

CORPORATE RESPONSIBILITY REPORT APPENDIX 2017-18



OUR MAJOR OPERATING COMPANIES, SUBSIDIARIES AND OPERATING UNITS

Exploration and Production (E&P) Operations and Services

- SWN Production (Arkansas), LLC, also known as SEECO, conducts exploration, drilling and production, exclusively in Arkansas
- SWN Production Company, LLC, also known as SEPCO, conducts exploration, drilling and production in Pennsylvania, Arkansas, Louisiana and elsewhere
- SWN E&P Services, LLC, provides oilfield products and services
- SWN Drilling Company, LLC, operates drilling rigs

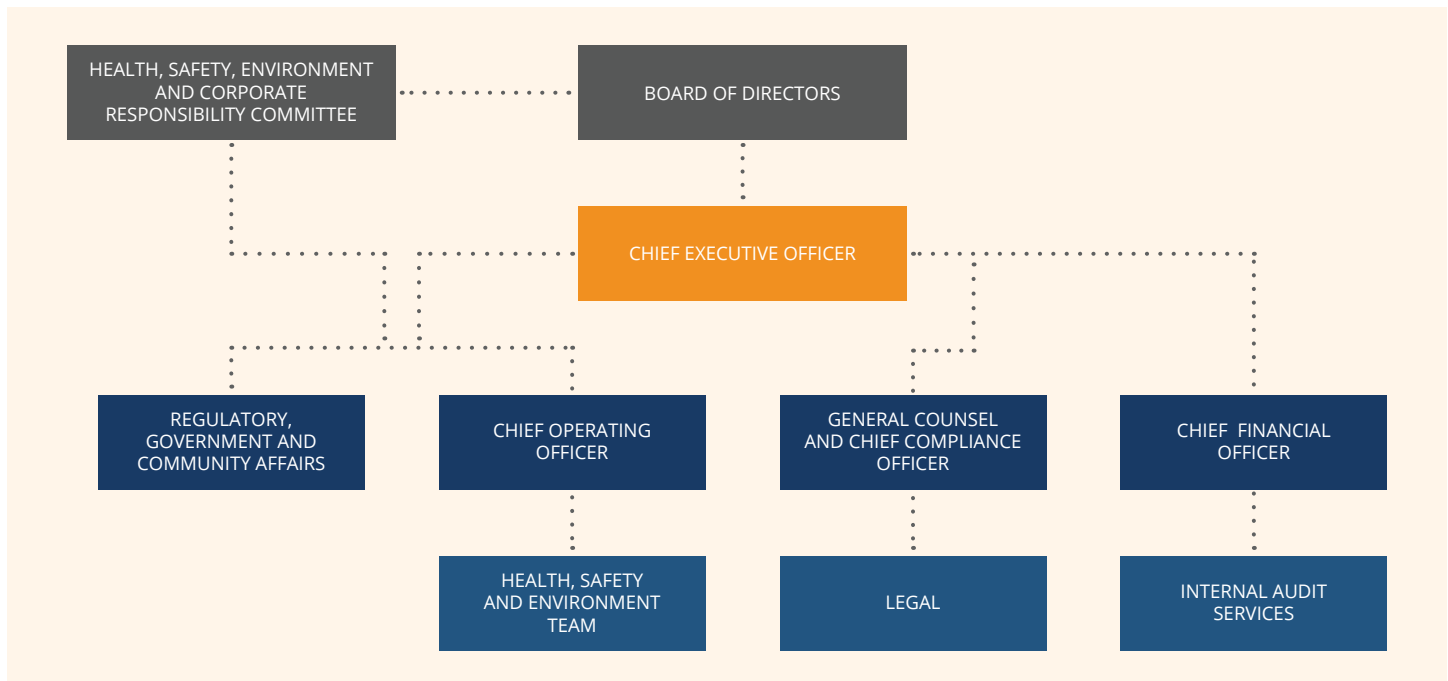
Midstream Services

SWN Midstream Services Company, LLC, oversees the gathering, marketing and transport of natural gas, through the following subsidiaries:

- DeSoto Gathering Company, LLC, engages in natural gas gathering activities in Arkansas for SWN and other natural gas producers
- Angelina Gathering Company, LLC, engages in natural gas gathering activities in Arkansas, Pennsylvania and Louisiana, primarily for SWN but also for other producers
- SWN Energy Services Company, LLC, markets and transports natural gas, crude oil and natural gas liquids, primarily for SWN but also for other producers

CORPORATE RESPONSIBILITY OVERSIGHT

The following graphic illustrates corporate responsibility oversight at SWN, including how authority is delegated from the Board to senior executives. Note that the Health, Safety, Environment and Corporate Responsibility Committee has three independent members.



HEALTH, SAFETY AND ENVIRONMENT OVERSIGHT

Within SWN's Health, Safety and Environment (HSE) department are the HSE Training team, Corporate HSE Compliance team and Corporate HSE Management team, as well as HSE teams that support each of our operating divisions. HSE operations staff members are embedded in all key business units and provide guidance and support on day-to-day HSE activities and programs. Our corporate HSE steering committee – which includes management representation from all business units and relevant corporate functions – guides policy and procedures for compliance and continuous improvement. In addition, each operating division or business unit has its own HSE committee, which reports to the steering committee, implements programs and monitors HSE performance and activities within its division. Business unit HSE committees include local management, HSE professionals and field operators. All of our HSE requirements apply to our employees and are minimum requirements for our third-party contractors.

GLOBAL REPORTING INITIATIVE INDEX

Southwestern Energy's 2017-18 corporate responsibility report was developed in accordance with the Global Reporting Initiative (GRI) Sustainability Reporting Standards at the Core level. We also used non-GRI indicators – specifically, those from the [IPIECA oil and gas industry guidance](#) on voluntary sustainability reporting, from [Disclosing the Facts \(DTE\)](#), which was developed by the Investor Environmental Health Network, As You Sow and Boston Common Asset Management, and from the [Sustainability Accounting Standards Board \(SASB\) Oil and Gas Exploration and Production Sustainability Accounting Standard](#) – when they were more relevant to the aspect reported than the GRI indicator or when they added additional transparency relevant for our industry. **Fully reported indicators are noted in dark blue** and **partially reported indicators are in light blue**. The financial data drawn from our Form 10-K have been externally assured; while other data haven't been externally assured, they have been subject to internal quality assurance procedures.

