

This draft has taken into consideration all comments on the 10/28/2019 Draft.

02/14/2020 REVISIONS TO 10/8/2019 DRAFT OIL AND GAS REGULATIONS

NEW O&G Exploration and Production

Preexisting O&G Exploration and

New and Preexisting O&G Exploration and

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10.12.1 GENERAL PROVISIONS

A. Title and Citation

These Regulations are entitled and may be cited as the "Regulations for Oil and Gas Operations."

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B. Purpose

The purpose of these Regulations is to protect public health, safety, welfare and the environment by using the Town's police power to:

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1. Regulate the surface impacts of oil and gas operations in a reasonable manner to address matters specified in C.R.S. § 29-20-104(1)(h) and to protect and minimize adverse impacts to public health, safety, welfare, and the environment.
2. Implement such requirements that are necessary and reasonable to avoid adverse impacts from Oil and Gas Operations and to minimize and mitigate the extent and severity of those impacts that cannot be avoided.

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C. Authority

This Section is adopted pursuant to C.R.S. §§ 29-20-101 et seq, 31-15-401, and 34-60-101 et seq.

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D. Oil and Gas Permit or Seismic Activity Notice Required

1. No person shall engage in, cause, allow, or conduct any Oil and Gas Operation or substantially modify an existing Operation prior to obtaining an Oil and Gas Permit following notice and public hearing under these Regulations unless the Operation falls within one of the exemptions in Section 10.12.1.F.
2. No person shall engage in seismic surveying and testing activities within the municipal boundaries prior to obtaining filing an Seismic Activity Notice and obtaining an order pursuant to Section 10.12.3 of these Regulations.
3. No person shall make a minor modification to existing Oil and Gas Operations within the municipal boundaries prior to filing an Activity Notice and obtaining an order pursuant to Section 10.12.3 of these Regulations.

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E. Applicability

1. Oil and Gas Operations existing at the effective date of these Regulations are subject to the requirements in Section 10.12.5 of these Regulations.
2. New or substantial modifications to Oil and Gas Operations within the Town municipal boundaries are subject to the Permit requirements of these Regulations.
3. If any provisions of these Regulations conflicts with any other applicable provision of the UDC, these Regulations shall control.
4. Oil and Gas Permits issued pursuant to these Regulations shall encompass within its authorization the right of the Operator, its agents, employees, subcontractors, independent contractors, or any other person to perform that work reasonably necessary to conduct the activities authorized by the Permit, subject to all other applicable Town regulations and requirements.
5. The issuance of a final decision on a Permit under these Regulations shall satisfy the requirement of Section 34-60-106(f)(1)(A) of the Colorado Oil and Gas Conservation Act.
6. A Permit issued under these Regulations shall expire three (3) years from the date of its approval if the COGCC has not issued final approvals to drill for the Oil and Gas Operation covered by the Permit.

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F. Exemption from these Regulations

1. Operator Agreement

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An Operator Agreement with terms and conditions at least as stringent as these Regulations approved by the Town Board of Trustees may, by its terms, exempt the proposed Oil and Gas Operation from these Regulations.

2. Continuation of Existing Operations

Oil and Gas Operations that are being conducted pursuant to approved permits as of the effective date of these Regulations or that are located within territory which thereafter is annexed to the Town may continue operating without the issuance of an Oil and Gas Permit under these Regulations, but shall comply with the requirements of Section 10.12.6 of these Regulations.

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G. Severability

If any section, clause, provision, or portion of these Regulations should be found to be unconstitutional or otherwise invalid by a court of competent jurisdiction, the remainder of these Regulations shall not be affected thereby and is hereby declared to be necessary for the public health, safety and welfare.

H. Definitions

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Ambient Noise Level

The all-encompassing noise level associated with a given environment, being a composite of sounds from all sources at the location, constituting the normal and existing level of environmental noise at a given location.

Building Unit

Building or structure designed for use as a place of residency by a person, a family, or families. The term includes manufactured, mobile, and modular homes, except to the extent that any such manufactured, mobile, or modular home is intended for temporary occupancy or for business purposes.

CDPHE

Colorado Department of Public Health and Environment.

Closed Loop Drilling Process or System

A closed loop mud drilling system typically consists of steel tanks for mud mixing and storage and the use of solids removal equipment which normally includes some combination of shale shakers, mud cleaners and centrifuges sitting on top of the mud tanks. This equipment separates drill cutting solids from the mud stream coming out of the wellbore while retaining the water or fluid portion to be reused to continue drilling the well bore. The solids are placed in containment, either a shallow lined pit or an above ground container, provided on location. The system differs from conventional drilling where a reserve pit is used to allow gravitational settling of the solids from the mud which can then be reused. A Closed Loop Drilling System does not include use of a Conventional Reserve Drilling Pit.

COGCC

Colorado Oil and Gas Conservation Commission.

Completion

(1) An oil well shall be considered completed when the first new oil is produced through wellhead equipment into lease tanks from the ultimate producing interval after the production string has been run.

(2) A gas well shall be considered completed when the well is capable of producing

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gas

through wellhead equipment from the ultimate producing zone after the production string has been run.

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(3) A dry hole shall be considered completed when all provisions of plugging are complied with as set out in these rules.

(4) Any well not previously defined as an oil or gas well, shall be considered completed ninety (90) days after reaching total depth.

(5) If approved by COGCC, a well that requires extensive testing shall be considered completed when the drilling rig is released or six months after reaching total depth, whichever is later.

Decibel (dB)

A unit for measuring the intensity of a sound/noise and is equal to ten times the logarithm to the base ten of the ratio of the measured sound pressure squared to a reference pressure which is 20 micropascals.

Degradation

Lowering in grade or desirability; lessening in quality. The act or process of degrading.

Director

Community Development Director or the Director's representative.

Expansive Soils and Rocks

Any mineral, clay, rock or other type of geologic deposit having the property of absorbing water with an accompanying swelling to several times their original volume.

Exploration and Production Waste

Those wastes associated with Oil and Gas Operations to locate or remove oil or gas from the ground or to remove impurities from such substances and which are uniquely associated with and intrinsic to oil and gas exploration, development or production activities that are exempt from regulation under the Resource Conservation and Recovery Act (RCRA).

Flowlines

A segment of pipe transferring oil, gas, or condensate between a wellhead and processing equipment to the load point or point of delivery to a U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration or Colorado Public Utilities Commission regulated gathering line or a segment of pipe transferring produced water between a wellhead and the point of disposal, discharge, or loading. This definition of flowline does not include a gathering line. The different types of flowlines are:

1. **Wellhead Line** means a flowline that transfers well production fluids from an oil or gas well to process equipment (e.g., separator, production separator, tank, heater treater), not including pre-conditioning equipment such as sand traps and line heaters, which do not materially reduce line pressure.

2. **Production Piping** means a segment of pipe that transfers well production fluids from a wellhead line or production equipment to a gathering line or storage vessel and includes the following:

3. **Production Line** means a flowline connecting a separator to a meter, LACT, or gathering line.

4. **Dump Line** means a flowline that transfers produced water, crude oil, or condensate to a storage tank, pit, or process vessel and operates at or near atmospheric pressure at the

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flowline's outlet;

5. **Manifold Piping** means a flowline that transfers fluids into a piece of production facility equipment from lines that have been joined together to commingle fluids; and

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6. **Process Piping** means all other piping that is integral to oil and gas exploration and production related to an individual piece or a set of production facility equipment pieces.

7. **Off-Location Flowline** means a flowline transferring produced fluids (crude oil, natural gas, condensate, or produced water) from an oil and gas location to a production facility, injection facility, pit, or discharge point that is not on the same oil and gas location. This definition also includes flowlines connecting to gas compressors or gas plants.

Gathering Line

A pipeline and equipment that transports gas from a production facility (ordinarily commencing downstream of the final production separator at the inlet flange of the custody transfer meter) to a natural gas processing plant or transmission line or main. The term "gathering line" includes valves, metering equipment, communication equipment, cathodic protection facilities, and pig launchers and receivers, but does not include dehydrators, treaters, tanks, separators, or compressors located downstream of the final production facilities and upstream of the natural gas processing plants, transmission lines, or main lines.

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Geologic Hazard Area

An area which contains or is directly affected by a geologic hazard.

Geologic Hazards

A geologic phenomenon which is adverse to past, current, or foreseeable construction or land and which constitutes a hazard to public health and safety or property if not avoided. The term includes but is not limited to:

- a. Landslides, rock falls, mudflows, and unstable or potentially unstable slopes
- b. Seismic effects
- c. Radioactivity
- d. Areas of ground subsidence
- e. Expansive rocks or soils

Ground Subsidence

A process characterized by the downward displacement of surface material caused by natural phenomena such as removal of underground fluids, natural consolidation, or dissolution of underground minerals or by man-made phenomena such as underground mining.

Groundwater

Subsurface waters in a zone of saturation.

Hydraulic Fracturing or Hydraulic Fracturing Treatment

All stages of the treatment of a well by the application of hydraulic fracturing fluid under pressure that are expressly designed to initiate or propagate fractures in a target geologic formation to enhance production of oil and natural gas.

Hydraulic Fracturing Fluid

The fluid, including the applicable base fluid and all hydraulic fracturing additives, used to perform a hydraulic fracturing treatment.

LACT ("Lease Automated Custody Transfer")

The transfer of produced crude oil or condensate, after processing or treating in the producing operations, from storage vessels or automated transfer facilities to pipelines or any other form of transportation.

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Linear Feature

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A road, gathering line, or pipeline that is necessary to cross a water body or connect or access a well or gathering line. A linear feature is not considered necessary simply because it is the most proximate or least expensive method for crossing a water body or connecting or accessing a well or gathering line.

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LGD (Local Government Designee)

The office designated to receive, on behalf of the local government, copies of all documents required to be filed with the local governmental designee pursuant to COGCC Rules.

Mitigation

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The following actions, in order of preference:

1. Avoiding adverse impacts: Avoiding an adverse impact by not taking a certain action or parts of an action; or
2. Minimizing adverse impacts: Minimizing adverse impacts to protect public health, safety, and welfare and the environment, and mitigating the extent and severity of those impacts that cannot be avoided; or
3. Rectifying impacts: Repairing, rehabilitating, or restoring the impact area, facility or service; or
4. Reducing or eliminating impacts: Reducing or eliminating the impact over time by preservation and maintenance operations; and
5. Other provisions for addressing impacts: replacing or providing equivalent biological, social, environmental and physical conditions, or a combination thereof.

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Modification

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1. Substantial modification. The addition of new wells, or any changes that significantly alter the nature, character or extent of land use impacts of the existing Operation, or changes that will result in an increase in hydrocarbon emissions. Re-fracking of an existing well is a substantial modification.
2. Minor modification. Any change to the existing operation that is not substantial.

Oil and Gas Operations

Exploration for oil or gas, including but not limited to conventional oil and gas and coalbed methane gas; the siting, drilling, re-drilling, deepening, completion, recompletion, reworking, fracturing, refracturing, closure or abandonment, shutting-in oil or gas wells and returning wells to production; pumping stations; production facilities and operations including the installation of flow lines and gathering lines; accessory equipment; construction site preparation, reclamation and related activities associated with the development of oil and gas resources, including their impacts on or construction of access roads and easements, and substantial modification to existing operations.

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Operator Agreement

An agreement between the Town and an Operator describing how proposed Oil and Gas Operations are to be conducted within the municipal boundaries.

Operation(s)

Oil and Gas Operation(s).

Operator

The individual, company, trust, or foundation responsible for the exploration, development, and production of an oil or gas well or lease. Generally, it is the oil company by whom the drilling contractor

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is engaged.

Permit

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Town of Erie Oil and Gas Permit issued pursuant to the provisions of this Chapter 12.

Pipelines

Flowlines and gathering lines for oil and gas wells.

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Pit

Any natural or man-made depression in the ground used for oil or gas exploration or production purposes. A pit does not include steel, fiberglass, concrete or other similar vessels which do not release their contents to surrounding soils.

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Pitless

Pitless with respect to drilling means there is no pit regardless of size or function. This includes conventional reserve drilling pits and drilling cutting pits, but does not include flare pits which may be utilized to contain necessary flaring during the drilling, completion, or up-set conditions

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Production Facilities

All storage, separation, treating, dehydration, artificial lift, power supply, compression, pumping, metering, monitoring, flowline, and other equipment directly associated with oil wells, gas wells, or injection wells.

Protected Use

A residence; occupied commercial or institutional building or school; or public park, fields or outside activity areas.

Regulation(s)

The Town of Erie Oil and Gas Regulations set forth in Chapter 12 of the UDC.

Reference Area

An area either (1) on a portion of the site that will not be disturbed by oil and gas operations, if that is the desired final reclamation; or (2) another location that is undisturbed by oil and gas operations and proximate and similar to a proposed oil and gas location in terms of vegetative potential and management, owned by a person who agrees to allow periodic access to it for the purpose of providing baseline information for reclamation standards, and intended to reflect the desired final reclamation.

Seismic Effects

Direct and indirect effects caused by a natural earthquake or a man-made phenomenon including but not limited to exploration and test drilling.

Shut-In Well

A well which is capable of production or injection by opening valves, activating existing equipment or supplying a power source.

Significant

Noteworthy.

Significantly Degrade

To lower in grade or desirability to a significant as opposed to trifling degree.

Spill

The unauthorized, accidental or sudden discharge of chemicals, oil, petroleum product, exploration and production waste, or other hazardous substances.

Subsurface Facility

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Flowlines and all other subsurface facilities of Oil and Gas Operations.

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Temporarily Abandoned Well

A well that has all downhole completed intervals isolated with a plug set above the highest perforation such that the well cannot produce without removing a plug or a well which is incapable of production or injection without the addition of one or more pieces of wellhead or other equipment, including valves, tubing, rods, pumps, heater-treaters, separators, dehydrators, compressors, piping or tanks.

UDC

Town of Erie Unified Development Code.

VOC Emissions

Volatile organic compounds in oil and gas operations that have the potential to be released into the atmosphere and/or ground.

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Water Body

Any surface waters which are contained in or flow in or through the Town, including: Coal Creek, Boulder Creek, Erie Lake, Erie Reuse Reservoir, Thomas Reservoir, Prince Lake #2, and any irrigation ditches.

