

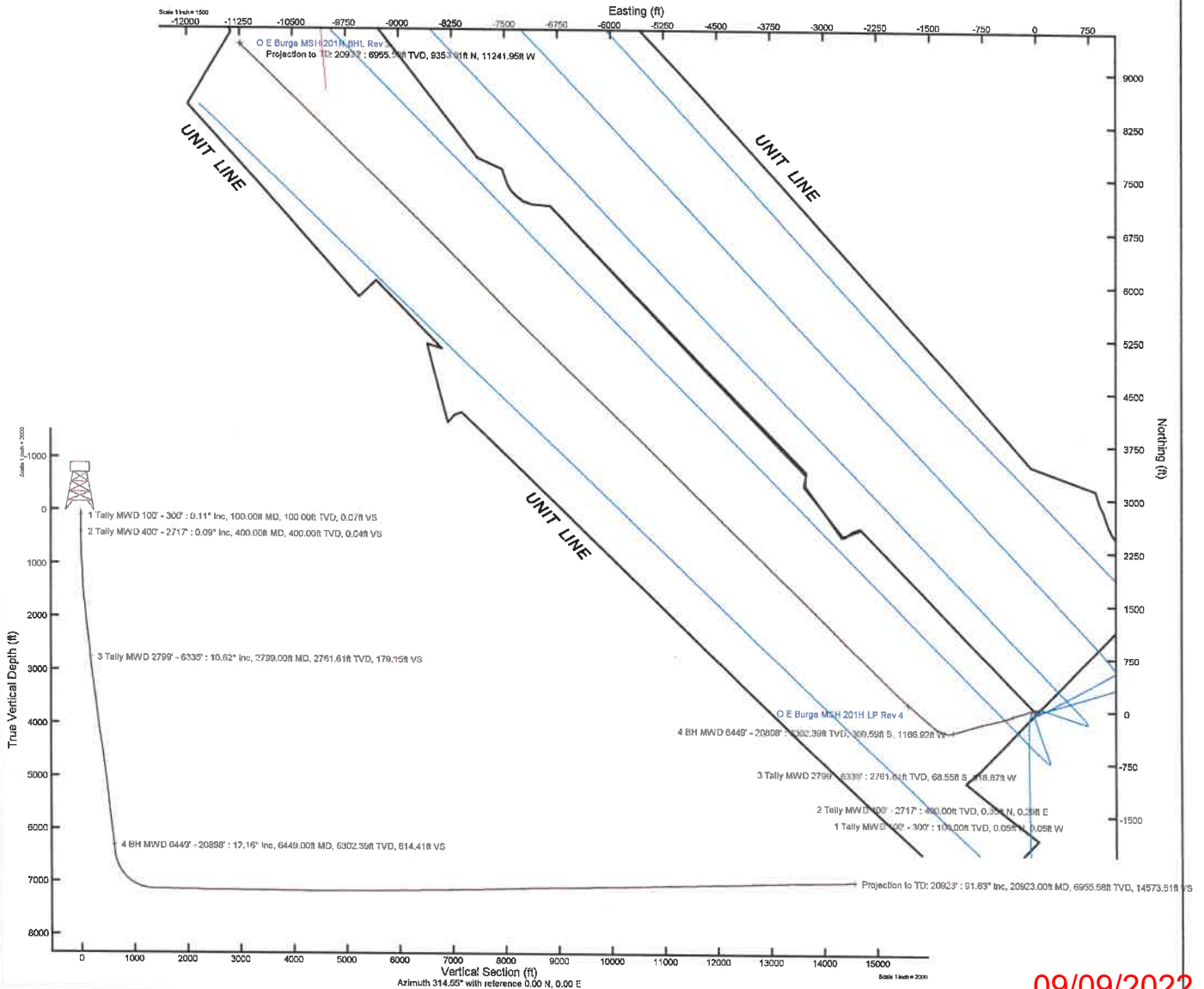
Location Information

| Facility Name | | | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|-----------------------------------------------------------------------------------|--------------|--------------|-------------------|--------------------------------------------------------------------|----------------|-----------------|
| O E Burge MSH Pad | | | 1743922.680 | 14436242.940 | 39°45'3.2616"N | 80°37'54.2568"W |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| Slot 201H | 7.30 | -17.02 | 1743905.670 | 14436250.240 | 39°45'3.3344"N | 80°37'54.4743"W |
| SDC 41 (KB) to Mud line (At Slot: Slot 201H) | | | | | 28ft | |
| Mean Sea Level to Mud line (At Slot: Slot 201H) | | | | | -1342.1ft | |
| SDC 41 (KB) to Mean Sea Level | | | | | 1368.1ft | |
| Plot reference wellpath is O E Burge MSH 201H AWB_ awp 100' - 20898' Proj: 20923' | | | | Grid System: NAD83 / UTM Zone 17 North, US feet | | |
| True vertical depths are referenced to SDC 41 (KB) | | | | North Reference: Grid north | | |
| Reference wellpath measured depths are referenced to SDC 41 (KB) | | | | Scale: True distance | | |
| SDC 41 (KB) to Mean Sea Level: 1368.1 feet | | | | Coordinates are in feet referenced to Slot | | |
| Mean Sea Level to Mud line (At Slot: Slot 201H): -1342.1 feet | | | | Depths are in feet | | |
| Offset wellpath MDs are referenced to each path's default MD datum | | | | Created by: Iranlam on 2021-10-22; Database: WA_MPL_EASTERNUS_Defn | | |

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 |
|----------|---------|---------|----------|--------------|--------------|-------------------|--------------------|-----------------|-----------------|
| 20923.00 | 91.630 | 314.360 | 6955.58 | 9353.91 | -11241.95 | 1732668.10 | 14445800.51 | 39°46'36.2080"N | 80°40'17.9679"W |

API: 47051023890000
Duration: 10.14.2021-10.18.201
Rig SDC 41
BH Job: 111048028



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| 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 | 10/22/2021 at 3:34:57 PM |
| Convergence at slot | 0.24° 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 | 7.30 | -17.02 | 1743905.67 | 14436250.24 | 39°45'3.3344"N | 80°37'54.4743"W |
| Facility Reference Pt | | | 1743922.68 | 14436242.94 | 39°45'3.2616"N | 80°37'54.2568"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 (KB) to Facility Vertical Datum | 1368.10ft |
| Horizontal Reference Pt | Slot | SDC 41 (KB) to Mean Sea Level | 1368.10ft |
| Vertical Reference Pt | SDC 41 (KB) | SDC 41 (KB) to Mud Line at Slot (Slot 201H) | 26.00ft |
| MD Reference Pt | SDC 41 (KB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 314.55° |

