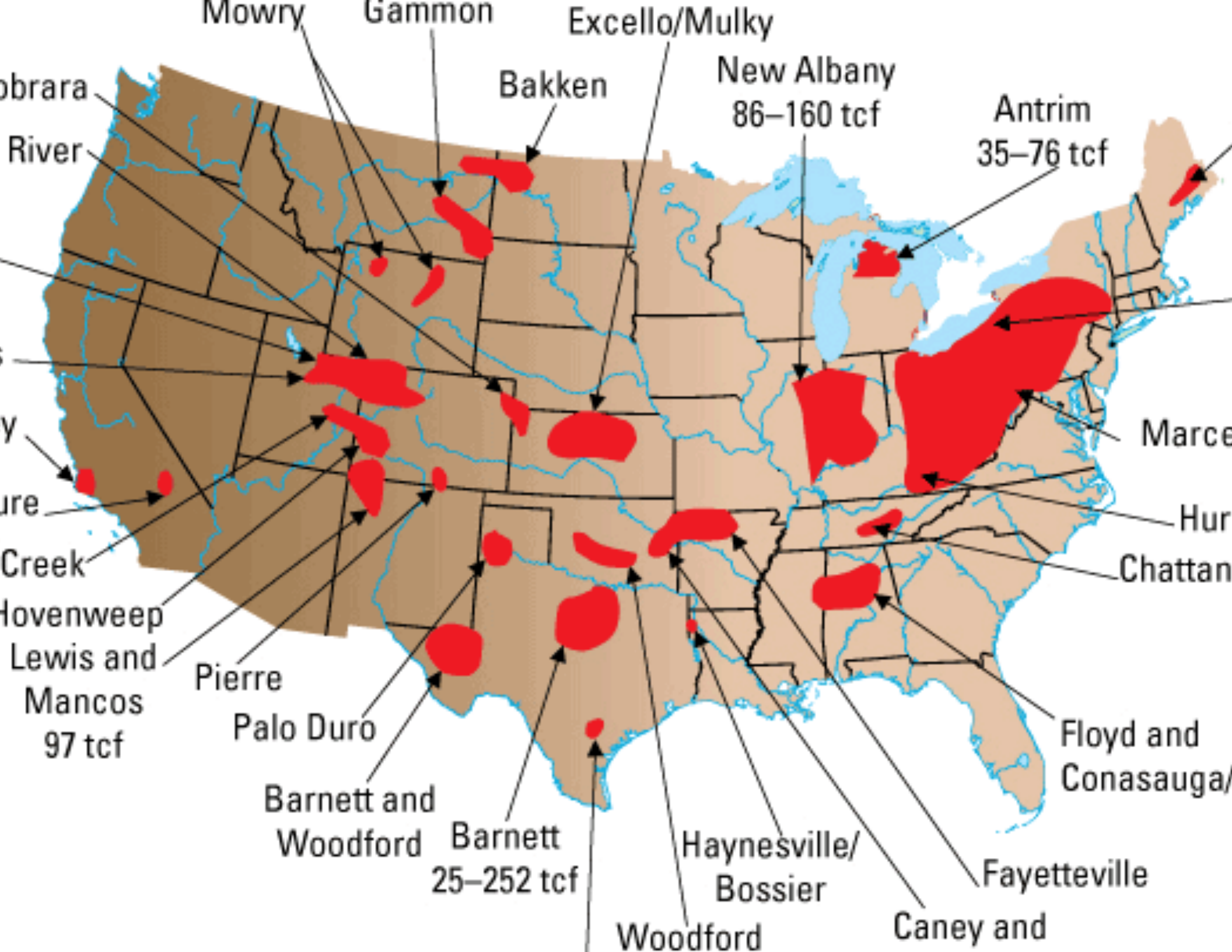


# Citizens response

king for oil and gas risks public health and the environment

Wes Wilson, EPA Whistleblower

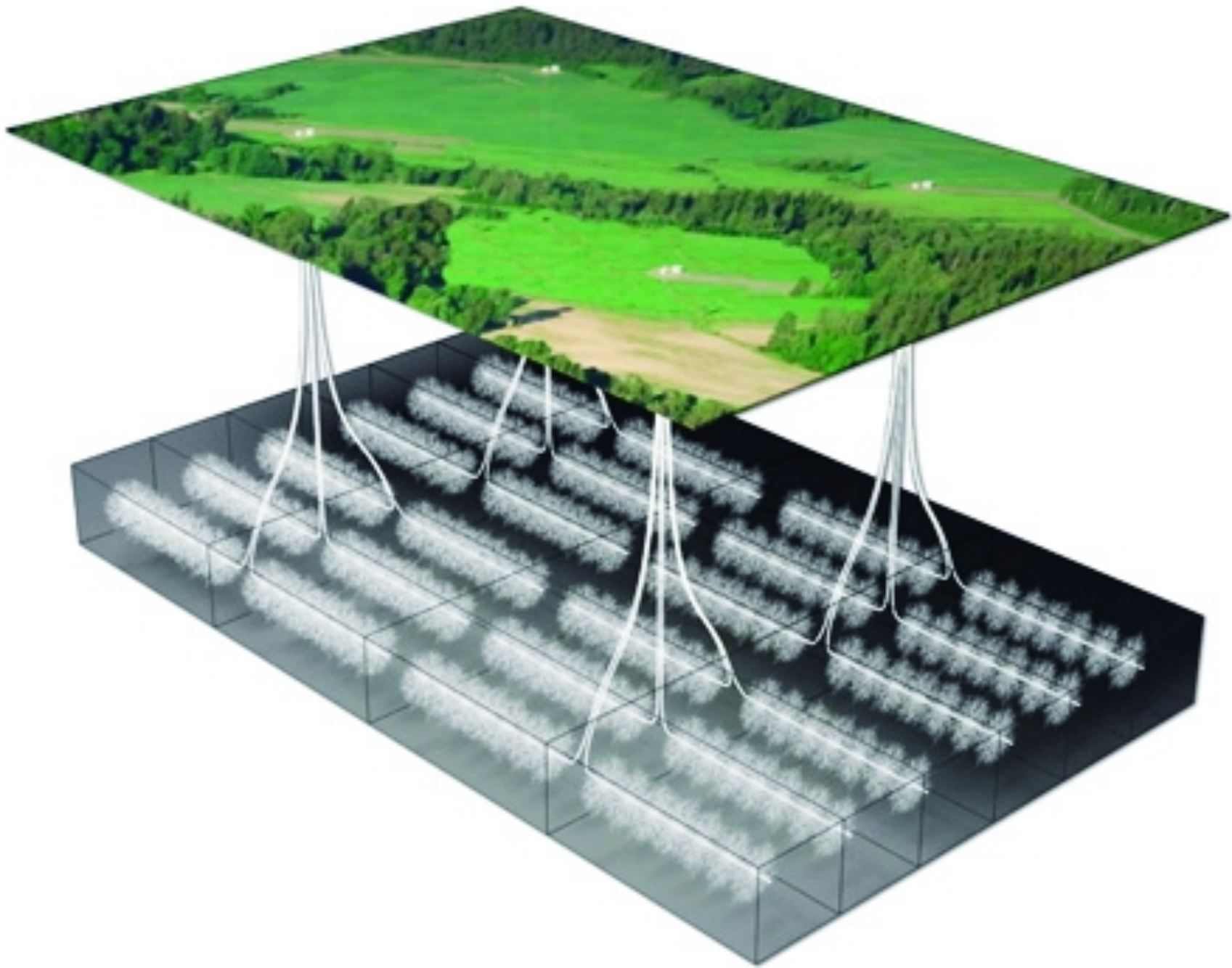




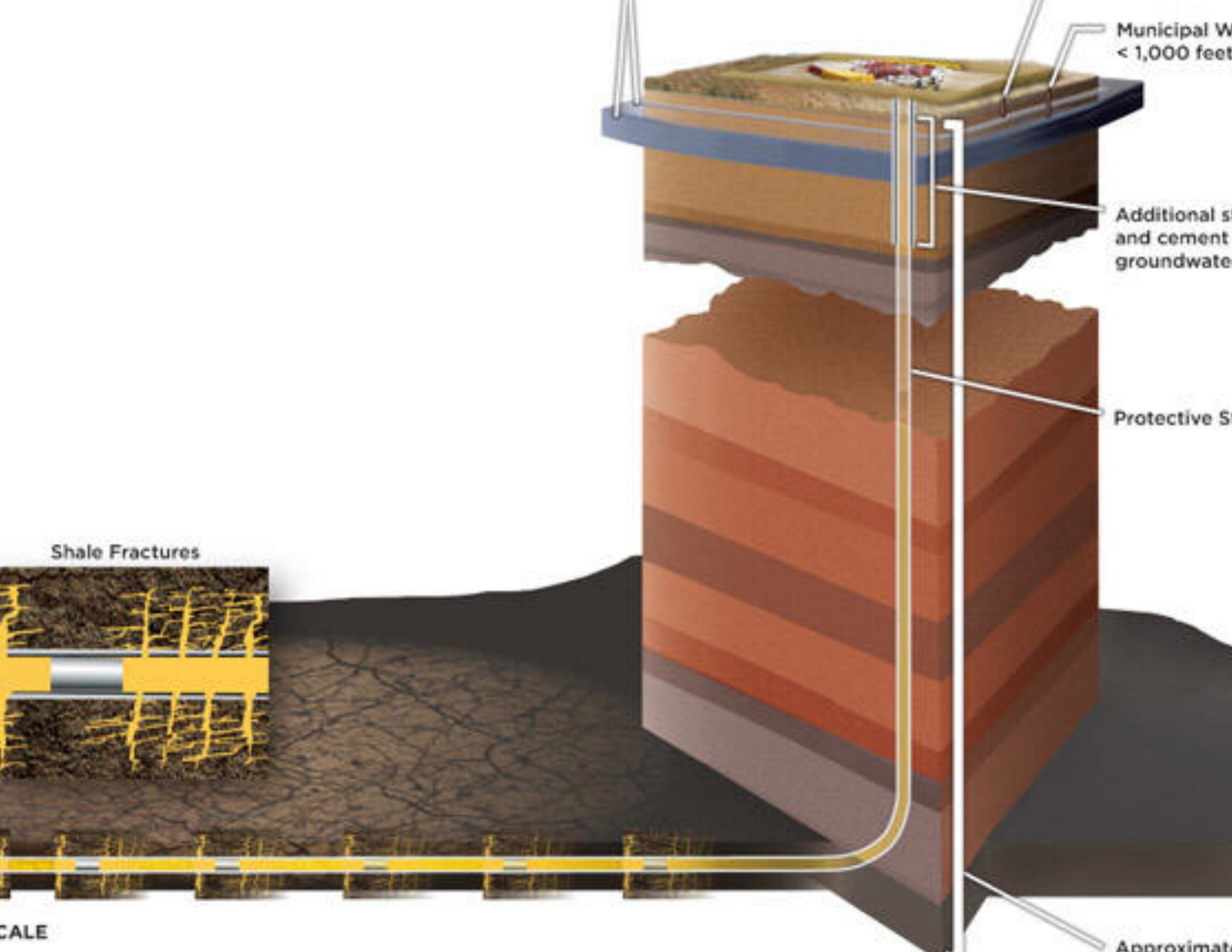


Jonah Gas Field, Wyoming

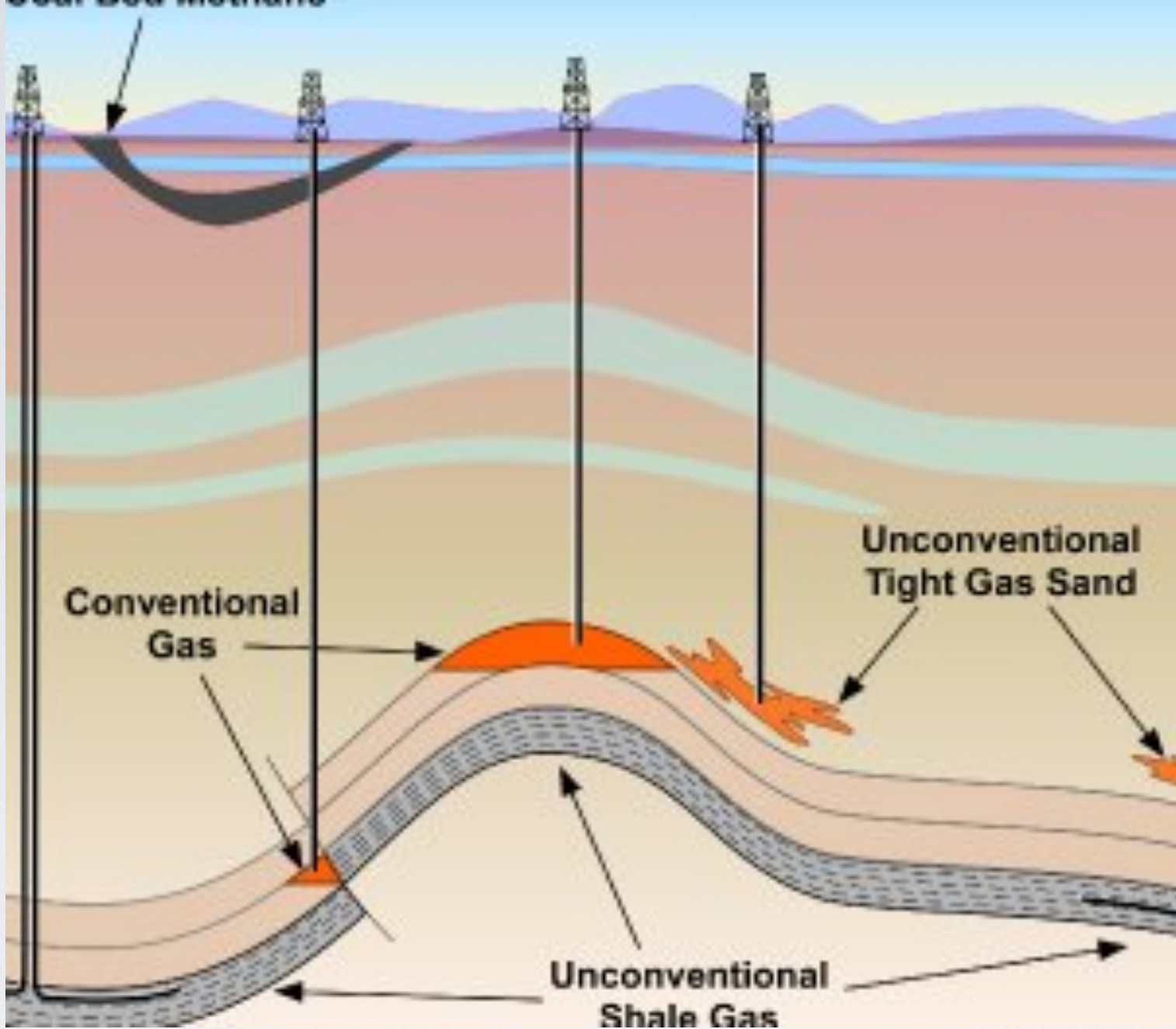




6 Wells per pad







No dry wells in shale and tight sands

# Pathways from bad wells and accidents

Bad well construction (“bad wells gone bad”)

Spills – especially spills of undiluted fluids

Leaking Pits – about 2/3 of the frack fluids are returned to the reserve

Production fluids mismanagement - frack fluids are either re-injected, treated, discharged, or land managed





# Pathways that are systemic

“Good wells gone bad” -pathway allowed by brittle geology or an ungrouted or abandoned well

