



SWN PRODUCTION COMPANY, LLC



Location: Brooke County, WV

Slot: 606H

Field: Brooke

Well: State of WV DNR C BRK 606H

Facility: State of WV DNR C BRK Pad

Wellbore: State of WV DNR C BRK 606H AWB

Plot reference wellpath is State of WV DNR C BRK 606H awp Proj: 31143

Grid System: NAD83 / UTM Zone 17 North, US feet

True vertical depths are referenced to SDC 501 (KB)

North Reference: Grid north

Reference wellpath measured depths are referenced to SDC 501 (KB)

Scale: True distance

SDC 501 (KB) to Mean Sea Level: 1015 feet

Coordinates are in feet referenced to Slot

Mean Sea Level to Ground level (At Slot: 606H): -989 feet

Depths are in feet

Offset wellpath MDs are referenced to each path's default MD datum

Created by: tranlam on 2024-08-06; Database: WA_MPL_EASTERNUS_Defn

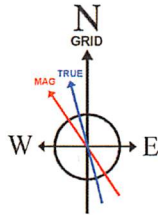
Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
State of WV DNR C BRK Pad			1769295.332	14637176.548	40°18'8.5200"N	80°32'15.9300"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
606H	-57.97	20.63	1769315.950	14637118.600	40°18'7.9461"N	80°32'15.6677"W
SDC 501 (KB) to Ground level (At Slot: 606H)					26ft	
Mean Sea Level to Ground level (At Slot: 606H)					-989ft	
SDC 501 (KB) to Mean Sea Level					1015ft	

Bottom Hole Location

MD (ft)	Inc (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
31143.00	89.050	159.590	5912.25	-24036.16	5832.55	1775146.27	14613091.64	40°14'10.1204"N	80°31'2.0794"W

API: 47009003430000
BH JOB: 112302114
DURATION: 7/25/2024 - 8/1/2024
Rig: SDC 501

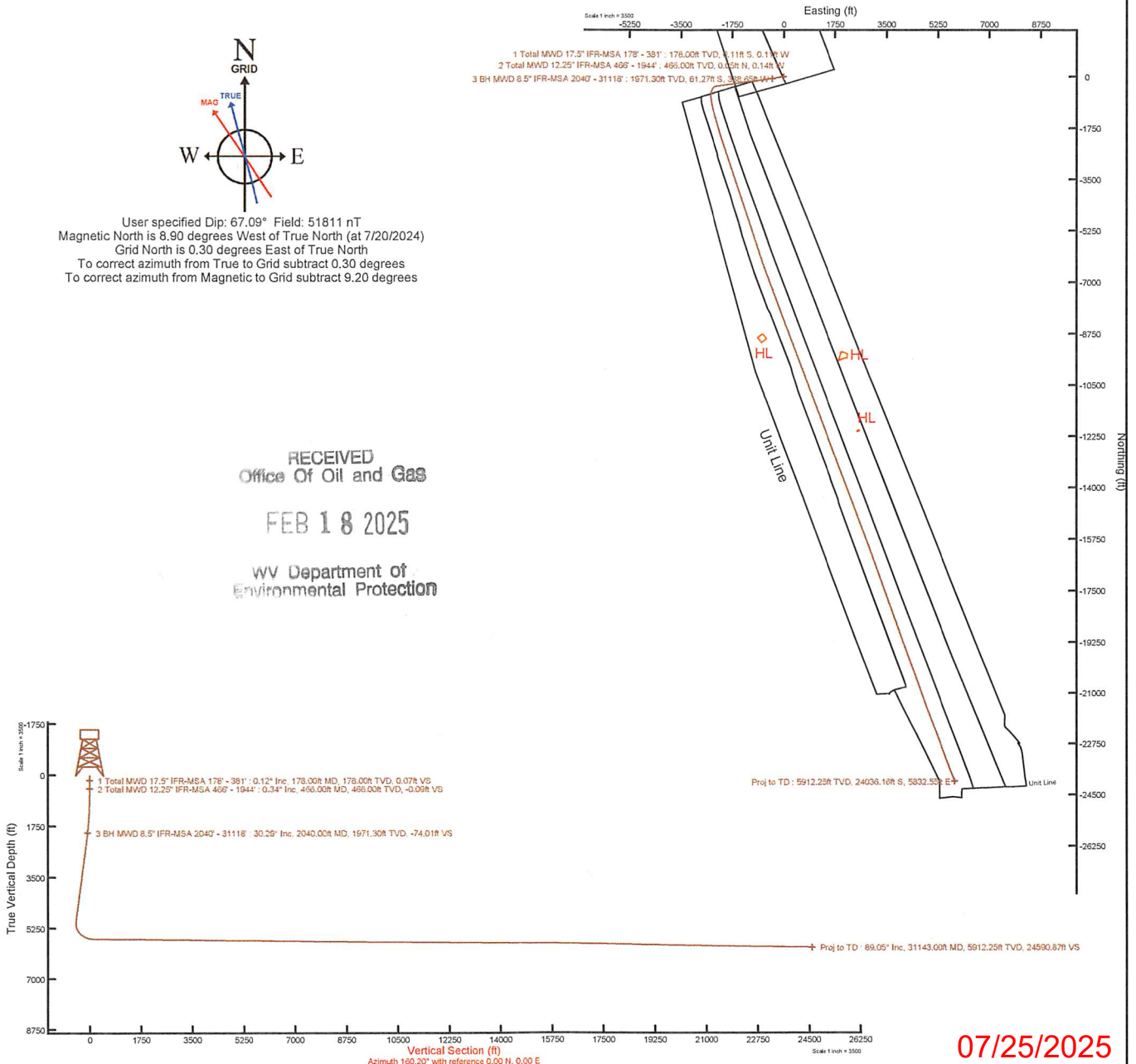


User specified Dip: 67.09° Field: 51811 nT
Magnetic North is 8.90 degrees West of True North (at 7/20/2024)
Grid North is 0.30 degrees East of True North
To correct azimuth from True to Grid subtract 0.30 degrees
To correct azimuth from Magnetic to Grid subtract 9.20 degrees

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Environmental Protection



07/25/2025

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999619	Report Generated	8/6/2024 at 11:26:11 AM
Convergence at slot	0.30° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-57.97	20.63	1769315.95	14637118.60	40°18'7.9461"N	80°32'15.6677"W
Facility Reference Pt			1769295.33	14637176.55	40°18'8.5200"N	80°32'15.9300"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 501 (KB) to Facility Vertical Datum	1015.00ft
Horizontal Reference Pt	Slot	SDC 501 (KB) to Mean Sea Level	1015.00ft
Vertical Reference Pt	SDC 501 (KB)	SDC 501 (KB) to Ground Level at Slot (606H)	26.00ft
MD Reference Pt	SDC 501 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	160.20°

