

Frack Free East Yorkshire

A Coalition of Groups Opposed to Extreme Energy

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Current Situation

New oil & gas licences will be granted later in 2015, and our region is especially badly affected...

[read more...](#)

It has just been announced that infamous fracking company Cuadrilla will be offered at least one block (SE95) west of Driffield, centred on Tibthorpe. [Read more...](#)



[Rathlin Energy \(UK\) Ltd](#) is currently the main licence holder in our region and have 3 wellsites in East Yorkshire. Their Licence block (PEDL183) stretches from Brough, Beverley & Hornsea to Spurn point.

Sign Up for Our Newsletter

Keep up to date with the Frack Free East Yorkshire newsletter:

Email: [frackfree@eastyorkshire.com](#)

frackfreeeastyorkshire.com
/references



Cherry Burton Against Fracking



Frack Free Bridlington

Frack Free Pocklington Area



Friends of the Earth Beverley

Friends of the Earth Hull



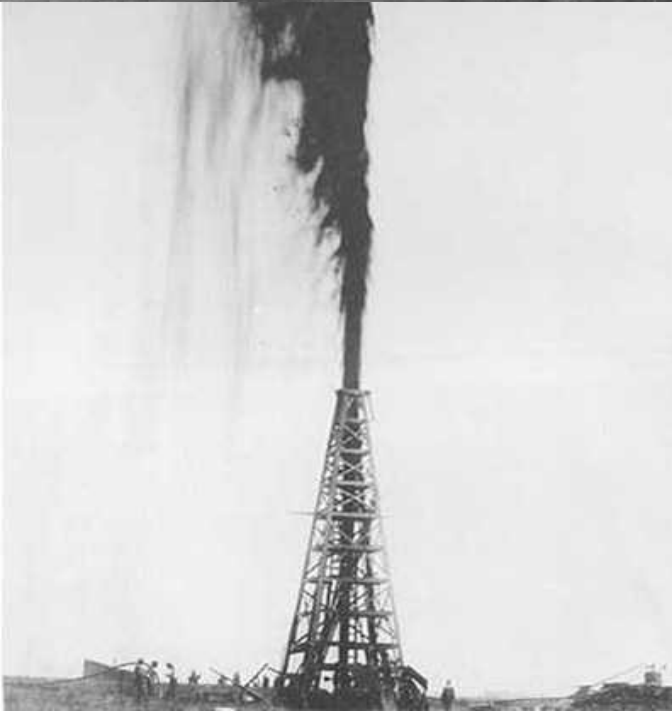
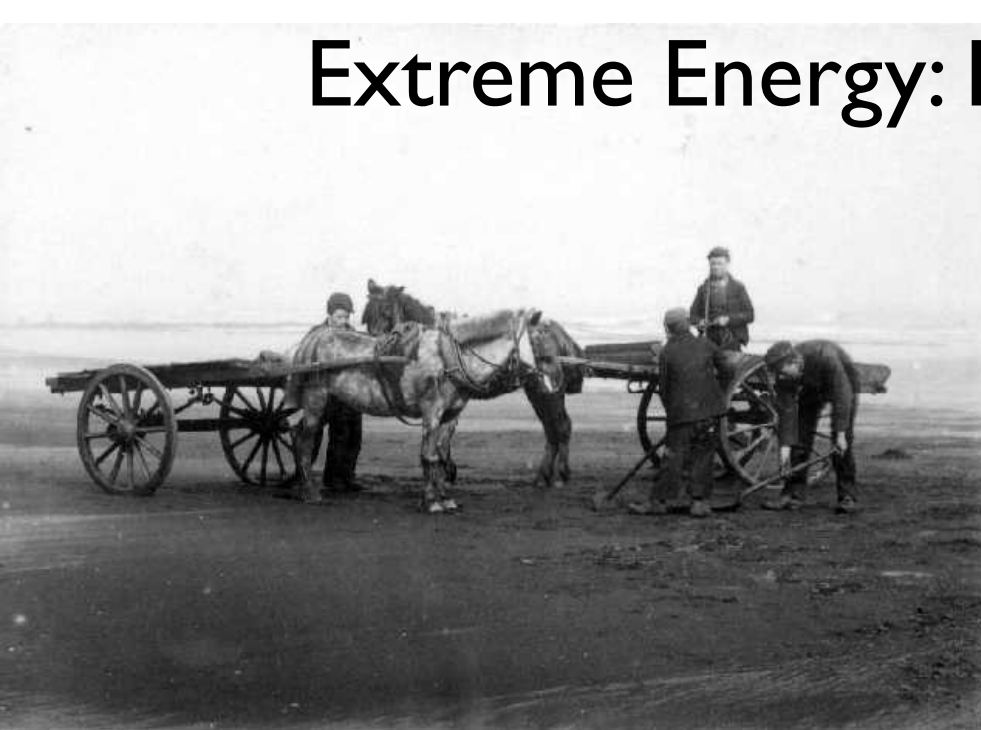
Mid Holderness Against Rural Industrialisation

New Ellerby and Old Ellerby Against Fracking



Walkington and Bishop Burton Action Group

Extreme Energy: Extraction Effort



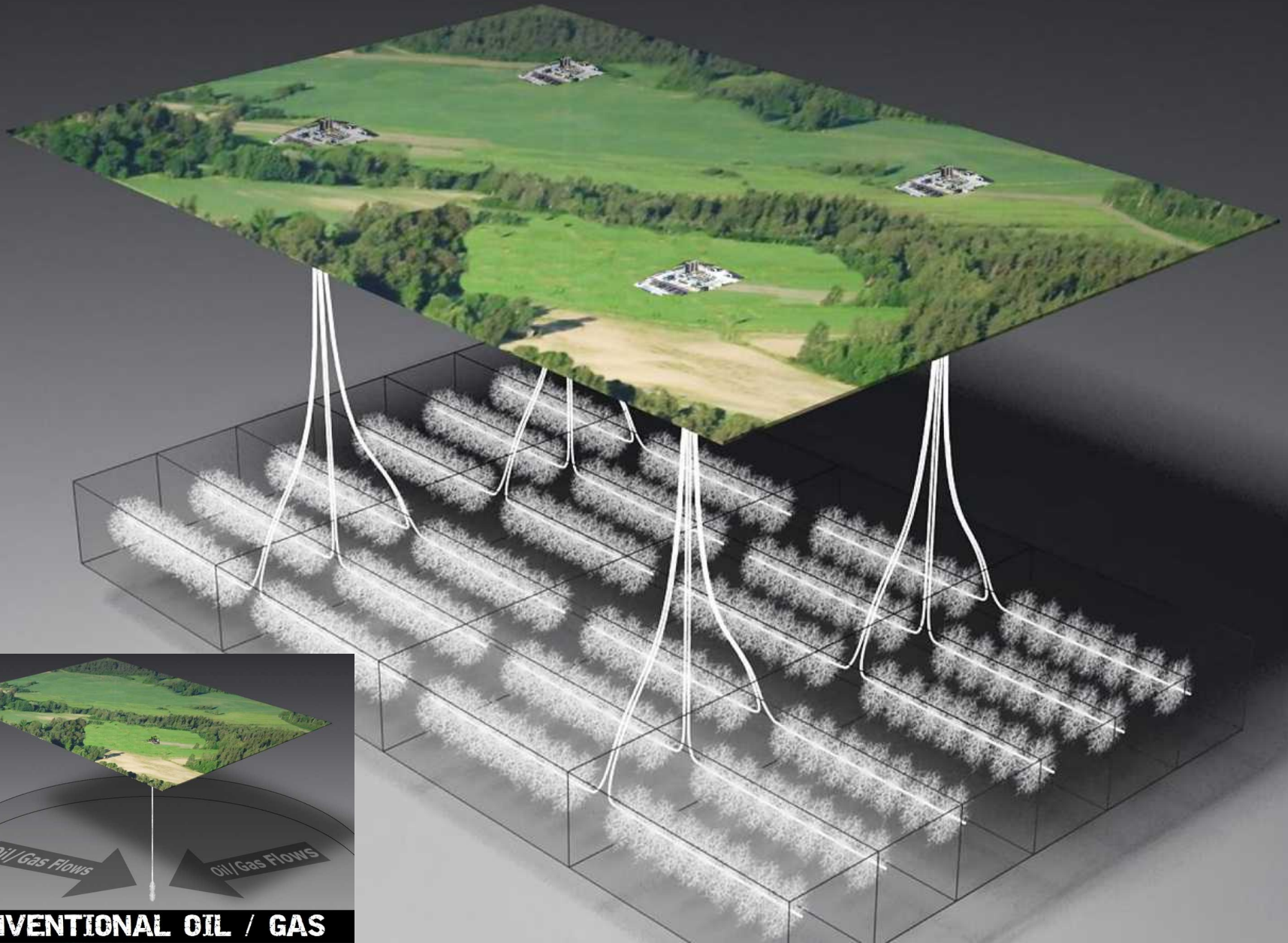
Conventional Oil or Gas



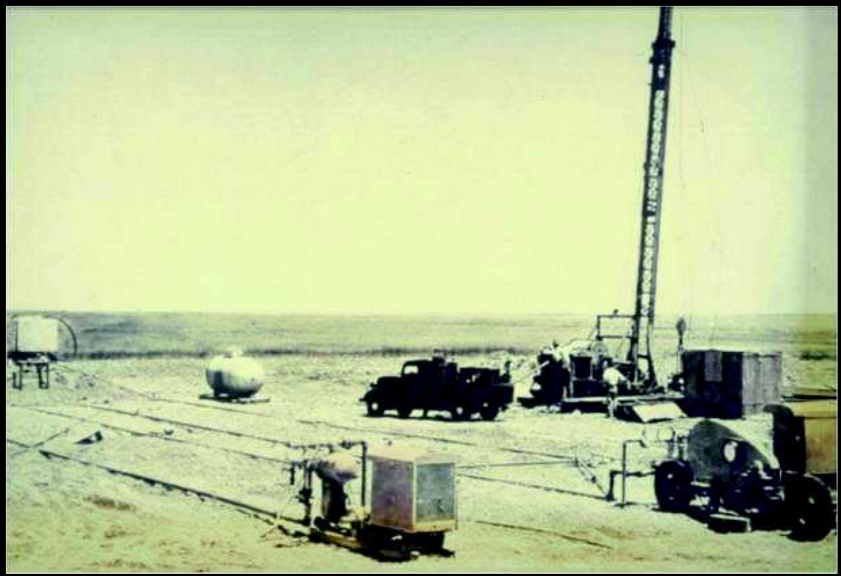
Oil/Gas Flows

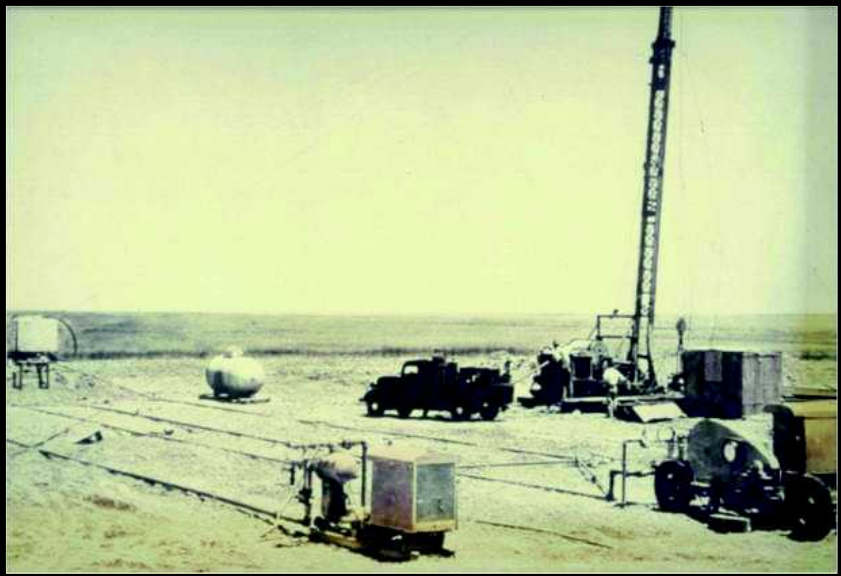
Oil/Gas Flows

Unconventional Gas: Fracking



CONVENTIONAL OIL / GAS





High Volume fracking has only happened once in the UK, at Cuadrilla's Preese Hall well near Blackpool.

It triggered small earthquakes which damaged the well casing.



