

TITLE 19 NATURAL RESOURCES AND WILDLIFE
CHAPTER 15 OIL AND GAS
PART 27 VENTING AND FLARING OF NATURAL GAS

19.15.27.1 ISSUING AGENCY: Oil Conservation Commission.
[19.15.27.1 NMAC – N, xx/xx/xxxx]

19.15.27.2 SCOPE: 19.15.27 NMAC applies to persons engaged in oil and gas exploration and production within New Mexico.
[19.15.27.2 NMAC – N, xx/xx/xxxx]

19.15.27.3 STATUTORY AUTHORITY: 19.15.27 NMAC is adopted pursuant to the Oil and Gas Act, Section 70-2-6, Section 70-2-11 and Section 70-2-12 NMSA 1978.
[19.15.27.3 NMAC – N, xx/xx/xxxx]

19.15.27.4 DURATION: Permanent.
[19.15.27.4 NMAC – N, xx/xx/xxxx]

19.15.27.5 EFFECTIVE DATE: {DATE}, unless a later date is cited at the end of a section.
[19.15.27.5 NMAC – N, xx/xx/xxxx]

19.15.27.6 OBJECTIVE: To regulate the venting and flaring of natural gas from wells and production equipment and facilities to prevent waste and protect correlative rights, public health, and the environment.
[19.15.27.6 NMAC – N, xx/xx/xxxx]

19.15.27.7 DEFINITIONS: Terms shall have the meaning specified in 19.15.2 NMAC except as specified below.

A. “ALARM” means advanced leak and repair monitoring technology for detecting natural gas leaks or releases that is not required by applicable state or federal law, rule, or regulation, and which the division has approved as eligible to earn a credit against the reported volume of lost natural gas pursuant to Paragraph (4) of Subsection B of 19.15.27.9 NMAC.

B. “Average daily well production” means the number derived by dividing the total volume of natural gas produced from a single well in the preceding 12 months by the number of days that natural gas was produced from the well during the same period.

C. “Average daily facility production” means, for a facility receiving production from two or more wells, the number derived by dividing the total volume of natural gas produced from all wells at the facility during the preceding 12 months by the number of days, not to exceed 365, that natural gas was produced from one or more wells during the same period.

D. “AVO” means audio, visual and olfactory.

E. “Completion operations” means the period that begins with the initial perforation of the well in the completed interval and concludes at the end of separation flowback.

F. “Drilling operations” means the period that begins when a well is spud and concludes when casing and cementing has been completed and casing slips have been set to install the tubing head.

G. “Exploratory well” means a well located in a spacing unit the closest boundary of which is two miles or more from:

(1) the outer boundary of a defined pool that has produced oil or gas from the formation to which the well is or will be completed; and

(2) an existing gathering pipeline as defined in 19.15.28 NMAC.

H. “Emergency” means a temporary, infrequent, and unavoidable event in which the loss of natural gas is uncontrollable or necessary to avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment, but does not include an event arising from or related to:

(1) the operator’s failure to install appropriate equipment of sufficient capacity to accommodate the anticipated or actual rate and pressure of production;

(2) except as provided in Subparagraph (4), the operator’s failure to limit production when the production rate exceeds the capacity of the related equipment or natural gas gathering system as defined in 19.15.28 NMAC, or exceeds the sales contract volume of natural gas;