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Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
0.00†	0.000	224.870	0.00	0.00	0.00	0.00	1769315.95	14637118.60	40°18'7.9461"N	80°32'15.6677"W	0.00	0.000	0.00
26.00	0.000	224.870	26.00	0.00	0.00	0.00	1769315.95	14637118.60	40°18'7.9461"N	80°32'15.6677"W	0.00	0.000	0.00
178.00	0.120	224.870	178.00	0.07	-0.11	-0.11	1769315.84	14637118.49	40°18'7.9450"N	80°32'15.6692"W	0.16	224.870	0.08
238.00	0.150	262.920	238.00	0.08	-0.17	-0.23	1769315.72	14637118.43	40°18'7.9445"N	80°32'15.6707"W	0.29	234.548	0.15
328.00	0.060	238.110	328.00	0.06	-0.21	-0.39	1769315.56	14637118.39	40°18'7.9441"N	80°32'15.6728"W	0.44	242.197	0.11
381.00	0.270	86.250	381.00	0.10	-0.21	-0.29	1769315.66	14637118.39	40°18'7.9440"N	80°32'15.6715"W	0.36	233.754	0.61
466.00	0.340	348.690	466.00	-0.09	0.05	-0.14	1769315.81	14637118.65	40°18'7.9466"N	80°32'15.6695"W	0.15	288.725	0.54
506.00	0.360	301.890	506.00	-0.31	0.23	-0.27	1769315.68	14637118.83	40°18'7.9484"N	80°32'15.6712"W	0.35	310.453	0.70
597.00	2.640	278.420	596.96	-1.52	0.69	-2.59	1769313.36	14637119.29	40°18'7.9530"N	80°32'15.7010"W	2.68	284.901	2.54
687.00	4.730	274.400	686.77	-4.03	1.28	-8.34	1769307.62	14637119.88	40°18'7.9591"N	80°32'15.7752"W	8.43	278.705	2.34
778.00	6.070	268.440	777.37	-7.07	1.43	-16.89	1769299.07	14637120.03	40°18'7.9611"N	80°32'15.8856"W	16.95	274.851	1.59
869.00	7.540	264.020	867.72	-10.00	0.68	-27.64	1769288.32	14637119.28	40°18'7.9542"N	80°32'16.0243"W	27.64	271.410	1.71
959.00	8.960	260.800	956.79	-12.70	-1.06	-40.43	1769275.54	14637117.54	40°18'7.9377"N	80°32'16.1896"W	40.44	268.504	1.66
1052.00	10.890	260.220	1048.39	-15.56	-3.71	-56.24	1769259.74	14637114.90	40°18'7.9124"N	80°32'16.3938"W	56.36	266.230	2.08
1143.00	12.560	260.770	1137.49	-18.87	-6.75	-74.47	1769241.50	14637111.85	40°18'7.8832"N	80°32'16.6294"W	74.78	264.819	1.84
1234.00	13.980	260.110	1226.06	-22.58	-10.23	-95.07	1769220.92	14637108.38	40°18'7.8499"N	80°32'16.8954"W	95.62	263.859	1.57
1324.00	14.870	260.660	1313.22	-26.55	-13.97	-117.18	1769198.82	14637104.64	40°18'7.8141"N	80°32'17.1810"W	118.01	263.201	1.00
1415.00	16.370	260.710	1400.86	-31.01	-17.94	-141.35	1769174.65	14637100.67	40°18'7.7761"N	80°32'17.4933"W	142.49	262.769	1.65
1505.00	18.260	261.940	1486.78	-36.19	-21.96	-167.83	1769148.18	14637096.65	40°18'7.7377"N	80°32'17.8353"W	169.26	262.546	2.14
1596.00	20.490	260.350	1572.62	-41.90	-26.63	-197.66	1769118.37	14637091.98	40°18'7.6931"N	80°32'18.2205"W	199.44	262.327	2.52
1686.00	23.010	259.540	1656.20	-47.53	-32.46	-230.49	1769085.55	14637086.15	40°18'7.6372"N	80°32'18.6447"W	232.76	261.983	2.82
1777.00	25.140	260.120	1739.28	-53.75	-39.01	-267.02	1769049.03	14637079.60	40°18'7.5744"N	80°32'19.1167"W	269.86	261.688	2.36
1867.00	27.300	259.840	1820.02	-60.50	-45.93	-306.18	1769009.89	14637072.68	40°18'7.5080"N	80°32'19.6225"W	309.61	261.468	2.40
1944.00	29.060	259.140	1887.89	-66.36	-52.57	-341.93	1768974.15	14637066.05	40°18'7.4442"N	80°32'20.0843"W	345.95	261.259	2.33
2040.00	30.290	259.760	1971.30	-74.01	-61.27	-388.65	1768927.45	14637057.36	40°18'7.3607"N	80°32'20.6880"W	393.45	261.041	1.32
2130.00	32.040	260.370	2048.30	-81.99	-69.30	-434.53	1768881.59	14637049.33	40°18'7.2837"N	80°32'21.2806"W	440.02	260.939	1.98
2222.00	32.010	262.310	2126.31	-91.41	-76.64	-482.75	1768833.38	14637041.99	40°18'7.2136"N	80°32'21.9035"W	488.80	260.979	1.12
2313.00	31.990	262.110	2203.48	-101.45	-83.18	-530.53	1768785.62	14637035.45	40°18'7.1514"N	80°32'22.5206"W	537.01	261.089	0.12
2403.00	32.000	262.470	2279.81	-111.44	-89.58	-577.78	1768738.39	14637029.06	40°18'7.0907"N	80°32'23.1309"W	584.69	261.187	0.21
2494.00	31.990	262.400	2356.98	-121.65	-95.92	-625.58	1768690.61	14637022.71	40°18'7.0304"N	80°32'23.7482"W	632.89	261.282	0.04

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
2584.00	31.930	262.280	2433.34	-131.67	-102.27	-672.80	1768643.41	14637016.37	40°18'6.9701"N	80°32'24.3580"W	680.52	261.356	0.10
2675.00	31.970	262.360	2510.56	-141.78	-108.71	-720.52	1768595.71	14637009.93	40°18'6.9089"N	80°32'24.9744"W	728.67	261.420	0.06
2765.00	31.990	262.320	2586.90	-151.81	-115.06	-767.76	1768548.48	14637003.58	40°18'6.8486"N	80°32'25.5845"W	776.33	261.477	0.03
2856.00	31.980	262.360	2664.08	-161.95	-121.49	-815.53	1768500.73	14636997.16	40°18'6.7875"N	80°32'26.2015"W	824.53	261.527	0.03
2945.00	32.010	262.910	2739.56	-172.10	-127.53	-862.30	1768453.98	14636991.12	40°18'6.7302"N	80°32'26.8055"W	871.68	261.587	0.33
3036.00	31.940	262.530	2816.76	-182.55	-133.64	-910.10	1768406.20	14636985.01	40°18'6.6723"N	80°32'27.4229"W	919.86	261.646	0.23
3126.00	32.010	262.770	2893.10	-192.82	-139.74	-957.37	1768358.95	14636978.92	40°18'6.6145"N	80°32'28.0333"W	967.51	261.696	0.16
3218.00	32.060	262.530	2971.09	-203.34	-145.98	-1005.77	1768310.57	14636972.68	40°18'6.5552"N	80°32'28.6584"W	1016.30	261.742	0.15
3309.00	31.100	262.290	3048.61	-213.42	-152.27	-1053.00	1768263.35	14636966.39	40°18'6.4955"N	80°32'29.2685"W	1063.96	261.772	1.06
3397.00	31.960	262.500	3123.62	-223.14	-158.36	-1098.62	1768217.75	14636960.30	40°18'6.4376"N	80°32'29.8576"W	1109.97	261.798	0.99
3487.00	32.010	262.860	3199.96	-233.45	-164.44	-1145.90	1768170.49	14636954.23	40°18'6.3800"N	80°32'30.4683"W	1157.64	261.834	0.22
3578.00	31.960	262.720	3277.14	-243.95	-170.49	-1193.72	1768122.68	14636948.18	40°18'6.3227"N	80°32'31.0859"W	1205.84	261.872	0.10
3668.00	31.980	262.460	3353.49	-254.18	-176.63	-1240.98	1768075.45	14636942.04	40°18'6.2644"N	80°32'31.6962"W	1253.48	261.899	0.15
3759.00	31.960	262.340	3430.69	-264.36	-183.00	-1288.74	1768027.71	14636935.67	40°18'6.2038"N	80°32'32.3130"W	1301.67	261.918	0.07
3849.00	31.950	261.940	3507.05	-274.21	-189.52	-1335.92	1767980.54	14636929.16	40°18'6.1419"N	80°32'32.9225"W	1349.30	261.926	0.24
3940.00	31.910	262.220	3584.28	-284.12	-196.15	-1383.59	1767932.89	14636922.53	40°18'6.0788"N	80°32'33.5381"W	1397.43	261.931	0.17
4030.00	31.880	262.220	3660.70	-294.02	-202.59	-1430.71	1767885.79	14636916.09	40°18'6.0176"N	80°32'34.1467"W	1444.98	261.941	0.03
4120.00	31.980	262.130	3737.08	-303.90	-209.07	-1477.86	1767838.65	14636909.61	40°18'5.9559"N	80°32'34.7557"W	1492.58	261.948	0.12
4211.00	31.910	262.380	3814.30	-313.96	-215.56	-1525.57	1767790.96	14636903.13	40°18'5.8943"N	80°32'35.3719"W	1540.72	261.958	0.16
4301.00	32.450	262.060	3890.47	-323.94	-222.05	-1573.06	1767743.49	14636896.64	40°18'5.8325"N	80°32'35.9853"W	1588.66	261.966	0.63
4392.00	32.380	262.140	3967.29	-334.00	-228.75	-1621.38	1767695.19	14636889.94	40°18'5.7688"N	80°32'36.6093"W	1637.44	261.970	0.09
4482.00	32.200	261.700	4043.37	-343.76	-235.51	-1668.98	1767647.61	14636883.18	40°18'5.7044"N	80°32'37.2241"W	1685.51	261.968	0.33
4574.00	32.130	261.860	4121.25	-353.59	-242.51	-1717.45	1767599.15	14636876.18	40°18'5.6377"N	80°32'37.8502"W	1734.49	261.963	0.12
4662.00	32.330	262.490	4195.69	-363.33	-248.90	-1763.95	1767552.68	14636869.80	40°18'5.5769"N	80°32'38.4507"W	1781.42	261.968	0.44
4753.00	33.170	261.960	4272.23	-373.59	-255.56	-1812.72	1767503.92	14636863.14	40°18'5.5136"N	80°32'39.0807"W	1830.65	261.975	0.98
4844.00	33.280	261.730	4348.35	-383.65	-262.63	-1862.08	1767454.58	14636856.07	40°18'5.4462"N	80°32'39.7182"W	1880.51	261.972	0.18
4934.00	33.390	262.140	4423.54	-393.71	-269.57	-1911.05	1767405.63	14636849.13	40°18'5.3801"N	80°32'40.3506"W	1929.97	261.971	0.28
5025.00	33.200	262.250	4499.61	-404.09	-276.36	-1960.54	1767356.16	14636842.35	40°18'5.3156"N	80°32'40.9898"W	1979.92	261.976	0.22
5115.00	33.190	261.980	4574.92	-414.26	-283.12	-2009.35	1767307.37	14636835.59	40°18'5.2513"N	80°32'41.6202"W	2029.20	261.980	0.16
5211.00	32.830	261.860	4655.42	-424.89	-290.47	-2061.13	1767255.61	14636828.24	40°18'5.1812"N	80°32'42.2890"W	2081.50	261.978	0.38

