



SWN PRODUCTION COMPANY, LLC



Location: Brooke County, WV

Field: Brooke

Facility: State of WV DNR C BRK Pad

Slot: 806H

Well: STATE OF WV DNR C BRK 806H

Wellbore: STATE OF WV DNR C BRK 806H AWB

Plot reference wellpath is STATE OF WV DNR C BRK 806H awp Proj: 27671'

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: 806H): -989 feet

Depths are in feet

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

Created by: tranlam on 2024-08-14; 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
806H	-71.30	25.24	1769320.560	14637105.280	40°18'7.8142"N	80°32'15.6091"W
SDC 501 (KB) to Ground level (At Slot: 806H)					26ft	
Mean Sea Level to Ground level (At Slot: 806H)					-989ft	
SDC 501 (KB) to Mean Sea Level					1015ft	

Bottom Hole Location

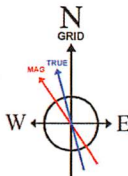
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
27671.00	88.650	159.920	5869.34	-20685.21	3679.09	1772998.24	14616428.00	40°14'43.2167"N	80°31'29.5560"W

API: 47009003440000
BH JOB: 112302118
DURATION: 8.8.2024 to 8.13.2024
RIG: SDC 501

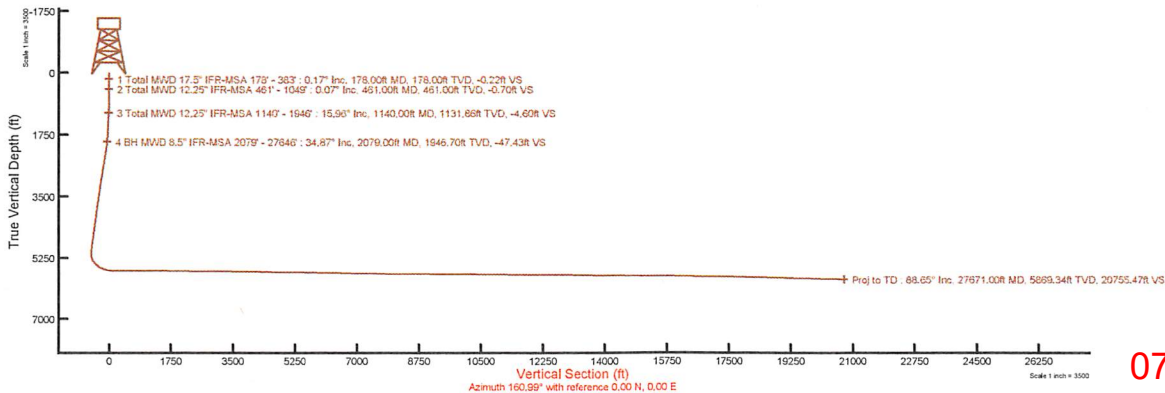
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User specified Dip: 67.08° Field: 51806 nT
Magnetic North is 8.90 degrees West of True North (at 8/3/2024)
Grid North is 0.30 degrees East of True North
To correct azimuth from True to Grid subtract 0.30 degrees
To correct azimuth from Magnetic to Grid subtract 9.20 degrees



07/25/2025

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

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	8/14/2024 at 9:15:59 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	-71.30	25.24	1769320.56	14637105.28	40°18'7.8142"N	80°32'15.6091"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 (806H)	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	160.99°

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Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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	331.240	0.00	0.00	0.00	0.00	1769320.56	14637105.28	40°18'7.8142"N	80°32'15.6091"W	0.00	0.000	0.00
26.00	0.000	331.240	26.00	0.00	0.00	0.00	1769320.56	14637105.28	40°18'7.8142"N	80°32'15.6091"W	0.00	0.000	0.00
178.00	0.170	331.240	178.00	-0.22	0.20	-0.11	1769320.45	14637105.48	40°18'7.8161"N	80°32'15.6105"W	0.23	331.240	0.11
238.00	0.180	57.790	238.00	-0.33	0.33	-0.07	1769320.49	14637105.61	40°18'7.8174"N	80°32'15.6100"W	0.33	347.614	0.40
328.00	0.240	10.260	328.00	-0.53	0.59	0.08	1769320.64	14637105.87	40°18'7.8200"N	80°32'15.6080"W	0.59	7.918	0.20
383.00	0.360	67.220	383.00	-0.64	0.77	0.26	1769320.82	14637106.05	40°18'7.8217"N	80°32'15.6056"W	0.81	18.821	0.55
461.00	0.070	8.360	461.00	-0.70	0.91	0.49	1769321.05	14637106.19	40°18'7.8231"N	80°32'15.6026"W	1.03	28.535	0.42
506.00	0.240	73.870	506.00	-0.72	0.96	0.59	1769321.15	14637106.24	40°18'7.8237"N	80°32'15.6014"W	1.13	31.459	0.49
597.00	2.840	248.040	596.96	-0.59	0.17	-1.32	1769319.24	14637105.45	40°18'7.8159"N	80°32'15.6261"W	1.33	277.434	3.38
687.00	6.360	248.370	686.66	-0.25	-2.50	-8.02	1769312.54	14637102.78	40°18'7.7899"N	80°32'15.7128"W	8.40	252.693	3.91
778.00	8.140	247.880	776.93	0.33	-6.78	-18.68	1769301.89	14637098.50	40°18'7.7481"N	80°32'15.8506"W	19.87	250.038	1.96
869.00	9.490	248.020	866.85	1.07	-12.02	-31.60	1769288.97	14637093.27	40°18'7.6970"N	80°32'16.0178"W	33.81	249.179	1.48
959.00	10.600	253.600	955.47	1.08	-17.13	-46.43	1769274.15	14637088.15	40°18'7.6473"N	80°32'16.2094"W	49.49	249.744	1.64
1049.00	12.460	258.230	1043.65	-0.52	-21.45	-63.87	1769256.71	14637083.84	40°18'7.6055"N	80°32'16.4349"W	67.38	251.436	2.31
1140.00	15.960	264.100	1131.86	-4.60	-24.74	-85.94	1769234.66	14637080.55	40°18'7.5741"N	80°32'16.7199"W	89.43	253.939	4.15
1231.00	20.980	264.330	1218.15	-11.20	-27.64	-114.61	1769205.99	14637077.65	40°18'7.5470"N	80°32'17.0902"W	117.90	256.442	5.52
1321.00	24.600	259.790	1301.11	-17.79	-32.55	-149.09	1769171.52	14637072.74	40°18'7.5002"N	80°32'17.5355"W	152.61	257.684	4.47
1412.00	24.940	254.200	1383.75	-21.76	-41.13	-186.20	1769134.43	14637064.16	40°18'7.4173"N	80°32'18.0150"W	190.69	257.543	2.60
1502.00	25.570	252.480	1465.15	-23.33	-52.15	-222.98	1769097.66	14637053.15	40°18'7.3104"N	80°32'18.4905"W	229.00	256.837	1.07
1593.00	28.330	254.900	1546.26	-25.31	-63.69	-262.56	1769058.10	14637041.62	40°18'7.1984"N	80°32'19.0022"W	270.18	256.366	3.26
1683.00	32.650	255.100	1623.80	-28.51	-75.50	-306.66	1769014.01	14637029.81	40°18'7.0839"N	80°32'19.5721"W	315.82	256.169	4.80
1774.00	35.670	255.180	1699.09	-32.21	-88.60	-356.05	1768964.65	14637016.71	40°18'6.9570"N	80°32'20.2104"W	366.91	256.026	3.32
1864.00	35.950	255.020	1772.08	-35.98	-102.14	-406.93	1768913.78	14637003.18	40°18'6.8258"N	80°32'20.8681"W	419.56	255.910	0.33
1946.00	36.090	256.030	1838.40	-39.80	-114.19	-453.62	1768867.11	14636991.13	40°18'6.7091"N	80°32'21.4715"W	467.78	255.870	0.74
2079.00	34.870	257.320	1946.70	-47.43	-132.00	-528.73	1768792.03	14636973.33	40°18'6.5370"N	80°32'22.4421"W	544.96	255.983	1.08
2170.00	34.990	263.190	2021.33	-55.81	-140.80	-580.03	1768740.75	14636964.53	40°18'6.4527"N	80°32'23.1048"W	596.88	256.355	3.69
2261.00	34.940	263.770	2095.91	-67.09	-146.72	-631.85	1768688.96	14636958.61	40°18'6.3968"N	80°32'23.7739"W	648.66	256.927	0.37
2351.00	34.930	263.710	2169.69	-78.47	-152.34	-683.08	1768637.74	14636952.99	40°18'6.3439"N	80°32'24.4354"W	699.86	257.427	0.04
2442.00	34.870	263.780	2244.32	-89.96	-158.02	-734.83	1768586.01	14636947.32	40°18'6.2905"N	80°32'25.1038"W	751.63	257.864	0.08
2532.00	34.920	263.690	2318.14	-101.32	-163.64	-786.01	1768534.85	14636941.71	40°18'6.2376"N	80°32'25.7647"W	802.86	258.240	0.08