| GENERAL DISCLOSURES | |
|-------------------------------|--|
| INDICATOR | PAGE/RESPONSE/OMISSION |
| Organizational Profile | |
| 102-1 | Who We Are |
| 102-2 | Operations Overview See also the note for Indigenous Rights 103-2. |
| 102-3 | Spring, Texas |
| 102-4 | Areas of Operation 2017 10-K, pp. 5-13 |
| 102-5 | Southwestern Energy is a publicly held company. Our common stock is traded on the New York Stock Exchange under the symbol "SWN." |
| 102-6 | Operations Overview |
| 102-7 | Areas of Operation 2017 10-K, pp. 5-13, 24, 46-47 |
| SASB EM-EP-000.A | Areas of Operation 2017 10-K, pp. 10-13, 39-40 |
| SASB EM-EP-000.C | 2017 10-K, pp. 10-13, 39-40 |
| 102-8 | Workforce/Diversity Data/Workforce See the Workforce section for an overview of our approach to working with contractors. SWN does not employ a significant number of seasonal workers. |
| 102-9 | As SWN is a vertically integrated company supplying a basic commodity product, we do not have a long supply chain. We do purchase equipment (e.g., steel casing pipe, valves, vehicles) from a variety of manufacturers, and we use contractors for some aspects of our work. We utilize approximately 1,400 outside suppliers. Of these, 66% are contractors/service suppliers, 20% supply materials, 7% are consultants and 15% provide transportation. An estimated 99% of our suppliers are U.S.-based and 1% are based elsewhere. The estimated annual value of payments made to suppliers in 2017 was approximately \$855 million. |
| 102-10 | 2017 10-K, p. 10-13 |
| 102-11 | Approach/Strategy and Governance We do not apply this principle formally across all of our risk management decisions, but it does inform our thinking. |

| GENERAL DISCLOSURES | |
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| INDICATOR | PAGE/RESPONSE/OMISSION |
| 102-12 | Environment/Air Appalachian Shale Recommended Practices Group |
| 102-13 | Main national and international organizations SWN is a member of or supports: <ul style="list-style-type: none"> • American Exploration & Production Council • International Gas Union • American Petroleum Institute • Gas Processors Association • International Association of Directional Drilling • International Facility Management Association • Leadership in Energy and Environmental Design • National Petroleum Council • Society of Petroleum Engineers • The Nature Conservancy |
| Strategy | |
| 102-14 | Approach/Message from the CEO |
| 102-15 | Approach/Message from the CEO Approach/Strategy and Governance Approach/Key Issues |
| Ethics and Integrity | |
| 102-16 | Responsibility home page Approach/Message from the CEO Approach/Strategy and Governance Business Conduct Guidelines We have a code of ethics that applies specifically to our CEO, Chief Financial Officer and Chief Accounting Officer. Also, our approach to corporate responsibility includes responsible development of America's abundant supply of natural gas as an essential part of achieving a secure, low-carbon energy future for our country. For Southwestern, the proper development of this resource means balancing the economic, environmental and social impacts of our activities. |
| 102-17 | Business Conduct Guidelines Also, we have developed a detailed, confidential complaint procedure to facilitate the reporting of concerns or complaints by our employees and other interested parties regarding the company's accounting practices. |
| SASB EM-EP-510a.2 | Anti-Corruption Compliance Policy |

| GENERAL DISCLOSURES | |
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| INDICATOR | PAGE/RESPONSE/OMISSION |
| Governance | |
| 102-18 | Approach/Strategy and Governance This 2017-18 Corporate Responsibility Report Appendix (hereinafter "Appendix"), p. 1 2018 Proxy Statement, p. 24 |
| 102-19 | Approach/Strategy and Governance Appendix, p. 1 |
| 102-20 | Approach/Strategy and Governance |
| 102-21 | Approach/Strategy and Governance |
| 102-22 | 2018 Proxy Statement, pp. 14-24 Board of Directors Also note, as of year-end 2017, eight of ten of our Board members have had long careers with companies in oil and gas exploration and production, where they encountered and addressed the wide range of environmental, health, safety and social issues applicable to that industry. |
| 102-23 | 2018 Proxy Statement, p. 16 The Chairman of the Board is not an executive officer. |
| 102-24 | 2018 Proxy Statement, pp. 14, 25-26 Corporate Governance Guidelines, pp. 5-8 |
| 102-25 | 2018 Proxy Statement, p. 26-27 Our Board members are subject to our business conduct guidelines, which cover conflicts of interest and also limit membership on other boards. Board members are also subject to the independence requirements of the New York Stock Exchange, including the strengthened requirements relating to Audit, Compensation, Governance, and Nominating committees. |
| 102-26 | Approach/Strategy and Governance 2018 Proxy Statement, p. 21 Corporate Governance Guidelines, pp. 1-2 |
| 102-29 | 2018 Proxy Statement, p. 23 |
| 102-30 | 2017 Proxy Statement, p. 23 To manage risks related to economic, social, environmental and other topics, we have an enterprise risk management committee made up of senior managers from throughout the company. The committee regularly assesses and discusses the risks facing the company and presents its findings to the Audit Committee at least once a year. Based on the committee's analysis and recommendations, the Board sets the direction of the company to manage these risks. |
| 102-31 | 2018 Proxy Statement, p. 23 See note for 102-30 |
| 102-32 | Approach/Strategy and Governance |

| GENERAL DISCLOSURES | |
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| INDICATOR | PAGE/RESPONSE/OMISSION |
| 102-33 | Approach/Strategy and Governance 2018 Proxy Statement, p. 24 Contact the Board Also, as part of our internal control procedures, our Audit Services department conducts regular internal audits. These audits address a range of compliance issues, including compliance with our business conduct guidelines and code of ethics. Concerns raised by these audits are forwarded to our Chief Compliance Officer and the Audit Committee for disposition. |
| 102-35 | 2018 Proxy Statement, pp. 29-50 |
| 102-36 | 2018 Proxy Statement, pp. 29-50 |
| Stakeholder Engagement | |
| 102-40 | Approach/Stakeholders |
| 102-41 | None of our employees are covered by collective bargaining agreements. |
| 102-42 | Approach/Stakeholders Communities/Engagement |
| 102-43 | Approach/Stakeholders 2018 Proxy Statement, pp. 24-26, 36-37 |
| 102-44 | Approach/Key Issues Environment/Water Environment/Air Communities/Addressing Concerns 2018 Proxy Statement, p. 37 |
| Reporting Practice | |
| 102-45 | Appendix, p. 1 There are no entities in the consolidated financial statement that are not covered in this report. |
| 102-46 | Approach/Key Issues |
| 102-47 | Approach/Key Issues Appendix, p. 11 |
| 102-48 | All material restatements of CR performance are provided in notes to the data in the Data section . |
| 102-49 | There have been no significant changes in the report scope or aspect boundaries since our last report. |
| 102-50 | Responsibility home page |
| 102-51 | 2016 |
| 102-52 | Annually |
| 102-53 | Southwestern Energy 10000 Energy Drive Spring, TX 77389 832.796.1000 community@swn.com |
| 102-54 | This report has been prepared in accordance with the GRI Standards: Core option |
| 102-55 | This index |
| 102-56 | Appendix, p. 2 |