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Environmental Protection



Actual Wellpath Report

O E Burge MSH 201H AWB_ awp 100' - 20898' Proj: 20923'
Page 2 of 10



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| WELLPATH DATA (233 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|-------------------|-----------------|---------------|--|
| MD [ft] | Course Length [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 | 0.00 | 0.000 | 316.760 | 0.00 | 0.00 | 0.00 | 0.00 | 1743905.67 | 14436250.24 | 39°45'3.3344"N | 80°37'54.4743"W | 0.00 | 0.000 | 0.00 | |
| 26.00 | 26.00 | 0.000 | 316.760 | 26.00 | 0.00 | 0.00 | 0.00 | 1743905.67 | 14436250.24 | 39°45'3.3344"N | 80°37'54.4743"W | 0.00 | 0.000 | 0.00 | |
| 100.00 | 74.00 | 0.110 | 316.760 | 100.00 | 0.07 | 0.05 | -0.05 | 1743905.62 | 14436250.29 | 39°45'3.3349"N | 80°37'54.4749"W | 0.07 | 316.760 | 0.15 | |
| 200.00 | 100.00 | 0.140 | 62.970 | 200.00 | 0.13 | 0.18 | -0.01 | 1743905.66 | 14436250.42 | 39°45'3.3362"N | 80°37'54.4744"W | 0.18 | 358.191 | 0.20 | |
| 300.00 | 100.00 | 0.080 | 64.810 | 300.00 | 0.07 | 0.26 | 0.17 | 1743905.84 | 14436250.50 | 39°45'3.3370"N | 80°37'54.4722"W | 0.31 | 32.340 | 0.06 | |
| 400.00 | 100.00 | 0.090 | 47.130 | 400.00 | 0.04 | 0.35 | 0.29 | 1743905.96 | 14436250.59 | 39°45'3.3378"N | 80°37'54.4706"W | 0.45 | 39.666 | 0.03 | |
| 500.00 | 100.00 | 1.290 | 40.360 | 499.99 | 0.12 | 1.26 | 1.07 | 1743906.74 | 14436251.50 | 39°45'3.3468"N | 80°37'54.4605"W | 1.65 | 40.492 | 1.20 | |
| 600.00 | 100.00 | 2.500 | 27.830 | 599.93 | 0.83 | 4.04 | 2.82 | 1743908.49 | 14436254.28 | 39°45'3.3743"N | 80°37'54.4380"W | 4.93 | 34.897 | 1.27 | |
| 700.00 | 100.00 | 3.810 | 19.550 | 699.78 | 2.86 | 9.10 | 4.95 | 1743910.62 | 14436259.34 | 39°45'3.4242"N | 80°37'54.4105"W | 10.36 | 28.538 | 1.38 | |
| 770.00 | 70.00 | 4.730 | 20.350 | 769.59 | 5.02 | 14.00 | 6.73 | 1743912.40 | 14436264.24 | 39°45'3.4725"N | 80°37'54.3874"W | 15.54 | 25.681 | 1.32 | |
| 878.00 | 108.00 | 3.380 | 356.760 | 877.32 | 9.21 | 21.36 | 8.10 | 1743913.77 | 14436271.59 | 39°45'3.5451"N | 80°37'54.3695"W | 22.84 | 20.775 | 1.96 | |
| 969.00 | 91.00 | 3.730 | 321.660 | 968.16 | 14.13 | 26.36 | 6.11 | 1743911.78 | 14436276.59 | 39°45'3.5946"N | 80°37'54.3947"W | 27.06 | 13.059 | 2.38 | |
| 1061.00 | 92.00 | 4.870 | 294.450 | 1059.90 | 20.77 | 30.32 | 0.70 | 1743906.37 | 14436280.55 | 39°45'3.6340"N | 80°37'54.4638"W | 30.33 | 1.325 | 2.51 | |
| 1152.00 | 91.00 | 5.260 | 271.740 | 1150.56 | 27.46 | 32.05 | -6.99 | 1743898.69 | 14436282.27 | 39°45'3.6514"N | 80°37'54.5621"W | 32.80 | 347.703 | 2.23 | |
| 1244.00 | 92.00 | 5.800 | 249.910 | 1242.14 | 32.54 | 30.58 | -15.57 | 1743890.11 | 14436280.81 | 39°45'3.6372"N | 80°37'54.6720"W | 34.31 | 333.019 | 2.34 | |
| 1336.00 | 92.00 | 6.090 | 239.420 | 1333.65 | 35.79 | 26.50 | -24.13 | 1743881.54 | 14436276.73 | 39°45'3.5973"N | 80°37'54.7819"W | 35.84 | 317.672 | 1.22 | |
| 1428.00 | 92.00 | 5.650 | 244.880 | 1425.17 | 38.61 | 22.09 | -32.44 | 1743873.25 | 14436272.32 | 39°45'3.5541"N | 80°37'54.8885"W | 39.25 | 304.258 | 0.77 | |
| 1519.00 | 91.00 | 7.390 | 254.940 | 1515.58 | 43.13 | 18.67 | -42.14 | 1743863.54 | 14436268.90 | 39°45'3.5206"N | 80°37'55.0129"W | 46.09 | 293.893 | 2.28 | |
| 1610.00 | 91.00 | 10.260 | 256.690 | 1605.49 | 50.40 | 15.28 | -55.69 | 1743850.01 | 14436265.52 | 39°45'3.4877"N | 80°37'55.1865"W | 57.74 | 285.346 | 3.17 | |
| 1701.00 | 91.00 | 13.320 | 256.470 | 1694.56 | 60.26 | 10.96 | -73.77 | 1743831.93 | 14436261.20 | 39°45'3.4458"N | 80°37'55.4182"W | 74.58 | 278.453 | 3.36 | |
| 1793.00 | 92.00 | 15.390 | 253.910 | 1783.68 | 71.85 | 5.10 | -95.80 | 1743809.90 | 14436255.34 | 39°45'3.3887"N | 80°37'55.7006"W | 95.94 | 273.047 | 2.35 | |
| 1885.00 | 92.00 | 13.580 | 249.230 | 1872.76 | 82.35 | -2.11 | -117.64 | 1743788.08 | 14436248.13 | 39°45'3.3183"N | 80°37'55.9805"W | 117.65 | 268.970 | 2.34 | |
| 1975.00 | 90.00 | 12.720 | 246.440 | 1960.40 | 90.45 | -9.92 | -136.60 | 1743769.13 | 14436240.42 | 39°45'3.2429"N | 80°37'56.2237"W | 136.95 | 265.887 | 1.19 | |
| 2066.00 | 91.00 | 13.220 | 248.100 | 2049.08 | 98.35 | -17.71 | -155.44 | 1743750.29 | 14436232.54 | 39°45'3.1657"N | 80°37'56.4653"W | 156.44 | 263.501 | 0.69 | |
| 2158.00 | 92.00 | 14.150 | 250.780 | 2138.47 | 107.52 | -25.33 | -175.82 | 1743729.92 | 14436224.92 | 39°45'3.0912"N | 80°37'56.7266"W | 177.63 | 261.800 | 1.22 | |
| 2249.00 | 91.00 | 15.380 | 254.430 | 2226.46 | 118.45 | -32.24 | -197.94 | 1743707.80 | 14436218.02 | 39°45'3.0239"N | 80°37'57.0103"W | 200.56 | 260.751 | 1.69 | |
| 2340.00 | 91.00 | 14.840 | 256.770 | 2314.31 | 130.67 | -38.14 | -220.91 | 1743684.84 | 14436212.11 | 39°45'2.9664"N | 80°37'57.3047"W | 224.18 | 260.204 | 0.90 | |
| 2429.00 | 89.00 | 13.880 | 255.280 | 2400.53 | 142.21 | -43.46 | -242.33 | 1743663.43 | 14436206.79 | 39°45'2.9147"N | 80°37'57.5792"W | 246.20 | 259.832 | 1.16 | |
| 2518.00 | 89.00 | 13.380 | 252.860 | 2487.03 | 152.54 | -49.21 | -262.50 | 1743643.27 | 14436201.05 | 39°45'2.8587"N | 80°37'57.8377"W | 267.07 | 259.382 | 0.85 | |
| 2607.00 | 89.00 | 12.660 | 250.830 | 2573.74 | 161.75 | -55.45 | -281.55 | 1743624.23 | 14436194.81 | 39°45'2.7979"N | 80°37'58.0820"W | 286.96 | 258.859 | 0.96 | |

| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|-----------------------------|--|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | | Well | O E Burge MSH 201H |
| Field | Marshall | | API | 4705102389000 |
| Facility | O E Burge MSH Pad | | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | | |

| WELLPATH DATA (233 stations) | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|-------------------|-----------------|---------------|
| MD [ft] | Course Length [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] |
| 2697.00 | 90.00 | 12.250 | 251.440 | 2661.62 | 170.43 | -61.72 | -299.92 | 1743605.87 | 14436188.54 | 39°45'2.7366"N | 80°37'58.3175"W | 306.20 | 258.371 | 0.48 |
| 2717.00 | 20.00 | 11.840 | 250.970 | 2681.18 | 172.30 | -63.07 | -303.87 | 1743601.92 | 14436187.20 | 39°45'2.7235"N | 80°37'58.3681"W | 310.35 | 258.275 | 2.11 |
| 2799.00 | 82.00 | 10.620 | 248.790 | 2761.61 | 179.15 | -68.55 | -318.87 | 1743586.93 | 14436181.72 | 39°45'2.6699"N | 80°37'58.5604"W | 326.15 | 257.868 | 1.58 |
| 2890.00 | 91.00 | 12.160 | 247.660 | 2850.81 | 186.35 | -75.22 | -335.55 | 1743570.25 | 14436175.05 | 39°45'2.6046"N | 80°37'58.7744"W | 343.88 | 257.364 | 1.71 |
| 2985.00 | 95.00 | 14.150 | 249.900 | 2943.32 | 195.25 | -83.02 | -355.71 | 1743550.10 | 14436167.25 | 39°45'2.5284"N | 80°37'59.0329"W | 365.27 | 256.863 | 2.16 |
| 3077.00 | 92.00 | 15.350 | 252.490 | 3032.29 | 205.78 | -90.55 | -377.89 | 1743527.93 | 14436159.73 | 39°45'2.4549"N | 80°37'59.3172"W | 388.58 | 256.525 | 1.49 |
| 3169.00 | 92.00 | 15.310 | 253.190 | 3121.01 | 217.30 | -97.72 | -401.13 | 1743504.70 | 14436152.56 | 39°45'2.3849"N | 80°37'59.6151"W | 412.86 | 256.308 | 0.21 |
| 3260.00 | 91.00 | 14.360 | 255.700 | 3208.98 | 228.90 | -103.98 | -423.56 | 1743482.27 | 14436146.30 | 39°45'2.3239"N | 80°37'59.9027"W | 438.14 | 256.207 | 1.26 |
| 3350.00 | 90.00 | 15.230 | 254.570 | 3295.99 | 240.59 | -109.89 | -445.77 | 1743460.07 | 14436140.40 | 39°45'2.2665"N | 80°38'0.1874"W | 459.12 | 256.152 | 1.02 |
| 3441.00 | 91.00 | 16.680 | 252.490 | 3383.49 | 252.69 | -117.00 | -469.75 | 1743436.10 | 14436133.29 | 39°45'2.1972"N | 80°38'0.4947"W | 484.10 | 256.014 | 1.71 |
| 3532.00 | 91.00 | 16.090 | 252.000 | 3470.79 | 264.62 | -124.82 | -494.20 | 1743411.86 | 14436125.47 | 39°45'2.1209"N | 80°38'0.8081"W | 509.72 | 255.825 | 0.67 |
| 3622.00 | 90.00 | 14.950 | 254.830 | 3557.51 | 276.22 | -131.71 | -517.26 | 1743388.61 | 14436118.58 | 39°45'2.0537"N | 80°38'1.1038"W | 533.77 | 255.714 | 1.52 |
| 3713.00 | 91.00 | 13.400 | 258.700 | 3645.74 | 288.06 | -136.85 | -538.94 | 1743366.94 | 14436113.44 | 39°45'2.0038"N | 80°38'1.3816"W | 556.04 | 255.752 | 2.00 |
| 3805.00 | 92.00 | 11.850 | 256.050 | 3735.51 | 298.98 | -141.22 | -558.56 | 1743347.33 | 14436109.08 | 39°45'1.9614"N | 80°38'1.6330"W | 576.13 | 255.811 | 1.80 |
| 3896.00 | 91.00 | 12.530 | 253.260 | 3824.46 | 308.60 | -146.32 | -577.08 | 1743328.82 | 14436103.98 | 39°45'1.9118"N | 80°38'1.8704"W | 595.34 | 255.773 | 0.99 |
| 3988.00 | 92.00 | 13.720 | 253.640 | 3914.05 | 318.70 | -152.26 | -597.11 | 1743308.80 | 14436098.04 | 39°45'1.8538"N | 80°38'2.1271"W | 616.21 | 255.694 | 1.30 |
| 4083.00 | 95.00 | 14.250 | 255.800 | 4006.24 | 330.25 | -158.30 | -619.25 | 1743286.66 | 14436092.00 | 39°45'1.7950"N | 80°38'2.4110"W | 639.16 | 255.660 | 0.78 |
| 4175.00 | 92.00 | 15.380 | 257.760 | 4095.18 | 342.80 | -163.67 | -642.15 | 1743263.77 | 14436086.64 | 39°45'1.7429"N | 80°38'2.7044"W | 662.68 | 255.701 | 1.34 |
| 4267.00 | 92.00 | 16.240 | 258.690 | 4183.70 | 356.71 | -168.78 | -666.69 | 1743239.24 | 14436081.53 | 39°45'1.6934"N | 80°38'3.0189"W | 687.72 | 255.794 | 0.97 |
| 4357.00 | 90.00 | 16.730 | 256.770 | 4270.00 | 370.67 | -174.21 | -691.64 | 1743214.30 | 14436076.10 | 39°45'1.6407"N | 80°38'3.3386"W | 713.24 | 255.862 | 0.81 |
| 4450.00 | 93.00 | 16.040 | 256.430 | 4359.22 | 384.60 | -180.29 | -717.16 | 1743188.79 | 14436070.02 | 39°45'1.5817"N | 80°38'3.6656"W | 739.47 | 255.899 | 0.75 |
| 4543.00 | 93.00 | 15.400 | 254.930 | 4448.74 | 397.63 | -186.51 | -741.57 | 1743164.39 | 14436063.80 | 39°45'1.5212"N | 80°38'3.9785"W | 764.67 | 255.882 | 0.82 |
| 4635.00 | 92.00 | 15.340 | 254.480 | 4537.45 | 409.88 | -192.95 | -765.09 | 1743140.87 | 14436057.37 | 39°45'1.4585"N | 80°38'4.2800"W | 789.05 | 255.846 | 0.15 |
| 4728.00 | 93.00 | 14.480 | 255.890 | 4627.32 | 422.06 | -199.07 | -788.22 | 1743117.75 | 14436051.24 | 39°45'1.3989"N | 80°38'4.5765"W | 812.97 | 255.826 | 1.00 |
| 4820.00 | 92.00 | 13.380 | 254.330 | 4716.61 | 433.33 | -204.75 | -809.63 | 1743096.36 | 14436045.57 | 39°45'1.3437"N | 80°38'4.8508"W | 835.12 | 255.808 | 1.26 |
| 4915.00 | 95.00 | 13.270 | 253.900 | 4809.06 | 444.14 | -210.74 | -830.69 | 1743075.31 | 14436039.58 | 39°45'1.2853"N | 80°38'5.1207"W | 857.00 | 255.764 | 0.16 |
| 5006.00 | 91.00 | 13.790 | 254.330 | 4897.53 | 454.64 | -216.57 | -851.17 | 1743054.84 | 14436033.75 | 39°45'1.2286"N | 80°38'5.3832"W | 878.29 | 255.725 | 0.58 |
| 5098.00 | 92.00 | 14.250 | 252.480 | 4986.79 | 465.39 | -222.94 | -872.52 | 1743033.49 | 14436027.39 | 39°45'1.1665"N | 80°38'5.6570"W | 900.55 | 255.667 | 0.70 |
| 5189.00 | 91.00 | 13.480 | 252.320 | 5075.14 | 475.58 | -229.53 | -893.31 | 1743012.71 | 14436020.80 | 39°45'1.1021"N | 80°38'5.9234"W | 922.32 | 255.590 | 0.85 |
| 5279.00 | 90.00 | 12.850 | 256.480 | 5162.78 | 485.76 | -235.06 | -913.03 | 1742992.99 | 14436015.27 | 39°45'1.0483"N | 80°38'6.1763"W | 942.80 | 255.563 | 1.26 |

| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|-----------------------------|--|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | | Well | O E Burge MSH 201H |
| Field | Marshall | | API | 4705102389000 |
| Facility | O E Burge MSH Pad | | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | | |

| WELLPATH DATA (233 stations) | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|-------------------|-----------------|---------------|
| MD (ft) | Course Length (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) |
| 5370.00 | 91.00 | 12.560 | 254.640 | 5251.55 | 496.07 | -240.05 | -932.41 | 1742973.62 | 14436010.29 | 39°45'0.9998"N | 80°38'6.4246"W | 962.82 | 255.563 | 0.55 |
| 5458.00 | 88.00 | 12.560 | 253.770 | 5337.44 | 505.54 | -245.25 | -950.83 | 1742955.22 | 14436005.08 | 39°45'0.9491"N | 80°38'6.6607"W | 981.95 | 255.536 | 0.21 |
| 5550.00 | 92.00 | 12.760 | 252.610 | 5427.20 | 515.20 | -251.09 | -970.13 | 1742935.92 | 14435999.25 | 39°45'0.8922"N | 80°38'6.9081"W | 1002.09 | 255.489 | 0.35 |
| 5640.00 | 90.00 | 13.430 | 253.120 | 5514.86 | 524.88 | -257.09 | -989.61 | 1742916.44 | 14435993.25 | 39°45'0.8337"N | 80°38'7.1579"W | 1022.46 | 255.437 | 0.76 |
| 5729.00 | 89.00 | 13.700 | 251.820 | 5601.38 | 534.65 | -263.36 | -1009.52 | 1742896.55 | 14435986.96 | 39°45'0.7723"N | 80°38'7.4130"W | 1043.31 | 255.378 | 0.46 |
| 5817.00 | 88.00 | 13.710 | 253.500 | 5686.88 | 544.47 | -269.59 | -1029.41 | 1742876.66 | 14435980.75 | 39°45'0.7117"N | 80°38'7.6681"W | 1064.13 | 255.324 | 0.45 |
| 5907.00 | 90.00 | 13.580 | 252.380 | 5774.34 | 554.57 | -275.82 | -1049.71 | 1742856.37 | 14435974.53 | 39°45'0.6510"N | 80°38'7.9283"W | 1085.34 | 255.278 | 0.33 |
| 5999.00 | 92.00 | 13.780 | 255.430 | 5863.73 | 565.23 | -281.85 | -1070.61 | 1742835.48 | 14435968.50 | 39°45'0.5923"N | 80°38'8.1962"W | 1107.09 | 255.251 | 0.81 |
| 6089.00 | 90.00 | 13.540 | 253.930 | 5951.18 | 575.90 | -287.46 | -1091.11 | 1742814.99 | 14435962.89 | 39°45'0.5376"N | 80°38'8.4589"W | 1128.34 | 255.240 | 0.48 |
| 6178.00 | 89.00 | 13.370 | 255.420 | 6037.74 | 586.29 | -292.94 | -1111.08 | 1742795.02 | 14435957.42 | 39°45'0.4843"N | 80°38'8.7149"W | 1149.05 | 255.230 | 0.43 |
| 6267.00 | 89.00 | 12.570 | 254.970 | 6124.47 | 596.48 | -298.04 | -1130.39 | 1742775.72 | 14435952.32 | 39°45'0.4347"N | 80°38'8.9624"W | 1169.02 | 255.230 | 0.91 |
| 6335.00 | 68.00 | 12.000 | 252.340 | 6190.91 | 603.52 | -302.10 | -1144.27 | 1742761.84 | 14435948.26 | 39°45'0.3951"N | 80°38'9.1403"W | 1183.48 | 255.211 | 1.17 |
| 6449.00 | 114.00 | 12.160 | 251.090 | 6302.39 | 614.41 | -309.59 | -1166.92 | 1742739.20 | 14435940.77 | 39°45'0.3220"N | 80°38'9.4307"W | 1207.29 | 255.142 | 0.27 |
| 6539.00 | 90.00 | 12.650 | 253.580 | 6390.29 | 623.43 | -315.44 | -1185.35 | 1742720.79 | 14435934.92 | 39°45'0.2648"N | 80°38'9.6669"W | 1226.60 | 255.098 | 0.81 |
| 6627.00 | 88.00 | 12.900 | 257.690 | 6476.11 | 633.47 | -320.26 | -1204.19 | 1742701.95 | 14435930.10 | 39°45'0.2180"N | 80°38'9.9083"W | 1246.05 | 255.106 | 1.07 |
| 6716.00 | 89.00 | 18.480 | 274.050 | 6561.80 | 649.65 | -321.39 | -1227.99 | 1742678.16 | 14435928.98 | 39°45'0.2078"N | 80°38'10.2132"W | 1269.35 | 255.334 | 7.94 |
| 6807.00 | 91.00 | 23.420 | 284.400 | 6646.79 | 676.28 | -315.66 | -1259.93 | 1742646.24 | 14435934.50 | 39°45'0.2637"N | 80°38'10.6217"W | 1298.92 | 255.926 | 6.76 |
| 6895.00 | 88.00 | 29.340 | 290.780 | 6725.60 | 711.17 | -303.85 | -1297.06 | 1742609.11 | 14435946.50 | 39°45'0.3839"N | 80°38'11.0966"W | 1332.18 | 256.815 | 7.45 |
| 6983.00 | 88.00 | 35.170 | 289.110 | 6799.99 | 753.83 | -287.89 | -1341.21 | 1742564.99 | 14435962.46 | 39°45'0.5434"N | 80°38'11.6609"W | 1371.76 | 257.855 | 6.70 |
| 7072.00 | 89.00 | 40.780 | 298.000 | 6870.18 | 804.92 | -265.82 | -1391.17 | 1742515.05 | 14435984.52 | 39°45'0.7635"N | 80°38'12.2994"W | 1416.34 | 259.182 | 8.79 |
| 7160.00 | 88.00 | 46.800 | 309.480 | 6933.77 | 864.56 | -231.85 | -1441.42 | 1742464.81 | 14436018.48 | 39°45'1.1012"N | 80°38'12.9411"W | 1459.95 | 260.862 | 11.31 |
| 7251.00 | 91.00 | 53.880 | 311.430 | 6991.82 | 934.39 | -186.38 | -1494.65 | 1742411.60 | 14436063.93 | 39°45'1.5527"N | 80°38'13.6202"W | 1506.23 | 262.892 | 7.95 |
| 7341.00 | 90.00 | 61.560 | 311.030 | 7039.84 | 1010.31 | -136.27 | -1551.85 | 1742354.43 | 14436114.02 | 39°45'2.0502"N | 80°38'14.3499"W | 1557.82 | 264.982 | 8.56 |
| 7434.00 | 93.00 | 68.880 | 310.640 | 7078.77 | 1094.52 | -81.10 | -1615.70 | 1742290.60 | 14436169.17 | 39°45'2.5980"N | 80°38'15.1646"W | 1617.74 | 267.126 | 7.86 |
| 7526.00 | 92.00 | 76.200 | 310.900 | 7106.36 | 1182.03 | -23.83 | -1682.12 | 1742224.21 | 14436226.42 | 39°45'3.1867"N | 80°38'16.0119"W | 1682.29 | 269.188 | 7.96 |
| 7617.00 | 91.00 | 83.680 | 311.360 | 7122.24 | 1271.41 | 35.07 | -1749.56 | 1742156.80 | 14436285.30 | 39°45'3.7515"N | 80°38'16.8723"W | 1749.91 | 271.148 | 8.23 |
| 7707.00 | 90.00 | 89.820 | 311.020 | 7127.34 | 1361.06 | 94.22 | -1817.14 | 1742089.24 | 14436344.42 | 39°45'4.3387"N | 80°38'17.7346"W | 1819.58 | 272.968 | 6.83 |
| 7797.00 | 90.00 | 88.770 | 314.150 | 7128.45 | 1450.99 | 155.11 | -1883.39 | 1742023.01 | 14436405.29 | 39°45'4.9431"N | 80°38'18.5797"W | 1889.77 | 274.708 | 3.67 |
| 7888.00 | 91.00 | 88.480 | 313.960 | 7130.65 | 1541.96 | 218.36 | -1948.77 | 1741957.66 | 14436468.52 | 39°45'5.5708"N | 80°38'19.4135"W | 1960.97 | 276.393 | 0.40 |
| 7979.00 | 91.00 | 88.830 | 313.960 | 7132.80 | 1632.93 | 281.51 | -2014.26 | 1741892.20 | 14436531.64 | 39°45'6.1975"N | 80°38'20.2486"W | 2033.84 | 277.956 | 0.41 |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| WELLPATH DATA (233 stations) | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|
| MD [ft] | Course Length [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] |
| 8070.00 | 91.00 | 89.200 | 314.070 | 7134.37 | 1723.91 | 344.74 | -2079.69 | 1741826.79 | 14436594.84 | 39°45'6.8249"N | 80°38'21.0831"W | 2108.07 | 279.412 | 0.42 |
| 8159.00 | 89.00 | 88.890 | 314.200 | 7135.85 | 1812.90 | 406.70 | -2143.56 | 1741762.95 | 14436656.78 | 39°45'7.4399"N | 80°38'21.8977"W | 2181.80 | 280.743 | 0.38 |
| 8251.00 | 92.00 | 90.590 | 314.650 | 7136.27 | 1904.89 | 471.10 | -2209.26 | 1741697.27 | 14436721.15 | 39°45'8.0789"N | 80°38'22.7355"W | 2258.93 | 282.037 | 1.91 |
| 8342.00 | 91.00 | 88.950 | 313.840 | 7136.63 | 1995.89 | 534.59 | -2274.45 | 1741632.11 | 14436784.62 | 39°45'8.7089"N | 80°38'23.5669"W | 2336.43 | 283.227 | 2.01 |
| 8433.00 | 91.00 | 89.200 | 314.460 | 7138.10 | 2086.87 | 597.96 | -2339.73 | 1741566.85 | 14436847.97 | 39°45'9.3378"N | 80°38'24.3995"W | 2414.93 | 284.336 | 0.73 |
| 8525.00 | 92.00 | 88.950 | 314.560 | 7139.59 | 2178.86 | 662.45 | -2405.33 | 1741501.28 | 14436912.43 | 39°45'9.9777"N | 80°38'25.2361"W | 2494.89 | 285.398 | 0.29 |
| 8618.00 | 93.00 | 88.950 | 314.360 | 7141.29 | 2271.84 | 727.58 | -2471.70 | 1741434.94 | 14436977.53 | 39°45'10.6240"N | 80°38'26.0824"W | 2576.56 | 286.403 | 0.22 |
| 8710.00 | 92.00 | 89.170 | 313.360 | 7142.80 | 2363.82 | 791.31 | -2538.02 | 1741368.64 | 14437041.25 | 39°45'11.2565"N | 80°38'26.9284"W | 2658.52 | 287.317 | 1.11 |
| 8799.00 | 89.00 | 90.150 | 314.560 | 7143.33 | 2452.82 | 853.09 | -2602.08 | 1741304.60 | 14437103.00 | 39°45'11.8696"N | 80°38'27.7454"W | 2738.36 | 288.152 | 1.74 |
| 8890.00 | 91.00 | 89.050 | 314.920 | 7143.96 | 2543.81 | 917.14 | -2666.72 | 1741239.99 | 14437167.03 | 39°45'12.5052"N | 80°38'28.5697"W | 2820.02 | 288.979 | 1.27 |
| 8981.00 | 91.00 | 90.060 | 314.980 | 7144.67 | 2634.80 | 981.43 | -2731.12 | 1741175.62 | 14437231.29 | 39°45'13.1430"N | 80°38'29.3909"W | 2902.11 | 289.766 | 1.11 |
| 9073.00 | 92.00 | 89.420 | 315.320 | 7145.09 | 2726.80 | 1046.65 | -2796.00 | 1741110.76 | 14437296.49 | 39°45'13.7902"N | 80°38'30.2183"W | 2985.48 | 290.523 | 0.79 |
| 9165.00 | 92.00 | 90.030 | 315.690 | 7145.53 | 2818.78 | 1112.28 | -2860.48 | 1741046.31 | 14437362.08 | 39°45'14.4413"N | 80°38'31.0405"W | 3069.12 | 291.248 | 0.78 |
| 9257.00 | 92.00 | 89.380 | 315.040 | 7146.00 | 2910.77 | 1177.74 | -2925.11 | 1740981.70 | 14437427.52 | 39°45'15.0908"N | 80°38'31.8648"W | 3153.31 | 291.931 | 1.00 |
| 9349.00 | 92.00 | 89.050 | 313.530 | 7147.26 | 3002.76 | 1241.97 | -2990.97 | 1740915.87 | 14437491.73 | 39°45'15.7281"N | 80°38'32.7046"W | 3238.58 | 292.550 | 1.66 |