- (3) scheduled maintenance;
- (4) venting or flaring of natural gas for more than eight hours after notification that is caused by an emergency, unscheduled maintenance, or malfunction of a natural gas gathering system;
- (5) the operator's negligence;
- (6) recurring equipment failure 4 or more times within a single reporting area pursuant to Subsection A of 19.15.27.9 NMAC experienced by the operator within the preceding 30 days; or
- (7) Four or more emergencies within a single reporting area, pursuant to Subsection A of 19.15.27.9 NMAC, experienced by the operator within the preceding 30 days, unless the division determines the operator could not have reasonably anticipated the current event and it was beyond the operator's control.
- I. **"Flare" or "Flaring"** means the controlled combustion of natural gas in a device designed for that purpose.
- J. **"Flare stack"** means a device equipped with a burner used to flare natural gas.
- K. **"Gas-to-oil ratio (GOR)"** for purposes of 19.15.27 NMAC means the ratio of natural gas to oil in the production stream expressed in standard cubic feet of natural gas per barrel of oil.
- L. **"Initial flowback"** means the period during completion operations that begins with the onset of flowback and concludes when it is technically feasible for a separator to function.
- M. **"Malfunction"** means a sudden, unavoidable failure or breakdown of equipment beyond the reasonable control of the operator that substantially disrupts operations, but does not include a failure or breakdown that is caused entirely or in part by poor maintenance, careless operation, or other preventable equipment failure or breakdown.
- N. **"N₂"** means nitrogen gas.
- O. **"Natural gas"** means a gaseous mixture of hydrocarbon compounds, primarily composed of methane, and includes both casinghead gas and gas as those terms are defined in 19.15.2 NMAC.
- P. **"Production operations"** means the period that begins on the earlier of 31 days following the commencement of initial flowback or following completion of separation flowback and concludes when the well is plugged and abandoned.
- Q. **"Producing in paying quantities"** mean the production of a quantity of oil and gas that yields revenue in excess of operating expenses.
- R. **"Separation flowback"** means the period during completion operations that begins when it is technically feasible for a separator to function and concludes no later than 30 days after the commencement of initial flowback.
- S. **"Vent" or "Venting"** means the release of uncombusted natural gas to the atmosphere.
[19.15.27.7 NMAC – N, xx/xx/xxxx]

19.15.27.8 VENTING AND FLARING OF NATURAL GAS:

- A. Venting or flaring of natural gas during drilling, completion, or production operations that constitutes waste as defined in 19.15.2 NMAC is prohibited. The operator has a general duty to maximize the recovery of natural gas by minimizing the waste of natural gas through venting and flaring. During drilling, completion and production operations, the operator may vent or flare natural gas only as authorized in Subsections B, C and D of 19.15.27.8 NMAC. In all circumstances, the operator shall flare rather than vent natural gas except when flaring is technically infeasible or would pose a risk to safe operations or personnel safety, and venting is a safer alternative than flaring.
- B. **Venting and flaring during drilling operations.**
 - (1) The operator shall capture or combust natural gas if technically feasible using best industry practices and control technologies.
 - (2) A properly-sized flare stack shall be located at a minimum of 100 feet from the nearest surface hole location unless otherwise approved by the division.
 - (3) In an emergency or malfunction, the operator may vent natural gas to avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment. The operator shall report natural gas vented or flared during an emergency or malfunction to the division pursuant to Paragraph (1) of Subsection G of 19.15.27.8 NMAC.
- C. **Venting and flaring during completion or recompletion operations.**
 - (1) During initial flowback, the operator shall route flowback fluids into a completion or storage tank and, if technically feasible under the applicable well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.

- (2) During separation flowback, the operator shall capture and route natural gas from the separation equipment:
- (a) to a gas flowline or collection system, reinject into the well, or use on-site as a fuel source or other purpose that a purchased fuel or raw material would serve; or
 - (b) to a flare if routing the natural gas to a gas flowline or collection system, reinjecting it into the well, or using it on-site as a fuel source or other purpose that a purchased fuel or raw material would serve would pose a risk to safe operation or personnel safety.
- (3) If natural gas does not meet gathering pipeline quality specifications, the operator may flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner, provided that:
- (a) a properly-sized flare stack is equipped with an automatic igniter or continuous pilot;
 - (b) the operator analyzes natural gas samples twice per week;
 - (c) the operator routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met; and
 - (d) the operator provides the pipeline specifications and natural gas analyses to the division upon request.

