

What goes in and out of
HYDRAULIC
FRACTURING

TO THE SITE

Each gas well requires an average of **400 tanker trucks** to carry water and supplies to and from the site.

It takes **1-8 million gallons of water** to complete each fracturing job.

FRACTURING SITE

The water brought in is mixed with sand and chemicals to create fracking fluid. **Approximately 40,000 gallons of chemicals** are used per fracturing

FRACKING FLUID

Up to **600 chemicals** are used in fracking fluid, including known carcinogens and toxins such as...

Uranium, Mercury, Ethylene Glycol, Methanol, Hydrochloric Acid, Formaldehyde, lead, radium, benzene, butane, acetone.

DOWN 10,000FT

The fracking fluid is then pressure injected into the ground through a drilled pipeline.

THE MATH

500,000 *Active gas wells in the US*

X

8 million *Gallons of water per fracking*

X

18 *Times a well can be fracked =*

72 trillion gallons of water and
360 billion gallons of chemicals
needed to run our current gas wells.

SHALE FRACTURING

The mixture reaches the end of the well where the high pressure causes the nearby shale rock to crack, creating fissures where **natural gas** flows into the well.

CONTAMINATION

During this process, **methane gas and toxic chemicals** leach out from the system and contaminate nearby groundwater.

Methane concentrations are **17x higher** in drinking-water wells near fracturing sites than in normal wells.

DRINKING WATER

Contaminated well water is used for drinking water for nearby cities and towns.

There have been over **1,000** documented cases of water contamination next to areas of gas drilling as well as cases of **sensory, respiratory, and neurological damage** due to ingested contaminated water.

LEFT BEHIND

Only 30-50% of the fracturing fluid is recovered, the rest of the toxic fluid is left in the ground and is not biodegradable.

The waste fluid is left in open air pits to evaporate, releasing **harmful VOC's** (volatile organic compounds) into the atmosphere, creating contaminated air, acid rain, and ground level ozone.

SOURCES OF CONTAMINATION

- * Cement casings fail and leak -over 5% immediately and 50% in 30 years
- * Neglected surface pumps corroding and leaking
- * Methane released from fracturing & not captured, rises up Thru rock into the aquifer - and into the atmosphere
- * Lined pits storing waste fluids, leak and evaporate
- * Sometimes waste fluids are injected deep within the earth. Are suspected of triggering earthquakes

RESOURCES

Hydraulic Fracturing 101

Energy from shale.org

Gasland The Movie

Marcellus Shale Coalition

Unpacking Health Hazards in Fracking's Chemical Cocktail

<http://www.dangersoffracking.com/>

Fracking An Inconvenient Truth

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