W	1.73	21.819	0.47	-0.38	31.40
250.00	0.400	49.380	249.99	0.95	1.87	0.89	1748599.26	14575532.24	40°08'00.105"N	80°36'46.621"W	2.07	25.372	0.18	-0.04	25.06
300.00	0.410	55.910	299.99	0.95	2.08	1.17	1748599.54	14575532.45	40°08'00.107"N	80°36'46.618"W	2.39	29.258	0.09	0.02	13.06
350.00	0.400	72.700	349.99	0.88	2.24	1.48	1748599.85	14575532.61	40°08'00.109"N	80°36'46.614"W	2.68	33.538	0.24	-0.02	33.58
400.00	0.070	75.580	399.99	0.81	2.30	1.68	1748600.05	14575532.67	40°08'00.109"N	80°36'46.611"W	2.84	36.171	0.66	-0.66	5.76
469.00	0.130	106.010	468.99	0.73	2.28	1.79	1748600.16	14575532.65	40°08'00.109"N	80°36'46.610"W	2.91	38.148	0.11	0.09	44.10
500.00	0.490	69.600	499.99	0.66	2.32	1.95	1748600.32	14575532.69	40°08'00.109"N	80°36'46.608"W	3.03	40.070	1.27	1.16	-117.45
531.00	0.370	43.640	530.99	0.64	2.44	2.15	1748600.52	14575532.81	40°08'00.111"N	80°36'46.605"W	3.25	41.332	0.73	-0.39	-83.74
560.00	0.620	320.380	559.98	0.81	2.63	2.11	1748600.48	14575533.00	40°08'00.112"N	80°36'46.606"W	3.37	38.762	2.36	0.86	-287.10
590.00	1.910	297.990	589.98	1.42	2.99	1.57	1748599.94	14575533.36	40°08'00.116"N	80°36'46.613"W	3.37	27.651	4.52	4.30	-74.63
620.00	3.230	297.650	619.95	2.65	3.62	0.38	1748598.75	14575533.98	40°08'00.122"N	80°36'46.628"W	3.63	5.929	4.40	4.40	-1.13
681.00	6.300	285.850	680.73	6.88	5.33	-4.37	1748594.00	14575535.70	40°08'00.139"N	80°36'46.689"W	6.89	320.653	5.26	5.03	-19.34
772.00	10.050	281.450	770.79	16.86	8.27	-16.96	1748581.42	14575538.63	40°08'00.169"N	80°36'46.851"W	18.87	295.993	4.17	4.12	-4.84
883.00	13.170	274.550	879.51	32.61	11.19	-39.06	1748559.32	14575541.56	40°08'00.199"N	80°36'47.135"W	40.63	285.992	3.07	2.81	-6.22
974.00	13.160	270.800	968.12	45.93	12.16	-59.75	1748538.64	14575542.53	40°08'00.209"N	80°36'47.402"W	60.98	281.504	0.94	-0.01	-4.12
1063.00	13.330	266.530	1054.75	57.92	11.68	-80.13	1748518.27	14575542.05	40°08'00.205"N	80°36'47.664"W	80.97	278.295	1.12	0.19	-4.80
1154.00	12.790	266.920	1143.40	69.44	10.51	-100.66	1748497.75	14575540.87	40°08'00.195"N	80°36'47.928"W	101.20	275.959	0.60	-0.59	0.43
1245.00	10.720	269.430	1232.49	80.19	9.88	-119.18	1748479.24	14575540.25	40°08'00.189"N	80°36'48.167"W	119.59	274.739	2.34	-2.27	2.76
1338.00	11.720	268.700	1323.71	90.93	9.58	-137.27	1748461.15	14575539.95	40°08'00.187"N	80°36'48.400"W	137.61	273.992	1.09	1.08	-0.78
1431.00	11.220	271.330	1414.85	102.15	9.58	-155.76	1748442.67	14575539.94	40°08'00.188"N	80°36'48.638"W	156.05	273.518	0.78	-0.54	2.83
1524.00	9.870	272.250	1506.28	112.89	10.10	-172.77	1748425.67	14575540.47	40°08'00.194"N	80°36'48.857"W	173.07	273.345	1.46	-1.45	0.99
1616.00	11.640	271.260	1596.66	123.71	10.61	-189.93	1748408.51	14575540.98	40°08'00.200"N	80°36'49.078"W	190.23	273.198	1.93	1.92	-1.08
1709.00	11.290	267.070	1687.81	134.72	10.35	-208.40	1748390.05	14575540.72	40°08'00.198"N	80°36'49.315"W	208.66	272.844	0.97	-0.38	-4.51
1802.00	11.720	263.170	1778.94	144.67	8.77	-226.87	1748371.59	14575539.13	40°08'00.183"N	80°36'49.553"W	227.04	272.212	0.96	0.46	-4.19
1873.00	13.140	260.860	1848.27	152.15	6.63	-242.00	1748356.46	14575536.99	40°08'00.162"N	80°36'49.748"W	242.09	271.568	2.12	2.00	-3.25