D. Venting and flaring during production operations. The operator shall not vent or flare natural gas except:

- (1) during an emergency or malfunction;
- (2) to unload or clean-up liquid holdup in a well to atmospheric pressure, provided
 - (a) the operator does not vent after the well achieves a stabilized rate and pressure;
 - (b) for liquids unloading by manual purging, the operator remains present on-site until the end of unloading or posts at the well site the contact information of the personnel conducting the liquids unloading operation and ensures that personnel remains within 30 minutes' drive time of the well being unloaded until the end of unloading, takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time and takes reasonable actions to minimize venting to the maximum extent practicable;
 - (c) for a well equipped with a plunger lift system or an automated control system, the operator optimizes the system to minimize the venting of natural gas; or
 - (d) during downhole well maintenance, only when the operator uses a workover rig, swabbing rig, coiled tubing unit or similar specialty equipment and minimizes the venting of natural gas to the extent that it does not pose a risk to safe operations and personnel safety and is consistent with best management practices;
- (3) during the first 12 months of production from an exploratory well, or as extended by the division for good cause shown, provided:
 - (a) the operator proposes and the division approves the well as an exploratory well;
 - (b) the operator is in compliance with its statewide gas capture requirements; and
 - (c) within 15 days of determining an exploratory well is capable of producing in paying quantities, the operator submits an updated form C-129 to the division, including a natural gas management plan and timeline for connecting the well to a natural gas gathering system or as otherwise approved by the division; or
- (4) during the following activities unless prohibited by applicable state or federal law, rule, or regulation for the emission of hydrocarbons and volatile organic compounds:
 - (a) gauging or sampling a storage tank or other low-pressure production vessel;
 - (b) loading out liquids from a storage tank or other low-pressure production vessel to a transport vehicle;
 - (c) repair and maintenance, including blowing down and depressurizing production equipment to perform repair and maintenance;
 - (d) normal operation of a gas-activated pneumatic controller or pump;
 - (e) normal operation of a storage tank or other low-pressure production vessel, but not including venting from a thief hatch that is not properly closed or maintained on an established schedule;
 - (f) normal operation of dehydration units and amine treatment units;
 - (g) normal operations of compressors, compressor engines, and turbines;
 - (h) normal operations of valves, flanges and connectors that is not the result of inadequate equipment design or maintenance;
 - (i) a bradenhead test;

- (j) a packer leakage test;
- (k) a production test lasting less than 24 hours unless the division requires or approves a longer test period;
- (l) when natural gas does not meet the gathering pipeline specifications, provided the operator analyzes natural gas samples twice per week to determine whether the specifications have been achieved, routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met and provides the pipeline specifications and natural gas analyses to the division upon request; or
- (m) Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities from the pipeline or equipment.

E. Performance standards

- (1) The operator shall design completion and production separation equipment and storage tanks for maximum anticipated throughput and pressure to minimize waste.
- (2) The operator of a permanent storage tank associated with production operations that is routed to a flare or control device installed after **{EFFECTIVE DATE OF RULE}** shall equip the storage tank with an automatic gauging system that reduces the venting of natural gas.
- (3) The operator shall combust natural gas in a flare stack that is properly sized and designed to ensure proper combustion efficiency.
 - (a) A flare stack installed or replaced after **{EFFECTIVE DATE OF RULE}** shall be equipped with an automatic ignitor or continuous pilot.
 - (b) A flare stack installed before **{EFFECTIVE DATE OF RULE}** shall be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts the operator that the flare may have malfunctioned no later than 18 months after **{EFFECTIVE DATE OF RULE}**.
 - (c) A flare stack located at a well or facility, with an average daily production of equal to or less than 60,000 cubic feet of natural gas shall be equipped with an automatic ignitor or continuous pilot if the flare stack is replaced after **{EFFECTIVE DATE OF RULE}**.
 - (4) A flare stack constructed after **{EFFECTIVE DATE OF RULE}** shall be securely anchored and located at least 100 feet from the well and storage tanks unless otherwise approved by the division.
 - (5) The operator shall conduct an AVO inspection on the frequency specified below to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
 - (a) During an AVO inspection the operator shall inspect all components, including flare stacks, thief hatches, closed vent systems, pumps, compressors, pressure relief devices, valves, lines, flanges, connectors, and associated piping to identify defects, leaks, and releases by:
 - (i) a comprehensive visual inspection;
 - (ii) listening for pressure and liquid leaks; and
 - (iii) smelling for unusual and strong odors.
 - (b) The operator shall conduct an AVO inspection weekly:
 - (i) during the first year of production; and
 - (ii) on a well or facility with an average daily production greater than 60,000 cubic feet of natural gas.
 - (c) The operator shall conduct an AVO inspection weekly if the operator is on site, and in no case less than once per calendar month with at least 20 calendar days between inspections:
 - (i) on a well or facility with an average daily production equal to or less than 60,000 cubic feet of natural gas; and
 - (ii) on shut-in, temporarily abandoned, or inactive wells.
 - (d) The operator shall make and keep a record of an AVO inspection for not less than five years and make such record available for inspection by the division upon request.
 - (6) Subject to the division's prior written approval, the operator may use a remote or automated monitoring technology to detect leaks and releases in lieu of an AVO inspection.
 - (7) For facilities constructed after **{EFFECTIVE DATE OF RULE}**, facilities shall be designed to minimize waste;
 - (8) Operators have an obligation to minimize waste and shall resolve emergencies as quickly and safely as is feasible.

