



Sen. Michael W. Frerichs

**Filed: 3/2/2011**

09700SB0664sam001

LRB097 04427 CEL 51877 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 using hydraulic  
8 fracturing.

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

1 procedures that are 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 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;

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

14 (3) the proposed rate or concentration for each  
15 additive;

16 (4) a copy of the contractor's proposed well  
17 stimulation program design; and

18 (5) any other information requested by the Director.

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

22 (1) the anticipated surface treating pressure range;

23 (2) the maximum injection treating pressure; and

24 (3) the estimated or calculated fracture length and  
25 fracture height.

26 (e) The Department shall post the information that it

1 receives under subsections (b), (c), and (d) on its Internet  
2 website for a period of not less than 5 years. In the interest  
3 of public health and safety, such information may not be  
4 claimed as a trade secret under this or any other Act.

5 (f) The injection of volatile organic compounds, such as  
6 benzene, toluene, ethylbenzene, and xylene, also known as BTEX  
7 compounds, or any petroleum distillates, into groundwater is  
8 prohibited without exception. The proposed use of volatile  
9 organic compounds, such as benzene, toluene, ethylbenzene, and  
10 xylene, also known as BTEX compounds, or any petroleum  
11 distillates, for well stimulation into hydrocarbon bearing  
12 zones is only authorized with prior written approval of the  
13 Director. Produced water containing trace amounts of naturally  
14 occurring petroleum distillates may be used as a stimulation  
15 fluid in hydrocarbon-bearing zones.

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

19 (1) the actual total well stimulation treatment volume  
20 pumped;

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

25 (3) the actual surface pressure and rate at the end of  
26 each fluid stage and the actual flush volume, rate, and

1       final pump pressure; and

2           (4) the instantaneous shut-in pressure, and the actual  
3       15-minute and 30-minute shut-in pressures when these  
4       pressure measurements are available.

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

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

22       (j) The owner or operator shall provide information to the  
23       Director as to the amounts, handling, and, if necessary,  
24       disposal at an identified appropriate disposal facility, or  
25       reuse of the well stimulation fluid load recovered during flow  
26       back, swabbing, or recovery from production facility vessels.

1 Storage of that fluid shall be protective of groundwater as  
2 demonstrated by the use of either tanks or lined pits."