Water Source

Water wells that are registered with Colorado Division of Water Resources, including household, domestic, livestock, irrigation, municipal/public, and commercial wells, permitted or adjudicated springs, or monitoring wells installed for the purpose of complying with groundwater baseline sampling and monitoring requirements under COGCC Rules 318A.e.(4), 608, or 609.

Well (Oil and Gas)

An oil or gas well, a hole drilled for the purpose of producing oil or gas, a well into which fluids are injected, a stratigraphic well, a gas storage well, or a well used for the purpose of monitoring or observing a reservoir.

Wildlife Habitat

A natural or man-made environment that contains the elements of food, shelter, water, and space in a combination and quantity necessary to sustain one or more wildlife or plant species at stable population levels in historically-used habitats. Sensitive wildlife habitat areas include, but are not limited to, nesting, brood rearing areas, rookeries, leas, migration corridors, calving and fawning grounds for big game.

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10.12.2 PERMIT APPLICATION PROCESS FOR NEW OR MODIFIED OIL AND GAS OPERATIONS

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A. Compliance with Zoning - Rezoning Application

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No Oil and Gas Permit application will be scheduled for a hearing will be finally approved under these Regulations unless the property where the Operation will be located is zoned as Heavy Industrial (HI) under Section 10.7.5 of the UDC. Where rezoning is required, the Town will work with the Applicant to coordinate public notices and hearings for rezoning with the requirements of these Regulations.

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B. Pre-Application Conference

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1. Pre-Application Conference

Prior to submitting an application for an oil and gas permit, an applicant shall meet with the Director and the LGD to discuss the proposed Oil and Gas Operation. The purpose of the pre-application conference includes, without limitation:

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- a. To discuss the location and nature of the proposed Oil and Gas Operations;
- b. To explain the application submittal requirements, the nature of materials that will be responsive to those requirements, and waivers of any materials that would not be necessary in determining whether the application complies with Town requirements;

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- c. To discuss state terms and conditions imposed on the proposed Oil and Gas Operation;
- d. To identify site-specific concerns and issues that bear on the proposed Oil and Gas Operation;
- e. To discuss projected impacts and potential mitigation;
- f. To discuss the Town Oil and Gas Operations Standards that must be satisfied for Permit approval.

2. Pre-Application Materials

At or before the pre-application conference, the applicant shall provide the Director with information that is sufficient for determining the location and nature of the proposed Oil and Gas Operation, the degree of impacts associated with the Operation, and mitigation proposed to offset such impacts.

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C. Permit Application Submittal

The applicant shall submit the Permit application materials to the Director. The Permit application materials are set forth in Section 10.12.2.E.

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D. Permit Application Fee

The applicant is responsible for all costs of reviewing and processing the Permit application.

1. Fee Requirement

The Permit application shall be accompanied by the application fees set forth in Section 2-10-5 of the Municipal Code.

2. Payment of Additional Costs

Additional costs for reviewing and processing the Permit application include but are not limited to the costs of legal, consultant, and referral agency review of the Permit application, the pre-application conference, completeness determination, and all hearings and meetings on the Permit application. Such costs are in addition to the application fees paid pursuant to D.1 above and shall be billed to the applicant. All additional costs must be paid in full prior to final action by the Board of Trustees on the Permit application.

E. Permit Application Materials for Oil and Gas Operations

The applicant shall submit the application materials to the Community Development Department. The Director, in consultation with the LGD, may waive any part of the Permit application material requirements when the information would not be relevant to determining whether the proposed Oil and Gas Operation complies with the Oil and Gas Operations standards in Section 10.12.4.

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1. Application Form

Completed Land Use application form including the Operator's name and address and, if a type of entity, the name and address of the registered agent of the Operator; any other person that the Operator designates to receive notice, and a person designated by the Operator to serve as an on-site contact.

2. Financial Qualifications and Technical Expertise

Documentation of the applicant's financial qualifications and technical expertise and capability to construct and operate the proposed Oil and Gas Operation in compliance with all conditions of approval.

3. Insurance

Evidence of liability insurance covering both the Operator and the Town of Erie in the amount of \$2 million.

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4. Summary of Proposed Oil and Gas Operation

Summary of proposed Oil and Gas Operation, including: a list of all proposed oil and gas facilities to be installed and estimated timeline; hours of operation; number of employees on site on a daily basis; types of vehicles and equipment.

5. Topographic Map

a. Location of Proposed Oil and Gas Operation

The location of the proposed Oil and Gas Operation including well pads, tanks, roads, pipelines and gathering systems, and related features on a United States Geological Survey quadrangle map or on a recorded plat if the proposed Oil and Gas Operation is within an approved subdivision, with the location highlighted so that it is easy to see.

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b. Topography

Existing and proposed topography at intervals established by the Director as necessary to portray the direction and slope of the area affected by the proposed Oil and Gas Operation.

c. Transportation and Roads

All public and private roads that traverse and/or provide access to the proposed Oil and Gas Operation.

d. Easements

Easements recorded or historically used that provide access to or across, or other use of, the property.

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e. Municipal and Subdivision Boundaries

Municipal or subdivision boundaries within one mile of the well pad, tanks, gathering lines, storage areas or any other ancillary feature of the proposed Oil and Gas Operation.

f. Other Operations

Location of other Oil and Gas Operations within one mile of the site.

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g. Distances Between Well or Surface Equipment and Nearest Building Unit

Shortest distance between any proposed well or surface production equipment on the well pad and the nearest exterior wall of an existing Building Unit.

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6. Current Aerial Photo

Current aerial photo that shows the location of the proposed Oil and Gas Operation and the shortest distance between any proposed well or surface production equipment on the well pad and the nearest exterior wall of an existing Building Unit, displayed at the same scale as the topographic map to facilitate use as an overlay.

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7. Site Preparation Plan

Site plan for site preparation, mobilization, and demobilization.

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8. Property Rights, Permits and Other Approvals

a. Description and documentation of property rights, easements, and rights-of-way agreements that are necessary for or that will be affected by the proposed development.

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b. List of all federal, state, and county permits and approvals that have been or will be required for the proposed development.

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c. Description of all mitigation and financial security required by federal, state, and local authorities; and copies of any draft or final environmental assessments or impact statements prepared for the proposed development.

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9. Reports/Studies/Plans

The following reports, studies and plans shall be prepared to adequately portray the physical characteristics of the property.

a. Community Outreach Plan

A plan that describes how the Operator will conduct neighborhood meeting(s) and use other techniques to provide the public with information and listen to concerns about the Oil and Gas Operation.

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b. Cumulative Impact Analysis.

Documentation of the existing and approved Oil and Gas Operations within the Town of Erie; a description of the adverse impacts to public health, safety and the environment from the existing and approved Oil and Gas Operations; and an analysis of whether the proposed Oil and Gas Operation will contribute to these adverse impacts. Where the proposed Oil and Gas Operation will contribute to existing impacts, a cumulative impact mitigation plan is required.

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c. Alternative Site Analysis

An analysis of alternative sites from which the minerals can be accessed that includes for each site:

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- i. Location;
- ii. Zoning;
- iii. Natural and manmade features;
- iv. Water source;
- v. Distance of proposed pad to residences, occupied buildings, parks and open space; water bodies; floodplains; and roadways.
- vi. Justification of a preferred alternative site and/or reason why a site is not proposed as a viable alternative.
- vii. Materials submitted to the COGCC to satisfy the alternative location analysis requirement.

d. Geologic and Natural Hazards Assessment and Mitigation Plan

i. Geologic and Natural Hazards Report

A report detailing the natural and geological characteristics on-site, and within one (1) mile of the site, prepared by a ~~registered engineer or geologist~~ registered engineer or geotechnical consultant. The report shall include a geotechnical assessment of all geologic hazards that have the potential to affect the Oil and Gas Operation and which may be de-stabilized or exacerbated by the Oil and Gas Operation. The geotechnical assessment shall include, without limitation:

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- (A) Determination if mining exists under the site;
- (B) Determination if void space is still present underground;
- (C) Determination if subsidence has taken place (from drill hole data and surface evidence);

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(D) Determination of how the subsidence hazard can affect proposed Oil and Gas Operation and whether the Oil and Gas Operation will exacerbate subsidence.

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(E) Determination of areas where construction or other disturbance should not occur.

(F) Identification of expansive soils or rocks.

ii. Geologic and Natural Hazard Mitigation Plan.

A plan for mitigating impacts to the proposed Oil and Gas Operation from geologic and natural hazards and impacts of the proposed Oil and Gas Operation on geologic and natural hazards. The plan shall demonstrate compliance with the standards in Section 10.12.5

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e. Air Quality Modeling, Monitoring and Mitigation

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i. Air Quality Modeling Plan

A plan for modeling to be conducted by a third-party consultant approved by the Town that provides for facility emissions inventories and air quality impact studies for drilling, completions and operations based upon proposed equipment use and operational phases, and any emissions reductions associated with plugging and abandonment

ii. Air Quality Monitoring Plan

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A monitoring plan that provides for:

(A) Pre-construction baseline ambient air quality testing, completed by a consultant approved by the Town for 15-90 days, but no more than 90 days prior to construction, for areas located within 500 feet of the well sites if approval from surrounding surface owners can be obtained.

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(B) Air quality monitoring program conducted by a consultant mutually agreed to by both the Operator and the Town and paid for by Operator. The program will require monitoring for all potential emissions, including but not limited to, methane, VOCs, Hazardous Air Pollutants (HAPs), Oxides of Nitrogen (NOx), Particulate Matter (PM), Fine Particulate Matter (PM 2.5), and Carbon Monoxide (CO) and methane (CH4).

(C) Additional monitoring as needed to respond to emergency events such as spills, process upsets, or accidental releases. Operator will provide access to the well sites to the Town's third-party inspector as needed to allow air sampling to occur.

~~(D) Additional monitoring as needed to respond to emergency events such as spills, process upsets, or accidental releases. Operator will provide access to the well sites to the Town's third-party inspector as needed to allow air sampling to occur.~~

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iii. Air Quality Mitigation Plan

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A plan that demonstrates compliance with the Oil and Gas Operation standards in Section 10.12.5 and that includes:

(A) Compliance with EPA, CDPHE and COGCC standards for emissions and odors. If these standards become more stringent in the future, the Operator will update its air quality mitigation plan to

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comply with the more stringent standards.

(B) Compliance with 2017-2019 CDC Agency for Toxic Substances and Disease Registry and US EPA Integrated Risk Information System ambient air quality guidelines. If these guidelines become more stringent in the future with more restrictive guidelines for benzene, toluene, ethylbenzene and xylene (BTEX), and other air toxins, the Operator will update its air quality mitigation plan to comply with the revised guidelines.

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iv. Leak Detection and Repair Program

A leak detection and repair program using modern leak detection technologies for equipment used in the Operation that demonstrates compliance with the requirements of the Oil and Gas Operation standards in 10.12.3. The program shall provide for:

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(A) A minimum of monthly inspections with more frequent inspections based on the design and size of the facility. Notice provided to the LGD five (5) business days prior to an LDAR inspection of facilities to give the Town the opportunity to observe the inspection.

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(B) Detailed recordkeeping of inspections for leaking components.

(C) If an infrared (IR) camera is used, retention of an infrared image or video of all leaking components before and after repair with records maintained for two years and available to the Town upon request.

(D) Immediately reporting to the LGD any leaks discovered by the Operator, including any leaks that are reported to Operator by a member of the public. Operator shall repair leaks within forty-eight-hours. If the Town determines that the leak presents an imminent threat to persons or property, the Operator may not operate the affected component, equipment or flowline segment until the Operator has corrected the problem and the Town agrees that the affected component, equipment or flowline segment no longer poses a hazard to persons or property. In the event of leaks that the Town believes do not pose an immediate hazard to persons or property, if more than forty-eight-hours repair time is needed after a leak is discovered, Operator shall contact the LGD and provide an explanation of why more time is required.

(E) Continuous monitoring to detect leaks or measure hydrocarbon emissions and to monitor meteorological data. Any continuous monitoring system shall be able to alert the Operator of increases in air contaminant concentrations.

(F) Monthly LDAR report provided to LGD, organized by facility detailing the inspection results, any associated repairs, and any outstanding leaks. Operator will also provide a copy of all reports submitted to the AQCC, including monthly downtime reports and semi-annual control equipment status reports for production facilities located within Town limits. The Town will make this information available on its website, or may provide a link for such information from Town's website to Operator's website.

v. Odor Management Plan

A plan to minimize and mitigate the emission of detectable odors by the Oil and Gas Operation and to ensure that the Operation will not create a public nuisance as set forth in Section 5-1-6.H of the Municipal Code. The plan shall demonstrate compliance with the Oil and Gas standards in Section

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10.12.4 and provide for a timely response to odor complaints from the community and for identifying and implementing additional odor control measures necessary to control odors emanating from the Operation.

f. Electrification Plan

A plan identifying all sources of electricity that will be supplied and used during all phases of development including drilling, completions, and operations.

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g. Dust Suppression Plan

A plan that demonstrates compliance with the requirements for dust suppression in 10.12.5.J.

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h. Water Quality Impact Assessment, Monitoring and Mitigation Plan

An assessment and AA plan that includes:

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i. Water Quality Impact Assessment

An assessment of the impacts to water quality including the following considerations:

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(A) Changes to existing water quality including patterns of water circulation, temperature, conditions of the substrate, extent and persistence of suspended particulates and clarity, odor, color or taste of water.

(B) Applicable narrative and numeric water quality standards.

(C) Changes in point and nonpoint source pollution loads.

(D) Increase in erosion.

(E) Changes in sediment loading to waterbodies.

(F) Changes in stream channel or shoreline stability.

(G) Changes in stormwater runoff flows.

(H) Changes in trophic status or in eutrophication rates in lakes and reservoirs.

(I) Changes in the capacity or functioning of streams, lakes, or reservoirs.

(J) Changes in flushing flows; and

(K) Changes in dilution rates of mine waste, agricultural runoff, and other unregulated sources of pollutants.

(L) Identification of All Surface and Subsurface Water Bodies. An inventory and location of all water bodies, as well as domestic and commercial water wells within one mile of the proposed Oil and Gas Operation.

(M) Identification of Intakes. Identification of intake(s) for public drinking water supply.

ii. Water Quality Monitoring and Mitigation Plan

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For surface and groundwater, a plan that establishes a baseline and a process for monitoring changes to water quality and the aquatic environment to demonstrate the effectiveness of mitigation. The plan shall demonstrate compliance with the Oil and Gas Operation standards in Section 10.12.5 and include:

(A) Key stream segments, other water bodies, and groundwater to be monitored.

