



CITIZEN CONCERNS

WHAT DO PEOPLE CARE ABOUT?

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HEADLINES SHOW CONCERN

Boom in gas drilling fuels contamination concerns The Christian Science Monitor / February 5, 2009

Colorado's suburban homeowners face invasion of oil and gas wells The Denver Post / July 17, 2011

Does Natural-Gas Drilling Endanger Water Supplies? BusinessWeek, November 11, 2008

Drilling process causes water supply alarm ProPublica, November 17, 2008

Fracking Moratorium Protects Environment The Morning Call, July 16, 2011



**Concern for
drinking
water safety**

Concern for the loss of water supply independence and self-sufficiency



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CONCERN

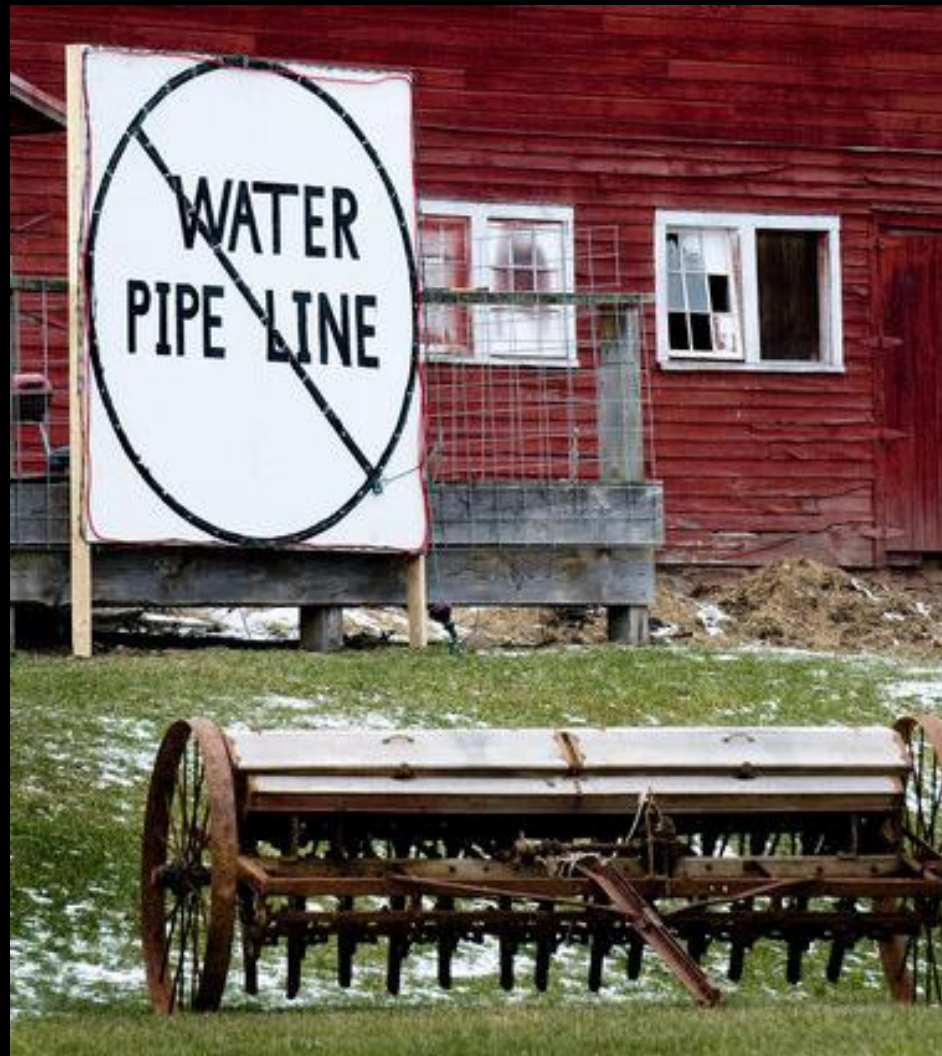
**If wells “go
bad”
connection
to a utility
supply may
NOT be an
acceptable
option**



© Schramm

Dimmock, PA November 2010

“Don’t want a pipeline!”