20 IMPACTS SHALE OIL/GAS

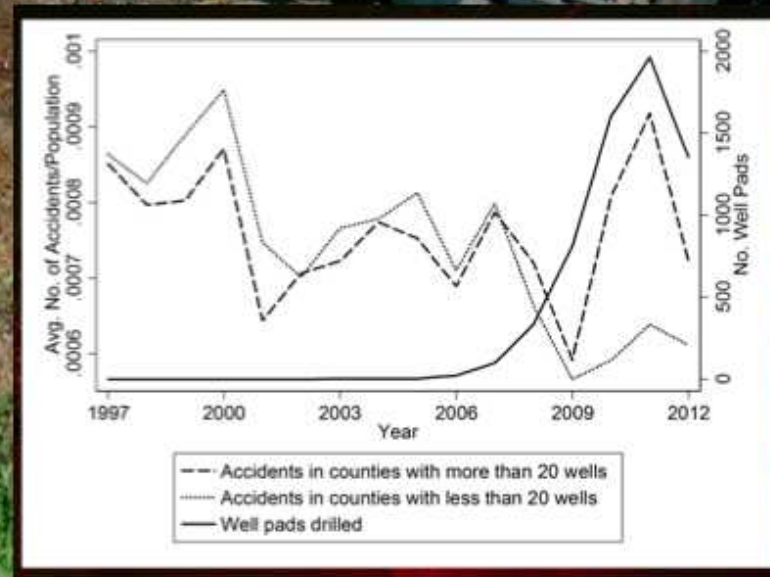
PEOPLE
OVER
PROFIT

WATER IS LIFE

Impacts: Transport



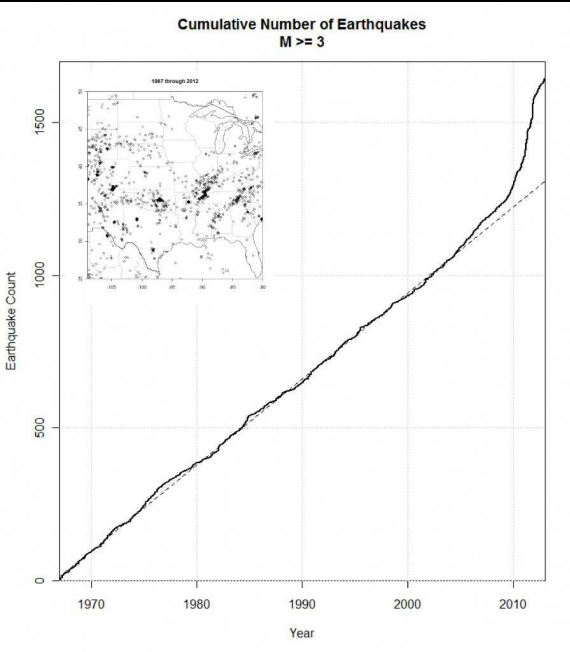
Marcellus Shale, Pennsylvania



Impacts: Earthquakes



Impacts: Earthquakes



Science

AAAS

INDUCED EARTHQUAKES

Sharp increase in central Oklahoma seismicity since 2008 induced by massive wastewater injection

K. M. Keranen,^{1*} M. Weingarten,² G. A. Abers,^{3†} B. A. Bekins,⁴ S. Ge²

Unconventional oil and gas production provides a rapidly growing energy source; however, high-production states in the United States, such as Oklahoma, face sharply rising numbers of earthquakes. Subsurface pressure data required to unequivocally link earthquakes to wastewater injection are rarely accessible. Here we use seismicity and hydrogeological models to show that fluid migration from high-rate disposal wells in Oklahoma is potentially responsible for the largest swarm. Earthquake hypocenters occur within disposal formations and upper basement, between 2- and 5-kilometer depth. The modeled fluid pressure perturbation propagates throughout the same depth range and tracks earthquakes to distances of 35 kilometers, with a triggering threshold of ~0.07 megapascals. Although thousands of disposal wells operate aseismically, four of the highest-rate wells are capable of inducing 20% of 2008 to 2013 central U.S. seismicity.

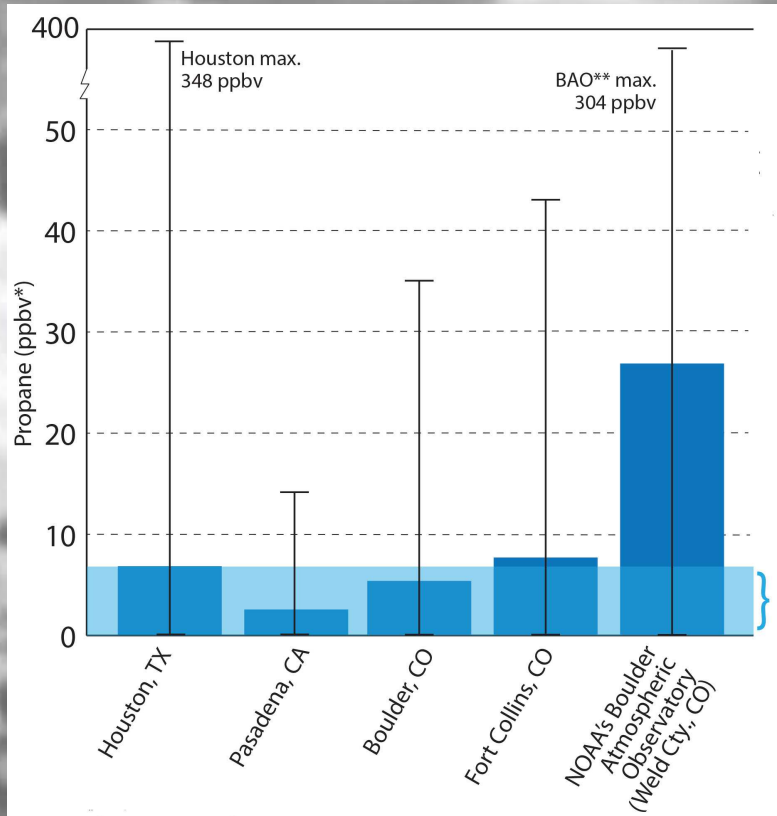
Seismicity in the United States midcontinent surged beginning in 2008 (1), predominantly within regions of active unconventional

to 2013 as compared to 1976 to 2007 (Fig. 1, inset A) (10). Wastewater disposal volumes have also increased rapidly, nearly doubling in central Oklahoma

Impacts: Air Pollution

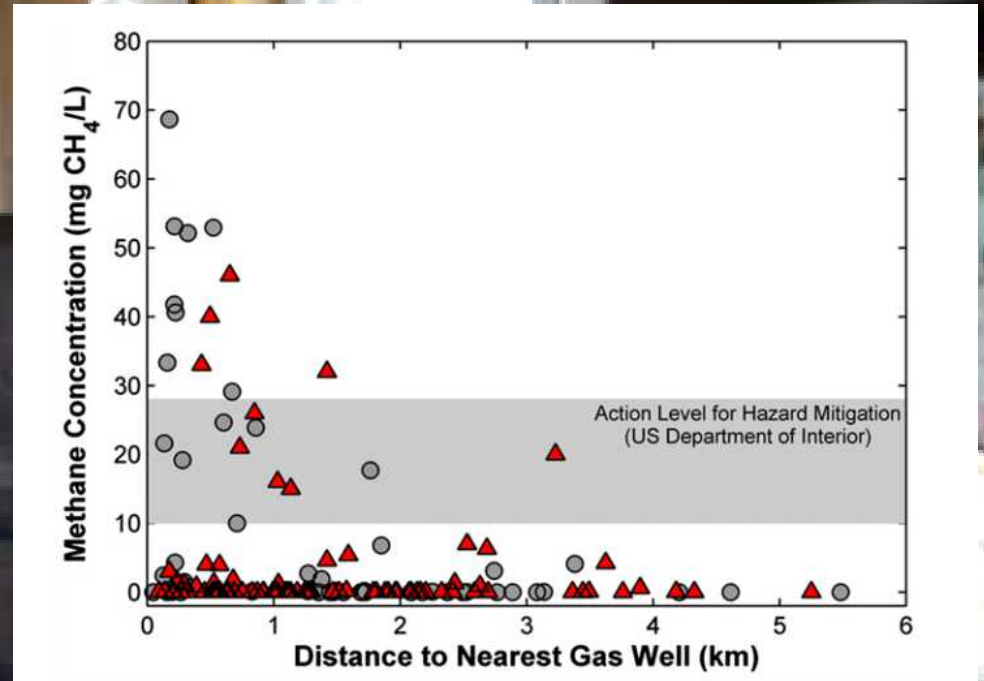


Impacts: Air Pollution

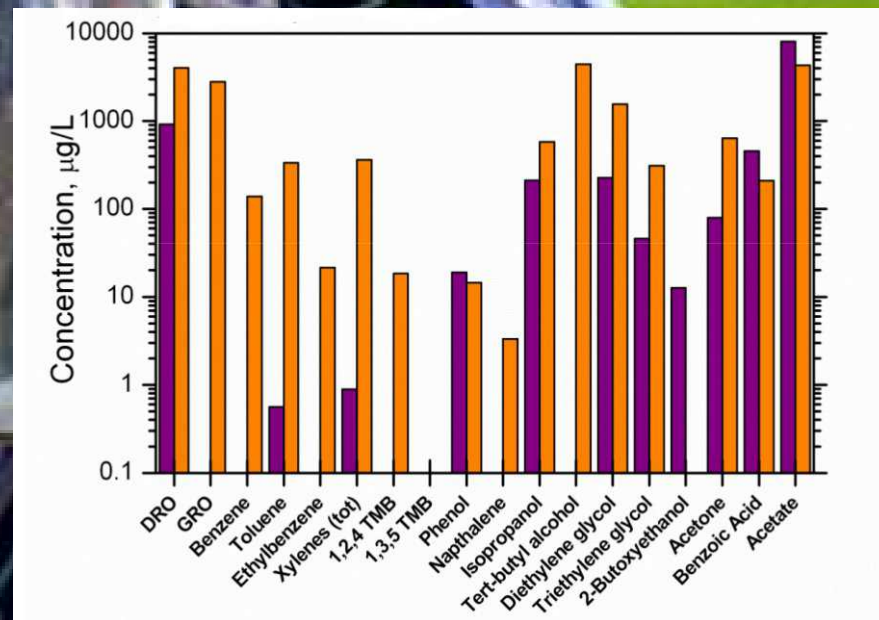
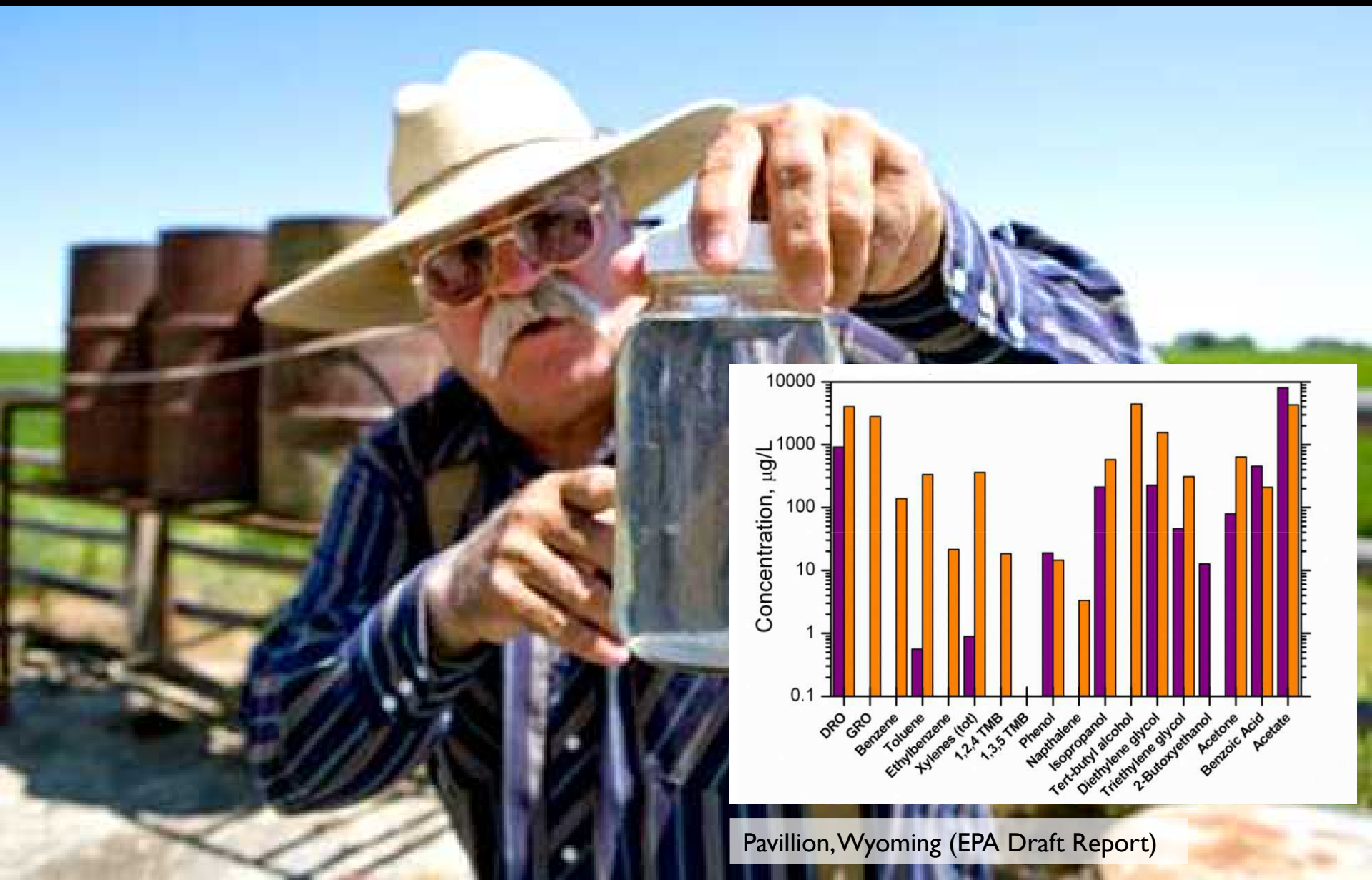


Boulder Atmospheric Observatory, NOAA, Colorado (2013)

Impacts: Methane Contamination



Impacts: Toxic/Radioactive Water



Pavillion, Wyoming (EPA Draft Report)

Peter Rolinson, Water Chemist



“Unlike other areas of the country, in East Yorkshire we get most of our water from one very large aquifer.

Even slight contamination of this aquifer could cause major issues for a large population.

It is vital that we maintain the integrity of this aquifer.

