

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|-----------------------------|----------|--------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | SWN A WTZ 601H |
| Field | Wetzel WV | API | 47103034220000 |
| Facility | SWN A WTZ Pad | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|------------------------------------|------------------|--------------------------|
| Projection System | NAD83 / UTM Zone 17 North, US feet | Software System | WellArchitect® 6.0 |
| North Reference | Grid | User | Tranlam |
| Scale | 0.999612 | Report Generated | 3/11/2022 at 10:58:15 PM |
| Convergence at slot | 0.23° 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 | -24.93 | 99.22 | 1741783.96 | 14411366.62 | 39°40'57.4057"N | 80°38'22.9301"W |
| Facility Reference Pt | | | 1741684.77 | 14411391.54 | 39°40'57.6560"N | 80°38'24.1980"W |
| Field Reference Pt | | | 0.00 | 0.00 | 0°00'0.0000" | 85°29'19.4780"W |

WELLPATH DATUM

| | | | |
|--------------------------|-------------------|--|-------------------|
| Calculation method | Minimum curvature | SDC 41 (RKB) to Facility Vertical Datum | 1369.10ft |
| Horizontal Reference Pt | Slot | SDC 41 (RKB) to Mean Sea Level | 1369.10ft |
| Vertical Reference Pt | SDC 41 (RKB) | SDC 41 (RKB) to Ground Level at Slot (Slot 601H) | 26.00ft |
| MD Reference Pt | SDC 41 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 311.00° |

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| WELLPATH DATA (206 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 | DLS [°/100ft] | Comments |
| 0.00† | 0.000 | 132.330 | 0.00 | 0.00 | 0.00 | 0.00 | 1741783.96 | 14411366.62 | 39°40'57.4057"N | 80°38'22.9301"W | 0.00 | |
| 26.00 | 0.000 | 132.330 | 26.00 | 0.00 | 0.00 | 0.00 | 1741783.96 | 14411366.62 | 39°40'57.4057"N | 80°38'22.9301"W | 0.00 | |
| 50.00 | 0.100 | 132.330 | 50.00 | -0.02 | -0.01 | 0.02 | 1741783.98 | 14411366.61 | 39°40'57.4056"N | 80°38'22.9299"W | 0.42 | 1 Gyro 50' - 381' |
| 100.00 | 0.110 | 61.820 | 100.00 | -0.08 | -0.02 | 0.09 | 1741784.05 | 14411366.60 | 39°40'57.4055"N | 80°38'22.9290"W | 0.24 | |
| 150.00 | 0.110 | 358.070 | 150.00 | -0.07 | 0.05 | 0.13 | 1741784.09 | 14411366.67 | 39°40'57.4062"N | 80°38'22.9285"W | 0.23 | |
| 200.00 | 0.130 | 174.440 | 200.00 | -0.07 | 0.04 | 0.13 | 1741784.09 | 14411366.66 | 39°40'57.4061"N | 80°38'22.9284"W | 0.48 | |
| 250.00 | 0.050 | 315.090 | 250.00 | -0.09 | 0.00 | 0.12 | 1741784.08 | 14411366.62 | 39°40'57.4057"N | 80°38'22.9285"W | 0.34 | |
| 300.00 | 0.150 | 49.840 | 300.00 | -0.08 | 0.06 | 0.16 | 1741784.12 | 14411366.68 | 39°40'57.4063"N | 80°38'22.9281"W | 0.32 | |
| 350.00 | 0.150 | 286.650 | 350.00 | -0.03 | 0.12 | 0.15 | 1741784.11 | 14411366.74 | 39°40'57.4069"N | 80°38'22.9283"W | 0.53 | |
| 381.00 | 0.170 | 312.100 | 381.00 | 0.05 | 0.16 | 0.07 | 1741784.03 | 14411366.78 | 39°40'57.4073"N | 80°38'22.9292"W | 0.24 | |
| 420.00 | 0.210 | 271.460 | 420.00 | 0.16 | 0.20 | -0.04 | 1741783.92 | 14411366.82 | 39°40'57.4077"N | 80°38'22.9307"W | 0.35 | 2 Tally MWD 420' - 2877' |
| 510.00 | 1.400 | 219.090 | 509.99 | 0.25 | -0.65 | -0.90 | 1741783.06 | 14411365.97 | 39°40'57.3994"N | 80°38'22.9417"W | 1.43 | |
| 603.00 | 4.140 | 224.030 | 602.87 | 0.39 | -3.94 | -3.95 | 1741780.01 | 14411362.68 | 39°40'57.3669"N | 80°38'22.9809"W | 2.95 | |
| 693.00 | 8.180 | 217.500 | 692.33 | 0.17 | -11.36 | -10.11 | 1741773.86 | 14411355.26 | 39°40'57.2938"N | 80°38'23.0600"W | 4.55 | |
| 785.00 | 12.130 | 215.820 | 782.88 | -1.10 | -24.40 | -19.75 | 1741764.22 | 14411342.23 | 39°40'57.1654"N | 80°38'23.1840"W | 4.31 | |
| 877.00 | 15.530 | 213.630 | 872.20 | -3.55 | -42.50 | -32.23 | 1741751.74 | 14411324.14 | 39°40'56.9870"N | 80°38'23.3446"W | 3.74 | |
| 967.00 | 18.230 | 211.400 | 958.31 | -7.45 | -64.55 | -46.24 | 1741737.73 | 14411302.10 | 39°40'56.7697"N | 80°38'23.5249"W | 3.08 | |
| 1059.00 | 18.950 | 213.320 | 1045.51 | -11.84 | -89.31 | -61.95 | 1741722.04 | 14411277.34 | 39°40'56.5255"N | 80°38'23.7271"W | 1.03 | |
| 1149.00 | 18.470 | 222.170 | 1130.77 | -13.50 | -112.10 | -79.55 | 1741704.44 | 14411254.57 | 39°40'56.3011"N | 80°38'23.9534"W | 3.20 | |
| 1240.00 | 19.680 | 228.730 | 1216.78 | -11.15 | -132.89 | -100.75 | 1741683.25 | 14411233.78 | 39°40'56.0964"N | 80°38'24.2256"W | 2.70 | |
| 1330.00 | 18.370 | 230.870 | 1301.87 | -6.68 | -151.84 | -123.14 | 1741660.87 | 14411214.84 | 39°40'55.9100"N | 80°38'24.5129"W | 1.65 | |
| 1421.00 | 17.890 | 233.070 | 1388.35 | -1.30 | -169.28 | -145.44 | 1741638.58 | 14411197.40 | 39°40'55.7385"N | 80°38'24.7990"W | 0.92 | |
| 1512.00 | 20.980 | 229.910 | 1474.16 | 4.15 | -188.18 | -169.08 | 1741614.95 | 14411178.52 | 39°40'55.5527"N | 80°38'25.1024"W | 3.59 | |
| 1604.00 | 22.840 | 221.520 | 1559.53 | 6.86 | -212.16 | -193.52 | 1741590.51 | 14411154.54 | 39°40'55.3167"N | 80°38'25.4163"W | 3.95 | |
| 1694.00 | 24.120 | 215.000 | 1642.09 | 5.10 | -240.31 | -215.65 | 1741568.39 | 14411126.40 | 39°40'55.0394"N | 80°38'25.7008"W | 3.22 | |
| 1786.00 | 28.030 | 211.450 | 1724.71 | -0.45 | -274.16 | -237.72 | 1741546.33 | 14411092.56 | 39°40'54.7056"N | 80°38'25.9848"W | 4.57 | |
| 1878.00 | 30.970 | 210.940 | 1804.78 | -8.18 | -312.92 | -261.18 | 1741522.88 | 14411053.83 | 39°40'54.3236"N | 80°38'26.2868"W | 3.21 | |
| 1969.00 | 31.450 | 215.310 | 1882.62 | -14.62 | -352.38 | -286.94 | 1741497.13 | 14411014.38 | 39°40'53.9346"N | 80°38'26.6183"W | 2.54 | |
| 2057.00 | 32.950 | 219.950 | 1957.09 | -17.34 | -389.47 | -315.58 | 1741468.50 | 14410977.31 | 39°40'53.5692"N | 80°38'26.9866"W | 3.29 | |
| 2149.00 | 32.950 | 221.710 | 2034.30 | -17.49 | -427.32 | -348.30 | 1741435.80 | 14410939.46 | 39°40'53.1964"N | 80°38'27.4069"W | 1.04 | |