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Facility		

WELLPATH DATA (151 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]
1958.00	14.560	258.370	1930.80	161.36	2.94	-262.01	1748336.47	14575533.31	40°08'00.127"N	80°36'50.006"W	262.02	270.642	1.81	1.67	-2.93
2004.00	15.010	257.460	1975.28	166.37	0.48	-273.48	1748324.99	14575530.85	40°08'00.103"N	80°36'50.154"W	273.48	270.100	1.10	0.98	-1.98
2097.00	15.720	255.600	2064.95	176.35	-5.27	-297.44	1748301.04	14575525.10	40°08'00.047"N	80°36'50.463"W	297.49	268.985	0.93	0.76	-2.00
2190.00	16.620	253.800	2154.27	186.07	-12.11	-322.42	1748276.08	14575518.26	40°07'59.981"N	80°36'50.785"W	322.65	267.848	1.11	0.97	-1.94
2283.00	17.170	261.340	2243.27	197.47	-17.89	-348.76	1748249.74	14575512.48	40°07'59.925"N	80°36'51.124"W	349.22	267.063	2.43	0.59	8.11
2375.00	17.970	262.050	2330.98	210.96	-21.90	-376.24	1748222.27	14575508.48	40°07'59.886"N	80°36'51.478"W	376.88	266.669	0.90	0.87	0.77
2468.00	18.770	259.830	2419.24	224.85	-26.53	-405.18	1748193.35	14575503.85	40°07'59.842"N	80°36'51.851"W	406.05	266.254	1.14	0.86	-2.39
2561.00	19.680	257.930	2507.05	238.38	-32.44	-435.22	1748163.32	14575497.94	40°07'59.785"N	80°36'52.238"W	436.43	265.737	1.19	0.98	-2.04
2654.00	20.470	256.660	2594.40	251.69	-39.47	-466.36	1748132.19	14575490.92	40°07'59.717"N	80°36'52.639"W	468.03	265.162	0.97	0.85	-1.37
2747.00	21.380	253.140	2681.27	264.26	-48.14	-498.41	1748100.16	14575482.25	40°07'59.632"N	80°36'53.052"W	500.73	264.483	1.67	0.98	-3.78
2839.00	20.510	259.120	2767.20	277.32	-56.05	-530.29	1748068.29	14575474.35	40°07'59.555"N	80°36'53.463"W	533.24	263.967	2.51	-0.95	6.50
2932.00	20.530	258.430	2854.30	291.69	-62.39	-562.26	1748036.32	14575468.00	40°07'59.494"N	80°36'53.875"W	565.71	263.668	0.26	0.02	-0.74
3025.00	21.050	255.150	2941.25	305.18	-69.94	-594.39	1748004.22	14575460.45	40°07'59.421"N	80°36'54.289"W	598.49	263.289	1.37	0.56	-3.53
3118.00	22.000	258.780	3027.76	319.26	-77.61	-627.62	1747971.00	14575452.79	40°07'59.347"N	80°36'54.718"W	632.40	262.950	1.76	1.02	3.90
3210.00	22.100	258.410	3113.03	334.38	-84.44	-661.47	1747937.15	14575445.96	40°07'59.280"N	80°36'55.154"W	666.84	262.725	0.19	0.11	-0.40
3303.00	24.640	257.210	3198.40	350.05	-92.25	-697.52	1747901.12	14575438.15	40°07'59.205"N	80°36'55.618"W	703.60	262.466	2.78	2.73	-1.29
3396.00	25.640	256.010	3282.59	366.10	-101.41	-735.95	1747862.70	14575429.00	40°07'59.116"N	80°36'56.114"W	742.91	262.155	1.21	1.08	-1.29
3489.00	25.530	253.880	3366.47	381.35	-111.84	-774.73	1747823.94	14575418.58	40°07'59.015"N	80°36'56.613"W	782.76	261.786	1.00	-0.12	-2.29
3581.00	25.170	257.890	3449.62	396.89	-121.45	-812.91	1747785.78	14575408.97	40°07'58.921"N	80°36'57.106"W	821.93	261.503	1.91	-0.39	4.36
3674.00	25.100	257.190	3533.81	413.52	-129.97	-851.48	1747747.22	14575400.45	40°07'58.839"N	80°36'57.603"W	861.34	261.321	0.33	-0.08	-0.75
3767.00	24.740	254.770	3618.16	429.06	-139.45	-889.49	1747709.22	14575390.97	40°07'58.747"N	80°36'58.093"W	900.36	261.090	1.16	-0.39	-2.60
3860.00	24.910	258.570	3702.57	444.96	-148.45	-927.47	1747671.26	14575381.98	40°07'58.659"N	80°36'58.582"W	939.27	260.907	1.72	0.18	4.09
3953.00	24.570	257.350	3787.03	461.61	-156.56	-965.53	1747633.21	14575373.87	40°07'58.581"N	80°36'59.072"W	978.14	260.789	0.66	-0.37	-1.31
4045.00	25.760	256.470	3870.30	477.69	-165.43	-1003.63	1747595.13	14575365.00	40°07'58.495"N	80°36'59.563"W	1017.18	260.640	1.36	1.29	-0.96
4138.00	25.450	253.350	3954.17	492.93	-175.88	-1042.43	1747556.35	14575354.55	40°07'58.393"N	80°37'00.063"W	1057.16	260.423	1.49	-0.33	-3.35
4231.00	25.390	257.030	4038.17	508.24	-186.09	-1081.00	1747517.79	14575344.36	40°07'58.294"N	80°37'00.561"W	1096.90	260.233	1.70	-0.06	3.96
4324.00	24.650	256.030	4122.44	524.18	-195.24	-1119.26	1747479.55	14575335.20	40°07'58.205"N	80°37'01.054"W	1136.16	260.105	0.92	-0.80	-1.08
4417.00	25.510	256.570	4206.67	540.01	-204.58	-1157.55	1747441.27	14575325.87	40°07'58.114"N	80°37'01.547"W	1175.49	259.978	0.96	0.92	0.58
4509.00	25.180	255.220	4289.82	555.56	-214.17	-1195.75	1747403.09	14575316.28	40°07'58.021"N	80°37'02.040"W	1214.78	259.845	0.72	-0.36	-1.47
4601.00	24.520	252.310	4373.30	569.51	-224.96	-1232.86	1747365.99	14575305.49	40°07'57.916"N	80°37'02.518"W	1253.22	259.659	1.51	-0.72	-3.16