Actual Wellpath Report
State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
5303.00	32.320	261.720	4732.95	-434.84	-297.54	-2110.15	1767206.60	14636821.17	40°18'5.1138"N	80°32'42.9222"W	2131.03	261.974	0.56
5394.00	33.220	261.980	4809.47	-444.79	-304.52	-2158.91	1767157.86	14636814.20	40°18'5.0473"N	80°32'43.5520"W	2180.28	261.971	1.00
5486.00	32.770	261.860	4886.63	-454.96	-311.56	-2208.51	1767108.28	14636807.16	40°18'4.9803"N	80°32'44.1926"W	2230.38	261.970	0.49
5578.00	33.100	262.240	4963.84	-465.24	-318.48	-2258.05	1767058.76	14636800.24	40°18'4.9144"N	80°32'44.8324"W	2280.40	261.972	0.42
5669.00	33.430	257.500	5039.94	-473.61	-327.26	-2307.15	1767009.68	14636791.46	40°18'4.8301"N	80°32'45.4667"W	2330.25	261.927	2.88
5761.00	33.380	241.620	5116.90	-473.05	-344.81	-2354.25	1766962.60	14636773.92	40°18'4.6591"N	80°32'46.0758"W	2379.37	261.668	9.48
5852.00	33.450	226.340	5192.99	-459.15	-374.08	-2394.49	1766922.37	14636744.67	40°18'4.3719"N	80°32'46.5971"W	2423.54	261.121	9.23
5944.00	37.170	213.470	5268.16	-432.22	-414.84	-2428.22	1766888.66	14636703.92	40°18'3.9709"N	80°32'47.0351"W	2463.40	260.305	9.02
6036.00	42.050	203.070	5339.09	-392.95	-466.45	-2455.67	1766861.22	14636652.32	40°18'3.4622"N	80°32'47.3928"W	2499.58	259.245	8.93
6127.00	47.390	192.890	5403.81	-342.33	-527.26	-2475.12	1766841.77	14636591.54	40°18'2.8623"N	80°32'47.6478"W	2530.66	257.974	9.80
6219.00	53.270	184.700	5462.58	-280.17	-597.13	-2485.72	1766831.19	14636521.69	40°18'2.1724"N	80°32'47.7892"W	2556.43	256.492	9.36
6310.00	59.520	179.920	5512.94	-209.98	-672.80	-2488.65	1766828.25	14636446.06	40°18'1.4248"N	80°32'47.8321"W	2577.99	254.872	8.14
6402.00	66.190	171.580	5554.95	-131.21	-754.28	-2482.42	1766834.48	14636364.61	40°18'0.6194"N	80°32'47.7570"W	2594.48	253.099	10.84
6493.00	72.620	171.100	5586.94	-47.67	-838.44	-2469.59	1766847.30	14636280.48	40°17'59.7870"N	80°32'47.5970"W	2608.04	251.247	7.08
6585.00	82.680	168.050	5606.60	40.88	-926.70	-2453.31	1766863.58	14636192.26	40°17'58.9141"N	80°32'47.3927"W	2622.50	249.307	11.40
6676.00	89.290	165.690	5612.96	130.99	-1015.04	-2432.69	1766884.19	14636103.94	40°17'58.0400"N	80°32'47.1325"W	2635.97	247.352	7.71
6768.00	89.290	162.710	5614.10	222.75	-1103.55	-2407.65	1766909.22	14636015.47	40°17'57.1642"N	80°32'46.8151"W	2648.51	245.376	3.24
6859.00	89.540	163.830	5615.03	313.61	-1190.69	-2381.46	1766935.41	14635928.36	40°17'56.3017"N	80°32'46.4828"W	2662.53	243.436	1.26
6951.00	89.540	163.300	5615.77	405.45	-1278.93	-2355.43	1766961.43	14635840.16	40°17'55.4285"N	80°32'46.1527"W	2680.24	241.499	0.58
7043.00	89.380	163.820	5616.64	497.29	-1367.17	-2329.39	1766987.45	14635751.96	40°17'54.5552"N	80°32'45.8225"W	2700.96	239.590	0.59
7135.00	89.720	163.290	5617.36	589.13	-1455.40	-2303.35	1767013.48	14635663.76	40°17'53.6820"N	80°32'45.4922"W	2724.63	237.713	0.68
7226.00	89.540	163.480	5617.95	679.98	-1542.60	-2277.33	1767039.49	14635576.59	40°17'52.8190"N	80°32'45.1622"W	2750.61	235.887	0.29
7318.00	89.880	163.700	5618.42	771.82	-1630.85	-2251.34	1767065.48	14635488.38	40°17'51.9456"N	80°32'44.8326"W	2779.96	234.081	0.44
7409.00	89.410	163.850	5618.98	862.64	-1718.22	-2225.91	1767090.89	14635401.03	40°17'51.0810"N	80°32'44.5103"W	2811.93	232.335	0.54
7501.00	89.260	163.650	5620.05	954.46	-1806.54	-2200.17	1767116.62	14635312.75	40°17'50.2069"N	80°32'44.1839"W	2846.81	230.611	0.27
7592.00	89.910	164.580	5620.71	1045.24	-1894.06	-2175.26	1767141.52	14635225.26	40°17'49.3408"N	80°32'43.8682"W	2884.31	228.953	1.25
7684.00	89.050	161.810	5621.54	1137.10	-1982.12	-2148.67	1767168.10	14635137.24	40°17'48.4693"N	80°32'43.5309"W	2923.28	227.309	3.15
7775.00	89.050	161.290	5623.05	1228.07	-2068.43	-2119.87	1767196.89	14635050.96	40°17'47.6149"N	80°32'43.1650"W	2961.80	225.704	0.57
7867.00	89.050	161.280	5624.58	1320.04	-2155.56	-2090.36	1767226.39	14634963.87	40°17'46.7525"N	80°32'42.7898"W	3002.67	224.120	0.01
7958.00	89.320	162.060	5625.87	1411.00	-2241.93	-2061.74	1767255.00	14634877.53	40°17'45.8975"N	80°32'42.4263"W	3045.82	222.603	0.91

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
8050.00	89.540	162.110	5626.78	1502.94	-2329.46	-2033.44	1767283.29	14634790.03	40°17'45.0311"N	80°32'42.0669"W	3092.13	221.118	0.25
8141.00	89.630	162.010	5627.44	1593.89	-2416.04	-2005.41	1767311.30	14634703.49	40°17'44.1742"N	80°32'41.7109"W	3139.89	219.694	0.15
8233.00	89.780	161.630	5627.92	1685.85	-2503.44	-1976.71	1767340.00	14634616.12	40°17'43.3090"N	80°32'41.3462"W	3189.77	218.295	0.44
8324.00	89.690	161.770	5628.34	1776.82	-2589.84	-1948.14	1767368.56	14634529.75	40°17'42.4538"N	80°32'40.9832"W	3240.76	216.951	0.18
8416.00	89.230	161.220	5629.21	1868.79	-2677.08	-1918.94	1767397.75	14634442.55	40°17'41.5903"N	80°32'40.6122"W	3293.79	215.633	0.78
8508.00	89.290	161.110	5630.39	1960.77	-2764.14	-1889.24	1767427.43	14634355.51	40°17'40.7284"N	80°32'40.2347"W	3348.09	214.352	0.14
8599.00	89.380	161.710	5631.45	2051.75	-2850.39	-1860.23	1767456.43	14634269.30	40°17'39.8747"N	80°32'39.8661"W	3403.70	213.129	0.67
8691.00	89.450	161.970	5632.39	2143.70	-2937.80	-1831.56	1767485.09	14634181.92	40°17'39.0094"N	80°32'39.5019"W	3461.98	211.941	0.29
8783.00	89.540	161.830	5633.20	2235.66	-3025.25	-1802.98	1767513.66	14634094.51	40°17'38.1439"N	80°32'39.1388"W	3521.77	210.794	0.18
8874.00	89.540	161.810	5633.93	2326.62	-3111.70	-1774.59	1767542.04	14634008.09	40°17'37.2881"N	80°32'38.7782"W	3582.16	209.696	0.02
8966.00	89.350	161.650	5634.82	2418.58	-3199.06	-1745.75	1767570.87	14633920.77	40°17'36.4234"N	80°32'38.4118"W	3644.40	208.622	0.27
9057.00	89.450	161.850	5635.77	2509.54	-3285.48	-1717.25	1767599.36	14633834.38	40°17'35.5680"N	80°32'38.0498"W	3707.20	207.595	0.25
9149.00	89.410	161.450	5636.69	2601.51	-3372.80	-1688.29	1767628.31	14633747.10	40°17'34.7037"N	80°32'37.6819"W	3771.75	206.591	0.44
9241.00	89.420	161.470	5637.63	2693.48	-3460.02	-1659.04	1767657.55	14633659.91	40°17'33.8403"N	80°32'37.3102"W	3837.20	205.617	0.02
9333.00	89.540	161.730	5638.46	2785.45	-3547.31	-1630.00	1767686.58	14633572.65	40°17'32.9762"N	80°32'36.9412"W	3903.88	204.679	0.31
9424.00	89.380	161.880	5639.32	2876.41	-3633.75	-1601.59	1767714.98	14633486.24	40°17'32.1206"N	80°32'36.5803"W	3971.05	203.786	0.24
9516.00	89.850	161.340	5639.94	2968.38	-3721.05	-1572.56	1767743.99	14633398.97	40°17'31.2564"N	80°32'36.2116"W	4039.70	202.909	0.78
9607.00	88.980	161.560	5640.87	3059.35	-3807.32	-1543.61	1767772.93	14633312.74	40°17'30.4025"N	80°32'35.8438"W	4108.34	202.069	0.99
9699.00	89.170	161.690	5642.35	3151.31	-3894.62	-1514.62	1767801.91	14633225.47	40°17'29.5383"N	80°32'35.4754"W	4178.77	201.251	0.25
9791.00	88.860	161.350	5643.94	3243.28	-3981.86	-1485.46	1767831.06	14633138.26	40°17'28.6748"N	80°32'35.1049"W	4249.92	200.458	0.50
9883.00	89.110	161.920	5645.57	3335.23	-4069.16	-1456.48	1767860.03	14633051.00	40°17'27.8106"N	80°32'34.7367"W	4321.97	199.694	0.68
9974.00	89.140	161.620	5646.96	3426.19	-4155.58	-1428.01	1767888.48	14632964.61	40°17'26.9551"N	80°32'34.3752"W	4394.10	198.965	0.33
10066.00	89.080	162.050	5648.38	3518.14	-4242.99	-1399.33	1767917.15	14632877.24	40°17'26.0900"N	80°32'34.0109"W	4467.78	198.253	0.47
10158.00	89.140	161.740	5649.81	3610.09	-4330.42	-1370.75	1767945.73	14632789.84	40°17'25.2245"N	80°32'33.6478"W	4542.19	197.565	0.34
10249.00	89.600	161.540	5650.81	3701.05	-4416.78	-1342.09	1767974.38	14632703.51	40°17'24.3697"N	80°32'33.2837"W	4616.19	196.902	0.55
10341.00	89.510	162.080	5651.53	3793.01	-4504.18	-1313.37	1768003.09	14632616.14	40°17'23.5045"N	80°32'32.9190"W	4691.76	196.256	0.60
10432.00	89.230	161.540	5652.53	3883.97	-4590.63	-1284.96	1768031.48	14632529.73	40°17'22.6488"N	80°32'32.5582"W	4767.08	195.637	0.67
10524.00	89.110	161.550	5653.86	3975.94	-4677.89	-1255.84	1768060.59	14632442.50	40°17'21.7851"N	80°32'32.1882"W	4843.53	195.027	0.13
10615.00	89.660	162.000	5654.84	4066.90	-4764.32	-1227.38	1768089.04	14632356.10	40°17'20.9296"N	80°32'31.8268"W	4919.88	194.446	0.78
10707.00	89.010	161.400	5655.91	4158.86	-4851.66	-1198.50	1768117.91	14632268.80	40°17'20.0650"N	80°32'31.4598"W	4997.50	193.876	0.96

