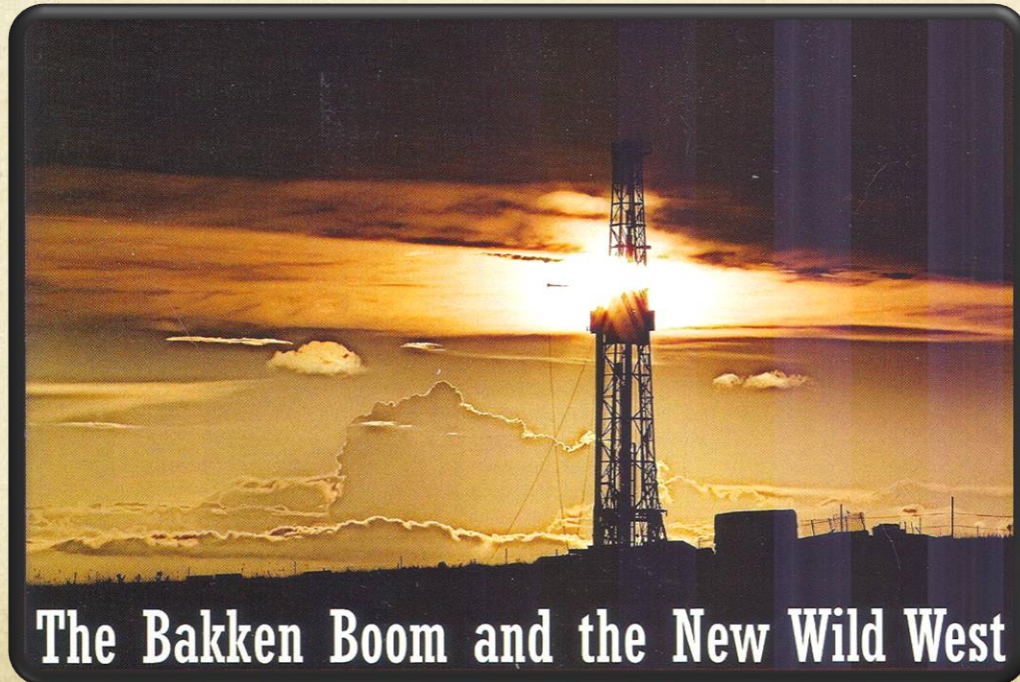


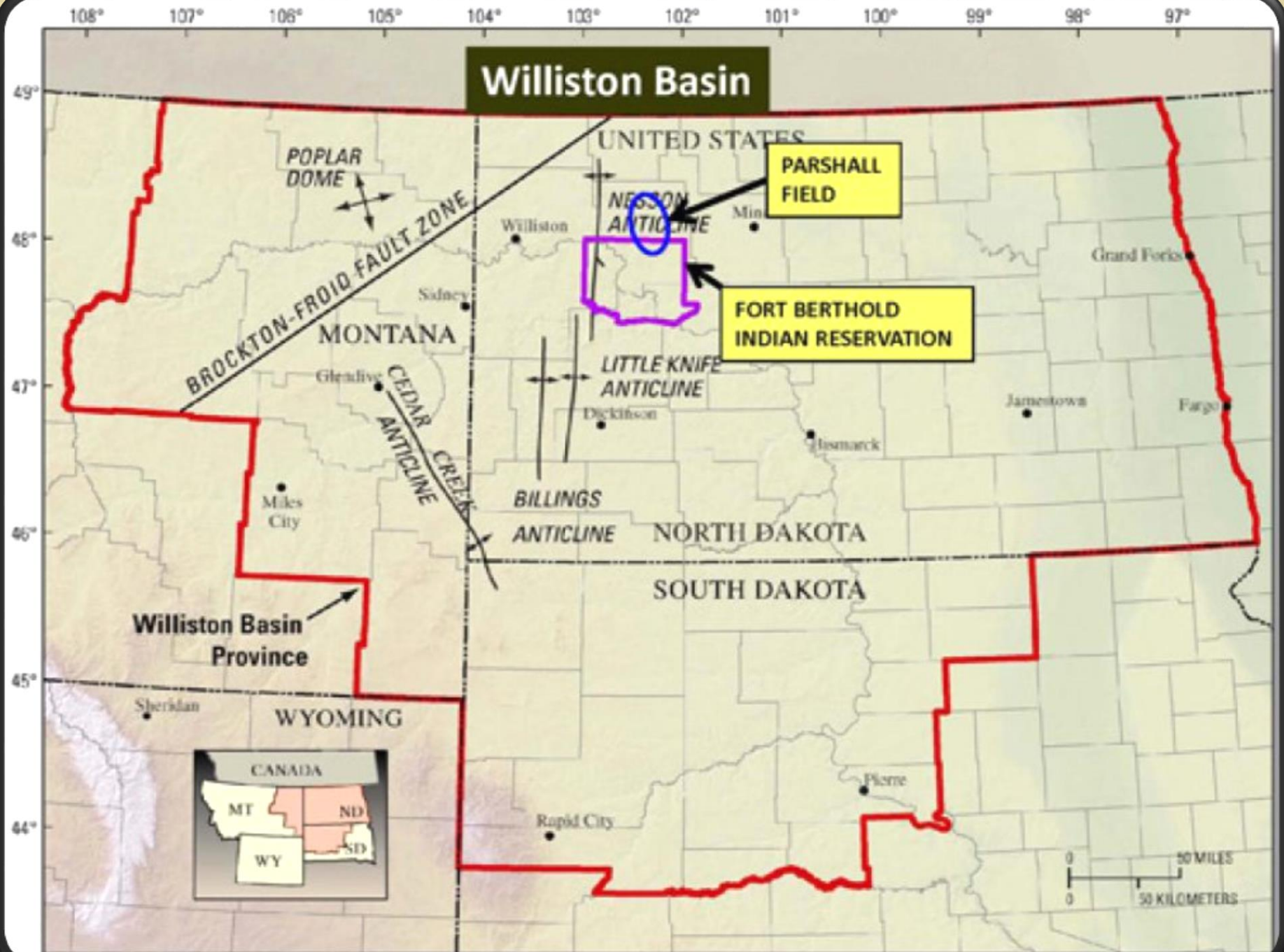
The Price We Pay For
“Energy Independence”:
The Environmental & Social Impacts Of
The Bakken Oil Shale Boom



