

PENNSYLVANIA

I. Administration

(NOTE: Oil and gas activities in Pennsylvania are regulated specifically under several statutes and regulations, including but not limited to the following: [Title 58 of the Pennsylvania Consolidated Statutes, 58 Pa.C.S. §§ 2301-3504 \(Act 13\)](#); the [Coal and Gas Resource Coordination Act, Act of December 18, 1984, No. 214, 58 P.S. §§ 501-518 \(RCA\)](#), as amended; the [Oil and Gas Conservation Law, Act of July 25, 1961, P.L. 825, 58 P.S. §§ 401-407 \(OGCL\)](#) and the Unconventional Well Report Act, Act of Oct. 22, 2014, P.L. 2853, No. 173, 58 P.S. §§ 1001 – 1004.

More generally, oil and gas activities are also regulated under the Clean Streams Law (35 P.S. § 691.1, *et seq.*), the Solid Waste Management Act (SWMA) (35 P.S. § 6018.101, *et seq.*), the Dam Safety and Encroachments Act (32 P.S. § 693.1, *et seq.*), the Land Recycling and Environmental Remediation Standards Act (35 P.S. § 6026.101, *et seq.*), and the Radiation Protection Act (35 P.S. §§ 7110.101, *et seq.*).

Regulations promulgated under these statutes are found at [25 Pa.Code Chapters 78, 78a and 79](#).

1. Official name of agency regulating oil/gas exploration & production:
[Pennsylvania Department of Environmental Protection, Office of Oil and Gas Management](#), P. O. Box 8765, Harrisburg, PA 17105-8765. Phone (717) 772-2199.

Southwest District Office: 400 Waterfront Drive, Pittsburgh, PA 15222-4745. Phone (412) 442-4015.

Northwest District Office: 230 Chestnut Street, Meadville, PA 16335. Phone (814) 332-6860.

Eastern District Office: 208 West Third Street, Williamsport, PA 17701-6448. Phone (570) 321-6550.
2. Contact for regulatory updates: Elizabeth A. Nolan, Assistant Counsel Department of Environmental Protection, Bureau of Regulatory Counsel Rachel Carson State Office Building 400 Market Street Harrisburg, PA 17101 Phone: (717) 783-7468 Fax: (717) 783-7911
3. Docketing procedure: Act 13: For well permits issued under [58 Pa.C.S. § 3211\(a\)](#), certain parties (surface landowners and coal operators) may file objections. [58 Pa.C.S. § 3212](#). Any person having a direct interest in any matter subject to [58 Pa.C.S. §§ 3201-3274](#), may request that a conference

be held. [58 Pa.C.S. § 3251](#). The parties may appeal final actions of the Department to the Environmental Hearing Board. RCA: For a proposed gas well located above an active coal mine, the owner of the coal mine may file objections and any differences between the operator and coal owner must be submitted to a panel, which makes recommendations to the Department. Section 12. Final actions may be appealed to the Environmental Hearing Board. OGCL: For applications for a well spacing or drilling unit, the Department must hold a public hearing.

- a. Emergency orders: Act 13: Yes. Emergency action can be taken by the Department without a prior hearing if authorized by the secretary of designee. Final actions are appealable to the Environmental Hearing Board. [58 Pa.C.S. § 3253\(d\)](#)

- b. Notice: Act 13: Well permit applicants must provide notice of the proposed well location to (1) the surface landowner, (2) the municipality in which the tract of land upon which the well to be drilled is located, (3) each municipality within 3,000 feet of the proposed unconventional well bore, (4) the municipalities adjacent to the well, (5) all surface landowners and water purveyors whose water supplies are within 1,000 of the proposed well or, in the case of an unconventional well, within 3,000 feet of the proposed unconventional vertical well bore, (6) storage operators within 3,000 of the proposed unconventional vertical well bore, (7) the owner or leasee of any coal seams, and (8) each coal operator required to be identified on the plat. [58 Pa.C.S. § 3211\(b\)\(2\)](#). Well permit applicants must submit proof of notification with the well permit application. [58 Pa.C.S. § 3211\(b.1\)](#). Operators must give the Department 24 hours' notice prior to the commencement of drilling of a well. This notification must be provided electronically. [58 Pa.C.S. § 3211\(f\)\(1\)](#). Additionally, operators must provide 24 hours' notice prior to cementing all casing strings, conducting pressure tests of the production casing, stimulation and abandoning or plugging an unconventional well. [58 Pa.C.S. § 3211\(2\)](#). Operators of unconventional wells must provide notice to the landowner or water purveyor of water supplies indicating that the presumption of liability for contaminated water supplies established under [58 Pa.C.S. § 3218\(c\)](#) may be void if the landowner or water purveyor refused to allow the operator access to conduct a predrilling or prealteration survey. [58 Pa.C.S. § 3218\(e.1\)](#). Prior to suspending or revoking a well permit based on an operator's non-compliance, the Department must give the operator written notice. [58 Pa.C.S. § 3253\(c\)](#).