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
10799.00	88.770	161.780	5657.69	4250.81	-4938.94	-1169.45	1768146.95	14632181.56	40°17'19.2011"N	80°32'31.0908"W	5075.50	193.321	0.49
10890.00	88.980	161.690	5659.48	4341.76	-5025.33	-1140.93	1768175.45	14632095.19	40°17'18.3459"N	80°32'30.7286"W	5153.22	192.791	0.25
10982.00	89.010	161.860	5661.09	4433.71	-5112.71	-1112.17	1768204.21	14632007.85	40°17'17.4810"N	80°32'30.3632"W	5232.27	192.272	0.19
11073.00	88.980	161.550	5662.68	4524.67	-5199.09	-1083.60	1768232.76	14631921.50	40°17'16.6259"N	80°32'30.0004"W	5310.82	191.773	0.34
11165.00	89.200	162.060	5664.15	4616.62	-5286.48	-1054.88	1768261.47	14631834.14	40°17'15.7609"N	80°32'29.6356"W	5390.70	191.285	0.60
11257.00	89.350	162.560	5665.31	4708.55	-5374.12	-1026.93	1768289.42	14631746.54	40°17'14.8934"N	80°32'29.2808"W	5471.36	190.818	0.57
11349.00	89.720	161.520	5666.06	4800.50	-5461.64	-998.56	1768317.77	14631659.06	40°17'14.0272"N	80°32'28.9206"W	5552.17	190.361	1.20
11440.00	89.450	161.600	5666.72	4891.47	-5547.96	-969.78	1768346.54	14631572.76	40°17'13.1727"N	80°32'28.5549"W	5632.08	189.915	0.31
11532.00	89.420	161.520	5667.62	4983.44	-5635.23	-940.68	1768375.63	14631485.52	40°17'12.3088"N	80°32'28.1853"W	5713.21	189.477	0.09
11624.00	89.570	161.770	5668.43	5075.41	-5722.55	-911.71	1768404.59	14631398.24	40°17'11.4445"N	80°32'27.8173"W	5794.72	189.052	0.32
11716.00	89.570	161.860	5669.12	5167.37	-5809.95	-883.00	1768433.29	14631310.87	40°17'10.5793"N	80°32'27.4527"W	5876.67	188.642	0.10
11807.00	89.110	161.610	5670.17	5258.33	-5896.36	-854.48	1768461.80	14631224.50	40°17'9.7240"N	80°32'27.0905"W	5957.95	188.246	0.58
11899.00	90.520	161.740	5670.47	5350.30	-5983.69	-825.55	1768490.71	14631137.20	40°17'8.8595"N	80°32'26.7231"W	6040.37	187.855	1.54
11991.00	89.320	161.580	5670.60	5442.26	-6071.02	-796.61	1768519.65	14631049.91	40°17'7.9951"N	80°32'26.3554"W	6123.06	187.475	1.32
12083.00	89.290	161.460	5671.71	5534.23	-6158.27	-767.45	1768548.80	14630962.69	40°17'7.1315"N	80°32'25.9850"W	6205.90	187.104	0.13
12174.00	89.200	161.400	5672.91	5625.20	-6244.52	-738.47	1768577.76	14630876.47	40°17'6.2776"N	80°32'25.6168"W	6288.04	186.744	0.12
12266.00	89.290	161.880	5674.13	5717.17	-6331.83	-709.49	1768606.73	14630789.19	40°17'5.4134"N	80°32'25.2488"W	6371.46	186.393	0.53
12358.00	89.170	161.790	5675.36	5809.12	-6419.24	-680.81	1768635.40	14630701.82	40°17'4.5482"N	80°32'24.8846"W	6455.24	186.054	0.16
12450.00	89.320	159.200	5676.57	5901.10	-6505.94	-650.10	1768666.10	14630615.15	40°17'3.6898"N	80°32'24.4941"W	6538.34	185.706	2.82
12542.00	89.320	159.300	5677.67	5993.08	-6591.97	-617.51	1768698.68	14630529.15	40°17'2.8381"N	80°32'24.0793"W	6620.83	185.352	0.11
12633.00	89.110	158.910	5678.91	6084.06	-6676.98	-585.06	1768731.12	14630444.18	40°17'1.9964"N	80°32'23.6663"W	6702.56	185.008	0.49
12725.00	89.200	159.540	5680.27	6176.03	-6762.99	-552.43	1768763.73	14630358.20	40°17'1.1448"N	80°32'23.2510"W	6785.51	184.670	0.69
12817.00	89.140	159.450	5681.60	6268.02	-6849.15	-520.20	1768795.95	14630272.08	40°17'0.2917"N	80°32'22.8410"W	6868.87	184.343	0.12
12909.00	89.290	159.810	5682.86	6360.00	-6935.39	-488.18	1768827.95	14630185.87	40°16'59.4379"N	80°32'22.4337"W	6952.55	184.026	0.42
13000.00	89.260	159.700	5684.01	6450.99	-7020.76	-456.70	1768859.43	14630100.53	40°16'58.5927"N	80°32'22.0331"W	7035.60	183.722	0.13
13092.00	89.420	160.220	5685.07	6542.99	-7107.18	-425.17	1768890.94	14630014.14	40°16'57.7370"N	80°32'21.6322"W	7119.89	183.424	0.59
13184.00	89.110	159.250	5686.25	6634.98	-7193.48	-393.31	1768922.79	14629927.88	40°16'56.8826"N	80°32'21.2268"W	7204.22	183.130	1.11
13276.00	89.200	159.120	5687.61	6726.95	-7279.46	-360.62	1768955.47	14629841.92	40°16'56.0313"N	80°32'20.8108"W	7288.39	182.836	0.17
13368.00	89.110	159.460	5688.97	6818.93	-7365.51	-328.09	1768987.98	14629755.91	40°16'55.1793"N	80°32'20.3969"W	7372.81	182.551	0.38
13459.00	89.320	159.660	5690.21	6909.92	-7450.77	-296.31	1769019.75	14629670.68	40°16'54.3351"N	80°32'19.9926"W	7456.66	182.277	0.32