(B) Locations for and frequency of sampling and monitoring to establish baseline of existing conditions prior to the proposed Oil and Gas

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Operation including existing water quality, aquatic life and macro-invertebrates, and groundwater data.

(C) Key indicators of water quality and stream health, and threshold levels that will be monitored to detect changes in water quality and health of the aquatic environment.

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(D) Locations for and frequency of sampling and monitoring for key indicators of water quality and stream health, including but not limited to constituents regulated by the Colorado Water Quality Control Commission, and constituents associated with the proposed Oil and Gas Operation.

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(E) Locations for and frequency of sampling and monitoring to measure effectiveness of water quality mitigation during the life of the proposed Oil and Gas Operation.

(F) Mitigation steps that will be implemented to avoid degradation of water bodies if monitoring of key indicators reveals degradation.

i. Stormwater Management Plan

A site-specific stormwater plan to minimize impacts to surface waters from erosion, sediment, and other sources of nonpoint pollution and that demonstrates compliance with the Oil and Gas Operation standards in Section 10.12.4. The stormwater management plan required by CDPHE may be provided to establish compliance with this provision.

j. Water Supply Plan

A plan prepared by a certified professional engineer that demonstrates compliance with the applicable Oil and Gas Operation standards in Section 10.12.4 and includes:

- i. Description of the physical source of the water that the Operator proposes to use to serve each phase of the Operation
- ii. List of all available physical sources of water other than Erie municipal water for the Operation, and if multiple sources are available, analysis to determine which source is least detrimental to the environment;
- iii. Amount of water needed for each phase of the Operation;
- iv. Proof that the source of water supply is physically and legally available and dependable for each phase of the Operation;
- v. Description of how water will be delivered to the site for each phase of the Operation;
- vi. Description of water efficiency methods; and
- vii. Amount of waste water produced, and disposal plans for waste water.

k. Spill Release Response and Reporting Plan

A plan that demonstrates compliance with the Oil and Gas Operation standards in Section 10.12.4 and includes:

- i. Location of storage areas for equipment, fuel, lubricants, chemicals and waste during both construction and operation of the proposed use.
- ii. Measures, procedures, and protocols for spill prevention, storage and containment.
- iii. An electronic monitoring program to aide in discovery of spills and releases.

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- iv. Measures, procedures, and protocols for clean-up and description of the financial security for these provisions.
- v. Measures, procedures, and protocols for reporting spills and storage to Town, county, state and federal officials in compliance with the Oil and Gas Operation standards in Section 10.12.4.
- vi. Provisions establishing that the Town, or its designee, may undertake prevention, control, countermeasure, containment, and clean-up measures if the permittee fails to comply with its obligations under the *Spill Release and Reporting Plan* and that the permittee will pay all costs incurred by the Town for any such measures.
- vii. Maintenance of material safety data sheets (MSDS).
- viii. Baseline assessment of conditions of the soils within the area covered by the *Spill Release Response and Reporting Plan*.
- ix. Plan for monitoring conditions of the soil for the duration of Oil and Gas Operations and for post-Operation sampling of the soil.

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l. Waste Water and Waste Management Plan

A plan that identifies the amount of waste water produced by the Oil and Gas Operation, and disposal plans for waste water that demonstrates compliance with the Oil and Gas Operation standards in Section 10.12.4.

m. Chemicals and Hydraulic Fracturing Fluids Disposal and Reporting Plan

A plan for disposal and reporting of chemicals and hydraulic fracturing fluids, that includes:

- i. Material safety data sheets (MSDS) for the chemicals used in the proposed Oil and Gas Operation.
- ii. Chemical Abstract Service Registry Numbers for every chemical used in the proposed Oil and Gas Operation, if available, other than those protected as Trade Secrets.
- iii. Provision for reporting to the Town the chemicals, other than those protected as a Trade Secret, that will be stored and used during any hydraulic fracturing event along with the maximum quantity that will be present on-site at any one time.

n. Emergency Response Plan

A plan that addresses events such as explosions, fires, gas or water pipeline leaks or ruptures, leaks from well casings and pits, tank leaks or ruptures, hydrogen sulfide or other toxic gas emissions, transportation of hazardous material and vehicle accidents or spills. The plan must include proof of adequate personnel, supplies, and funding to immediately implement the emergency response plan at all times during construction and operations.

o. Noise

i. Ambient Noise Baseline Survey

An ambient noise survey for each well site at baseline and during drilling, hydraulic fracturing, flowback and operations prepared by a qualified consultant approved by the Town.

ii. Noise Management Plan

A plan detailing how each phase of the Operation will comply with the

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maximum permissible noise levels in Section 10.12.4. The plan shall:

- (A) Identify Oil and Gas Operation sources of noise by phase;
- (B) Document the ambient noise level prior to construction of any wellhead, compressor or compression facility; and
- (C) Detail how noise impacts will be mitigated. In determining noise mitigation, specific site characteristics shall be considered, including but not limited to:
 - (1) Nature and proximity of adjacent development;
 - (2) Seasonal and prevailing weather patterns, including wind directions;
 - (3) Vegetative cover on and adjacent to the site; and
 - (4) Topography.

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p. Lighting Study

A plan that demonstrates compliance with the Oil and Gas Operation standards in Section 10.12.4.

q. Operations Plan

A plan including the method and anticipated schedule for drilling, completion, transporting, production and post-operation, and a description of future Oil and Gas Operations.

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r. Vegetation and Weed Management Plan

A written description of the species, character and density of existing vegetation on the site, a summary of the potential impacts to vegetation as a result of the proposed Oil and Gas Operation, and proposed mitigation to address these impacts. The plan shall include any COGCC required interim and final reclamation procedures.

s. Reclamation Plan

A plan for interim reclamation and revegetation of the site and final reclamation of the site in compliance with the Oil and Gas Operation standards in Section 10.12.4. The plan shall include the locations of any proposed Reference Areas to be used as guides for interim and final reclamation.

t. Grading, Drainage, and Erosion Control Plan

A plan that identifies existing (dashed lines) and proposed (solid lines) contours, at two-foot intervals, and the methods for controlling and minimizing erosion during construction and operational phases of the proposed Oil and Gas Operation.

u. Traffic Management and Access

i. Traffic Impact Study

A study prepared by a certified traffic engineer that includes at a minimum:

(A) Existing Conditions

Description of the baseline condition of road segments to be affected by the Oil and Gas Operation, including the existing physical condition, trips generated by vehicle type on the average and at peak times, and the existing level of service.

(B) Proposed Conditions

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For each phase of the Operation, a description of average and peak time site trip generation and load impact for each affected road segment by vehicle type.

(C) Future Conditions

Description of by vehicle type of the total future traffic projected for the roads that will be affected by the Oil and Gas Operation.

(D) Evaluation

Assessment of impacts to the level of service and physical condition of each affected road segment for each phase of the Operation, need; and

(E) Mitigation

For each phase of the Operation, proposed mitigation, including road improvements and repairs, funding, traffic signals, and other measures to ensure that the physical condition and the level of service for each affected road segment is not degraded during any phase of the Operation.

ii. Traffic Management Plan

A plan describing traffic delays, road closures, frequent turns and stopping, and similar impacts to traffic movement and safety; and measures to mitigate adverse impacts for each phase of the Operation.

iii. Access Road Plan

A plan sufficient to demonstrate compliance with the Oil and Gas Operation standards for access roads in Section 10.12.4.

v. Flowline Management Plan

A plan that includes:

i. Description of how the operator intends to adhere to the integrity management procedures listed in COGCC Rule 1104 c-1

ii. A copy of the leak protection and monitoring plan required by COGCC Rule 1104 g, as applicable.

iii. A map at a scale of 1 inch equals 250 feet (1" = 250') or such scale as required by COGCC showing the location of all existing and proposed flowlines associated with the Oil and Gas Operation. For each existing and proposed flowline the map shall denote its size and the maximum pressure at which it is or will be operated, its depth from the surface and, if existing, whether it was constructed or installed before October 31, 2017 and whether it is in use, abandoned, or shut-in.

iv. Description of the measures planned to minimize land disturbance and impacts to vegetation.

i. A copy of COGCC approved continuous monitoring program providing for pressure data monitoring 24 hours a day 7 days a week and a provision for reporting results to the LGD; or description of COGCC Rule 1104 a pressure testing practices and provision for reporting results to the LGD.

ii. A map at a scale designated by the Town showing the location, including GPS location, of all existing and proposed flowlines and other subsurface facilities associated with the Oil and Gas Operation. For each existing and proposed flowline or other subsurface facility, the map shall denote its size

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and the maximum pressure at which it is or will be operated; its depth from the surface; and, if existing, whether it was constructed or installed before October 31, 2017 and whether it is in use, abandoned, or shut-in.

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iii. Description of the measures planned to minimize land disturbance and impacts to vegetation.

w. Wildlife and Wildlife Habitat Assessment

An assessment of existing wildlife and wildlife habitat, that includes:

- i. Analysis of existing wildlife and wildlife habitat;
- ii. Map indicating the location of habitat in relationship to the Oil and Gas Operation; and
- iii. Description of the impacts and net effect of the Operation on wildlife and wildlife habitat and proposed mitigation.

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x. Cultural, Historical, and Archeological Survey

A survey that includes:

- i. Assessment of cultural, historical and archaeological resources in and around the site of the proposed Oil and Gas Operation, and proposed mitigation measures.
- ii. Approval from the State Historic Preservation Office regarding any historical or cultural resources potentially affected by the Oil and Gas Operation. Operator shall provide a copy of such approval to the Director, in consultation with the surface owner and subject to any confidentiality requirements.

y. Public Services and Facilities Impact Assessment

A description of existing levels, demand for, adequacy of, and the operational costs of public services affected by the proposed Oil and Gas Operation; a description of the increase in demand on those services and a plan for mitigating the impacts to public services and facilities.

z. Additional Information

Additional information that the Director deems is necessary to evaluate whether the application complies with the Oil and Gas Operation standards in Section 10.2.4.

F. Determination of Completeness

The determination of completeness is a determination by the Director that all of the required materials have been submitted and that the documents are responsive to the permit application requirements in Section 10-12-2.F.

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1. Application Is Not Complete

If the Director determines that the application is not complete, the Director shall inform the applicant in writing of the deficiencies and shall take no further action on the application until the deficiencies are remedied. If the applicant fails to correct the deficiencies within thirty (30) calendar days after the notice that the application is incomplete, the application shall be considered withdrawn unless the applicant requests more time to ensure that the materials are as complete as possible.

2. Application Is Complete

If the Director determines that the application is complete, the Director shall date the application and notify the applicant in writing.

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3. Completeness Is Not a Determination of Compliance

A determination that an application is complete shall not constitute a determination that it complies with the Oil and Gas Operation standards in Section 10.2.4.

G. Permit Review and Decision

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1. Referral of Application

a. Technical and Legal Consultants and State, Local and Federal Agencies

The Director may send a copy of the complete application to technical and legal consultants retained by the Town, and any local, state or federal agency that may have expertise or an interest in impacts that may be associated with the proposed Oil and Gas Operation.

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b. Colorado Geological Survey

The Director shall send a copy of the complete application to the Colorado Geological Survey for recommendations if the Oil and Gas Operation is proposed to be located in a designated geologic hazard area.

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c. Comment Period. The comment period for referral agency review shall be thirty (30) calendar days from the date of determination of completeness.

d. Cost of Consultant and Referral Agency Reviews

The applicant shall be responsible for the costs of all consultant and referral agency reviews.

2. Neighborhood Meeting

Neighborhood meeting(s) shall be held in accordance with the approved Community Outreach Plan.

3. Public Hearing and Recommendation by Planning Commission

a. Public notice

i. Published Notice

Not less than fifteen (15) calendar days prior to the date of the public hearing, the Director shall publish a notice of public hearing on the Permit application. The notice shall be published once in a newspaper having general circulation in the area. The notice shall include the information in subsection 3.a.iv, below. The applicant shall be responsible for the cost of publication.

ii. Written Notice of Planning Commission Hearing to Property Owners and Occupants

Not less than fifteen (15) calendar days prior to the date of the public hearing, the Director shall mail written notice of the public hearing to the owners and occupants of property described in subsection 3.a.v, below. The applicant shall provide a stamped and addressed envelope for each party to be notified.

iii. Posted Notice

Fifteen (15) days prior to the public hearing, the applicant shall post a sign at the site of the proposed Oil and Gas Operation giving notice to the general public of the Planning Commission hearing. The Town will provide the signs for posting. The applicant is responsible for filling out the signs, posting the signs, checking on the signs to make sure they remain in place, and to remove the signs within two days after the final decision on the

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Permit

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application. For parcels of land exceeding ten (10) acres in size, two (2) signs shall be posted. Such signs shall be posted on the subject property in a manner and at a location or locations reasonably calculated by the Town to afford the best notice to the public. Prior to the hearing the applicant shall submit to the Director a notarized affidavit on a form provided by the Town, stating that the posting requirements for the hearing notice have been met.

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iv. Notice

The notice of public hearing shall include:

- (A) Date, time, and place of the hearing;
- (B) Description of the property involved in the application by street address or by legal description and nearest cross street;
- (C) Description of the purpose of the hearing and that interested parties can come to the meeting and speak on the matter;
- (D) Information on how to obtain additional information on the proposed Oil and Gas Operation and to comment on the proposed Operation; and
- (E) Contact information for the Operator, including phone number and office hours.

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v. Extent of Notice

The list of property owners to be notified shall include the following persons and shall be compiled by the applicant using the most current record of property owners on file with the County Assessor.

- (A) Owners of record and occupants of property within one (1) mile of the site of the proposed Oil and Gas Operation and any homeowners associations representing owners in the area;
- (B) The LGD of municipalities and counties within one (1) mile of the site of the proposed Oil and Gas Operation;
- (C) The Director of the Colorado Oil and Gas Conservation Commission;
- (D) Additional persons or geographic areas that the Director may designate.

vi. Validity of Notice

The applicant is responsible for the accuracy of the list of property owners and occupants to whom written notice is provided. If the applicant makes reasonable good faith efforts to accomplish the notice responsibilities identified above, then the failure of any property owner or occupant to receive notice shall not affect the validity of the decision.

b. Application Review and Staff Report

i. Director Review and Staff Report

The Director shall prepare a report in consultation with the LGD and other appropriate staff members and consultants, taking into account the application, written comments from the public, issues raised by referral agencies and consultants, terms and conditions imposed by state agencies, probability of compliance with the Oil and Gas Operation standards, and any other available information on the record.