[OGCL](#): Notice of spacing and integration orders must be provided in accordance with Sections 7, 8, and 10 of the Act.

[RCA](#): Notice is issued by the Department in regard to conflicting permit

applications (Section 6), objections to drilling (Section 12), and by the well operator in regard to plugging (Section 13).

4. Agency regulating air emissions: [PADEP](#)
5. Agency regulating water quality: [PADEP](#)

II. License

1. License required: N/A for well drilling
2. Conditions of license: N/A

III. Bond/Surety

1. Purpose of surety: Bonding requirements are provided in [58 Pa.C.S. § 3225](#). This section outlines required bonding amounts based on an unconventional operator's number of wells and total well bore length of the well.
2. Plugging and restoration: Each oil and gas well owner or operator shall restore the land surface within the area disturbed in siting, drilling, completing and producing the well. See [58 Pa.C.S. § 3216](#). Upon abandoning a well, the owner or operator shall plug it in the manner prescribed in regulations of the department to stop vertical flow of fluids or gas within the well bore. See [58 Pa.C.S. § 3220](#).
3. Compliance bond required: For unconventional wells, the bond amounts depends on the operator's number of operating wells and the total well bore length of those wells. [58 Pa.C.S. § 3225](#). For example, an operator operating more than 150 wells with a total well bore length of at least 6,000 feet must submit a bond for \$600,000. [58 Pa.C.S. § 3225\(1\)\(i\)\(D\)](#). For conventional wells drilled after April 18, 1985, operators must submit a bond in the amount of \$2,500 per well, or a blanket bond of \$25,000 for all wells. 72 P.S. § 1606-E.
4. Types of surety accepted: See [58 Pa.C.S. § 3225](#).
5. Conditions of bond: Conditioned on the operator's faithful performance of the drilling, restoration, water supply replacement, and plugging requirements of [58 Pa.C.S. 3201-3274](#).
 - a. Amount per well: N/A
 - b. Amount of blanket bond: N/A

IV. Land Leasing Information

1. Leasing method: In accordance with [Executive Order 2015-03](#), to protect the lands of the Commonwealth that are held in trust for its citizens and for future generations, and subject to future advice and recommendations made by DCNR, no State Park and State Forest lands owned and/or managed by DCNR shall be leased for oil and gas development.
2. Notice method: N/A
3. Minimum bidding: N/A
4. Qualification of the bidder: N/A
5. State statutes: N/A
6. Maximum acres: N/A
7. Royalty rates: N/A
8. Agency in control of leasing: [Department of Conservation & Natural Resources](#)

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V. Setbacks

1. What rules/regulations/policies does your jurisdiction have regarding well setbacks from private residences and/or other habitable structures for use by humans or animals? [58 Pa.C.S. § 3215\(a\)](#) establishes setbacks from "buildings," defined in [58 Pa.C.S. § 3203](#) as "an occupied structure with walls and roof within which persons live or customarily work." Wells may not be drilled within 200 feet, or, in the case of an unconventional gas well, 500 feet, measured horizontally from the vertical well bore to a building. The building owner may consent to waiver of the setback. If consent is not obtained and the distance restriction would deprive the owner of the oil and gas rights of the right to produce or share in the oil or gas underlying the surface tract, the well operator shall be granted a variance from the distance restriction upon submission of a plan identifying the additional measures, facilities or practices as prescribed by the department to be employed during well site construction, drilling and operations. The variance shall include additional terms and conditions required by the department to ensure safety and protection of affected persons and property, including insurance, bonding, indemnification and technical requirements.

