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SGS North America Inc.

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Fax Memorandum

To: John Norman
Atc Oil and Gas Conservation Com

Phone _____

Fax 907-276-7542

From: _____

Date: 1/9/13

Re: Hydraulic Fracturing Regs

Priority: Rush Normal

Total Pages (including this one): 2

Message:

Parameter TPH (Total Petroleum Hydrocarbons) is not defined.
 Oil and Grease (HEM) must be by method 1664A.
 TPH may be 1664 (HEM) with silica gel treatment.
 Note that the reporting limit ML is 5ug/L per
 the method.

Stephen C. Ede
 Technical Director
 SGS North America, Inc.

We pledge to provide quality analytical services that conform to every client and regulatory requirement.
 We will achieve this performance level by thoroughly understanding our clients' needs and
 keeping local service a top priority. We are committed to leading the industry
 through electronic management of operations and instrument automation.

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MISCELLANEOUS BOARDS

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20 AAC 25.283. Hydraulic Fracturing. (a) An application for hydraulic fracturing under 20 AAC 25.280 shall include;

(1) an affidavit showing that all owners, landowners, surface owners, and operators within one-quarter mile of the wellbore trajectory have been provided a complete copy of the application for hydraulic fracturing;

(2) a plat showing the well location and identifying any water wells located within a one-quarter mile radius of the well's surface location and further identifying any well penetrations (all well types) within one-quarter mile of the proposed wellbore trajectory and fracturing interval and the sources of the information used in identifying such wells;

(3) identification of freshwater aquifers within the one-quarter mile radius;

(4) whether the well is covered by a Freshwater Aquifer Exemption as per 20 AAC 25.440;

(5) water sampling of water wells is required. Water sampling consists of collection of baseline water data pre-fracture and follow-up water sampling collected at the same location no sooner than 90 days and no later than 120 days after the conclusion of any hydraulic fracturing operations. The sample parameters shall include pH; Alkalinity; Specific conductance; Major cations/anions (bromide, chloride, fluoride, potassium, sulfate, sodium); Total dissolved solids; BTEX/GRO/DRO (Benzene, Toluene, Ethylene, Xylene/Gasoline Range Organics/Diesel Range Organics); TPH (Total Petroleum Hydrocarbons) or Oil and Grease (HEM); PAH's (Polynuclear Aromatic Hydrocarbons including benzo(a)pyrene); Dissolved Methane, Dissolved Ethane, Dissolved Propane; and Metals (arsenic, barium, boron, cadmium, calcium, chromium, iron, magnesium, manganese, selenium). Current applicable EPA-approved sample custody and collection protocols and analytical methods for drinking water must be used and analyses must be performed by laboratories that maintain nationally accredited programs. Copies of all test results, analytical results and sample locations shall be provided to the commission and to the Alaska Department of Environmental Conservation in an electronic data deliverable format within 90 days of collecting the samples;

(6) an assessment of each casing and cementing operation performed to construct or repair the well with sufficient supporting information, including cement evaluation logs and other evaluation logs approved by the commission, to demonstrate that casing is cemented below the base of the lowermost freshwater aquifer and according to 20 AAC 25.030;

(7) pressure test information if available and plans to pressure test the casings and tubing installed in the well;

(8) accurate pressure ratings and schematics for the wellbore, wellhead, BOPE, and treating head;

(9) data for the fracturing zone and confining zones including lithologic description, geological name, thickness and measured depth (MD) and true vertical depth (TVD), and estimated fracture pressures for the fracturing zone and confining zones;

(10) the geologic name and depth (MD and TVD) to the bottom of all freshwater aquifers;

(11) the location, orientation, and a report on the mechanical condition of each well that may transect the confining zones and information sufficient to support a determination that such wells will not interfere with containment of the hydraulic fracturing fluid;

(12) the location, orientation, and geological data of known or suspected faults and fractures that may transect the confining zones, and information sufficient to support a