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ii. Distribution of Staff Report

No less than seven (7) calendar days prior to the date of the public hearing, the Director shall submit the staff report to the applicant and to the Planning Commission. A copy of the staff report shall also be available for public review prior to the hearing.

c. Planning Commission Hearing and Recommendations

The Planning Commission shall consider the Oil and Gas Permit application at a public hearing following proper public notice. The role of the Planning Commission is to formulate a recommendation for the Board of Trustees.

i. Recommend Approval of Permit Application

If the proposed Oil and Gas Operation satisfies all the Oil and Gas Operation standards, the Planning Commission may recommend that the Permit application be approved.

ii. Recommend Denial or Conditional Approval of Permit Application

If the proposed Oil and Gas Operation fails to satisfy one or more Oil and Gas Operation standards, the Planning Commission shall recommend that the Permit application be denied; or the Planning Commission may recommend approval with conditions determined necessary for compliance with the Oil and Gas Operation standards.

4. Public Hearing and Decision by Board of Trustees

a. Public Notice

i. Published Notice

Not less than fifteen (15) calendar days prior to the date of the public hearing, the Director shall publish a notice of public hearing on the Permit application. The notice shall be published once in a newspaper having general circulation in the area. The notice shall include the information in subsection 4.a.iv, below. The applicant shall be responsible for the cost of publication.

ii. Written Notice of Board of Trustees' Hearing to Property Owners and Occupants

Not less than fifteen (15) calendar days prior to the date of the public hearing, the Director shall mail written notice of the public hearing to the owners and occupants of property described in subsection 4.a.v., below. The applicant shall provide a stamped and addressed envelope for each party to be notified.

iii. Posted Notice

Fifteen (15) days prior to the public hearing, the applicant shall post a sign at the site of the proposed Oil and Gas Operation giving notice to the general public of the Board of Trustees hearing. The Town will provide the signs for posting. The applicant is responsible for filling out the signs, posting the signs, checking on the signs to make sure they remain in place, and to remove the signs within two days after the final decision on the Permit application. For parcels of land exceeding ten (10) acres in size, two (2) signs shall be posted. Such signs shall be posted on the subject property in a manner and at a location or locations reasonably calculated by the Town to afford the best notice to the public. Prior to the hearing the applicant shall submit to the Director a notarized affidavit on a form provided by the Town, stating that the posting requirements for the hearing notice have been met.

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iv. Notice of Hearing

The notice of public hearing shall include:

- (A) Date, time, and place of the hearing;
- (B) Description of the property involved in the application by street address or by legal description and nearest cross street;
- (C) Description of the purpose of the hearing and that interested parties can come to the meeting and speak on the matter;
- (D) Information on how to obtain additional information on the proposed Oil and Gas Operation and to comment on the proposed Operation; and
- (E) Contact information for the Operator, including phone number and office hours.

v. Extent of Notice

The list of property owners to be notified shall include the following persons and shall be compiled by the applicant using the most current record of property owners on file with the County Assessor.

- (A) Owners of record and occupants of property within one (1) mile of the site of the proposed Oil and Gas Operation and any [homeowners/homeowner's](#) associations representing owners in the area.
- (B) The LGD of municipalities and counties within one (1) mile of the site of the proposed Oil and Gas Operation.
- (C) The Director of the Colorado Oil and Gas Conservation Commission.
- (D) Additional persons or geographic areas that the Director may designate.

vi. Validity of Notice

The applicant is responsible for the accuracy of the list of property owners and occupants to whom written notice is provided. If the applicant makes reasonable good faith efforts to accomplish the notice responsibilities identified above, then the failure of any property owner or occupant to receive notice shall not affect the validity of the decision.

b. Application Review and Staff Report

i. Director Review and Staff Report

The Director, in consultation with the LGD and other staff members and consultants, shall prepare a report taking into account the application, Planning Commission recommendation, review comments, issues raised by referral agencies and consultants, terms and conditions imposed by state agencies, probability of compliance with the Oil and Gas Operation standards, and any other available information on the record.

ii. Distribution of Staff Report

No less than seven (7) calendar days prior to the date of the public hearing, the Director shall submit the staff report to the applicant and to the Board of Trustees. A copy of the staff report shall also be available for public review prior to the hearing.

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c. Permit Decision by Board of Trustees

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The Board of Trustees shall approve, approve with conditions, or deny the Permit application based on all the evidence on the record.

i. Approval of Permit Application

If the proposed Oil and Gas Operation satisfies all the Oil and Gas Operation standards, the Board of Trustees may approve the Permit.

ii. Denial or Conditional Approval of Permit Application

If the proposed Oil and Gas Operation fails to satisfy one or more Oil and Gas Operation standards, the Board of Trustees shall deny the Permit; or the Board of Trustees may approve the Permit with conditions determined to be necessary for compliance with the Oil and Gas Operation standards.

d. Documentation of Trustees Decision. The Board of Trustees decision shall be documented in writing and contain the following:

i. Description of Project

Brief discussion of the proposed Oil and Gas Operation;

ii. Issues

Description of issues raised by the Planning Commission, affected property owners, referral agencies and consultants;

iii. Conditions Imposed by the State

Description of terms, conditions and requirements imposed on proposed Oil and Gas Operation by state agencies;

iv. Impacts and Mitigation

Description of impacts of the proposed Oil and Gas Operation, proposed mitigation, and whether each approval standard has been satisfied; and

v. Conditions of Approval

Conditions of approval, if any, necessary to ensure compliance with approval standards.

vi. Basis for Denial

If the Trustees determine that the permit application must be denied, a statement explaining the standards that the application failed to satisfy.

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10.12.3 — ACTIVITY NOTICE FOR MINOR MODIFICATION TO AN EXISTING OIL AND GAS OPERATION AND SEISMIC SURVEYING AND TESTING

~~An Activity Notice is required prior to (i) making any minor modification to an existing oil and gas operation; and (ii) prior to conducting any seismic surveying or testing.~~

~~A. Activity Notice Materials~~

~~1. Activity Notice Materials for Minor Modification to Existing Oil and Gas Operation, a. The name, address, and telephone number of the Operator.~~

~~b. Narrative description of the existing Operation and the proposed modification, and site plan with sufficient detail to show the extent of the modification proposed.~~

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[E: _____ Name and address of:](#)

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i. Homeowner associations, neighborhood associations and school districts within one (1) mile of the boundaries of the area of the Operation.

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ii. Owners of record and occupants of property within one (1) mile of the boundaries of the area of the Operation.

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iii. The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the Operation.

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2. Activity Notice Materials for Seismic Surveying and Testing.

a. The name, address, and telephone number of the Operator if the Operator is conducting the seismic surveying and testing.

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b. The name, address, and telephone number of the seismic contractor who will be present at and responsible for conducting the seismic surveying and testing activities.

c. The name and address of:

i. Homeowners' associations, neighborhood associations, and school districts within one (1) mile of the boundaries of the area of the activity.

ii. Owners of record and occupants of property within one (1) mile of the boundaries of the area of the activity.

iii. The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the activity.

d. If the surface land comprising the area of proposed activity is owned by a person other than the applicant, the name and address of the owner of record of the surface land and a description of the basis upon which the person proposing activities claims the right to conduct the proposed activities on the area.

e. Seismic Surveying and Testing Plan. A plan that includes:

i. A map of the proposed seismic survey and testing area including surface topography, geology, drainage, surface water, and other physical features; vegetative cover; wildlife habitats and habitats of endangered or threatened species; and recreational, historical and archaeological resources located within the seismic survey and testing area or affected by the activity.

ii. Description of Proposed Seismic Survey and Testing Activity

(1) Narrative description of the proposed seismic survey and testing activity;

(2) Commencement date and duration of surveying and testing.

(3) List of all property owners and occupants within one (1) mile of the seismic testing and surveying area;

(4) List of streets that will be affected;

(5) Description of how the seismic surveying and testing activities will meet the conditions and requirements in Section 10.12.6.B.

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(6) Narrative description of methods to be used for reclamation of the area upon completion of the seismic surveying and testing activities.

B. Activity Notice Review and Decision by LGD. Within five (5) working days after the Activity Notice is deemed complete by the LGD, the LGD shall determine whether the Activity Notice shows that the proposed activity can be conducted in accordance with the requirements of these Regulations.

1. Minor Modification of Existing Oil and Gas Operation.

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a. ~~If the Activity Notice shows that the proposed modification of an existing Oil and Gas Operation does not constitute a substantial modification as defined in Section 10.12.1.H, the LGD shall provide the Operator with a written order approving or approving with conditions the minor modification. Conditions may be imposed as necessary to protect public health, safety, welfare and the environment.~~

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b. ~~If the Activity Notice shows that the proposed modification of an existing Oil and Gas Operation does not qualify as a minor modification, the LGD shall prohibit the proposed modification and require the Operator to submit an application for a Permit under these Regulations.~~

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2. Seismic Surveying and Testing.

a. ~~If the Activity Notice shows that the seismic surveying and testing will be conducted in accordance with the conditions in Section 10.12.6.B, the LGD shall provide the Operator and/or seismic contractor with a written order approving the conduct of the seismic surveying and testing.~~

b. ~~If the Activity Notice shows that the seismic surveying and testing cannot be conducted in accordance with the requirements of Section 10.12.6.B, the LGD shall prohibit the seismic surveying and testing, or the LGD may approve the seismic surveying and testing with conditions that are necessary for it to be conducted in compliance with operational conditions and requirements of Section 10.12.6.B.~~

C. Public Notice

1. Written Notice

~~Not less than fifteen (15) days ahead of the date the activity will begin, the Operator shall deliver the approved Activity Notice and order to the property owners and occupants, and other parties required in subsection C.2 below.~~

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2. Parties to Receive Notice

~~The list of parties to be notified shall include the following and shall be compiled by the Operator using the most current records on file with the County Assessor.~~

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a. ~~Homeowners' associations, neighborhood associations, and school districts within one (1) mile of the boundaries of the area of the Operation or activity.~~

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b. ~~Owners of record and occupants of property within one (1) mile of the boundaries of the area of the Operation or activity.~~

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c. ~~The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the Operation or activity.~~

d. ~~Additional persons or geographic areas that the LGD may designate.~~

3. Validity of Notice

~~The Operator is responsible for the accuracy of the list of property owners and occupants~~

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10.12.43 OIL AND GAS OPERATIONS STANDARDS

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~~and other parties to whom written notice is provided. If the Operator makes reasonable good faith efforts to accomplish the notice responsibilities identified above, then the failure of any property owner or occupant to receive notice shall not affect the validity of the public notice.~~

The following standards are the minimum standards that will apply to all proposed Oil and Gas Operations, and shall be in addition to any ~~additional~~ state or federal standards that may apply. In the event of a conflict between these standards and another applicable standard, the more stringent standard shall apply.

A. Expertise and Financial Capability

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The applicant has the necessary expertise and financial capability to complete and operate the proposed Oil and Gas Development in compliance with the requirements and conditions of these Regulations.

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B. Property Rights and Easements

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The applicant will obtain all property rights and easements necessary for the Oil and Gas Operation prior to site disturbance.

C. Location Standards

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1. The Operation is located within a zone district that allows heavy industrial uses.
2. The Operation is located at the site from which the minerals can be accessed with the least adverse impact to public health, safety, welfare and the environment in compliance with all applicable standards in this Section 10.12.4.
3. Any type of well pad and above-ground production facility shall be located at least 1000 feet from occupied buildings, or a proposed building that has applied for a building permit that requires a certificate of occupancy pursuant to the UDC. Measurement shall be taken from disturbed area of the production facility to the nearest wall or corner of any such buildings. The Town may decide that a different setback is more appropriate based on the Alternative Site Analysis.
4. Any type of well pad and above-ground production facility shall be located at least 2000 feet from the boundary line of platted residential lots or parks, sports fields and playgrounds, or other outside activity areas and any occupied structure. Measurement shall be taken from the edge of the disturbed area to the boundary line. The Town may decide that a different setback is more appropriate based on the Alternative Site Analysis.
5. The Operation shall be at least 500 feet from any surface waterbody.
6. The Operation shall be at least 500 feet from any domestic or commercial water wells or irrigation wells.
7. The Operation is not located within a floodway district as defined in Section 10.2.7.C.4 of the UDC.

D. Minimal Site Disturbance

The Oil and Gas Operation shall be located and constructed in a manner so that there is no unnecessary or excessive site disturbance and that minimizes the amount of cut and fill.

1. Multi-well drill pads and consolidated facilities shall be used to minimize surface disturbance.
2. Pad dimensions shall be the minimum size necessary to accommodate operational needs while minimizing surface disturbance.
3. Structures and surface equipment shall be the minimum size necessary to satisfy present and future operational needs.
4. The Operation shall be located in a manner to minimize impacts on surrounding uses, and achieve compatibility with the natural topography and existing vegetation.

E. Geologic and Natural Hazards

1. The Oil and Gas Operation shall not be subject to risk from natural or geologic hazards.
2. The Oil and Gas Operation shall not initiate or intensify natural or geologic hazards.
3. For Oil and Gas Operations located in an area where geologic and natural hazards occur, the Oil and Gas Operation shall be conducted in compliance with the recommendations of the Colorado Geological Survey.