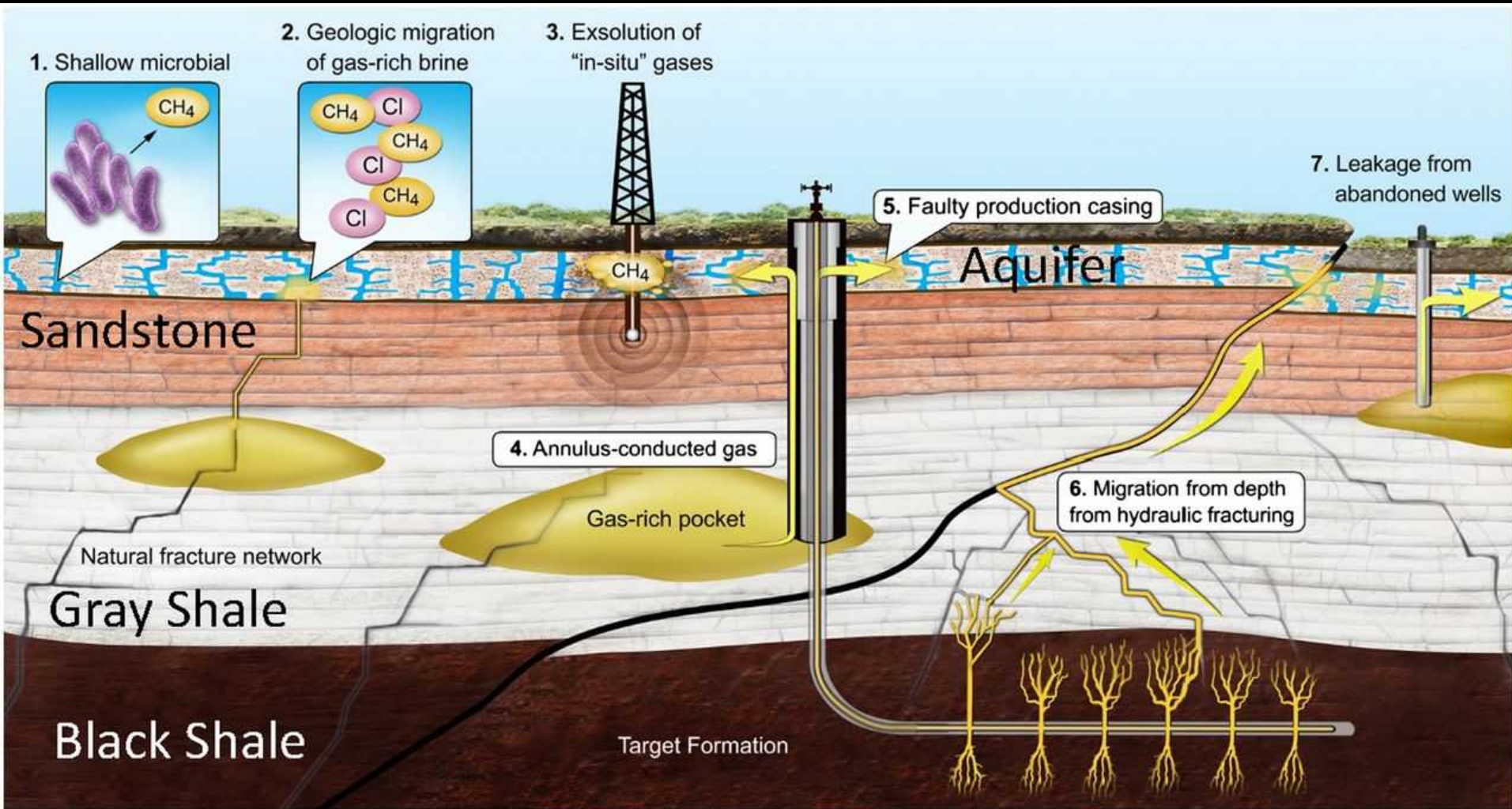
We cannot afford the slightest risk of contamination of this vital water supply for East Yorkshire.

It would take years to clean up, and the risk would remain as long as fracking continues.

I think with the potential contamination of water, the air pollution, the transport, the lack of economic benefit -

I don't think fracking should be considered at all.”

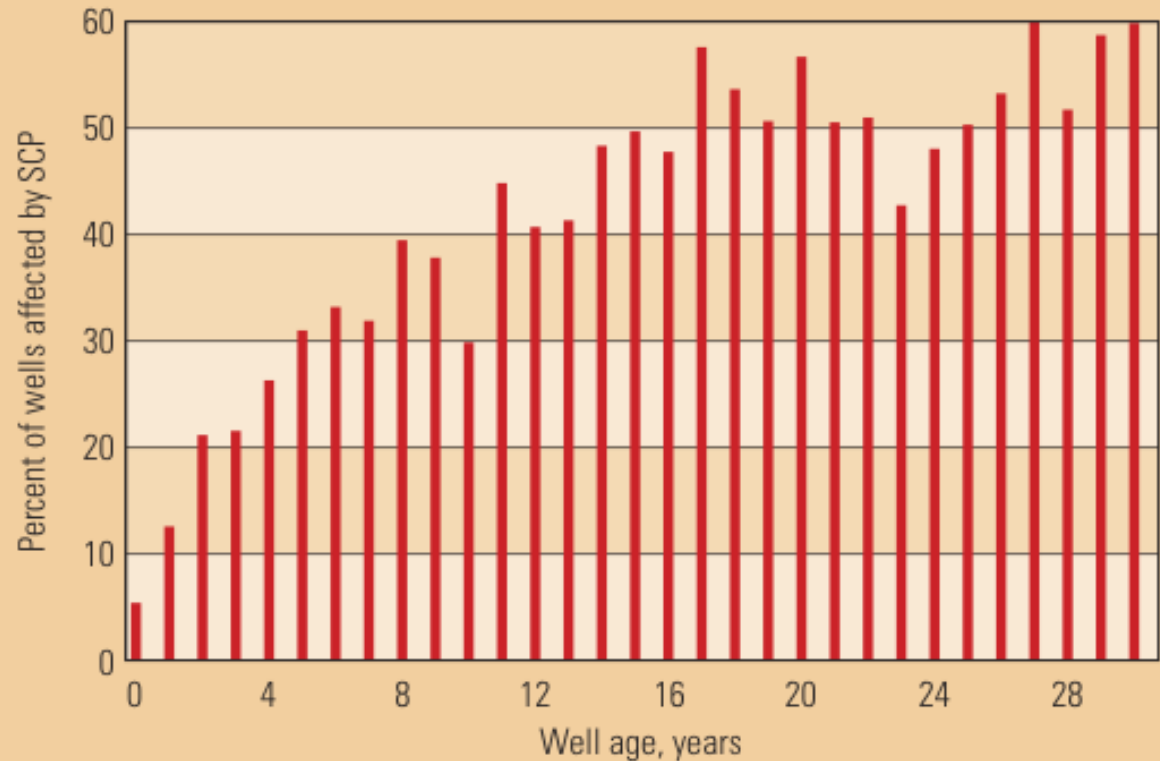
Leakage Pathways



Impacts: Well Casing Failure is Common

Oilfield Review

Autumn 2015

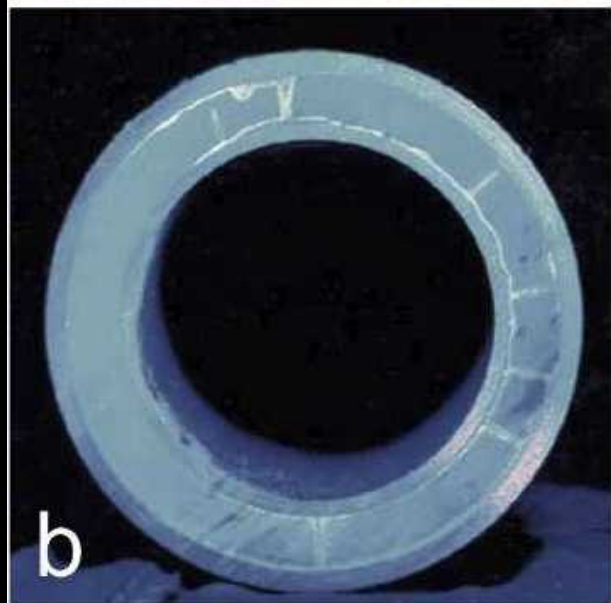


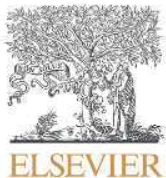
Coalbed Methane Reservoirs

Fracture Restimulations

Building Gas Wells

Schlumberger





Contents lists available at ScienceDirect

Marine and Petroleum Geology

journal homepage: www.elsevier.com/locate/marpetgeo

Review article

Oil and gas wells and their integrity: Implications for shale and unconventional resource exploitation

Richard J. Davies^{a,*}, Sam Almond^a, Robert S. Ward^b, Robert B. Jackson^{c,d},
Charlotte Adams^a, Fred Worrall^a, Liam G. Herringshaw^a, Jon G. Gluyas^a,
Mark A. Whitehead^e

^a Durham Energy Institute, Department of Earth Sciences, Durham University, Science Labs, Durham DH1 3LE, UK

^b Groundwater Science Directorate, British Geological Survey, Keyworth, Nottingham NG12 5GG, UK

^c School of Earth Sciences, Woods Institute for the Environment, and Precourt Institute for Energy, Stanford University, Stanford, CA 94305, USA

^d Nicholas School of the Environment, Division of Earth and Ocean Sciences, Duke University, Box 90338, 124 Science Drive, Durham, NC 27708-0338, USA

^e Ward Hadaway, Sandgate House, 102 Quayside, Newcastle Upon Tyne NE13DX, UK

ARTICLE INFO

Article history:

Received 8 December 2013

Received in revised form

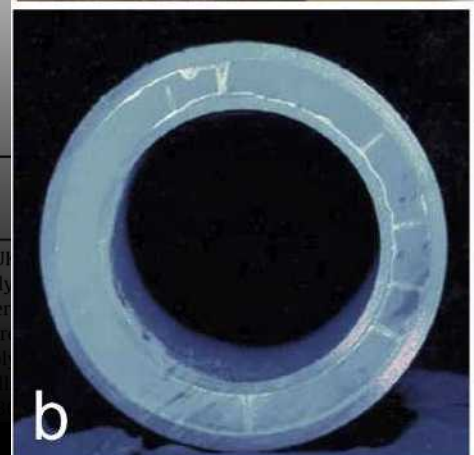
28 February 2014

Accepted 1 March 2014

ABSTRACT

Data from around the world (Australia, Austria, Bahrain, Brazil, Canada, the Netherlands, Poland, the UK and the USA) show that more than four million onshore hydrocarbon wells have been drilled globally. Here we assess all the reliable datasets (25) on well barrier and integrity failure in the published literature and online. These datasets include production, injection, idle and abandoned wells, both onshore and offshore. The datasets vary considerably in the percentage of well

**"The research confirms that well failure in hydrocarbon wells is an issue and that publicly available data in Europe on this seems to be sparse...
... we don't really know the full extent of well failures. There were unknowns we couldn't get to the bottom of."
Professor Richard Davies, Durham University**



Parr Family, Texas



Family awarded \$3MILLION after court finds chemical exposure from fracking on land next to their home left them sick and suffering horror side effects

- The Parr family of Decatur, Texas, first complained of falling ill in 2008 - after Aruba Petroleum began fracking operations near to their ranch
- Bob and Lisa Parr and their daughter Emma developed nosebleeds, nausea, rashes and asthma
- Some of their livestock were born with deformities after the Parr's land was contaminated
- They launched a lawsuit against the energy firm - which went to trial
- The jury sided with the Parr family - a first in fracking lawsuits in the US

By JAMES NYE

PUBLISHED: 06:06, 24 April 2014 | UPDATED: 18:05, 24 April 2014



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99 View comments

A Texas family have won a nearly £3 million judgement against an oil giant after claiming that fracking operations near their 40-acre ranch left them suffering severe health side-effects.

In what is believed to be the first successful legal action against a shale operator, Bob and Lisa Parr sued Aruba Petroleum for damages for a raft of illness they and their daughter Emma have suffered from for almost six years.

They convinced a jury that the company's hydraulic fracturing operations had contaminated their water and land in Decatur leaving them suffering nosebleeds, nausea and rashes.

Scroll Down for Video



Pennsylvania Alliance for Clean Water and Air

Dedicated citizens fighting to protect our most valuable resources.

Search



Home About **List of the Harmed** List of the Harmed – Pennsylvania List of the Harmed – West Virginia
List of the Harmed – Texas List of the Harmed – North Dakota More Information Upcoming Events Earth Day Contest
Comic and Musical Relief Contact Us

List of the Harmed

-Updated as of August 28th, 2015-

*PDF version here – [List of the Harmed](#)

The following is an ever-growing list of the individuals and families that have been harmed by fracking (or fracked gas and oil production) in the US.

Should you encounter any issues (misinformation, broken links, etc.) or if you are/know someone who should be added to this list, please contact us at pacwainfo@gmail.com

1. Pam Judy and family

Location: Carmichaels, PA

Gas Facility: Compressor station 780 feet away

Exposure: Air

any rights to our land to a private corporation is repugnant to my mother, to me and my sister" Boone said.

http://www.roanoke.com/news/local/franklin_county/confusion-over-land-access-continues-as-pipeline-surveyors-charged-with/article_05a9845d-ee20-59c9-b789-e55a969e4afc.html

16714. Juan Renteria

Location: Ward County, TX

Gas Facility: Well site

Exposure: Fire/explosion

Symptoms: Severely injured during blaze, which was also described as an explosion.

<http://www.firehouse.com/news/12103145/olfield-worker-recovering-after-well-fire>

16715. Mark and Maureen Bydalek

Location: Hunterdon County, NJ

Gas Facility: PennEast pipeline

Exposure: Land

Symptoms: Pipeline will sever their working family farm in half and will run the full width, passing within 200 feet of home and well. PennEast surveyors trespassed. Property will be devalued and damaged.