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
2623.00	34.950	263.900	2392.74	-112.87	-169.27	-837.82	1768483.06	14636936.08	40°18'6.1846"N	80°32'26.4337"W	854.75	258.578	0.14
2714.00	34.730	263.560	2467.43	-124.33	-174.95	-889.49	1768431.41	14636930.40	40°18'6.1311"N	80°32'27.1011"W	906.53	258.873	0.32
2804.00	35.850	263.970	2540.89	-135.83	-180.59	-941.18	1768379.74	14636924.76	40°18'6.0780"N	80°32'27.7685"W	958.35	259.138	1.27
2894.00	37.280	264.030	2613.17	-147.90	-186.19	-994.50	1768326.44	14636919.16	40°18'6.0254"N	80°32'28.4571"W	1011.78	259.396	1.59
2984.00	37.250	264.000	2684.80	-160.19	-191.88	-1048.70	1768272.26	14636913.48	40°18'5.9720"N	80°32'29.1570"W	1066.11	259.632	0.04
3074.00	37.300	264.090	2756.42	-172.50	-197.53	-1102.91	1768218.07	14636907.83	40°18'5.9189"N	80°32'29.8570"W	1120.46	259.846	0.08
3166.00	37.100	264.160	2829.70	-185.14	-203.22	-1158.24	1768162.76	14636902.13	40°18'5.8655"N	80°32'30.5715"W	1175.94	260.048	0.22
3257.00	37.210	262.210	2902.23	-196.75	-209.75	-1212.81	1768108.21	14636895.61	40°18'5.8038"N	80°32'31.2763"W	1230.81	260.188	1.30
3345.00	37.190	262.050	2972.32	-207.03	-217.03	-1265.51	1768055.53	14636888.33	40°18'5.7345"N	80°32'31.9570"W	1283.99	260.269	0.11
3435.00	37.370	262.110	3043.93	-217.51	-224.54	-1319.51	1768001.56	14636880.82	40°18'5.6630"N	80°32'32.6543"W	1338.48	260.342	0.20
3526.00	37.150	261.650	3116.36	-227.92	-232.32	-1374.05	1767947.04	14636873.04	40°18'5.5889"N	80°32'33.3588"W	1393.55	260.403	0.39
3616.00	37.140	261.950	3188.10	-238.11	-240.08	-1427.84	1767893.27	14636865.30	40°18'5.5151"N	80°32'34.0535"W	1447.88	260.456	0.20
3707.00	37.160	261.890	3260.63	-248.53	-247.80	-1482.25	1767838.88	14636857.58	40°18'5.4415"N	80°32'34.7563"W	1502.82	260.509	0.05
3797.00	37.270	262.360	3332.31	-259.04	-255.26	-1536.17	1767784.98	14636850.12	40°18'5.3706"N	80°32'35.4527"W	1557.23	260.566	0.34
3888.00	36.950	261.640	3404.88	-269.53	-262.90	-1590.54	1767730.63	14636842.48	40°18'5.2978"N	80°32'36.1549"W	1612.12	260.615	0.59
3978.00	37.260	262.290	3476.66	-279.87	-270.48	-1644.30	1767676.89	14636834.90	40°18'5.2256"N	80°32'36.8493"W	1666.40	260.659	0.56
4069.00	37.220	262.130	3549.10	-290.58	-277.95	-1698.86	1767622.35	14636827.44	40°18'5.1546"N	80°32'37.5539"W	1721.45	260.708	0.12
4159.00	36.990	261.820	3620.88	-300.93	-285.53	-1752.62	1767568.61	14636819.86	40°18'5.0825"N	80°32'38.2483"W	1775.73	260.747	0.33
4250.00	37.100	261.370	3693.51	-311.02	-293.54	-1806.86	1767514.40	14636811.85	40°18'5.0060"N	80°32'38.9488"W	1830.54	260.772	0.32
4340.00	37.250	261.530	3765.22	-320.89	-301.63	-1860.63	1767460.64	14636803.77	40°18'4.9289"N	80°32'39.6434"W	1884.92	260.792	0.20
4430.00	36.860	261.330	3837.05	-330.72	-309.71	-1914.26	1767407.03	14636795.69	40°18'4.8517"N	80°32'40.3361"W	1939.15	260.810	0.45
4522.00	37.120	261.460	3910.53	-340.72	-317.99	-1968.99	1767352.32	14636787.41	40°18'4.7727"N	80°32'41.0430"W	1994.50	260.826	0.30
4610.00	37.040	261.220	3980.74	-350.25	-325.98	-2021.44	1767299.89	14636779.43	40°18'4.6964"N	80°32'41.7205"W	2047.56	260.839	0.19
4700.00	37.210	261.270	4052.50	-359.92	-334.25	-2075.13	1767246.22	14636771.16	40°18'4.6174"N	80°32'42.4140"W	2101.88	260.850	0.19
4792.00	36.530	261.080	4126.10	-369.68	-342.72	-2129.68	1767191.70	14636762.70	40°18'4.5365"N	80°32'43.1186"W	2157.08	260.858	0.75
4882.00	36.930	261.420	4198.23	-379.27	-350.90	-2182.88	1767138.52	14636754.51	40°18'4.4583"N	80°32'43.8057"W	2210.90	260.868	0.50
4972.00	37.220	261.200	4270.03	-388.99	-359.10	-2236.51	1767084.91	14636746.32	40°18'4.3800"N	80°32'44.4984"W	2265.16	260.878	0.35
5067.00	37.150	261.260	4345.72	-399.20	-367.85	-2293.26	1767028.18	14636737.57	40°18'4.2964"N	80°32'45.2314"W	2322.57	260.887	0.08
5159.00	37.370	261.250	4418.94	-409.12	-376.32	-2348.31	1766973.15	14636729.10	40°18'4.2155"N	80°32'45.9425"W	2378.27	260.896	0.24
5250.00	37.160	261.380	4491.36	-419.00	-384.64	-2402.78	1766918.70	14636720.78	40°18'4.1360"N	80°32'46.6460"W	2433.37	260.905	0.25