F. Measurement or estimation of vented and flared natural gas.

(1) The operator shall measure or estimate the volume of natural gas that it vents, flares, or beneficially uses during drilling, completion, and production operations regardless of the reason or authorization for such venting or flaring.

(2) The operator shall install equipment to measure the volume of natural gas flared from existing process piping or a flowline piped from equipment such as high pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after **{EFFECTIVE DATE OF RULE}**, that has an average daily production greater than 60,000 cubic feet of natural gas.

(3) Measuring equipment shall conform to an industry standard such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

(4) Measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

(5) If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, the operator may estimate the volume of vented or flared natural gas using a methodology that can be independently verified.

(6) For a well that does not require measuring equipment, the operator shall estimate the volume of vented and flared natural gas based on the result of an annual GOR test for that well reported on form C-116 to allow the division to independently verify the volume and rate of the flared natural gas.

(7) The operator shall install measuring equipment whenever the division determines that metering is practicable or the existing measuring equipment or GOR test is not sufficient to measure the volume of vented and flared natural gas.

G. Reporting of vented or flared natural gas.

(1) Venting or flaring caused by an emergency, a malfunction or of long duration.

(a) The operator shall notify the division of venting or flaring that exceeds 50 MCF in volume and either results from an emergency or malfunction, or lasts eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 in lieu of a C-141, except as provided by Subparagraph (d) of Paragraph (1) of Subsection G of 19.15.27.8 NMAC, with the division as follows:

(i) for venting or flaring that equals or exceeds 50 MCF but less than 500 MCF from a single event, notify the division in writing by filing a form C-129 no later than 15 days following discovery or commencement of venting or flaring;

(ii) for venting or flaring that equals or exceeds 500 MCF or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event, notify the division verbally or by e-mail as soon as possible and no later than 24 hours following discovery or commencement of venting or flaring and provide the information required in form C-129. No later than 15 days following the discovery or commencement of venting or flaring, the operator shall file a form C-129 that verifies, updates, or corrects the verbal or e-mail notification; and

(iii) no later than 15 days following the termination of venting or flaring, notify the division by filing a form C-129.

(b) The operator shall provide and certify the accuracy of the following information in the form C-129:

- (i) operator's name;
 - (ii) name and type of facility;
 - (iii) equipment involved;
 - (iv) compositional analysis of vented or flared natural gas that is representative of the well or facility;
 - (v) date(s) and time(s) that venting or flaring was discovered or commenced and terminated;
 - (vi) measured or estimated volume of vented or flared natural gas;
 - (vii) cause and nature of venting or flaring;
 - (viii) steps taken to limit the duration and magnitude of venting or flaring;
- and
- (ix) corrective actions taken to eliminate the cause and recurrence of venting or flaring.

(c) At the division's request, the operator shall provide and certify additional information by the specified date.

(d) The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.

(2) Monthly reporting of vented and flared natural gas. For each well or facility at which venting or flaring occurred, the operator shall separately report the volume of vented natural gas and volume of flared natural gas for each month in each category listed below. Beginning October 1, 2021, the operator shall gather data for quarterly reports in a format specified by the division and submit by February 15, 2022 for the fourth quarter and May 15, 2022 for the first quarter. Beginning April 2022, the operator shall submit a form C-115B monthly on or before the 15th day of the second month following the month in which it vented or flared natural gas. The operator shall specify whether it estimated or measured each reported volume. In filing the initial report, the operator shall provide the methodology (measured or estimated using calculations and industry standard factors) used to report the volumes and shall report changes in the methodology on future forms. The operator shall make and keep records of the measurements and estimates, including records showing how it calculated the estimates, for no less than five years and make such records available for inspection by the division upon request. The categories are:

- (a) emergency;
- (b) non-scheduled maintenance or malfunction, including the abnormal operation of equipment;
- (c) routine repair and maintenance, including blowdown and depressurization;
- (d) routine downhole maintenance, including operation of workover rigs, swabbing rigs, coiled tubing units and similar specialty equipment;
- (e) manual liquid unloading;
- (f) storage tanks;
- (g) insufficient availability or capacity in a natural gas gathering system during the separation phase of completion operations or production operations;
- (h) natural gas that is not suitable for transportation or processing because:
 - (i) N₂, H₂S, or CO₂ concentrations do not meet gathering pipeline quality specifications; or
 - (ii) O₂ concentrations do not meet gathering pipeline quality specifications except during commissioning of pipelines, equipment, or facilities pursuant to Subparagraph (l) of Paragraph (4) of Subsection D of 19.15.27.8 NMAC, except as otherwise approved by the division;
- (i) venting as a result of normal operation of pneumatic controllers and pumps, unless the operator vents or flares less than 500,000 cubic feet per year of natural gas;
- (j) improperly closed or maintained thief hatches;
- (k) venting or flaring in excess of eight hours that is caused by an emergency, unscheduled maintenance or malfunction of a natural gas gathering system as defined in 19.15.28 NMAC;
- (l) venting and flaring from an exploratory well; and
- (m) other surface waste as defined in Subparagraph (b) of Paragraph (1) of Subsection W of 19.15.2.7 NMAC that is not described above.

(3) Upon submittal of the C-115B report, the division will compile and publish on the division's website an operator's vented and flared natural gas information for each month on a volumetric and gas capture percentage basis.

(a) To calculate the lost natural gas on a volumetric basis, the operator shall deduct the volume of natural gas sold, used for beneficial use, vented or flared during an emergency, and vented or flared because it was not suitable for transportation or processing due to N₂, H₂S, or CO₂ concentrations, vented as a result of normal operation of pneumatic controllers and pumps if reported pursuant to Subparagraph (i) of Paragraph (2) of Subsection G of 19.15.27.8 NMAC, or vented or flared from an exploratory well with division approval from the natural gas produced.

(b) To calculate the lost natural gas captured on a percentage basis, the operator shall deduct the volume of lost gas calculated in Subparagraph (a) of Paragraph (3) of Subsection G of 19.15.27.8 NMAC from the total volume of natural gas produced and divide by the total volume of natural gas produced;

(4) Beginning June 2022, the operator shall provide a copy of the C-115B to the New Mexico state land office for a well or facility in which the state owns a royalty interest and the operator shall notify all royalty interest owners of their ability to obtain the information from the division's website at the time the initial C-115B is filed.

(5) Upon the New Mexico environment department's request, the operator shall promptly provide a copy of any form filed pursuant to 19.15.27 NMAC.
[19.15.27.8 NMAC – N, xx/xx/xxxx]

19.15.27.9 STATEWIDE NATURAL GAS CAPTURE REQUIREMENTS:

A. Statewide natural gas capture requirements. Commencing April 1, 2022, the operator shall reduce the annual volume of vented and flared natural gas in order to capture no less than ninety-eight percent of the natural gas produced from its wells in each of two reporting areas, one north and one south of the Township 10 North line, by December 31, 2026. The division shall calculate and publish the division's website each operator's baseline natural gas capture rate based on the operator's fourth quarter 2021 and first quarter 2022 quarterly reports as per paragraph 2 of subsection G of 19.15.27.8 NMAC. In each calendar year between January 1, 2022 and December 31, 2026, the operator shall increase its annual percentage of natural gas captured in each reporting area in which it operates based on the following formula: (baseline loss rate minus two percent) divided by five, except that for 2022 only, an operator's percentage of natural gas captured shall not be less than seventy-five percent of the annual gas capture percentage increase (2022 baseline loss rate minus two percent divided by five times 0.75), and the balance shall be captured in 2023.

(1) The following table provides examples of the formula based on a range of baseline natural gas capture rates.