<http://thecostofthepipeline.com/tag/environment/>

16716. Holly Lovelace

Location: Franklin County, MA

Gas Facility: Kinder Morgan compressor station

Exposure: Land – eminent domain

Symptoms: "I don't have a lot of money to hire a lawyer. I don't have a lot of skill dealing with giant corporations and I'm really frightened, and I hope my town can help me not lose everything I've ever made in my life." Attorneys have told her the home is un-sellable and un-insurable because of the pipeline and compressor station.

http://www.recorder.com/home/17285623-95/-hope-my-town-can-help-me-says-compressor-siting-effectively-condemns-her-northfield#.VXq8zE4O_8k.facebook

16717. Rodrigo Romo and family

Location: Kern County, CA

Gas Facility: 45 fracked wells within 2 miles of daughter's school

Exposure: Air

Symptoms: Unexplainable epileptic attacks

<http://www.theguardian.com/commentisfree/2015/aug/20/45-fracked-wells-2-miles-daughters-school-discrimination>

16718-16719. Linda Quodomine, Carol Mohr

Location: Columbia County, PA

Gas Facility: Williams' Atlantic sunrise pipeline

Exposure: Land – eminent domain

Symptoms: Williams wants to use eminent domain to build a gas compressor station 500 feet from the Mohr's home. The pipeline would go through both the Quodomine home and the business, shutting the business down for a year and a half.

<https://www.youtube.com/watch?v=ME-7jvLFww&feature=youtu.be>

Many students at the school suffer from asthma and serious, debilitating illnesses.

Students were forced to stay inside for weeks at a time because of the noxious fumes from the fracking sites.

They think it's strange when people don't get nosebleeds every day.

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<https://www.youtube.com/watch?v=ME-7jvLFww&feature=youtu.be>

Dr Sarah Walpole



“The arguments against fracking on public health and ecological grounds are overwhelming.

There are clear grounds for adopting the precautionary principle and prohibiting fracking”

- *Letter in the British Medical Journal*

“Medact has carried out a thorough investigation of the potential health impacts of fracking, and taking into account impacts on local air quality, economy, water quality and climate change, we believe that more information is required before fracking can be declared safe and allowed to continue.”

Public Health England Report

- “Mistaking best practices for actual practices”
- “ignores many of the inherent risks ... that no amount of regulation can ... remedy”
- “There is no reason to believe that these problems would be different in the UK”

Public Health England Report

- “Mistaking best practices for actual practices”
- “ignores many of the inherent risks ... that no amount of regulation can ... remedy”
- “There is no reason to believe that these problems would be different in the UK”
- now out of date
- most research on health impacts published more recently

Dr Tim Thornton

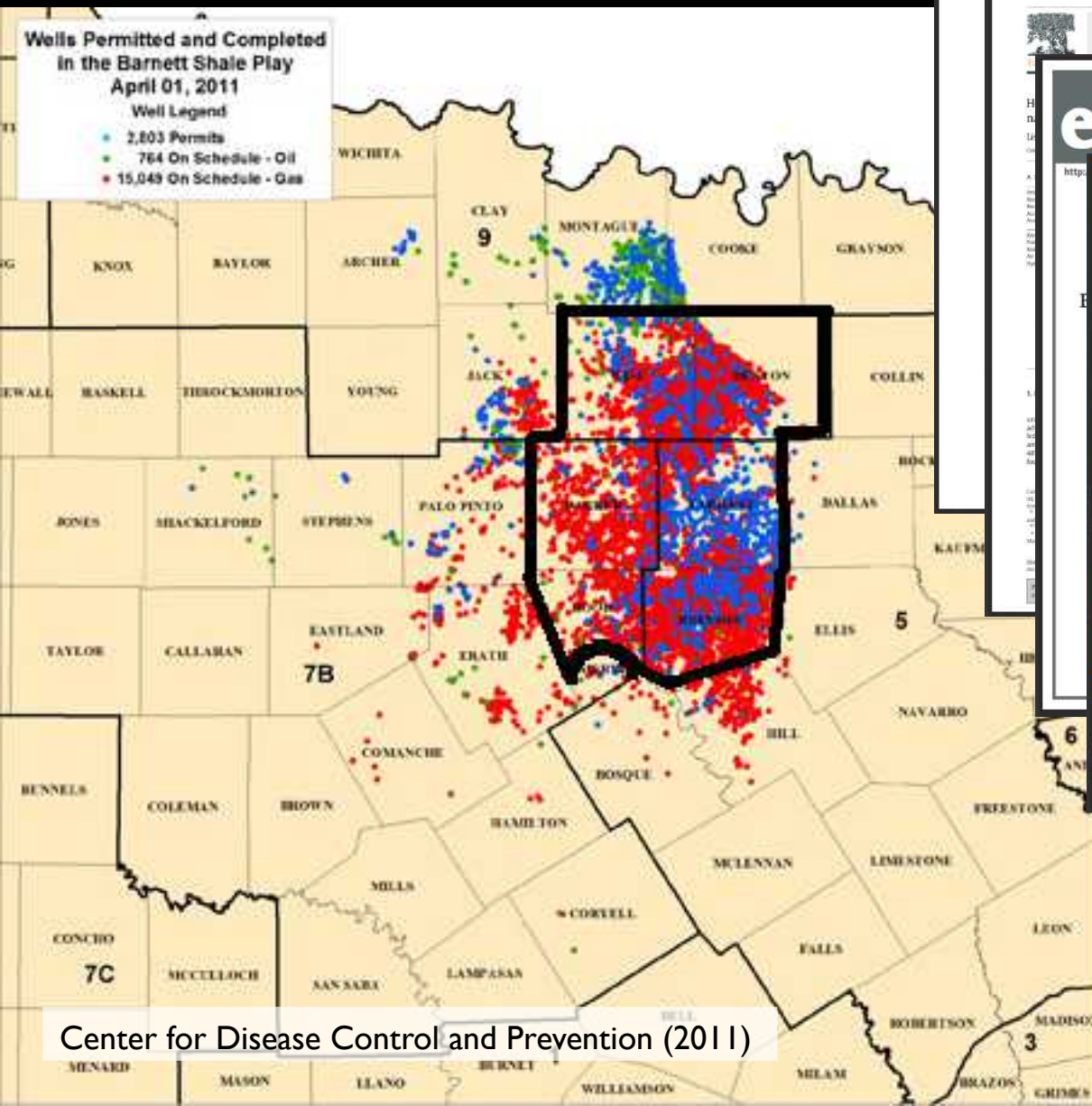


“Fracking is a novel process, only 10-15 years old.

The science investigating its safety is quite new but already shows risk and impacts including health impacts.

Until it can be shown by peer-reviewed science to be safe, we should not rush ahead with it in the UK.”

Impacts: Health



Center for Disease Control and Prevention (2011)

WP 2012-12
ARTICLE IN PRESS
Science of the Total Environment

ehp ENVIRONMENTAL HEALTH PERSPECTIVES
Reckless Endangerment

Endocrinology, First published ahead of print December 16, 2013 as doi:10.1210/en.2013-1697

ehp ENVIRONMENTAL HEALTH PERSPECTIVES
Symptomatology of a gas field
An independent health survey in the Tara rural residential estates and environs

CSG Product Water Discharge on local Catchment Roads

APRIL 2013 Geraldyn McCarraon MB BCH BAO FRACGP
geraldynmcc@inet.net.au

EARLY RELEASE: Endocrinology

Photo courtesy local resident

Impacts: Health

Wells Permitted and Completed
in the Barnett Shale Play
April 01, 2011

Well Legend

- 2,803 Permits
- 764 On Schedule - Oil
- 15,049 On Schedule - Gas

PLOS ONE

RESEARCH ARTICLE

Unconventional Gas and Oil Drilling Is Associated with Increased Hospital Utilization Rates

Thomas Jemielita^{1*}, George L. Gerton^{**}, Matthew Neideli¹, Steven Chillrud⁴, Beizhan Yan¹, Martin Stute¹, Marilyn Howarth², Pouné Saberi², Nicholas Fausti², Trevor M. Penning², Jason Roy¹, Kathleen J. Propert¹, Reynold A. Panettieri, Jr.^{2,*}

Studied 3 counties in Pennsylvania, population 160,000

Postcodes with fracking have significantly more hospital admissions for:

- heart
- nervous system



CrossMark

OPEN ACCESS

Citation: Jemielita T, Gerton GL, Neideli M, Chillrud S, Yan B, Stute M, et al. (2015) Unconventional Gas and Oil Drilling Is Associated with Increased Hospital Utilization Rates. PLoS ONE 10(7): e0131093. doi:10.1371/journal.pone.0131093

Editor: Jaymie Melker, Stony Brook University, Graduate Program in Public Health, UNITED STATES

Accepted: May 28, 2015
Published: July 15, 2015

Copyright: © 2015 Jemielita et al. This is an open access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Data Availability Statement: All relevant data are available in the paper and its Supporting Information files.

Funding: This work was funded by grants from the National Institute of Environmental Health Sciences (www.niehs.nih.gov): P30-ES013508 (GLG MH PS NF TMP JR KJP RAP) and P30-ES009089 (GLG MN SC BY MS MH PS NF TMP JR KJP RAP). The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

Abstract

Over the past ten years, unconventional gas and oil drilling (UGOD) has markedly expanded in the United States. Despite substantial increases in well drilling, the health consequences of UGOD toxicant exposure remain unclear. This study examines an association between wells and healthcare use by zip code from 2007 to 2011 in Pennsylvania. Inpatient discharge databases from the Pennsylvania Healthcare Cost Containment Council were correlated with active wells by zip code in three counties in Pennsylvania. For overall inpatient prevalence rates and 25 specific medical categories, the association of inpatient prevalence rates with number of wells per zip code and, separately, with wells per km² (separated into quantiles and defined as well density) were estimated using fixed-effects Poisson models. To account for multiple comparisons, a Bonferroni correction with associations of $p < 0.00096$ was considered statistically significant. Cardiology inpatient prevalence rates were significantly associated with number of wells per zip code ($p < 0.00096$) and wells per km² ($p < 0.00096$) while neurology inpatient prevalence rates were significantly associated with wells per km² ($p < 0.00096$). Furthermore, evidence also supported an association between well density and inpatient prevalence rates for the medical categories of dermatology, neurology, oncology, and urology. These data suggest that UGOD wells, which dramatically increased in the past decade, were associated with increased inpatient prevalence rates within specific medical categories in Pennsylvania. Further studies are necessary to address healthcare costs of UGOD and determine whether specific toxicants or combinations are associated with organ-specific responses.

Also associated with:

- skin
- cancer
- urinary

Center for Disease Control

WP 2012-12

MENTAL

VES

Reckless

Endangerment

ahead of print December 16, 2013 as doi:10.1210/en.2013-1697

gen and Androgen Receptor Activities of

ENVIRONMENTAL
HEALTH
DISORDER

Symptomatology of a gas field
dependent health survey in the Tara rural residential
estates and environs



CSG Product Water Discharge on coal field roads

Photo courtesy local resident

Geraldyn McCarrna MB BCh BAO FRACGP

geraldyn.mccarrna@hse.ie

Impacts: Health

EPIDEMIOLOGY

Unconventional Natural Gas Development and Birth Outcomes in Pennsylvania, USA. Unconventional gas development has expanded rapidly ... in Pennsylvania from 0 to 3,689 wells in 8 years. Pollak, Jonathan; Mercer, Dione G.; Schwartz, Brian S.

Prenatal residential exposure to unconventional natural gas development activity was associated with two pregnancy outcomes, adding to evidence that unconventional natural gas development may impact health.

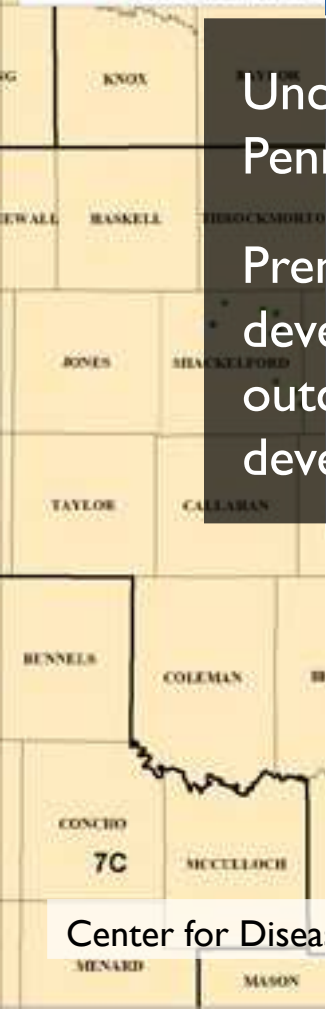
Abstract
Background: Unconventional natural gas development has expanded rapidly in Pennsylvania, USA. Although many scientific publications have focused on unconventional natural gas development and birth outcomes.

Methods: We performed a retrospective cohort study using electronic health record data on 9,384 mothers linked to 10,946 neonates in the Geisinger Health System from January 2009 to January 2013. We estimated cumulative exposure to unconventional natural gas development activity with an inverse-distance squared model that incorporated distance to the mother's home; dates and durations of well pad development, drilling, and hydraulic fracturing; and production volume during the pregnancy. We used multilevel linear and logistic regression models to examine associations between activity index quartile and term birth weight, preterm birth, low 5-minute Apgar score and small size for gestational age birth, while controlling for potential confounding variables.

Results: In adjusted models, there was an association between unconventional natural gas development activity and preterm birth that increased across quartiles, with a fourth quartile odds ratio of 1.4 (95% confidence interval = 1.0, 1.9). There were no associations of activity with Apgar score, small for gestational age birth, or term birth weight (after adjustment for year). In a posthoc analysis, there was an association with physician-recorded high-risk pregnancy identified from the problem list (fourth vs. first quartile, 1.3 [95% confidence interval = 1.1, 1.7]).

Conclusion: Prenatal residential exposure to unconventional natural gas development activity was associated with two pregnancy outcomes, adding to evidence that unconventional

Wells Permitted and Completed in the Barnett Shale Play April 01, 2011
Well Legend
2,803 Permits
764 On Schedule - Oil
15,049 On Schedule - Gas



Center for Disease

ology of a gas field
survey in the Tara rural residential
sites and environs



Photo courtesy local resident

from MB BCa BAO FRACGP
enact.au

Letters to Governor Cuomo

Since Governor Cuomo's inauguration in January 2010, hundreds of health professionals and organizations from across the state of New York have called on his administration to conduct an independent, comprehensive Health Impact Assessment. Below are the letters.

