

**DRAFT PROPOSED
RULE 1148.2**

**NOTIFICATION AND REPORTING REQUIREMENTS
~~FOR OF PRE-PRODUCTION OPERATIONS OF OIL~~
AND GAS WELLS AND CHEMICAL SUPPLIERS**

(a) Purpose

The purpose of this rule is to gather air quality-related information on oil and gas well ~~pre-production activities such as~~ drilling, well completion, and/or well rework ~~activities~~.

(b) Applicability

This rule applies to any owner or operator of an onshore oil or gas well located in the District that is conducting oil or gas well drilling, well completion ~~activities~~, and well reworks. In addition, this rule applies to suppliers as defined in paragraph (c)(~~13~~1).

(c) Definitions

For the purposes of this rule, the following definitions shall apply:

(~~1~~) ACIDIZING means pressurized injection of acids into a well and surrounding rock units in order to induce removal of near-well formation damage and other damaging substances, or opening of the rock matrix and/or cemented fractures and thereby increase the rock unit fracture permeability.

(~~2~~) CHEMICAL FAMILY means a group of chemicals with related physical and chemical properties.

(~~3~~) DRILLING means digging or boring into the earth for the purpose of developing, extracting, or producing oil, gas, or other hydrocarbons, but does not include remediation efforts to clean-up or remove contamination.

(~~4~~) DRILLING FLUID means fluid used to lubricate the drill string, line, the walls of a well, flush cuttings to the surface, and create enough hydrostatic weight to prevent blowouts.

(~~5~~) FLOWBACK FLUID means the fluid that flows from an oil or gas well following a treatment, either in preparation for a subsequent phase of treatment or in preparation for a cleanup and returning the well to production. The flowback period begins when material introduced into the well during the treatment returns to the surface immediately following well completion hydraulic fracturing or refracturing. The flowback period

ends with either well shut in or when the well is producing continuously to the flow line or to a storage vessel for collection, whichever occurs first.

- (6) GRAVEL PACK means a method of well completion that uses water, gravel, and additives to place sand and gravel near the well itself with the objective of limiting entry of formation sands and fine-grained material into the wellbore.
- (75) HAZARDOUS AIR POLLUTANT means an air pollutant that causes or may cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental and ecological effects, as identified by the U.S. Environmental Protection Agency (EPA).
- (86) HYDRAULIC FRACTURING means a technique used in stimulating a formation or zone that involves the pressurized injection of hydraulic fracturing fluid, which is a carrier fluid mixed with chemical additives, and proppant into an underground geologic formation in order to fracture the formation, thereby causing or enhancing the production of oil or gas from a well.
- (97) ONSHORE WELL means a well located on lands that are not submerged under ocean waters or inland bays during mean high tide.
- (108) PROPPANT means material inserted or injected into the underground geologic formation that is intended to prevent fractures from closing.
- (119) ~~REWORK means, for the purpose of this rule, any operation subsequent to drilling performed after the well is completed that involves deepening or, redrilling, or permanently altering in any manner the casing of a well or its function, or other activities to restore or improve the ability of the well to produce oil or gas.~~
- (124) SENSITIVE RECEPTOR means any residence including private homes, condominiums, apartments, and living quarters; education resources such as preschools and kindergarten through grade twelve (k-12) schools; daycare centers; and health care facilities such as hospitals or retirement and nursing homes. A sensitive receptor includes long term care hospitals, hospices, prisons, and dormitories or similar live-in housing.
- (134) SUPPLIER means, for the purpose of this rule, an entity selling or distributing an additive directly to the owner or operator of an onshore oil or gas well for use as a drilling fluid, well completion fluid, or rework.
- (144) TOXIC AIR CONTAMINANT is an air pollutant which may cause or

- 2) contribute to an increase in mortality or serious illness, or which may pose a present or potential hazard to human health, as identified by the California Air Resources Board.
- ~~(154)~~ WELL means an oil or gas well, a hole drilled for the purpose of producing oil or gas, or a well into which fluids are injected.
- 3) ~~(164)~~ WELL COMPLETION means the activities and methods, including gravel packing and well production stimulation activities, of preparing a well for the production of oil and gas, by which one or more flow paths for hydrocarbons are established between the reservoir and the surface. ~~including well production stimulation activities including but not limited to, hydraulic fracturing or refracturing, acidizing, and high-rate gravel pack and the method by which one or more flow paths for hydrocarbons are established between the reservoir and the surface.~~
- ~~(174)~~ WELL COMPLETION FLUID means a carrier fluid mixed with physical and chemical additives used for the purpose of preparing a well for the production of oil and gas, or used in a well production stimulation activity, ~~including but not limited to, hydraulic fracturing or refracturing, acidizing, and high-rate gravel packing.~~
- 5) ~~(18)~~ WELL PRODUCTION STIMULATION ACTIVITY means an activity performed on a well to improve its productivity.