| 9441.00 | 92.00 | 89.600 | 314.190 | 7148.35 | 3094.75 | 1305.71 | -3057.30 | 1740849.57 | 14437555.44 | 39°45'16.3607"N | 80°38'33.5506"W | 3324.45 | 293.126 | 0.93 |
| 9532.00 | 91.00 | 89.720 | 314.980 | 7148.89 | 3185.74 | 1369.59 | -3122.11 | 1740784.78 | 14437619.30 | 39°45'16.9945"N | 80°38'34.3772"W | 3409.30 | 293.686 | 0.88 |
| 9625.00 | 93.00 | 89.200 | 314.610 | 7149.76 | 3278.74 | 1435.11 | -3188.10 | 1740718.81 | 14437684.79 | 39°45'17.6446"N | 80°38'35.2188"W | 3496.21 | 294.235 | 0.69 |
| 9718.00 | 93.00 | 89.420 | 314.190 | 7150.88 | 3371.73 | 1500.18 | -3254.54 | 1740652.40 | 14437749.83 | 39°45'18.2903"N | 80°38'36.0662"W | 3583.65 | 294.747 | 0.51 |
| 9810.00 | 92.00 | 89.570 | 314.880 | 7151.70 | 3463.73 | 1564.70 | -3320.12 | 1740586.85 | 14437814.33 | 39°45'18.9305"N | 80°38'36.9026"W | 3670.35 | 295.233 | 0.77 |
| 9901.00 | 91.00 | 89.250 | 313.450 | 7152.62 | 3554.72 | 1628.09 | -3385.39 | 1740521.60 | 14437877.70 | 39°45'19.5596"N | 80°38'37.7351"W | 3756.53 | 295.684 | 1.61 |
| 9992.00 | 91.00 | 89.970 | 314.010 | 7153.24 | 3645.70 | 1691.00 | -3451.14 | 1740455.87 | 14437940.58 | 39°45'20.1838"N | 80°38'38.5738"W | 3843.18 | 296.104 | 0.99 |
| 10085.00 | 93.00 | 88.280 | 314.380 | 7154.66 | 3738.69 | 1755.82 | -3517.81 | 1740389.23 | 14438005.37 | 39°45'20.8270"N | 80°38'39.4241"W | 3931.65 | 296.525 | 1.86 |
| 10176.00 | 91.00 | 89.290 | 313.620 | 7156.59 | 3829.66 | 1819.02 | -3583.26 | 1740323.81 | 14438068.55 | 39°45'21.4542"N | 80°38'40.2589"W | 4018.52 | 296.914 | 1.39 |
| 10269.00 | 93.00 | 89.570 | 314.400 | 7157.51 | 3922.65 | 1883.63 | -3650.14 | 1740256.95 | 14438133.13 | 39°45'22.0953"N | 80°38'41.1120"W | 4107.50 | 297.296 | 0.89 |
| 10359.00 | 90.00 | 89.380 | 314.250 | 7158.34 | 4012.65 | 1946.51 | -3714.52 | 1740192.60 | 14438195.99 | 39°45'22.7193"N | 80°38'41.9331"W | 4193.63 | 297.656 | 0.27 |
| 10451.00 | 92.00 | 89.630 | 315.230 | 7159.13 | 4104.64 | 2011.26 | -3779.87 | 1740127.28 | 14438260.72 | 39°45'23.3618"N | 80°38'42.7665"W | 4281.66 | 298.017 | 1.10 |
| 10543.00 | 92.00 | 89.050 | 313.880 | 7160.19 | 4196.63 | 2075.80 | -3845.42 | 1740061.75 | 14438325.24 | 39°45'24.0022"N | 80°38'43.6026"W | 4369.92 | 298.361 | 1.60 |
| 10634.00 | 91.00 | 89.140 | 314.140 | 7161.63 | 4287.62 | 2139.02 | -3910.86 | 1739996.34 | 14438388.43 | 39°45'24.6295"N | 80°38'44.4373"W | 4457.60 | 298.676 | 0.30 |
| 10724.00 | 90.00 | 90.770 | 315.250 | 7161.70 | 4377.61 | 2202.34 | -3974.81 | 1739932.41 | 14438451.72 | 39°45'25.2578"N | 80°38'45.2530"W | 4544.16 | 298.990 | 2.22 |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| WELLPATH DATA (233 stations) | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|
| MD [ft] | Course Length [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] |
| 10815.00 | 91.00 | 89.200 | 314.540 | 7161.72 | 4468.61 | 2266.59 | -4039.25 | 1739868.00 | 14438515.95 | 39°45'25.8952"N | 80°38'46.0748"W | 4631.73 | 299.299 | 1.91 |
| 10906.00 | 91.00 | 90.550 | 314.390 | 7161.92 | 4559.61 | 2330.33 | -4104.19 | 1739803.08 | 14438579.66 | 39°45'26.5277"N | 80°38'46.9031"W | 4719.62 | 299.588 | 1.49 |
| 10997.00 | 91.00 | 90.120 | 313.590 | 7161.39 | 4650.60 | 2393.53 | -4169.66 | 1739737.63 | 14438642.84 | 39°45'27.1548"N | 80°38'47.7382"W | 4807.81 | 299.857 | 1.00 |
| 11088.00 | 91.00 | 90.650 | 314.410 | 7160.78 | 4741.59 | 2456.74 | -4235.12 | 1739672.20 | 14438706.03 | 39°45'27.7821"N | 80°38'48.5732"W | 4896.10 | 300.118 | 1.07 |
| 11181.00 | 93.00 | 90.920 | 314.800 | 7159.50 | 4834.58 | 2522.04 | -4301.33 | 1739606.02 | 14438771.30 | 39°45'28.4300"N | 80°38'49.4176"W | 4986.19 | 300.385 | 0.51 |
| 11272.00 | 91.00 | 90.580 | 314.820 | 7158.31 | 4925.57 | 2586.17 | -4365.88 | 1739541.49 | 14438835.40 | 39°45'29.0663"N | 80°38'50.2410"W | 5074.37 | 300.641 | 0.37 |
| 11364.00 | 92.00 | 90.710 | 314.330 | 7157.28 | 5017.57 | 2650.74 | -4431.41 | 1739475.99 | 14438899.94 | 39°45'29.7069"N | 80°38'51.0768"W | 5163.70 | 300.887 | 0.55 |
| 11456.00 | 92.00 | 90.340 | 314.370 | 7156.43 | 5109.56 | 2715.05 | -4497.19 | 1739410.23 | 14438964.23 | 39°45'30.3450"N | 80°38'51.9159"W | 5253.21 | 301.120 | 0.40 |
| 11547.00 | 91.00 | 90.250 | 314.340 | 7155.96 | 5200.56 | 2778.66 | -4562.26 | 1739345.19 | 14439027.82 | 39°45'30.9762"N | 80°38'52.7458"W | 5341.83 | 301.344 | 0.10 |
| 11639.00 | 92.00 | 90.520 | 314.250 | 7155.35 | 5292.56 | 2842.91 | -4628.11 | 1739279.37 | 14439092.04 | 39°45'31.6137"N | 80°38'53.5858"W | 5431.53 | 301.561 | 0.31 |
| 11729.00 | 90.00 | 89.970 | 314.370 | 7154.96 | 5382.56 | 2905.78 | -4692.51 | 1739214.99 | 14439154.88 | 39°45'32.2375"N | 80°38'54.4072"W | 5519.35 | 301.767 | 0.63 |
| 11821.00 | 92.00 | 90.120 | 314.030 | 7154.89 | 5474.55 | 2969.92 | -4758.46 | 1739149.06 | 14439219.00 | 39°45'32.8739"N | 80°38'55.2485"W | 5609.22 | 301.970 | 0.40 |
| 11913.00 | 92.00 | 90.250 | 314.720 | 7154.59 | 5566.55 | 3034.26 | -4824.22 | 1739083.33 | 14439283.31 | 39°45'33.5123"N | 80°38'56.0873"W | 5699.11 | 302.168 | 0.76 |
| 12005.00 | 92.00 | 91.630 | 315.360 | 7153.08 | 5658.53 | 3099.34 | -4889.22 | 1739018.35 | 14439348.38 | 39°45'34.1581"N | 80°38'56.9164"W | 5798.82 | 302.371 | 1.65 |
| 12096.00 | 91.00 | 90.880 | 314.970 | 7151.25 | 5749.51 | 3163.86 | -4953.37 | 1738954.23 | 14439412.87 | 39°45'34.7982"N | 80°38'57.7345"W | 5877.57 | 302.568 | 1.13 |
| 12188.00 | 92.00 | 91.230 | 313.540 | 7149.71 | 5841.49 | 3228.05 | -5019.25 | 1738888.37 | 14439477.04 | 39°45'35.4351"N | 80°38'58.5749"W | 5967.68 | 302.746 | 1.67 |
| 12278.00 | 90.00 | 91.050 | 316.370 | 7147.92 | 5931.46 | 3291.62 | -5082.92 | 1738824.73 | 14439540.58 | 39°45'36.0658"N | 80°38'59.3870"W | 6055.65 | 302.926 | 3.15 |
| 12370.00 | 92.00 | 90.340 | 314.250 | 7146.81 | 6023.44 | 3357.02 | -5147.61 | 1738760.06 | 14439605.95 | 39°45'36.7146"N | 80°39'0.2121"W | 6145.53 | 303.110 | 2.43 |
| 12461.00 | 91.00 | 91.850 | 314.770 | 7145.07 | 6114.42 | 3420.80 | -5212.49 | 1738695.21 | 14439669.71 | 39°45'37.3474"N | 80°39'1.0397"W | 6234.74 | 303.276 | 1.75 |
| 12551.00 | 90.00 | 90.400 | 315.660 | 7143.30 | 6204.40 | 3484.66 | -5275.88 | 1738631.85 | 14439733.55 | 39°45'37.9810"N | 80°39'1.8482"W | 6322.80 | 303.444 | 1.89 |
| 12642.00 | 91.00 | 90.710 | 314.000 | 7142.42 | 6295.39 | 3548.81 | -5340.41 | 1738567.34 | 14439797.67 | 39°45'38.6175"N | 80°39'2.6713"W | 6412.03 | 303.605 | 1.86 |
| 12732.00 | 90.00 | 91.910 | 314.700 | 7140.36 | 6385.36 | 3611.71 | -5404.75 | 1738503.02 | 14439860.54 | 39°45'39.2415"N | 80°39'3.4920"W | 6500.45 | 303.753 | 1.54 |
| 12823.00 | 91.00 | 90.680 | 315.350 | 7138.31 | 6476.33 | 3676.07 | -5469.05 | 1738438.75 | 14439924.87 | 39°45'39.8800"N | 80°39'4.3122"W | 6589.69 | 303.907 | 1.53 |
| 12913.00 | 90.00 | 89.940 | 314.800 | 7137.82 | 6566.33 | 3739.79 | -5532.61 | 1738375.22 | 14439988.57 | 39°45'40.5122"N | 80°39'5.1228"W | 6678.00 | 304.057 | 1.02 |
| 13006.00 | 93.00 | 90.400 | 314.420 | 7137.54 | 6659.33 | 3805.10 | -5598.81 | 1738309.04 | 14440053.86 | 39°45'41.1602"N | 80°39'5.9674"W | 6769.45 | 304.201 | 0.64 |
| 13096.00 | 90.00 | 90.740 | 314.630 | 7136.65 | 6749.32 | 3868.21 | -5662.97 | 1738244.90 | 14440116.94 | 39°45'41.7863"N | 80°39'6.7858"W | 6858.01 | 304.336 | 0.44 |
| 13187.00 | 91.00 | 90.920 | 313.870 | 7135.33 | 6840.31 | 3931.70 | -5728.15 | 1738179.75 | 14440180.40 | 39°45'42.4163"N | 80°39'7.6172"W | 6947.66 | 304.465 | 0.86 |
| 13279.00 | 92.00 | 91.170 | 314.690 | 7133.65 | 6932.29 | 3995.92 | -5794.01 | 1738113.92 | 14440244.60 | 39°45'43.0535"N | 80°39'8.4573"W | 7038.31 | 304.593 | 0.93 |
| 13371.00 | 92.00 | 90.550 | 313.800 | 7132.27 | 7024.28 | 4060.10 | -5859.90 | 1738048.05 | 14440308.76 | 39°45'43.6903"N | 80°39'9.2980"W | 7129.02 | 304.717 | 1.18 |
| 13463.00 | 92.00 | 92.930 | 316.420 | 7129.48 | 7116.22 | 4125.24 | -5924.79 | 1737983.19 | 14440373.87 | 39°45'44.3365"N | 80°39'10.1257"W | 7219.47 | 304.848 | 3.85 |

| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|-----------------------------|--|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | | Well | O E Burge MSH 201H |
| Field | Marshall | | API | 47051023890000 |
| Facility | O E Burge MSH Pad | | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | | |

| WELLPATH DATA (233 stations) | | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|--|
| MD [ft] | Course Length [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] | |
| 13554.00 | 91.00 | 90.550 | 313.540 | 7126.71 | 7207.16 | 4189.52 | -5989.12 | 1737918.88 | 14440438.13 | 39°45'44.9743"N | 80°39'10.9462"W | 7309.01 | 304.974 | 4.10 | |
| 13645.00 | 91.00 | 90.830 | 314.340 | 7125.62 | 7298.15 | 4252.66 | -6054.64 | 1737853.39 | 14440501.24 | 39°45'45.6008"N | 80°39'11.7821"W | 7398.91 | 305.083 | 0.93 | |
| 13737.00 | 92.00 | 91.260 | 314.210 | 7123.94 | 7390.13 | 4316.87 | -6120.50 | 1737787.55 | 14440565.43 | 39°45'46.2379"N | 80°39'12.6223"W | 7489.72 | 305.196 | 0.49 | |
| 13829.00 | 92.00 | 90.680 | 313.480 | 7122.38 | 7482.11 | 4380.59 | -6186.84 | 1737721.24 | 14440629.13 | 39°45'46.8702"N | 80°39'13.4687"W | 7580.68 | 305.300 | 1.01 | |
| 13921.00 | 92.00 | 91.690 | 314.500 | 7120.48 | 7574.08 | 4444.48 | -6253.02 | 1737655.09 | 14440692.98 | 39°45'47.5040"N | 80°39'14.3129"W | 7671.61 | 305.404 | 1.56 | |
| 14013.00 | 92.00 | 90.830 | 313.600 | 7118.46 | 7666.05 | 4508.42 | -6319.13 | 1737589.01 | 14440756.91 | 39°45'48.1385"N | 80°39'15.1563"W | 7762.55 | 305.506 | 1.35 | |
| 14105.00 | 92.00 | 90.580 | 314.210 | 7117.32 | 7758.04 | 4572.22 | -6385.40 | 1737522.75 | 14440820.68 | 39°45'48.7715"N | 80°39'16.0019"W | 7853.57 | 305.604 | 0.72 | |
| 14198.00 | 93.00 | 94.370 | 314.870 | 7113.31 | 7850.94 | 4637.38 | -6451.62 | 1737456.57 | 14440885.81 | 39°45'49.4180"N | 80°39'16.8465"W | 7945.35 | 305.708 | 4.14 | |
| 14290.00 | 92.00 | 91.940 | 313.320 | 7108.25 | 7942.78 | 4701.29 | -6517.59 | 1737390.63 | 14440949.70 | 39°45'50.0521"N | 80°39'17.6881"W | 8036.23 | 305.804 | 3.13 | |
| 14382.00 | 92.00 | 91.750 | 314.470 | 7105.28 | 8034.73 | 4765.04 | -6583.85 | 1737324.39 | 14441013.42 | 39°45'50.6847"N | 80°39'18.5335"W | 8127.28 | 305.895 | 1.27 | |
| 14472.00 | 90.00 | 91.420 | 314.090 | 7102.79 | 8124.69 | 4827.85 | -6648.26 | 1737260.01 | 14441076.21 | 39°45'51.3079"N | 80°39'19.3552"W | 8216.29 | 305.987 | 0.56 | |
| 14563.00 | 91.00 | 91.080 | 315.260 | 7100.81 | 8215.67 | 4891.82 | -6712.95 | 1737195.34 | 14441140.15 | 39°45'51.9425"N | 80°39'20.1805"W | 8306.24 | 306.081 | 1.34 | |
| 14656.00 | 93.00 | 92.250 | 313.710 | 7098.11 | 8308.63 | 4956.95 | -6779.27 | 1737129.05 | 14441205.26 | 39°45'52.5887"N | 80°39'21.0265"W | 8398.21 | 306.174 | 2.09 | |
| 14749.00 | 93.00 | 91.940 | 314.270 | 7094.71 | 8401.56 | 5021.50 | -6846.13 | 1737062.21 | 14441269.78 | 39°45'53.2291"N | 80°39'21.8796"W | 8490.29 | 306.259 | 0.69 | |
| 14841.00 | 92.00 | 90.920 | 314.600 | 7092.41 | 8493.53 | 5085.89 | -6911.80 | 1736996.56 | 14441334.15 | 39°45'53.8680"N | 80°39'22.7174"W | 8581.33 | 306.347 | 1.17 | |
| 14932.00 | 91.00 | 91.020 | 314.670 | 7090.87 | 8584.52 | 5149.82 | -6976.55 | 1736931.84 | 14441398.05 | 39°45'54.5022"N | 80°39'23.5434"W | 8671.38 | 306.433 | 0.13 | |
| 15022.00 | 90.00 | 90.980 | 314.560 | 7089.30 | 8674.50 | 5213.02 | -7040.60 | 1736867.81 | 14441461.23 | 39°45'55.1292"N | 80°39'24.3806"W | 8760.46 | 306.517 | 0.13 | |
| 15113.00 | 91.00 | 90.890 | 314.410 | 7087.82 | 8765.49 | 5276.77 | -7105.52 | 1736802.92 | 14441524.96 | 39°45'55.7618"N | 80°39'25.1887"W | 8850.58 | 306.599 | 0.19 | |
| 15203.00 | 90.00 | 91.080 | 314.570 | 7086.27 | 8855.48 | 5339.84 | -7169.71 | 1736738.75 | 14441587.99 | 39°45'56.3874"N | 80°39'26.0077"W | 8939.72 | 306.678 | 0.28 | |
| 15295.00 | 92.00 | 90.950 | 314.100 | 7084.64 | 8947.46 | 5404.12 | -7235.51 | 1736672.98 | 14441652.25 | 39°45'57.0252"N | 80°39'26.8471"W | 9030.89 | 306.758 | 0.53 | |
| 15385.00 | 90.00 | 90.890 | 313.870 | 7083.19 | 9037.44 | 5466.61 | -7300.25 | 1736608.26 | 14441714.72 | 39°45'57.6452"N | 80°39'27.6732"W | 9120.17 | 306.827 | 0.26 | |
| 15476.00 | 91.00 | 90.770 | 314.330 | 7081.87 | 9128.43 | 5529.94 | -7365.60 | 1736542.94 | 14441778.02 | 39°45'58.2735"N | 80°39'28.5069"W | 9210.44 | 306.898 | 0.52 | |
| 15569.00 | 93.00 | 90.490 | 314.250 | 7080.85 | 9221.43 | 5594.87 | -7432.16 | 1736476.40 | 14441842.93 | 39°45'58.9177"N | 80°39'29.3562"W | 9302.67 | 306.972 | 0.31 | |
| 15660.00 | 91.00 | 90.800 | 315.620 | 7079.83 | 9312.41 | 5659.14 | -7496.58 | 1736412.01 | 14441907.17 | 39°45'59.5553"N | 80°39'30.1779"W | 9392.79 | 307.049 | 1.54 | |
| 15753.00 | 93.00 | 91.080 | 316.470 | 7078.30 | 9405.37 | 5726.08 | -7561.12 | 1736347.50 | 14441974.09 | 39°46'00.2193"N | 80°39'31.0012"W | 9484.65 | 307.137 | 0.96 | |
| 15846.00 | 93.00 | 91.020 | 315.620 | 7076.60 | 9498.32 | 5793.02 | -7625.66 | 1736282.98 | 14442041.00 | 39°46'00.8832"N | 80°39'31.8244"W | 9576.52 | 307.223 | 0.92 | |
| 15936.00 | 90.00 | 92.460 | 315.950 | 7073.87 | 9588.26 | 5857.49 | -7688.39 | 1736220.28 | 14442105.45 | 39°46'01.5228"N | 80°39'32.6246"W | 9665.48 | 307.302 | 1.64 | |
| 16027.00 | 91.00 | 90.770 | 315.620 | 7071.30 | 9679.20 | 5922.68 | -7751.82 | 1736156.87 | 14442170.62 | 39°46'02.1694"N | 80°39'33.4337"W | 9755.46 | 307.381 | 1.89 | |
| 16119.00 | 92.00 | 91.880 | 316.200 | 7069.17 | 9771.14 | 5988.74 | -7815.82 | 1736092.90 | 14442236.65 | 39°46'02.8247"N | 80°39'34.2500"W | 9846.42 | 307.461 | 1.36 | |
| 16210.00 | 91.00 | 90.770 | 315.810 | 7067.07 | 9862.09 | 6054.19 | -7879.01 | 1736029.74 | 14442302.07 | 39°46'03.4739"N | 80°39'35.0561"W | 9936.40 | 307.539 | 1.29 | |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| WELLPATH DATA (233 stations) | | | | | | | | | | | | | | |
|------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|
| MD [ft] | Course Length [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 | 91.00 | 90.680 | 314.800 | 7065.92 | 9953.07 | 6118.87 | -7943.00 | 1735965.76 | 14442366.73 | 39°46'4.1155"N | 80°39'35.8725"W | 10026.56 | 307.609 | 1.11 |
| 16392.00 | 91.00 | 90.550 | 316.030 | 7064.94 | 10044.05 | 6183.68 | -8006.88 | 1735901.91 | 14442431.51 | 39°46'4.7583"N | 80°39'36.6873"W | 10116.72 | 307.679 | 1.36 |
| 16482.00 | 90.00 | 90.860 | 314.720 | 7063.83 | 10134.04 | 6247.73 | -8070.09 | 1735838.72 | 14442495.53 | 39°46'5.3937"N | 80°39'37.4938"W | 10205.91 | 307.746 | 1.50 |
| 16574.00 | 92.00 | 91.660 | 313.910 | 7061.81 | 10226.01 | 6311.98 | -8135.90 | 1735772.94 | 14442559.76 | 39°46'6.0312"N | 80°39'38.3335"W | 10297.28 | 307.805 | 1.24 |
| 16664.00 | 90.00 | 92.400 | 314.900 | 7058.62 | 10315.95 | 6374.92 | -8200.16 | 1735708.71 | 14442622.67 | 39°46'6.6555"N | 80°39'39.1533"W | 10386.63 | 307.862 | 1.37 |
| 16756.00 | 92.00 | 91.020 | 315.740 | 7055.88 | 10407.90 | 6440.30 | -8264.82 | 1735644.07 | 14442688.03 | 39°46'7.3041"N | 80°39'39.9782"W | 10477.82 | 307.927 | 1.76 |
| 16848.00 | 92.00 | 91.170 | 314.900 | 7054.12 | 10499.88 | 6505.71 | -8329.49 | 1735579.42 | 14442753.41 | 39°46'7.9529"N | 80°39'40.8033"W | 10569.04 | 307.991 | 0.93 |
| 16938.00 | 90.00 | 91.940 | 314.100 | 7051.68 | 10589.84 | 6568.76 | -8393.66 | 1735515.28 | 14442816.44 | 39°46'8.5785"N | 80°39'41.6220"W | 10658.43 | 308.046 | 1.23 |
| 17029.00 | 91.00 | 91.720 | 314.300 | 7048.77 | 10680.79 | 6632.17 | -8458.87 | 1735450.10 | 14442879.83 | 39°46'9.2076"N | 80°39'42.4540"W | 10748.87 | 308.098 | 0.33 |
| 17119.00 | 90.00 | 92.090 | 314.990 | 7045.78 | 10770.74 | 6695.38 | -8522.86 | 1735386.13 | 14442943.01 | 39°46'9.8346"N | 80°39'43.2705"W | 10838.24 | 308.152 | 0.87 |
| 17210.00 | 91.00 | 91.380 | 314.510 | 7043.02 | 10861.70 | 6759.42 | -8587.46 | 1735321.56 | 14443007.02 | 39°46'10.4699"N | 80°39'44.0947"W | 10928.60 | 308.207 | 0.94 |
| 17300.00 | 90.00 | 91.660 | 314.800 | 7040.64 | 10951.67 | 6822.65 | -8651.46 | 1735257.58 | 14443070.23 | 39°46'11.0972"N | 80°39'44.9112"W | 11018.00 | 308.260 | 0.45 |