| TOPIC-SPECIFIC DISCLOSURES | |
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| INDICATOR | PAGE/RESPONSE/OMISSION |
| GRI 201: Economic Performance (2016) | |
| 103-1 | Approach/Key Issues Appendix, p. 11 |
| 103-2 | Approach/Strategy and Governance Communities/Addressing Concerns 2017 10-K, pp. 48-60 |
| 103-3 ¹ | Approach/Strategy and Governance |
| 201-1 | Data 2017 10-K, pp. 48-60 |
| 201-2 | Approach/Strategy and Governance Approach/Key Issues Environment/Air Environment/Climate Change and Scenario Analysis 2017 10-K, pp. 21, 22, 33 See mission statement in note for 102-16. |
| 201-3 | 2017 10-K, pp. 98-102 |
| IPIECA SE6 | Communities/Economic Impacts |
| GRI 203: Indirect Economic Impacts (2016) | |
| 103-1 | Approach/Key Issues Appendix, p. 11 |
| 103-2 | Approach/Strategy and Governance Communities/Economic Impacts Communities/Giving and Volunteering Communities/Addressing Concerns Appendix, p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance |
| 203-1 | Communities/Economic Impacts Communities/Giving and Volunteering |
| 203-2 | Communities/Economic Impacts |
| GRI 204: Procurement Practices (2016) | |
| 103-2 | Approach/Strategy and Governance Communities/Economic Impacts Communities/Addressing Concerns Appendix, p. 1 SWN makes every effort to work with local suppliers at significant locations of operations. However, we do not record a percentage at this time. |
| 103-3 ¹ | Approach/Strategy and Governance |
| 204-1 | See note for Procurement Practices 103-2. |
| OG1 | Data 2017 10-K, pp. 5-9 |
| GRI 205: Anti-Corruption (2016) | |
| 103-2 | Approach/Strategy and Governance Business Conduct Guidelines |
| 103-3 ¹ | Approach/Strategy and Governance Business Conduct Guidelines |

| TOPIC-SPECIFIC DISCLOSURES | |
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| INDICATOR | PAGE/RESPONSE/OMISSION |
| GRI 301: Materials (2016) | |
| 103-2 | Approach/Strategy and Governance Environment/Water/Protection Communities/Addressing Concerns Appendix, p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance |
| 301-1 | Environment/Water/Protection The part of this indicator that is relevant to SWN relates to the use of chemicals in our hydraulic fracturing fluids. SWN discloses that information to the FracFocus database . |
| DTF-21 Fracturing fluid toxicity reduction | Environment/Water/Protection SWN has implemented an internally developed program, called Right Products , that provides standards that chemical suppliers must meet prior to a product's use in our operations. The Right Products program is designed to drive the assessment of all chemical products SWN uses in hydraulic fracturing through an effective decision-making process aimed at minimizing the toxicity of fracture fluids. Since inception in 2014, our Right Products program has processed 292 products across four corporate divisions and 20 service providers. Of the 292 products evaluated, 187 have been approved after the hazard assessment, 50 have been approved after further evaluation and risk assessment, and 55 have been denied for use in SWN operations. The Right Products program demonstrates our commitment to do the right thing in order to responsibly develop our resources. The program and work flow are described in more detail in a paper – Choosing the “Right Products” SPE-189891-MS – that we presented at a conference of the Society for Petroleum Engineers. |
| DTF-22 Use of dry hydraulic fracturing chemicals | Through our Right Products program we assess possible hazardous characteristics of chemicals – dry and liquid – that may be identified for use in our operations prior to using them in hydraulic fracturing. Our selection of chemical products, whether liquid or dry media, is based on this hazard assessment and our goal to minimize the toxicity of the products approved for use. |
| DTF-23 Use of BTEX | Environment/Water/Protection |

¹ We review management of economic, social and environmental issues as part of our regular business performance review processes and make changes as needed based on these evaluations.

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
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| DTF-24 Confidential business information (CBI) re: supplier fracturing fluid | Environment/Water/Protection |
| DTF-25 Measures to reduce CBI claims for fracturing fluid | Environment/Water/Protection Collaborating with our chemical suppliers is key to the success of SWN's Right Products program . The program quantifies the risk of both public and proprietary chemical formulations by using an independent, third-party Ph.D. toxicologist to conduct the assessments. The integrity of confidential business information (CBI) is therefore maintained and assured by confidentiality agreements between the consulting toxicologist and the chemical suppliers. Implementing this system of collaboration, disclosure and compliance enables SWN to effectively communicate our chemical product expectations and assessment methodology to our service providers. This approach also ensures we can hold our service providers accountable to only use the products and product formulations that have been assessed and deemed acceptable by SWN. |

GRI 302: Energy (2016)

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| 103-2 | Environment/Air Communities/Addressing Concerns Appendix, p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance Environment/Air |
| 302-4 | The Environment/Air page of the report reflects our focus as a company on reducing greenhouse gas (GHG) emissions throughout our operations. Many of these efforts have also had the positive effect of reducing energy use – for example, employing a fleet of fuel-efficient, lean-burn compressor engines and utilizing dual-fuel drilling rigs. We have also reduced energy use in our administrative operations by moving to a LEED-certified headquarters building in Spring, Texas, and by operating out of a LEED-certified building in Conway, Arkansas. |

GRI 303: Water (2016)

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| 103-1 | Approach/Key Issues Appendix, p. 11 |
| 103-2 | Approach/Strategy and Governance Environment/Water Communities/Addressing Concerns Appendix, p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance Environment/Water Health and Safety/HSE Management |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
|-------------------|--|
| 303-1 | Environment/Water/Reduction Data/Environment |
| 303-2 | No water source is significantly affected by SWN's water withdrawals. We follow state-imposed guidelines for stopping withdrawal from surface water sources during low-flow periods to minimize impacts. We also obtain permits and follow regulatory requirements for water sources to ensure we are considering local needs and impacts. |
| 303-3 | Environment/Water/Reduction Data/Environment |
| SASB EM-EP-140a.1 | Environment/Water Data/Environment Appendix, pp. 13-16 None of SWN's primary operating areas are located in areas of high or extremely high baseline water stress, as defined by the World Resources Institute's Aqueduct water risk mapping tool . |
| SASB M-EP-140a.2 | Environment/Water/Reduction Data/Environment Appendix, pp. 13-15 There are no hydrocarbons in the water SWN discharges. |
| SASB M-EP-140a.3 | Environment/Water/Protection |
| SASB EM-EP-140a.4 | Environment/Water/Protection Appendix, p. 12 SWN performs baseline (pre-drill) water quality testing before beginning drilling operations in Pennsylvania, West Virginia, Colorado and the Brown Dense play. Pre-drill water quality sampling is conducted in Arkansas if requested by the landowner. In West Virginia, Pennsylvania, and Arkansas our pre-drill water sampling includes a one-time grab sample, which we test for a variety of different constituents including but not limited to organics, dissolved gases, total dissolved solids (TDS), total petroleum hydrocarbons (TPH), pH, metals, microbiology, organics GC/FID - Glycols, and volatile organic compounds. In West Virginia and Pennsylvania we test all water sources within 3000 ft of the drilling location, which exceeds the regulatory requirement to test sources within 1500 ft of the drilling location. We perform post-drill testing in all areas in response to water well complaints, if requested by landowners, or in cases where it is written into a lease agreement. |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
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| DTF-2 Well integrity failures releasing to environment | Environment/Water/Protection Environment/Land/Preventing Spills Appendix, p. 12 In 2017 and 2018, SWN has drilled and completed over 250 wells. Only one well had a wellbore integrity issue and that did not have a proven release to the environment. |
| DTF-4 Avoiding impacts to nearby wells | Environment/Water/Protection |
| DTF-6 Pre-drilling water quality testing | See note for SASB EM-EP-140a.4 above. |
| DTF-7 Post-drilling water quality testing | See note for SASB EM-EP-140a.4 above. |
| DTF-8 Operations in water scarce areas | See note for SASB EM-EP-140a.1 above. |
| DTF-9 Aggregate quantity of water used for operations | Appendix, pp. 13-16 |
| DTF-10 Use of fresh-water vs. non-freshwater | Appendix, p. 13 |
| DTF-11 Water sourced by play | Environment/Water Reduction Appendix, pp. 13-16 |
| DTF-12 Produced and/or flowback water recycling | Appendix, pp. 14-16 We recycle produced water in each of our operating areas to the extent it is technically practical to do so. |
| DTF 13 Reducing use of freshwater | Environment/Water |
| DTF-14 Volume of wastewater | Environment/Water/Reduction Appendix, p. 14-16 |