Concern for quality of stock water

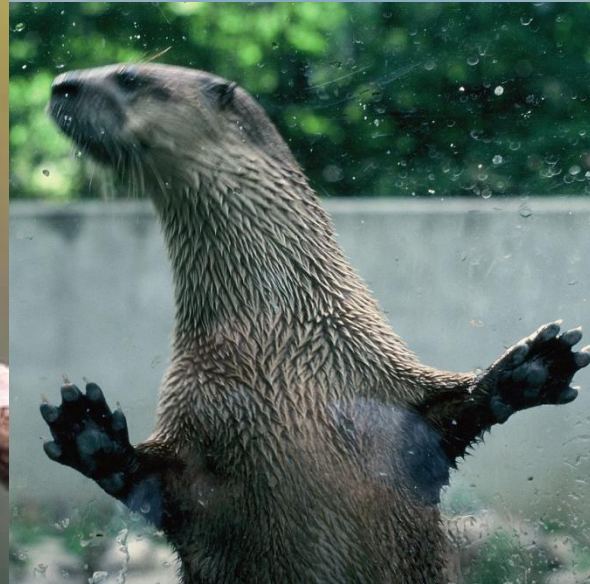


Concern for recreational sport fishing



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Concern for aquatic habitat

CONCERN FOR WILDLIFE WELFARE



Upper Green River , WY, January, 2010

CONCERN ABOUT METHANE



Methane and hydraulic fracturing

Albany, NY, April 2011

The scientists confirmed their finding by comparing the dissolved gas chemistry of water samples to the gas chemistry profiles of shale-gas wells in the region, using data from the Pennsylvania Department of Environmental Protection.

Proceedings of National Academy of Sciences

www.pnas.org/cgi/doi/10.1073/pnas.1100682108 **contamination of drinking water near gas-well drilling**

CONCERN ABOUT TRAFFIC



Bradford County, PA

CONCERN – AIR QUALITY



INCREASE IN ASTHMA RATE IN TEXAS

“I’m not an activist, an alarmist, a Democrat, environmentalist or anything like that,” Mrs. Xxxx said. “I’m just a person who isn’t able to manage the health of my family because of all this drilling.”