F. Air Quality

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Oil and Gas Operations shall not degrade air quality and shall prevent adverse impacts to public health, safety and welfare, and the environment. Evidence of compliance with this standard includes the following measures:

1. Minimization of Emissions

To minimize emissions, the Operator shall:

- a. Use closed loop, pitless drilling, completions and production systems without permanent on-site storage tanks for containment and/or recycling of all drilling, completion, flowback and produced fluids.
- b. Use Tier 4 fracturing pumps and Liberty Quiet Fleet or comparable technology and Tier 4 diesel engines.
- c. Utilize pipelines for all transportation of gas and fluids from production facilities whenever available.
 - i. Any Pipeline infrastructure for fresh water shall be constructed and placed into service prior to spudding for delivery of all fresh water to be used during the drilling, completion, production and operations phases.
 - ii. Any Pipeline infrastructure for produced water, natural gas, crude oil and condensate will be constructed and placed into service prior to the start of any fluid flow from any wellbore.
- d. Demonstrate hydrocarbon destruction or control efficiency by using an enclosed combustion device that complies with a design destruction efficiency of 98% or better.
- e. Reduce emissions of the natural gas byproduct associated with oil and gas well production. Emission reduction includes prohibiting uncontrolled venting in compliance with AQCC Regulation 7 Section XII.C.1.
- f. Implement best management practices during liquids unloading (i.e., maintenance activities to remove liquids from existing wells that are inhibiting production), including at least 95% emissions reduction when utilizing combustion and the installation of artificial lift or unloading through the separator where feasible.
- g. Implement "tankless" production techniques.
- h. Obtain electrification from the power grid or from renewable sources for all permanent equipment that can be electrified. All equipment that is not electrically operated shall use quiet design mufflers (also referred to as hospital grade or dual dissipative) or equivalent; or acoustically insulated housing or covers to enclose the motor or engine.
- i. Install, calibrate, operate, and maintain any flare, auto ignition system, recorder, vapor recovery device or other equipment used to meet the hydrocarbon destruction or control efficiency requirement in accordance with the manufacturer's recommendations, instructions, and operating manuals.
- j. Use telemetric control and monitoring systems, including surveillance monitors to detect when pilot lights on control devices are extinguished.
- k. Use zero emission desiccant gas processing dehydrators.
- l. Reduce or eliminate emissions from oil and gas maintenance activities such as pigging or blowdowns.
 - i. If any maintenance activity will involve the intentional venting of gas from a well tank, compressor or flowline, beyond routine pipeline maintenance activity and pigging, the Operator shall provide forty-eight (48) hour advance

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written notice to the LGD of such proposed venting. Such notice shall identify the duration and nature of the venting event, a description as to why venting is necessary, a description of what vapors will likely be vented, what steps will be taken to limit the duration of venting, and what steps the operator proposes to undertake to minimize similar events in the future.

ii. If emergency venting is required, or if accidental venting occurs, Operator shall provide notice to LGD of such event as soon as possible, but in no event longer than twenty-four (24) hours from the time of the event, with the information listed above and with an explanation as to the cause and how the event will be avoided in the future.

m. Participate in Natural Gas STAR program or other voluntary programs to encourage innovation in pollution control at the well pad site.

n. Centralize compression facilities within a well site.

o. Vent exhaust from all stationary engines, motors, chillers and other mechanized equipment up or in a direction away from the closest occupied structures to such equipment.

p. Use a pressure-suitable separator and/or vapor recovery unit (VRU) when appropriate.

q. Construct flowline infrastructure prior to beginning production.

r. Use dry seals on centrifugal compressors.

s. Route emissions from rod-packing and other components on reciprocating compressors to vapor collection systems.

t. Control hydrocarbon emissions of 98% or better for centrifugal compressors and reciprocating compressors.

u. Use emission reduction measures to respond to air quality action day advisories posted by the Colorado Department of Public Health and Environment for the Front Range Area. Emission reduction measures will be implemented for the duration of an Air Quality Action Day advisory and will include:

i. Minimize vehicle and engine idling;

ii. Reduce truck traffic and worker traffic;

iii. Delay vehicle refueling;

iv. Suspend or delay use of fossil fuel powered ancillary equipment; and

v. Postpone construction activities

vi. Within thirty days following the conclusion of each annual air quality action day season, Operator shall submit a report to the LGD that details which measures it implemented during any action day advisories.

v. Establish shutdown protocols, approved by the Town, with notification and inspection provisions to ensure safe shut-down and timely notification to affected neighborhoods.

w. Conduct ongoing maintenance checks of all equipment to minimize the potential for gaseous or liquid leaks. Minimize truck traffic to and from the site.

x. Minimize truck traffic to and from the site.

y. Use desiccant gas processing dehydrators or other zero emitting dehydrators.

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cy. Hydrocarbon control of 98% or better for crude oil, condensate, and produced water tanks with uncontrolled actual emissions of VOCs greater than two TPY VOCs.

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ca. Consolidate product treatment and storage facilities within a well pad site.

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cb. Centralize compression facilities within a well pad site.

cc. Use pressure-suitable separator and vapor recovery unit (VRU) where applicable.

ca. Use EPA Reduced Emission Completions for wells. Daily logs documenting reduced emission completions provided to the LGD upon request.

cb. Use no-bleed continuous and intermittent pneumatic devices. This requirement can be met by replacing natural gas with electricity or instrument air, or routing the discharge emissions to a closed loop-system or process.

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cc. Conduct root cause analysis for any Grade 1 gas leaks.

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cd. Use automated tank gauging.

ce. For Operators with existing Oil and Gas Operations in the Town of Erie, demonstrate that the Operation will not result in any increase of volatile organic compounds (VOCs) from Operator's existing and planned Operations in the Town. Operator may include anticipated reductions from plugging and abandoning existing wells located in Town when modeling total VOCs from existing and future Operations and related activities.

cf. Comply with all OSHA work practice requirements with respect to benzene.

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cg. Construct flowline infrastructure prior to beginning production.

ch. Use other best management practices to control emissions as they become available.

2. Flares and Combustion Devices.

Flaring shall be eliminated other than during emergencies or upset conditions and all flaring shall be reported to the LGD. If flaring is required, all flares, thermal oxidizers, or combustion devices shall be designed and operated as follows:

a. Flaring shall be done with a flare that has a manufacturer specification of 98% destruction removal efficiency or better

b. Flare and/or combustor shall be fired with natural gas.

c. Flare and/or combustor shall be designed and operated in a manner that will ensure no visible emissions during normal operation.

i. No visible emissions of smoke for any period or periods of duration greater than or equal to one minute in any fifteen-minute period during normal operation, pursuant to EPA Method 22.

ii. Visible emissions do not include radiant energy or water vapor.

d. Flare and/or combustor shall be operated with a flame present at all times when emissions may be vented to it

e. All combustion devices shall be equipped with an operating auto-igniter.

f. If using a pilot flame ignition system, the presence of a pilot flame shall be monitored using a thermocouple or other equivalent device to detect the presence of a flame. A pilot flame shall be maintained at all times in the flare's pilot light burner. A telemetry system shall be in place to monitor pilot flame and shall activate a visible and audible alarm in the case that the pilot goes out.

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g. If using an electric arc ignition system, the arcing of the electric arc ignition system shall pulse continually and a device shall be installed and used to continuously monitor the electric arc ignition system.

h. Flare, auto ignition system, recorder, vapor recovery device or other equipment used to meet the hydrocarbon destruction or control efficiency requirement shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manuals.

3. Leak Detection and Repair (LDAR)

a. Operations shall be conducted in conformance with the Leak Detection and Repair Plan.

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b. If the Town determines that the leak presents an immediate hazard to persons or property, the Operator may not operate the affected component, equipment or flowline segment until the Operator has corrected the problem and the Town agrees that the affected component, equipment or flowline segment no longer poses a hazard to persons or property. In the event of leaks that the Town believes do not pose an immediate hazard to persons or property, if more than forty-eight-hours repair time is needed after a leak is discovered, Operator shall contact the LGD and provide an explanation of why more time is required. Continuous monitoring to detect leaks or measure hydrocarbon emissions and monitor meteorological data shall be required. Any continuous monitoring system shall be able to alert the Operator of increases in air contaminant concentrations. Operator shall provide detailed recordkeeping of the inspections for leaking components.

4. Well Completion

For each well completion operation with hydraulic fracturing, the Operator shall control emissions by the following procedures.

a. For the duration of flowback, route the recovered liquids into one or more storage vessels or re-inject the recovered liquids into the well or another well, and route the recovered gas into a gas flowline or collection system, re-inject the recovered gas into the well or another well, use the recovered gas as an onsite fuel source, or use the recovered gas for another useful purpose that a purchased fuel or raw material would serve, with no direct release to the atmosphere.

b. If compliance with paragraph 4.a above is infeasible, the Operator must capture and direct flowback emissions to a completion combustion device equipped with a reliable continuous ignition source over the duration of flowback, except in conditions that may result in a fire hazard or explosion, or where high heat emissions from a completion combustion device may negatively impact waterways or nearby structures. Non-flammable gas may be vented temporarily until flammable gas is encountered where capture or combustion is not feasible.

5. Compliance

a. Operator will submit annual reports to the LGD certifying

(A) Compliance with these air quality requirements and documenting any periods of material non-compliance, including the date and duration of each such deviation and a compliance plan and schedule to achieve compliance, and

(B) Equipment at the well sites continues to operate within its design parameters, and if not, what steps will be taken to modify the equipment to enable the equipment to operate within its design parameters.

b. The annual report shall contain a certification as to the truth, accuracy and completeness of the reports, signed by a responsible corporate official. The Operator

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will also provide the LGD with a copy of any self-reporting submissions that operator provides to the CDPHE due to any incidence of non-compliance with any CDPHE air quality rules or regulations.

G. Odor Management

1. Use of D-822 is prohibited unless its use is required by COGCC. In comments on the Form 2A the LGD shall request that the COGCC only approve mud types that are water base and low odor type fluids.
2. The operator shall notify the LGD no later than 24-hours after receiving an odor complaint.
3. Operator shall conduct drive-by inspections through neighborhoods at various times to hear, smell and see what is going on during each phase of Operations.
4. No emission of odorous gases or other odorous matter shall be permitted in such quantities as to be readily detectable when diluted in the ratio of one volume of odorous air to four volumes of clean air.
5. Any process which may involve the creation or emission of any odors shall be provided with a secondary safeguard system so that control will be maintained if the primary safeguard system should fail.
6. Filtration systems or additives to minimize odors from drilling and fracturing fluids may be used except that operators shall not mask odors by using masking fragrances.
7. Drill cuttings shall be covered to prevent odor while being transported by truck.

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H. Dust Suppression

1. Dust associated with on-site activities and traffic on access roads shall be minimized throughout construction, drilling and operational activities such that there are no visible dust emissions from access roads or the site to the extent practical given wind conditions.
2. Untreated produced water and process fluids will not be used for dust suppression.
3. Operator shall not conduct dust suppression activities within 300 feet of surface water unless the dust suppressant is water.
4. Safety data sheets shall be submitted for any chemical based suppressant.

I. Water Quality

The Oil and Gas Operation shall not cause significant degradation of water quality of affected water bodies and water wells. The Operator shall implement the required Water Quality Monitoring and Mitigation Plan to achieve the standard.

1. Determination of Significant Degradation of Water Quality

Determination of whether the Operation will cause significant degradation to water quality may include, but is not limited to the following considerations:

- a. Applicable narrative and numeric water quality standards.
- b. Changes in point and nonpoint source pollution loads.
- c. Increase in erosion and sediment loads.
- d. Changes in stream channel or shoreline stability.
- e. Changes in stormwater runoff flows.
- f. Changes in quality of ground water.
- g. Certification. The Operator shall submit annual reports to the LGD certifying compliance with water quality standards, documenting any non-compliance, including its date and

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duration. A compliance plan is required for all instances of
non-

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compliance.

2. Water Wells

The Oil and Gas Operation shall not cause water quality or water pressure of any public or private water wells to go below pre-project levels. The Operator shall submit monthly reports to the LGD certifying that the Operation has not caused water quality or pressure of public and private wells to go below pre-project levels, or documenting non-compliance, including the date and duration. A compliance plan is required for all instances of non-compliance.

3. Water Source Sampling and Testing

Using records of the Colorado Division of Water Resources, Operator shall identify and sample all documented water sources located within one-half (1/2) mile of the projected track of the borehole of a proposed well and within one-half (1/2) mile of the radius of the proposed well pad site. All sampling must be conducted by third-party consultant approved of by the Town. The Operator shall provide all water source test results to the LGD and maintain records of such results. Requirements for sampling include:

- a. Collection of initial baseline samples and subsequent monitoring samples from all available water sources within one-half (1/2) mile of the well pad site.
- b. Initial collection and testing of baseline samples from available water sources shall occur within twelve (12) months prior to the commencement of drilling a well, or within twelve (12) months prior to the re-stimulation of an existing well for which no samples were collected and tested during the previous twelve (12) months.
- c. Collection and testing of post-stimulation samples from available water sources within the following time frames:
 - i. One sample within six (6) months after completion;
 - ii. One sample between twelve (12) and eighteen (18) months after completion; and
 - iii. One sample between sixty (60) and seventy-two (72) months after completion.
- d. For multi-well pads, monthly collection and testing during active drilling and completion.
- e. Collection of samples from at least one (1) up-gradient and two (2) down-gradient water sources within a one-half (1/2) mile radius of the well pad site. If no such water sources are available, Operator shall collect samples from additional water sources within a radius of up to one mile from the well pad site until samples from a total of at least one (1) up-gradient and two (2) downgradient water sources are collected. Operator shall give priority to the selection of water sources closest to the well pad site.
- f. Operator may rely on existing groundwater sampling data collected from any water source within the radii described above, provided the data was collected within the twelve (12) months preceding the commencement of drilling the well, the data includes measurement of all of the constituents measured in Table 1, and there has been no significant oil and gas activity within a one-mile radius in the time period between the original sampling and the commencement of drilling the well.
- g. Operator shall make reasonable efforts to obtain the consent of the owner of the water source. If the Operator is unable to locate and obtain permission from the surface owner of the water source, the Operator shall advise the LGD that the applicant could not obtain access to the water source from the surface owner.
- h. Testing for the analytes listed in Table 1, and subsequent testing as necessary or appropriate.

