



Sen. Michael W. Frerichs

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09700SB0664sam003

LRB097 04427 CEL 52952 a

1 AMENDMENT TO SENATE BILL 664

2 AMENDMENT NO. _____. Amend Senate Bill 664 by replacing
3 everything after the enacting clause with the following:

4 "Section 5. The Illinois Oil and Gas Act is amended by
5 adding Section 6.5 as follows:

6 (225 ILCS 725/6.5 new)

7 Sec. 6.5. Extraction of natural gas from shale using
8 hydraulic fracturing.

9 (a) Each owner or operator that begins extracting natural
10 gas from shale shall report to the Department the information
11 specified in subsections (b), (c), and (d) within 30 days after
12 the beginning of extraction. The Director shall adopt rules
13 that require, prior to such extraction, the owner or operator
14 to perform a suitable mechanical integrity test of the casing
15 or of the casing-tubing annulus or other mechanical integrity
16 test methods using procedures that are established by

1 administrative rule.

2 (b) The owner or operator shall provide geological names, a
3 geological description, and the depth of the formation into
4 which well stimulation fluids are to be injected.

5 (c) The owner or operator shall provide detailed
6 information to the Director concerning the base stimulation
7 fluid source. The owner, operator, or service company shall
8 also provide to the Director, for each stage of the well
9 stimulation program, the following:

10 (1) each stimulation fluid identified by additive
11 type; and

12 (2) the chemical compound name and Chemical Abstracts
13 Service (CAS) number for each additive used.

14 (d) The owner or operator shall also provide a detailed
15 description of the proposed well stimulation design, which
16 shall include:

17 (1) the anticipated surface treating pressure range;

18 (2) the maximum injection treating pressure; and

19 (3) the estimated or calculated fracture length and
20 fracture height.

21 (e) The Department shall post the information that it
22 receives under subsections (b), (c), and (d) on its Internet
23 website for a period of not less than 5 years.

24 (f) The injection of volatile organic compounds, such as
25 benzene, toluene, ethylbenzene, and xylene, also known as BTEX
26 compounds, or any petroleum distillates, into an underground

1 source of drinking water is prohibited without exception. The
2 proposed use of volatile organic compounds, such as benzene,
3 toluene, ethylbenzene, and xylene, also known as BTEX
4 compounds, or any petroleum distillates, for well stimulation
5 into hydrocarbon bearing zones is only authorized with prior
6 written approval of the Director. Produced water containing
7 trace amounts of naturally occurring petroleum distillates may
8 be used as a stimulation fluid in hydrocarbon-bearing zones.

9 (g) In addition to any other information that it must
10 provide, the owner, operator, or service company shall provide
11 the Director the following post well stimulation detail:

12 (1) the actual total well stimulation treatment volume
13 pumped;

14 (2) detail as to each fluid stage pumped, including
15 actual volume by fluid stage, proppant rate or
16 concentration, actual chemical additive name and type;

17 (3) the actual surface pressure and rate at the end of
18 each fluid stage and the actual flush volume, rate, and
19 final pump pressure; and

20 (4) the instantaneous shut-in pressure, and the actual
21 15-minute and 30-minute shut-in pressures when these
22 pressure measurements are available.

23 (h) During the well stimulation operation, the owner or
24 operator shall monitor and record the annulus pressure at the
25 bradenhead. If intermediate casing has been set on the well
26 being stimulated, the pressure in the annulus between the

1 intermediate casing and the production casing shall also be
2 monitored and recorded. A continuous record of the annulus
3 pressure during the well stimulation shall be submitted.

4 (i) If, during the stimulation, the annulus pressure
5 increases by more than 500 pounds per square inch gauge (psig)
6 compared to the pressure immediately preceding the
7 stimulation, the owner or operator shall verbally notify the
8 Director as soon as practical but no later than 24 hours
9 following the incident and must complete in a timely manner any
10 corrective action identified by the Department. The owner or
11 operator shall include a report containing all details
12 pertaining to the incident, including corrective actions
13 taken.

14 (j) The owner or operator shall provide information to the
15 Director as to the amounts, handling, and, if necessary,
16 disposal at an identified appropriate disposal facility, or
17 reuse of the well stimulation fluid load recovered during flow
18 back, swabbing, or recovery from production facility vessels.
19 Storage of that fluid shall be protective of an underground
20 source of drinking water as demonstrated by the use of either
21 tanks or lined pits.

22 (k) Nothing in this Section shall be construed to allow the
23 Director to require the disclosure of trade secrets as defined
24 in the Illinois Trade Secrets Act.

25 (l) The Department shall adopt all rules necessary to
26 enforce this Section."