Baseline Natural Gas Capture Rate	Minimum Required Annual Natural Gas Capture Percentage Increase
90-98%	0-1.6%
80-89%	>1.6-3.6%
70-79%	>3.6-5.6%
0-69%	>5.6-19.6%

(2) If the operator's baseline capture rate is less than sixty percent, the operator shall submit by the specified date to the division for approval a plan to meet the minimum required annual capture percentage increase.

(3) An operator's acquisition or sale of one or more wells from another operator shall not affect its annual natural gas capture requirements. No later 60 days following the acquisition or sale, the operator may file a written request to the division requesting to modify its gas capture percentage requirements for good cause based on its acquisition or sale. The division may approve, approve with conditions, or deny the request in its sole discretion.

(4) No later than March 30 following the reporting year, an operator that has not met its annual natural gas capture requirement for the previous year shall submit to the division a compliance plan demonstrating its ability to comply with its annual gas capture requirement for the current year. If the division determines, after a reasonable opportunity to meet with the operator, that the compliance plan does not demonstrate the operator's ability to comply with its annual gas capture requirement for the current year the operator's approved APDs for wells that have not been spud shall be suspended pending a division hearing to be held no later than 30 days after the determination. Nothing in this subparagraph shall prevent the division from taking any other action authorized by law for the operator's failure to comply with its annual gas capture requirement, including shutting in wells and assessing civil penalties.

B. Accounting. No later than February 28 of each year beginning in 2023, the operator shall submit a report certifying compliance with its statewide gas capture requirements. The operator shall determine compliance with its statewide gas capture requirements by deducting any ALARM credits approved pursuant to this subsection from the aggregated volume of lost gas calculated for each month during the preceding year pursuant to Subparagraph (a) of Paragraph (3) of Subsection G of 19.15.27.8 NMAC, deducting that aggregated volume of lost gas from the aggregated volume of natural gas produced for each month during the preceding year, and dividing that volume by the aggregated volume of natural gas produced for each month during the preceding year.

(1) An operator that used a division-approved ALARM technology to monitor for leaks and releases may obtain a credit against the volume of lost natural gas if it discovered the leak or release using the ALARM technology and the operator:

(a) isolated the leak or release within 48 hours following field verification;

(b) repaired the leak or release within 15 days following field verification or another date approved by the division;

(c) timely notified the division by filing a form C-129 or form C-141; and

(d) used ALARM monitoring technology as a routine and on-going aspect of its waste-reduction practices.

(i) For discrete waste-reduction practices such as aerial methane monitoring, the operator must use the technology at least twice per year; and

(ii) for waste-reduction practices such as automated emissions monitoring systems that operate routinely or continuously, the division will determine the required frequency of use.

(2) An operator may file an application with the division for a credit against its volume of lost natural gas that identifies:

(a) the ALARM technology used to discover the leak or release;

(b) the dates on which the leak or release was discovered, field-verified, isolated and repaired;

(c) the method used to measure or estimate the volume of natural gas leaked or released which method shall be consistent with Subsection F of 19.15.27.8 NMAC;

(d) a description and the date of each action taken to isolate and repair the leak or release;

(e) visual documentation or other verification of discovery, isolation and repair of the leak or release;

(f) a certification that the operator did not know or have reason to know of the leak or release before discovery using ALARM technology; and

(g) a description of how the operator used ALARM technology as a routine and on-going aspect of its waste-reduction practices.

(3) For each leak or release reported by an operator that meets the requirements of Paragraphs (3) and (4) of Subsection B of 19.15.28.10 NMAC, the division, in its sole discretion, may approve a credit that the operator can apply against its reported volume of lost natural gas as follows:

(a) a credit of forty percent of the volume of natural gas discovered and isolated within 48 hours of discovery and timely repaired;

(b) an additional credit of twenty percent if the operator used ALARM technology no less than once per calendar quarter as a routine and on-going aspect of its waste-reduction practices.

(4) A division-approved ALARM credit shall:

(a) be used only by the operator who submitted the application pursuant to Paragraph (4) of Subsection B of 19.15.27.10 NMAC;

(b) not be transferred to or used by another operator, including a parent, subsidiary, related entity, or person acquiring the well;

(c) be used only once; and

(d) expire 24 months after division approval.

(5) The division will publish a list of approved ALARM technology.