May 29, 2014

February 27, 2013

October 4, 2012

March 16, 2012

December 12, 2011

October 5, 2011

March 26, 2011

February 28, 2011

The Honorable Andrew M. Cuomo

Governor of New York State
NYS State Capitol Building
Albany, NY 12224

Acting Health Commissioner Howard A. Zucker
New York State Department of Health
Corning Tower
Empire State Plaza,
Albany, NY 12237

Dear Governor Cuomo and Acting Health Commissioner Zucker,

We, the undersigned physicians, nurses, researchers and public health professionals, write to update you on the alarming trends in the data regarding the health impacts of hydraulic fracturing (fracking) in New York. The data from the New York State Department of Health (NYS DOH) and the New York State Department of Environmental Conservation (NYS DEC) (Physicians Scientists & Engineers for Healthy Energy (PSE), 2014) and hundreds of additional reports and case examples—shows that permitting fracking in New York would pose significant threats to the air, water, health and safety of New Yorkers. At the same time, new assessments from expert panels also make clear that fundamental data gaps remain and that the best available regulatory frameworks fall far short of protecting our health and our environment.

Evidence linking water contamination to fracking—related activities is now indisputable.

The structural integrity of wells can fail. These failures are common, unavoidable, and increase over time as wells age and cement and casings deteriorate.

Air quality impacts from fracking—related activities are clearer than ever.

Community and social impacts of fracking can be widespread, expensive, and deadly.

Impacts: House Prices



*“We managed eventually to sell the house ...
at a very big loss, just over £50,000.”*

Marie and Roland Taylor, Lancashire

Impacts: House Prices


THE SUNDAY TIMES

Fracking digs deep hole in house values



*“We managed eventually to sell the house ...
at a very big loss, just over £50,000.”*

Marie and Roland Taylor, Lancashire



Dianne Westgarth said the price of her five-bedroom house on the Fylde peninsula in Lancashire - just 300 yards from a site where a drilling firm wants to start fracking - had dropped by 70 per cent

FRACKING could be such a blight on homes near drilling sites that they will be placed into lower council tax bands, the government's property valuation agency admits.

The Valuation Office Agency (VOA), which sets the values of properties for council tax purposes, said any industrial or commercial development near homes, potentially including fracking sites, could reduce their value.

Impacts: Rural Economy

The government has announced that local authorities will benefit by receiving a tax rebate from business rates which can be invested in local services. REDACTED

as an initial benefit, equivalent to total UK payments of between £3 and £12 million. Meanwhile, the government recently announced that English councils which give the go-ahead to shale gas developments will be allowed to keep 100 per cent of the business rates they collect from consented sites. This is estimated to be worth up to £1.7m a year for a typical site.

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

REDACTED

- house prices likely to fall
- higher insurance cost
- risk to human health

“Shale gas development may transform a previously pristine and quiet natural region, bringing increased industrialisation...”

Fracking is not permitted in...

Wales

Scotland

Northern Ireland

France

Netherlands

Germany

Bulgaria

Fracking is not permitted in...

Wales

Scotland

Northern Ireland

France

Netherlands

Germany

Bulgaria

New York State

the state of Vermont

the state of Maryland

Beverly Hills

the town of Denton, Texas

(overturned)

Fracking is not permitted in...

Wales

Scotland

Northern Ireland

France

Netherlands

Germany

Bulgaria

New York State

the state of Vermont

the state of Maryland

Beverly Hills

the town of Denton, Texas

(overturned)

Opposed in: Hull, Ryedale (North Yorkshire), York, Brighton and Hove, Calderdale (West Yorkshire), Ceredigion, Cheshire East, Cheshire West and Chester, Cinderford Town Council (Forest of Dean), Bristol, Deal Town, Dover District, Eastbourne Borough Council, Forest of Dean District Council, Glastonbury, Gloucestershire, Kirklees (West Yorkshire), Leeds, London Assembly, Manchester, Newcastle, Preston, Sheffield, Torfaen County Borough Council, Trafford, Westhoughton Town, West Dean Parish Council (Forest of Dean), and Wirral.



European Parliament

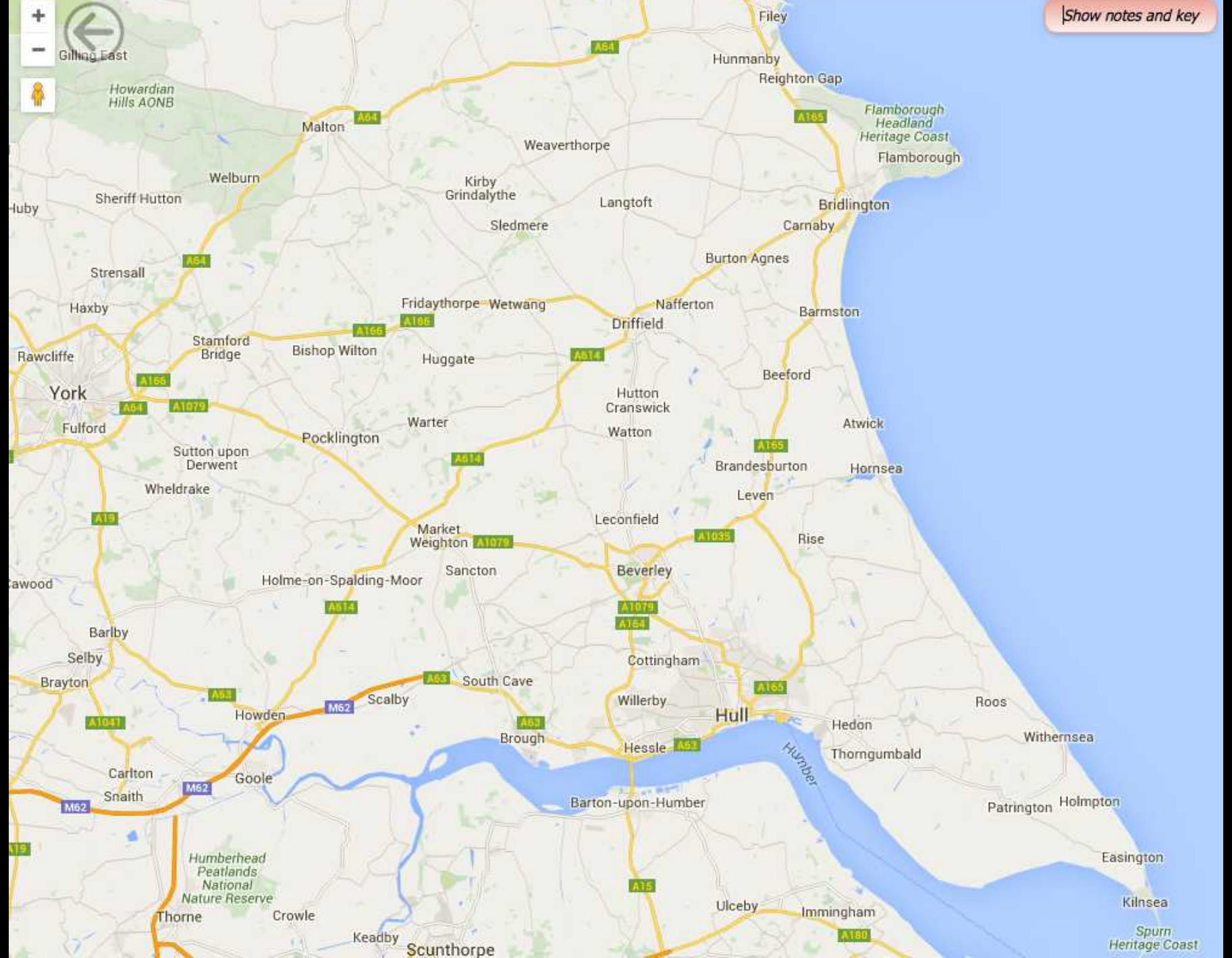
urges the precautionary principle
and not to permit any new fracking

U.N. Global Alert

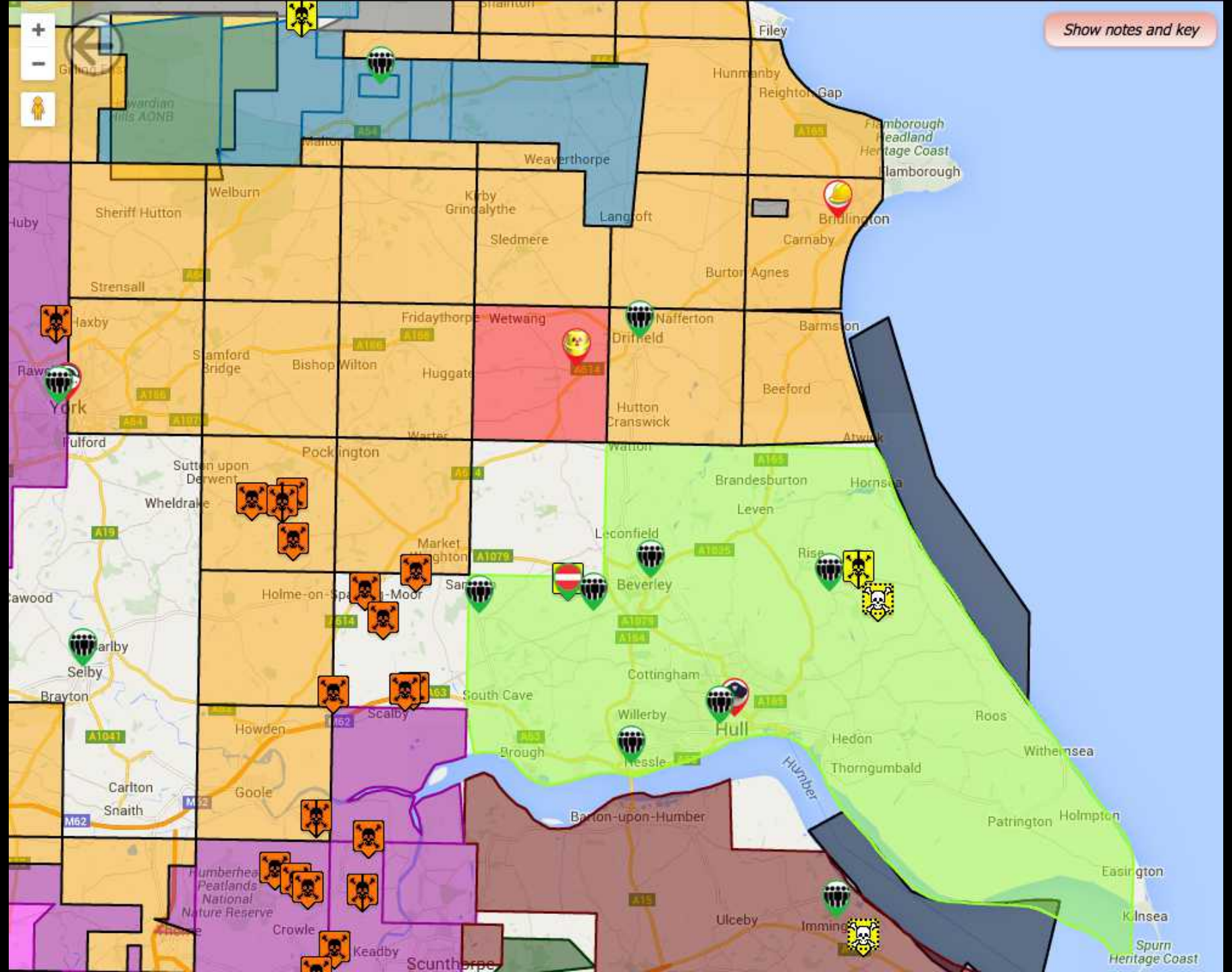


warns of risks even if fracking is done properly

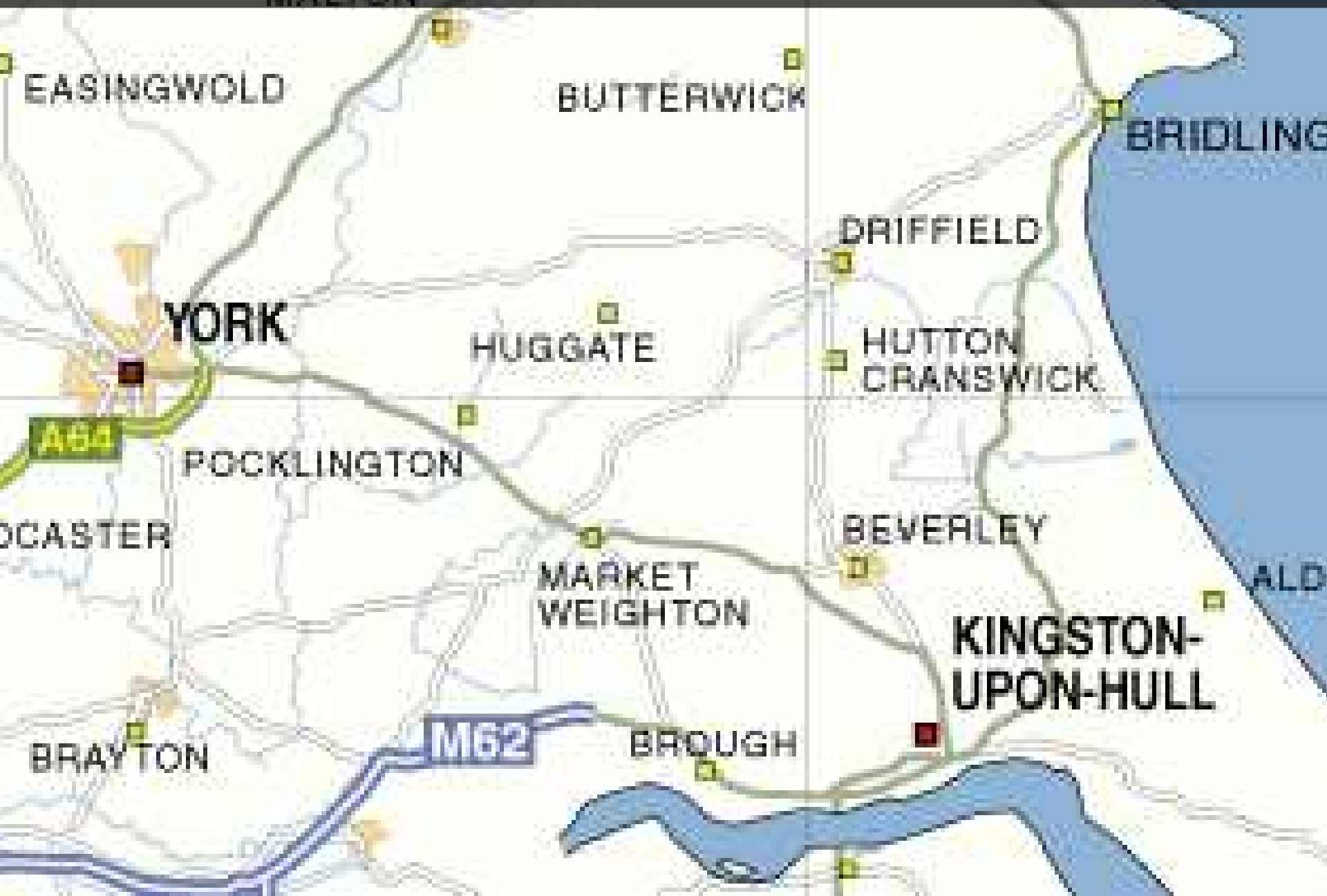
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Show notes and key