GRI 304: Biodiversity (2016)

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| 103-2 | Approach/Strategy and Governance Environment/Land/Protecting Biodiversity Communities/Addressing Concerns Appendix, p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance |
| 304-2 | Environment/Water |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
|-------------------|---|
| 304-3 | Environment/Water Environment/Land |
| 304-4 | Environment/Land |
| SASB EM-EP-160a.1 | Environment/Land |

GRI 305: Emissions (2016)

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| 103-1 | Approach/Key Issues Environment/Air Appendix, p. 11 |
| 103-2 | Environment/Air Communities/Addressing Concerns Health and Safety/HSE Management Appendix, p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance Health and Safety/HSE Management |
| 305-1 | Environment/Air Data/Environment |
| SASB EM-EP-110a.1 | Environment/Air Data/Environment |
| 305-4 | Environment/Air Data/Environment |
| 305-5 | Environment/Air Data/Environment |
| SASB EM-EP-110a.3 | Environment/Air Data/Environment |

GRI 306: Effluents and Waste (2016)

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| 103-1 | Approach/Key Issues Environment/Water Environment/Land Appendix, p. 11 |
| 103-2 | Environment/Water Environment/Land Communities/Addressing Concerns Health and Safety/HSE Management Appendix p. 1 |
| 103-3 ¹ | Approach/Strategy and Governance Environment/Water Health and Safety/HSE Management |
| 306-1 | Environment/Water |
| 306-3 | Data/Environment |
| OG5 | Environment/Water Appendix, pp. 13-16 |
| SASB EM-EP-540a.1 | Data/Environment |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
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| DTF-1 Maintaining well integrity | <u>Environment/Water/Protection</u> Regulatory requirements vary in the multiple basins in which we operate. Regardless of local requirements, SWN follows industry best management practices for wellbore integrity throughout the full life of the well. As a result, we meet regulatory requirements at a minimum and go beyond those requirements in some areas. During the initial drilling and completion of our wells, we use cement bond logs whenever required by state regulations. In addition, we use cement bond logging tools to evaluate wellbore construction integrity whenever shortcomings in the cementing process of casings is considered possible. When using cement bond logs, we rerun the testing/logging process with pressure on the casing to test for good bonding. In addition, SWN places pressure gauges on all wellbore annuli for the life of the well and monitors these gauges remotely and through daily human interface to ensure wellbore integrity at all times. This allows any wellbore integrity issues to be detected early in the life of an issue. |
| DTF-15 Wastewater storage | <u>Environment/Water/Reduction</u> SWN uses a range of options to store produced water, including frac tanks, aboveground storage tanks, and impoundments. We consider multiple factors to determine the appropriate storage method – most importantly, the safety for personnel and the environment. Other key considerations include regulations and permitting, topography, soil and subgrade suitability, surface footprint, the quality and quantity of the produced water to be stored, secondary containment, monitoring and/or leak detection, operational support services (i.e., trucking, pipeline, etc.), proximity to disposal, economics (capital and operating expenses) and closure requirements. We also consider if the storage is to be temporary or a fixed, centralized facility. |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
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| DTF-16 Wastewater storage protection measures | <u>Environment/Water/Reduction</u> <u>Environment/Land/Preventing Spills</u> In Arkansas we store produced water in permitted, double-lined impoundments equipped with leak-detection monitoring zones between and under the two synthetic liners. These spill and leak prevention methods exceed Arkansas' regulatory requirements. In West Virginia, we store produced water in above-ground tanks with lined containment berms below the tanks for spill containment. In Pennsylvania, we use both lined impoundments and above ground tanks with the same leak and spill prevention systems used in Arkansas and West Virginia. |
| DTF-17 Drilling residuals | <u>Environment/Land/Solid Waste</u> |
| DTF-18 Naturally occurring radioactive materials | <u>Environment/Land/Solid Waste</u> <u>Health and Safety/Industrial Hygiene</u> |
| DTF-19 Managing inactive wells | Inactive wells are managed to comply with local regulatory requirements, at a minimum. This includes periodic surveillance and integrity management testing. Wells that no longer have a future use are plugged and abandoned per local regulatory guidelines. |
| DTF-20 Waste product reuse | <u>Environment/Water/Reduction</u> Produced water is either properly reused in operations or appropriately disposed of following best management practices for disposal and regulatory requirements. We do not reuse produced water for any other purposes including without limitation for dust suppression, agricultural irrigation or road de-icing. |
| GRI 307: Environmental Compliance (2016) | |
| 103-1 | <u>Approach/Key Issues</u> <u>Appendix, p. 11</u> |
| 103-2 | <u>Approach/Strategy and Governance</u> <u>Communities/Addressing Concerns</u> <u>Health and Safety/HSE Management</u> <u>Appendix, p. 1</u> |
| 103-3 ¹ | <u>Approach/Strategy and Governance</u> <u>Health and Safety/HSE Management</u> |
| 307-1 | In 2017 we had no significant fines and no significant nonmonetary sanctions for noncompliance with environmental laws and regulations. |

TOPIC-SPECIFIC DISCLOSURES

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GRI 308: Supplier Environmental Assessment (2016)

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| 103-2 | <u>Workforce/Contractors Communities/Addressing Concerns Appendix, p. 1</u> |
| 103-3 ¹ | <u>Approach/Strategy and Governance Health and Safety/HSE Programs and Training Workforce/Contractors</u> |
| 308-1 | <u>Health and Safety/HSE Programs and Training Workforce/Contractors</u> We review contractor HSE management programs and performance, including on environmental issues, as part of a robust HSE audit program. |

GRI 401: Employment (2016)