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
13551.00	89.260	159.900	5691.35	7001.91	-7537.10	-264.52	1769051.53	14629584.39	40°16'53.4805"N	80°32'19.5881"W	7541.74	182.010	0.27
13643.00	89.320	159.550	5692.49	7093.90	-7623.39	-232.64	1769083.40	14629498.13	40°16'52.6261"N	80°32'19.1826"W	7626.94	181.748	0.39
13734.00	89.140	159.590	5693.72	7184.88	-7708.66	-200.88	1769115.15	14629412.90	40°16'51.7819"N	80°32'18.7785"W	7711.27	181.493	0.20
13826.00	89.260	159.700	5695.00	7276.87	-7794.90	-168.88	1769147.13	14629326.68	40°16'50.9280"N	80°32'18.3715"W	7796.73	181.241	0.18
13917.00	89.230	159.400	5696.20	7367.85	-7880.16	-137.09	1769178.91	14629241.46	40°16'50.0839"N	80°32'17.9670"W	7881.35	180.997	0.33
14009.00	89.320	159.510	5697.37	7459.84	-7966.30	-104.81	1769211.18	14629155.35	40°16'49.2310"N	80°32'17.5563"W	7966.99	180.754	0.15
14101.00	89.260	159.580	5698.51	7551.83	-8052.50	-72.66	1769243.32	14629069.19	40°16'48.3776"N	80°32'17.1473"W	8052.82	180.517	0.10
14193.00	89.200	159.360	5699.74	7643.81	-8138.64	-40.40	1769275.57	14628983.07	40°16'47.5246"N	80°32'16.7368"W	8138.74	180.284	0.25
14284.00	89.320	159.430	5700.92	7734.79	-8223.82	-8.37	1769307.58	14628897.93	40°16'46.6813"N	80°32'16.3294"W	8223.82	180.058	0.15
14376.00	89.480	159.090	5701.88	7826.78	-8309.85	24.20	1769340.15	14628811.93	40°16'45.8295"N	80°32'15.9149"W	8309.88	179.833	0.41
14467.00	89.110	158.800	5703.00	7917.75	-8394.77	56.90	1769372.82	14628727.05	40°16'44.9887"N	80°32'15.4988"W	8394.96	179.612	0.52
14559.00	89.230	159.540	5704.33	8009.72	-8480.74	89.61	1769405.52	14628641.10	40°16'44.1374"N	80°32'15.0825"W	8481.22	179.395	0.81
14651.00	89.290	159.580	5705.52	8101.71	-8566.94	121.73	1769437.64	14628554.94	40°16'43.2839"N	80°32'14.6738"W	8567.81	179.186	0.08
14743.00	89.200	159.220	5706.73	8193.69	-8653.05	154.10	1769469.99	14628468.86	40°16'42.4313"N	80°32'14.2621"W	8654.43	178.980	0.40
14834.00	89.380	159.450	5707.86	8284.67	-8738.19	186.21	1769502.09	14628383.75	40°16'41.5884"N	80°32'13.8535"W	8740.18	178.779	0.32
14926.00	89.420	159.580	5708.82	8376.66	-8824.37	218.41	1769534.27	14628297.61	40°16'40.7351"N	80°32'13.4439"W	8827.07	178.582	0.15
15018.00	90.030	159.720	5709.27	8468.66	-8910.63	250.40	1769566.25	14628211.39	40°16'39.8811"N	80°32'13.0370"W	8914.14	178.390	0.68
15109.00	89.420	159.770	5709.70	8559.65	-8996.00	281.90	1769597.74	14628126.05	40°16'39.0359"N	80°32'12.6363"W	9000.41	178.205	0.67
15201.00	89.570	159.510	5710.51	8651.64	-9082.25	313.91	1769629.74	14628039.83	40°16'38.1819"N	80°32'12.2291"W	9087.67	178.020	0.33
15293.00	89.450	159.430	5711.30	8743.63	-9168.40	346.17	1769661.99	14627953.71	40°16'37.3289"N	80°32'11.8187"W	9174.93	177.838	0.16
15384.00	89.420	159.550	5712.20	8834.62	-9253.63	378.05	1769693.86	14627868.52	40°16'36.4851"N	80°32'11.4131"W	9261.35	177.660	0.14
15476.00	89.850	159.530	5712.78	8926.61	-9339.82	410.21	1769726.01	14627782.35	40°16'35.6317"N	80°32'11.0040"W	9348.83	177.485	0.47
15568.00	89.510	159.490	5713.30	9018.61	-9426.00	442.42	1769758.20	14627696.21	40°16'34.7784"N	80°32'10.5944"W	9436.38	177.313	0.37
15659.00	89.540	159.560	5714.05	9109.60	-9511.25	474.25	1769790.01	14627610.99	40°16'33.9344"N	80°32'10.1895"W	9523.06	177.146	0.08
15751.00	89.420	159.250	5714.89	9201.58	-9597.37	506.61	1769822.36	14627524.91	40°16'33.0817"N	80°32'9.7778"W	9610.73	176.978	0.36
15843.00	89.480	159.600	5715.77	9293.57	-9683.49	538.94	1769854.68	14627438.82	40°16'32.2290"N	80°32'9.3665"W	9698.48	176.814	0.39
15935.00	89.480	159.260	5716.60	9385.56	-9769.62	571.26	1769886.99	14627352.72	40°16'31.3762"N	80°32'8.9553"W	9786.31	176.654	0.37
16026.00	89.510	159.280	5717.41	9476.54	-9854.73	603.47	1769919.19	14627267.65	40°16'30.5335"N	80°32'8.5455"W	9873.19	176.496	0.04
16118.00	89.380	159.080	5718.30	9568.52	-9940.72	636.17	1769951.87	14627181.69	40°16'29.6821"N	80°32'8.1294"W	9961.05	176.338	0.26
16210.00	89.600	159.550	5719.12	9660.51	-10026.78	668.66	1769984.36	14627095.66	40°16'28.8300"N	80°32'7.7160"W	10049.05	176.185	0.56

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
16301.00	89.570	159.350	5719.78	9751.50	-10111.99	700.61	1770016.29	14627010.48	40°16'27.9863"N	80°32'7.3097"W	10136.23	176.037	0.22
16393.00	89.540	159.190	5720.49	9843.48	-10198.03	733.17	1770048.84	14626924.47	40°16'27.1344"N	80°32'6.8954"W	10224.35	175.888	0.18
16485.00	89.480	159.690	5721.28	9935.47	-10284.17	765.48	1770081.13	14626838.37	40°16'26.2815"N	80°32'6.4844"W	10312.62	175.743	0.55
16576.00	89.600	159.370	5722.01	10026.46	-10369.42	797.30	1770112.95	14626753.15	40°16'25.4375"N	80°32'6.0796"W	10400.03	175.603	0.38
16668.00	89.570	159.480	5722.67	10118.45	-10455.55	829.63	1770145.26	14626667.06	40°16'24.5847"N	80°32'5.6684"W	10488.41	175.463	0.12
16760.00	89.350	159.350	5723.54	10210.44	-10541.67	861.98	1770177.60	14626580.97	40°16'23.7320"N	80°32'5.2569"W	10576.85	175.325	0.28
16852.00	89.510	159.950	5724.46	10302.43	-10627.92	893.97	1770209.58	14626494.75	40°16'22.8780"N	80°32'4.8500"W	10665.45	175.192	0.67
16944.00	89.970	159.720	5724.87	10394.43	-10714.28	925.68	1770241.28	14626408.42	40°16'22.0229"N	80°32'4.4467"W	10754.20	175.062	0.56
17035.00	89.630	159.650	5725.19	10485.42	-10799.62	957.28	1770272.86	14626323.11	40°16'21.1780"N	80°32'4.0449"W	10841.96	174.935	0.38
17127.00	89.480	159.090	5725.91	10577.41	-10885.72	989.69	1770305.26	14626237.05	40°16'20.3255"N	80°32'3.6326"W	10930.62	174.805	0.63
17219.00	89.420	159.390	5726.79	10669.39	-10971.74	1022.30	1770337.86	14626151.06	40°16'19.4738"N	80°32'3.2177"W	11019.27	174.677	0.33
17311.00	89.450	159.620	5727.70	10761.38	-11057.91	1054.51	1770370.05	14626064.92	40°16'18.6206"N	80°32'2.8081"W	11108.08	174.553	0.25
17402.00	89.850	159.800	5728.25	10852.38	-11143.27	1086.06	1770401.60	14625979.60	40°16'17.7755"N	80°32'2.4068"W	11196.07	174.433	0.48
17494.00	89.750	159.490	5728.57	10944.37	-11229.52	1118.06	1770433.59	14625893.38	40°16'16.9215"N	80°32'1.9998"W	11285.04	174.314	0.35
17587.00	89.540	159.340	5729.15	11037.36	-11316.58	1150.76	1770466.27	14625806.35	40°16'16.0595"N	80°32'1.5839"W	11374.94	174.194	0.28
17679.00	89.570	159.140	5729.86	11129.34	-11402.60	1183.37	1770498.87	14625720.36	40°16'15.2078"N	80°32'1.1690"W	11463.85	174.075	0.22
17771.00	90.340	159.290	5729.94	11221.33	-11488.62	1216.02	1770531.50	14625634.38	40°16'14.3561"N	80°32'0.7537"W	11552.79	173.958	0.85
17862.00	90.090	159.800	5729.60	11312.32	-11573.88	1247.82	1770563.29	14625549.15	40°16'13.5119"N	80°32'0.3492"W	11640.95	173.847	0.62
17954.00	89.630	159.680	5729.82	11404.32	-11660.19	1279.68	1770595.14	14625462.88	40°16'12.6574"N	80°31'59.9441"W	11730.20	173.737	0.52
18046.00	90.950	159.620	5729.35	11496.31	-11746.44	1311.67	1770627.12	14625376.66	40°16'11.8034"N	80°31'59.5373"W	11819.45	173.628	1.44
18138.00	89.350	158.800	5729.11	11588.29	-11832.45	1344.32	1770659.76	14625290.69	40°16'10.9518"N	80°31'59.1219"W	11908.57	173.518	1.95
18229.00	89.480	159.450	5730.04	11679.27	-11917.47	1376.75	1770692.17	14625205.70	40°16'10.1100"N	80°31'58.7094"W	11996.73	173.410	0.73
18321.00	89.480	159.370	5730.88	11771.26	-12003.59	1409.10	1770724.51	14625119.61	40°16'9.2573"N	80°31'58.2978"W	12086.01	173.305	0.09
18413.00	89.660	159.320	5731.57	11863.25	-12089.67	1441.55	1770756.95	14625033.56	40°16'8.4049"N	80°31'57.8851"W	12175.31	173.200	0.20
18504.00	89.780	159.910	5732.01	11954.24	-12174.97	1473.25	1770788.63	14624948.29	40°16'7.5604"N	80°31'57.4820"W	12263.78	173.100	0.66
18596.00	89.510	158.830	5732.58	12046.23	-12261.07	1505.66	1770821.04	14624862.23	40°16'6.7079"N	80°31'57.0697"W	12353.17	172.999	1.21
18688.00	89.450	159.610	5733.42	12138.21	-12347.08	1538.30	1770853.66	14624776.25	40°16'5.8562"N	80°31'56.6545"W	12442.54	172.898	0.85
18779.00	89.480	159.540	5734.27	12229.20	-12432.35	1570.06	1770885.40	14624691.01	40°16'5.0119"N	80°31'56.2507"W	12531.10	172.802	0.08
18871.00	89.540	159.330	5735.05	12321.19	-12518.49	1602.37	1770917.71	14624604.91	40°16'4.1591"N	80°31'55.8397"W	12620.62	172.706	0.24
18963.00	89.510	159.230	5735.82	12413.17	-12604.54	1634.92	1770950.24	14624518.89	40°16'3.3071"N	80°31'55.4256"W	12710.12	172.609	0.11