Actual Wellpath Report

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5342.00	37.310	261.610	4564.61	-429.15	-392.88	-2457.83	1766863.67	14636712.55	40°18'4.0575"N	80°32'47.3572"W	2489.03	260.918	0.22
5434.00	37.210	261.360	4637.83	-439.29	-401.12	-2512.92	1766808.60	14636704.31	40°18'3.9787"N	80°32'48.0687"W	2544.73	260.931	0.20
5525.00	36.550	261.200	4710.62	-449.05	-409.40	-2566.90	1766754.64	14636696.03	40°18'3.8997"N	80°32'48.7659"W	2599.34	260.938	0.73
5617.00	36.550	260.970	4784.53	-458.65	-417.89	-2621.03	1766700.54	14636687.55	40°18'3.8185"N	80°32'49.4650"W	2654.13	260.941	0.15
5709.00	36.640	260.990	4858.39	-468.17	-426.49	-2675.19	1766646.39	14636678.95	40°18'3.7363"N	80°32'50.1647"W	2708.98	260.942	0.10
5800.00	36.420	260.880	4931.52	-477.52	-435.03	-2728.68	1766592.92	14636670.42	40°18'3.6546"N	80°32'50.8556"W	2763.14	260.942	0.25
5892.00	36.550	260.190	5005.49	-486.59	-444.02	-2782.64	1766538.98	14636661.43	40°18'3.5685"N	80°32'51.5526"W	2817.85	260.934	0.47
5984.00	36.560	257.100	5079.40	-493.89	-454.81	-2836.35	1766485.30	14636650.65	40°18'3.4646"N	80°32'52.2465"W	2872.58	260.890	2.00
6075.00	36.490	246.480	5152.60	-494.65	-471.67	-2887.63	1766434.04	14636633.79	40°18'3.3005"N	80°32'52.9095"W	2925.90	260.723	6.94
6167.00	38.520	233.730	5225.69	-483.98	-499.58	-2935.89	1766385.80	14636605.89	40°18'3.0271"N	80°32'53.5341"W	2978.09	260.343	8.71
6258.00	41.530	220.630	5295.49	-460.28	-539.32	-2978.47	1766343.23	14636566.16	40°18'2.6366"N	80°32'54.0863"W	3026.90	259.736	9.81
6350.00	46.090	208.760	5361.98	-422.50	-591.64	-3014.35	1766307.36	14636513.87	40°18'2.1215"N	80°32'54.5529"W	3071.86	258.896	10.20
6441.00	51.240	198.900	5422.14	-372.38	-654.07	-3041.67	1766280.05	14636451.46	40°18'1.5059"N	80°32'54.9096"W	3111.20	257.864	9.90
6533.00	55.830	191.820	5476.85	-311.31	-725.35	-3061.11	1766260.62	14636380.20	40°18'0.8025"N	80°32'55.1652"W	3145.88	256.669	7.95
6624.00	62.740	184.710	5523.35	-241.81	-802.68	-3072.17	1766249.57	14636302.91	40°18'0.0389"N	80°32'55.3129"W	3175.30	255.357	10.13
6716.00	69.040	180.870	5560.92	-163.87	-886.49	-3076.18	1766245.55	14636219.13	40°17'59.2109"N	80°32'55.3703"W	3201.37	253.924	7.83
6808.00	76.010	175.720	5588.55	-80.15	-974.12	-3073.50	1766248.24	14636131.54	40°17'58.3449"N	80°32'55.3414"W	3224.18	252.414	9.27
6900.00	82.590	168.360	5605.64	8.47	-1063.52	-3060.93	1766260.80	14636042.16	40°17'57.4608"N	80°32'55.1851"W	3240.43	250.840	10.62
6991.00	89.110	164.350	5612.23	98.77	-1151.65	-3039.53	1766282.20	14635954.07	40°17'56.5888"N	80°32'54.9146"W	3250.39	249.249	8.40
7083.00	89.970	164.120	5612.96	190.62	-1240.19	-3014.53	1766307.18	14635865.57	40°17'55.7127"N	80°32'54.5979"W	3259.67	247.638	0.97
7175.00	89.910	164.280	5613.06	282.47	-1328.71	-2989.48	1766332.22	14635777.08	40°17'54.8366"N	80°32'54.2804"W	3271.47	246.037	0.19
7266.00	90.030	164.650	5613.11	373.31	-1416.39	-2965.11	1766356.59	14635689.43	40°17'53.9690"N	80°32'53.9716"W	3286.04	244.467	0.43
7358.00	89.820	164.100	5613.23	465.15	-1504.99	-2940.33	1766381.36	14635600.87	40°17'53.0923"N	80°32'53.6577"W	3303.11	242.895	0.64
7449.00	89.200	164.470	5614.01	555.99	-1592.58	-2915.68	1766405.99	14635513.31	40°17'52.2255"N	80°32'53.3453"W	3322.28	241.356	0.79
7541.00	89.380	164.170	5615.15	647.83	-1681.15	-2890.82	1766430.85	14635424.77	40°17'51.3490"N	80°32'53.0303"W	3344.12	239.820	0.38
7632.00	89.750	164.440	5615.84	738.67	-1768.76	-2866.21	1766455.45	14635337.20	40°17'50.4821"N	80°32'52.7184"W	3368.03	238.321	0.50
7724.00	89.780	164.390	5616.22	830.51	-1857.37	-2841.49	1766480.16	14635248.62	40°17'49.6051"N	80°32'52.4052"W	3394.69	236.829	0.06
7816.00	89.820	164.150	5616.54	922.36	-1945.93	-2816.55	1766505.09	14635160.10	40°17'48.7288"N	80°32'52.0892"W	3423.39	235.360	0.26
7907.00	89.600	165.000	5617.00	1013.18	-2033.65	-2792.34	1766529.29	14635072.41	40°17'47.8608"N	80°32'51.7826"W	3454.40	233.934	0.96
7999.00	89.850	164.250	5617.44	1104.99	-2122.35	-2767.95	1766553.67	14634983.74	40°17'46.9830"N	80°32'51.4737"W	3487.97	232.520	0.86

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
8091.00	89.820	164.080	5617.70	1196.85	-2210.86	-2742.85	1766578.76	14634895.27	40°17'46.1071"N	80°32'51.1555"W	3522.94	231.130	0.19
8182.00	89.880	164.280	5617.94	1287.71	-2298.41	-2718.04	1766603.56	14634807.75	40°17'45.2407"N	80°32'50.8411"W	3559.56	229.782	0.23
8274.00	89.570	163.910	5618.38	1379.57	-2386.89	-2692.83	1766628.76	14634719.30	40°17'44.3651"N	80°32'50.5216"W	3598.41	228.447	0.52
8366.00	89.290	163.530	5619.30	1471.46	-2475.20	-2667.04	1766654.54	14634631.03	40°17'43.4912"N	80°32'50.1946"W	3638.64	227.137	0.51
8458.00	89.850	163.600	5619.99	1563.37	-2563.44	-2641.01	1766680.56	14634542.83	40°17'42.6179"N	80°32'49.8645"W	3680.51	225.854	0.61
8549.00	89.450	163.310	5620.55	1654.28	-2650.67	-2615.10	1766706.46	14634455.63	40°17'41.7546"N	80°32'49.5359"W	3723.54	224.613	0.54
8641.00	89.820	162.180	5621.13	1746.23	-2738.52	-2587.81	1766733.74	14634367.81	40°17'40.8851"N	80°32'49.1895"W	3767.79	223.379	1.29
8733.00	90.030	166.030	5621.25	1838.08	-2826.99	-2562.62	1766758.92	14634279.37	40°17'40.0096"N	80°32'48.8702"W	3815.61	222.192	4.19
8825.00	89.320	167.470	5621.77	1929.61	-2916.53	-2541.53	1766780.00	14634189.86	40°17'39.1237"N	80°32'48.6040"W	3868.53	221.070	1.75
8916.00	89.200	167.050	5622.95	2020.06	-3005.29	-2521.47	1766800.06	14634101.14	40°17'38.2456"N	80°32'48.3509"W	3922.95	219.997	0.48
9008.00	89.200	167.660	5624.23	2111.48	-3095.05	-2501.33	1766820.19	14634011.42	40°17'37.3577"N	80°32'48.0970"W	3979.44	218.944	0.66
9100.00	89.110	167.060	5625.59	2202.90	-3184.81	-2481.20	1766840.31	14633921.69	40°17'36.4697"N	80°32'47.8431"W	4037.24	217.921	0.66
9192.00	89.420	167.630	5626.77	2294.33	-3274.56	-2461.04	1766860.46	14633831.97	40°17'35.5817"N	80°32'47.5890"W	4096.28	216.927	0.71
9283.00	89.290	167.160	5627.79	2384.76	-3363.36	-2441.19	1766880.31	14633743.20	40°17'34.7032"N	80°32'47.3386"W	4155.91	215.973	0.54
9375.00	89.720	167.270	5628.59	2476.21	-3453.08	-2420.83	1766900.66	14633653.52	40°17'33.8156"N	80°32'47.0818"W	4217.13	215.033	0.48
9467.00	90.520	166.990	5628.40	2567.68	-3542.77	-2400.34	1766921.14	14633563.87	40°17'32.9283"N	80°32'46.8233"W	4279.35	214.119	0.92
9559.00	88.890	163.360	5628.87	2659.42	-3631.69	-2376.80	1766944.67	14633474.99	40°17'32.0484"N	80°32'46.5255"W	4340.31	213.203	4.33
9650.00	89.380	164.620	5630.24	2750.28	-3719.14	-2351.71	1766969.75	14633387.56	40°17'31.1829"N	80°32'46.2074"W	4400.29	212.306	1.49
9742.00	89.450	164.530	5631.18	2842.09	-3807.83	-2327.24	1766994.21	14633298.91	40°17'30.3054"N	80°32'45.8975"W	4462.69	211.432	0.12
9834.00	89.320	164.500	5632.17	2933.91	-3896.48	-2302.68	1767018.76	14633210.29	40°17'29.4281"N	80°32'45.5864"W	4526.02	210.582	0.15
9926.00	89.350	164.250	5633.24	3025.75	-3985.07	-2277.90	1767043.53	14633121.73	40°17'28.5513"N	80°32'45.2725"W	4590.17	209.753	0.27
10017.00	89.200	164.530	5634.39	3116.58	-4072.71	-2253.42	1767068.01	14633034.13	40°17'27.6841"N	80°32'44.9624"W	4654.55	208.956	0.35
10109.00	89.320	164.620	5635.58	3208.39	-4161.39	-2228.95	1767092.47	14632945.48	40°17'26.8066"N	80°32'44.6525"W	4720.74	208.175	0.16
10201.00	89.380	164.700	5636.62	3300.20	-4250.11	-2204.61	1767116.79	14632856.80	40°17'25.9287"N	80°32'44.3443"W	4787.87	207.417	0.11
10293.00	89.600	164.680	5637.44	3392.00	-4338.84	-2180.32	1767141.07	14632768.10	40°17'25.0506"N	80°32'44.0367"W	4855.85	206.680	0.24
10385.00	89.230	164.290	5638.38	3483.83	-4427.48	-2155.71	1767165.67	14632679.50	40°17'24.1734"N	80°32'43.7250"W	4924.40	205.961	0.58
10476.00	89.350	164.380	5639.51	3574.66	-4515.09	-2131.14	1767190.23	14632591.92	40°17'23.3064"N	80°32'43.4138"W	4992.78	205.268	0.16
10568.00	89.260	164.500	5640.62	3666.49	-4603.72	-2106.47	1767214.90	14632503.33	40°17'22.4294"N	80°32'43.1012"W	5062.75	204.587	0.16
10660.00	89.290	164.600	5641.79	3758.31	-4692.38	-2081.96	1767239.40	14632414.69	40°17'21.5520"N	80°32'42.7909"W	5133.52	203.926	0.11
10751.00	89.110	164.560	5643.06	3849.12	-4780.10	-2057.77	1767263.58	14632327.01	40°17'20.6840"N	80°32'42.4845"W	5204.21	203.291	0.20