2. Are there other sources of information on this matter that you could identify? N/A.

VI. Spacing

1. Spacing requirements: Act 13: None. [58 Pa.C.S. § 3215](#) contains well location restrictions, including a setback from certain water wells, structure, and water bodies. [RCA](#):: Gas wells which penetrate a workable coal seam, except those permitted under the OGCL penetrating the Onondaga formation, must be at least 1,000 feet from any other well. “No permit for a gas well covered by this act which is intended to be part of a well cluster shall be issued unless the well cluster is located not less than 2,000 feet from the nearest well cluster as measured from the center of the well bore of the nearest well . . .” Section 7 of the RCA defines a “well cluster” as “an area within a well pad intended to host multiple horizontal wells and which comprises an area no greater than 5,000 square feet.” [OGCL](#): An operator may apply for a spacing order pursuant to Section 7 of the Act. A conservation well must be at least 330 feet from the boundary of the tract or unit.
 - a. Density: N/A
 - b. Lineal: N/A
2. Exceptions: [RCA](#): Yes.
 - a. Basis: Written consent between the well permit applicant and the owner of the workable coal seam.
 - b. Approval: By the Department of Environmental Protection.
3. Exceptions: [OGCL](#): Yes, if the well would not be likely to produce in paying quantities, if there are adverse surface conditions, or if coal operators have objected and a well is prohibited in a certain area. Section 7.
 - a. Approval: By the Department of Environmental Protection.

VII. Pooling

1. Authority to establish voluntary: Yes.
2. Authority to establish compulsory: Yes. OGCL, Section 8 for conservation wells.

VIII. Unitization

1. Compulsory unitization of all or part of a pool or common source of supply: Yes, for certain wells outlined in the OGCL, upon application for an integration order by an operator having an interest in the spacing unit.
2. Minimum percentage of voluntary agreement before approval of compulsory unitization: N/A
 - a. Working interest: No provision.
 - b. Royalty interest: No provision.

IX. Drilling Permit

1. Require permits for:
 - a. Drilling a producing or service well: Yes. [58 Pa.C.S. § 3211\(a\)](#).
 - b. Seismic drilling: No.
 - c. Recompletion: Yes, a new permit is required if it constitutes redrilling, alteration, deepening or drilling.
 - d. Plugging and abandoning: Act 13: Well operator or owner must notify Department and coal operator, lessee or owner of his intent to plug and abandon a well. [58 Pa.C.S. § 3220](#). [RCA](#): Any person may apply for authorization to clean out, plug or replug a nonproducing well. Section 13.
2. Permit fee:
 - a. Drilling: The permit application fee for conventional wells is based on a schedule and determined by the type of well (vertical, nonvertical) and total well bore length. [25 Pa.Code § 78.19](#). The permit fee for unconventional wells is \$4,200 for a vertical unconventional well and \$5,000 for a nonvertical unconventional well. [25 Pa.Code § 78a.19](#).
 - b. Seismic drilling: None.
 - c. Recompletion: If it constitutes redrilling, alteration, deepening or drilling, a permit application fee is required.
 - d. Plugging and abandoning: None.
 - e. Registration: N/A
3. Require filing report of work performed:

- a. Annual production report for conventional wells. [58 Pa.C.S. § 3222](#). Monthly reports for unconventional wells. [25 Pa.Code § 78a.121](#).
- b. Records of drilling or altering a well within 30 days of cessation of drilling. [58 Pa.C.S. § 3222\(b\)\(2\)](#)
- c. Completion report within 30 days after completion of the well, when the well is capable of production. [58 Pa.C.S. § 3222\(b\)\(3\)](#).
- d. Upon request of the department, the conventional well operator shall, within 90 days of completion or recompletion of drilling, submit a copy of any electrical, radioactive or other standard industry logs that have been run. Unconventional operators must submit this information to the Department within 90 days of completion or recompletion of drilling the unconventional well. Upon request of the Department, the operator shall file a copy of drill stem test charts, formation water analysis, porosity, permeability or fluid saturation measurements, core analysis and lithologic log information or sample description or other similar data as compiled.
- e. Well operator must submit certificate of plugging. OGA, [58 Pa.,C.S. § 3220](#); [RCA, Section 13](#), and under the [OGCL, 25 Pa. Code § 79.17](#).

