

# DON'T FRACK PEI

Wind, Water, Sun – Energy for the Long Run


# DON'T FRACK WITH OUR WATER!

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## Our News

For news from other anti-fracking groups, [click here](#)

## PEI Petition read in The House of Commons

 November 22, 2013

On November 20th, Sean Casey MP presented a petition in the House of Commons. The petition was signed by 25 supporters of Don't Frack PEI. Here is the transcript:

### HYDRAULIC FRACKING

Mr. Sean Casey (Charlottetown, Lib.): Mr. Speaker, I rise today to present a petition on behalf of several residents of Prince Edward Island, including some from the great riding of Charlottetown. The petitioners are concerned about the practice known as high volume hydraulic fracking. This practice is of particular concern to us in Prince Edward Island because 100% of our drinking water comes from groundwater.

The petitioners point out that there is no definitive impartial report that can be used to either support or denounce fracking, so they are asking the government to have the Standing Committee on Environment and Sustainable Development study high-volume hydraulic fracking, and in particular its potential impacts on drinking water resources, air quality, human health, and the health of aquatic and terrestrial eco-systems, as well as the potential for seismic risks.

If you would like to collect 25 signatures, and present a petition to your (or any) MP, [you can download it here](#).

## Large protest in NB

### Don't Frack PEI

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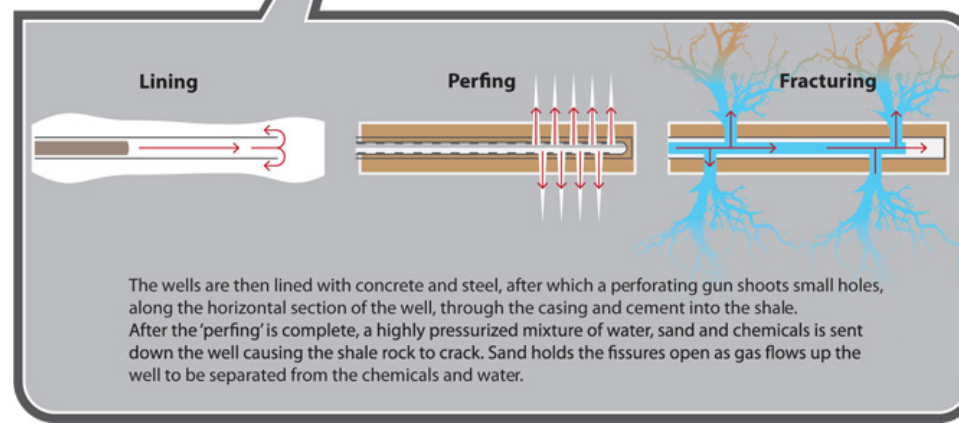
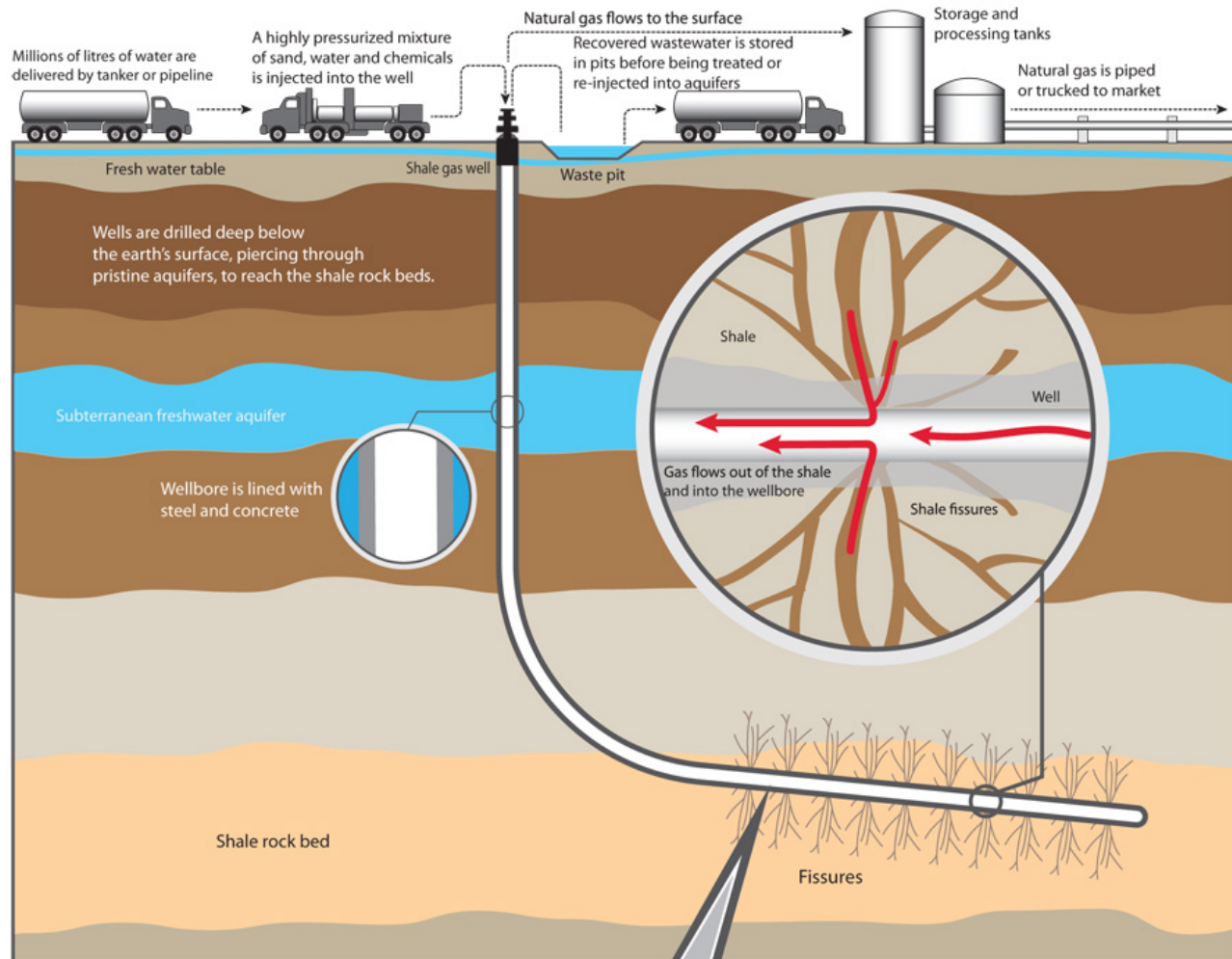