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- i. Use of standard industry procedures in collecting samples, consistent with the COGCC model Sampling and Analysis Plan.
- j. Reporting the location of the water source using a GPS with sub-meter resolution.
- k. Reporting damaged or unsanitary well conditions, adjacent potential pollution sources, odor, water color, sediment, bubbles, and effervescence discovered through field observations.
- l. Providing copies of all test results described above to the LGD, the COGCC, and the water source owners within three (3) months after collecting the samples.
- m. Additional measures to be required if sampling shows water contamination, including:
 - i. If free gas or a dissolved methane concentration level greater than one milligram per liter (mg/l) is detected in a water source, determination of the gas type using gas compositional analysis and stable isotope analysis of the methane (carbon and hydrogen).
 - ii. If the test results indicate thermogenic or a mixture of thermogenic and biogenic gas, an action plan to determine the source of the gas.
 - iii. Immediate notification to the LGD, the COGCC, and the owner of the water source if the methane concentration increases by more than five mg/l between sampling periods, or increases to more than ten mg/l.
 - iv. Immediate notification to the LGD, the COGCC and the owner of the water source if BTEX and/or TPH are detected as a result of testing. Such detections may result in required subsequent sampling for additional analytes.
 - v. Further water source sampling in response to complaints from water source owners.
 - vi. Timely production and distribution of test results, well location, and analytical data in electronic deliverable format to the LGD, the COGCC and the water source owners.
- n. All abandoned well assessments and water source testing shall be conducted by the Operator or if requested by a surface owner, by a qualified independent professional consultant approved by the Town at the Operator's expense.

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GENERAL WATER QUALITY	Alkalinity Conductivity & TDS Ph Dissolved Organic Carbon (or Total Organic Carbon)Bacteria Hydrogen Sulphide
MAJOR IONS	Bromide Chloride Fluoride Magnesium Potassium Sodium Sulfate Nitrate + Nitrite as N (total)

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METALS	Arsenic Barium Boron Chromium Copper Iron Lead Manganese Selenium Strontium
DISSOLVED GASES AND VOLATILE ORGANIC COMPOUNDS	Methane Ethane Propane BTEX as Benzene, Toluene, Ethylbenzene, Xylenes Total Petroleum Hydrocarbons (TPH)
OTHER	Water Level Stable isotopes of water (Oxygen, Hydrogen, Carbon) Phosphorus

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J. Groundwater Baseline Sampling and Monitoring, Greater Wattenberg Area Wells

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Operator shall provide the LGD with copies of the results of tests performed by Operator on Greater Wattenberg Area wells within the Town limits under COGCC Rule 318A.f.

K. Stormwater

1. Operation shall be conducted in conformance with the Stormwater Management Plan.
2. Best Management Practices (BMPs) shall be maintained in effective operating condition and any additional BMPs recommended by a stormwater inspector must be implemented by the Operator as soon as possible.
3. Results of stormwater inspections required by CDPHE-WQCD shall be provided to the LGD.
4. Final stabilization measures must be implemented as soon as construction activities cease.
5. Once the well pad or production facility has reached final stabilization as defined by CDPHE, the well pad or production facility must develop and implement a post construction stormwater program as defined by COGCC Rule 1002.f.

L. Water Supply

1. The water supply is the least detrimental to the environment among the available sources and adequate to meet the needs of the Oil and Gas Operation.
2. The water supply is legally and physically available, dependable, and sustainable. Reuse and recycling will be implemented.
3. The Operation shall not use water from the Town's municipal water supply unless approved by the Board of Trustees.
4. The Operation shall be conducted in conformance with the Water Supply Plan.

M. Spill Release Response and Reporting

The Operator shall demonstrate the ability to control and contain all spills and releases of exploration

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and production waste, including produced fluids, immediately upon discovery in conformance with the Spill Release Response and Reporting Plan.

1. Spills and releases shall be contained, investigated, and cleaned up as soon as possible or immediately in emergency situations.
2. All employees performing spill clean-up shall be qualified in accordance with applicable state and federal requirements.
3. Copies of Form 19 Spill Release Report (both initial and Supplemental Report) and Form 23 Loss of Well Control Report shall be submitted to the LGD at the same time they are submitted to the COGCC, including the topographic map showing location of the spill and any information relating to initial mitigation, site investigation, and remediation that accompany the report.
4. Spills and releases outside of containment which exceed one barrel of Exploration and Production Waste or produced fluids shall be reported to the LGD within 24 hours.
5. Spills and releases of any size which impact or threaten to impact any waters of the state, residences or occupied structures, livestock, or public byways shall be verbally reported to the LGD within twenty-four (24) hours, with a follow-up written notice within 48 hours.
6. Spills and releases of any size which impact or threaten to impact any water supply area shall be verbally reported to the Colorado Environmental Spill Reporting Hotline at 1-877-518-5608, and to the LGD immediately after discovery.
7. Spills and releases that impact or threaten to impact a water supply intake shall be reported immediately to the LGD, and to the owner of the intake if the Town is not the owner of the intake.
8. Spills, chemical spills and releases shall be reported in compliance with applicable state and federal laws. Applicant will provide the LGD with a copy of any self-reporting submissions that applicant provides to any agency.

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N. Use of Steel-Rim Berms

The Oil and Gas Operation shall use steel rim berms or some other state of the art technology that has the capacity to contain 150% of the largest storage tank.

O. Vehicle and Equipment Fueling and Maintenance

Routine field maintenance of vehicles or mobile machinery shall not be performed within five hundred (500) feet of any water body. All fueling must occur over impervious material.

P. Fuel Storage Areas

The Oil and Gas Operation includes measures to contain fuel in fuel storage areas to prevent release to any water body. Inventory management or leak detection plans may be required.

Q. Waste Water Management

Operation will be conducted in conformance with the Waste Water Management Plan.

1. All fluids will be contained and there will be no discharge of fluids.
2. Waste will be stored in tanks, transported by tanker trucks and/or pipelines, and disposed of at licensed disposal or recycling sites.
3. Land treatment of oil impacted or contaminated drill cuttings within the Town limits is prohibited.
4. Disposal of waste water within the Town limits is prohibited.

R. Use of Underground Waste Water Injection Wells Prohibited

Class II underground waste water injection wells within the Town limits are prohibited.

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S. Disposal of Hydraulic Fracturing Fluid

The Operator shall demonstrate the ability to and shall dispose of all hydraulic fracturing fluids in accordance with the Chemicals and Hydraulic Fracturing Fluids Disposal and Reporting Plan.

T. Hazardous Materials

1. The Oil and Gas Operation includes measures to contain all hazardous materials in storage areas to prevent release to any water body. Inventory management and leak detection systems are required.
2. Full disclosure, consistent with COGCC requirements, including material safety data sheets of all hazardous materials that will be transported on any public or private roadway within the Town for the Oil and Gas Operation, shall be provided to the LGD. This information will be treated as confidential and will be shared with other emergency response personnel only on an as needed basis.
3. Flammable Material. The area twenty-five (25) feet around anything flammable shall be kept free of dry grass or weeds, conform to COGCC safety standards and applicable fire code.

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U. Chemical Disclosure and Storage

Prior to bringing hydraulic fracturing chemicals onto the property, the Operator shall make available to the Town, in table format, the name, Chemical Abstracts Service (CAS) number, storage, containment and disposal method for such chemicals to be used on the well site, which the Town may make available to the public as public records. Fracturing chemicals shall be uploaded onto the FracFocus website within sixty (60) days of the completion of fracturing operations. The Operator shall not permanently store fracturing chemicals, flowback from hydraulic fracturing, or produced water in the Town limits. Operator shall remove all hydraulic fracturing chemicals at a well site within thirty (30) days following the completing of hydraulic fracturing at that well site.

The following chemicals will not be added to the hydraulic fracturing fluids used at the well sites:

Ingredient Name	CAS#
Benzene	71-43-2
Lead	7439-92-1
Mercury	7439-97-6
Arsenic	740-38-2
Cadmium	7440-43-9
Chromium	7440-47-3
Ethyl benzene	100-41-4
Xylenesf	1330-20-7
1,3 ,5-trimethylbenzene	108-67-8
1 ,4-dioxane	123-91-1
1-butanol	71 -36-3
2-butoxyethanol	111-76-2
N ,N -dimethylfonnamide	68-12-2
2-ethylhexanol	104-76-7
2-mercaptoethanol	60-24-2
benzene, 1, 1'-oxybis-, tetrapropylene derivatives, sulfonated, sodium salts (BOTS)	119345-04-9
butyl glycidyl ether	8/6/2426
polysorbate 80	9005-65-6
quatemary ammonium compounds, dicoco alkyldimethyl, chlorides (QAC)	61789-77-3
bis hexamethylene triamine penta methylene phosphonic acid (BMPA)	35657-77-3
diethylenetriamine penta (methylene-phosphonic acid)(DMPA)	15827-60-8
FD&C blue no. 1	3844-45-9
Tetrakis(triethanolaminato) zirconium(IV) (TTZ)	101033-44-7

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V. Emergency Response

The Oil and Gas Operation shall be conducted in accordance with the Emergency Response Plan.

W. Noise

1. No well shall be drilled, re-drilled, or any equipment operated in such a manner so as to create any noise which causes exterior noise level¹ that:

- a. Exceeds the ambient noise level by more than five (5) decibels during daytime hours and more than three (3) decibels during nighttime hours;
- b. Exceeds the ambient noise level by more than ten decibels over the daytime average ambient noise level during fracturing operations during daytime hours. No fracturing shall be allowed during nighttime hours except for flowback operations related to fracturing as provided in subsection 1.c. below unless a waiver is granted by the LGD.
- c. Exceeds the ambient noise level by more than three (3) decibels during flowback operations during nighttime hours;
- d. Creates pure tones where one-third octave band sound-pressure level in the band with the tone exceeds the arithmetic average of the sound-pressure levels of two contiguous one-third octave bands by five (5) dB for center frequencies of 500 Hertz and above, and by eight (8) dB for center frequencies between 160 and 400 Hertz, and by fifteen (15) dB for center frequencies less than or equal to 125 Hertz; or
- e. Creates low-frequency outdoor noise levels that exceed the following dB levels:

16 Hz octave band	65 dB
31.5 Hz octave band	65 dB
64 Hz octave band	65 dB

2. The Operator shall establish and report to the LGD a continuous 72 hour pre-drilling ambient noise level prior to the issuance of a Permit. The 72-hour time span shall include at least one 24-hour reading during either a Saturday or Sunday. The Operator shall use the prior established ambient noise level for the installation of any new noise generation equipment unless the Operator can demonstrate that the increase in the ambient noise level is not associated with drilling and production activities located either on-site or off-site.

3. Adjustments to the noise standards as set forth above in subsection 1.a, 1.b and 1.c. of this Section may be permitted intermittently in accordance with the following:

Permitted Increase (dBA)	Duration of Increase (minutes) [*]
10	5
15	1
20	Less than 1
[*] Cumulative minutes during any one hour	

4. All workover operations shall be restricted to daytime hours.

5. The exterior noise level generated by the drilling, re-drilling or other operations of all wells located within 600 feet of a protected use shall be continuously monitored, to ensure

¹ Measured at the protected use's property line or from the closest exterior point of the protected use structure or inside the protected use structure if access to the property is granted.

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compliance. The cost of such monitoring shall be borne by the Operator. If a complaint is received by either the Operator or the Town the operator shall, within 24 hours of notice of the complaint, continuously monitor for a 72-hour period the exterior noise level generated by the drilling, redrilling or other operations to ensure compliance. At the request of the Town, the Operator shall monitor the exterior noise level at the source of the complaint.

6. Acoustical blankets, sound walls, mufflers or other alternative methods as approved by the Town may be used to ensure compliance. All soundproofing shall comply with accepted industry standards and be subject to approval by the fire district.
7. The sound level meter used in conducting noise evaluations shall meet the American National Standard Institute's Standard for sound meters or an instrument and the associated recording and analyzing equipment which will provide equivalent data.
8. The Operator shall verify compliance with the requirements of this Section 10.12.4.W and the Noise Management Plan after the installation of the noise-generating equipment.
9. If the Operator is in compliance with the approved Noise Management Plan and a violation still occurs, the Operator shall be notified of noncompliance and given 24 hours to correct the violation from an identified source before a notice of violation and enforcement measures under Section 10.12.7 are triggered. Additional extensions of the 24-hour period may be granted in the event that the source of the violation cannot be identified after reasonable diligence by the operator.

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X. Vibration

1. No vibration shall be transmitted thru the ground that is discernible without the aid of instruments measured at five hundred (500) feet from the abutting residential or commercial development.
2. No vibration shall exceed 0.002g peak at up to fifty (50) cps frequency measured at five hundred (500) feet from the abutting residential or commercial development. Vibrations recurring at higher than 50 cps frequency or a periodic vibrator shall not induce accelerations exceeding 0.001g.
3. Single impulse period vibrations occurring at an average interval greater than five (5) minutes shall not induce accelerations exceeding .01g.
4. Operator shall conduct continuous seismic monitoring during fracking operations.
 - a. Seismic events greater than 2.0 on Richter scale shall be reported to LGD and to COGCC.
 - b. If a seismic event occurs, the Town may stop operations immediately and Operator can only resume work once the Town is satisfied with the actions taken to reduce the likelihood of further seismicity.
 - c. Operations shall be immediately suspended for any seismic event measuring 4.0 or above on the Richter scale. Operator may only resume work once the Town is satisfied with the actions taken to reduce the likelihood of further seismicity.

Y. Visual Quality

The Oil and Gas Operation shall not cause significant degradation to the scenic attributes and character of the Town.

1. Facilities shall be painted in a uniform, non-contrasting, non-reflective color, to blend with the surrounding landscape and with colors that match the land rather than the sky. The color should be slightly darker than the surrounding landscape.
2. The Oil and Gas Operation shall be buffered from sensitive visual areas by providing landscaping along the perimeter of the site between the surface equipment and the sensitive visual area.

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3. The Oil and Gas Operation shall be constructed in a manner to minimize the removal of and damage to existing trees and vegetation. If the Operation requires clearing trees or vegetation, the edges of the cleared vegetation should be feathered and thinned and the vegetation should be mowed or brushhogged while leaving root structure intact, instead of scraping the surface.
4. The Oil and Gas Operation shall be sited away from prominent natural features and visual, scenic and environmental resources such as distinctive rock and land forms, rivers and streams, and distinctive vegetative patterns.
5. The Oil and Gas Operation shall use low profile tanks or less visually intrusive equipment.