4. Sundry notices used: N/A

X. Vertical Deviation

1. Regulation requirement:

- a. When is a directional survey necessary: Act 13: [58 Pa.C.S. § 3211](#) requires the well operator to designate the proposed angle and direction of the well, if the well is to be deviated substantially from a vertical course. This information must be stated on the plat submitted with the permit application. OGCL: A complete angular deviation and directional survey must be submitted upon completion of an intentionally deviated well. [25 Pa. Code § 79.16](#).
- b. Filing of survey required: OGA: Information on the angle and direction of well, as described above, is required to be filed with the permit application. OGCL: Yes.
- c. Format of filing: [58 Pa.C.S. § 3211](#) requires the well operator to designate the proposed angle and direction of the well, if the well is to be deviated substantially from a vertical course. This information must be stated on the plat submitted with the permit application. OGCL :A complete angular deviation and directional survey must

be submitted upon completion of an intentionally deviated well. [25 Pa. Code § 79.16](#).

XI. Casing and Tubing

1. Minimum amount required:

- a. Surface casing: [58 Pa.C.S. § 3217](#) provides: “To prevent migration of gas or fluids into sources of fresh groundwater and pollution or diminution of fresh groundwater, a string or strings of casing shall be and permanently cemented in each well drilled through the fresh water-bearing strata to a depth and manner prescribed by regulation by the department.” [25 Pa.Code §§ 78.83\(c\)](#) and [78a.83\(c\)](#) provide: “The operator shall drill to approximately 50 feet below the deepest fresh groundwater or at least 50 feet into consolidated rock, whichever is deeper, and immediately set and permanently cement a string of surface casing to that depth. Except as provided in subsection (f), the surface casing may not be set more than 200 feet below the deepest fresh groundwater except if necessary to set the casing in consolidated rock. The surface hole shall be drilled using air, freshwater, or freshwater-based drilling fluid. Prior to cementing, the wellbore shall be conditioned to ensure an adequate cement bond between the casing and the formation. The surface casing seat shall be set in consolidated rock. When drilling a new well or re-drilling an existing well, the operator shall install at least one centralizer within 50 feet of the casing seat and then install a centralizer in intervals no greater than every 150 feet above the first centralizer.”
- b. Through coal seams: Wells must be cased to prevent the migration of gas or fluids into a seam from which coal has been removed. Where the coal seam has not been removed, the well must be drilled to such a depth and size to permit the placing of casing in the well, so that all gas or fluids will be excluded from the coal seam. [58 Pa.C.S. § 3217](#). Casing and cementing requirements are established by [25 Pa. Code §§ 78.71 – 78.89](#) and [78a.71 – 78a.87](#).
- c. Production casing: Production casing requirements are provided in [25 Pa. Code §§ 78.83c](#) and [78a.83c](#).

2. Minimum amount of cement required:

- a. Surface casing: Well construction and design requirements are provided in [25 Pa. Code §§ 78.71 -78.87](#) and [78a.71 – 78a.87](#).
- b. Production casing: Well construction and design requirements are provided in [25 Pa. Code §§ 78.71-87](#) and [78a.71 – 78a.87](#)

- c. Setting time: These requirements are provided in [25 Pa. Code § 78.85\(c\)](#) and [78a.85\(c\)](#).
3. Tubing requirements:
- a. Oil wells: No provision.
 - b. Gas wells: No provision.

XII. Hydraulic Fracturing

1. Permitting:
- a. Before drilling: Pursuant to [58 Pa.C.S. § 3211\(a\)](#) no person may drill or alter a well without having first obtained a well permit from the department. If drilling is commenced within one year of permit issuance and drilling is pursued with due diligence, the well permit remains in force until the well is plugged in accordance with [Section 3220](#) or the permit is revoked. [25 Pa.Code § 78a.17](#). Accordingly, completion activities are authorized by the well permit.
 - b. Before fracing: N/A
 - c. How long before: N/A
2. Reporting Requirements: Reporting requirements related to hydraulic fracturing are outlined in [58 Pa.C.S. §§ 3222 – 3222.1](#).
- a. Where reported: Completion reports are required to be submitted to the Department 30 days after completion of the well under [Section 3222\(b\)\(3\)](#). [Section 3222\(b.1\)](#) provides the information to be included in this report, including the operator’s stimulation record. Within 60 days following the conclusion of hydraulic fracturing, the operator of the well shall complete the chemical disclosure registry form and post the form on the chemical disclosure registry. [Section 3222.1](#). [Section 3202](#) defined “chemical disclosure registry” as “the chemical registry Internet website developed by the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission or their successor organizations.”
 - b. When reported: Completion reports are required to be submitted to the Department 30 days after completion of the well, when the well is capable of production, under [Section 3222\(b\)\(3\)](#). The information submitted to the chemical disclosure registry must be submitted 60 days after hydraulic fracturing activities are completed. [Section 3222.1](#)