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| 103-1 | <u>Approach/Key Issues Workforce/Talent Acquisition and Development Health and Safety/Health and Well-Being Appendix, p. 11</u> |
| 103-2 | <u>Approach/Strategy and Governance Workforce/Talent Acquisition and Development Health and Safety/Health and Well-Being Appendix, p. 1</u> |
| 103-3 ¹ | <u>Approach/Strategy and Governance Workforce/Talent Acquisition and Development</u> |
| 401-2 | <u>Health and Safety/Health and Well-Being</u> We offer competitive pay and benefits. In addition to a base salary, our compensation program includes variable pay, stock-based awards, a 401(k) and pension plans. Beyond financial compensation, SWN provides challenging work assignments, potential for advancement, training specific to each role and a competitive benefits package. Our benefit offerings include high-quality health and dental insurance plans; leaves of absence, including family and medical leave, personal leave, military leave, workers' compensation and short-term and long-term disability benefits; life and accidental death and dismemberment insurance; long-term care insurance; employee assistance programs; and optional supplemental insurance. We also offer a high-deductible insurance option and personal health savings accounts, which the company will help to fund. We also have implemented on-site health screenings and other health and wellness education and encouragement programs. All employees who work 20 hours or more are eligible for benefits. For more on our benefits programs see our website . |

TOPIC-SPECIFIC DISCLOSURES

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| IPIECA SE16 | <u>Workforce/Talent Acquisition and Development</u> |
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GRI 403: Occupational Health and Safety (2016)

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| 103-1 | <u>Approach/Key Issues Health and Safety Appendix, p. 11</u> |
| 103-2 | <u>Approach/Strategy and Governance Health and Safety Health and Safety/HSE Management Appendix, p. 1</u> |
| 103-3 ¹ | <u>Approach/Strategy and Governance Health and Safety/HSE Management</u> |
| 403-1 | <u>Health and Safety/HSE Programs and Training</u> |
| 403-2 | <u>Health and Safety/Metrics and Performance Data/Health and Safety</u> We report industry-standard data related to health and safety to the American Exploration and Product Council on an annual basis. |
| SASB EM-EP-320a.1 | <u>Health and Safety Health and Safety/Metrics and Performance Data/Health and Safety</u> |
| SASB EM-EP-320a.2 | <u>Health and Safety Workforce/Contractors</u> |
| DTF-3 Tracking near misses | <u>Health and Safety/Metrics and Performance</u> SWN has evolved its data system for tracking and acting on near hits for leaks, spills and accidents to improve the safety practices of the company. As part of our incident management system, SWN reports on near hits on a daily basis. On a weekly basis, these near hits are analyzed for trends and corrective actions. Also, certain critical or "high potential" near hits are designated for senior management discussion. At this level, formal investigations are completed on the high-potential near hits, including root cause analysis, corrective actions and communication across the company in the form of alert memos to minimize recurrence. |
| IPIECA HS1 | <u>Health and Safety/HSE Programs and Training Health and Safety/Spotlight: Our ONE Team Culture Workforce/Contractors</u> |
| IPIECA HS2 | <u>Health and Safety/HSE Programs and Training</u> |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
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| GRI 404: Training and Education (2016) | |
| 103-1 | <u>Approach/Key Issues</u> <u>Health and Safety/HSE Programs and Training</u> <u>Workforce/Talent Acquisition and Development</u> Appendix, p. 11 |
| 103-2 | <u>Approach/Strategy and Governance</u> <u>Health and Safety/HSE Programs and Training</u> <u>Workforce/Talent Acquisition and Development</u> Appendix, p. 1 |
| 103-3 ¹ | <u>Approach/Strategy and Governance</u> |
| 404-1 | <u>Health and Safety</u> |
| 404-2 | <u>Health and Safety/HSE Programs and Training</u> <u>Workforce/Talent Acquisition and Development</u> |
| 404-3 | <u>Workforce/Talent Acquisition and Development</u> |
| GRI 405: Diversity and Equal Opportunity (2016) | |
| 103-2 | <u>Approach/Strategy and Governance</u> <u>Workforce/Diversity</u> <u>Careers/Equal Opportunity</u> Appendix, p. 1 |
| 103-3 ¹ | <u>Approach/Strategy and Governance</u> <u>Careers/Equal Opportunity</u> |
| 405-1 | <u>Workforce/Diversity</u> <u>Data/Workforce</u> Of our 10 Board of Directors members, one is female and all are over 50 years of age. We do not track ethnic background. |
| 405-2 | <u>Workforce/Diversity</u> |
| GRI 406: Non-Discrimination (2016) | |
| 103-2 | <u>Approach/Strategy and Governance</u> <u>Workforce/Diversity</u> <u>Careers/Equal Opportunity</u> Appendix, p. 1 |
| 103-3 ¹ | <u>Approach/Strategy and Governance</u> <u>Careers/Equal Opportunity</u> |
| GRI 411: Rights of Indigenous Peoples (2016) | |
| 103-2 | <u>Communities/Engagement</u> <u>Communities/Addressing Concerns</u> In 2010, SWN was awarded licenses to explore in the Canadian province of New Brunswick. After receiving those licenses, the province implemented an on-going moratorium on hydraulic fracturing. Any future work in New Brunswick will include a hiring policy that supports strong representation of First Nations within our workforce and due diligence that focuses on First Nations' concerns. |

TOPIC-SPECIFIC DISCLOSURES

| INDICATOR | PAGE/RESPONSE/OMISSION |
|--|---|
| 103-3 ¹ | <u>Approach/Strategy and Governance</u> |
| SASB EM-EP-210a.3 | <u>Communities/Engagement</u> <u>Communities/Addressing Concerns</u> See also note for Indigenous Rights 103-2. |
| GRI 413: Local Communities (2016) | |
| 103-1 | <u>Approach/Key Issues</u> <u>Communities</u> Appendix, p. 11 |
| 103-2 | <u>Approach/Strategy and Governance</u> <u>Approach/Stakeholders</u> <u>Communities</u> Appendix, p. 1 |
| 103-3 ¹ | <u>Approach/Strategy and Governance</u> <u>Communities</u> |
| 413-1 | <u>Approach/Stakeholders</u> <u>Communities</u> <u>Environment/Water</u> <u>Environment/Land</u> <u>Health and Safety/HSE Programs and Training</u> |
| 413-2 | <u>Communities/Addressing Concerns</u> |
| SASB EM-EP-210b.1 | <u>Communities</u> |
| IPIECA SE1 | <u>Communities</u> |
| DTF-5 Avoiding seismic activity | <u>Environment/Water Reduction</u> <u>Health and Safety/HSE Training and Programs/Assurance and Assessments</u> In all of our operational areas, we undertake thorough assessments of potential seismic impacts before engaging in drilling and hydraulic fracturing operations including extensive reviews of area geology, fault lines and fractures. We base these assessments on our own and third-party data, including assessments of regulatory agencies. Regulatory agencies in all of our primary operational areas have determined seismic activity from hydraulic fracturing is very unlikely. We also assess and address potential communication between wells. During any activities that have the potential to cause seismic activity we constantly monitor pressures and shut off activity if any readings suggest possible seismicity. All of our contractors also follow the same industry best practices related to seismicity. |
| IPIECA SE4 | <u>Communities/Economic Impacts</u> <u>Communities/Giving and Volunteering</u> |

GRI 414: Supplier Social Assessment (2016)