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Z. General Operations and Maintenance Requirements

1. The Operator shall at all times keep the well sites, roads, rights-of-way, facility locations, and other Oil and Gas Operation areas safe and in good order, free of noxious weeds, litter and debris.
 - a. The Operator shall be responsible for ongoing weed control at all locations disturbed by the Operation and along access roads during construction and operation, until abandonment and final reclamation is completed.
 - b. The Operator shall utilize vehicle tracking control practices to control potential sediment discharges from unpaved surfaces. Such practices may include road and pad design and maintenance to minimize rutting and tracking, controlling site access, street sweeping or scraping, tracking pads, and wash racks. Traction chains from heavy equipment shall be removed before entering a public roadway.
2. The Operator shall dispose of all water, unused equipment, litter, sewage, waste, chemicals and debris from the site at an approved disposal site.
 - a. All equipment used for drilling, re-drilling and maintenance shall be removed from the well pad site within thirty (30) days after completion of the work, unless otherwise agreed to by the surface owner. Permanent storage of equipment on well pad sites shall not be allowed.
 - b. Materials and trash shall not be buried on-site.
 - c. Trash burning is prohibited.
3. The Operator shall promptly reclaim and reseed all disturbed sites in conformance with the reclamation plan.
4. All mechanized equipment associated with the Operation shall be anchored to minimize transmission of vibrations through the ground.
5. Open-ended discharge valves on all storage tanks, pipelines and other containers shall be secured where the Operation site is unattended or is accessible to the general public. Open-ended discharge valves shall be placed within the interior of the tank secondary containment.
6. Above ground oil and gas well facilities shall be fenced with wrought iron fencing or Ameristar Impasse or Stronghold fencing or approved equivalent, as determined by the Director. The fencing color shall be bronze unless the Director approves black fencing. Black fencing will only be approved by the Director if fencing or site furnishings in the adjacent developments have approved black elements.
7. The Operator will install down cast lighting or some other form of lighting that mitigates light pollution and spill-over onto adjacent properties; provided, however, that Operator may still use lighting that is necessary for public and occupational safety.
8. The Town shall have access to the well pads to conduct inspections. Town personnel will be equipped with all appropriate personal protection equipment (PPE) and will comply with the Operator's customary safety rules and shall be accompanied by an Operator's

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representative.

AA. Grading, Drainage, and Erosion Control

The Oil and Gas Operation shall be conducted in accordance with the Grading, Drainage, and Erosion Control Plan.

BB. Use of Existing Roads

Unless traffic safety, visual or noise concerns, or other adverse surface impacts clearly dictate otherwise, existing roads on or near the site of the Oil and Gas Operation shall be used in order to minimize land disturbance.

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CC. Transportation, Roads, and Access Standards

1. Compliance with Town Standards

All public roads shall be constructed and maintained in compliance with Town standards as necessary to accommodate the traffic and equipment related to Oil and Gas Operations and emergency vehicles.

2. Access to Public Roads

- a. Access points to public roads shall be located, improved and maintained to assure adequate capacity for efficient movement of existing and projected traffic volumes and to minimize traffic hazards.
- b. Access roads shall be improved a minimum distance of 200 feet on the access road from the point of connection to a public road. The access road shall be improved as a hard surface (concrete or asphalt) for the first 100 feet from the public road and then improved as a crushed surface (concrete or asphalt) for 100 feet past the hard surface in the appropriate depth to support the weight load requirements of the vehicles accessing the well and production facilities.
- c. If an access road intersects with a pedestrian trail or walk, the Operator shall pave the access road as a hard surface (concrete or asphalt) a distance of 100 feet either side of the trail or walk and if necessary, replace the trail or walk to address the weight load requirements of the vehicles accessing the well and production facilities.
- d. Temporary access roads associated with the Oil and Gas Operation shall be reclaimed and revegetated to the original state within sixty (60) days after discontinued use of the temporary access roads.

3. Implementation of Traffic Management Plan

The Operator shall implement the approved Traffic Management Plan.

4. Road Repairs

- a. The Operator shall arrange for a qualified outside consultant to perform a road impact study for all public roads that are used to access the Oil and Gas Operation. The consultant shall conduct the first part of the study prior to operations and the second part of the study after the Operator completes all drilling and hydraulic fracturing. The Operator and the Town shall use these studies to determine the extent of any damage accruing to the road during the study period. The Operator shall either promptly pay the Town to repair such damage or arrange for and pay the cost of such repairs itself, whichever the Town prefers.
- b. The Operator shall maintain financial assurance to secure its road repair obligations. The amount of such financial assurance shall equal the Town's annual road maintenance budget as of the date of permit approval multiplied by the percentage yielded by dividing the total number of Town road miles as of the date of permit approval into the number of such road miles that the Operator will use to access the

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Oil and Gas Operation. The Operator shall select the form of such financial assurance and shall maintain such assurance.

- c. If the projected use of public roads as a result of the Oil and Gas Operation will result in a need for an increase in roadway maintenance, the Operator shall enter into an agreement with the Town whereby the Operator provides for private maintenance or reimburses the Town for such increased costs and/or provides a bond or other financial assurance in an amount acceptable to the Town to cover the costs of mitigating impacts to public roads.

DD. Flowlines and Pipelines.

Operator shall comply with the requirements for flowlines set forth in COGCC Rules 1101 through 1105, which address: registration, construction standards, design, installation, reclamation, inspection, maintenance, repair, operation, and integrity management of flowlines; pressure testing; leak protection, detection, and monitoring; and data sharing with local government.

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EE. Floodplain, Wetlands and Riparian Areas

The Oil and Gas Operation shall not have a significant adverse effect on the floodplain and shall not significantly degrade wetlands and riparian areas. Oil and Gas Operations conducted within the Floodplain Overlay District shall comply with Section 10.2.7.C of the UDC.

FF. Natural Resource Areas

The Oil and Gas Operation shall not cause significant degradation of natural landmarks, rare plant species, riparian corridors, or other sensitive areas.

GG. Wildlife

The Oil and Gas Operation shall not cause significant degradation of wildlife or wildlife habitat.

HH. Historical and Cultural Resources

The Oil and Gas Operation shall not cause significant degradation to resources of historic, cultural, paleontological, or archeological importance.

II. Public Services and Facilities

The Oil and Gas Operation shall not have a significant adverse effect on the capability of the Town to provide municipal services or the capacity of the service delivery systems.

JJ. Compliance with Plans

Operation will comply with all plans submitted under Section 10.12.2.E.9.

KK. Financial Guarantee

The Operator will provide evidence of financial guarantee in a form acceptable to the Town to ensure that the Oil and Gas Operation will comply with these Regulations and all conditions of approval imposed by the Board of Trustees. The final amount of such financial guarantee shall be calculated by the Town following final approval of the permit application. The financial guarantee may be increased at any time if the LGD determines that the amount of the guarantee is no longer sufficient.

LL. Benefits Outweigh Adverse Impacts.

Where an impact of an Oil and Gas Operation cannot be completely mitigated, the overall benefits to the Town of the Oil and Gas Operation outweigh any adverse impacts that may be caused by the proposed Operation. This does not obviate the need to satisfy every standard in these

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10.12.45 EXISTING OIL AND GAS OPERATIONS Regulations

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A. Registration of Existing Oil and Gas Operations

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~~Oil and Gas Operations existing at the effective date of these Regulations, including wells that are out of production and wells that are temporarily abandoned or abandoned, must be registered with the Town within thirty (30) days of the effective date of these Regulations.~~

1. ~~Submit Registration Materials~~

~~Operator shall submit the registration materials described in subsection A.2, below, and all applicable fees to the LGD.~~

2. ~~Registration Materials~~

~~The following materials are required for registration of Oil and Gas Operations:~~

- ~~a. Completed Oil and Gas Operation Registration form.~~
- ~~b. Copy of maps and flowline records submitted to COGCC.~~
- ~~c. Copy of the Emergency Response Plan.~~
- ~~d. Copy of current SPCC Plan.~~
- ~~e. Emissions record from previous calendar year.~~
- ~~f. Copy of most recent Operator's Monthly Report of Operations submitted to COGCC.~~
- ~~g. For shut-in wells:
 - ~~i. A map at a scale designated by the Town showing the location, including GPS location, of each shut-in well and denoting the age, size, and the maximum pressure at which it is operated; and its depth from the surface.~~
 - ~~ii. Copy of the most recent mechanical integrity test report submitted to COGCC for each shut-in well.~~~~
- ~~h. For abandoned and temporarily abandoned wells:
 - ~~i. A map at a scale designated by the Town showing the location, including GPS location, of abandoned and temporarily abandoned wells.~~
 - ~~ii. Copy of the most recent mechanical integrity test report submitted to COGCC for each temporarily abandoned well.~~
 - ~~iii. Copy of Form 6 Notice of Intent to Abandon submitted to COGCC.~~
 - ~~iv. Quarterly inspections of temporarily abandoned and shut-in wells for surface impacts.~~~~

B. ~~Decommissioned and Abandoned Oil and Gas Well Assessment and Monitoring Prior to and Following Fracturing~~

~~Prior to any hydraulic fracturing, and at periods following hydraulic fracturing, Operator shall conduct assessment and monitoring of oil and gas wells that are plugged and decommissioned or removed from use or dry and removed from use (abandoned wells) within one-quarter (1/4) mile of the projected track of the borehole of a proposed well. Operator shall obtain permission from each surface owner who has an abandoned well on the surface owner's property to access the property in order to test the abandoned well. If a surface owner has not provided permission to access after thirty (30) days from receiving notice, the applicant shall not be required to test the abandoned well.~~

~~1. Assessment shall include:~~

- ~~a. Based upon examination of COGCC and other publicly available records, identification of all abandoned wells located within one-quarter (1/4) mile of the projected track of the borehole of a proposed well.~~

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- b. Risk assessment of leaking gas or water to the ground surface or into subsurface water resources, taking into account plugging and cementing procedures described in any recompletion or plugged and abandoned report filed with the COGCC.
 - c. Soil gas surveys from various depths and at various distances, depending on results of risk assessment, of the abandoned well prior to hydraulic fracturing
 - d. Soil gas surveys from various depths and at various distances, depending on results of risk assessment, of the abandoned well within one (1) year and then every three (3) years after production has commenced.
2. Operator shall notify the LGD and COGCC of the results of the assessment of the plugging and cementing procedures.
 3. Results of the soil gas survey shall be provided to the LGD and the COGCC within three (3) weeks of conducting the survey or advising the LGD that access to the abandoned wells could not be obtained from the surface owner.
 4. If contamination is detected during any soils testing, no further operations may continue until the cause of the contamination is detected and resolved and the Town has given its approval for additional operations to continue.
 5. Operator shall conduct Bradenhead monitoring. Operator shall equip the bradenhead access to the annulus between the production and surface casing, as well as any intermediate casing, with a fitting to allow safe and convenient determinations of pressure and fluid flow. Valves used for annular pressure monitoring shall remain exposed and not buried to allow for visual inspection. The Operator shall take bradenhead pressure readings on a monthly basis and report those readings to the LGD. Such readings shall include the date, time, and pressure of each reading, and the type of fluid reported.

10.12. SEISMIC SURVEYING AND TESTING

A. Seismic Surveying and Testing Activity Notice Required

An Activity Notice for Seismic Surveying and Testing Activity Notice shall be filed pursuant to Division 10.12.3, Activity Notice for Minor Modification to Existing Oil and Gas Operation and for Seismic Surveying and Testing, with the LGD no less than forty-five (45) calendar days prior to beginning seismic surveying and testing activities. The Town may retain, at the Operator's cost, outside consultants to review the application.

FB. Operational Requirements and Conditions

1. Seismic contractor shall submit a Peak Particle Velocity (PPV) summary to the LGD after the first week of testing and a PPV summary at the end of testing. Contractor may be required to submit additional summaries through the duration of the testing as requested by the LGD.
2. PPVs are not to exceed 0.35 in/sec.
3. Seismic testing shall be conducted only during the hours of 7 a.m. to 6 p.m. Monday-Friday, and 9 a.m. to 6 p.m. on Saturday. Testing is not allowed on Sundays or Town holidays. These hours may be further restricted by the Town to accommodate special events.
4. Gross weight of each vibe truck shall not exceed gross weight of 18,000 lb. on street right-of-way.
5. Lane closures on residential streets are limited to 7 a.m.-4 p.m. Monday-Friday and 9 a.m.-6 p.m. on Saturdays.
6. Contractor will work around, other construction activity, and may need to adjust location of receivers and/or equipment to accommodate businesses.
7. The Seismic Surveying and Testing will satisfy the noise requirements in Section 10.12.4.W.

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8. Contractor will maintain Americans with Disabilities Act (ADA) compliant pathways and is will resolve potential trip hazards from seismic hardware, lines/cables, etc.
9. With the exception of seismic recording hardware and cables, no surveying or testing equipment may be stored in Town right-of-way without the permission from the Director of Public Works.
10. Mud and/or debris associated with surveying and testing will be removed daily.
11. Contractor is responsible for any damages caused by seismic surveying and testing.
12. All traffic control must be in compliance with the latest version of the Uniform Traffic Control Devices and the Town of Erie Municipal Code.
13. Contractor shall comply with all other Town permit requirements and is responsible for keeping permits current and in testing vehicles at all times.

B. Seismic Surveying and Testing Activity Notice Materials

The Notice shall include the following:

1. The name, address, and telephone number of the Operator.
2. The name, address, and telephone number of the seismic contractor who will be present at and responsible for conducting the seismic surveying and testing activities.
3. If the surface land comprising the seismic surveying and testing area is owned by a person other than the Operator, the name and address of the owner of record of the surface land and a description of the basis upon which the person proposing exploration activities claims the right to enter the proposed exploration area.
4. Seismic Surveying and Testing Plan

A plan that includes:

a. Description of Proposed Seismic Survey and Testing Area.

- i. Map of the proposed seismic survey and testing area.
- ii. A narrative description of the proposed seismic survey and testing area including surface topography, geology, drainage, surface water, and other physical features; vegetative cover; wildlife habitats and habitats of endangered or threatened species; and recreational, historical and archaeological resources located within the seismic survey and testing area or affected by the activities.

b. Description of Proposed Seismic Survey and Testing Activity

- i. Narrative description of the proposed seismic survey and testing activity;
- ii. Commencement date and duration of surveying and testing.
- iii. List of all property owners and occupants affected.
- iv. List of streets that will be affected;
- v. Description of how the proposed seismic surveying and testing activities will meet the conditions and requirements in Section 10.12.5.F.
- vi. Narrative description of methods to be used for reclamation of the area upon completion of the seismic surveying and testing activities.

D. Activity Notice Review and Decision by LGD

Within five (5) working days after the Activity Notice is deemed complete by the LGD, the LGD shall determine whether the Activity Notice shows that the conduct of the seismic surveying and testing can be conducted in accordance with the conditions and requirements in Section 10.12.5.F.