CONCERN ABOUT VISUAL IMPACT ON LANDSCAPE

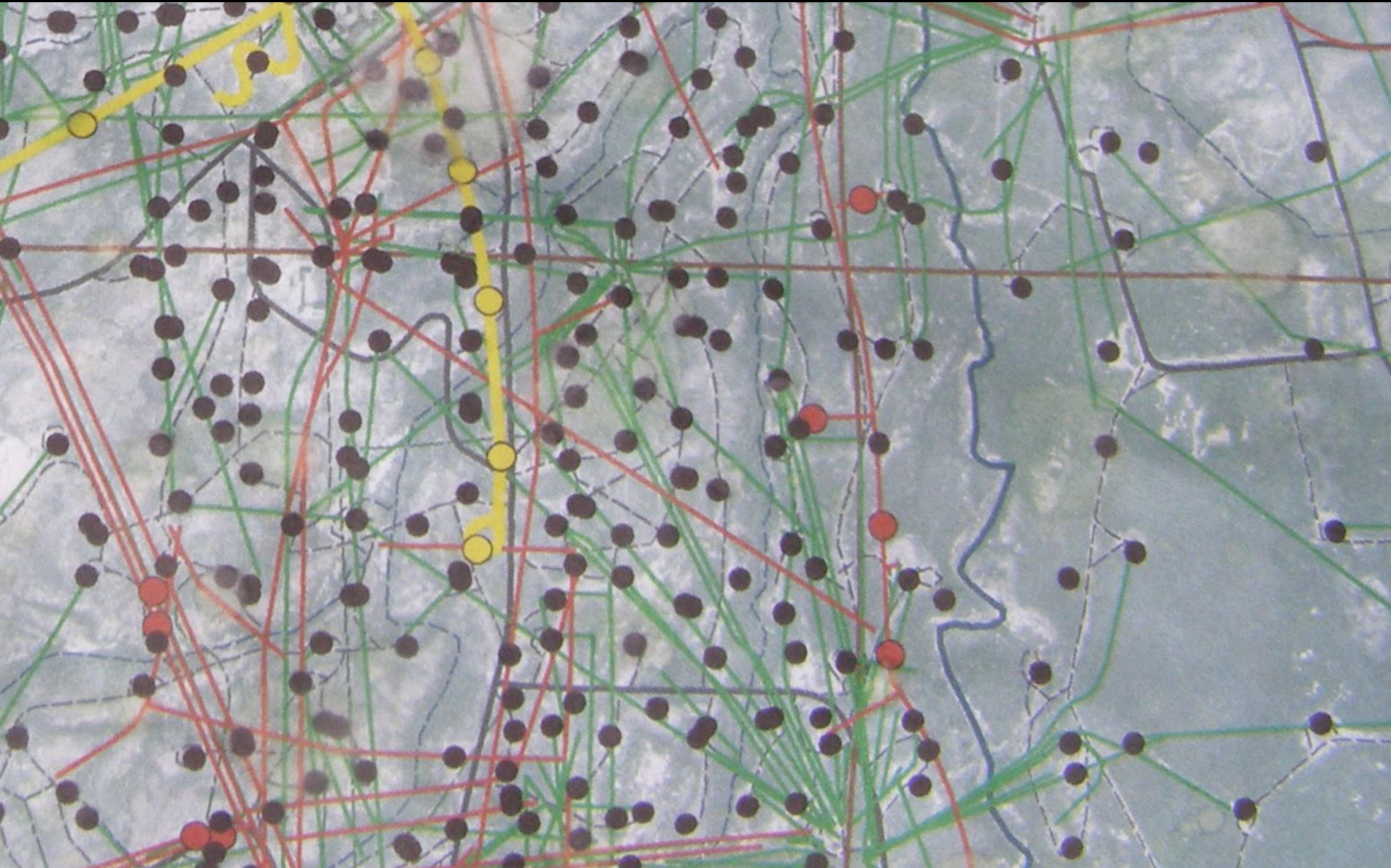


Roan Plateau Oil and gas
drilling near the Roan Plateau.
(Photo/Ecoflight.info)

CONCERN: upward migrations in abandoned, (location unknown) oil and gas wells



CONCERN - OIL WELLS AND PIPELINES IMPACT ON THE ENVIRONMENT



CONCERN:

Rock units often NOT like layer cakes

RISK: Upward fluid migration from pressure or induced recharge from dewatering



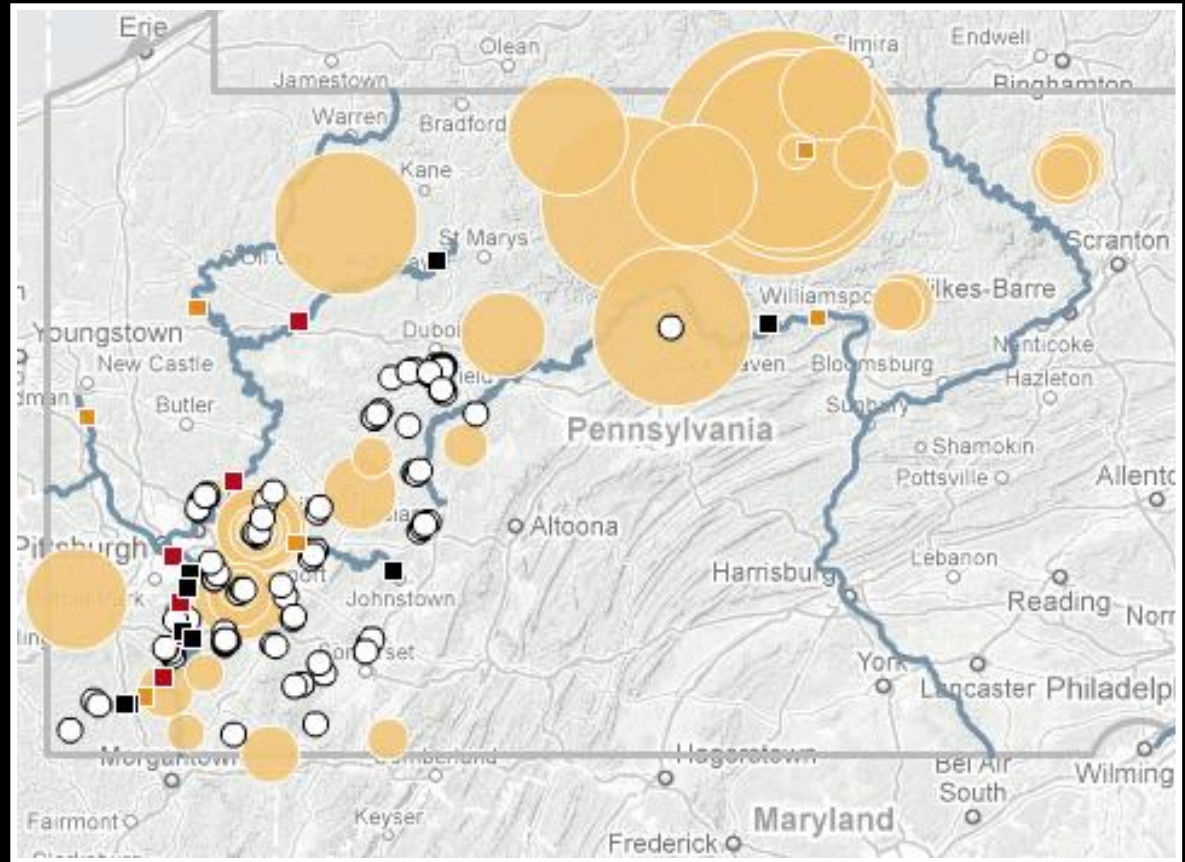
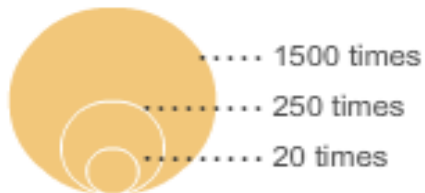
CONCERN ABOUT RADIUM

The New York Times , Published: February 26, 2011

Pennsylvania

149 wells tested
42 wells exceeded
federal drinking
water standard for
radium.