103-2 [Approach/Strategy and Governance](#)
[Workforce/Contractors](#)
[Health and Safety/HSE Management](#)
[Health and Safety/HSE Programs and Training](#)
[Appendix, p. 1](#)

103-3¹ [Approach/Strategy and Governance](#)
[Workforce/Contractors](#)
[Health and Safety/Spotlight: Our ONE Team Culture](#)

GRI 415: Public Policy (2016)

103-2 [Approach/Strategy and Governance](#)

103-3¹ [Approach/Strategy and Governance](#)
[SWN's Political Activities](#)

415-1 [SWN's Political Activities](#)

IPIECA SE14 [Approach/Strategy and Governance](#)

ADDITIONAL MATERIAL TOPICS AND DISCLOSURES

INDICATOR | PAGE/RESPONSE/OMISSION

Setting Appropriate Targets and Metrics

103-1 [Approach/Key Issues](#)
[Health and Safety/Metrics and Performance](#)
[Environment/Air](#)
[Appendix, p. 11](#)

103-2 [Approach/Strategy and Governance](#)
[Health and Safety/Metrics and Performance](#)
[Environment/Air](#)
[Appendix, p. 1](#)

103-3¹ [Approach/Strategy and Governance](#)

Managing Contractors

103-1 [Approach/Key Issues](#)
[Workforce/Contractors](#)
[Health and Safety/Spotlight: Our ONE Team Culture](#)
[Appendix, p. 11](#)

103-2 [Approach/Strategy and Governance](#)
[Workforce/Contractors](#)
[Health and Safety/HSE Management](#)
[Health and Safety/HSE Programs and Training](#)
[Health and Safety/Spotlight: Our ONE Team Culture](#)
[Appendix, p. 1](#)

103-3¹ [Approach/Strategy and Governance](#)
[Health and Safety/HSE Management](#)

Social License to Operate

103-1 [Approach/Key Issues](#)
[Communities](#)
[Environment](#)
[Appendix, p. 11](#)

103-2 [Approach/Strategy and Governance](#)
[Communities](#)
[Environment](#)
[Appendix, p. 1](#)

103-3¹ [Approach/Strategy and Governance](#)
[Health and Safety/HSE Management](#)

REPORT BOUNDARIES

The following table lists SWN's most material issues and their boundaries. As part of our analysis of [material issues](#), we analyzed the value chain of SWN's operations to ensure we considered impacts and stakeholders at each value chain stage. This value chain analysis was used to determine whether the impacts occurred primarily internally or externally to the organization and which stakeholders were most associated with each issue, which we then used as the basis for defining the boundaries of each material issue.

| SWN MATERIAL ISSUE | GRI STANDARD | MATERIAL WITHIN THE ORGANIZATION ² | MATERIAL OUTSIDE THE ORGANIZATION ³ |
|---|---|--|---|
| Economic Performance | | | |
| Company financial health | GRI 201 - Economic performance | Exploration, development, gathering and processing | Local operations and stakeholders |
| Shareholder return | GRI 201 - Economic performance | Exploration, development, gathering and processing | Investors |
| Gas price volatility | GRI 201 - Economic performance | Exploration, development, gathering and processing | Investors, local operations and stakeholders, use phase |
| Governance | | | |
| Setting appropriate metrics and incentives | None | Exploration, development, gathering and processing | Contractors |
| Risk management | GRI 103 - Management approach | Exploration, development, gathering and processing | Investors, local operations and stakeholders |
| Health and Safety | | | |
| Safe working conditions and training | GRI 403 - Occupational health and safety | Exploration, development, gathering and processing | Contractors |
| Environment | | | |
| Environmental management, policies, targets and metrics | GRI 103 - Environment-related management approaches | Exploration, development, gathering and processing | Contractors |
| Environmental monitoring | GRI 303 - Water GRI 305 - Emissions | Exploration, development, gathering and processing | Local communities |
| GHG emissions and methane | GRI 305 - Emissions | Exploration, development, gathering and processing | Use phase |
| Impacts of transporting materials | GRI 305 - Emissions GRI 306 - Effluents and Waste | Exploration and development | Local operations and stakeholders |
| Regulation/compliance | GRI 307 - Environmental compliance | Exploration, development, gathering and processing | Local operations and stakeholders |
| Water quality, sourcing and wastewater management | GRI 303 - Water GRI 306 - Effluents and waste | Exploration, development, gathering and processing | Local operations and stakeholders |
| Well construction integrity | GRI 303 - Water GRI 306 - Effluents and waste GRI 413 - Local communities | Exploration and development | Local operations and stakeholders |
| Communities | | | |
| Community health and safety | GRI 413 - Local communities | Exploration, development, gathering and processing | Local communities |
| Economic impact in local communities | GRI 413 - Local communities | Exploration, development, gathering and processing | Local operations and stakeholders |
| Impacts on community infrastructure | GRI 413 - Local communities | Exploration, development, gathering and processing | Local communities |
| Proactive community engagement | GRI 413 - Local communities | Exploration, development, gathering and processing | Local communities |
| Social license to operate | None | Exploration, development, gathering and processing | Local operations and stakeholders |
| Workforce | | | |
| Employee training, development and career transitions | GRI 404 - Training and education | Exploration, development, gathering and processing | Contractors |
| Talent attraction and retention | GRI 401 - Employment | Exploration, development, gathering and processing | None |
| Managing contractors | None | Exploration, development, gathering and processing | Contractors |

² Defined by [value chain stage](#).

³ Defined by [value chain stage](#) and/or stakeholders directly affected. "Local operations and stakeholders" includes local communities, contractors and landowners/holders of mineral rights.

ADDITIONAL DATA⁴

Water Well Impairment Claims, 2005–2017

| All Operating Regions | Number (up through 2017) ⁵ | % of Total |
|-----------------------|---------------------------------------|------------|
| Bacterial | 85 | 40 |
| No Problem | 57 | 27 |
| Drought | 25 | 12 |
| Mechanical | 13 | 6 |
| Stray Gas | 7 | 4 |
| Miscellaneous | 22 | 11 |

| Southwest Appalachia | Number (up through 2017) ⁵ | % of Total |
|----------------------|---------------------------------------|------------|
| Bacterial | 4 | 67 |
| No Problem | 1 | 17 |
| Drought | 1 | 17 |
| Mechanical | 0 | 0 |
| Stray Gas | 0 | 0 |
| Miscellaneous | 0 | 0 |

| Northeast Appalachia | Number (up through 2017) ⁵ | % of Total |
|----------------------|---------------------------------------|------------|
| Bacterial | 14 | 42 |
| No Problem | 13 | 41 |
| Drought | 0 | 0 |
| Mechanical | 1 | 2 |
| Stray Gas | 1 | 3 |
| Miscellaneous | 4 | 13 |

| Fayetteville Shale | Number (up through 2017) ⁵ | % of Total |
|--------------------|---------------------------------------|------------|
| Bacterial | 68 | 40 |
| No Problem | 43 | 25 |
| Drought | 24 | 14 |
| Mechanical | 12 | 7 |
| Stray Gas | 6 | 4 |
| Miscellaneous | 17 | 10 |

| Sandwash | Number (up through 2017) ⁵ | % of Total |
|---------------|---------------------------------------|------------|
| Bacterial | 0 | 0 |
| No Problem | 0 | 0 |
| Drought | 0 | 0 |
| Mechanical | 0 | 0 |
| Stray Gas | 0 | 0 |
| Miscellaneous | 1 | 100 |