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Facility	Dallas Hall OHI Pad		

WELLPATH DATA (151 stations)

MD	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]
4694.00	25.500	254.930	4457.59	583.61	-236.03	-1270.58	1747328.28	14575294.43	40°07'57.808"N	80°37'03.004"W	1292.32	259.476	1.59	1.05	2.82
4787.00	25.520	255.300	4541.52	598.92	-246.32	-1309.29	1747289.59	14575284.14	40°07'57.708"N	80°37'03.503"W	1332.26	259.345	0.17	0.02	0.40
4879.00	24.970	254.450	4624.73	613.78	-256.56	-1347.16	1747251.73	14575273.91	40°07'57.609"N	80°37'03.991"W	1371.38	259.218	0.72	-0.60	-0.92
4972.00	25.430	256.710	4708.88	629.22	-266.41	-1385.51	1747213.40	14575264.06	40°07'57.513"N	80°37'04.486"W	1410.89	259.116	1.15	0.49	2.43
5065.00	25.250	255.940	4792.94	645.22	-275.82	-1424.18	1747174.74	14575254.66	40°07'57.422"N	80°37'04.984"W	1450.65	259.039	0.40	-0.19	-0.83
5157.00	25.470	257.690	4876.07	661.36	-284.80	-1462.55	1747136.39	14575245.68	40°07'57.335"N	80°37'05.478"W	1490.02	258.981	0.85	0.24	1.90
5250.00	25.160	255.840	4960.14	677.63	-293.90	-1501.25	1747097.70	14575236.58	40°07'57.246"N	80°37'05.977"W	1529.75	258.923	0.91	-0.33	-1.99
5343.00	24.540	253.700	5044.53	692.36	-304.16	-1538.96	1747060.01	14575226.33	40°07'57.147"N	80°37'06.463"W	1568.73	258.820	1.17	-0.67	-2.30
5436.00	24.980	256.160	5128.98	707.14	-314.28	-1576.56	1747022.42	14575216.21	40°07'57.048"N	80°37'06.948"W	1607.58	258.726	1.20	0.47	2.65
5529.00	26.290	258.060	5212.83	723.83	-323.24	-1615.78	1746983.22	14575207.26	40°07'56.961"N	80°37'07.453"W	1647.80	258.687	1.66	1.41	2.04
5621.00	25.220	255.290	5295.69	740.13	-332.43	-1654.68	1746944.34	14575198.07	40°07'56.872"N	80°37'07.955"W	1687.74	258.640	1.75	-1.16	-3.01
5714.00	25.470	256.340	5379.74	755.80	-342.18	-1693.27	1746905.76	14575188.32	40°07'56.777"N	80°37'08.452"W	1727.50	258.575	0.55	0.27	1.13
5807.00	26.810	257.930	5463.23	772.81	-351.29	-1733.21	1746865.83	14575179.21	40°07'56.689"N	80°37'08.967"W	1768.46	258.542	1.63	1.44	1.71
5900.00	26.080	255.930	5546.50	789.86	-360.65	-1773.55	1746825.50	14575169.86	40°07'56.598"N	80°37'09.487"W	1809.85	258.506	1.24	-0.78	-2.15
5948.00	25.330	254.500	5589.75	797.86	-365.96	-1793.68	1746805.38	14575164.56	40°07'56.547"N	80°37'09.746"W	1830.64	258.468	2.03	-1.56	-2.98