Scale of Industrialisation



Scale of Industrialisation

East Yorkshire 2016
2 active well sites

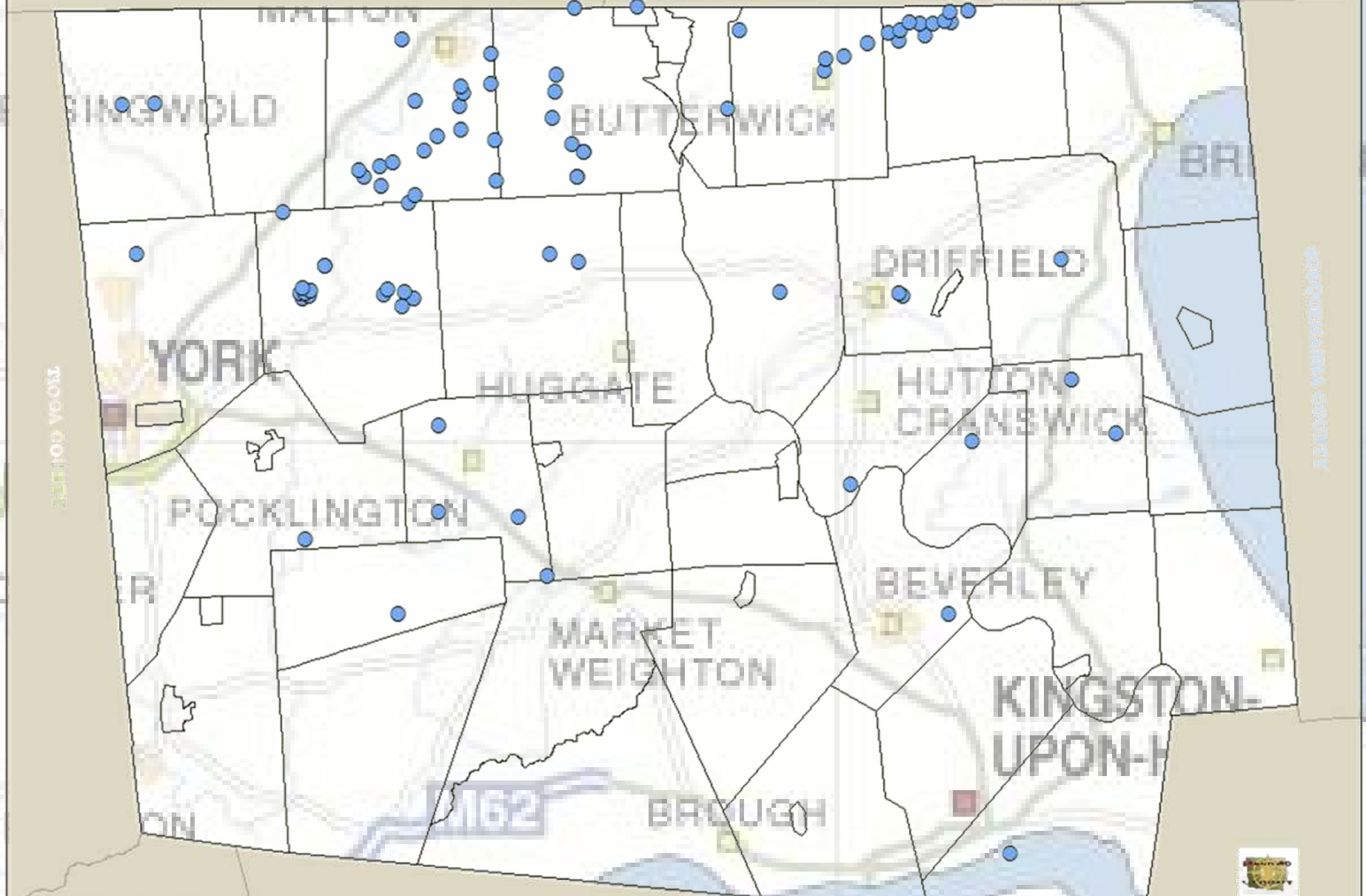


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

JULY 2008



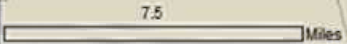
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TIOGA COUNTY

LYCOMING COUNTY

SULLIVAN COUNTY

WYOMING COUNTY

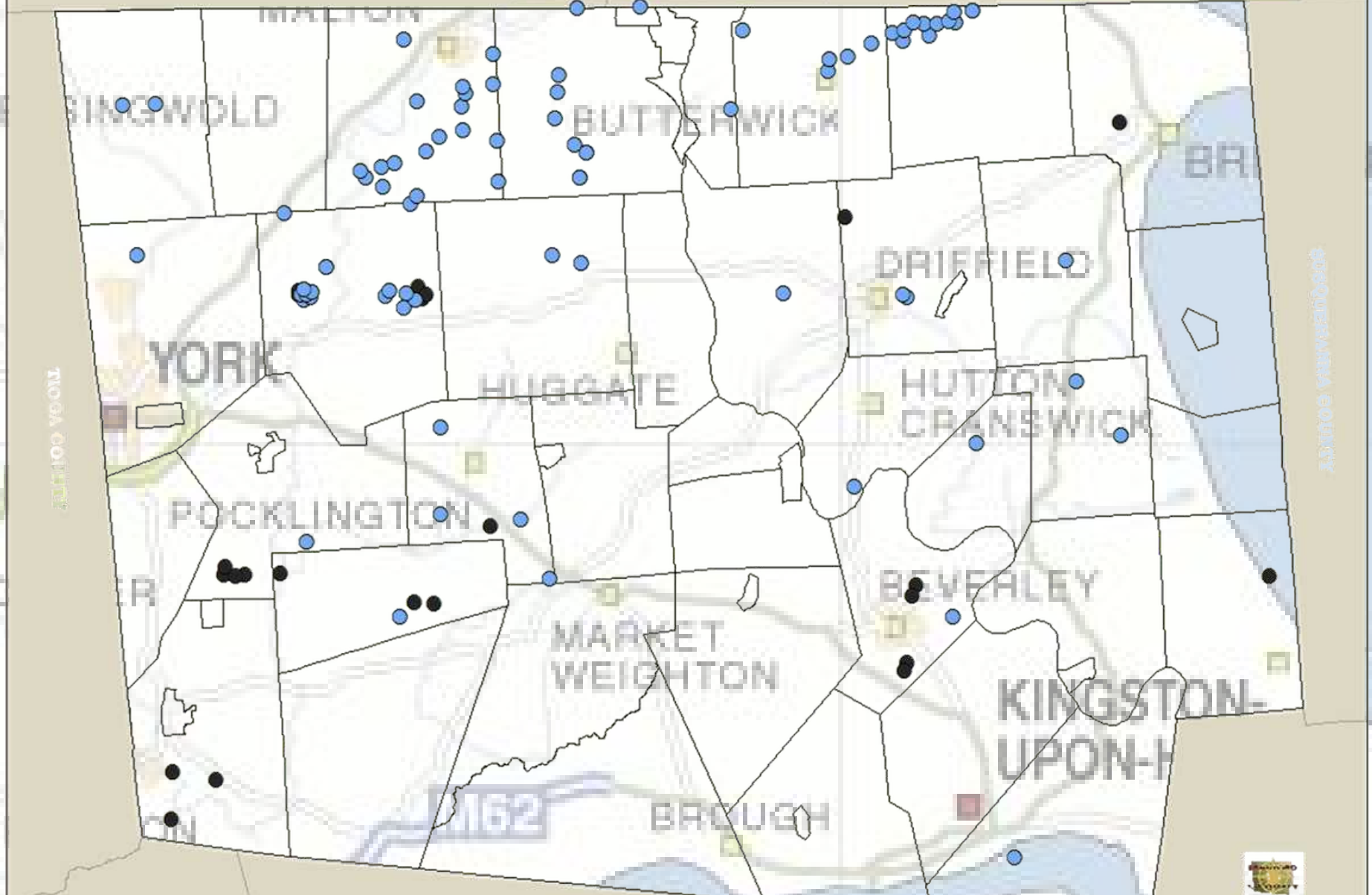


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

OCTOBER 2008



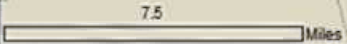
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SULLIVAN COUNTY

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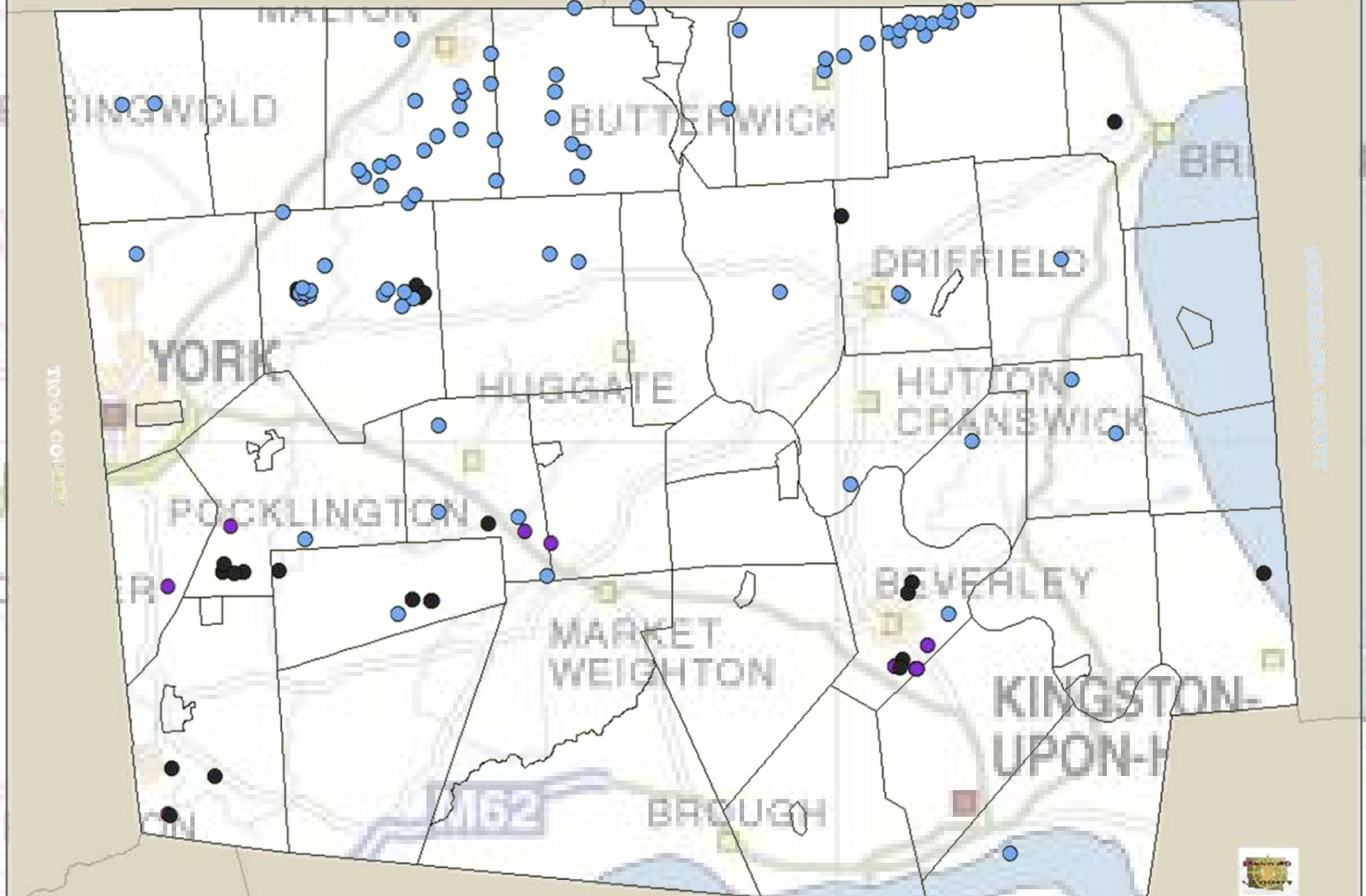