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| Facility | SWN A WTZ Pad | | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | | |

| WELLPATH DATA (206 stations) | | | | | | | | | | | | |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------------|---------------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 2240.00 | 30.290 | 222.670 | 2111.78 | -16.51 | -462.68 | -380.32 | 1741403.78 | 14410904.12 | 39°40'52.8482"N | 80°38'27.8184"W | 2.97 | |
| 2331.00 | 29.480 | 221.210 | 2190.68 | -15.76 | -496.40 | -410.63 | 1741373.49 | 14410870.41 | 39°40'52.5162"N | 80°38'28.2077"W | 1.20 | |
| 2422.00 | 29.620 | 218.630 | 2269.85 | -16.61 | -530.81 | -439.42 | 1741344.71 | 14410836.01 | 39°40'52.1772"N | 80°38'28.5777"W | 1.41 | |
| 2514.00 | 29.950 | 216.940 | 2349.69 | -19.17 | -566.93 | -467.42 | 1741316.72 | 14410799.91 | 39°40'51.8214"N | 80°38'28.9377"W | 0.98 | |
| 2605.00 | 29.040 | 216.920 | 2428.90 | -22.35 | -602.74 | -494.34 | 1741289.81 | 14410764.11 | 39°40'51.4685"N | 80°38'29.2838"W | 1.00 | |
| 2696.00 | 28.450 | 217.950 | 2508.69 | -25.08 | -637.49 | -520.94 | 1741263.23 | 14410729.37 | 39°40'51.1261"N | 80°38'29.6258"W | 0.85 | |
| 2787.00 | 27.680 | 217.430 | 2588.99 | -27.55 | -671.37 | -547.11 | 1741237.06 | 14410695.51 | 39°40'50.7924"N | 80°38'29.9623"W | 0.89 | |
| 2877.00 | 27.130 | 217.740 | 2668.88 | -30.02 | -704.20 | -572.38 | 1741211.80 | 14410662.70 | 39°40'50.4689"N | 80°38'30.2871"W | 0.63 | |
| 2969.00 | 24.930 | 217.450 | 2751.55 | -32.41 | -736.18 | -597.01 | 1741187.18 | 14410630.72 | 39°40'50.1538"N | 80°38'30.6038"W | 2.40 | 3 Tally MWD 2969' - 6091' |
| 3023.00 | 22.790 | 216.730 | 2800.93 | -33.89 | -753.60 | -610.19 | 1741174.01 | 14410613.31 | 39°40'49.9822"N | 80°38'30.7732"W | 4.00 | |
| 3082.00 | 21.170 | 216.390 | 2855.64 | -35.60 | -771.34 | -623.34 | 1741160.86 | 14410595.58 | 39°40'49.8074"N | 80°38'30.9424"W | 2.75 | |
| 3175.00 | 23.180 | 214.560 | 2941.76 | -39.00 | -799.93 | -643.69 | 1741140.52 | 14410567.00 | 39°40'49.5256"N | 80°38'31.2041"W | 2.29 | |
| 3265.00 | 25.120 | 213.980 | 3023.88 | -43.33 | -830.37 | -664.42 | 1741119.80 | 14410536.58 | 39°40'49.2257"N | 80°38'31.4708"W | 2.17 | |
| 3356.00 | 26.620 | 216.080 | 3105.76 | -47.44 | -862.86 | -687.22 | 1741097.01 | 14410504.09 | 39°40'48.9054"N | 80°38'31.7641"W | 1.93 | |
| 3448.00 | 28.630 | 217.030 | 3187.27 | -50.73 | -897.12 | -712.64 | 1741071.60 | 14410469.85 | 39°40'48.5679"N | 80°38'32.0909"W | 2.24 | |
| 3539.00 | 30.540 | 216.070 | 3266.40 | -54.23 | -933.22 | -739.38 | 1741044.87 | 14410433.77 | 39°40'48.2122"N | 80°38'32.4348"W | 2.16 | |
| 3630.00 | 30.920 | 216.760 | 3344.62 | -57.94 | -970.63 | -766.99 | 1741017.27 | 14410396.36 | 39°40'47.8435"N | 80°38'32.7898"W | 0.57 | |
| 3722.00 | 30.110 | 219.520 | 3423.88 | -60.29 | -1007.37 | -795.82 | 1740988.45 | 14410359.64 | 39°40'47.4815"N | 80°38'33.1604"W | 1.76 | |
| 3813.00 | 31.220 | 221.290 | 3502.16 | -60.76 | -1042.70 | -825.91 | 1740958.37 | 14410324.32 | 39°40'47.1335"N | 80°38'33.5470"W | 1.57 | |
| 3904.00 | 31.420 | 218.410 | 3579.90 | -61.71 | -1079.01 | -856.21 | 1740928.09 | 14410288.03 | 39°40'46.7759"N | 80°38'33.9364"W | 1.66 | |
| 3996.00 | 32.140 | 218.510 | 3658.11 | -63.85 | -1116.95 | -886.34 | 1740897.96 | 14410250.10 | 39°40'46.4021"N | 80°38'34.3238"W | 0.78 | |
| 4088.00 | 31.650 | 216.370 | 3736.22 | -66.87 | -1155.54 | -915.90 | 1740868.42 | 14410211.53 | 39°40'46.0220"N | 80°38'34.7037"W | 1.34 | |
| 4181.00 | 32.400 | 216.900 | 3815.06 | -70.62 | -1195.11 | -945.33 | 1740839.00 | 14410171.97 | 39°40'45.6320"N | 80°38'35.0821"W | 0.86 | |
| 4272.00 | 31.970 | 219.820 | 3892.09 | -72.86 | -1233.11 | -975.39 | 1740808.95 | 14410133.99 | 39°40'45.2576"N | 80°38'35.4686"W | 1.77 | |
| 4363.00 | 31.210 | 217.840 | 3969.60 | -74.65 | -1270.24 | -1005.29 | 1740779.07 | 14410096.88 | 39°40'44.8919"N | 80°38'35.8529"W | 1.41 | |
| 4454.00 | 31.180 | 219.310 | 4047.45 | -76.65 | -1307.09 | -1034.67 | 1740749.69 | 14410060.05 | 39°40'44.5289"N | 80°38'36.2306"W | 0.84 | |
| 4544.00 | 30.930 | 218.160 | 4124.55 | -78.48 | -1343.30 | -1063.72 | 1740720.65 | 14410023.85 | 39°40'44.1722"N | 80°38'36.6040"W | 0.72 | |
| 4635.00 | 30.930 | 220.010 | 4202.61 | -80.04 | -1379.60 | -1093.21 | 1740691.18 | 14409987.56 | 39°40'43.8146"N | 80°38'36.9829"W | 1.04 | |
| 4728.00 | 30.340 | 217.650 | 4282.63 | -81.83 | -1416.51 | -1122.92 | 1740661.47 | 14409950.67 | 39°40'43.4510"N | 80°38'37.3649"W | 1.44 | |
| 4818.00 | 30.700 | 217.950 | 4360.16 | -84.38 | -1452.62 | -1150.94 | 1740633.47 | 14409914.57 | 39°40'43.0952"N | 80°38'37.7250"W | 0.43 | |