5968.00	25.080	254.370	5607.84	801.02	-368.24	-1801.89	1746797.18	14575162.27	40°07'56.524"N	80°37'09.852"W	1839.13	258.450	1.28	-1.25	-0.65
6013.00	23.250	255.500	5648.90	808.01	-373.04	-1819.67	1746779.40	14575157.48	40°07'56.478"N	80°37'10.081"W	1857.52	258.415	4.19	-4.07	2.51
6059.00	24.650	262.330	5690.95	816.29	-376.59	-1837.98	1746761.11	14575153.93	40°07'56.444"N	80°37'10.317"W	1876.16	258.421	6.75	3.04	14.85
6105.00	28.040	269.490	5732.17	827.53	-377.97	-1858.30	1746740.79	14575152.55	40°07'56.431"N	80°37'10.579"W	1896.35	258.503	10.09	7.37	15.57
6151.00	31.450	275.810	5772.12	842.24	-376.85	-1881.07	1746718.03	14575153.67	40°07'56.443"N	80°37'10.872"W	1918.44	258.671	10.06	7.41	13.74
6198.00	34.550	281.230	5811.54	860.63	-373.01	-1906.35	1746692.76	14575157.50	40°07'56.482"N	80°37'11.197"W	1942.50	258.929	9.10	6.60	11.53
6244.00	38.430	285.130	5848.52	881.77	-366.74	-1932.96	1746666.16	14575163.78	40°07'56.545"N	80°37'11.539"W	1967.44	259.257	9.82	8.43	8.48
6291.00	42.780	289.650	5884.20	906.77	-357.55	-1962.11	1746637.02	14575172.96	40°07'56.637"N	80°37'11.914"W	1994.42	259.672	11.17	9.26	9.62
6337.00	46.740	294.220	5916.86	934.62	-345.42	-1992.12	1746607.03	14575185.09	40°07'56.758"N	80°37'12.300"W	2021.84	260.163	11.09	8.61	9.93
6383.00	51.040	298.410	5947.11	965.69	-330.02	-2023.14	1746576.01	14575200.47	40°07'56.911"N	80°37'12.698"W	2049.89	260.735	11.59	9.35	9.11
6428.00	54.850	301.540	5974.23	998.82	-312.07	-2054.23	1746544.94	14575218.42	40°07'57.090"N	80°37'13.097"W	2077.80	261.362	10.12	8.47	6.96
6475.00	59.030	304.820	5999.86	1035.96	-290.50	-2087.17	1746512.01	14575239.99	40°07'57.305"N	80°37'13.520"W	2107.29	262.076	10.64	8.89	6.98
6521.00	61.160	306.760	6022.80	1074.12	-267.18	-2119.51	1746479.69	14575263.30	40°07'57.537"N	80°37'13.935"W	2136.28	262.815	5.90	4.63	4.22
6567.00	64.760	309.210	6043.71	1113.76	-241.95	-2151.78	1746447.43	14575288.51	40°07'57.787"N	80°37'14.350"W	2165.34	263.584	9.15	7.83	5.33
6614.00	69.700	311.560	6061.90	1156.09	-213.87	-2184.77	1746414.45	14575316.58	40°07'58.066"N	80°37'14.773"W	2195.21	264.409	11.48	10.51	5.00

REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 201H
SOUTHWESTERN ENERGY	Well	Dallas Hall OHI 201H
Area	Wellbore	Dallas Hall OHI 201H AWB
Field		
Facility		