3. Source water requirements: [Section 3211\(m\)](#) requires a person withdrawing water or using water from sources within the Commonwealth for the drilling or hydraulic fracture stimulation of any natural gas well completed in an unconventional formation to obtain an approved water management plan. The plan requirements are outlined in [Section 3211\(m\)\(2\)](#) and [25 Pa.Code § 78a.69](#).
4. Mechanical Integrity:
 - a. Cementing log required: Yes, pursuant to [25 Pa.Code §§ 78.85](#) and [78a.85](#), a copy of the cement job log shall be available at the well site for inspection for the department during drilling operations and must include the mix water temperature and pH, type of cement with listing and quantity of additive types, the volume, yield and density in pounds per gallon of the cement and the amount of cement returned to the surface, if any. Cementing procedural information must include a description of the pumping rates in barrels per minute, pressures in pounds per square inch, time in minutes and sequence of events during the cementing operation. The cement job log shall be maintained by the operator after drilling operations for at least 5 years and be made available to the Department upon request.
 - b. Pressure testing: Pressure testing requirements are outlined in [25 Pa.Code §§ 78.83 – 78.84, 78.88](#) and [78a.83 – 78a.84; 78a.88](#)
 - c. Pressure monitoring: [25 Pa. Code §§ 78.88](#) and [78a.88](#) require quarterly inspections which may include pressure tests to demonstrate the integrity of the well.
 - d. Blowout preventer required: Yes. Blow-out prevention requirements are outlined in [25 Pa.Code §§ 78.71 – 78.72](#) and [78a.71 – 78a.72](#).
5. Disposal of flowback fluids:
 - a. Retaining pits: Yes. [25 Pa.Code §§ 78.55 – 78.63](#) address waste management on the conventional well sites. Pits are not allowed on unconventional well sites. [25 Pa.Code § 78a.56](#).
 - b. Tanks: [25 Pa. Code §§ 78.56](#) and [78a.56](#) contain requirements for temporary containment of flowback in tanks.
 - c. Approved discharge to surface water: [25 Pa. Code Chapter 95](#) specifies that new and expanding treated discharges of wastewater resulting from fracturing, production, field exploration, drilling or well completion of natural gas wells may be authorized provided that

certain requirements are met, including certain effluent limitations (PA Safe Drinking Water Act standards).

- d. Underground injection: Before DEP issues a permit for a disposal well, the operator must obtain a permit from EPA's Underground Injection Control (UIC) program, see [25 Pa. Code § 78.18](#). Under the federal Safe Drinking Water Act (SDWA), EPA is required to develop minimum federal requirements to prevent injection wells from contaminating underground sources of drinking water, including well permitting and well construction, operation and monitoring requirements. States may apply to EPA for primacy to implement a state UIC program – Pennsylvania, however, has not adopted primacy for a UIC program. Instead, EPA directly implements the UIC program for the Commonwealth.

6. Chemical disclosure requirement:

- a. Mandatory: Yes.
- b. Where disclosed: To DEP and the chemical disclosure registry developed by the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission.
- c. When disclosed (pre-fracing, post-fracing, both): Completion reports are to be submitted to the department 30 days after completion of a well, when the well is capable of production. 60 days after the conclusion of hydraulic fracturing, the operator must complete the chemical disclosure registry and post on the internet website developed by the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission.
- d. Time limit to disclose: See above.
- e. Information required to be disclosed: Completion reports requirements are outlined in [58 Pa.C.S. § 3222\(b.1\)](#). Chemical disclosure registry requirements are outlined in [58 Pa.C.S. § 3222.1\(b\)](#).
- f. Trade secret protection: [58 Pa.C.S. § 3222\(b.2\)](#) specifies that “When an operator submits its stimulation record under (b.1), the operator must designate specific portions of the stimulation record as containing a trade secret or confidential proprietary information. The department shall prevent disclosure of a designated trade secret or confidential proprietary information to the extent permitted by the act of February 14, 2008 (P.L. 6, No.3), known as the Right-To-Know-Law or other applicable state law.” [58 Pa.C.S.](#)

[§ 3222.1\(b\)](#) contains trade secret protection for submissions to the chemical disclosure registry.