The Bakken Boom and the New Wild West

THE BAKKEN BOOM AND THE NEW WILD WEST

Williston Basin



The Bakken Shale Formation within the Williston Basin







FOR LEASE
**INDUSTRIAL
ZONED**
701-721-1376

Why Not Frack Farmland?



Millions of gallons of fracking fluid contains **632 chemicals**:

25% are linked with cancer or mutations

37% affect hormones

40%-50% affect kidneys and nervous, immune and cardiovascular systems

75% affect sensory organs and respiratory and gastrointestinal systems



Methane gas contamination in drinking water was 17 times higher near fracking sites.

Toxic wastewater, often radioactive, is stored in open pits before being trucked away.

60% of wells leak over a 30-year period.

AQUIFER
<1,000 ft

Toxic fluids seeping through natural fractures can reach drinking-water aquifers in as little as three years.

30-70% of spent fracking fluid is not recovered and stays in the ground.

SHALE
7,000-10,000 ft



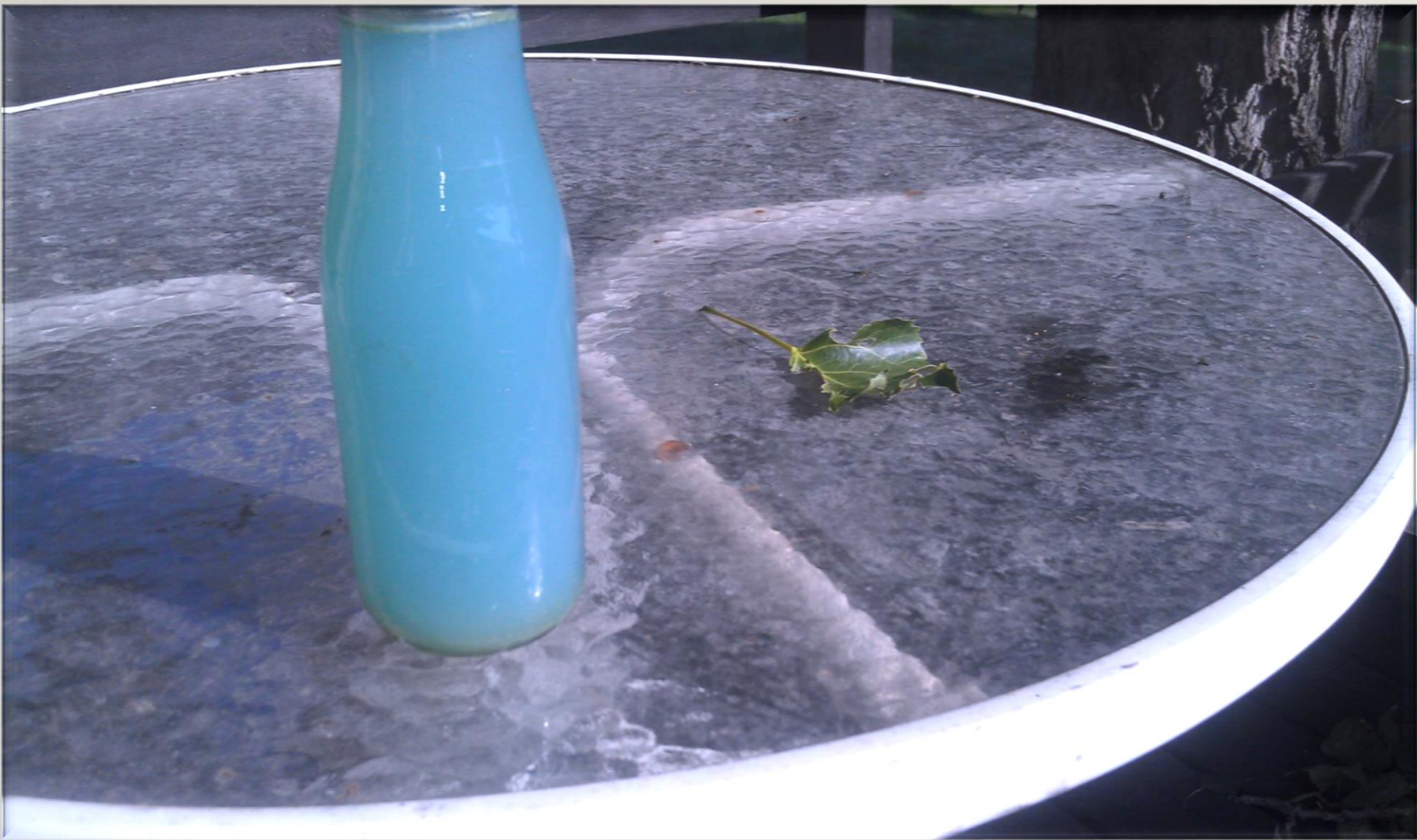
Overland & Co. Portland, April 2013

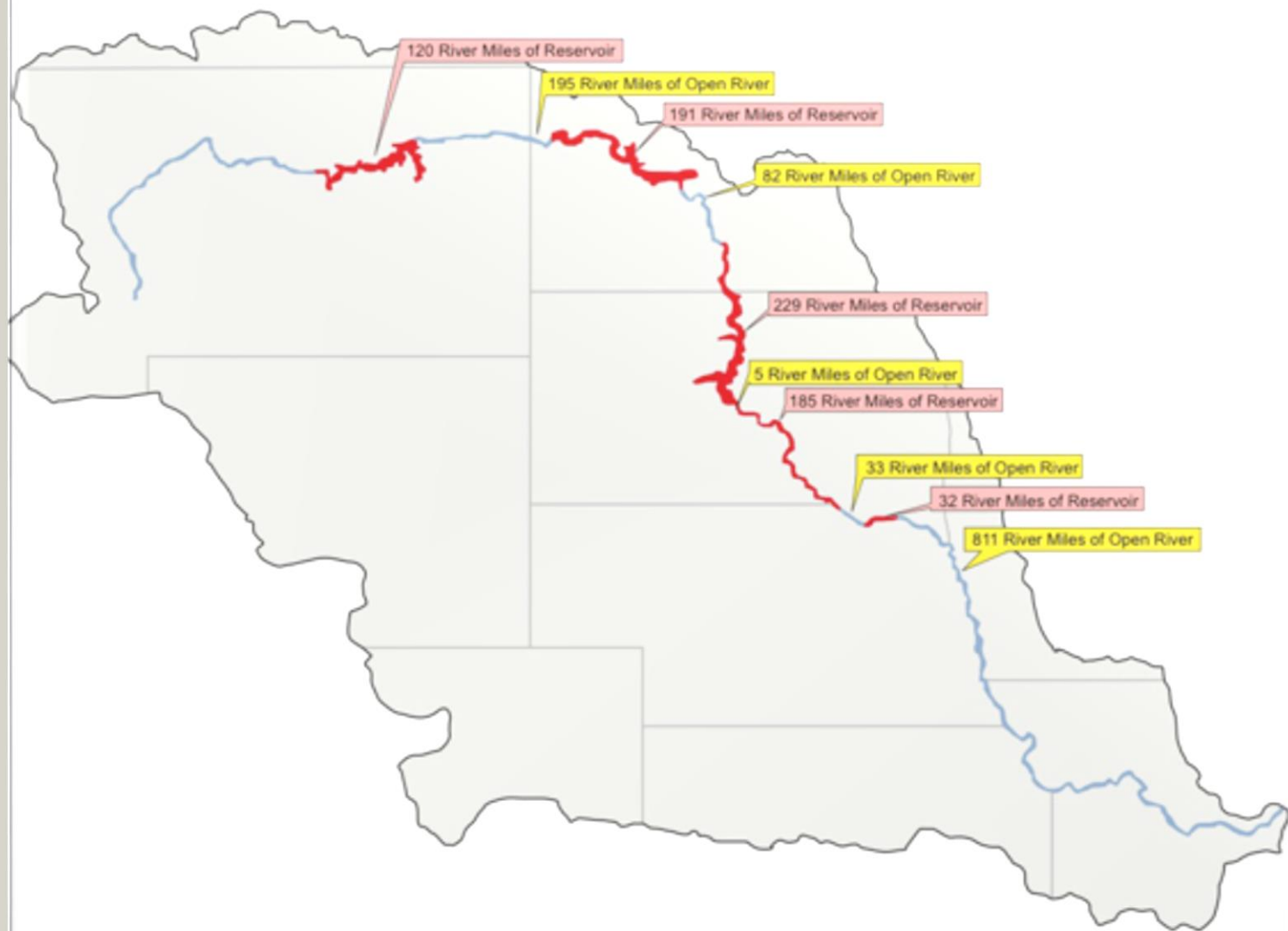
Ozone



- Ozone itself is not released during oil and gas development. But some of the main compounds that combine to form ozone (e.g., volatile organic compounds and nitrogen oxides) are released from oil and gas operations.
- Ozone, when found at ground-level, is also referred to as "smog," which, when inhaled can cause or aggravate respiratory ailments such as asthma.