Air pathways from pits and condensate tanks to a community or ecosystem

- Evaporation of toxic frack fluids and VOCs from reserve pits
- VOCs could later condense and ‘rain’ on an ecosystem

# 2010 – EPA conducting a new study

EPA will investigate fracking affects on drinking water

— budgeted at \$3.5 million over 2 years

impacts from water demands and the air pathways included



# Need for federal investigation

When an airplane crashes, the NTSB investigates – so when a well crashes, the nation needs an **Oil and Gas Safety** to provide oversight

When an oil/gas well blows out, state or in the case on the Gulf BP disaster, the Dept. of Interior and Congress investigate

When an oil / gas well causes public health or environmental pollution, do not investigate the cause or the pollution pathway

If a property owner succeeds with a tort claim = no public information

# What a county/city can do

Pittsburg's ordinance bans drilling/protects civil rights

See Santa Fe County, NM – 80% of county off limits to drilling

See Mora County, NM – citizens mounting a no drilling defense

See Park County, CO – El Paso Gas Co. agrees to place a track



# What citizens can do –

show me the data – don't accept Industry's view that absence of data is proof of absence of risk

pressure State Oil Commissions to investigate contamination 'pathways', not chemicals

follow, support, and comment on EPA's new fracking study

help assure the FRAC Act passes, what is the position of your congressman or senator?

help assure EPA's Clean Air Act rules on aggregating oil/gas emissions

# more citizen tactics

by county, state, and EPA to conduct ground water and air monitoring **before** and after oil and gas exploration

along with state inspectors to check well and pit construction

monitoring at citizen's group expense?

ground water – obtain baseline data for domestic wells

baseline data: KCl, methane, benzene

ambient air – expensive lidar cameras to film VOC emissions, expensive particulate matter sensors



# Congress and the FRAC Act

Revises Safe Drinking Water Act to require disclosure of chemicals and fracking subject to EPA Underground Injection Control (UIC) permits

Sponsors House– Diana DeGette (D-Co) and Maurice Hinchey (D-Pa), Senate – Bob Casey (D-Pa) and Chuck Schumer (D-NY)

Henry Waxman's 18 letters to industry demands data and 'all allegations of adverse health effects'

EPA letter to 8 companies – Subpoena issued to Halliburton

# British Columbia





FRACK YOUR  
WAY OUT OF  
OFFICE

MONEY IS THE ISSUE  
BUT  
WHO BENEFITS???