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
10843.00	89.050	164.010	5644.54	3940.95	-4868.65	-2032.85	1767288.49	14632238.50	40°17'19.8077"N	80°32'42.1688"W	5276.00	202.662	0.60
10935.00	88.890	164.310	5646.19	4032.80	-4957.14	-2007.74	1767313.59	14632150.04	40°17'18.9320"N	80°32'41.8507"W	5348.30	202.049	0.37
11026.00	89.230	161.160	5647.68	4123.73	-5044.02	-1980.74	1767340.58	14632063.19	40°17'18.0721"N	80°32'41.5081"W	5418.99	201.440	3.48
11118.00	89.140	160.960	5648.99	4215.72	-5131.03	-1950.88	1767370.42	14631976.22	40°17'17.2108"N	80°32'41.1285"W	5489.39	200.817	0.24
11210.00	89.050	161.430	5650.44	4307.71	-5218.11	-1921.23	1767400.06	14631889.17	40°17'16.3488"N	80°32'40.7517"W	5560.55	200.213	0.52
11301.00	89.080	160.500	5651.93	4398.70	-5304.12	-1891.56	1767429.73	14631803.19	40°17'15.4974"N	80°32'40.3745"W	5631.31	199.627	1.02
11393.00	88.920	161.070	5653.54	4490.68	-5390.98	-1861.28	1767459.99	14631716.37	40°17'14.6375"N	80°32'39.9896"W	5703.25	199.048	0.64
11485.00	88.920	161.390	5655.27	4582.67	-5478.07	-1831.69	1767489.58	14631629.31	40°17'13.7754"N	80°32'39.6134"W	5776.19	198.488	0.35
11576.00	89.290	161.490	5656.69	4673.65	-5564.33	-1802.72	1767518.53	14631543.08	40°17'12.9215"N	80°32'39.2455"W	5849.06	197.951	0.42
11668.00	89.320	161.220	5657.81	4765.64	-5651.49	-1773.31	1767547.93	14631455.95	40°17'12.0587"N	80°32'38.8717"W	5923.18	197.421	0.30
11760.00	89.290	161.360	5658.92	4857.63	-5738.62	-1743.80	1767577.42	14631368.85	40°17'11.1962"N	80°32'38.4968"W	5997.72	196.903	0.16
11851.00	89.320	161.320	5660.03	4948.63	-5824.83	-1714.69	1767606.53	14631282.68	40°17'10.3428"N	80°32'38.1268"W	6071.97	196.403	0.05
11943.00	89.320	161.430	5661.12	5040.62	-5912.01	-1685.31	1767635.89	14631195.53	40°17'9.4799"N	80°32'37.7535"W	6147.53	195.911	0.12
12035.00	89.290	161.480	5662.23	5132.61	-5999.23	-1656.05	1767665.14	14631108.35	40°17'8.6165"N	80°32'37.3818"W	6223.60	195.432	0.06
12126.00	89.260	161.360	5663.39	5223.60	-6085.48	-1627.06	1767694.12	14631022.13	40°17'7.7628"N	80°32'37.0134"W	6299.23	194.969	0.14
12218.00	89.290	161.520	5664.55	5315.59	-6172.68	-1597.78	1767723.39	14630934.96	40°17'6.8995"N	80°32'36.6414"W	6376.12	194.512	0.18
12310.00	89.260	161.310	5665.71	5407.58	-6259.88	-1568.46	1767752.70	14630847.80	40°17'6.0364"N	80°32'36.2688"W	6453.38	194.066	0.23
12402.00	88.890	160.760	5667.20	5499.57	-6346.87	-1538.56	1767782.59	14630760.84	40°17'5.1752"N	80°32'35.8889"W	6530.70	193.626	0.72
12493.00	89.480	158.400	5668.49	5590.52	-6432.14	-1506.82	1767814.32	14630675.60	40°17'4.3310"N	80°32'35.4849"W	6606.28	193.185	2.67
12585.00	89.230	158.410	5669.53	5682.42	-6517.68	-1472.96	1767848.16	14630590.10	40°17'3.4840"N	80°32'35.0538"W	6682.05	192.735	0.27
12677.00	88.770	158.110	5671.14	5774.30	-6603.12	-1438.89	1767882.22	14630504.69	40°17'2.6380"N	80°32'34.6198"W	6758.08	192.293	0.60
12769.00	88.980	158.460	5672.94	5866.18	-6688.58	-1404.86	1767916.24	14630419.27	40°17'1.7918"N	80°32'34.1864"W	6834.52	191.862	0.44
12860.00	88.980	158.100	5674.56	5957.07	-6773.10	-1371.19	1767949.90	14630334.77	40°17'0.9548"N	80°32'33.7576"W	6910.50	191.445	0.40
12952.00	88.980	158.070	5676.20	6048.93	-6858.44	-1336.86	1767984.22	14630249.47	40°17'0.1098"N	80°32'33.3203"W	6987.52	191.030	0.03
13044.00	89.140	160.260	5677.71	6140.87	-6944.41	-1304.14	1768016.92	14630163.53	40°16'59.2586"N	80°32'32.9039"W	7065.80	190.636	2.39
13136.00	88.980	159.800	5679.22	6232.84	-7030.86	-1272.72	1768048.32	14630077.11	40°16'58.4027"N	80°32'32.5043"W	7145.13	190.261	0.53
13227.00	89.080	159.770	5680.76	6323.81	-7116.25	-1241.28	1768079.75	14629991.76	40°16'57.5573"N	80°32'32.1043"W	7223.69	189.895	0.11
13319.00	89.420	160.150	5681.96	6415.79	-7202.67	-1209.76	1768111.26	14629905.37	40°16'56.7017"N	80°32'31.7033"W	7303.56	189.534	0.55
13411.00	88.800	159.410	5683.39	6507.75	-7288.99	-1177.97	1768143.04	14629819.09	40°16'55.8471"N	80°32'31.2988"W	7383.56	189.180	1.05
13503.00	88.680	160.130	5685.41	6599.71	-7375.29	-1146.16	1768174.84	14629732.82	40°16'54.9927"N	80°32'30.8942"W	7463.82	188.833	0.79