Mandaree
Site of spill

Fort Berthold
Indian
Reservation



50 miles

NORTH DAKOTA

Lake
Sakakawea

Missouri
River

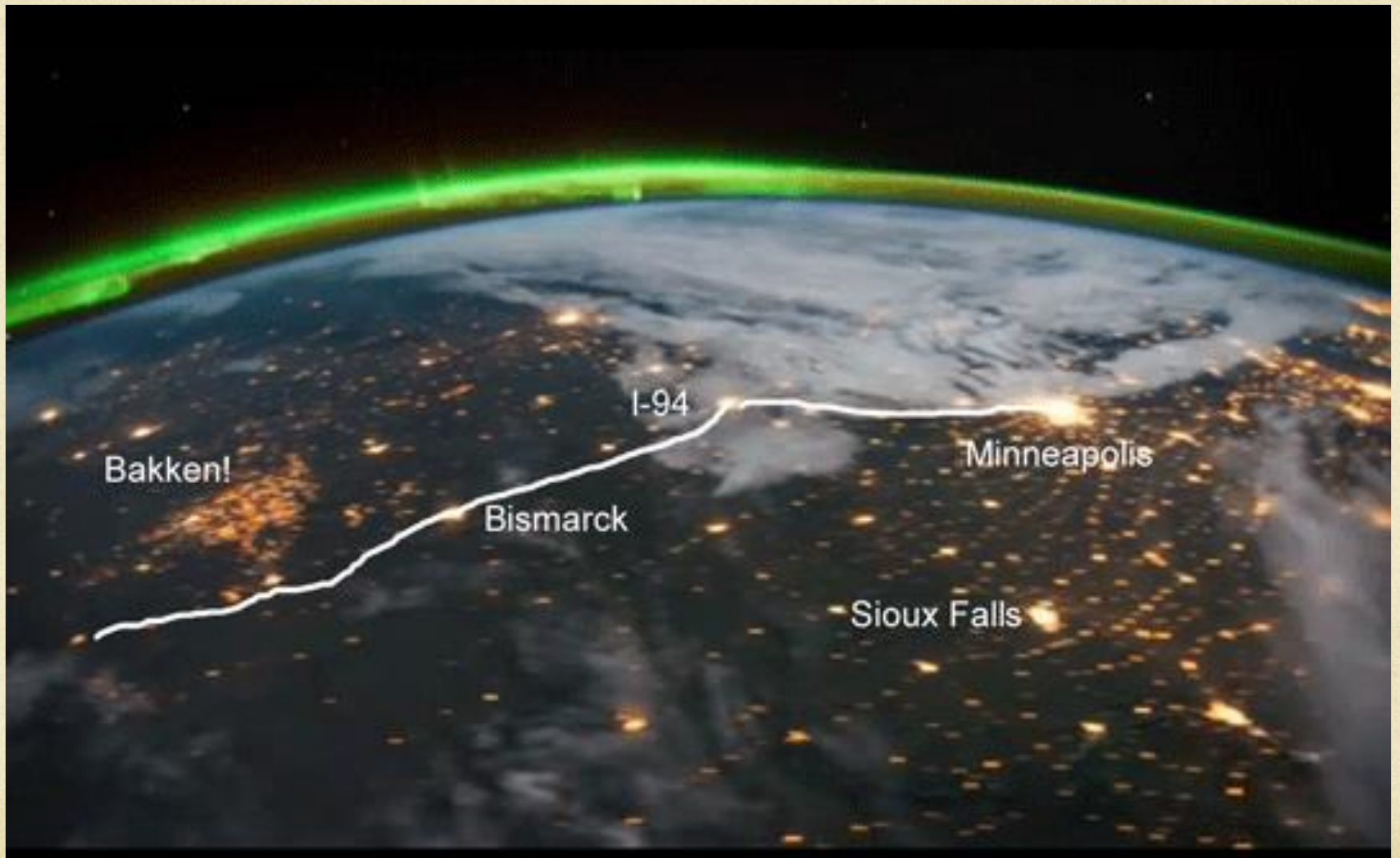
Bismarck

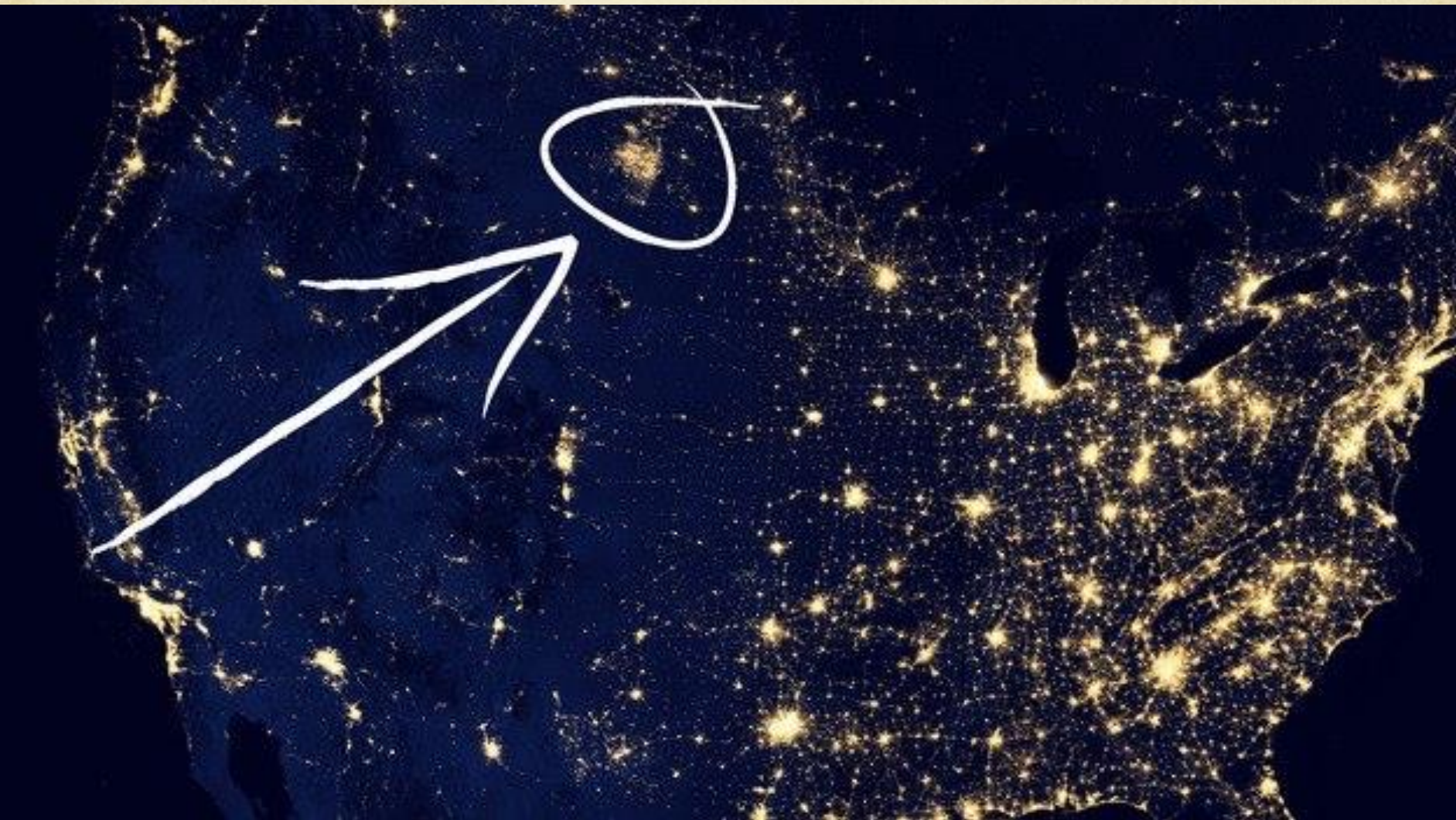


The waste fluid contains
high levels of salt, heavy
metals and possible
radioactive material and
fracking fluids.

SOUTH DAKOTA







DANGER

H₂S (HYDROGEN SULFIDE GAS)
POISONOUS GAS
MAY BE PRESENT



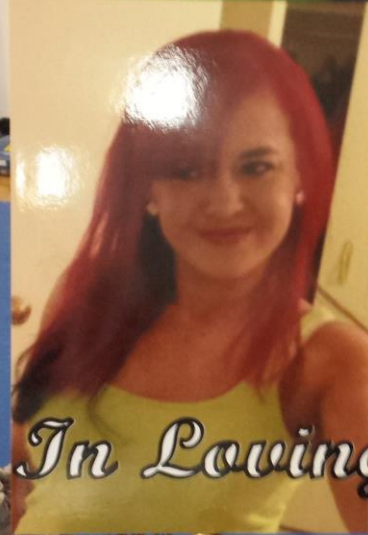
SAVE A LIFE.

THINK BEFORE YOU

PASS!

We Miss You Cassi





In Loving Memory









DANGER



RADIOACTIVE FRACKING FILTER



DO NOT TOUCH.

REPORT IMMEDIATELY!



Report to:
Edmund Baker, Interim Director
TAT Environmental Division
701-627-4569 (w) or 701-421-6873 (m)

North Dakota Population

	Rural *	Urban *	Total
Year			
1980	418,382	234,335	652,717
1990	381,412	257,388	638,800
2000	358,234	283,966	642,200
2010	347,173	325,418	672,591
2011	354,087	329,845	683,982

11391 Pop. increase from 2010-2011

Unemployment Rate (percent)

Name	2005	2006	2007	2008	2009	2010	2011
North Dakota	3.4	3.2	3.1	3.1	4.1	3.8	3.5

Employment

	Rural *	Urban *	Total
Total number of jobs			
2009	239,234	253,421	492,655
2010	247,545	255,235	502,780

10125 Jobs created from 2009-2010

<http://www.ers.usda.gov/Data/Unemployment/RDList2.asp?ST=ND>

Don't let North Dakota officials or the media fool you. North Dakota's unemployment rate has always been low, compared to other states. This data indicates that we are employing a bunch of non-North Dakotans.







**FUCK
INDIANS**

You're
Welcome for
all of the things
US white men
paid for you
dirty fucks

CAUTION
Do not play in, on,
and or occupy
this area for
any purpose.