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

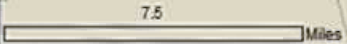
JANUARY 2009



LYCOMING COUNTY

SULLIVAN COUNTY

WYOMING COUNTY

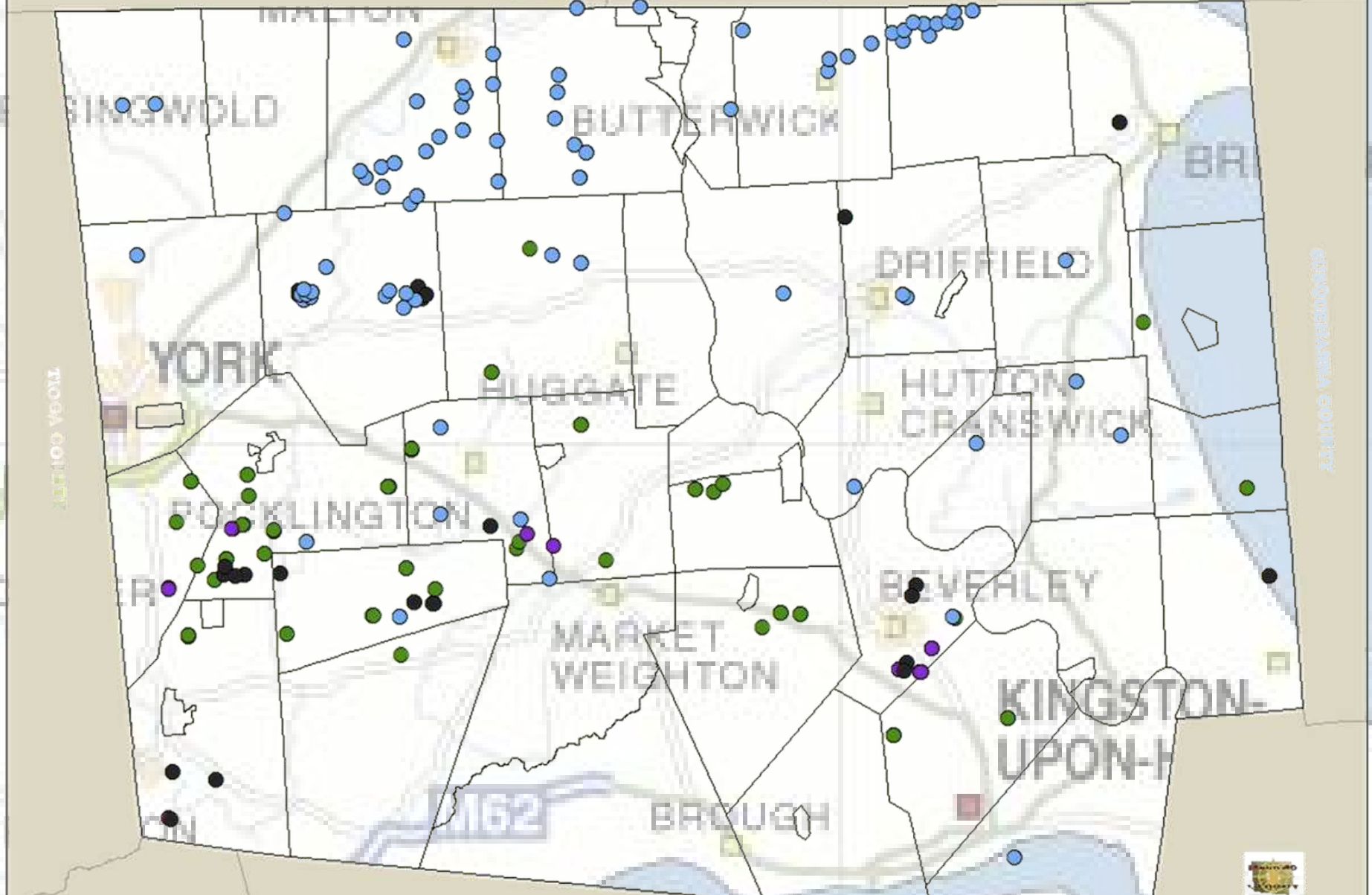


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

APRIL 2009



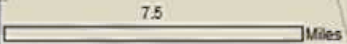
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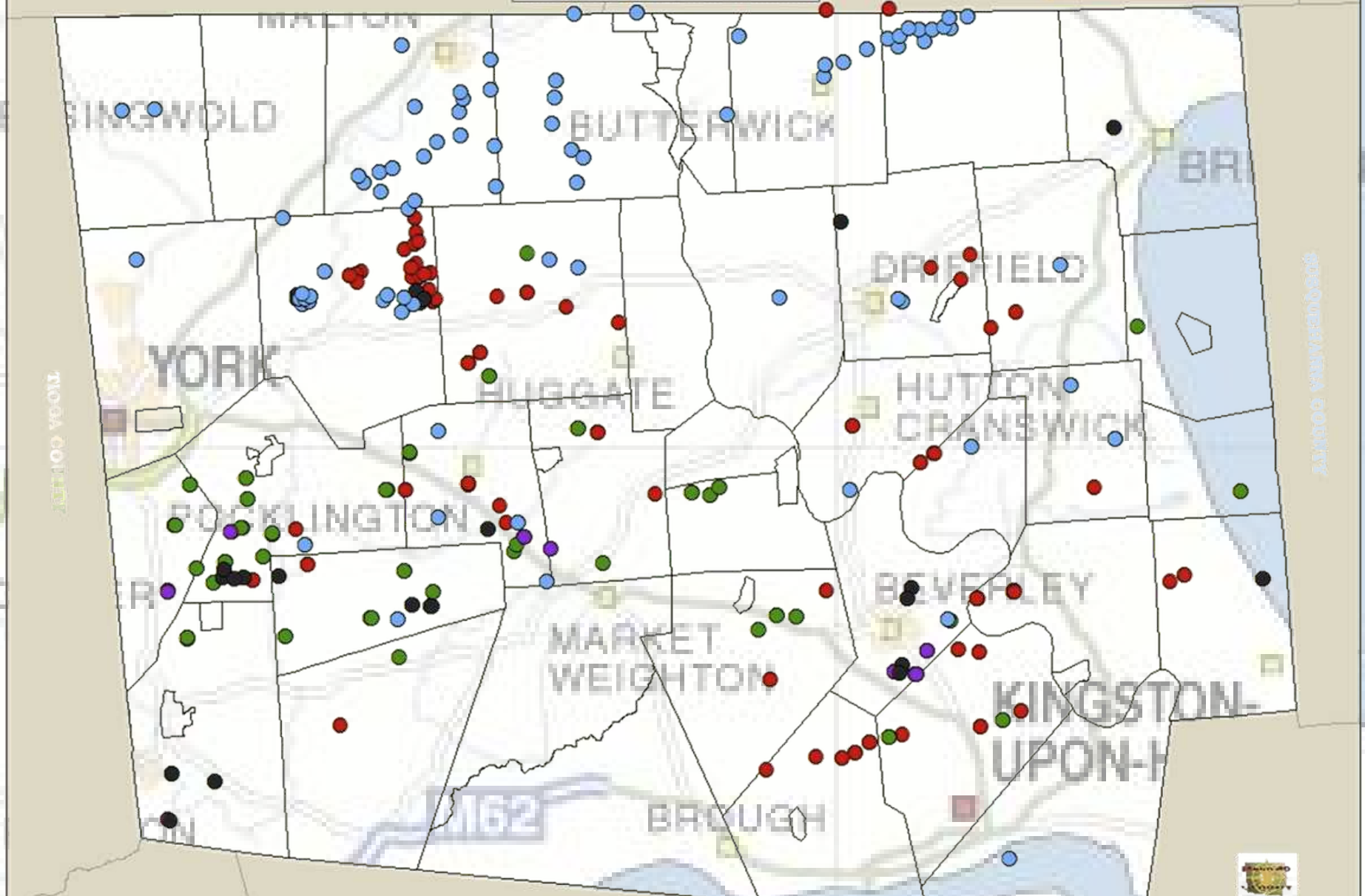


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

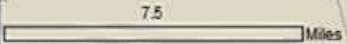
JULY 2009



LYCOMING COUNTY

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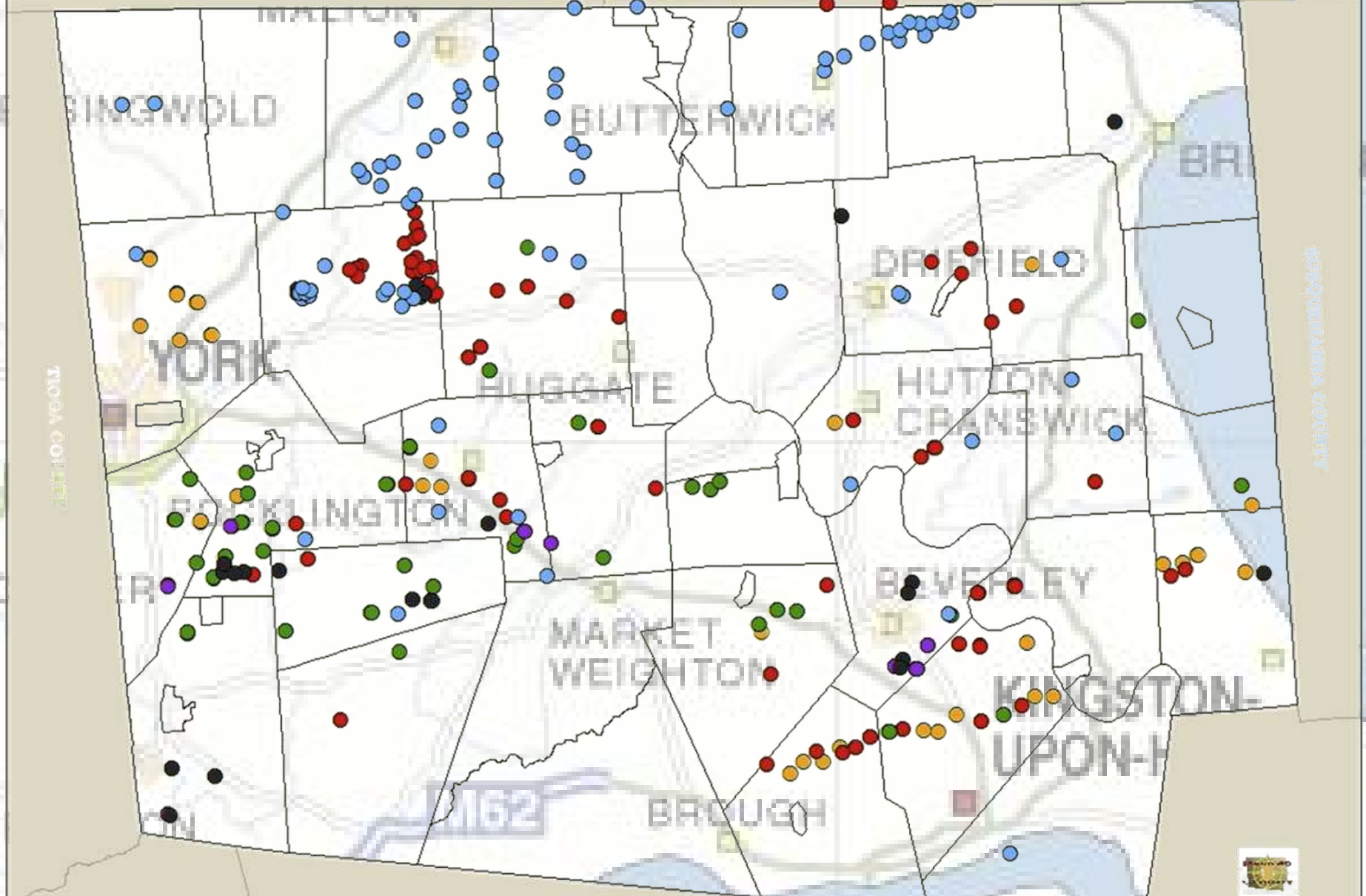


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QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