WELLPATH DATA (151 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]
6660.00	74.300	314.710	6076.11	1199.23	-183.96	-2216.67	1746382.56	14575346.48	40°07'58.363"N	80°37'15.182"W	2224.29	265.256	11.93	10.00	6.85
6707.00	76.770	317.720	6087.85	1244.44	-151.11	-2248.15	1746351.10	14575379.32	40°07'58.689"N	80°37'15.585"W	2253.22	266.155	8.13	5.26	6.40
6753.00	80.860	320.820	6096.78	1289.48	-116.92	-2277.58	1746321.68	14575413.50	40°07'59.028"N	80°37'15.962"W	2280.58	267.061	11.08	8.89	6.74
6799.00	85.440	324.170	6102.26	1335.13	-80.70	-2305.37	1746293.90	14575449.70	40°07'59.387"N	80°37'16.318"W	2306.78	267.995	12.30	9.96	7.28
6846.00	88.710	325.680	6104.66	1382.02	-42.29	-2332.33	1746266.94	14575488.10	40°07'59.768"N	80°37'16.663"W	2332.72	268.961	7.66	6.96	3.21
6892.00	90.650	328.510	6104.92	1427.88	-3.68	-2357.32	1746241.97	14575526.69	40°08'00.151"N	80°37'16.983"W	2357.32	269.911	7.46	4.22	6.15
6985.00	90.090	331.880	6104.32	1520.05	77.01	-2403.54	1746195.77	14575607.35	40°08'00.950"N	80°37'17.573"W	2404.77	271.835	3.67	-0.60	3.62
7077.00	90.000	330.050	6104.25	1611.07	157.44	-2448.19	1746151.13	14575687.75	40°08'01.747"N	80°37'18.144"W	2453.24	273.680	1.99	-0.10	-1.99
7170.00	90.950	334.250	6103.47	1702.77	239.65	-2491.62	1746107.72	14575769.92	40°08'02.561"N	80°37'18.698"W	2503.12	275.494	4.63	1.02	4.52
7263.00	90.920	333.710	6101.96	1793.94	323.21	-2532.41	1746066.94	14575853.45	40°08'03.388"N	80°37'19.219"W	2552.96	277.273	0.58	-0.03	-0.58
7355.00	91.050	334.460	6100.37	1884.09	405.95	-2572.61	1746026.76	14575936.16	40°08'04.207"N	80°37'19.732"W	2604.45	278.967	0.83	0.14	0.82
7448.00	90.370	334.400	6099.22	1975.12	489.83	-2612.75	1745986.63	14576020.01	40°08'05.038"N	80°37'20.244"W	2658.27	280.618	0.73	-0.73	-0.06
7541.00	90.400	335.800	6098.60	2065.92	574.18	-2651.91	1745947.50	14576104.33	40°08'05.873"N	80°37'20.744"W	2713.35	282.217	1.51	0.03	1.51
7634.00	89.820	339.720	6098.42	2155.68	660.25	-2687.10	1745912.32	14576190.36	40°08'06.725"N	80°37'21.192"W	2767.02	283.805	4.26	-0.62	4.22
7727.00	89.970	344.270	6098.59	2243.39	748.67	-2715.84	1745883.59	14576278.75	40°08'07.600"N	80°37'21.557"W	2817.14	285.412	4.90	0.16	4.89
7819.00	90.000	343.920	6098.61	2329.01	837.15	-2741.05	1745858.39	14576367.19	40°08'08.476"N	80°37'21.877"W	2866.04	286.983	0.38	0.03	-0.38
7911.00	89.820	346.970	6098.76	2413.80	926.18	-2764.17	1745835.28	14576456.19	40°08'09.357"N	80°37'22.170"W	2915.21	288.524	3.32	-0.20	3.32
8003.00	89.910	348.760	6098.97	2497.02	1016.12	-2783.50	1745815.95	14576546.10	40°08'10.246"N	80°37'22.414"W	2963.17	290.055	1.95	0.10	1.95
8096.00	89.910	348.340	6099.12	2580.67	1107.27	-2801.97	1745797.49	14576637.21	40°08'11.148"N	80°37'22.647"W	3012.82	291.563	0.45	0.00	-0.45
8189.00	90.340	346.120	6098.92	2665.22	1197.97	-2822.52	1745776.95	14576727.87	40°08'12.045"N	80°37'22.906"W	3066.23	292.998	2.43	0.46	-2.39
8280.00	90.400	345.430	6098.33	2748.89	1286.17	-2844.88	1745754.59	14576816.04	40°08'12.917"N	80°37'23.189"W	3122.11	294.328	0.76	0.07	-0.76
8372.00	90.340	347.470	6097.74	2833.05	1375.61	-2866.44	1745733.05	14576905.44	40°08'13.802"N	80°37'23.462"W	3179.43	295.636	2.22	-0.07	2.22
8464.00	90.340	343.210	6097.19	2917.90	1464.59	-2889.71	1745709.78	14576994.39	40°08'14.682"N	80°37'23.757"W	3239.67	296.877	4.63	0.00	-4.63
8556.00	90.400	342.770	6096.60	3004.15	1552.56	-2916.63	1745682.88	14577082.33	40°08'15.553"N	80°37'24.099"W	3304.11	298.027	0.48	0.07	-0.48
8646.00	90.580	343.640	6095.83	3088.40	1638.72	-2942.63	1745656.88	14577168.45	40°08'16.405"N	80°37'24.429"W	3368.16	299.113	0.99	0.20	0.97
8738.00	90.680	344.880	6094.81	3173.92	1727.26	-2967.59	1745631.94	14577256.96	40°08'17.281"N	80°37'24.745"W	3433.66	300.201	1.35	0.11	1.35
8830.00	90.800	346.970	6093.63	3258.40	1816.49	-2989.96	1745609.58	14577346.15	40°08'18.164"N	80°37'25.028"W	3498.49	301.280	2.28	0.13	2.27
8921.00	90.800	348.800	6092.36	3340.70	1905.45	-3009.05	1745590.49	14577435.08	40°08'19.044"N	80°37'25.269"W	3561.62	302.344	2.01	0.00	2.01
9012.00	90.620	347.320	6091.23	3422.87	1994.47	-3027.88	1745571.67	14577524.06	40°08'19.924"N	80°37'25.507"W	3625.73	303.373	1.64	-0.20	-1.63
9103.00	90.710	344.200	6090.17	3506.54	2082.66	-3050.26	1745549.30	14577612.22	40°08'20.797"N	80°37'25.790"W	3693.44	304.325	3.43	0.10	-3.43