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|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------------|-------------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 4909.00 | 31.560 | 220.060 | 4438.06 | -86.01 | -1489.17 | -1180.55 | 1740603.87 | 14409878.04 | 39°40'42.7352"N | 80°38'38.1056"W | 1.53 | |
| 4999.00 | 30.680 | 218.380 | 4515.11 | -87.44 | -1525.19 | -1209.97 | 1740574.46 | 14409842.02 | 39°40'42.3803"N | 80°38'38.4836"W | 1.37 | |
| 5092.00 | 30.970 | 217.790 | 4594.97 | -89.87 | -1562.70 | -1239.36 | 1740545.08 | 14409804.53 | 39°40'42.0108"N | 80°38'38.8615"W | 0.45 | |
| 5184.00 | 30.310 | 216.140 | 4674.13 | -93.16 | -1600.16 | -1267.56 | 1740516.90 | 14409767.09 | 39°40'41.6417"N | 80°38'39.2240"W | 1.16 | |
| 5276.00 | 29.750 | 214.860 | 4753.78 | -97.57 | -1637.64 | -1294.30 | 1740490.17 | 14409729.62 | 39°40'41.2723"N | 80°38'39.5679"W | 0.92 | |
| 5366.00 | 30.210 | 217.150 | 4831.74 | -101.48 | -1674.01 | -1320.74 | 1740463.74 | 14409693.27 | 39°40'40.9139"N | 80°38'39.9079"W | 1.37 | |
| 5457.00 | 29.920 | 215.990 | 4910.50 | -105.00 | -1710.62 | -1347.90 | 1740436.59 | 14409656.67 | 39°40'40.5532"N | 80°38'40.2571"W | 0.71 | |
| 5547.00 | 29.800 | 215.180 | 4988.55 | -109.22 | -1747.06 | -1373.97 | 1740410.52 | 14409620.24 | 39°40'40.1941"N | 80°38'40.5925"W | 0.47 | |
| 5638.00 | 30.550 | 217.810 | 5067.22 | -112.80 | -1783.81 | -1401.18 | 1740383.33 | 14409583.50 | 39°40'39.8319"N | 80°38'40.9423"W | 1.67 | |
| 5729.00 | 30.400 | 220.550 | 5145.65 | -114.27 | -1819.58 | -1430.33 | 1740354.19 | 14409547.75 | 39°40'39.4795"N | 80°38'41.3169"W | 1.54 | |
| 5820.00 | 29.560 | 217.820 | 5224.48 | -115.70 | -1854.81 | -1459.06 | 1740325.47 | 14409512.53 | 39°40'39.1325"N | 80°38'41.6862"W | 1.76 | |
| 5908.00 | 29.900 | 215.200 | 5300.90 | -119.12 | -1889.88 | -1485.02 | 1740299.52 | 14409477.47 | 39°40'38.7869"N | 80°38'42.0199"W | 1.53 | |
| 6001.00 | 30.540 | 216.920 | 5381.26 | -123.14 | -1927.72 | -1512.57 | 1740271.98 | 14409439.66 | 39°40'38.4141"N | 80°38'42.3743"W | 1.16 | |
| 6091.00 | 30.510 | 218.890 | 5458.79 | -125.61 | -1963.78 | -1540.65 | 1740243.91 | 14409403.61 | 39°40'38.0588"N | 80°38'42.7352"W | 1.11 | |
| 6191.00 | 27.960 | 219.530 | 5546.05 | -127.15 | -2001.63 | -1571.52 | 1740213.06 | 14409365.78 | 39°40'37.6859"N | 80°38'43.1318"W | 2.57 | 4 BH MWD 6191' - 18005' |
| 6282.00 | 30.870 | 220.000 | 5625.31 | -128.10 | -2035.97 | -1600.11 | 1740184.48 | 14409331.44 | 39°40'37.3476"N | 80°38'43.4992"W | 3.21 | |
| 6373.00 | 31.050 | 219.900 | 5703.34 | -128.96 | -2071.86 | -1630.17 | 1740154.43 | 14409295.57 | 39°40'36.9941"N | 80°38'43.8855"W | 0.21 | |
| 6464.00 | 29.780 | 219.310 | 5781.82 | -130.08 | -2107.35 | -1659.54 | 1740125.07 | 14409260.09 | 39°40'36.6445"N | 80°38'44.2629"W | 1.43 | |
| 6555.00 | 30.880 | 217.320 | 5860.36 | -132.24 | -2143.41 | -1688.01 | 1740096.60 | 14409224.05 | 39°40'36.2893"N | 80°38'44.6290"W | 1.64 | |
| 6646.00 | 31.820 | 217.290 | 5938.07 | -135.29 | -2181.07 | -1716.71 | 1740067.92 | 14409186.40 | 39°40'35.9182"N | 80°38'44.9978"W | 1.03 | |
| 6736.00 | 31.820 | 217.840 | 6014.55 | -138.14 | -2218.68 | -1745.64 | 1740039.00 | 14409148.81 | 39°40'35.5476"N | 80°38'45.3697"W | 0.32 | |
| 6827.00 | 31.630 | 218.370 | 6091.95 | -140.55 | -2256.33 | -1775.17 | 1740009.49 | 14409111.17 | 39°40'35.1767"N | 80°38'45.7493"W | 0.37 | |
| 6917.00 | 31.500 | 217.460 | 6168.64 | -143.09 | -2293.50 | -1804.12 | 1739980.55 | 14409074.02 | 39°40'34.8105"N | 80°38'46.1214"W | 0.55 | |
| 7008.00 | 30.760 | 217.680 | 6246.53 | -145.90 | -2330.79 | -1832.80 | 1739951.88 | 14409036.74 | 39°40'34.4431"N | 80°38'46.4901"W | 0.82 | |
| 7099.00 | 29.650 | 217.870 | 6325.18 | -148.48 | -2366.98 | -1860.84 | 1739923.84 | 14409000.57 | 39°40'34.0866"N | 80°38'46.8506"W | 1.22 | |
| 7190.00 | 30.650 | 217.200 | 6403.86 | -151.25 | -2403.22 | -1888.68 | 1739896.01 | 14408964.34 | 39°40'33.7294"N | 80°38'47.2085"W | 1.16 | |
| 7282.00 | 31.630 | 221.820 | 6482.62 | -152.46 | -2439.88 | -1918.95 | 1739865.76 | 14408927.69 | 39°40'33.3683"N | 80°38'47.5975"W | 2.81 | |
| 7373.00 | 31.940 | 221.660 | 6559.97 | -151.84 | -2475.65 | -1950.86 | 1739833.86 | 14408891.94 | 39°40'33.0160"N | 80°38'48.0074"W | 0.35 | |
| 7464.00 | 31.710 | 219.980 | 6637.29 | -151.99 | -2511.96 | -1982.23 | 1739802.50 | 14408855.64 | 39°40'32.6584"N | 80°38'48.4104"W | 1.01 | |
| 7555.00 | 31.940 | 222.130 | 6714.61 | -151.94 | -2548.14 | -2013.75 | 1739771.00 | 14408819.47 | 39°40'32.3021"N | 80°38'48.8152"W | 1.27 | |

| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|-----------------------------|--|----------|--------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | | Well | SWN A WTZ 601H |
| Field | Wetzel WV | | API | 47103034220000 |
| Facility | SWN A WTZ Pad | | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | | |

| WELLPATH DATA (206 stations) | | | | | | | | | | | | |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 7646.00 | 30.910 | 232.370 | 6792.32 | -146.85 | -2580.29 | -2048.43 | 1739736.33 | 14408787.34 | 39°40'31.9857"N | 80°38'49.2604"W | 5.97 | |
| 7737.00 | 34.570 | 242.980 | 6868.91 | -132.56 | -2606.32 | -2089.99 | 1739694.79 | 14408761.32 | 39°40'31.7301"N | 80°38'49.7933"W | 7.47 | |
| 7828.00 | 35.790 | 253.220 | 6943.36 | -108.69 | -2625.74 | -2138.51 | 1739646.29 | 14408741.90 | 39°40'31.5400"N | 80°38'50.4148"W | 6.61 | |
| 7919.00 | 38.910 | 258.430 | 7015.71 | -77.12 | -2639.17 | -2192.01 | 1739592.81 | 14408728.48 | 39°40'31.4094"N | 80°38'51.0997"W | 4.88 | |
| 8009.00 | 42.590 | 263.600 | 7083.89 | -39.30 | -2648.23 | -2250.00 | 1739534.84 | 14408719.42 | 39°40'31.3221"N | 80°38'51.8418"W | 5.55 | |
| 8101.00 | 46.860 | 267.870 | 7149.26 | 6.30 | -2652.96 | -2314.52 | 1739470.34 | 14408714.70 | 39°40'31.2779"N | 80°38'52.6672"W | 5.67 | |
| 8193.00 | 51.460 | 272.480 | 7209.43 | 58.99 | -2652.65 | -2384.07 | 1739400.82 | 14408715.01 | 39°40'31.2837"N | 80°38'53.5567"W | 6.27 | |
| 8286.00 | 57.910 | 286.890 | 7263.35 | 123.70 | -2639.57 | -2458.44 | 1739326.48 | 14408728.08 | 39°40'31.4158"N | 80°38'54.5072"W | 14.40 | |
| 8376.00 | 67.490 | 298.940 | 7304.70 | 199.55 | -2608.21 | -2531.69 | 1739253.26 | 14408759.43 | 39°40'31.7285"N | 80°38'55.4423"W | 15.94 | |
| 8468.00 | 73.110 | 306.900 | 7335.74 | 285.20 | -2561.11 | -2604.23 | 1739180.74 | 14408806.51 | 39°40'32.1968"N | 80°38'56.3678"W | 10.18 | |
| 8560.00 | 78.970 | 306.830 | 7357.93 | 374.21 | -2507.57 | -2675.63 | 1739109.37 | 14408860.02 | 39°40'32.7287"N | 80°38'57.2783"W | 6.37 | |
| 8651.00 | 87.170 | 306.490 | 7368.90 | 464.21 | -2453.69 | -2748.04 | 1739036.99 | 14408913.89 | 39°40'33.2640"N | 80°38'58.2016"W | 9.02 | |
| 8742.00 | 92.930 | 310.960 | 7368.82 | 555.08 | -2396.80 | -2818.99 | 1738966.07 | 14408970.76 | 39°40'33.8290"N | 80°38'59.1061"W | 8.01 | |
| 8832.00 | 92.960 | 310.690 | 7364.19 | 644.96 | -2338.04 | -2887.00 | 1738898.09 | 14409029.50 | 39°40'34.4123"N | 80°38'59.9730"W | 0.30 | |
| 8923.00 | 93.110 | 310.720 | 7359.38 | 735.83 | -2278.77 | -2955.89 | 1738829.22 | 14409088.74 | 39°40'35.0007"N | 80°39'0.8511"W | 0.17 | |
| 9013.00 | 92.890 | 310.980 | 7354.67 | 825.70 | -2219.99 | -3023.87 | 1738761.27 | 14409147.50 | 39°40'35.5843"N | 80°39'1.7177"W | 0.38 | |
| 9106.00 | 93.050 | 311.650 | 7349.85 | 918.58 | -2158.67 | -3093.63 | 1738691.54 | 14409208.79 | 39°40'36.1929"N | 80°39'2.6068"W | 0.74 | |
| 9198.00 | 92.710 | 313.260 | 7345.22 | 1010.43 | -2096.65 | -3161.42 | 1738623.77 | 14409270.79 | 39°40'36.8084"N | 80°39'3.4707"W | 1.79 | |
| 9291.00 | 91.790 | 310.970 | 7341.57 | 1103.33 | -2034.34 | -3230.35 | 1738554.87 | 14409333.08 | 39°40'37.4269"N | 80°39'4.3492"W | 2.65 | |
| 9382.00 | 92.650 | 310.550 | 7338.05 | 1194.26 | -1974.97 | -3299.23 | 1738486.02 | 14409392.42 | 39°40'38.0163"N | 80°39'5.2271"W | 1.05 | |
| 9472.00 | 91.570 | 311.940 | 7334.73 | 1284.20 | -1915.67 | -3366.85 | 1738418.43 | 14409451.69 | 39°40'38.6049"N | 80°39'6.0890"W | 1.95 | |
| 9563.00 | 93.670 | 311.990 | 7330.57 | 1375.08 | -1854.89 | -3434.44 | 1738350.86 | 14409512.45 | 39°40'39.2082"N | 80°39'6.9504"W | 2.31 | |
| 9654.00 | 91.110 | 312.480 | 7326.78 | 1465.98 | -1793.78 | -3501.75 | 1738283.58 | 14409573.54 | 39°40'39.8147"N | 80°39'7.8083"W | 2.86 | |
| 9745.00 | 91.480 | 312.470 | 7324.72 | 1556.92 | -1732.35 | -3568.85 | 1738216.50 | 14409634.95 | 39°40'40.4244"N | 80°39'8.6634"W | 0.41 | |
| 9836.00 | 91.290 | 311.050 | 7322.52 | 1647.88 | -1671.76 | -3636.71 | 1738148.67 | 14409695.51 | 39°40'41.0258"N | 80°39'9.5283"W | 1.57 | |
| 9926.00 | 92.400 | 311.290 | 7319.63 | 1737.84 | -1612.55 | -3704.42 | 1738080.98 | 14409754.70 | 39°40'41.6136"N | 80°39'10.3914"W | 1.26 | |
| 10017.00 | 91.350 | 312.990 | 7316.65 | 1828.77 | -1551.53 | -3771.86 | 1738013.57 | 14409815.70 | 39°40'42.2192"N | 80°39'11.2509"W | 2.19 | |
| 10109.00 | 94.720 | 312.280 | 7311.78 | 1920.58 | -1489.31 | -3839.44 | 1737946.02 | 14409877.89 | 39°40'42.8367"N | 80°39'12.1121"W | 3.74 | |
| 10200.00 | 91.020 | 310.930 | 7307.22 | 2011.45 | -1428.97 | -3907.38 | 1737878.10 | 14409938.20 | 39°40'43.4355"N | 80°39'12.9782"W | 4.33 | |
| 10291.00 | 92.000 | 311.070 | 7304.82 | 2102.41 | -1369.29 | -3976.04 | 1737809.48 | 14409997.86 | 39°40'44.0280"N | 80°39'13.8533"W | 1.09 | |