(d) Notification Requirements

- (1) Beginning [90 days after date of adoption] the owner or operator of an onshore oil or gas well shall electronically notify the Executive Officer, of the following information, no more than ten (10) days and no less than ~~five (5) days~~ 24 hours prior to the start of drilling, well completion, or rework of an oil or gas well:
- (A) owner or operator of the subject well(s);
- (B) API well number(s) (if available);
- (C) geographical coordinates of the subject well(s);
- (D) nearest sensitive receptor within 1,500 feet of the subject well(s), specifying the location address, name of facility (if available), and distance of any sensitive receptors within 1,500 feet of the subject well;
- (i) sensitive receptor type (e.g., residence, school, hospital);
- (ii) name of facility, if applicable;

- (iii) location address; and
 - (iv) distance from the closest property line of the sensitive receptor to the subject well(s); and
 - (E) expected start date(s) and identification of general activities to be conducted (e.g., drilling, well completion, and reworking-); ~~and~~
 - (F) ~~copy of the following applicable forms submitted to the Department of Conservation, Division of Oil and Gas and Geothermal Resources, pursuant to California Code of Regulations, Title 14, Division 2, Chapter 4:~~
 - (i) ~~Notice of Intention to Drill New Well; and/or~~
 - (ii) ~~Notice of Intention to Rework/Redrill Well; and/or~~
 - (iii) ~~a document providing notice of hydraulic fracturing operations.~~
- (2) If the start date of the drilling, well completion, or rework as notified pursuant to paragraph (d)(1) is modified, the owner or operator of an onshore oil or gas well shall electronically notify the Executive Officer that the start date for the well specified in the notice has been modified.
- (3) The notification time period in paragraph (d)(1) shall not apply to drilling, well completion, or rework operations that are necessary to avert a threat to life, health, property, or natural resources. The notification shall be submitted no later than 48 hours of the start of the operations specified in this paragraph.
- (e) Reporting Requirements
 - (1) Beginning [90 days after date of adoption] and until [2 years after date of adoption], for each well, the owner or operator of an onshore oil and gas production well shall electronically submit a report to the Executive Officer no later than ~~two (2) weeks~~ thirty (30) days after the completion of the last activity, or if more than one operation is being conducted, the last activity in the series of operations associated with drilling, well completion or rework, specifying the following information:
 - (A) owner or operator of the subject well;
 - (B) API well number;
 - (C) identification of combustion equipment rated at greater than 50 brake horsepower that are used throughout the drilling, well completion, and reworks including the equipment type, engine

- size, fuel type, engine tier, and hours of operation;
- (i) ~~the type of equipment, engine size, fuel type, emission rate, and hours of operation; and~~
 - (ii) ~~if applicable, California Air Resources Board's Portable Equipment Registration Program number or District permit number.~~
- (D) for dry materials used for drilling, well completion, and rework provide:
- (i) type and amount of dry materials used;
 - (ii) method(s) in which dry materials are added and mixed onsite into the drilling and well completion fluid(s); and
 - (iii) any air pollution control techniques, devices, and/or practices used to control fugitive emissions or odors;
- (E) for drilling fluids and flowback fluid, provide:
- (i) ~~volume of drilling fluids used and recovered;~~
 - (ii) volume of well completion fluids used and volume of flowback fluid recovered;
 - (iii) method(s) used for conditioning, separating, and/or treating of drilling fluids and/or flowback fluids as it returns to the surface;
 - (iii) any air pollution techniques, devices, and/or practices used to control volatile organic compounds or odors; and
 - (iv) final disposition of recovered drilling fluids and flowback fluids.
- (2) Beginning [90 days after date of adoption], the owner or operator of an onshore oil and gas production well shall electronically report chemical compounds contained in the drilling and fluids, well completion fluids, ~~and rework operations~~ to the Executive Officer no later than ~~two (2) weeks~~ thirty (30) days after ~~of~~ the last activity, or if more than one operation is being conducted, the last activity in the series of operations associated with drilling, well completion, ~~and/or rework~~ including specifying the following information:
- (A) name of each chemical compound and chemical abstract service (CAS) number;
 - (B) for each chemical trade name product:
 - (i) the total volume and density; or

- (ii) total mass;
 - (C) for each chemical ingredient used in the chemical trade name product, the maximum concentration in percent by mass;~~;~~
 - (D) identification of chemical information claimed as trade secret and chemical family or similar descriptor;~~and~~
 - (E) identification of whether the chemical(s) are a hazardous air pollutant and/or toxic air contaminant;~~and~~.
 - (F) company name, address, contact, and phone number of the suppliers for any chemical.
- (3) Beginning [90 days after date of adoption], a~~A~~ supplier that provides additives directly to the owner or operator of an oil or gas well for drilling, well completion, ~~or~~ rework shall provide the owner or operator with the information required in paragraph (e)(2) within ten (10) days after the chemicals are sold to the owner or operator. If a supplier claims trade secret, and does not provide the owner or operator with the information specified in (e)(2), then the supplier shall provide the owner or operator of the oil or gas well with substitute information as provided in paragraph (f)(2). The supplier shall provide information not made available to the owner or operator, as described in paragraph (e)(2) to the Executive Officer.
- (f) AQMD Website Posting of Chemicals
- Beginning [90 days after date of adoption], the Executive Officer shall make the following information as received under subdivision (f) available to the public on a website:
- (1) For all non-trade secret chemical compounds used:
 - (A) Name of the chemical compound;
 - (B) Chemical abstract service (CAS) number;
 - (D) Volume or mass of chemical used; and
 - (E) Identification if chemical(s) are a hazardous air pollutant and/or toxic air contaminant.
 - (2) For all trade secret chemical compounds:
 - (A) Chemical family or similar descriptor; and
 - (B) Identification if chemical(s) are a hazardous air pollutant and/or toxic air contaminant.