BUY WATER?

~~FRACK~~

GAS FRACKING  
HEALTH ISSUES?  
GO TO:  
WWW.ENDOCRINE  
DISRUPTION.COM

~~FRACK~~

~~FRACK~~

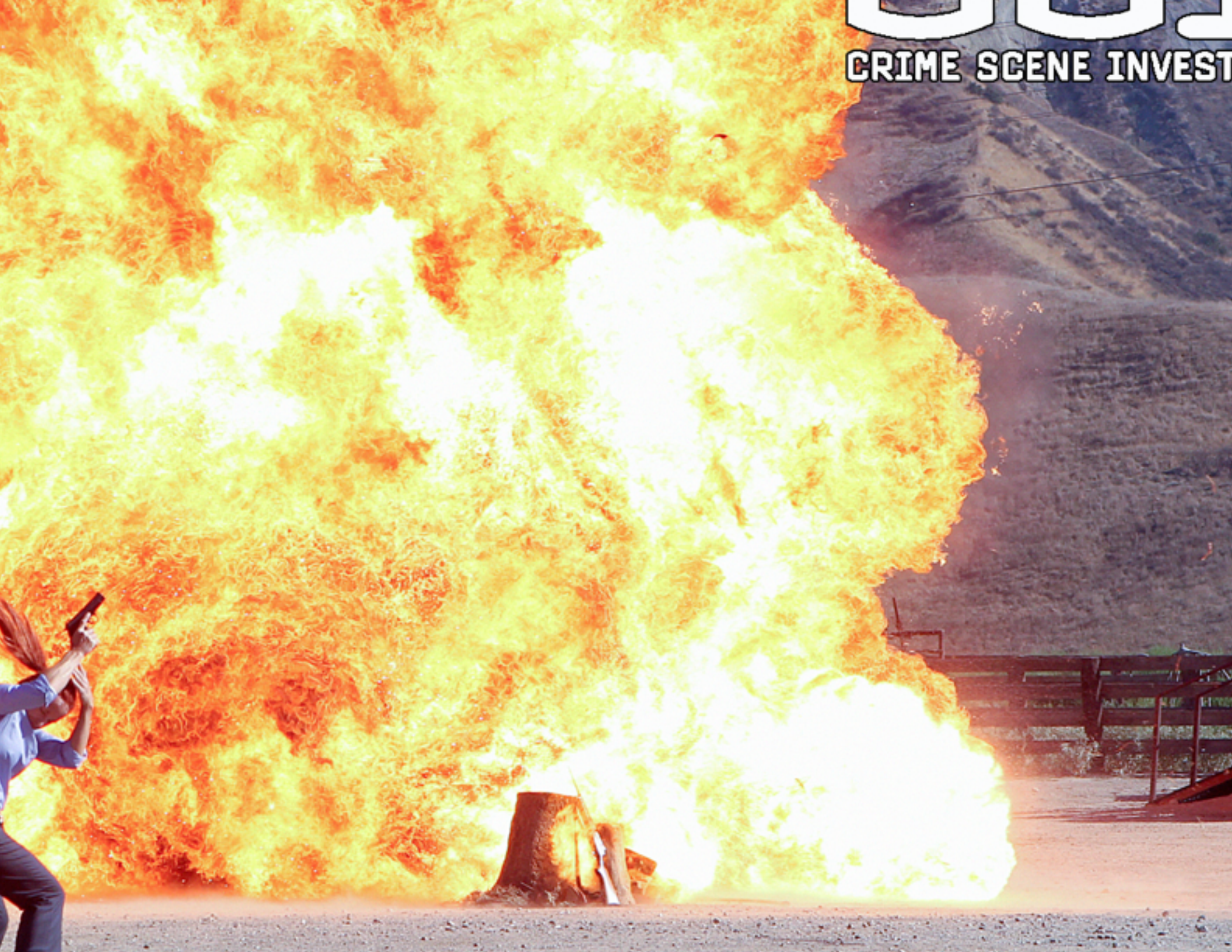
~~FRACK~~

STOP THE  
FRACKING





# COOL CRIME SCENE INVEST





# 60 Minutes Coverage



# Only Nixon can go to China