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|-----------------------------|----------|--------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | SWN A WTZ 601H |
| Field | Wetzel WV | API | 47103034220000 |
| Facility | SWN A WTZ Pad | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | |

WELLPATH DATA (206 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------------|----------|
| 10384.00 | 91.750 | 311.080 | 7301.78 | 2195.37 | -1308.22 | -4046.11 | 1737739.43 | 14410058.91 | 39°40'44.6342"N | 80°39'14.7465"W | 0.27 | |
| 10476.00 | 91.260 | 311.510 | 7299.37 | 2287.33 | -1247.53 | -4115.20 | 1737670.36 | 14410119.58 | 39°40'45.2366"N | 80°39'15.6272"W | 0.71 | |
| 10567.00 | 91.910 | 310.540 | 7296.85 | 2378.30 | -1187.82 | -4183.83 | 1737601.76 | 14410179.26 | 39°40'45.8293"N | 80°39'16.5020"W | 1.28 | |
| 10659.00 | 92.400 | 310.940 | 7293.39 | 2470.23 | -1127.82 | -4253.49 | 1737532.13 | 14410239.24 | 39°40'46.4249"N | 80°39'17.3900"W | 0.69 | |
| 10751.00 | 91.230 | 311.110 | 7290.47 | 2562.18 | -1067.47 | -4322.86 | 1737462.79 | 14410299.57 | 39°40'47.0241"N | 80°39'18.2742"W | 1.29 | |
| 10842.00 | 93.420 | 310.720 | 7286.78 | 2653.10 | -1007.92 | -4391.56 | 1737394.11 | 14410359.09 | 39°40'47.6152"N | 80°39'19.1501"W | 2.44 | |
| 10932.00 | 91.050 | 309.440 | 7283.27 | 2743.01 | -950.02 | -4460.37 | 1737325.33 | 14410416.97 | 39°40'48.1900"N | 80°39'20.0272"W | 2.99 | |
| 11024.00 | 92.890 | 311.430 | 7280.11 | 2834.94 | -890.39 | -4530.35 | 1737255.38 | 14410476.57 | 39°40'48.7819"N | 80°39'20.9193"W | 2.94 | |
| 11116.00 | 90.800 | 312.080 | 7277.15 | 2926.88 | -829.16 | -4598.94 | 1737186.82 | 14410537.78 | 39°40'49.3896"N | 80°39'21.7936"W | 2.38 | |
| 11206.00 | 92.190 | 309.050 | 7274.80 | 3016.84 | -770.66 | -4667.27 | 1737118.51 | 14410596.26 | 39°40'49.9704"N | 80°39'22.6648"W | 3.70 | |
| 11298.00 | 90.620 | 310.290 | 7272.54 | 3108.78 | -711.95 | -4738.06 | 1737047.74 | 14410654.95 | 39°40'50.5533"N | 80°39'23.5674"W | 2.17 | |
| 11388.00 | 92.340 | 310.550 | 7270.22 | 3198.74 | -653.62 | -4806.56 | 1736979.28 | 14410713.26 | 39°40'51.1324"N | 80°39'24.4405"W | 1.93 | |
| 11478.00 | 90.430 | 309.570 | 7268.04 | 3288.70 | -595.72 | -4875.42 | 1736910.45 | 14410771.14 | 39°40'51.7072"N | 80°39'25.3184"W | 2.39 | |
| 11570.00 | 92.770 | 312.500 | 7265.48 | 3380.65 | -535.35 | -4944.77 | 1736841.11 | 14410831.48 | 39°40'52.3064"N | 80°39'26.2026"W | 4.07 | |
| 11660.00 | 91.320 | 307.970 | 7262.26 | 3470.55 | -477.27 | -5013.42 | 1736772.50 | 14410889.53 | 39°40'52.8830"N | 80°39'27.0777"W | 5.28 | |
| 11752.00 | 90.800 | 310.650 | 7260.56 | 3562.49 | -419.01 | -5084.58 | 1736701.36 | 14410947.78 | 39°40'53.4615"N | 80°39'27.9851"W | 2.97 | |
| 11843.00 | 92.490 | 309.930 | 7257.95 | 3653.44 | -360.19 | -5153.96 | 1736632.01 | 14411006.57 | 39°40'54.0454"N | 80°39'28.8696"W | 2.02 | |
| 11935.00 | 90.920 | 311.450 | 7255.21 | 3745.39 | -300.24 | -5223.69 | 1736562.31 | 14411066.50 | 39°40'54.6405"N | 80°39'29.7585"W | 2.37 | |
| 12026.00 | 90.950 | 309.110 | 7253.73 | 3836.37 | -241.41 | -5293.10 | 1736492.93 | 14411125.30 | 39°40'55.2244"N | 80°39'30.6434"W | 2.57 | |
| 12116.00 | 91.200 | 312.300 | 7252.04 | 3926.34 | -182.74 | -5361.30 | 1736424.75 | 14411183.95 | 39°40'55.8069"N | 80°39'31.5129"W | 3.55 | |
| 12207.00 | 91.850 | 310.760 | 7249.61 | 4017.30 | -122.43 | -5429.40 | 1736356.68 | 14411244.24 | 39°40'56.4055"N | 80°39'32.3810"W | 1.84 | |
| 12298.00 | 90.460 | 311.790 | 7247.78 | 4108.28 | -62.41 | -5497.77 | 1736288.33 | 14411304.23 | 39°40'57.0012"N | 80°39'33.2526"W | 1.90 | |
| 12388.00 | 92.120 | 312.180 | 7245.75 | 4198.24 | -2.22 | -5564.65 | 1736221.48 | 14411364.40 | 39°40'57.5985"N | 80°39'34.1051"W | 1.89 | |
| 12478.00 | 91.260 | 312.870 | 7243.10 | 4288.17 | 58.58 | -5630.95 | 1736155.21 | 14411425.18 | 39°40'58.2019"N | 80°39'34.9502"W | 1.22 | |
| 12568.00 | 90.800 | 312.530 | 7241.48 | 4378.11 | 119.60 | -5697.08 | 1736089.10 | 14411486.18 | 39°40'58.8075"N | 80°39'35.7931"W | 0.64 | |
| 12659.00 | 91.630 | 312.490 | 7239.55 | 4469.06 | 181.08 | -5764.15 | 1736022.06 | 14411547.63 | 39°40'59.4176"N | 80°39'36.6479"W | 0.91 | |
| 12750.00 | 90.800 | 312.020 | 7237.62 | 4560.02 | 242.26 | -5831.49 | 1735954.75 | 14411608.78 | 39°41'0.0247"N | 80°39'37.5062"W | 1.05 | |
| 12842.00 | 90.550 | 312.800 | 7236.54 | 4651.98 | 304.30 | -5899.41 | 1735886.85 | 14411670.80 | 39°41'0.6404"N | 80°39'38.3720"W | 0.89 | |
| 12934.00 | 89.820 | 310.950 | 7236.24 | 4743.96 | 365.71 | -5967.91 | 1735818.38 | 14411732.19 | 39°41'1.2498"N | 80°39'39.2452"W | 2.16 | |
| 13026.00 | 91.540 | 312.220 | 7235.15 | 4835.95 | 426.76 | -6036.71 | 1735749.60 | 14411793.22 | 39°41'1.8558"N | 80°39'40.1223"W | 2.32 | |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|--------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | SWN A WTZ 601H |
| Field | Wetzel WV | API | 47103034220000 |
| Facility | SWN A WTZ Pad | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | |

| WELLPATH DATA (206 stations) | | | | | | | | | | | | |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|---------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 13118.00 | 90.770 | 308.470 | 7233.29 | 4927.91 | 486.30 | -6106.81 | 1735679.54 | 14411852.73 | 39°41'2.4468"N | 80°39'41.0160"W | 4.16 | |
| 13209.00 | 89.630 | 312.170 | 7232.98 | 5018.88 | 545.17 | -6176.17 | 1735610.20 | 14411911.58 | 39°41'3.0312"N | 80°39'41.9004"W | 4.25 | |
| 13300.00 | 89.570 | 311.990 | 7233.61 | 5109.86 | 606.15 | -6243.71 | 1735542.68 | 14411972.54 | 39°41'3.6364"N | 80°39'42.7614"W | 0.21 | |
| 13390.00 | 89.940 | 311.730 | 7234.00 | 5199.85 | 666.21 | -6310.74 | 1735475.68 | 14412032.57 | 39°41'4.2324"N | 80°39'43.6158"W | 0.50 | |
| 13483.00 | 92.000 | 313.150 | 7232.42 | 5292.80 | 728.95 | -6379.36 | 1735407.09 | 14412095.29 | 39°41'4.8550"N | 80°39'44.4905"W | 2.69 | |
| 13574.00 | 89.970 | 310.550 | 7230.86 | 5383.77 | 789.65 | -6447.13 | 1735339.35 | 14412155.96 | 39°41'5.4574"N | 80°39'45.3544"W | 3.62 | |
| 13667.00 | 90.860 | 312.820 | 7230.18 | 5476.75 | 851.49 | -6516.57 | 1735269.93 | 14412217.78 | 39°41'6.0712"N | 80°39'46.2397"W | 2.62 | |
| 13758.00 | 91.380 | 313.710 | 7228.41 | 5567.66 | 913.85 | -6582.83 | 1735203.70 | 14412280.11 | 39°41'6.6899"N | 80°39'47.0841"W | 1.13 | |
| 13848.00 | 91.630 | 310.740 | 7226.04 | 5657.60 | 974.31 | -6649.44 | 1735137.11 | 14412340.54 | 39°41'7.2898"N | 80°39'47.9333"W | 3.31 | |
| 13938.00 | 90.830 | 310.510 | 7224.11 | 5747.57 | 1032.89 | -6717.73 | 1735068.85 | 14412399.11 | 39°41'7.8713"N | 80°39'48.8040"W | 0.92 | |
| 14029.00 | 89.510 | 310.350 | 7223.84 | 5838.57 | 1091.90 | -6787.00 | 1734999.61 | 14412458.10 | 39°41'8.4571"N | 80°39'49.6872"W | 1.46 | |
| 14120.00 | 92.490 | 310.030 | 7222.25 | 5929.53 | 1150.61 | -6856.50 | 1734930.14 | 14412516.78 | 39°41'9.0399"N | 80°39'50.5733"W | 3.29 | |
| 14212.00 | 89.450 | 308.660 | 7220.69 | 6021.47 | 1208.92 | -6927.63 | 1734859.04 | 14412575.07 | 39°41'9.6188"N | 80°39'51.4803"W | 3.62 | |
| 14302.00 | 90.680 | 312.230 | 7220.59 | 6111.45 | 1267.30 | -6996.11 | 1734790.58 | 14412633.42 | 39°41'10.1982"N | 80°39'52.3535"W | 4.20 | |
| 14392.00 | 91.290 | 309.980 | 7219.04 | 6201.43 | 1326.45 | -7063.91 | 1734722.81 | 14412692.56 | 39°41'10.7854"N | 80°39'53.2179"W | 2.59 | |
| 14484.00 | 90.460 | 309.520 | 7217.64 | 6293.40 | 1385.27 | -7134.63 | 1734652.11 | 14412751.35 | 39°41'11.3693"N | 80°39'54.1197"W | 1.03 | |
| 14575.00 | 89.850 | 310.310 | 7217.39 | 6384.38 | 1443.66 | -7204.43 | 1734582.35 | 14412809.72 | 39°41'11.9489"N | 80°39'55.0097"W | 1.10 | |
| 14667.00 | 90.120 | 308.750 | 7217.42 | 6476.35 | 1502.22 | -7275.38 | 1734511.42 | 14412868.25 | 39°41'12.5302"N | 80°39'55.9146"W | 1.72 | |
| 14759.00 | 91.170 | 313.620 | 7216.38 | 6568.31 | 1562.78 | -7344.59 | 1734442.23 | 14412928.79 | 39°41'13.1313"N | 80°39'56.7970"W | 5.41 | |
| 14850.00 | 92.710 | 310.810 | 7213.30 | 6659.23 | 1623.88 | -7411.94 | 1734374.91 | 14412989.87 | 39°41'13.7376"N | 80°39'57.6556"W | 3.52 | |
| 14943.00 | 90.090 | 310.620 | 7211.03 | 6752.19 | 1684.52 | -7482.41 | 1734304.47 | 14413050.48 | 39°41'14.3395"N | 80°39'58.5540"W | 2.82 | |
| 15034.00 | 89.720 | 310.120 | 7211.18 | 6843.18 | 1743.46 | -7551.74 | 1734235.17 | 14413109.40 | 39°41'14.9245"N | 80°39'59.4380"W | 0.68 | |
| 15126.00 | 89.020 | 311.500 | 7212.19 | 6935.17 | 1803.58 | -7621.36 | 1734165.57 | 14413169.50 | 39°41'15.5213"N | 80°40'0.3258"W | 1.68 | |
| 15216.00 | 94.500 | 313.200 | 7209.43 | 7025.07 | 1864.16 | -7687.82 | 1734099.14 | 14413230.05 | 39°41'16.1223"N | 80°40'1.1730"W | 6.37 | |
| 15307.00 | 90.090 | 309.920 | 7205.78 | 7115.96 | 1924.45 | -7755.83 | 1734031.15 | 14413290.32 | 39°41'16.7207"N | 80°40'2.0401"W | 6.04 | |
| 15398.00 | 90.710 | 311.180 | 7205.15 | 7206.95 | 1983.61 | -7824.98 | 1733962.04 | 14413349.45 | 39°41'17.3079"N | 80°40'2.9218"W | 1.54 | |
| 15489.00 | 89.850 | 311.450 | 7204.70 | 7297.95 | 2043.69 | -7893.32 | 1733893.72 | 14413409.51 | 39°41'17.9041"N | 80°40'3.7932"W | 0.99 | |
| 15582.00 | 92.490 | 310.860 | 7202.80 | 7390.92 | 2104.87 | -7963.33 | 1733823.74 | 14413470.67 | 39°41'18.5114"N | 80°40'4.6857"W | 2.91 | |
| 15673.00 | 89.850 | 307.000 | 7200.95 | 7481.81 | 2162.02 | -8034.08 | 1733753.01 | 14413527.80 | 39°41'19.0788"N | 80°40'5.5881"W | 5.14 | |
| 15764.00 | 89.110 | 311.370 | 7201.77 | 7572.74 | 2219.50 | -8104.60 | 1733682.53 | 14413585.26 | 39°41'19.6494"N | 80°40'6.4874"W | 4.87 | |

| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|-----------------------------|--|----------|--------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | | Well | SWN A WTZ 601H |
| Field | Wetzel WV | | API | 47103034220000 |
| Facility | SWN A WTZ Pad | | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | | |

| WELLPATH DATA (206 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 | DLS [°/100ft] | Comments |
| 15857.00 | 91.850 | 310.620 | 7200.99 | 7665.73 | 2280.50 | -8174.78 | 1733612.37 | 14413646.23 | 39°41'20.2548"N | 80°40'7.3823"W | 3.05 | |
| 15948.00 | 90.650 | 311.810 | 7199.01 | 7756.70 | 2340.44 | -8243.22 | 1733543.96 | 14413706.15 | 39°41'20.8497"N | 80°40'8.2549"W | 1.86 | |
| 16040.00 | 90.340 | 312.040 | 7198.21 | 7848.69 | 2401.91 | -8311.66 | 1733475.54 | 14413767.59 | 39°41'21.4597"N | 80°40'9.1275"W | 0.42 | |
| 16131.00 | 90.710 | 311.440 | 7197.38 | 7939.68 | 2462.49 | -8379.56 | 1733407.67 | 14413828.15 | 39°41'22.0609"N | 80°40'9.9932"W | 0.77 | |
| 16223.00 | 90.370 | 311.320 | 7196.51 | 8031.67 | 2523.31 | -8448.59 | 1733338.67 | 14413888.94 | 39°41'22.6644"N | 80°40'10.8734"W | 0.39 | |
| 16314.00 | 90.620 | 311.390 | 7195.73 | 8122.66 | 2583.43 | -8516.89 | 1733270.39 | 14413949.04 | 39°41'23.2611"N | 80°40'11.7443"W | 0.29 | |
| 16406.00 | 91.020 | 312.090 | 7194.41 | 8214.65 | 2644.67 | -8585.53 | 1733201.78 | 14414010.26 | 39°41'23.8688"N | 80°40'12.6194"W | 0.88 | |
| 16496.00 | 90.340 | 310.590 | 7193.34 | 8304.64 | 2704.11 | -8653.10 | 1733134.24 | 14414069.68 | 39°41'24.4587"N | 80°40'13.4809"W | 1.83 | |
| 16589.00 | 90.770 | 310.920 | 7192.44 | 8397.63 | 2764.82 | -8723.54 | 1733063.82 | 14414130.36 | 39°41'25.0612"N | 80°40'14.3792"W | 0.58 | |
| 16680.00 | 91.570 | 312.090 | 7190.58 | 8488.60 | 2825.11 | -8791.68 | 1732995.71 | 14414190.63 | 39°41'25.6595"N | 80°40'15.2479"W | 1.56 | |
| 16771.00 | 91.540 | 311.160 | 7188.11 | 8579.56 | 2885.54 | -8859.68 | 1732927.74 | 14414251.03 | 39°41'26.2592"N | 80°40'16.1149"W | 1.02 | |
| 16864.00 | 91.450 | 310.340 | 7185.69 | 8672.53 | 2946.22 | -8930.10 | 1732857.34 | 14414311.69 | 39°41'26.8615"N | 80°40'17.0130"W | 0.89 | |
| 16956.00 | 91.480 | 309.190 | 7183.33 | 8764.48 | 3005.05 | -9000.80 | 1732786.67 | 14414370.50 | 39°41'27.4454"N | 80°40'17.9146"W | 1.25 | |
| 17047.00 | 91.080 | 309.530 | 7181.30 | 8855.42 | 3062.75 | -9071.14 | 1732716.36 | 14414428.17 | 39°41'28.0181"N | 80°40'18.8117"W | 0.58 | |
| 17139.00 | 91.200 | 309.200 | 7179.47 | 8947.36 | 3121.09 | -9142.25 | 1732645.28 | 14414486.49 | 39°41'28.5973"N | 80°40'19.7186"W | 0.38 | |
| 17232.00 | 90.830 | 309.110 | 7177.82 | 9040.30 | 3179.80 | -9214.36 | 1732573.20 | 14414545.18 | 39°41'29.1801"N | 80°40'20.6383"W | 0.41 | |
| 17323.00 | 91.260 | 309.300 | 7176.16 | 9131.24 | 3237.31 | -9284.86 | 1732502.72 | 14414602.67 | 39°41'29.7510"N | 80°40'21.5375"W | 0.52 | |
| 17414.00 | 91.690 | 309.600 | 7173.82 | 9222.18 | 3295.11 | -9355.10 | 1732432.51 | 14414660.45 | 39°41'30.3248"N | 80°40'22.4334"W | 0.58 | |
| 17504.00 | 91.350 | 309.160 | 7171.43 | 9312.11 | 3352.19 | -9424.65 | 1732362.99 | 14414717.51 | 39°41'30.8914"N | 80°40'23.3203"W | 0.62 | |
| 17595.00 | 90.490 | 309.050 | 7169.97 | 9403.05 | 3409.58 | -9495.25 | 1732292.41 | 14414774.87 | 39°41'31.4612"N | 80°40'24.2208"W | 0.95 | |
| 17685.00 | 91.320 | 308.610 | 7168.55 | 9492.97 | 3466.01 | -9565.35 | 1732222.34 | 14414831.27 | 39°41'32.0213"N | 80°40'25.1150"W | 1.04 | |