Number of Unconventional Wells Drilled

| | 2014 | 2015 | 2016 | 2017 |
|-----------------------|------|------|------|------|
| Fayetteville Shale | 450 | 254 | 31 | 23 |
| Southwest Appalachia | NA | 38 | 17 | 50 |
| Northeast Appalachia | 90 | 93 | 35 | 78 |
| Production-Only Plays | 1 | 1 | 0 | 1 |
| All Regions | 541 | 386 | 83 | 152 |

⁴ Much of the data in this section is broken down according to our major operating divisions. Our Fayetteville Shale division includes operations in Arkansas; Northeast Appalachia includes operations in northeast Pennsylvania; and Southwest Appalachia includes operations in West Virginia and southwest Pennsylvania. Our production-only plays include the Sandwash Basin in Colorado, the Brown Dense in southern Arkansas and Northern Louisiana, and ArkLaTex in parts of Arkansas, Louisiana and Texas. The water use, water recycling and water disposal data in this section cover our drilling, completions, production and midstream services. The 2014 data include water used at the assets we purchased in Pennsylvania and West Virginia in late 2014, for the short period at the end of the year when we owned them. The 2015 data include those assets as well as additional Pennsylvania and West Virginia assets we purchased in early 2015. None of the data include our sand plant. All water used at our sand plant (except for drinking water) is sourced on location, from the facility's lake and four groundwater wells. This water is recirculated for reuse or, for a small portion, returned to the environment via evaporation. Finally, numbers in the tables may not sum, due to rounding.

⁵ The number of claims may not always be a round number because more than one cause may be assigned to a case (for instance, where a problem was found to be caused by both drought and a mechanical problem).

Freshwater Withdrawal by Source (in barrels)

| All Regions ⁶ | 2014 | 2015 | 2016 | 2017 |
|--|-------------------|-------------------|-------------------|-------------------|
| Surface Water (for hydraulic fracturing) | 40,854,982 | 29,380,312 | 11,394,634 | 29,705,112 |
| Surface Water (for nonfracturing completion operations) | 423,580 | 301,180 | 64,740 | 113,500 |
| Surface Water, Total | 41,278,562 | 29,681,492 | 11,459,374 | 29,818,612 |
| Groundwater | 0 | 119,709 | 52,928 | 154,158 |
| Water Utilities | 1,942,447 | 550,762 | 118,275 | 207,750 |
| Total Freshwater Withdrawals | 43,221,009 | 30,351,963 | 11,630,577 | 30,180,520 |
| Fayetteville Shale | 2014 | 2015 | 2016 | 2017 |
| Surface Water (for hydraulic fracturing) | 26,935,054 | 10,163,625 | 1,359,930 | 985,916 |
| Surface Water (for nonfracturing completion operations) | 351,000 | 198,120 | 24,180 | 17,250 |
| Surface Water, Total | 27,286,054 | 10,361,745 | 1,384,110 | 1,003,166 |
| Groundwater | 0 | 0 | 0 | 0 |
| Water Utilities | 1,759,896 | 361,950 | 44,175 | 31,050 |
| Total Freshwater Withdrawals | 29,045,950 | 10,723,695 | 1,428,285 | 1,034,216 |
| Southwest Appalachia | 2014 | 2015 | 2016 | 2017 |
| Surface Water (for hydraulic fracturing) | NA | 7,677,394 | 4,547,806 | 12,451,608 |
| Surface Water (for nonfracturing completion operations) | NA | 29,640 | 13,260 | 37,500 |
| Surface Water, Total | NA | 7,707,034 | 4,561,066 | 12,489,108 |
| Groundwater | NA | 0 | 0 | 0 |
| Water Utilities | NA | 54,150 | 24,225 | 67,500 |
| Total Freshwater Withdrawals | NA | 7,761,184 | 4,585,291 | 12,556,608 |
| Northeast Appalachia | 2014 | 2015 | 2016 | 2017 |
| Surface Water (for hydraulic fracturing) | 13,626,900 | 11,281,756 | 5,486,898 | 16,248,869 |
| Surface Water (for nonfracturing completion operations) | 70,200 | 72,540 | 27,300 | 58,500 |
| Surface Water, Total | 13,697,100 | 11,354,296 | 5,514,198 | 16,307,369 |
| Groundwater | 0 | 119,709 | 52,928 | 152,911 |
| Water Utilities | 128,250 | 132,525 | 49,875 | 109,200 |
| Total Freshwater Withdrawals | 13,825,350 | 11,606,530 | 5,617,001 | 16,569,480 |
| Production-Only Plays (Sandwash, Brown Dense, ArkLaTex) | 2014 | 2015 | 2016 | 2017 |
| Surface Water (for hydraulic fracturing) | 293,028 | 257,537 | 0 | 18,719 |
| Surface Water (for nonfracturing completion operations) | 2,380 | 880 | 0 | 250 |
| Surface Water, Total | 295,408 | 258,417 | 0 | 18,969 |
| Groundwater | 0 | 0 | 0 | 1,247 |
| Water Utilities | 54,301 | 2,137 | 0 | 0 |
| Total Freshwater Withdrawals | 349,709 | 260,554 | 0 | 20,216 |