REFERENCE WELLPATH IDENTIFICATION

Operator	Slot	Slot 201H
SOUTHWESTERN ENERGY	Well	Dallas Hall OHI 201H
Area	Wellbore	Dallas Hall OHI 201H AWB
Field		
Facility		

WELLPATH DATA (151 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	VertSect [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]
9193.00	90.770	343.970	6089.01	3590.30	2169.20	-3074.93	1745524.63	14577698.73	40°08'21.653"N	80°37'26.103"W	3763.06	305.201	0.26	0.07	-0.26
9285.00	90.830	344.600	6087.72	3675.79	2257.75	-3099.85	1745499.72	14577787.24	40°08'22.529"N	80°37'26.419"W	3834.91	306.067	0.69	0.07	0.68
9376.00	89.820	342.740	6087.21	3760.72	2345.07	-3125.43	1745474.15	14577874.53	40°08'23.393"N	80°37'26.744"W	3907.39	306.882	2.33	-1.11	-2.04
9468.00	90.550	342.430	6086.91	3847.20	2432.86	-3152.97	1745446.63	14577962.28	40°08'24.262"N	80°37'27.094"W	3982.46	307.654	0.86	0.79	-0.34
9560.00	90.520	345.190	6086.05	3932.97	2521.20	-3178.62	1745420.99	14578050.59	40°08'25.136"N	80°37'27.419"W	4057.10	308.421	3.00	-0.03	3.00
9651.00	90.580	347.560	6085.18	4016.26	2609.62	-3200.05	1745399.56	14578138.98	40°08'26.011"N	80°37'27.690"W	4129.22	309.197	2.61	0.07	2.60
9743.00	90.620	349.410	6084.21	4099.04	2699.76	-3218.42	1745381.21	14578229.08	40°08'26.902"N	80°37'27.922"W	4200.82	309.992	2.01	0.04	2.01
9835.00	90.710	351.390	6083.15	4180.43	2790.46	-3233.76	1745365.87	14578319.75	40°08'27.799"N	80°37'28.114"W	4271.28	310.791	2.15	0.10	2.15
9928.00	90.710	353.300	6081.99	4261.19	2882.62	-3246.14	1745353.49	14578411.87	40°08'28.710"N	80°37'28.269"W	4341.31	311.606	2.05	0.00	2.05
10021.00	90.620	352.860	6080.91	4341.36	2974.94	-3257.35	1745342.29	14578504.15	40°08'29.623"N	80°37'28.408"W	4411.41	312.406	0.48	-0.10	-0.47
10114.00	90.680	347.290	6079.86	4423.86	3066.51	-3273.37	1745326.27	14578595.68	40°08'30.529"N	80°37'28.609"W	4485.35	313.131	5.99	0.06	-5.99
10205.00	90.710	343.570	6078.75	4507.72	3154.56	-3296.26	1745303.40	14578683.70	40°08'31.400"N	80°37'28.899"W	4562.51	313.742	4.09	0.03	-4.09
10298.00	90.460	346.760	6077.81	4593.61	3244.44	-3320.06	1745279.60	14578773.55	40°08'32.289"N	80°37'29.201"W	4642.11	314.340	3.44	-0.27	3.43
10391.00	90.770	352.500	6076.81	4676.43	3335.88	-3336.79	1745262.87	14578864.95	40°08'33.193"N	80°37'29.412"W	4718.29	314.992	6.18	0.33	6.17