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
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WELLPATH DATA (296 stations)

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13594.00	88.890	160.050	5687.34	6690.68	-7460.83	-1115.18	1768205.81	14629647.31	40°16'54.1458"N	80°32'30.5002"W	7543.71	188.501	0.25
13686.00	88.860	160.010	5689.15	6782.65	-7547.28	-1083.76	1768237.21	14629560.89	40°16'53.2899"N	80°32'30.1006"W	7624.70	188.172	0.05
13778.00	88.890	160.090	5690.96	6874.62	-7633.74	-1052.38	1768268.58	14629474.46	40°16'52.4339"N	80°32'29.7014"W	7705.94	187.849	0.09
13870.00	88.770	160.050	5692.84	6966.59	-7720.22	-1021.03	1768299.92	14629388.02	40°16'51.5778"N	80°32'29.3027"W	7787.44	187.534	0.14
13961.00	88.890	160.230	5694.69	7057.56	-7805.79	-990.12	1768330.82	14629302.48	40°16'50.7307"N	80°32'28.9096"W	7868.33	187.229	0.24
14053.00	89.020	161.020	5696.37	7149.54	-7892.56	-959.60	1768361.32	14629215.74	40°16'49.8716"N	80°32'28.5217"W	7950.68	186.932	0.87
14145.00	89.850	160.020	5697.28	7241.53	-7979.29	-928.93	1768391.99	14629129.05	40°16'49.0130"N	80°32'28.1316"W	8033.18	186.640	1.41
14237.00	89.050	160.250	5698.16	7333.52	-8065.81	-897.66	1768423.24	14629042.56	40°16'48.1565"N	80°32'27.7341"W	8115.61	186.350	0.90
14328.00	88.830	157.140	5699.85	7424.42	-8150.57	-864.61	1768456.28	14628957.84	40°16'47.3172"N	80°32'27.3133"W	8196.30	186.055	3.43
14420.00	88.830	154.040	5701.72	7515.98	-8234.31	-826.60	1768494.27	14628874.12	40°16'46.4877"N	80°32'26.8285"W	8275.70	185.732	3.37
14512.00	88.770	150.750	5703.65	7606.91	-8315.81	-783.99	1768536.87	14628792.65	40°16'45.6802"N	80°32'26.2841"W	8352.69	185.386	3.58
14604.00	88.770	150.960	5705.63	7697.45	-8396.15	-739.19	1768581.65	14628712.35	40°16'44.8841"N	80°32'25.7115"W	8428.62	185.031	0.23
14696.00	88.740	151.010	5707.63	7788.03	-8476.58	-694.58	1768626.25	14628631.95	40°16'44.0869"N	80°32'25.1413"W	8504.99	184.684	0.06
14788.00	89.320	154.060	5709.18	7879.01	-8558.19	-652.16	1768668.65	14628550.37	40°16'43.2783"N	80°32'24.5995"W	8583.00	184.358	3.37
14880.00	89.290	154.150	5710.30	7970.34	-8640.95	-611.98	1768708.81	14628467.64	40°16'42.4585"N	80°32'24.0867"W	8662.59	184.051	0.10
14971.00	89.260	154.120	5711.45	8060.68	-8722.82	-572.29	1768748.49	14628385.80	40°16'41.6474"N	80°32'23.5800"W	8741.58	183.754	0.05
15063.00	89.260	155.440	5712.64	8152.13	-8806.05	-533.09	1768787.67	14628302.61	40°16'40.8230"N	80°32'23.0799"W	8822.17	183.464	1.43
15155.00	89.230	156.800	5713.85	8243.79	-8890.16	-495.85	1768824.90	14628218.52	40°16'39.9899"N	80°32'22.6050"W	8903.98	183.192	1.48
15246.00	89.380	158.200	5714.96	8334.61	-8974.23	-461.03	1768859.70	14628134.49	40°16'39.1574"N	80°32'22.1614"W	8986.06	182.941	1.55
15338.00	89.420	161.520	5715.92	8426.58	-9060.58	-429.36	1768891.36	14628048.17	40°16'38.3024"N	80°32'21.7586"W	9070.75	182.713	3.61
15430.00	90.800	163.620	5715.74	8518.53	-9148.35	-401.81	1768918.91	14627960.43	40°16'37.4337"N	80°32'21.4090"W	9157.17	182.515	2.73
15521.00	89.540	162.870	5715.47	8609.46	-9235.49	-375.57	1768945.13	14627873.33	40°16'36.5713"N	80°32'21.0764"W	9243.12	182.329	1.61
15613.00	89.320	164.180	5716.39	8701.36	-9323.70	-349.48	1768971.21	14627785.15	40°16'35.6982"N	80°32'20.7457"W	9330.25	182.147	1.44
15705.00	89.570	164.330	5717.28	8793.21	-9412.25	-324.52	1768996.16	14627696.64	40°16'34.8220"N	80°32'20.4296"W	9417.84	181.975	0.32
15797.00	89.350	164.430	5718.15	8885.05	-9500.84	-299.75	1769020.92	14627608.07	40°16'33.9452"N	80°32'20.1159"W	9505.57	181.807	0.26
15888.00	89.570	164.200	5719.00	8975.89	-9588.45	-275.15	1769045.52	14627520.50	40°16'33.0782"N	80°32'19.8044"W	9592.40	181.644	0.35
15980.00	89.260	163.480	5719.94	9067.77	-9676.81	-249.55	1769071.11	14627432.18	40°16'32.2037"N	80°32'19.4800"W	9680.03	181.477	0.85
16071.00	89.320	164.430	5721.07	9158.64	-9764.26	-224.40	1769096.25	14627344.76	40°16'31.3383"N	80°32'19.1614"W	9766.84	181.317	1.05
16163.00	89.450	164.540	5722.06	9250.46	-9852.90	-199.79	1769120.85	14627256.15	40°16'30.4611"N	80°32'18.8499"W	9854.93	181.162	0.19
16254.00	89.450	161.110	5722.93	9341.40	-9939.83	-172.92	1769147.70	14627169.26	40°16'29.6008"N	80°32'18.5091"W	9941.33	180.997	3.77