| 17391.00 | 91.00 | 91.540 | 314.600 | 7038.10 | 11042.63 | 6886.63 | -8716.12 | 1735192.95 | 14443134.19 | 39°46'11.7319"N | 80°39'45.7362"W | 11108.39 | 308.312 | 0.26 |
| 17481.00 | 90.00 | 90.860 | 314.150 | 7036.21 | 11132.61 | 6949.56 | -8780.43 | 1735128.66 | 14443197.09 | 39°46'12.3562"N | 80°39'46.5568"W | 11197.67 | 308.361 | 0.91 |
| 17573.00 | 92.00 | 90.980 | 313.940 | 7034.73 | 11224.59 | 7013.51 | -8848.55 | 1735062.57 | 14443261.02 | 39°46'12.9907"N | 80°39'47.4005"W | 11289.41 | 308.407 | 0.26 |
| 17663.00 | 90.00 | 91.420 | 314.680 | 7032.85 | 11314.57 | 7076.37 | -8910.94 | 1734998.20 | 14443323.85 | 39°46'13.6142"N | 80°39'48.2221"W | 11378.92 | 308.454 | 0.96 |
| 17753.00 | 90.00 | 91.010 | 314.230 | 7030.94 | 11404.55 | 7139.38 | -8975.17 | 1734934.00 | 14443386.84 | 39°46'14.2394"N | 80°39'49.0416"W | 11468.41 | 308.501 | 0.68 |
| 17844.00 | 91.00 | 91.200 | 314.120 | 7029.19 | 11495.53 | 7202.79 | -9040.42 | 1734868.77 | 14443450.22 | 39°46'14.8684"N | 80°39'49.8743"W | 11558.95 | 308.545 | 0.24 |
| 17935.00 | 91.00 | 91.230 | 314.360 | 7027.26 | 11586.51 | 7266.26 | -9105.60 | 1734803.62 | 14443513.67 | 39°46'15.4981"N | 80°39'50.7060"W | 11649.48 | 308.590 | 0.27 |
| 18026.00 | 91.00 | 91.420 | 314.730 | 7025.15 | 11677.49 | 7330.08 | -9170.44 | 1734738.81 | 14443577.46 | 39°46'16.1312"N | 80°39'51.5333"W | 11739.97 | 308.636 | 0.46 |
| 18116.00 | 90.00 | 91.050 | 313.770 | 7023.21 | 11767.46 | 7392.86 | -9234.89 | 1734674.38 | 14443640.22 | 39°46'16.7540"N | 80°39'52.3557"W | 11829.52 | 308.679 | 1.14 |
| 18208.00 | 92.00 | 91.290 | 314.460 | 7021.33 | 11859.44 | 7456.89 | -9300.93 | 1734608.37 | 14443704.22 | 39°46'17.3892"N | 80°39'53.1984"W | 11921.09 | 308.720 | 0.79 |
| 18298.00 | 90.00 | 90.950 | 314.580 | 7019.57 | 11949.42 | 7519.97 | -9365.10 | 1734544.22 | 14443767.28 | 39°46'18.0150"N | 80°39'54.0171"W | 12010.62 | 308.764 | 0.39 |
| 18390.00 | 92.00 | 91.010 | 314.080 | 7018.00 | 12041.41 | 7584.24 | -9430.91 | 1734478.44 | 14443831.52 | 39°46'18.6526"N | 80°39'54.8569"W | 12102.18 | 308.806 | 0.53 |
| 18481.00 | 91.00 | 91.480 | 314.410 | 7016.02 | 12132.39 | 7647.72 | -9496.08 | 1734413.29 | 14443894.98 | 39°46'19.2823"N | 80°39'55.6886"W | 12192.75 | 308.846 | 0.63 |
| 18573.00 | 92.00 | 91.050 | 314.080 | 7013.99 | 12224.36 | 7711.89 | -9561.97 | 1734347.43 | 14443959.13 | 39°46'19.9190"N | 80°39'56.5293"W | 12284.32 | 308.887 | 0.59 |
| 18664.00 | 91.00 | 90.830 | 314.140 | 7012.50 | 12315.35 | 7775.22 | -9627.30 | 1734282.12 | 14444022.43 | 39°46'20.5473"N | 80°39'57.3630"W | 12374.93 | 308.925 | 0.25 |
| 18753.00 | 89.00 | 92.180 | 314.070 | 7010.16 | 12404.31 | 7837.14 | -9691.18 | 1734218.26 | 14444084.33 | 39°46'21.1615"N | 80°39'58.1782"W | 12463.54 | 308.962 | 1.52 |
| 18843.00 | 90.00 | 92.310 | 314.650 | 7006.64 | 12494.24 | 7900.02 | -9755.48 | 1734153.99 | 14444147.18 | 39°46'21.7853"N | 80°39'58.9987"W | 12553.07 | 309.001 | 0.66 |
| 18933.00 | 90.00 | 92.150 | 314.770 | 7003.13 | 12584.17 | 7963.29 | -9819.39 | 1734090.10 | 14444210.42 | 39°46'22.4129"N | 80°39'59.8142"W | 12642.56 | 309.041 | 0.22 |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| WELLPATH DATA (233 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | | | | | |
|-------------------------------------------------------------------------|--------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------------------|-----------------|---------------|
| MD (ft) | Course Length (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) |
| 19020.00 | 87.00 | 91.940 | 314.160 | 7000.03 | 12671.12 | 8024.19 | -9881.44 | 1734028.08 | 14444271.30 | 39°46'23.0171"N | 80°40'0.6060"W | 12729.12 | 309.078 | 0.74 |
| 19111.00 | 91.00 | 91.720 | 313.670 | 6997.12 | 12762.06 | 8087.27 | -9946.96 | 1733962.58 | 14444334.36 | 39°46'23.6429"N | 80°40'1.4421"W | 12819.75 | 309.112 | 0.59 |
| 19200.00 | 89.00 | 91.480 | 314.320 | 6994.64 | 12851.03 | 8149.07 | -10010.96 | 1733898.61 | 14444396.13 | 39°46'24.2560"N | 80°40'2.2589"W | 12908.40 | 309.146 | 0.78 |
| 19291.00 | 91.00 | 91.750 | 314.750 | 6992.07 | 12941.99 | 8212.86 | -10075.81 | 1733833.79 | 14444459.90 | 39°46'24.8888"N | 80°40'3.0863"W | 12998.96 | 309.184 | 0.56 |
| 19383.00 | 92.00 | 91.720 | 314.490 | 6989.29 | 13033.95 | 8277.45 | -10141.26 | 1733768.36 | 14444524.47 | 39°46'25.5296"N | 80°40'3.9215"W | 13090.51 | 309.222 | 0.28 |
| 19473.00 | 90.00 | 91.450 | 314.280 | 6986.80 | 13123.91 | 8340.38 | -10205.55 | 1733704.09 | 14444587.37 | 39°46'26.1538"N | 80°40'4.7419"W | 13180.11 | 309.257 | 0.38 |
| 19565.00 | 92.00 | 91.910 | 314.560 | 6984.10 | 13215.87 | 8404.75 | -10271.23 | 1733638.44 | 14444651.71 | 39°46'26.7923"N | 80°40'5.5801"W | 13271.70 | 309.293 | 0.59 |
| 19656.00 | 91.00 | 91.880 | 314.350 | 6981.09 | 13306.82 | 8468.44 | -10336.15 | 1733573.54 | 14444715.38 | 39°46'27.4242"N | 80°40'6.4085"W | 13362.28 | 309.328 | 0.23 |
| 19747.00 | 91.00 | 91.050 | 314.620 | 6978.77 | 13397.79 | 8532.19 | -10401.06 | 1733508.67 | 14444779.10 | 39°46'28.0565"N | 80°40'7.2367"W | 13452.89 | 309.363 | 0.96 |
| 19839.00 | 92.00 | 91.110 | 314.350 | 6977.03 | 13489.77 | 8596.64 | -10466.68 | 1733443.07 | 14444843.53 | 39°46'28.6959"N | 80°40'8.0742"W | 13544.51 | 309.397 | 0.30 |
| 19929.00 | 90.00 | 90.460 | 314.050 | 6975.80 | 13579.76 | 8659.38 | -10531.19 | 1733378.58 | 14444906.25 | 39°46'29.3183"N | 80°40'8.8975"W | 13634.18 | 309.429 | 0.80 |
| 20021.00 | 92.00 | 90.620 | 314.490 | 6974.93 | 13671.76 | 8723.60 | -10597.07 | 1733312.73 | 14444970.44 | 39°46'29.9553"N | 80°40'9.7381"W | 13725.85 | 309.462 | 0.51 |
| 20111.00 | 90.00 | 90.550 | 314.450 | 6974.01 | 13761.75 | 8786.64 | -10661.29 | 1733248.53 | 14445033.46 | 39°46'30.5807"N | 80°40'10.5577"W | 13815.51 | 309.494 | 0.09 |
| 20202.00 | 91.00 | 90.520 | 314.710 | 6973.16 | 13852.75 | 8850.51 | -10726.11 | 1733183.75 | 14445097.30 | 39°46'31.2143"N | 80°40'11.3848"W | 13906.15 | 309.527 | 0.29 |
| 20293.00 | 91.00 | 90.800 | 314.760 | 6972.11 | 13943.74 | 8914.56 | -10790.74 | 1733119.13 | 14445161.32 | 39°46'31.8496"N | 80°40'12.2097"W | 13996.77 | 309.561 | 0.31 |
| 20385.00 | 92.00 | 91.420 | 314.380 | 6970.33 | 14035.73 | 8979.11 | -10856.27 | 1733053.63 | 14445225.85 | 39°46'32.4899"N | 80°40'13.0459"W | 14088.40 | 309.594 | 0.79 |
| 20475.00 | 90.00 | 91.540 | 314.040 | 6968.01 | 14125.69 | 9041.84 | -10920.76 | 1732989.17 | 14445288.56 | 39°46'33.1122"N | 80°40'13.8689"W | 14178.08 | 309.623 | 0.40 |
| 20566.00 | 91.00 | 91.600 | 314.410 | 6965.51 | 14216.66 | 9105.29 | -10985.95 | 1732924.00 | 14445351.98 | 39°46'33.7416"N | 80°40'14.7008"W | 14268.76 | 309.652 | 0.41 |
| 20657.00 | 91.00 | 91.290 | 313.960 | 6963.22 | 14307.63 | 9168.70 | -11051.18 | 1732858.79 | 14445415.36 | 39°46'34.3706"N | 80°40'15.5333"W | 14359.44 | 309.681 | 0.60 |
| 20748.00 | 91.00 | 91.750 | 314.290 | 6960.81 | 14398.59 | 9232.03 | -11116.48 | 1732793.52 | 14445478.67 | 39°46'34.9989"N | 80°40'16.3667"W | 14450.14 | 309.709 | 0.62 |
| 20840.00 | 92.00 | 91.750 | 313.960 | 6958.00 | 14490.55 | 9296.05 | -11182.49 | 1732727.54 | 14445542.67 | 39°46'35.6340"N | 80°40'17.2091"W | 14541.82 | 309.737 | 0.36 |
| 20898.00 | 58.00 | 91.630 | 314.360 | 6956.29 | 14548.52 | 9336.44 | -11224.08 | 1732685.96 | 14445583.04 | 39°46'36.0346"N | 80°40'17.7399"W | 14599.63 | 309.754 | 0.72 |
| 20923.00 | 25.00 | 91.630 | 314.360 | 6955.58 | 14573.51 | 9353.91 | -11241.95 | 1732688.10 | 14445600.51 | 39°46'36.2080"N | 80°40'17.9679"W | 14624.54 | 309.762 | 0.00 |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|-----------------------------|----------|------------------------|
| Operator | SWN PRODUCTION COMPANY, LLC | Well | O E Burge MSH 201H |
| Field | Marshall | API | 47051023890000 |
| Facility | O E Burge MSH Pad | Wellbore | O E Burge MSH 201H AWB |
| Slot | Slot 201H | | |