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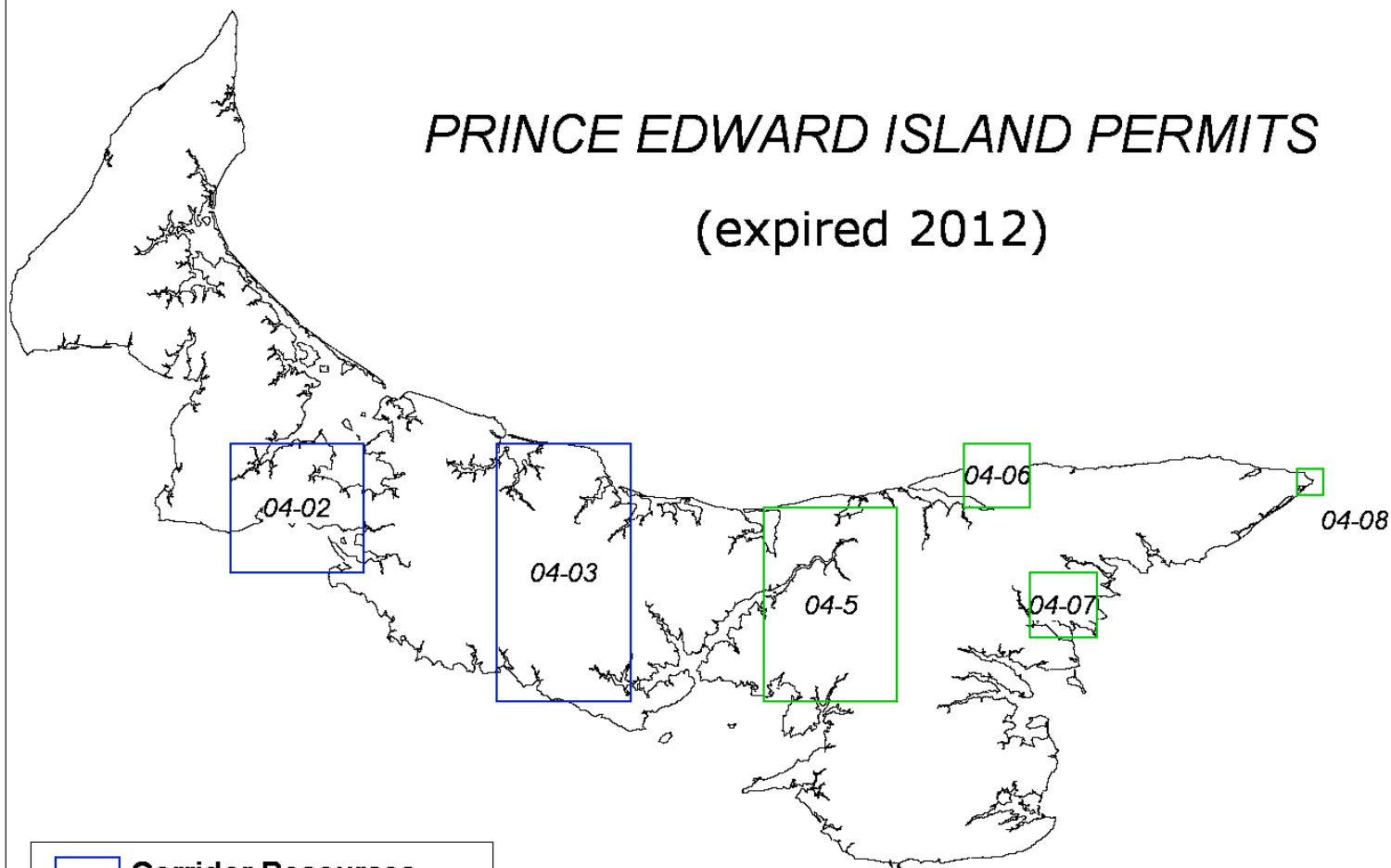
☐ Fracking  
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# PRINCE EDWARD ISLAND PERMITS (expired 2012)