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
19054.00	89.420	159.450	5736.67	12504.16	-12689.68	1667.03	1770982.34	14624433.78	40°16'2.4641"N	80°31'55.0173"W	12798.71	172.516	0.26
19146.00	89.420	159.160	5737.60	12596.14	-12775.74	1699.54	1771014.84	14624347.75	40°16'1.6119"N	80°31'54.6038"W	12888.29	172.423	0.32
19237.00	89.570	159.330	5738.40	12687.13	-12860.83	1731.78	1771047.07	14624262.70	40°16'0.7694"N	80°31'54.1936"W	12976.90	172.331	0.25
19329.00	89.570	159.090	5739.09	12779.11	-12946.84	1764.44	1771079.71	14624176.72	40°15'59.9178"N	80°31'53.7782"W	13066.52	172.239	0.26
19420.00	89.510	159.720	5739.82	12870.10	-13032.02	1796.45	1771111.71	14624091.57	40°15'59.0744"N	80°31'53.3711"W	13155.25	172.151	0.70
19512.00	89.480	159.370	5740.63	12962.09	-13118.21	1828.60	1771143.85	14624005.41	40°15'58.2210"N	80°31'52.9623"W	13245.05	172.064	0.38
19603.00	89.170	159.220	5741.70	13053.07	-13203.33	1860.77	1771176.00	14623920.33	40°15'57.3782"N	80°31'52.5531"W	13333.81	171.978	0.38
19695.00	89.200	159.450	5743.01	13145.05	-13289.40	1893.23	1771208.46	14623834.29	40°15'56.5260"N	80°31'52.1402"W	13423.58	171.892	0.25
19787.00	89.200	159.300	5744.30	13237.03	-13375.50	1925.63	1771240.85	14623748.23	40°15'55.6735"N	80°31'51.7281"W	13513.40	171.808	0.16
19878.00	89.230	159.520	5745.54	13328.02	-13460.68	1957.63	1771272.83	14623663.08	40°15'54.8301"N	80°31'51.3211"W	13602.28	171.725	0.24
20061.00	89.230	159.410	5748.00	13510.98	-13632.03	2021.82	1771337.00	14623491.79	40°15'53.1335"N	80°31'50.5048"W	13781.15	171.564	0.06
20153.00	89.170	159.240	5749.29	13602.96	-13718.10	2054.30	1771369.46	14623405.76	40°15'52.2813"N	80°31'50.0917"W	13871.06	171.483	0.20
20244.00	89.200	159.020	5750.58	13693.94	-13803.12	2086.72	1771401.87	14623320.77	40°15'51.4394"N	80°31'49.6794"W	13959.96	171.403	0.24
20336.00	89.200	159.420	5751.87	13785.92	-13889.13	2119.35	1771434.49	14623234.79	40°15'50.5878"N	80°31'49.2643"W	14049.89	171.324	0.43
20427.00	89.140	159.200	5753.18	13876.90	-13974.25	2151.50	1771466.63	14623149.70	40°15'49.7450"N	80°31'48.8554"W	14138.90	171.247	0.25
20519.00	89.170	159.240	5754.54	13968.87	-14060.25	2184.14	1771499.25	14623063.73	40°15'48.8934"N	80°31'48.4403"W	14228.89	171.170	0.05
20610.00	89.290	159.360	5755.76	14059.85	-14145.37	2216.30	1771531.40	14622978.65	40°15'48.0506"N	80°31'48.0313"W	14317.94	171.095	0.19
20702.00	89.660	159.350	5756.61	14151.84	-14231.46	2248.74	1771563.82	14622892.59	40°15'47.1982"N	80°31'47.6188"W	14408.03	171.021	0.40
20794.00	89.170	159.080	5757.55	14243.82	-14317.47	2281.38	1771596.46	14622806.62	40°15'46.3466"N	80°31'47.2035"W	14498.09	170.946	0.61
20885.00	89.320	159.290	5758.75	14334.80	-14402.52	2313.72	1771628.78	14622721.59	40°15'45.5044"N	80°31'46.7923"W	14587.18	170.874	0.28
20977.00	89.200	159.390	5759.93	14426.78	-14488.60	2346.17	1771661.22	14622635.55	40°15'44.6521"N	80°31'46.3795"W	14677.33	170.802	0.17
21068.00	89.720	159.640	5760.79	14517.77	-14573.84	2378.02	1771693.06	14622550.34	40°15'43.8081"N	80°31'45.9746"W	14766.58	170.733	0.63
21160.00	89.540	159.080	5761.39	14609.76	-14659.93	2410.45	1771725.47	14622464.28	40°15'42.9557"N	80°31'45.5622"W	14856.78	170.663	0.64
21251.00	89.510	159.360	5762.14	14700.74	-14745.01	2442.73	1771757.74	14622379.24	40°15'42.1133"N	80°31'45.1516"W	14945.98	170.594	0.31
21343.00	89.510	159.330	5762.93	14792.73	-14831.09	2475.18	1771790.18	14622293.19	40°15'41.2609"N	80°31'44.7389"W	15036.22	170.525	0.03
21434.00	89.510	159.050	5763.71	14883.71	-14916.15	2507.51	1771822.50	14622208.16	40°15'40.4187"N	80°31'44.3277"W	15125.45	170.457	0.31
21526.00	89.350	159.560	5764.62	14975.69	-15002.21	2540.02	1771855.00	14622122.13	40°15'39.5665"N	80°31'43.9143"W	15215.72	170.390	0.58
21617.00	89.320	159.460	5765.68	15066.68	-15087.45	2571.87	1771886.84	14622036.93	40°15'38.7226"N	80°31'43.5093"W	15305.09	170.326	0.11
21709.00	89.320	159.360	5766.77	15158.67	-15173.57	2604.22	1771919.18	14621950.85	40°15'37.8699"N	80°31'43.0979"W	15395.42	170.261	0.11
21800.00	89.350	159.290	5767.82	15249.65	-15258.70	2636.35	1771951.29	14621865.74	40°15'37.0269"N	80°31'42.6894"W	15484.77	170.197	0.08

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
21892.00	89.380	159.470	5768.84	15341.63	-15344.80	2668.75	1771983.68	14621779.68	40°15'36.1744"N	80°31'42.2774"W	15575.14	170.134	0.20
21983.00	89.260	159.730	5769.92	15432.62	-15430.09	2700.47	1772015.38	14621694.42	40°15'35.3300"N	80°31'41.8741"W	15664.61	170.073	0.31
22075.00	89.450	159.310	5770.96	15524.61	-15516.27	2732.65	1772047.56	14621608.28	40°15'34.4767"N	80°31'41.4649"W	15755.06	170.012	0.50
22166.00	89.320	159.240	5771.94	15615.59	-15601.37	2764.85	1772079.74	14621523.20	40°15'33.6340"N	80°31'41.0554"W	15844.47	169.950	0.16
22258.00	89.540	159.330	5772.85	15707.58	-15687.42	2797.39	1772112.27	14621437.19	40°15'32.7820"N	80°31'40.6416"W	15934.89	169.889	0.26
22349.00	89.450	159.220	5773.65	15798.56	-15772.53	2829.60	1772144.46	14621352.11	40°15'31.9393"N	80°31'40.2321"W	16024.33	169.829	0.16
22441.00	89.420	159.150	5774.56	15890.54	-15858.52	2862.29	1772177.14	14621266.15	40°15'31.0878"N	80°31'39.8163"W	16114.76	169.769	0.08
22532.00	89.450	159.620	5775.46	15981.53	-15943.69	2894.33	1772209.17	14621181.02	40°15'30.2445"N	80°31'39.4089"W	16204.27	169.711	0.52
22624.00	89.380	158.950	5776.40	16073.51	-16029.74	2926.87	1772241.69	14621095.00	40°15'29.3925"N	80°31'38.9951"W	16294.75	169.652	0.73
22715.00	89.850	160.520	5777.01	16164.50	-16115.10	2958.38	1772273.20	14621009.67	40°15'28.5473"N	80°31'38.5945"W	16384.40	169.598	1.80
22807.00	89.570	160.140	5777.47	16256.50	-16201.73	2989.35	1772304.15	14620923.08	40°15'27.6896"N	80°31'38.2010"W	16475.20	169.546	0.51
22898.00	89.630	160.650	5778.11	16347.50	-16287.45	3019.88	1772334.68	14620837.39	40°15'26.8409"N	80°31'37.8131"W	16565.05	169.496	0.56
22990.00	89.450	160.280	5778.85	16439.49	-16374.15	3050.64	1772365.43	14620750.72	40°15'25.9825"N	80°31'37.4223"W	16655.91	169.446	0.45
23081.00	89.660	160.740	5779.56	16530.49	-16459.93	3081.01	1772395.78	14620664.97	40°15'25.1333"N	80°31'37.0366"W	16745.81	169.398	0.56
23172.00	89.380	160.460	5780.32	16621.48	-16545.76	3111.23	1772425.99	14620579.17	40°15'24.2835"N	80°31'36.6527"W	16835.74	169.351	0.44
23264.00	89.380	160.300	5781.31	16713.48	-16632.42	3142.12	1772456.87	14620492.55	40°15'23.4256"N	80°31'36.2602"W	16926.61	169.302	0.17
23356.00	89.380	160.180	5782.31	16805.47	-16719.00	3173.22	1772487.96	14620406.01	40°15'22.5684"N	80°31'35.8650"W	17017.47	169.253	0.13
23447.00	89.260	160.250	5783.39	16896.47	-16804.62	3204.02	1772518.75	14620320.42	40°15'21.7207"N	80°31'35.4737"W	17107.34	169.205	0.15
23539.00	89.320	160.240	5784.53	16988.46	-16891.20	3235.12	1772549.83	14620233.87	40°15'20.8635"N	80°31'35.0786"W	17198.21	169.158	0.07
23631.00	89.320	160.320	5785.62	17080.45	-16977.80	3266.16	1772580.86	14620147.31	40°15'20.0061"N	80°31'34.6842"W	17289.11	169.111	0.09
23722.00	89.350	160.020	5786.68	17171.45	-17063.39	3297.03	1772611.71	14620061.74	40°15'19.1586"N	80°31'34.2920"W	17379.00	169.064	0.33
23814.00	89.420	160.290	5787.66	17263.44	-17149.92	3328.26	1772642.93	14619975.24	40°15'18.3019"N	80°31'33.8952"W	17469.89	169.017	0.30
23906.00	89.140	160.750	5788.82	17355.43	-17236.65	3358.93	1772673.60	14619888.55	40°15'17.4433"N	80°31'33.5055"W	17560.88	168.973	0.59
23998.00	89.230	159.980	5790.13	17447.42	-17323.29	3389.84	1772704.50	14619801.94	40°15'16.5855"N	80°31'33.1128"W	17651.84	168.928	0.84
24089.00	89.170	160.680	5791.40	17538.41	-17408.97	3420.47	1772735.11	14619716.29	40°15'15.7372"N	80°31'32.7237"W	17741.81	168.884	0.77
24181.00	89.080	160.300	5792.80	17630.40	-17495.68	3451.19	1772765.82	14619629.62	40°15'14.8787"N	80°31'32.3334"W	17832.82	168.841	0.42
24273.00	88.710	160.240	5794.58	17722.38	-17582.26	3482.25	1772796.86	14619543.07	40°15'14.0215"N	80°31'31.9389"W	17923.78	168.797	0.41
24364.00	88.770	160.670	5796.58	17813.36	-17668.00	3512.68	1772827.29	14619457.37	40°15'13.1727"N	80°31'31.5523"W	18013.80	168.755	0.48
24456.00	88.800	160.360	5798.53	17905.34	-17754.71	3543.36	1772857.96	14619370.69	40°15'12.3142"N	80°31'31.1626"W	18104.84	168.714	0.34
24547.00	88.710	160.360	5800.51	17996.32	-17840.40	3573.94	1772888.52	14619285.04	40°15'11.4659"N	80°31'30.7741"W	18194.86	168.672	0.10