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
16346.00	89.570	160.100	5723.72	9433.39	-10026.60	-142.37	1769178.24	14627082.52	40°16'28.7417"N	80°32'18.1208"W	10027.61	180.814	1.11
16529.00	89.510	159.670	5725.19	9616.35	-10198.43	-79.44	1769241.15	14626910.75	40°16'27.0405"N	80°32'17.3205"W	10198.74	180.446	0.24
16620.00	89.420	159.740	5726.04	9707.32	-10283.78	-47.88	1769272.70	14626825.44	40°16'26.1955"N	80°32'16.9190"W	10283.89	180.267	0.13
16712.00	89.450	159.860	5726.94	9799.30	-10370.12	-16.11	1769304.45	14626739.14	40°16'25.3407"N	80°32'16.5150"W	10370.13	180.089	0.13
16804.00	89.540	159.830	5727.76	9891.28	-10456.48	15.59	1769336.14	14626652.81	40°16'24.4856"N	80°32'16.1119"W	10456.49	179.915	0.10
16895.00	89.480	159.830	5728.53	9982.26	-10541.90	46.96	1769367.51	14626567.42	40°16'23.6400"N	80°32'15.7128"W	10542.00	179.745	0.07
16987.00	89.570	159.850	5729.30	10074.23	-10628.26	78.67	1769399.20	14626481.09	40°16'22.7849"N	80°32'15.3096"W	10628.55	179.576	0.10
17078.00	89.600	160.010	5729.96	10165.22	-10713.73	109.90	1769430.41	14626395.66	40°16'21.9387"N	80°32'14.9125"W	10714.29	179.412	0.18
17170.00	89.630	160.010	5730.57	10257.20	-10800.18	141.35	1769461.85	14626309.23	40°16'21.0828"N	80°32'14.5126"W	10801.11	179.250	0.03
17261.00	89.630	160.000	5731.16	10348.19	-10885.70	172.46	1769492.96	14626223.75	40°16'20.2361"N	80°32'14.1169"W	10887.06	179.092	0.01
17353.00	89.630	159.980	5731.76	10440.17	-10972.14	203.94	1769524.42	14626137.34	40°16'19.3803"N	80°32'13.7166"W	10974.04	178.935	0.02
17444.00	89.630	160.050	5732.34	10531.15	-11057.66	235.04	1769555.51	14626051.86	40°16'18.5336"N	80°32'13.3212"W	11060.16	178.782	0.08
17536.00	89.660	159.940	5732.91	10623.14	-11144.11	266.52	1769586.97	14625965.44	40°16'17.6778"N	80°32'12.9210"W	11147.29	178.630	0.12
17627.00	89.630	159.980	5733.48	10714.12	-11229.59	297.70	1769618.15	14625879.99	40°16'16.8314"N	80°32'12.5245"W	11233.54	178.481	0.05
17719.00	89.690	160.140	5734.02	10806.11	-11316.08	329.07	1769649.51	14625793.54	40°16'15.9751"N	80°32'12.1255"W	11320.86	178.334	0.19
17810.00	89.570	159.910	5734.61	10897.09	-11401.60	360.16	1769680.58	14625708.05	40°16'15.1284"N	80°32'11.7303"W	11407.29	178.191	0.29
17902.00	89.570	160.010	5735.30	10989.08	-11488.03	391.68	1769712.09	14625621.65	40°16'14.2727"N	80°32'11.3294"W	11494.70	178.047	0.11
17994.00	89.570	159.820	5735.99	11081.06	-11574.43	423.28	1769743.68	14625535.28	40°16'13.4173"N	80°32'10.9277"W	11582.17	177.906	0.21
18177.00	89.570	159.960	5737.37	11264.02	-11746.27	486.20	1769806.57	14625363.51	40°16'11.7160"N	80°32'10.1276"W	11756.33	177.630	0.08
18268.00	89.510	159.520	5738.10	11354.99	-11831.64	517.71	1769838.07	14625278.17	40°16'10.8708"N	80°32'9.7269"W	11842.96	177.495	0.49
18360.00	89.690	159.600	5738.74	11446.96	-11917.84	549.83	1769870.18	14625192.00	40°16'10.0173"N	80°32'9.3182"W	11930.52	177.359	0.21
18451.00	89.690	159.810	5739.23	11537.94	-12003.19	581.40	1769901.74	14625106.69	40°16'9.1722"N	80°32'8.9168"W	12017.26	177.227	0.23
18543.00	89.690	159.880	5739.73	11629.92	-12089.56	613.10	1769933.42	14625020.35	40°16'8.3172"N	80°32'8.5137"W	12105.09	177.097	0.08
18634.00	89.540	160.090	5740.34	11720.90	-12175.06	644.24	1769964.56	14624934.88	40°16'7.4706"N	80°32'8.1177"W	12192.09	176.971	0.28
18726.00	89.820	159.660	5740.85	11812.88	-12261.44	675.90	1769996.20	14624848.54	40°16'6.6154"N	80°32'7.7152"W	12280.05	176.845	0.56
18817.00	89.630	160.120	5741.29	11903.87	-12346.89	707.18	1770027.47	14624763.12	40°16'5.7694"N	80°32'7.3174"W	12367.13	176.722	0.55
18909.00	89.940	160.250	5741.64	11995.86	-12433.44	738.37	1770058.65	14624676.60	40°16'4.9125"N	80°32'6.9209"W	12455.35	176.601	0.37
19000.00	90.030	160.080	5741.66	12086.85	-12519.04	769.25	1770089.51	14624591.03	40°16'4.0650"N	80°32'6.5284"W	12542.66	176.484	0.21
19092.00	89.630	160.000	5741.93	12178.83	-12605.52	800.65	1770120.91	14624504.59	40°16'3.2089"N	80°32'6.1291"W	12630.92	176.366	0.44
19183.00	89.570	159.810	5742.57	12269.81	-12690.98	831.92	1770152.16	14624419.17	40°16'2.3628"N	80°32'5.7316"W	12718.21	176.250	0.22

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
19275.00	89.450	159.820	5743.35	12361.79	-12777.32	863.66	1770183.89	14624332.85	40°16'1.5079"N	80°32'5.3280"W	12806.48	176.133	0.13
19366.00	89.540	159.920	5744.16	12452.77	-12862.76	894.98	1770215.19	14624247.45	40°16'0.6620"N	80°32'4.9298"W	12893.86	176.020	0.15
19458.00	89.660	160.260	5744.80	12544.76	-12949.26	926.31	1770246.51	14624160.98	40°15'59.8056"N	80°32'4.5315"W	12982.35	175.908	0.39
19549.00	89.690	160.160	5745.31	12635.75	-13034.88	957.12	1770277.31	14624075.39	40°15'58.9579"N	80°32'4.1398"W	13069.97	175.800	0.11
19641.00	89.570	159.940	5745.91	12727.73	-13121.36	988.51	1770308.69	14623988.95	40°15'58.1017"N	80°32'3.7408"W	13158.54	175.692	0.27
19732.00	89.510	159.860	5746.64	12818.71	-13206.81	1019.78	1770339.95	14623903.52	40°15'57.2556"N	80°32'3.3432"W	13246.13	175.585	0.11
19824.00	89.480	159.870	5747.45	12910.69	-13293.19	1051.45	1770371.60	14623817.18	40°15'56.4005"N	80°32'2.9405"W	13334.71	175.478	0.03
19915.00	89.600	159.540	5748.18	13001.67	-13378.54	1083.01	1770403.15	14623731.87	40°15'55.5555"N	80°32'2.5392"W	13422.30	175.372	0.39
20007.00	89.540	160.080	5748.87	13093.64	-13464.88	1114.76	1770434.89	14623645.56	40°15'54.7006"N	80°32'2.1354"W	13510.95	175.267	0.59
20098.00	89.420	159.790	5749.70	13184.62	-13550.35	1145.98	1770466.10	14623560.12	40°15'53.8543"N	80°32'1.7385"W	13598.73	175.166	0.34
20189.00	89.540	159.700	5750.52	13275.60	-13635.72	1177.48	1770497.59	14623474.78	40°15'53.0091"N	80°32'1.3379"W	13686.47	175.065	0.16
20281.00	89.480	159.710	5751.31	13367.57	-13722.01	1209.39	1770529.49	14623388.53	40°15'52.1548"N	80°32'0.9322"W	13775.20	174.963	0.07
20373.00	89.420	159.360	5752.19	13459.54	-13808.20	1241.56	1770561.64	14623302.37	40°15'51.3014"N	80°32'0.5231"W	13863.90	174.862	0.39
20465.00	89.380	159.410	5753.16	13551.50	-13894.30	1273.95	1770594.02	14623216.30	40°15'50.4489"N	80°32'0.1112"W	13952.58	174.761	0.07
20556.00	89.200	159.540	5754.28	13642.46	-13979.52	1305.85	1770625.91	14623131.12	40°15'49.6051"N	80°31'59.7054"W	14040.38	174.663	0.24
20648.00	89.450	160.190	5755.37	13734.43	-14065.89	1337.52	1770657.57	14623044.78	40°15'48.7500"N	80°31'59.3028"W	14129.34	174.568	0.76
20740.00	89.450	160.110	5756.25	13826.42	-14152.42	1368.76	1770688.79	14622958.28	40°15'47.8933"N	80°31'58.9057"W	14218.45	174.476	0.09
20832.00	89.170	159.690	5757.36	13918.40	-14238.81	1400.37	1770720.39	14622871.92	40°15'47.0380"N	80°31'58.5038"W	14307.51	174.383	0.55
20923.00	89.080	159.470	5758.75	14009.36	-14324.08	1432.12	1770752.13	14622786.69	40°15'46.1937"N	80°31'58.1001"W	14395.49	174.291	0.26
21015.00	89.020	159.490	5760.27	14101.31	-14410.23	1464.36	1770784.36	14622700.57	40°15'45.3407"N	80°31'57.6901"W	14484.44	174.198	0.07
21106.00	89.230	159.850	5761.66	14192.28	-14495.55	1495.97	1770815.96	14622615.28	40°15'44.4959"N	80°31'57.2881"W	14572.54	174.108	0.46
21198.00	89.260	159.660	5762.88	14284.25	-14581.86	1527.81	1770847.78	14622529.00	40°15'43.6414"N	80°31'56.8834"W	14661.68	174.019	0.21
21290.00	89.320	159.820	5764.02	14376.22	-14668.16	1559.66	1770879.62	14622442.73	40°15'42.7869"N	80°31'56.4783"W	14750.85	173.931	0.19
21381.00	89.200	159.870	5765.19	14467.19	-14753.58	1591.01	1770910.96	14622357.35	40°15'41.9412"N	80°31'56.0797"W	14839.12	173.845	0.14
21473.00	89.140	159.420	5766.52	14559.16	-14839.83	1623.01	1770942.95	14622271.13	40°15'41.0872"N	80°31'55.6729"W	14928.32	173.758	0.49
21565.00	89.260	161.650	5767.81	14651.14	-14926.56	1653.66	1770973.59	14622184.44	40°15'40.2286"N	80°31'55.2834"W	15017.88	173.678	2.43
21656.00	89.230	161.530	5769.01	14742.13	-15012.89	1682.40	1771002.32	14622098.14	40°15'39.3740"N	80°31'54.9186"W	15106.87	173.606	0.14
21839.00	89.230	161.270	5771.47	14925.11	-15186.32	1740.76	1771060.66	14621924.78	40°15'37.6572"N	80°31'54.1776"W	15285.76	173.461	0.14
21938.00	89.290	161.410	5772.75	15024.10	-15280.11	1772.44	1771092.32	14621831.03	40°15'36.7287"N	80°31'53.7755"W	15382.56	173.383	0.15
22033.00	89.320	161.400	5773.90	15119.09	-15370.14	1802.73	1771122.60	14621741.03	40°15'35.8375"N	80°31'53.3909"W	15475.50	173.310	0.03

