



Rep. Naomi D. Jakobsson

Filed: 5/11/2011

09700SB0664ham001

LRB097 04427 CEL 55441 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 hydraulic fracturing stimulation. The Director shall adopt
13 rules that require, prior to such hydraulic fracturing, the
14 owner or operator to perform a suitable mechanical integrity
15 test of the casing or of the casing-tubing annulus or other
16 mechanical integrity test methods using procedures that are

1 established by 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 were 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;

12 (2) the chemical compound name and Chemical Abstracts
13 Service (CAS) number for the main ingredient of each
14 additive used and all other Material Safety Data Sheets
15 (MSDS) constituents; and

16 (3) any other chemical additives by name or type.

17 (d) The owner or operator shall also provide a detailed
18 description of the well stimulation design, which shall
19 include:

20 (1) the surface treating pressure range;

21 (2) the maximum injection treating pressure; and

22 (3) the estimated or calculated fracture length and
23 fracture height.

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

1 (f) The injection of the volatile organic compounds
2 benzene, toluene, ethylbenzene, and xylene, also known as BTEX
3 compounds, or diesel, into an underground source of drinking
4 water is prohibited without exception. The proposed use of the
5 volatile organic compounds benzene, toluene, ethylbenzene, and
6 xylene, also known as BTEX compounds, or diesel for shale gas
7 extraction using hydraulic fracturing into hydrocarbon bearing
8 zones is only authorized with prior written approval of the
9 Director. Nothing in this Section shall be construed to
10 prohibit or to require prior approval for the use of produced
11 water or other stimulation fluids containing trace amounts of
12 BTEX in hydrocarbon bearing zones. Criteria for the
13 authorization shall be established by the Department by rule.

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

17 (1) the actual total well stimulation treatment volume
18 pumped;

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

22 (3) the actual surface pressure and rate at the end of
23 each fluid stage and the actual flush volume, rate, and
24 final pump pressure; and

25 (4) the instantaneous shut-in pressure, and the actual
26 15-minute and 30-minute shut-in pressures when these

1 pressure measurements are available.

2 (h) During the well stimulation operation, the owner or
3 operator shall monitor and record the annulus pressure at the
4 bradenhead. If intermediate casing has been set on the well
5 being stimulated, then the pressure in the annulus between the
6 intermediate casing and the production casing shall also be
7 monitored and recorded. A continuous record of the annulus
8 pressure during the well stimulation shall be submitted.

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

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

1 (k) Nothing in this Section shall be construed to require
2 or allow disclosure of trade secrets or commercial information
3 that is exempt from inspection or copying when provided to the
4 Department together with a claim made pursuant to subsection
5 (g) of Section 7 of the Freedom of Information Act that such
6 information is proprietary, privileged, or confidential and
7 that disclosure may cause competitive harm to the person or
8 business.

9 (l) The Department shall adopt all rules necessary to
10 enforce this Section.

11 (m) This Section applies only to the extraction of natural
12 gas from shale."