| HOLE & CASING SECTIONS | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| - Ref Wellbore: O E Burge MSH 201H AWB Ref Wellpath: O E Burge MSH 201H AWB_awp 100' - 20898' Proj: 20923' | | | | | | | | | |
| 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 | 2717.00 | 2691.00 | 26.00 | 2681.18 | 0.00 | 0.00 | -63.07 | -303.87 |
| 9.625in Casing | 26.00 | 6335.00 | 6309.00 | 26.00 | 6190.91 | 0.00 | 0.00 | -302.10 | -1144.27 |
| 5.5in Casing | 26.00 | 20773.00 | 20747.00 | 26.00 | 6960.04 | 0.00 | 0.00 | 9249.46 | -11134.38 |

| TARGETS | | | | | | | | | |
|------------------------------|----------|------------|-----------|-------------------|--------------------|-----------------|-----------------|-------|--|
| Name | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape | |
| O E Burge MSH 201H BHL Rev 3 | 6944.20 | 9359.41 | -11235.98 | 1732674.07 | 14445606.01 | 39°46'36.2621"N | 80°40'17.8912"W | point | |
| O E Burge MSH 201H LP Rev 4 | 7125.00 | 70.67 | -1798.43 | 1742107.95 | 14436320.88 | 39°45'4.1052"N | 80°38'17.4962"W | point | |

| WELLPATH COMPOSITION - Ref Wellbore: O E Burge MSH 201H AWB Ref Wellpath: O E Burge MSH 201H AWB_awp 100' - 20898' Proj: 20923' | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------|---------------------------|------------------------|-------------|--|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore | Survey Date | |
| 26.00 | 300.00 | OWSG MWD rev2 + HRGM | 1 Tally MWD 100' - 300' | O E Burge MSH 201H AWB | 10/18/2021 | |
| 300.00 | 2717.00 | OWSG MWD rev2 + HRGM | 2 Tally MWD 400' - 2717' | O E Burge MSH 201H AWB | 10/18/2021 | |
| 2717.00 | 6335.00 | OWSG MWD rev2 + HRGM | 3 Tally MWD 2799' - 6335' | O E Burge MSH 201H AWB | 10/18/2021 | |
| 6335.00 | 20923.00 | BH AutoTrak Curve/eXpress (2019) (HRGM, Short spacing) | 4 BH MWD 6449' - 20898' | O E Burge MSH 201H AWB | 10/18/2021 | |



Well Name:

O E BURGE MSH 201H

47051023890000

| 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 | 228.00 | 228.00 | |
| Top of Salt Water | 1188.00 | 1188.00 | NA | NA | |
| Pittsburgh Coal | 1091.00 | 1091.00 | 1097.00 | 1097.00 | |
| Maxton (ss) | 1981.00 | 1967.00 | 2265.00 | 2242.00 | |
| Big Injun (ss) | 2265.00 | 2242.00 | 2874.00 | 2835.00 | |
| Berea (siltstone) | 2874.00 | 2835.00 | 6563.00 | 6414.00 | |
| Rhinestreet (shale) | 6563.00 | 6414.00 | 6924.00 | 6750.00 | |
| Cashaqua (shale) | 6924.00 | 6750.00 | 7067.00 | 6866.00 | |
| Middlesex (shale) | 7067.00 | 6866.00 | 7193.00 | 6954.00 | |
| Burket (shale) | 7193.00 | 6954.00 | 7230.00 | 6978.00 | |
| Tully (ls) | 7230.00 | 6978.00 | 7265.00 | 6999.00 | |
| Mahantango (shale) | 7265.00 | 6999.00 | 7502.00 | 7099.00 | |
| Marcellus (shale) | 7502.00 | 7099.00 | NA | NA | GAS |

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