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
22127.00	89.350	161.550	5774.99	15213.08	-15459.26	1832.59	1771152.45	14621651.94	40°15'34.9552"N	80°31'53.0118"W	15567.50	173.240	0.16
22222.00	89.290	161.620	5776.12	15308.07	-15549.39	1862.60	1771182.45	14621561.84	40°15'34.0630"N	80°31'52.6309"W	15660.55	173.169	0.10
22317.00	89.260	161.550	5777.32	15403.05	-15639.52	1892.61	1771212.44	14621471.75	40°15'33.1708"N	80°31'52.2500"W	15753.62	173.100	0.08
22412.00	89.230	161.570	5778.57	15498.04	-15729.63	1922.65	1771242.48	14621381.67	40°15'32.2788"N	80°31'51.8686"W	15846.70	173.031	0.04
22506.00	89.380	161.120	5779.71	15592.03	-15818.69	1952.72	1771272.53	14621292.65	40°15'31.3972"N	80°31'51.4868"W	15938.76	172.963	0.50
22601.00	89.380	161.720	5780.74	15687.02	-15908.73	1982.99	1771302.79	14621202.64	40°15'30.5058"N	80°31'51.1026"W	16031.84	172.895	0.63
22696.00	89.450	161.510	5781.71	15782.01	-15998.88	2012.95	1771332.74	14621112.53	40°15'29.6135"N	80°31'50.7223"W	16125.01	172.829	0.23
22791.00	89.380	162.470	5782.68	15876.99	-16089.22	2042.32	1771362.10	14621022.22	40°15'28.7192"N	80°31'50.3496"W	16218.32	172.766	1.01
22885.00	89.230	161.230	5783.82	15970.97	-16178.53	2071.60	1771391.36	14620932.94	40°15'27.8351"N	80°31'49.9781"W	16310.62	172.703	1.33
22979.00	89.320	161.470	5785.01	16064.96	-16267.59	2101.66	1771421.41	14620843.92	40°15'26.9535"N	80°31'49.5965"W	16402.79	172.639	0.27
23074.00	89.320	161.300	5786.14	16159.95	-16357.61	2131.98	1771451.72	14620753.93	40°15'26.0623"N	80°31'49.2115"W	16495.96	172.574	0.18
23168.00	89.290	161.580	5787.28	16253.94	-16446.72	2161.90	1771481.63	14620664.86	40°15'25.1802"N	80°31'48.8317"W	16588.20	172.511	0.30
23263.00	89.450	161.440	5788.32	16348.93	-16536.81	2192.02	1771511.74	14620574.81	40°15'24.2884"N	80°31'48.4493"W	16681.46	172.449	0.22
23357.00	89.420	161.350	5789.25	16442.93	-16625.89	2222.01	1771541.72	14620485.76	40°15'23.4065"N	80°31'48.0686"W	16773.72	172.388	0.10
23451.00	89.510	161.530	5790.12	16536.92	-16715.00	2251.93	1771571.63	14620396.68	40°15'22.5244"N	80°31'47.6888"W	16866.01	172.327	0.21
23545.00	89.540	161.460	5790.90	16630.91	-16804.14	2281.76	1771601.45	14620307.58	40°15'21.6420"N	80°31'47.3102"W	16958.34	172.267	0.08
23640.00	89.480	161.330	5791.72	16725.91	-16894.17	2312.07	1771631.75	14620217.58	40°15'20.7508"N	80°31'46.9254"W	17051.64	172.207	0.15
23734.00	89.570	161.770	5792.50	16819.90	-16983.33	2341.82	1771661.48	14620128.45	40°15'19.8681"N	80°31'46.5478"W	17144.03	172.149	0.48
23829.00	89.480	161.460	5793.28	16914.89	-17073.48	2371.78	1771691.43	14620038.34	40°15'18.9757"N	80°31'46.1676"W	17237.43	172.091	0.34
24017.00	89.690	162.100	5794.64	17102.87	-17252.05	2430.56	1771750.19	14619859.84	40°15'17.2081"N	80°31'45.4217"W	17422.42	171.981	0.36
24112.00	89.290	161.300	5795.49	17197.85	-17342.24	2460.39	1771780.01	14619769.68	40°15'16.3153"N	80°31'45.0432"W	17515.90	171.925	0.94
24205.00	89.230	160.170	5796.69	17290.84	-17430.02	2491.07	1771810.67	14619681.93	40°15'15.4462"N	80°31'44.6535"W	17607.13	171.866	1.22
24299.00	89.380	159.990	5797.83	17384.83	-17518.39	2523.09	1771842.69	14619593.60	40°15'14.5713"N	80°31'44.2465"W	17699.15	171.804	0.25
24394.00	89.230	160.110	5798.98	17479.81	-17607.69	2555.50	1771875.09	14619504.34	40°15'13.6872"N	80°31'43.8346"W	17792.17	171.742	0.20
24488.00	89.170	159.770	5800.30	17573.78	-17695.97	2587.74	1771907.31	14619416.08	40°15'12.8131"N	80°31'43.4248"W	17884.18	171.680	0.37
24582.00	89.170	159.530	5801.66	17667.74	-17784.10	2620.43	1771939.99	14619327.99	40°15'11.9405"N	80°31'43.0093"W	17976.12	171.618	0.26
24677.00	89.170	159.080	5803.03	17762.69	-17872.96	2654.00	1771973.54	14619239.17	40°15'11.0607"N	80°31'42.5825"W	18068.93	171.554	0.47
24772.00	88.770	160.100	5804.74	17857.65	-17961.98	2687.12	1772006.65	14619150.18	40°15'10.1793"N	80°31'42.1614"W	18161.86	171.492	1.15
24866.00	88.860	160.190	5806.69	17951.62	-18050.37	2719.04	1772038.56	14619061.82	40°15'9.3041"N	80°31'41.7558"W	18254.02	171.434	0.14
24960.00	88.830	159.870	5808.58	18045.59	-18138.70	2751.14	1772070.64	14618973.53	40°15'8.4296"N	80°31'41.3479"W	18346.15	171.376	0.34