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
24639.00	88.740	160.250	5802.55	18088.29	-17926.99	3604.94	1772919.51	14619198.47	40°15'10.6085"N	80°31'30.3803"W	18285.86	168.630	0.12
24731.00	88.680	160.300	5804.63	18180.27	-18013.57	3635.98	1772950.54	14619111.93	40°15'9.7513"N	80°31'29.9859"W	18376.86	168.588	0.08
24822.00	88.860	160.290	5806.58	18271.25	-18099.22	3666.66	1772981.20	14619026.31	40°15'8.9033"N	80°31'29.5962"W	18466.90	168.548	0.20
24914.00	88.890	160.340	5808.39	18363.23	-18185.83	3697.64	1773012.18	14618939.73	40°15'8.0458"N	80°31'29.2026"W	18557.94	168.507	0.06
25005.00	88.980	160.570	5810.08	18454.21	-18271.57	3728.08	1773042.60	14618854.03	40°15'7.1969"N	80°31'28.8160"W	18648.03	168.468	0.27
25097.00	88.980	160.380	5811.71	18546.20	-18358.27	3758.82	1773073.33	14618767.36	40°15'6.3386"N	80°31'28.4255"W	18739.12	168.429	0.21
25189.00	88.860	160.030	5813.45	18638.18	-18444.82	3789.97	1773104.47	14618680.85	40°15'5.4817"N	80°31'28.0297"W	18830.17	168.389	0.40
25280.00	89.140	160.420	5815.04	18729.17	-18530.44	3820.76	1773135.24	14618595.26	40°15'4.6340"N	80°31'27.6386"W	18920.23	168.350	0.53
25372.00	88.980	160.500	5816.55	18821.15	-18617.13	3851.52	1773166.00	14618508.60	40°15'3.7757"N	80°31'27.2478"W	19011.36	168.312	0.19
25464.00	88.710	160.640	5818.40	18913.13	-18703.87	3882.12	1773196.58	14618421.89	40°15'2.9169"N	80°31'26.8592"W	19102.50	168.274	0.33
25562.00	88.980	160.510	5820.38	19011.11	-18796.27	3914.71	1773229.16	14618329.53	40°15'2.0021"N	80°31'26.4454"W	19199.60	168.235	0.31
25751.00	88.950	160.380	5823.79	19200.08	-18974.34	3977.96	1773292.38	14618151.53	40°15'0.2391"N	80°31'25.6420"W	19386.85	168.159	0.07
25847.00	88.980	160.660	5825.52	19296.06	-19064.83	4009.97	1773324.38	14618061.07	40°14'59.3432"N	80°31'25.2354"W	19481.98	168.122	0.29
25942.00	88.860	160.160	5827.31	19391.04	-19154.32	4041.81	1773356.21	14617971.62	40°14'58.4573"N	80°31'24.8309"W	19576.11	168.085	0.54
26037.00	88.830	160.380	5829.23	19486.02	-19243.72	4073.88	1773388.27	14617882.25	40°14'57.5721"N	80°31'24.4236"W	19670.21	168.047	0.23
26131.00	88.770	159.730	5831.20	19580.00	-19332.06	4105.93	1773420.31	14617793.94	40°14'56.6974"N	80°31'24.0163"W	19763.28	168.009	0.69
26225.00	88.830	159.940	5833.17	19673.98	-19420.28	4138.33	1773452.70	14617705.76	40°14'55.8239"N	80°31'23.6046"W	19856.31	167.971	0.23
26321.00	88.830	160.180	5835.13	19769.96	-19510.51	4171.06	1773485.42	14617615.56	40°14'54.9306"N	80°31'23.1887"W	19951.38	167.933	0.25
26415.00	88.830	160.320	5837.05	19863.94	-19598.96	4202.82	1773517.16	14617527.15	40°14'54.0549"N	80°31'22.7853"W	20044.52	167.897	0.15
26510.00	88.890	160.560	5838.94	19958.92	-19688.46	4234.62	1773548.95	14617437.68	40°14'53.1687"N	80°31'22.3814"W	20138.71	167.862	0.26
26604.00	88.860	160.320	5840.78	20052.90	-19777.02	4266.09	1773580.40	14617349.16	40°14'52.2920"N	80°31'21.9818"W	20231.90	167.827	0.26
26698.00	88.770	160.080	5842.73	20146.88	-19865.44	4297.92	1773612.22	14617260.77	40°14'51.4165"N	80°31'21.5774"W	20325.06	167.792	0.27
26793.00	88.800	160.360	5844.74	20241.86	-19954.82	4330.06	1773644.35	14617171.43	40°14'50.5316"N	80°31'21.1691"W	20419.21	167.757	0.30
26888.00	88.770	160.520	5846.76	20336.84	-20044.31	4361.86	1773676.14	14617081.96	40°14'49.6455"N	80°31'20.7653"W	20513.42	167.723	0.17
26982.00	88.710	160.350	5848.82	20430.81	-20132.87	4393.33	1773707.60	14616993.45	40°14'48.7688"N	80°31'20.3656"W	20606.64	167.690	0.19
27076.00	88.610	159.280	5851.02	20524.78	-20221.07	4425.76	1773740.01	14616905.28	40°14'47.8955"N	80°31'19.9535"W	20699.73	167.654	1.14
27170.00	88.710	160.170	5853.22	20618.75	-20309.22	4458.32	1773772.56	14616817.16	40°14'47.0227"N	80°31'19.5397"W	20792.81	167.619	0.95
27264.00	88.770	160.530	5855.29	20712.73	-20397.72	4489.92	1773804.15	14616728.69	40°14'46.1464"N	80°31'19.1383"W	20886.03	167.586	0.39
27359.00	88.980	160.620	5857.15	20807.71	-20487.30	4521.51	1773835.73	14616639.15	40°14'45.2596"N	80°31'18.7372"W	20980.31	167.554	0.24
27453.00	88.980	160.460	5858.82	20901.69	-20575.91	4552.82	1773867.03	14616550.57	40°14'44.3822"N	80°31'18.3396"W	21073.59	167.523	0.17