| 17775.00 | 91.750 | 309.360 | 7166.14 | 9582.88 | 3522.61 | -9635.29 | 1732152.43 | 14414887.85 | 39°41'32.5832"N | 80°40'26.0069"W | 0.96 | |
| 17867.00 | 90.280 | 311.620 | 7164.51 | 9674.85 | 3582.33 | -9705.24 | 1732082.51 | 14414947.55 | 39°41'33.1759"N | 80°40'26.8990"W | 2.93 | |
| 17959.00 | 92.090 | 310.010 | 7162.61 | 9766.83 | 3642.44 | -9774.84 | 1732012.93 | 14415007.64 | 39°41'33.7725"N | 80°40'27.7866"W | 2.63 | |
| 18005.00 | 89.780 | 310.080 | 7161.86 | 9812.81 | 3672.03 | -9810.05 | 1731977.74 | 14415037.22 | 39°41'34.0662"N | 80°40'28.2356"W | 5.02 | |
| 18030.00‡ | 89.780 | 310.080 | 7161.95 | 9837.81 | 3688.13 | -9829.18 | 1731958.62 | 14415053.31 | 39°41'34.2260"N | 80°40'28.4796"W | 0.00 | Proj to TD |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|--------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | SWN A WTZ 601H |
| Field | Wetzel WV | API | 47103034220000 |
| Facility | SWN A WTZ Pad | Wellbore | SWN A WTZ 601H AWB |
| Slot | Slot 601H | | |

| TARGETS | | | | | | | | |
|--------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------|
| Name | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
| SWN A WTZ 601H BHL Rev 3 | 7160.00 | 3706.50 | -9814.67 | 1731973.12 | 14415071.68 | 39°41'34.4070"N | 80°40'28.2931"W | point |
| SWN A WTZ 601H LP Rev 3 | 7369.00 | -2394.55 | -2795.05 | 1738990.00 | 14408973.00 | 39°40'33.8502"N | 80°38'58.7999"W | point |

| WELLPATH COMPOSITION - Ref Wellbore: SWN A WTZ 601H AWB Ref Wellpath: SWN A WTZ 601H awp 50' - 18005' Proj: 18030' | | | | | | |
|--|-------------|--|---------------------------|--------------------|-------------|--|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore | Survey Date | |
| 26.00 | 381.00 | Gyrodata 2015 - GC+WIR+DPIPE | 1 Gyro 50' - 381' | SWN A WTZ 601H AWB | 2/27/2022 | |
| 381.00 | 2877.00 | OWSG MWD rev2 + HRGM | 2 Tally MWD 420' - 2877' | SWN A WTZ 601H AWB | 2/27/2022 | |
| 2877.00 | 6091.00 | OWSG MWD rev2 + HRGM | 3 Tally MWD 2969' - 6091' | SWN A WTZ 601H AWB | 2/27/2022 | |
| 6091.00 | 18030.00 | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 4 BH MWD 6191' - 18005' | SWN A WTZ 601H AWB | 2/27/2022 | |



RECEIVED
 Office of Oil and Gas
 AUG 04 2022
 WV Department of
 Environmental Protection

Well Name: SWN A WTZ 601H

47103034220000

| LITHOLOGY/FORMATION | TOP DEPTH, MD (FT) | TOP DEPTH, TVD (FT) | BOTTOM DEPTH, MD (FT) | BOTTOM DEPTH, TVD (FT) | QUANTITY AND TYPE OF FLUID |
|---------------------|--------------------|---------------------|-----------------------|------------------------|----------------------------|
| Base of Fresh Water | 0.00 | 0.00 | 307.00 | 307.00 | |
| Top of Salt Water | 1342.00 | 1342.00 | NA | NA | |
| Pittsburgh Coal | 1249.00 | 1247.00 | 1255.00 | 1252.00 | |
| Pottsville (ss) | 1315.00 | 1313.00 | 1782.00 | 1778.00 | |
| Raven Cliff (ss) | 1782.00 | 1778.00 | 2107.00 | 2097.00 | |
| Maxton (ss) | 2270.00 | 2255.00 | 2458.00 | 2432.00 | |
| Big Injun (ss) | 2458.00 | 2432.00 | 2726.00 | 2678.00 | |
| Berea (siltstone) | 3101.00 | 3033.00 | 3126.00 | 3056.00 | |
| Rhinestreet (shale) | 7520.00 | 6685.00 | 7896.00 | 6997.00 | |
| Cashaqua (shale) | 7896.00 | 6997.00 | 8053.00 | 7115.00 | |
| Middlesex (shale) | 8053.00 | 7115.00 | 8196.00 | 7211.00 | |
| Burket (shale) | 8196.00 | 7211.00 | 8239.00 | 7236.00 | |
| Tully (ls) | 8239.00 | 7236.00 | 8280.00 | 7260.00 | |
| Mahantango (shale) | 8280.00 | 7260.00 | 8494.00 | 7342.00 | |
| Marcellus (shale) | 8494.00 | 7342.00 | NA | NA | GAS |