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH DATA (296 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]
25149.00	88.920	160.140	5812.29	18234.52	-18316.27	2815.75	1772135.23	14618796.02	40°15'6.6714"N	80°31'40.5267"W	18531.44	171.260	0.15
25243.00	88.890	160.320	5814.09	18328.50	-18404.72	2847.54	1772167.01	14618707.61	40°15'5.7958"N	80°31'40.1228"W	18623.70	171.205	0.19
25338.00	88.980	159.800	5815.85	18423.47	-18494.01	2879.93	1772199.39	14618618.36	40°15'4.9118"N	80°31'39.7112"W	18716.90	171.149	0.56
25432.00	88.950	159.860	5817.55	18517.43	-18582.23	2912.34	1772231.79	14618530.17	40°15'4.0383"N	80°31'39.2993"W	18809.07	171.093	0.07
25621.00	88.580	160.110	5821.63	18706.36	-18759.77	2977.01	1772296.43	14618352.69	40°15'2.2804"N	80°31'38.4774"W	18994.52	170.983	0.24
25715.00	88.710	159.930	5823.85	18800.32	-18848.09	3009.12	1772328.53	14618264.41	40°15'1.4060"N	80°31'38.0694"W	19086.78	170.929	0.24
25809.00	88.610	159.930	5826.05	18894.28	-18936.36	3041.37	1772360.77	14618176.18	40°15'0.5321"N	80°31'37.6596"W	19179.04	170.876	0.11
25903.00	88.610	160.110	5828.33	18988.24	-19024.67	3073.48	1772392.87	14618087.89	40°14'59.6577"N	80°31'37.2515"W	19271.34	170.823	0.19
25998.00	88.610	159.920	5830.63	19083.19	-19113.93	3105.94	1772425.31	14617998.67	40°14'58.7740"N	80°31'36.8391"W	19364.63	170.770	0.20
26092.00	88.610	160.070	5832.91	19177.15	-19202.23	3138.09	1772457.45	14617910.41	40°14'57.8997"N	80°31'36.4305"W	19456.96	170.719	0.16
26282.00	88.680	159.780	5837.40	19367.07	-19380.63	3203.29	1772522.62	14617732.07	40°14'56.1333"N	80°31'35.6020"W	19643.58	170.615	0.16
26469.00	88.710	160.070	5841.66	19553.98	-19556.23	3267.46	1772586.77	14617556.54	40°14'54.3947"N	80°31'34.7865"W	19827.31	170.515	0.16
26564.00	88.830	160.180	5843.70	19648.95	-19645.55	3299.75	1772619.05	14617467.26	40°14'53.5104"N	80°31'34.3763"W	19920.74	170.465	0.17
26658.00	88.680	159.890	5845.74	19742.92	-19733.88	3331.84	1772651.12	14617378.96	40°14'52.6359"N	80°31'33.9685"W	20013.17	170.417	0.35
26752.00	88.650	160.040	5847.93	19836.88	-19822.17	3364.03	1772683.30	14617290.71	40°14'51.7617"N	80°31'33.5594"W	20105.60	170.368	0.16
26846.00	88.680	160.070	5850.12	19930.84	-19910.50	3396.09	1772715.35	14617202.40	40°14'50.8871"N	80°31'33.1521"W	20198.06	170.320	0.05
26940.00	88.680	160.150	5852.29	20024.80	-19998.87	3428.06	1772747.31	14617114.07	40°14'50.0122"N	80°31'32.7459"W	20290.55	170.273	0.09
27034.00	88.680	159.710	5854.46	20118.76	-20087.14	3460.31	1772779.54	14617025.83	40°14'49.1382"N	80°31'32.3361"W	20383.01	170.226	0.47
27129.00	88.680	160.030	5856.64	20213.72	-20176.31	3493.00	1772812.22	14616936.69	40°14'48.2553"N	80°31'31.9207"W	20476.44	170.178	0.34
27223.00	88.800	159.740	5858.71	20307.68	-20264.56	3525.31	1772844.52	14616848.48	40°14'47.3816"N	80°31'31.5100"W	20568.91	170.131	0.33
27317.00	88.580	160.060	5860.86	20401.64	-20352.81	3557.61	1772876.81	14616760.26	40°14'46.5078"N	80°31'31.0996"W	20661.40	170.085	0.41
27411.00	88.580	159.890	5863.19	20495.59	-20441.10	3589.79	1772908.97	14616672.01	40°14'45.6336"N	80°31'30.6908"W	20753.92	170.039	0.18
27506.00	88.650	159.920	5865.49	20590.55	-20530.29	3622.42	1772941.59	14616582.85	40°14'44.7505"N	80°31'30.2761"W	20847.42	169.994	0.08
27600.00	88.680	159.890	5867.68	20684.50	-20618.54	3654.71	1772973.87	14616494.63	40°14'43.8767"N	80°31'29.8658"W	20939.94	169.949	0.05
27646.00	88.650	159.920	5868.75	20730.48	-20661.73	3670.51	1772989.66	14616451.46	40°14'43.4491"N	80°31'29.6651"W	20985.23	169.927	0.09
27671.00†	88.650	159.920	5869.34	20755.47	-20685.21	3679.09	1772998.24	14616428.00	40°14'43.2167"N	80°31'29.5560"W	21009.84	169.915	0.00

Actual Wellpath Report

STATE OF WV DNR C BRK 806H awp Proj: 27671'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

HOLE & CASING SECTIONS									
- Ref Wellbore: STATE OF WV DNR C BRK 806H AWB					Ref Wellpath: STATE OF WV DNR C BRK 806H awp Proj: 27671'				
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	450.00	424.00	26.00	450.00	0.00	0.00	0.89	0.49
9.625in Casing	26.00	1946.00	1920.00	26.00	1838.40	0.00	0.00	-114.19	-453.62
5.5in Casing	26.00	27671.00	27645.00	26.00	5869.34	0.00	0.00	-20685.21	3679.09

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

TARGETS								
Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
DNR C BRK 806H LP rev 4	5613.00	-1159.68	-3046.11	1766275.62	14635946.04	40°17'56.5098"N	80°32'55.0001"W	point
DNR C BRK 806H LP rev 3	5620.00	-1159.68	-3046.11	1766275.62	14635946.04	40°17'56.5098"N	80°32'55.0001"W	point
DNR C BRK 806H wp1	5621.00	-1159.68	-3046.11	1766275.62	14635946.04	40°17'56.5098"N	80°32'55.0001"W	point
DNR C BRK 806H wp2	5644.39	-3070.95	-2532.47	1766789.06	14634035.51	40°17'37.5974"N	80°32'48.4973"W	point
DNR C BRK 806H wp3	5669.82	-5144.11	-1953.70	1767367.61	14631963.14	40°17'17.0817"N	80°32'41.1657"W	point
DNR C BRK 806H wp4	5684.29	-6309.11	-1572.19	1767748.98	14630798.59	40°17'5.5501"N	80°32'36.3202"W	point
DNR C BRK 806H wp5	5742.00	-11328.25	339.07	1769659.50	14625781.37	40°16'15.8544"N	80°32'11.9974"W	point
DNR C BRK 806H BHL rev 2	5865.00	-20686.42	3678.39	1772997.54	14616426.78	40°14'43.2047"N	80°31'29.5651"W	point

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REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	STATE OF WV DNR C BRK 806H
Field	Brooke	API	47009003440000
Facility	State of WV DNR C BRK Pad	Wellbore	STATE OF WV DNR C BRK 806H AWB
Slot	806H		

WELLPATH COMPOSITION - Ref Wellbore: STATE OF WV DNR C BRK 806H AWB Ref Wellpath: STATE OF WV DNR C BRK 806H awp Proj: 27671'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	383.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	1 Total MWD 17.5" IFR-MSA 178' - 383'	STATE OF WV DNR C BRK 806H AWB	8/8/2024
383.00	1049.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	2 Total MWD 12.25" IFR-MSA 461' - 1049'	STATE OF WV DNR C BRK 806H AWB	8/8/2024
1049.00	1946.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	3 Total MWD 12.25" IFR-MSA 1140' - 1946'	STATE OF WV DNR C BRK 806H AWB	8/8/2024
1946.00	27671.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	4 BH MWD 8.5" IFR-MSA 2079' - 27646'	STATE OF WV DNR C BRK 806H AWB	8/8/2024

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