94-01

04-02

04-03

04-5

04-06

04-07

04-08

- Corridor Resources
- PetroWorth
- BP Canada Energy Co.

*This map is a graphical representation only  
and is not intended for legal description or to  
calculate exact land dimensions.*





**Fracking Well Pads in Texas**





**Trucks transporting Fracking Water**

| <u>Chemical Name</u>                      | <u>CAS</u>  | <u>Chemical Purpose</u>                                              | <u>Product Function</u> |                                                                                                                            |             |                                                                                                  |                    |
|-------------------------------------------|-------------|----------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------|--------------------|
| Hydrochloric Acid                         | 007647-01-0 | Helps dissolve minerals and initiate cracks in the rock              | Acid                    | Guar Gum                                                                                                                   | 009000-30-0 | Thickens the water in order to suspend the sand                                                  | Gelling Agent      |
|                                           |             |                                                                      |                         | Petroleum Distillate                                                                                                       | 064741-85-1 | Carrier fluid for guar gum in liquid gels                                                        | Gelling Agent      |
|                                           |             |                                                                      |                         | Hydrotreated Light Petroleum Distillate                                                                                    | 064742-47-8 | Carrier fluid for guar gum in liquid gels                                                        | Gelling Agent      |
| Glutaraldehyde                            | 000111-30-8 | Eliminates bacteria in the water that produces corrosive by-products | Biocide                 | Methanol                                                                                                                   | 000067-56-1 | Product stabilizer and / or winterizing agent.                                                   | Gelling Agent      |
| Quaternary Ammonium Chloride              | 012125-02-9 | Eliminates bacteria in the water that produces corrosive by-products | Biocide                 | Polysaccharide Blend                                                                                                       | 068130-15-4 | Thickens the water in order to suspend the sand                                                  | Gelling Agent      |
| Quaternary Ammonium Chloride              | 061789-71-1 | Eliminates bacteria in the water that produces corrosive by-products | Biocide                 | Ethylene Glycol                                                                                                            | 000107-21-1 | Product stabilizer and / or winterizing agent.                                                   | Gelling Agent      |
| Tetakis Hydroxymethyl-Phosphonium Sulfate | 055566-30-8 | Eliminates bacteria in the water that produces corrosive by-products | Biocide                 | Citric Acid                                                                                                                | 000077-92-9 | Prevents precipitation of metal oxides                                                           | Iron Control       |
|                                           |             |                                                                      |                         | Acetic Acid                                                                                                                | 000064-19-7 | Prevents precipitation of metal oxides                                                           | Iron Control       |
|                                           |             |                                                                      |                         | Thioglycolic Acid                                                                                                          | 000068-11-1 | Prevents precipitation of metal oxides                                                           | Iron Control       |
|                                           |             |                                                                      |                         | Sodium Erythorbate                                                                                                         | 006381-77-7 | Prevents precipitation of metal oxides                                                           | Iron Control       |
| Ammonium Persulfate                       | 007727-54-0 | Allows a delayed break down of the gel                               | Breaker                 |                                                                                                                            |             |                                                                                                  |                    |
| Sodium Chloride                           | 007647-14-5 | Product Stabilizer                                                   | Breaker                 | Lauryl Sulfate                                                                                                             | 000151-21-3 | Used to prevent the formation of emulsions in the fracture fluid                                 | Non-Emulsifier     |
| Magnesium Peroxide                        | 014452-57-4 | Allows a delayed break down the gel                                  | Breaker                 | Isopropanol                                                                                                                | 000067-63-0 | Product stabilizer and / or winterizing agent.                                                   | Non-Emulsifier     |
| Magnesium Oxide                           | 001309-48-4 | Allows a delayed break down the gel                                  | Breaker                 | Ethylene Glycol                                                                                                            | 000107-21-1 | Product stabilizer and / or winterizing agent.                                                   | Non-Emulsifier     |
| Calcium Chloride                          | 010043-52-4 | Product Stabilizer                                                   | Breaker                 |                                                                                                                            |             |                                                                                                  |                    |
| Choline Chloride                          | 000067-48-1 | Prevents clays from swelling or shifting                             | Clay Stabilizer         | Sodium Hydroxide                                                                                                           | 001310-73-2 | Adjusts the pH of fluid to maintains the effectiveness of other components, such as crosslinkers | pH Adjusting Agent |
| Tetramethyl ammonium chloride             | 000075-57-0 | Prevents clays from swelling or shifting                             | Clay Stabilizer         |                                                                                                                            |             |                                                                                                  |                    |
| Sodium Chloride                           | 007647-14-5 | Prevents clays from swelling or shifting                             | Clay Stabilizer         | Potassium Hydroxide                                                                                                        | 001310-58-3 | Adjusts the pH of fluid to maintains the effectiveness of other components, such as crosslinkers | pH Adjusting Agent |