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
27548.00	89.350	160.180	5860.21	20996.68	-20665.35	4584.81	1773899.00	14616461.16	40°14'43.4967"N	80°31'17.9333"W	21167.84	167.491	0.49
27642.00	89.110	161.000	5861.47	21090.67	-20754.00	4616.05	1773930.23	14616372.55	40°14'42.6190"N	80°31'17.5366"W	21261.15	167.461	0.91
27736.00	89.110	161.240	5862.93	21184.65	-20842.93	4646.46	1773960.63	14616283.65	40°14'41.7386"N	80°31'17.1506"W	21354.57	167.433	0.26
27830.00	89.260	160.900	5864.27	21278.63	-20931.84	4676.95	1773991.11	14616194.78	40°14'40.8584"N	80°31'16.7636"W	21447.98	167.405	0.40
27924.00	89.230	160.850	5865.51	21372.61	-21020.65	4707.75	1774021.89	14616106.01	40°14'39.9792"N	80°31'16.3727"W	21541.36	167.376	0.06
28018.00	89.050	160.280	5866.92	21466.60	-21109.28	4739.02	1774053.15	14616017.41	40°14'39.1017"N	80°31'15.9756"W	21634.69	167.347	0.64
28113.00	89.170	160.660	5868.39	21561.59	-21198.80	4770.77	1774084.90	14615927.92	40°14'38.2154"N	80°31'15.5723"W	21729.00	167.317	0.42
28207.00	89.080	160.900	5869.83	21655.57	-21287.55	4801.71	1774115.83	14615839.20	40°14'37.3367"N	80°31'15.1795"W	21822.38	167.289	0.27
28302.00	89.080	161.270	5871.35	21750.55	-21377.41	4832.51	1774146.61	14615749.38	40°14'36.4471"N	80°31'14.7887"W	21916.82	167.262	0.39
28396.00	89.140	160.260	5872.82	21844.53	-21466.15	4863.47	1774177.56	14615660.67	40°14'35.5685"N	80°31'14.3956"W	22010.20	167.234	1.08
28491.00	89.140	159.070	5874.24	21939.51	-21555.22	4896.48	1774210.55	14615571.64	40°14'34.6866"N	80°31'13.9761"W	22104.37	167.202	1.25
28585.00	89.350	159.410	5875.48	22033.49	-21643.11	4929.79	1774243.86	14615483.78	40°14'33.8164"N	80°31'13.5526"W	22197.45	167.168	0.43
28679.00	89.320	158.550	5876.57	22127.46	-21730.85	4963.51	1774277.56	14615396.08	40°14'32.9475"N	80°31'13.1240"W	22290.49	167.134	0.92
28773.00	89.140	159.080	5877.83	22221.43	-21818.49	4997.48	1774311.51	14615308.47	40°14'32.0797"N	80°31'12.6921"W	22383.50	167.099	0.60
28868.00	89.570	159.120	5878.90	22316.40	-21907.23	5031.36	1774345.39	14615219.76	40°14'31.2010"N	80°31'12.2613"W	22477.57	167.065	0.45
28962.00	89.600	160.060	5879.58	22410.40	-21995.32	5064.14	1774378.15	14615131.70	40°14'30.3287"N	80°31'11.8448"W	22570.77	167.034	1.00
29057.00	89.350	159.140	5880.45	22505.38	-22084.36	5097.26	1774411.25	14615042.70	40°14'29.4470"N	80°31'11.4240"W	22664.97	167.003	1.00
29150.00	89.380	159.010	5881.49	22598.36	-22171.22	5130.47	1774444.45	14614955.87	40°14'28.5869"N	80°31'11.0018"W	22757.08	166.971	0.14
29245.00	88.950	158.870	5882.87	22693.33	-22259.87	5164.60	1774478.58	14614867.26	40°14'27.7091"N	80°31'10.5678"W	22851.14	166.938	0.48
29340.00	88.830	159.090	5884.71	22788.29	-22348.53	5198.67	1774512.63	14614778.63	40°14'26.8312"N	80°31'10.1347"W	22945.22	166.905	0.26
29434.00	89.230	159.340	5886.30	22882.26	-22436.40	5232.02	1774545.97	14614690.79	40°14'25.9611"N	80°31'9.7108"W	23038.36	166.874	0.50
29528.00	89.050	158.870	5887.71	22976.23	-22524.21	5265.55	1774579.48	14614603.02	40°14'25.0916"N	80°31'9.2846"W	23131.49	166.842	0.54
29622.00	89.080	159.440	5889.25	23070.20	-22612.04	5298.99	1774612.91	14614515.22	40°14'24.2218"N	80°31'8.8595"W	23224.64	166.811	0.61
29717.00	89.200	159.380	5890.67	23165.18	-22700.96	5332.40	1774646.30	14614426.33	40°14'23.3414"N	80°31'8.4350"W	23318.84	166.781	0.14
29812.00	89.260	159.470	5891.95	23260.17	-22789.90	5365.78	1774679.67	14614337.43	40°14'22.4608"N	80°31'8.0107"W	23413.05	166.751	0.11
29906.00	89.320	159.680	5893.11	23354.15	-22877.98	5398.58	1774712.46	14614249.38	40°14'21.5886"N	80°31'7.5939"W	23506.31	166.723	0.23
30000.00	89.140	159.930	5894.38	23448.14	-22966.19	5431.03	1774744.90	14614161.20	40°14'20.7151"N	80°31'7.1817"W	23599.62	166.695	0.33
30094.00	89.290	160.790	5895.66	23542.13	-23054.71	5462.62	1774776.48	14614072.72	40°14'19.8387"N	80°31'6.7806"W	23693.04	166.670	0.93
30188.00	89.140	158.370	5896.95	23636.11	-23142.79	5495.41	1774809.26	14613984.67	40°14'18.9666"N	80°31'6.3639"W	23786.31	166.642	2.58
30283.00	89.170	159.720	5898.35	23731.08	-23231.50	5529.38	1774843.21	14613896.00	40°14'18.0882"N	80°31'5.9321"W	23880.46	166.612	1.42

Actual Wellpath Report

State of WV DNR C BRK 606H awp Proj: 31143'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

WELLPATH DATA (340 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]
30376.00	89.080	159.260	5899.77	23824.06	-23318.59	5561.96	1774875.78	14613808.94	40°14'17.2258"N	80°31'5.5181"W	23972.74	166.584	0.50
30471.00	89.200	159.610	5901.20	23919.04	-23407.53	5595.33	1774909.14	14613720.04	40°14'16.3452"N	80°31'5.0941"W	24066.99	166.556	0.39
30565.00	89.050	159.250	5902.64	24013.02	-23495.52	5628.35	1774942.15	14613632.07	40°14'15.4738"N	80°31'4.6744"W	24160.26	166.529	0.41
30659.00	89.140	159.380	5904.12	24107.00	-23583.45	5661.55	1774975.33	14613544.18	40°14'14.6031"N	80°31'4.2525"W	24253.50	166.501	0.17
30753.00	89.010	158.660	5905.64	24200.97	-23671.21	5695.20	1775008.97	14613456.46	40°14'13.7341"N	80°31'3.8248"W	24346.69	166.472	0.78
30847.00	88.980	159.310	5907.29	24294.93	-23758.94	5728.91	1775042.66	14613368.76	40°14'12.8654"N	80°31'3.3963"W	24439.88	166.443	0.69
30942.00	89.050	159.610	5908.92	24389.91	-23847.89	5762.23	1775075.98	14613279.84	40°14'11.9846"N	80°31'2.9728"W	24534.16	166.416	0.32
31036.00	89.050	159.420	5910.48	24483.89	-23935.93	5795.13	1775108.86	14613191.83	40°14'11.1128"N	80°31'2.5549"W	24627.47	166.390	0.20
31118.00	89.050	159.590	5911.84	24565.87	-24012.73	5823.83	1775137.55	14613115.06	40°14'10.3524"N	80°31'2.1902"W	24708.87	166.367	0.21
31143.00†	89.050	159.590	5912.25	24590.87	-24036.16	5832.55	1775146.27	14613091.64	40°14'10.1204"N	80°31'2.0794"W	24733.69	166.360	0.00

HOLE & CASING SECTIONS - Ref Wellbore: State of WV DNR C BRK 606H AWB Ref Wellpath: State of WV DNR C BRK 606H awp Proj: 31143'

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]
13.375in Casing	26.00	448.00	422.00	26.00	448.00	0.00	0.00	-0.05	-0.13
9.625in Casing	26.00	2025.00	1999.00	26.00	1958.33	0.00	0.00	-59.92	-381.23
5.5in Casing	26.00	31143.00	31117.00	26.00	5912.25	0.00	0.00	-24036.16	5832.55

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	State of WV DNR C BRK 606H
Field	Brooke	API	47-009-00343-00-00
Facility	State of WV DNR C BRK Pad	Wellbore	State of WV DNR C BRK 606H AWB
Slot	606H		

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
DNR C BRK 606H LP rev 2	5620.00	-1039.29	-2442.62	1766874.27	14636079.71	40°17'57.8010"N	80°32'47.2621"W	point
DNR C BRK 606H wp1	5683.00	-6359.87	-695.53	1768620.69	14630761.17	40°17'5.1357"N	80°32'25.0705"W	point
DNR C BRK 606H wp2	5768.00	-12800.66	1710.39	1771025.69	14624322.84	40°16'1.3651"N	80°31'54.4654"W	point
DNR C BRK 606H BHL rev 2	5924.00	-24036.11	5834.12	1775147.84	14613091.70	40°14'10.1209"N	80°31'2.0591"W	point

WELLPATH COMPOSITION - Ref Wellbore: State of WV DNR C BRK 606H AWB Ref Wellpath: State of WV DNR C BRK 606H awp Proj: 31143'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	381.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	1 Total MWD 17.5" IFR-MSA 178' - 381'	State of WV DNR C BRK 606H AWB	7/25/2024
381.00	1944.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	2 Total MWD 12.25" IFR-MSA 466' - 1944'	State of WV DNR C BRK 606H AWB	7/25/2024
1944.00	31143.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	3 BH MWD 8.5" IFR-MSA 2040' - 31118'	State of WV DNR C BRK 606H AWB	7/25/2024

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