FBI INVESTIGATES MURDER OF WOMAN AND HER THREE GRANDCHILDREN ON FORT BERTHOLD INDIAN RESERVATION

Fort Berthold: Oil trucks killed seven children and youths

On Indian Land, Criminals Can Get Away With Almost Anything

Fort Berthold Reservation Murder



Crime overwhelming law enforcement in oil patch

Two Die in Fiery Crash in Western ND Oil Patch

Oil Field Deaths Could be a Record

Man arrested in stabbing death at oil crew camp

Oil Boom Creating Dark Side Of Industry In North Dakota

HYDROCARBON POISONING BLAMED FOR N.D. OIL WORKER DEATH

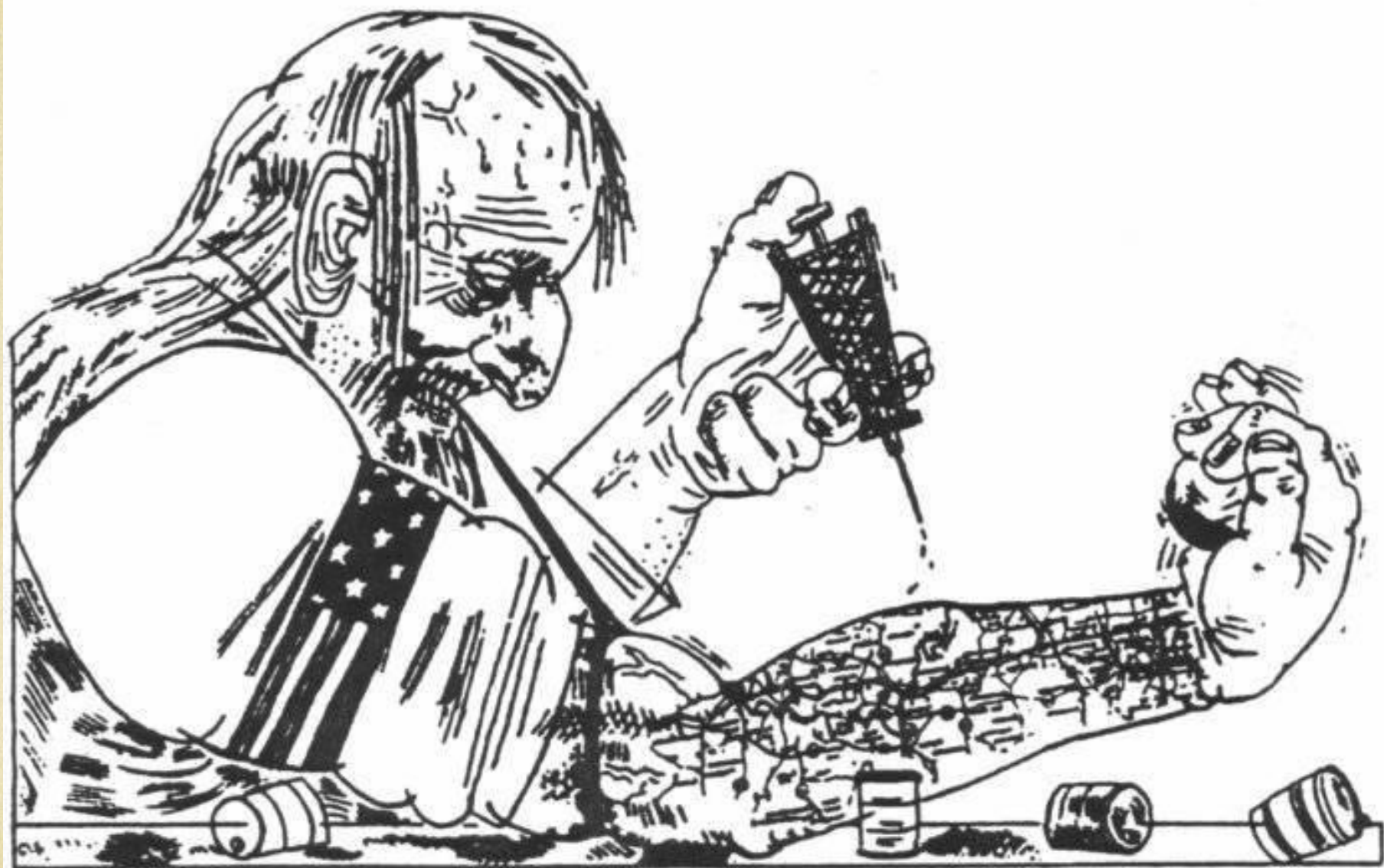
NORTH DAKOTA OIL RIG EXPLOSION KILLS 2 WORKERS, INJURES 2 OTHERS

America's Boomtown: Crime soars in North Dakota oil patch

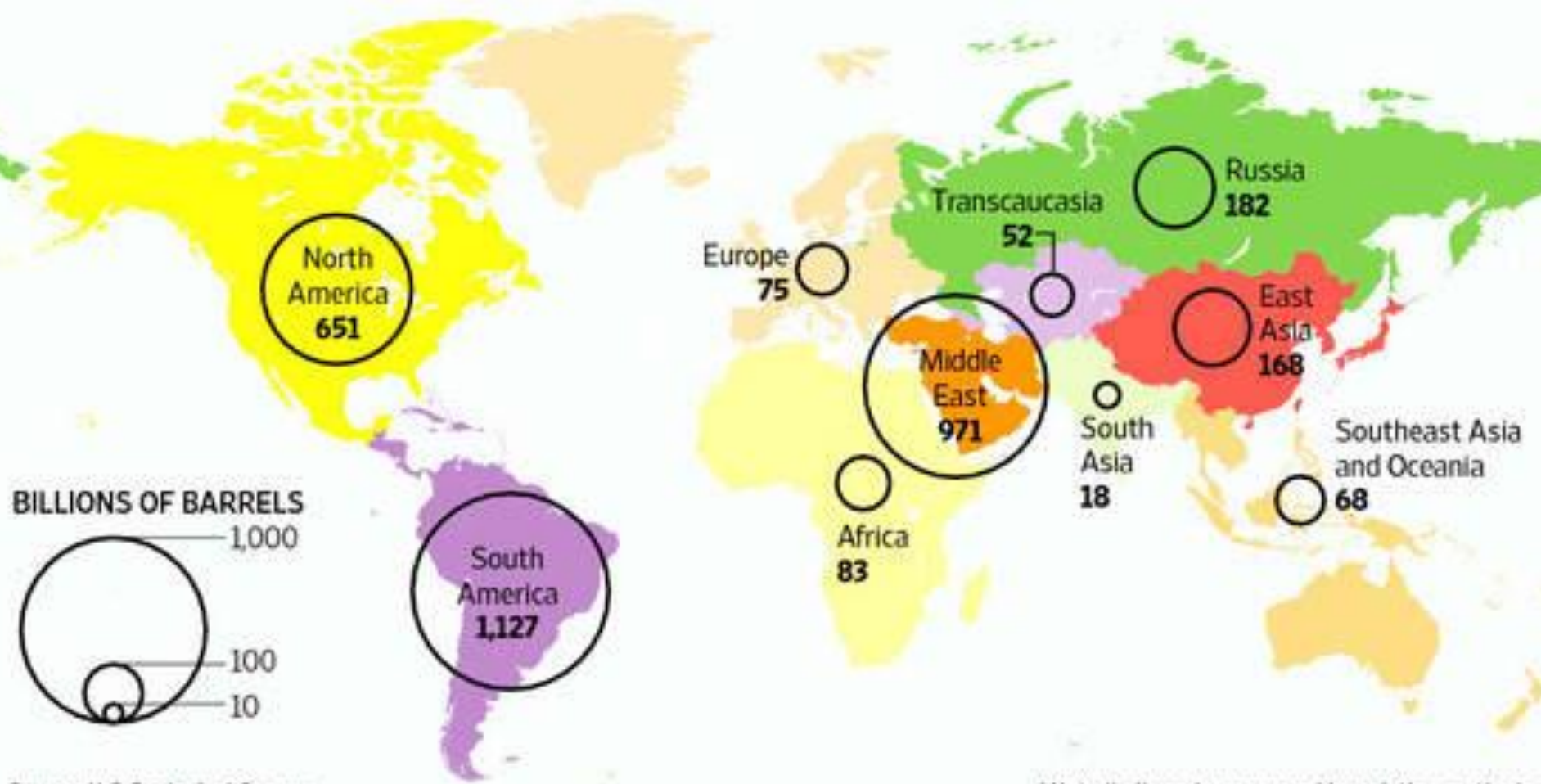








Oil's Next Frontier | Estimated heavy-oil deposits by region*



Source: U.S. Geological Survey

*Not all oil can be recovered by existing methods

Protect Future Generations



Just climate policies take into account the impacts on future generations in deciding policy today. The “*Seventh Generation Principle*”



water is life







Mod-zi-gidaz
(Thank you)