| Isopropanol                               | 000067-63-0 | Product stabilizer and / or winterizing agent                        | Corrosion Inhibitor     |                                                                                                                            |             |                                                                                                  |                    |
| Methanol                                  | 000067-56-1 | Product stabilizer and / or winterizing agent                        | Corrosion Inhibitor     | Acetic Acid                                                                                                                | 000064-19-7 | Adjusts the pH of fluid to maintains the effectiveness of other components, such as crosslinkers | pH Adjusting Agent |
| Formic Acid                               | 000064-18-6 | Prevents the corrosion of the pipe                                   | Corrosion Inhibitor     |                                                                                                                            |             |                                                                                                  |                    |
| Acetaldehyde                              | 000075-07-0 | Prevents the corrosion of the pipe                                   | Corrosion Inhibitor     | Sodium Carbonate                                                                                                           | 000497-19-8 | Adjusts the pH of fluid to maintains the effectiveness of other components, such as crosslinkers | pH Adjusting Agent |
| Petroleum Distillate                      | 064741-85-1 | Carrier fluid for borate or zirconate crosslinker                    | Crosslinker             |                                                                                                                            |             |                                                                                                  |                    |
| Hydrotreated Light Petroleum Distillate   | 064742-47-8 | Carrier fluid for borate or zirconate crosslinker                    | Crosslinker             | Potassium Carbonate                                                                                                        | 000584-08-7 | Adjusts the pH of fluid to maintains the effectiveness of other components, such as crosslinkers | pH Adjusting Agent |
| Potassium Metaborate                      | 013709-94-9 | Maintains fluid viscosity as temperature increases                   | Crosslinker             |                                                                                                                            |             |                                                                                                  |                    |
| Triethanolamine Zirconate                 | 101033-44-7 | Maintains fluid viscosity as temperature increases                   | Crosslinker             |                                                                                                                            |             |                                                                                                  |                    |
| Sodium Tetraborate                        | 001303-96-4 | Maintains fluid viscosity as temperature increases                   | Crosslinker             | Copolymer of Acrylamide and Sodium Acrylate                                                                                | 025987-30-8 | Prevents scale deposits in the pipe                                                              | Scale Inhibitor    |
| Boric Acid                                | 001333-73-9 | Maintains fluid viscosity as temperature increases                   | Crosslinker             |                                                                                                                            |             |                                                                                                  |                    |
| Zirconium Complex                         | 113184-20-6 | Maintains fluid viscosity as temperature increases                   | Crosslinker             | Sodium Polycarboxylate                                                                                                     | N/A         | Prevents scale deposits in the pipe                                                              | Scale Inhibitor    |
| Borate Salts                              | N/A         | Maintains fluid viscosity as temperature increases                   | Crosslinker             | Phosphonic Acid Salt                                                                                                       | N/A         | Prevents scale deposits in the pipe                                                              | Scale Inhibitor    |
| Ethylene Glycol                           | 000107-21-1 | Product stabilizer and / or winterizing agent.                       | Crosslinker             |                                                                                                                            |             |                                                                                                  |                    |
| Methanol                                  | 000067-56-1 | Product stabilizer and / or winterizing agent.                       | Crosslinker             | Lauryl Sulfate                                                                                                             | 000151-21-3 | Used to increase the viscosity of the fracture fluid                                             | Surfactant         |
|                                           |             |                                                                      |                         | Ethanol                                                                                                                    | 000064-17-5 | Product stabilizer and / or winterizing agent.                                                   | Surfactant         |
| Polyacrylamide                            | 009003-05-8 | "Slicks" the water to minimize friction                              | Friction Reducer        | Naphthalene                                                                                                                | 000091-20-3 | Carrier fluid for the active surfactant ingredients                                              | Surfactant         |
| Petroleum Distillate                      | 064741-85-1 | Carrier fluid for polyacrylamide friction reducer                    | Friction Reducer        | Methanol                                                                                                                   | 000067-56-1 | Product stabilizer and / or winterizing agent.                                                   | Surfactant         |
| Hydrotreated Light Petroleum Distillate   | 064742-47-8 | Carrier fluid for polyacrylamide friction reducer                    | Friction Reducer        | Isopropyl Alcohol                                                                                                          | 000067-63-0 | Product stabilizer and / or winterizing agent.                                                   | Surfactant         |
| Methanol                                  | 000067-56-1 | Product stabilizer and / or winterizing agent.                       | Friction Reducer        | 2-Butoxyethanol                                                                                                            | 000111-76-2 | Product stabilizer                                                                               | Surfactant         |
| Ethylene Glycol                           | 000107-21-1 | Product stabilizer and / or winterizing agent.                       | Friction Reducer        | One of the problems associated with identifying chemicals is that some chemicals have multiple names. For example Ethylene |             |                                                                                                  |                    |