⁶ Includes production-only plays

Water Recycling

| All Operating Regions | 2014 | 2015 | 2016 | 2017 |
|--|------------|------------|------------|------------|
| Total Water Sourced [Fresh + Reuse] (barrels) | 69,377,437 | 50,683,879 | 17,266,338 | 35,015,041 |
| Total Produced Water generated ⁷ | 26,676,436 | 22,286,094 | 14,617,095 | 14,294,907 |
| Total Volume that Is Recycled or Reused Downhole by SWN (barrels) | 26,436,627 | 20,508,600 | 5,635,761 | 4,854,737 |
| Total Volume that Is Recycled to Other Operations (Drilling and Midstream) ⁸ | 69,510 | 83,870 | 0 | 0 |
| Total Volume that Is Recycled to Other Operators (recycling with other companies) ⁹ | 0 | 0 | 708,251 | 843,827 |
| Percentage of Total Water Sourced that Is Recycled Water (%) | 38.20% | 40.60% | 36.7% | 16.27% |
| Percentage of Produced Water that SWN Recycled (%) | 99.40% | 92.40% | 43.4% | 39.86% |
| Fayetteville Shale | 2014 | 2015 | 2016 | 2017 |
| Total Water Sourced [Fresh + Reuse] (barrels) | 54,131,167 | 28,243,928 | 4,690,823 | 3,514,751 |
| Total Produced Water generated ⁷ | 25,255,516 | 17,830,756 | 9,878,863 | 9,330,726 |
| Total Volume that Is Recycled or Reused Downhole by SWN (barrels) | 25,015,707 | 17,436,363 | 3,262,538 | 2,480,535 |
| Total Volume that Is Recycled to Other Operations (Drilling and Midstream) ⁸ | 69,510 | 83,870 | 0 | 0 |
| Total Volume that Is Recycled to Other Operators (recycling with other companies) ⁹ | 0 | 0 | 0 | 0 |
| Percentage of Total Water Sourced that Is Recycled Water (%) | 43.34% | 62.03% | 69.55% | 70.57% |
| Percentage of Produced Water that SWN Recycled (%) | 99.33% | 98.26% | 33.03% | 26.58% |
| Southwest Appalachia | 2014 | 2015 | 2016 | 2017 |
| Total Water Sourced [Fresh + Reuse] (barrels) | NA | 8,168,294 | 5,175,514 | 13,143,038 |
| Total Produced Water generated ⁷ | NA | 1,790,211 | 2,474,147 | 2,932,405 |
| Total Volume that Is Recycled or Reused Downhole by SWN (barrels) | NA | 407,110 | 590,223 | 586,430 |
| Total Volume that Is Recycled to Other Operations (Drilling and Midstream) ⁸ | NA | 0 | 0 | 0 |
| Total Volume that Is Recycled to Other Operators (recycling with other companies) ⁹ | 0 | 0 | 230,588 | 616,934 |
| Percentage of Total Water Sourced that Is Recycled Water (%) | NA | 5.0% | 15.9% | 9.16% |
| Percentage of Produced Water that SWN Recycled (%) | NA | 22.7% | 33.2% | 41.04% |

⁷ These volumes include flowback and produced water, encountered water during drilling and rainwater naturally captured in facility containments. Reuse water can include volumes generated during drilling that have been treated off-site and returned for additional use. It excludes recycled flowback and produced water that is supplied to other operators for their downhole hydraulic fracturing operations.

⁸ The volumes for other operational support have been treated prior to use with drilling or midstream. The water sources may include flowback and produced water, encountered water from drilling and rainwater naturally captured in facility containments.

⁹ Volumes shared from SWN to other operating companies, which they use in their operations in place of fresh water.

| Northeast Appalachia | 2014 | 2015 | 2016 | 2017 |
|--|------------|------------|-----------|------------|
| Total Water Sourced [Fresh + Reuse] (barrels) | 15,246,270 | 14,271,657 | 7,400,001 | 18,357,252 |
| Total Produced Water generated ⁷ | 1,420,920 | 2,665,127 | 2,264,085 | 2,031,776 |
| Total Volume that Is Recycled or Reused Downhole by SWN (barrels) | 1,420,920 | 2,665,127 | 1,783,000 | 1,787,772 |
| Total Volume that Is Recycled to Other Operations (Drilling and Midstream) ⁸ | 0 | 0 | 0 | 0 |
| Total Volume that Is Recycled to Other Operators (recycling with other companies) ⁹ | 0 | 0 | 477,663 | 226,893 |
| Percentage of Total Water Sourced that Is Recycled Water (%) | 9.30% | 18.70% | 30.5% | 10.97% |
| Percentage of Produced Water that SWN Recycled (%) | 100.00% | 100.00% | 99.8% | 99.16% |

Water Intensity (gallons/million BTUs (MMBTUs))

| All Operations | 2014 | 2015 | 2016 | 2017 ¹⁰ |
|----------------------------------|------|------|------|--------------------|
| Water Use to Produce Unit Energy | 1.17 | 1.04 | 0.89 | 0.63 |
| Fayetteville Shale | 2014 | 2015 | 2016 | 2017 |
| Water Use to Produce Unit Energy | 1.52 | 1.40 | 2.44 | 1.56 |
| Southwest Appalachia | 2014 | 2015 | 2016 | 2017 |
| Water Use to Produce Unit Energy | NA | 0.91 | 0.90 | 0.51 |
| Northeast Appalachia | 2014 | 2015 | 2016 | 2017 |
| Water Use to Produce Unit Energy | 0.65 | 0.73 | 0.63 | 0.69 |

Water Use per Well (barrels/well)

| Fayetteville Shale | 2014 | 2015 | 2016 | 2017 |
|---|---------|---------|---------|---------|
| Downhole Fresh Water per Well | 59,856 | 40,014 | 43,869 | 42,866 |
| Downhole Reuse Water per Well ¹¹ | 55,590 | 68,647 | 105,243 | 107,849 |
| Downhole Water per Well | 115,446 | 108,661 | 149,112 | 150,715 |
| Total Operational Water per Well | 120,291 | 111,197 | 151,317 | 152,815 |
| Southwest Appalachia | 2014 | 2015 | 2016 | 2017 |
| Downhole Fresh Water per Well | NA | 202,037 | 267,518 | 249,032 |
| Downhole Reuse Water per Well ¹¹ | NA | 10,713 | 34,719 | 11,729 |
| Downhole Water per Well | NA | 212,750 | 302,237 | 260,761 |
| Total Operational Water per Well | NA | 214,955 | 304,442 | 262,861 |
| Northeast Appalachia | 2014 | 2015 | 2016 | 2017 |
| Downhole Fresh Water per Well | 151,410 | 122,596 | 158,281 | 210,279 |
| Downhole Reuse Water per Well ¹¹ | 15,788 | 28,657 | 50,943 | 22,920 |
| Downhole Water per Well | 167,198 | 151,254 | 209,224 | 233,199 |
| Total Operational Water per Well | 169,403 | 153,459 | 211,429 | 235,349 |

¹⁰ Water intensity values reflect estimated ultimate recovery from 2017 stimulated wells.

¹¹ Excluding recycled flowback and produced water that is supplied to other operators for their downhole hydraulic fracturing operations.

Water Use per Foot of Completed Lateral (CLAT) (barrels/foot)

| | 2014 | 2015 | 2016 | 2017 |
|----------------------|------|------|------|------|
| Fayetteville Shale | 23.3 | 21.1 | 25.0 | 23.2 |
| Southwest Appalachia | NA | 32.2 | 40.3 | 36.5 |
| Northeast Appalachia | 27.6 | 28 | 34.6 | 37.6 |

Water Disposal (barrels)

| | 2014 | 2015 | 2016 | 2017 |
|---|----------------|------------------|------------------|------------------|
| Fayetteville Shale | 170,299 | 310,523 | 6,616,325 | 6,850,191 |
| Southwest Appalachia | NA | 1,383,101 | 1,653,336 | 1,729,041 |
| Northeast Appalachia | 0 | 0 | 3,422 | 17,111 |
| Total Water Disposal for Primary Production Regions Only | 170,299 | 1,693,624 | 8,273,083 | 8,596,343 |
| Sandwash Basin | 91,736 | 121,303 | 63,145 | 39,973 |
| Brown Dense | 73,356 | 23,153 | 9,143 | 8,023 |
| ArkLaTex | 317,196 | 158,598 | NA | NA |
| Total Water Disposal All Operating Regions | 652,587 | 1,996,678 | 8,345,371 | 8,644,339 |