C. Third-party verification. The division may request that an operator retain a third party to verify any data or information collected or reported pursuant to this part, make recommendations to correct or improve the collection and reporting of data and information, submit a report of the verification and recommendations to the division by the specified date, and implement the recommendations in the manner approved by the division. If the division and the operator cannot reach agreement on the division's request, the operator may file an application for hearing before the division. The operator, at its own expense, shall retain a third party approved by the division to conduct the activities agreed to by the division and the operator or ordered by the division following a hearing.

D. Natural gas management plan.

(1) After **{EFFECTIVE DATE OF RULE}**, the operator shall file a natural gas management plan with each APD for a new or recompleted well. The operator may file a single natural gas management plan for multiple wells drilled or recompleted from a single well pad or that will be connected to a central delivery point. The natural gas management plan shall describe the actions that the operator will take at each proposed well to meet its statewide natural gas capture requirements and to comply with the requirements of Subsections A through F of 19.15.27.8 NMAC, including for each well:

(a) the operator's name and OGRID number;

(b) the name, API number, location and footage;

(c) the anticipated dates of drilling, completion and first production;
(d) a description of operational best practices that will be used to minimize venting during active and planned maintenance; and
(e) the anticipated volumes of liquids and gas production and a description of how separation equipment will be sized to optimize gas capture.

(2) Beginning April 1, 2022, an operator that, at the time it submits an APD for a new or recompleted well is, cumulatively for the year, not in compliance with its baseline natural gas capture rate for the applicable reporting area if the APD is submitted on or after April 1, 2022 or its natural gas capture requirement for the previous year if the APD is submitted in 2023 or after shall also include the following information in the natural gas management plan:

(a) the anticipated volume of produced natural gas in units of MCFD for the first year of production;
(b) the existing natural gas gathering system the operator has contracted or anticipates contracting with to gather the natural gas, including:
(i) the name of the natural gas gathering system operator;
(ii) the name and location of the natural gas gathering system;
(iii) a map of the well location and the anticipated pipeline route connecting the production operations to the existing or planned interconnect of the natural gas gathering system.; and
(iv) the maximum daily capacity of the segment or portion of the natural gas gathering system to which the well will be connected; and
(c) the operator's plans for connecting the well to the natural gas gathering system, including:
(i) the anticipated date on which the natural gas gathering system will be available to gather the natural gas produced from the well;
(ii) whether the natural gas gathering system has or will have capacity to gather the anticipated natural gas production volume from the well prior to the date of first production; and
(iii) whether the operator anticipates the operator's existing well(s) connected to the same segment or portion of the natural gas gathering system, referenced in Item (iv) of Subparagraph (b) of Paragraph (2) of Subsection D of 19.15.27.9 NMAC will continue to be able to meet anticipated increases in line pressure caused by the well and the operator's plan to manage production in response to the increased line pressure.

(3) The operator may assert confidentiality for information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC pursuant to Section 71-2-8 NMSA 1978.

(4) The operator shall certify that it has determined based on the available information at the time of submitting the natural gas management plan either:

(a) it will be able to connect the well to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the volume of natural gas the operator anticipates the well will produce commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

(b) it will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the volume of natural gas the operator anticipates the well will produce commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

(5) If the operator determines it will not be able to connect a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced on the date of first production from the well, the operator shall either shut-in the well until the operator submits the certification required by Paragraph (4) of Subsection D of 19.15.27.7 NMAC or submit a venting and flaring plan to the division that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;

- (h) fuel cell production; and
 - (i) other alternative beneficial uses approved by the division.
- (6) If, at any time after the operator submits the natural gas management plan and before the well is spud:
 - (a) the operator becomes aware that the natural gas gathering system it planned to connect the well to has become unavailable or will not have capacity to transport one hundred percent of the production from the well, no later than 20 days after becoming aware of such information, the operator shall submit for the division's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; and
 - (b) the operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, the operator shall submit for the division's approval a new or revised natural gas management plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each plan until the operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- (7) The division may deny the APD or conditionally approve the APD if the operator does not
 - (a) make a certification,
 - (b) fails to submit an adequate venting and flaring plan, which includes alternative beneficial uses for the anticipated volume of natural gas produced; or
 - (c) if the division determines that the operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

[19.15.27.9 NMAC – N, xx/xx/xxxx]

History of 19.15.27 NMAC: [RESERVED]