## Some of the Chemicals used in Fracking





**Fracking Waste Evaporation Pit – Nova Scotia**



'To Fracking!'

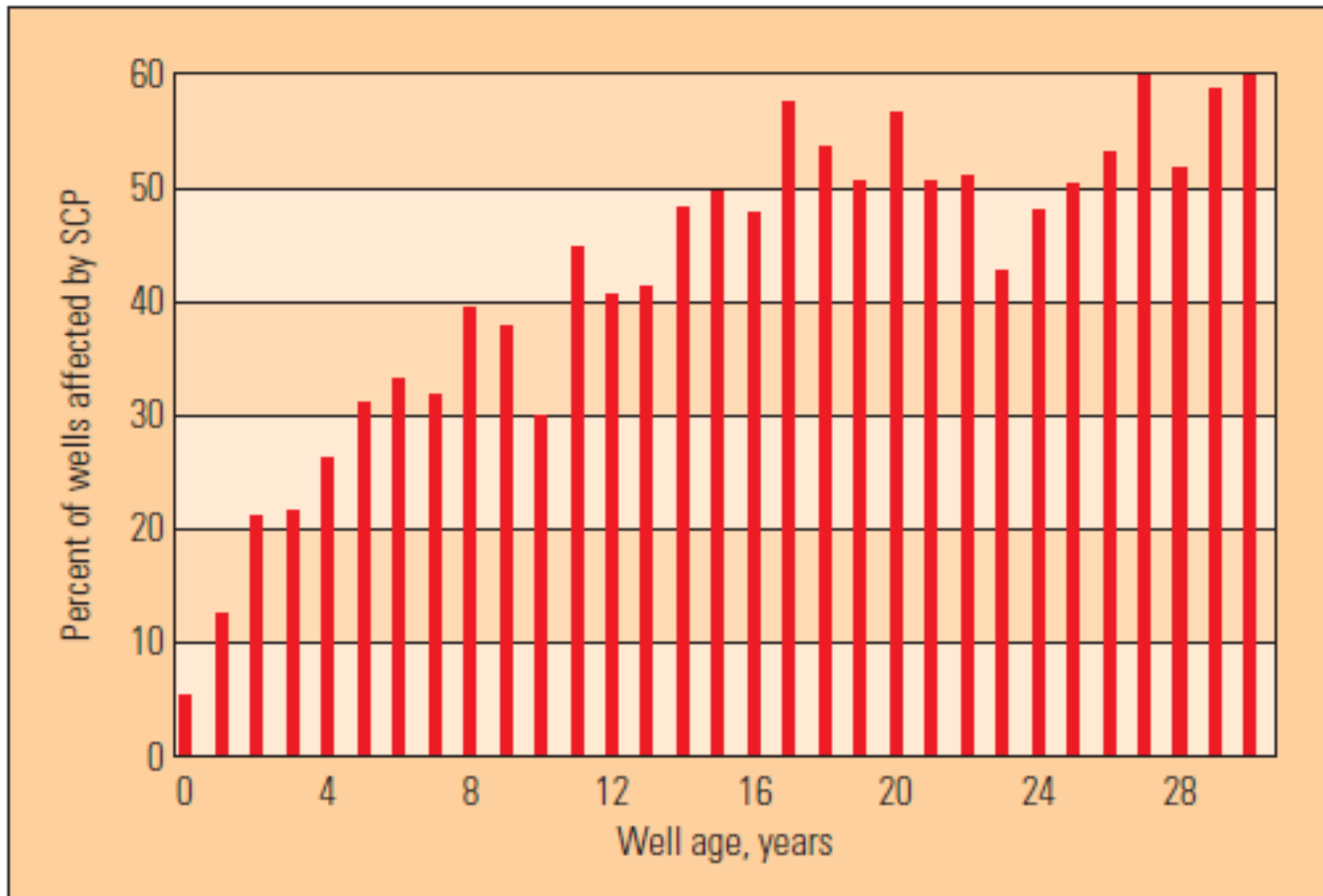


Chattanooga Times Free Press *Bennett*





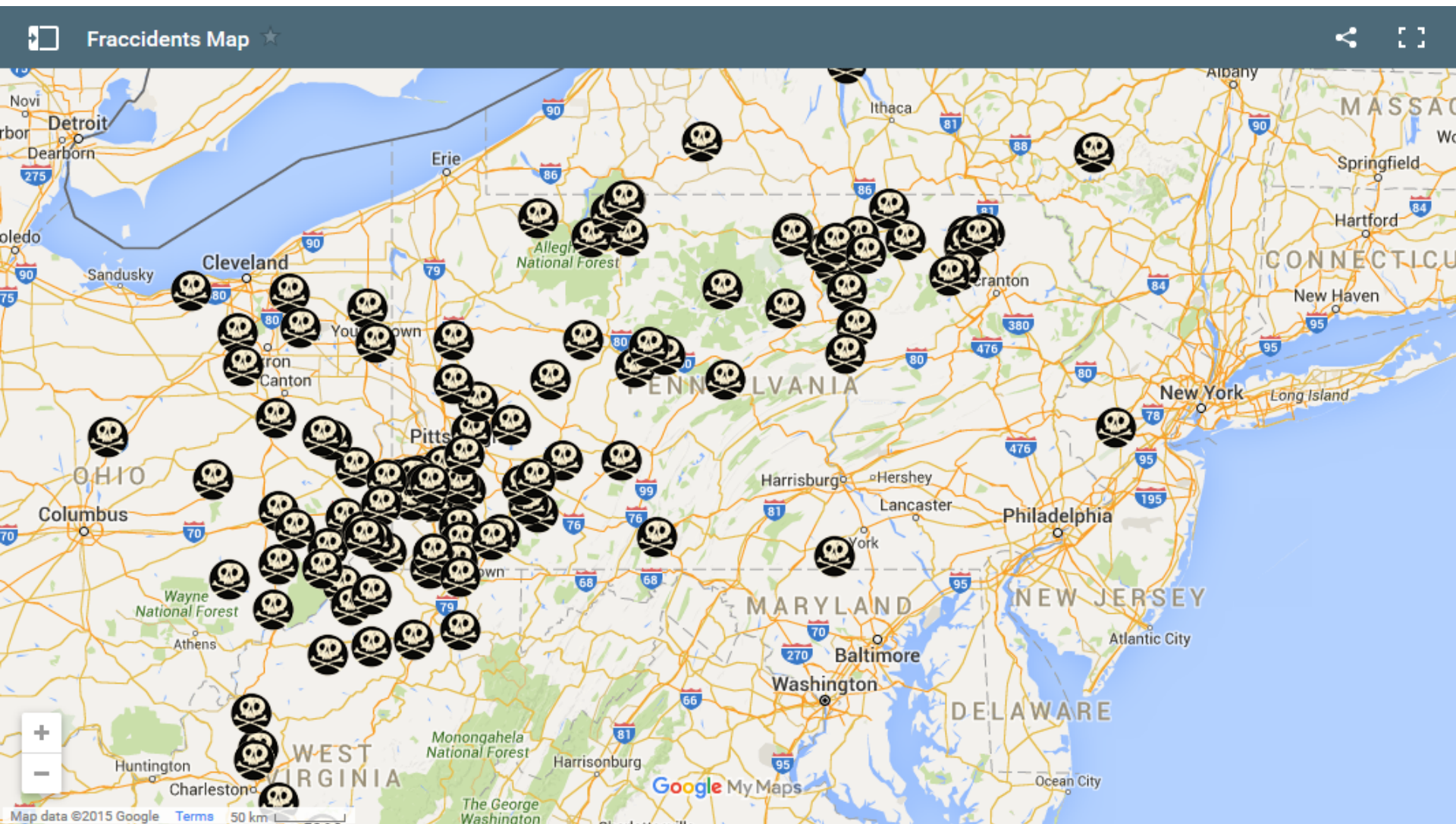
**Fracking Chemical Truck Accident in Ohio, 2012**



^ Wells with SCP by age. Statistics from the United States Mineral Management Service (MMS) show the percentage of wells with SCP for wells in the outer continental shelf (OCS) area of the Gulf of Mexico, grouped by age of the wells. These data do not include wells in state waters or land locations.

## Well Casing Failure Rates – Industry Data





## Recent Fracking Accidents in Pennsylvania

**Thank you.**

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