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1.—Approval of Activity Notice

If the Activity Notice shows that the seismic surveying and testing will be conducted in accordance with the conditions and requirements in Section 10.12.5.F, the LGD shall provide the seismic contractor with a written order approving the conduct of the seismic surveying and testing.

2.—Denial or Conditional Approval of Activity Notice

If the Activity Notice shows that the seismic surveying and testing cannot be conducted in accordance with the conditions and requirements in Section 10.12.5.f., the LGD shall prohibit the seismic surveying and testing; or the LGD may approve the Activity Notice with conditions determined to be necessary for the testing and surveying to be conducted in compliance with Section 10.12.5.F.

E.—Public Notice

1.—Written Notice

Not less than fifteen (15) days ahead of the date the Seismic Surveying and Testing activities will begin, the Operator shall deliver the approved Activity Notice to the property owners and occupants, and other parties required in this section E.2.

2.—Parties to Receive Notice

The list of parties to be notified shall include the following and shall be compiled by the Operator using the most current records on file with the County Assessor.

- a.—Affected homeowners' associations, neighborhood associations, and school districts within one (1) mile of the seismic surveying and testing area.
- b.—Affected owners of record and occupants of property within one (1) mile of the seismic surveying and testing area.
- c.—The LGD of municipalities and counties within one (1) mile of the seismic surveying and testing area.
- d.—Additional persons or geographic areas that the LGD may designate.

3.—Validity of Notice

The Operator is responsible for the accuracy of the list of property owners and occupants and other parties to whom written notice is provided. If the Operator makes reasonable good faith efforts to accomplish the notice responsibilities identified above, then the failure of any property owner or occupant to receive notice shall not affect the validity of the public notice.

10.12.6 EXISTING OIL AND GAS OPERATIONS RESERVED

10.12.47 ENFORCEMENT AND PENALTIES

A. Oil and Gas Operations in Violation of These Regulations

- 1. Any person engaging in a development of Oil and Gas Operations who does not comply with these Regulations, or who acts outside the jurisdiction of the Oil and Gas Permit may be enjoined by the Town from engaging in such development and may be subject to such other criminal or civil liability as may be prescribed by law.
- 2. If the Town determines at any time that there are material changes in the construction or operation of the Oil and Gas Operation from that approved by the Town, the Permit shall be immediately suspended and a hearing shall be held to determine whether new conditions are necessary to ensure compliance with the Permit or these Regulations, or if the Permit should be revoked.

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B. Permit Suspension or Revocation

1. Suspension

The Board of Trustees may temporarily suspend the Permit for a period of thirty (30) days for any violation of the Permit or these Regulations. Prior to any permit suspension, the Board of Trustees shall provide the Permittee with written notice of the violation. The Permittee will have a minimum of fifteen (15) days to correct the violation. If the violation is not corrected, the Permit shall be temporarily suspended for thirty (30) days.

2. Revocation

The Board of Trustees may, following notice and hearing, revoke a Permit granted pursuant to these Regulations if any of the activities conducted by the Permittee violates the conditions of the Permit or these Regulations. No less than thirty (30) days prior to the revocation hearing, the Board of Trustees shall provide written notice to the Permittee setting forth the violation and the time and date for the revocation hearing. Public notice of the revocation hearing shall be published in a newspaper of general circulation not less than thirty (30) days prior to the hearing. Following the hearing, the Board of Trustees may revoke the Permit or may specify a time by which action shall be taken to correct any violations for the Permit to be retained.

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C. Transfer of Permits.

A Permit may be transferred only with the written consent of the Board of Trustees. The Board of Trustees must ensure, in approving any transfer, that the proposed transferee can and will comply with all the requirements, terms, and conditions contained in the Permit and these Regulations; that such requirements, terms, and conditions remain sufficient to protect the health, welfare, and safety of the public; and that an adequate guarantee of financial security can be made.

D. Inspection

The Town may enter and inspect any property subject to these Regulations at reasonable hours for the purpose of determining whether the development is in violation of the provisions of these Regulations. The Town shall personnel shall be equipped with appropriate personal protection equipment. The Town will attempt to provide reasonable notice of inspections but reserves the right to conduct spot inspections.

E. Judicial Review

Any action seeking judicial review of a final decision of the Board of Trustees shall be initiated within thirty (30) days after the decision is made, pursuant to Rule 106 of the Colorado Rules of Civil Procedure.

10.12.5 EXISTING OIL AND GAS OPERATIONS

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A. Seismic Surveying and Testing Activity Notice Required

An Activity Notice for Seismic Surveying and Testing Activity Notice shall be filed pursuant to Division 10.12.3, Activity Notice for Minor Modification to Existing Oil and Gas Operation and for Seismic Surveying and Testing, with the LGD no less than forty-five (45) calendar days prior to beginning seismic surveying and testing activities. The Town may retain, at the Operator's cost, outside consultants to review the application.

FB. Operational Requirements and Conditions

1. Seismic contractor shall submit a Peak Particle Velocity (PPV) summary to the LGD after the first week of testing and a PPV summary at the end of testing. Contractor may be required to submit additional summaries through the duration of the testing as requested by the LGD.
2. PPVs are not to exceed 0.35 in/sec.
3. Seismic testing shall be conducted only during the hours of 7 a.m. to 6 p.m. Monday-Friday, and 9 a.m. to 6 p.m. on Saturday. Testing is not allowed on Sundays or Town holidays. These hours may be further restricted by the Town to accommodate special events.
4. Gross weight of each vibrate truck shall not exceed gross weight of 18,000 lb. on street right-of-way.

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- 5- Lane closures on residential streets are limited to 7 a.m.-4 p.m. Monday-Friday and 9 a.m. - 6 p.m. on Saturdays.
- 6- Contractor will work around other construction activity, and may need to adjust location of receivers and/or equipment to accommodate businesses.
- 7- The Seismic Surveying and Testing will satisfy the noise requirements in Section 10.12.4.W.
- 8- Contractor will maintain Americans with Disabilities Act (ADA) compliant pathways and is will resolve potential trip hazards from seismic hardware, lines/cables, etc.
- 9- With the exception of seismic recording hardware and cables, no surveying or testing equipment may be stored in Town right-of-way without the permission from the Director of Public Works.
- 10- Mud and/or debris associated with surveying and testing will be removed daily.
- 11- Contractor is responsible for any damages caused by seismic surveying and testing.
- 12- All traffic control must be in compliance with the latest version of the Uniform Traffic Control Devices and the Town of Erie Municipal Code.
- 13- Contractor shall comply with all other Town permit requirements and is responsible for keeping permits current and in testing vehicles at all times.

An Activity Notice is required prior to (i) making any minor modification to an existing eOil and eGas eOperation, and (ii) prior to conducting any seismic surveying or testing.

A. Activity Notice Materials

- 1. Activity Notice Materials for Minor Modification to Existing Oil and Gas Operation.
 - a. The name, address, and telephone number of the Operator.
 - b. Narrative description of the existing Operation and the proposed modification, and site plan with sufficient detail to show the extent of the modification proposed.
 - c. Name and address of:

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- i. Homeowner associations, neighborhood associations and school districts within one (1) mile of the boundaries of the area of the Operation.
- ii. Owners of record and occupants of property within one (1) mile of the boundaries of the area of the Operation.
- iii. The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the Operation.

10.12.3 ACTIVITY NOTICE FOR MINOR MODIFICATION TO AN EXISTING OIL AND GAS OPERATION AND SEISMIC SURVEYING AND TESTING

An Activity Notice is required prior to (i) making any minor modification to an existing eOil and eGas Operation, and (ii) prior to conducting any seismic surveying or testing.

A. Activity Notice Materials for Seismic Surveying and Testing.

1. The name, address, and telephone number of the Operator if the Operator is conducting the seismic surveying and testing.
2. The name, address, and telephone number of the seismic contractor who will be present at and responsible for conducting the seismic surveying and testing activities.
3. The name and address of:
 - a. Homeowner's associations, neighborhood associations, and school districts within one (1) mile of the boundaries of the area of the activity.
 - b. Owners of record and occupants of property within one (1) mile of the boundaries of the area of the activity.
 - c. The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the activity.
4. If the surface land comprising the area of proposed activity is owned by a person other than the applicant, the name and address of the owner of record of the surface land and a description of the basis upon which the person proposing activities claims the right to conduct the proposed activities on the area.
5. Seismic Surveying and Testing Plan. A plan that includes:
 - a. A map of the proposed seismic survey and testing area including surface topography, geology, drainage, surface water, and other physical features; vegetative cover; wildlife habitats and habitats of endangered or threatened species; and recreational, historical and archaeological resources located within the seismic survey and testing area or affected by the activity.
 - b. Description of Proposed Seismic Survey and Testing Activity
 - i. Narrative description of the proposed seismic survey and testing activity.
 - ii. Commencement date and duration of surveying and testing.
 - iii. List of all property owners and occupants within one (1) mile of the seismic testing and surveying area.
 - iv. List of streets that will be affected.
 - v. Description of how the seismic surveying and testing activities will meet the conditions and requirements in Section 10.12.6.B.
 - vi. Narrative description of methods to be used for reclamation of the area upon completion of the seismic surveying and testing activities.

B. Activity Notice Review and Decision by LGD. Within five (5) working days after the Activity Notice

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is deemed complete by the LGD, the LGD shall determine whether the Activity Notice shows that the proposed activity can be conducted in accordance with the requirements of these Regulations.

1. Minor Modification of Existing Oil and Gas Operation.

a. If the Activity Notice shows that the proposed modification of an existing Oil and Gas Operation does not constitute a substantial modification as defined in Section 10.12.1.H, the LGD shall provide the Operator with a written order approving or approving with conditions the minor modification. Conditions may be imposed as necessary to protect public health, safety, welfare and the environment.

b. If the Activity Notice shows that the proposed modification of an existing Oil and Gas Operation does not qualify as a minor modification, the LGD shall prohibit the proposed modification and require the Operator to submit an application for a Permit under these Regulations.

2. Seismic Surveying and Testing.

a. If the Activity Notice shows that the seismic surveying and testing will be conducted in accordance with the conditions in Section 10.12.6.B, the LGD shall provide the Operator and/or seismic contractor with a written order approving the conduct of the seismic surveying and testing.

b. If the Activity Notice shows that the seismic surveying and testing cannot be conducted in accordance with the requirements of Section 10.12.6.B, the LGD shall prohibit the seismic surveying and testing; or the LGD may approve the seismic surveying and testing with conditions that are necessary for it to be conducted in compliance with operational conditions and requirements of Section 10.12.6.B.

B. Public Notice

1. Written Notice

Not less than fifteen (15) days ahead of the date the activity will begin, the Operator shall deliver the approved Activity Notice and order to the property owners and occupants, and other parties required in subsection C.2 below.

2. Parties to Receive Notice

The list of parties to be notified shall include the following and shall be compiled by the Operator using the most current records on file with the County Assessor.

a. Homeowners' associations, neighborhood associations, and school districts within one (1) mile of the boundaries of the area of the Operation or activity.

b. Owners of record and occupants of property within one (1) mile of the boundaries of the area of the Operation or activity.

c. The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the Operation or activity.

d. Additional persons or geographic areas that the LGD may designate.

3. Validity of Notice

The Operator is responsible for the accuracy of the list of property owners and occupants and other parties to whom written notice is provided. If the Operator makes reasonable good faith efforts to accomplish the notice responsibilities identified above, then the failure of any property owner or occupant to receive notice shall not affect the validity of the public notice.

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a. If the Activity Notice shows that the proposed modification of an existing Oil and Gas Operation does not constitute a substantial modification as defined in Section 10.12.1.H, the LGD shall provide the Operator with a written order approving or approving with conditions the minor modification. Conditions may be imposed as necessary to protect public health, safety, welfare and the environment.

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b. If the Activity Notice shows that the proposed modification of an existing Oil and Gas Operation does not qualify as a minor modification, the LGD shall prohibit the proposed modification and require the Operator to submit an application for a Permit under these Regulations.

2. Seismic Surveying and Testing.

a. If the Activity Notice shows that the seismic surveying and testing will be conducted in accordance with the conditions in Section 10.12.6.B, the LGD shall provide the Operator and/or seismic contractor with a written order approving the conduct of the seismic surveying and testing.

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b. If the Activity Notice shows that the seismic surveying and testing cannot be conducted in accordance with the requirements of Section 10.12.6.B, the LGD shall prohibit the seismic surveying and testing; or the LGD may approve the seismic surveying and testing with conditions that are necessary for it to be conducted in compliance with operational conditions and requirements of Section 10.12.6.B.

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C. Public Notice

1. Written Notice

Not less than fifteen (15) days ahead of the date the activity will begin, the Operator shall deliver the approved Activity Notice and order to the property owners and occupants, and other parties required in subsection C.2 below.

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2. Parties to Receive Notice

The list of parties to be notified shall include the following and shall be compiled by the Operator using the most current records on file with the County Assessor:

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a. Homeowners' associations, neighborhood associations, and school districts within one (1) mile of the boundaries of the area of the Operation or activity.

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b. Owners of record and occupants of property within one (1) mile of the boundaries of the area of the Operation or activity.

c. The LGD of municipalities and counties within one (1) mile of the boundaries of the area of the Operation or activity.

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d. Additional persons or geographic areas that the LGD may designate.

3. Validity of Notice

The Operator is responsible for the accuracy of the list of property owners and occupants and other parties to whom written notice is provided. If the Operator makes reasonable good faith efforts to accomplish the notice responsibilities identified above, then the failure of any property owner or occupant to receive notice shall not affect the validity of the public notice.

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10.12.4 OIL AND GAS OPERATIONS STANDARDS

GENERAL PROVISIONS

3. No person shall make a minor modification to existing Oil and Gas Operations within the municipal boundaries prior to filing an Activity Notice and obtaining an order pursuant to Section 10.12.3 of these Regulations.

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E. Applicability

1. Oil and Gas Operations existing at the effective date of these Regulations are subject to the requirements in Section 10.12.5 of these Regulations.

2. Continuation of Existing Operations

Oil and Gas Operations that are being conducted pursuant to approved permits as of the effective date of these Regulations or that are located within territory which thereafter is annexed to the Town may continue operating without the issuance of an Oil and Gas Permit under these Regulations, but shall comply with the requirements of Section 10.12.6 of these Regulations.

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