- g. Required disclosure to health/emergency personnel: Yes, requirements provided in [58 Pa.C.S. § 3222.1\(b\)\(10\)-\(11\)](#).

XIII. Underground Injection

- 1. Agencies that control the underground injection of fluid by well class: EPA

XIV. Completion

- 1. Completion report required: Yes.
 - a. Time limit: A completion report containing the information required by [58 Pa.C.S. § 3222](#) and [25 Pa. Code §§ 78.122](#) or [78a.122](#) must be filed within 30 days after completion of the well, when the well is capable of production. [58 Pa.C.S. § 3222\(b\)\(2\)](#).
 - b. Where submitted: To the Department of Environmental Protection.
- 2. Well logs required to be filed: Yes.
 - a. Time limit: Well records must be filed within 30 days of cessation of drilling. [58 Pa.C.S. 3222\(b\)\(1\)](#). Upon request of the department, a conventional well operator shall, within 90 days of completion or recompletion of drilling, submit a copy of any electrical, radioactive or other standard industry logs which have been run. [58 Pa.C.S. § 3222\(b\)\(4\)](#). Unconventional operators must submit such information within 90 days of completion or recompletion of drilling in all cases. [25 Pa.Code § 78a.123\(a\)](#). Upon request by the department within one year, the well operator shall file a copy of drill stem test charts, formation water analysis, porosity, permeability or fluid saturation measurements, core analysis and lithologic log or sample description or other similar data as compiled. No information shall be required unless the well operator had it compiled in the ordinary course of business, and interpretation of data under this paragraph is not required to be filed. [58 Pa.C.S. § 3222\(b\)\(5\)](#).
 - b. Where submitted: To the Department of Environmental Protection.
 - c. Confidential time period: None.
 - d. Available for public use: Yes.
 - e. Log catalog available: N/A
- 3. Multiple completion regulation: Not applicable.

- a. Approval obtained: Not applicable.
- 4. Commingling in well bore: Not applicable.
 - a. Approval obtained: Not applicable.

XV. Oil Production

- 1. Definition of an oil well: "Oil Well" is not a defined term. "Well" and "oil" are defined separately at [58 Pa.C.S. § 3203](#).
- 2. Potential tests required: None.
 - a. Time interval: Not applicable.
 - b. Witness required: Not applicable.
- 3. Maximum gas-oil ratio: No regulation.
 - a. Provision for limiting gas-oil ratio: No.
 - b. Exception to limiting gas-oil ratio: No.
- 4. Bottom-hole pressure test reports required: Provision to include in well record, if taken.
 - a. Periodical bottom-hole pressure surveys: No.
- 5. Commingling oil in common facilities: No.
- 6. Measurement involving meters: No.
- 7. Production reports: [58 Pa.C.S. § 3222\(a\)-\(a.1\)](#).
 - a. By lease: No.
 - b. By well: Annual production report is required on an individual well basis.
 - c. Time limit: Annual for conventional wells, [25 Pa.Code § 78.121](#), and monthly for unconventional wells, [25 Pa.Code § 78a.121](#).

XVI. Gas Production

- 1. Definition of a gas well: "Gas well" is not a defined term in Act 13. "Gas" and "Well" are defined separately in [58 Pa.C.S. § 3203](#). "Gas well" is defined in the RCA as "a well which is producing or capable of producing marketable quantities of gas or of gas and oil with a gas-oil ratio of more than 100 MCF per bbl. of oil."

2. Pressure base 14.7 psia @ 60 degrees F. Initial potential tests:
 - a. Time interval: Not applicable.
 - b. Witness required: Not applicable.
3. Bottom-hole pressure test reports required: Provision to include in well record, if taken.
 - a. Periodical bottom-hole pressure surveys: No.
4. Commingling of gas in common facilities: No.
5. Measurement involving meters: No
6. Production reports: [58 Pa.C.S. § 3222\(a\)-\(a.1\)](#).
 - a. By lease: No.
 - b. By well: Annual production report is required on an individual well basis.
 - c. Time limits: Annual for conventional wells and monthly for unconventional wells. [58 Pa.C.S. § 3222\(a\)](#) and [25 Pa.Code § 78a.121](#).