Exceedence
levels:



CONCERN ABOUT PIPELINE SAFETY

Natural gas pipeline explosion occurred because of corrosion.

Sept 14th, 2008 near Appomattox, Virginia



CONCERN ABOUT POLITICAL PRESSURE

“Findings were altered because of pressure from the Office of Legal Counsel of the White House..”

“It was shameful,” Weston Wilson, the E.P.A. whistle-blower, said in a recent interview about the study. “ five of the seven members of that study’s peer review panel were current or former employees of the oil and gas industry.”

IAN URBINA, NY Times, Published: March 3, 2011

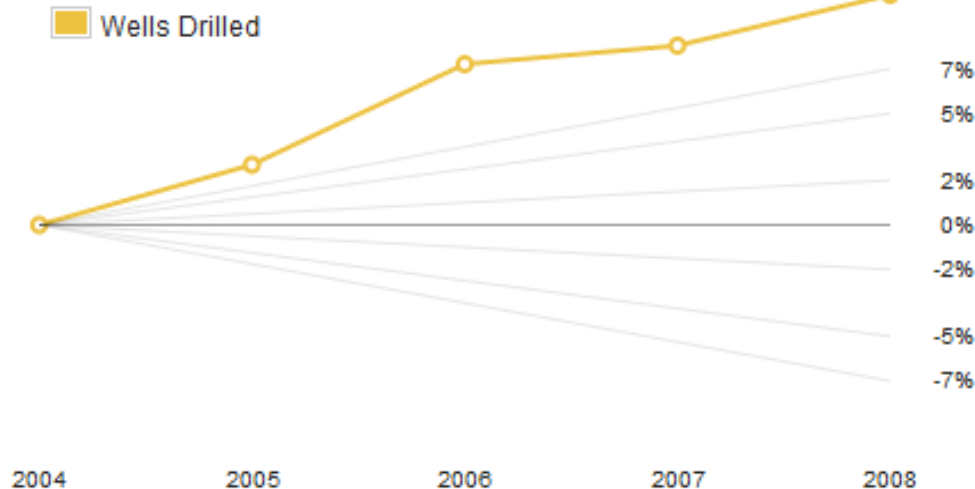
CONCERN ABOUT REGULATORY STAFF EXPERTISE AND WORKLOAD

**Gas Drilling
increase
41%**

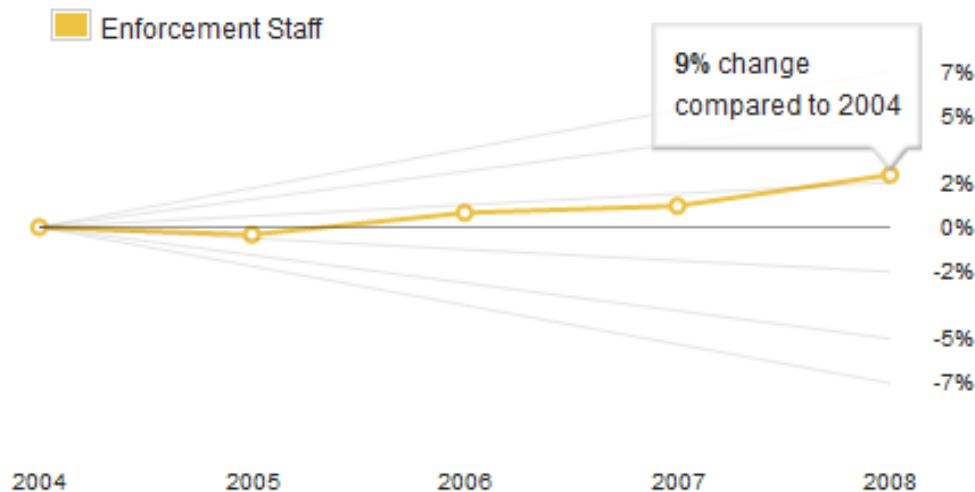
**Regulatory Staff
increase
9%**

ProPublica, Dec. 30, 2009

Wells Drilled: Change Since 2004



Enforcement Staff: Change Since 2004





**The April 2010 Gulf accident
was a PR disaster for energy
industry claims of drilling
safety**