

Sen. Michael W. Frerichs

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09700SB0664sam004 LRB097 04427 CEL 53596 a
AMENDMENT TO SENATE BILL 664
AMENDMENT NO Amend Senate Bill 664, AS AMENDED, by
replacing everything after the enacting clause with the
following:
"Section 5. The Illinois Oil and Gas Act is amended by
adding Section 6.5 as follows:
(225 ILCS 725/6.5 new)
Sec. 6.5. Extraction of natural gas from shale using
hydraulic fracturing.
(a) Each owner or operator that begins extracting natural
gas from shale shall report to the Department the information
specified in subsections (b), (c), and (d) within 30 days after
hydraulic fracturing stimulation. The Director shall adopt
rules that require, prior to such hydraulic fracturing, the
owner or operator to perform a suitable mechanical integrity
test of the casing or of the casing-tubing annulus or other

1	mechanical integrity test methods using procedures that are
2	established by administrative rule.
3	(b) The owner or operator shall provide geological names, a
4	geological description, and the depth of the formation into
5	which well stimulation fluids were injected.
6	(c) The owner or operator shall provide detailed
7	information to the Director concerning the base stimulation
8	fluid source. The owner, operator, or service company shall
9	also provide to the Director, for each stage of the well
10	stimulation program, the following:
11	(1) each stimulation fluid identified by additive
12	type; and
13	(2) the chemical compound name and Chemical Abstracts
14	Service (CAS) number for each additive used.
15	(d) The owner or operator shall also provide a detailed
16	description of the well stimulation design, which shall
17	include:
18	(1) the surface treating pressure range;
19	(2) the maximum injection treating pressure; and
20	(3) the estimated or calculated fracture length and
21	fracture height.
22	(e) The Department shall post the information that it
23	receives under subsections (b), (c), and (d) on its Internet
24	website for a period of not less than 5 years.
25	(f) The injection of volatile organic compounds, such as
26	benzene, toluene, ethylbenzene, and xylene, also known as BTEX

1	compounds, or any petroleum distillates, into an underground
2	source of drinking water is prohibited without exception. The
3	proposed use of volatile organic compounds, such as benzene,
4	toluene, ethylbenzene, and xylene, also known as BTEX
5	compounds, or any petroleum distillates, for shale gas
6	extraction using hydraulic fracturing into hydrocarbon bearing
7	zones is only authorized with prior written approval of the
8	Director. Produced water containing trace amounts of naturally
9	occurring petroleum distillates may be used as a stimulation
10	fluid in hydrocarbon-bearing zones. Criteria for the
11	authorization shall be established by the Department by rule.
12	(g) In addition to any other information that it must
13	provide, the owner, operator, or service company shall provide
14	the Director the following post well stimulation detail:
15	(1) the actual total well stimulation treatment volume
16	pumped;
17	(2) detail as to each fluid stage pumped, including
18	actual volume by fluid stage, proppant rate or
19	concentration, actual chemical additive name and type;
20	(3) the actual surface pressure and rate at the end of
21	each fluid stage and the actual flush volume, rate, and
22	final pump pressure; and
23	(4) the instantaneous shut-in pressure, and the actual
24	15-minute and 30-minute shut-in pressures when these
25	pressure measurements are available.
26	(h) During the well stimulation operation, the owner or

operator shall monitor and record the annulus pressure at the bradenhead. If intermediate casing has been set on the well being stimulated, then the pressure in the annulus between the intermediate casing and the production casing shall also be monitored and recorded. A continuous record of the annulus pressure during the well stimulation shall be submitted.

(i) If, during the stimulation, the annulus pressure 7 increases by more than 500 pounds per square inch gauge (psig) 8 9 compared to the pressure immediately preceding the stimulation, then the owner or operator shall verbally notify 10 11 the Director as soon as practical but no later than 24 hours 12 following the incident and must complete in a timely manner any 13 corrective action identified by the Department. The owner or 14 operator shall include a report containing all details 15 pertaining to the incident, including corrective actions 16 taken.

(j) The owner or operator shall provide information to the 17 Director as to the amounts, handling, and, if necessary, 18 19 disposal at an identified appropriate disposal facility, or 20 reuse of the well stimulation fluid load recovered during flow 21 back, swabbing, or recovery from production facility vessels. 22 Storage of that fluid shall be protective of an underground 23 source of drinking water as demonstrated by the use of either 24 tanks or lined pits. 25 (k) Nothing in this Section shall be construed to allow the

26 <u>Director to require the disclosure of trade secrets as defined</u>

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1	in the Illinois Trade Secrets Act.
2	(1) The Department shall adopt all rules necessary to
3	enforce this Section.
4	(m) This Section applies only to the extraction of natural
5	gas from shale.".