10483.00	90.400	351.910	6075.87	4756.44	3427.02	-3349.27	1745250.40	14578956.06	40°08'34.094"N	80°37'29.567"W	4791.88	315.657	0.76	-0.40	-0.64
10576.00	90.280	351.630	6075.31	4837.67	3519.06	-3362.58	1745237.09	14579048.07	40°08'35.004"N	80°37'29.734"W	4867.32	316.303	0.33	-0.13	-0.30
10667.00	90.220	349.780	6074.92	4917.96	3608.86	-3377.28	1745222.40	14579137.83	40°08'35.892"N	80°37'29.918"W	4942.66	316.899	2.03	-0.07	-2.03
10759.00	90.430	342.400	6074.40	5002.29	3698.10	-3399.38	1745200.31	14579227.04	40°08'36.775"N	80°37'30.198"W	5023.12	317.410	8.02	0.23	-8.02
10851.00	90.430	336.340	6073.70	5090.35	3784.16	-3431.78	1745187.92	14579313.06	40°08'37.627"N	80°37'30.610"W	5108.52	317.796	6.59	0.00	-6.59
10944.00	90.370	334.320	6073.05	5181.07	3868.67	-3470.60	1745179.12	14579397.53	40°08'38.464"N	80°37'31.105"W	5197.27	318.105	2.17	-0.06	-2.17
11036.00	90.250	339.830	6072.56	5270.12	3953.37	-3506.62	1745093.31	14579482.20	40°08'39.302"N	80°37'31.562"W	5284.32	318.429	5.99	-0.13	5.99
11127.00	90.310	341.770	6072.11	5356.58	4039.30	-3536.34	1745063.40	14579568.10	40°08'40.153"N	80°37'31.943"W	5368.58	318.798	2.13	0.07	2.13
11220.00	90.280	342.860	6071.63	5444.14	4127.90	-3564.59	1745035.16	14579656.67	40°08'41.029"N	80°37'32.302"W	5453.98	319.188	1.17	-0.03	1.17
11312.00	90.280	346.850	6071.18	5529.29	4216.69	-3588.62	1745011.14	14579745.42	40°08'41.908"N	80°37'32.606"W	5537.03	319.600	4.34	0.00	4.34
11405.00	91.290	348.440	6069.91	5613.55	4307.52	-3608.52	1744991.25	14579836.22	40°08'42.806"N	80°37'32.858"W	5619.27	320.046	2.03	1.09	1.71
11498.00	92.990	347.790	6066.44	5697.44	4398.46	-3627.66	1744972.12	14579927.12	40°08'43.706"N	80°37'33.099"W	5701.44	320.486	1.96	1.83	-0.70
11590.00	90.580	347.570	6063.57	5780.74	4488.29	-3647.28	1744952.51	14580016.92	40°08'44.594"N	80°37'33.347"W	5783.37	320.902	2.63	-2.62	-0.24
11683.00	90.400	347.780	6062.78	5865.00	4579.14	-3667.13	1744932.67	14580107.73	40°08'45.493"N	80°37'33.598"W	5866.55	321.311	0.30	-0.19	0.23
11776.00	90.460	349.120	6062.08	5948.71	4670.26	-3685.75	1744914.05	14580198.81	40°08'46.394"N	80°37'33.832"W	5949.46	321.720	1.44	0.06	1.44
11869.00	90.650	343.530	6061.18	6033.83	4760.58	-3707.73	1744892.08	14580289.10	40°08'47.287"N	80°37'34.111"W	6034.10	322.087	6.01	0.20	-6.01

Actual Wellpath Report

Dallas Hall OHI 201H AWP Proj:11904'

Page 7 of 9

REFERENCE WELLPATH IDENTIFICATION	
Operator	SOUTHWESTERN ENERGY
Area	Ohio County, WV
Field	Ohio
Facility	Dallas Hall OHI Pad
Slot	Slot 201H
Well	Dallas Hall OHI 201H
Wellbore	Dallas Hall OHI 201H AWB

WELLPATH DATA (151 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]
11904.00	90.650	343.530	6060.78	6066.52	4794.14	-3717.65	1744882.17	14580322.65	40°08'47.619"N	80°37'34.237"W	6066.69	322.208	0.00	0.00	0.00

HOLE & CASING SECTIONS - Ref Wellbore: Dallas Hall OHI 201H AWB Ref Wellpath: Dallas Hall OHI 201H AWP Proj:11904'										
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	End N/S [ft]	Start E/W [ft]	End E/W [ft]	End E/W [ft]
17.5in Open Hole	26.00	486.00	460.00	26.00	485.99	0.00	0.00	0.00	0.00	1.86
13.375in Casing Surface	26.00	486.00	460.00	26.00	485.99	0.00	0.00	0.00	0.00	1.86
12.25in Open Hole	486.00	1926.00	1440.00	485.99	1899.79	2.29	1.86	1.86	4.47	-254.26
9.625in Casing Intermediate	26.00	1926.00	1900.00	26.00	1899.79	0.00	0.00	0.00	0.00	-254.26
8.75in Open Hole	1926.00	5973.00	4047.00	1899.79	5612.38	4.47	-368.81	-254.26	-368.81	-1803.92
8.5in Open Hole	5973.00	11904.00	5931.00	5612.38	6060.78	-368.81	4794.14	-1803.92	4794.14	-3717.65
5.5in Casing Production	26.00	11904.00	11878.00	26.00	6060.78	0.00	0.00	0.00	0.00	-3717.65

REFERENCE WELLPATH IDENTIFICATION

Operator	SOUTHWESTERN ENERGY	Slot	Slot 201H
Area	Ohio County, WV	Well	Dallas Hall OHI 201H
Field	Ohio	Wellbore	Dallas Hall OHI 201H AWB
Facility	Dallas Hall OHI Pad		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Dallas Hall OHI 201H BHL Rev-2	6064.00	4823.34	-3683.55	1744916.25	14580351.84	40°08'47.907"N	80°37'33.796"W	point
201H Bend Point 2 Rev 2	6101.28	741.49	-2686.16	1745913.25	14576271.57	40°08'07.528"N	80°37'21.176"W	point
201H Bend Point 1	6105.80	-36.49	-2312.76	1746286.51	14575493.89	40°07'59.824"N	80°37'16.411"W	point
Dallas Hall OHI 201H LP Rev-3	6108.82	-21.37	-2323.62	1746275.65	14575509.01	40°07'59.974"N	80°37'16.550"W	point
Dallas Hall OHI 201H LP Rev-2	6109.00	-36.49	-2312.76	1746286.51	14575493.89	40°07'59.824"N	80°37'16.411"W	point

WELLPATH COMPOSITION - Ref Wellbore: Dallas Hall OHI 201H AWB Ref Wellpath: Dallas Hall OHI 201H AWP Proj:11904'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	500.00	BHI Generic gyro - northseeking (Standard)	01 MS Gyro <17-1/2"> (50'-500')	Dallas Hall OHI 201H AWB
500.00	772.00	BHI Generic gyro - northseeking (Standard)	02 MS Gyro <12-1/4"> (500')(531'-772')	Dallas Hall OHI 201H AWB
772.00	1873.00	OWSG MWD rev2 + HRGM	03 Premier MWD <12-1/4"> (772')(883'-1873')	Dallas Hall OHI 201H AWB
1873.00	5900.00	OWSG MWD rev2 + HRGM	04 Premier MWD <8-3/4"> (1873')(1958'-5900')	Dallas Hall OHI 201H AWB
5900.00	11869.00	BHI AutoTrak Curve (Short)	05 BH AT Curve <8-1/2"> (5900')(5948'-11869')	Dallas Hall OHI 201H AWB
11869.00	11904.00	Blind Drilling (std)	Projection to bit	Dallas Hall OHI 201H AWB

REFERENCE WELLPATH IDENTIFICATION

Operator	Area	Field	Facility	Slot	Well	Wellbore	Slot 201H
SOUTHWESTERN ENERGY	Ohio County, WV	Ohio	Dallas Hall OHI Pad	Well	Dallas Hall OHI 201H	Dallas Hall OHI 201H AWB	

COMMENTS

Wellpath general comments
API: 47-069-00283-0000
BH Job #: 109511608
Rig: SDC 41
Duration: 11/12/2018 - 11/15/2018