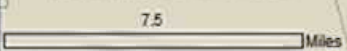
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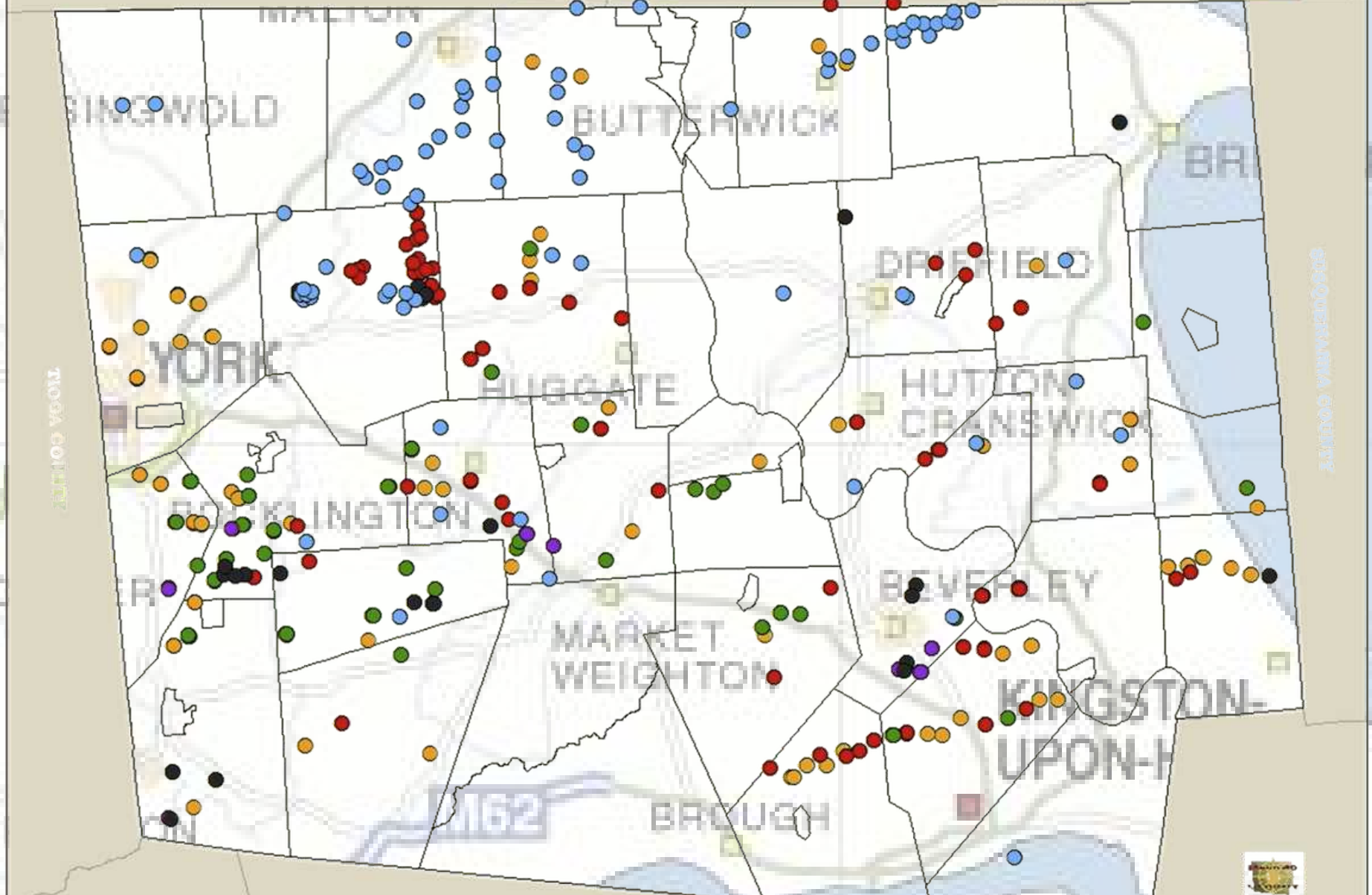


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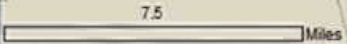
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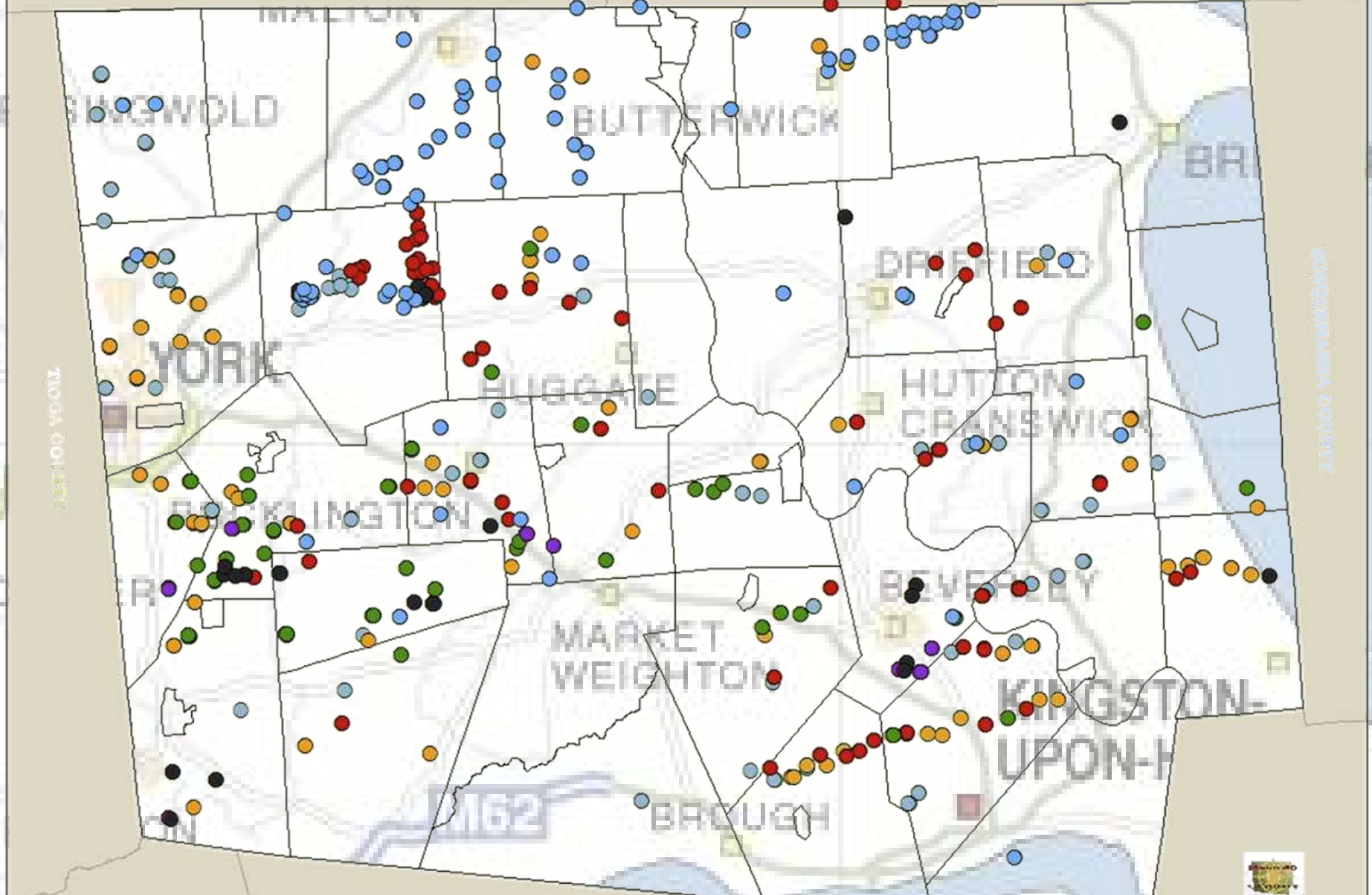


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

APRIL 2010



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SULLIVAN COUNTY

WYOMING COUNTY

7.5

Miles

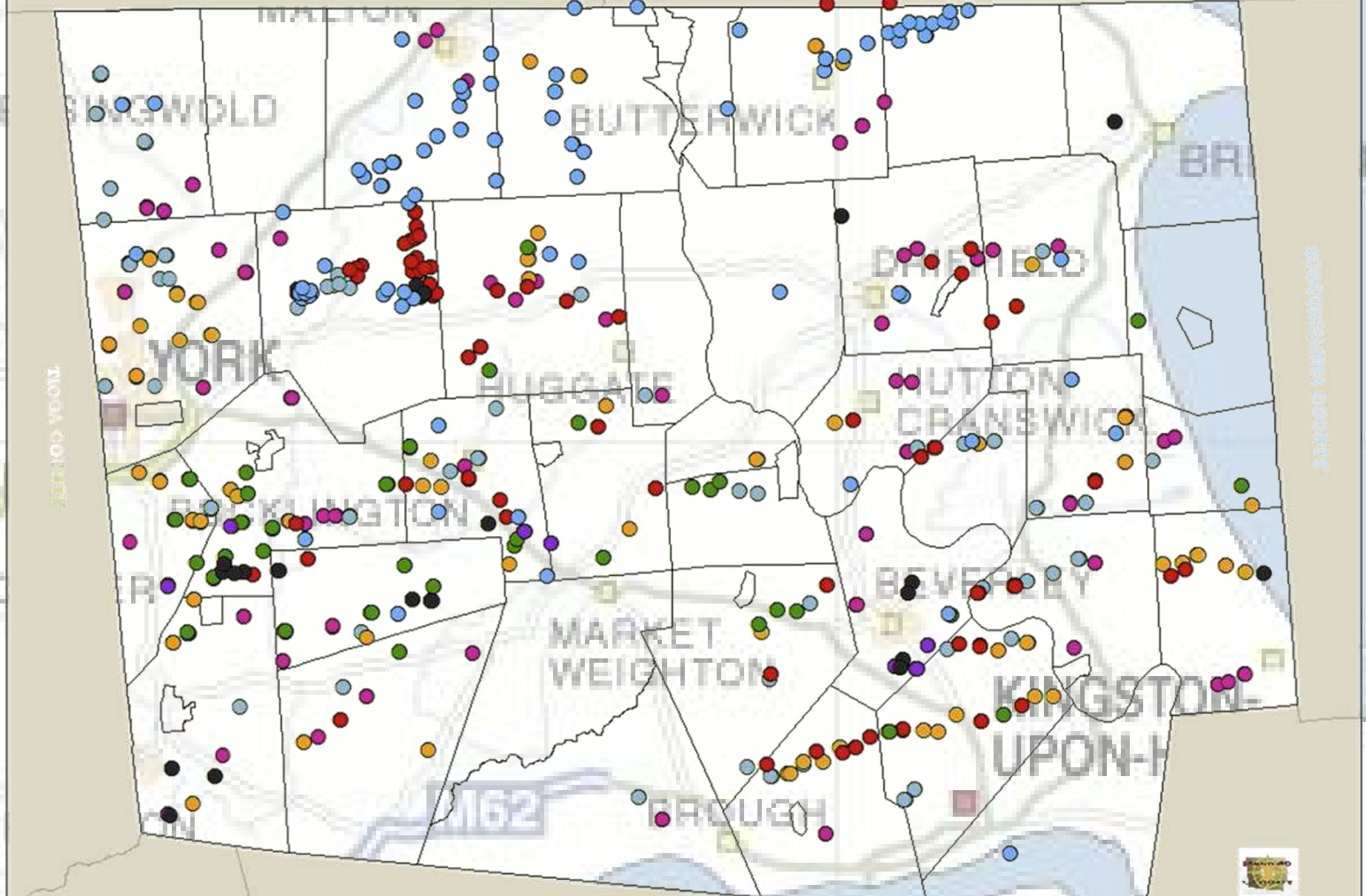


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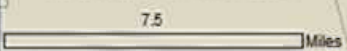
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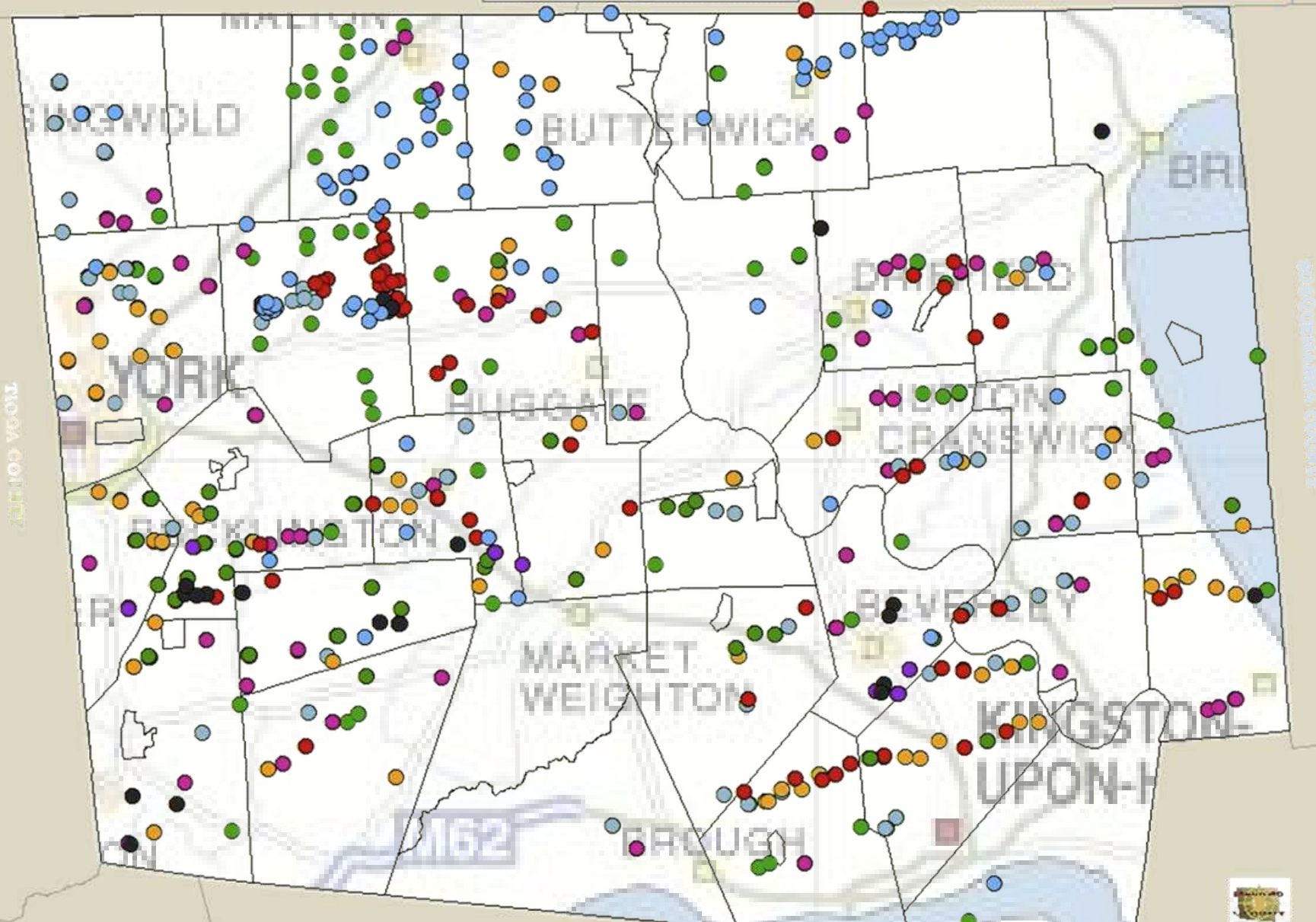


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

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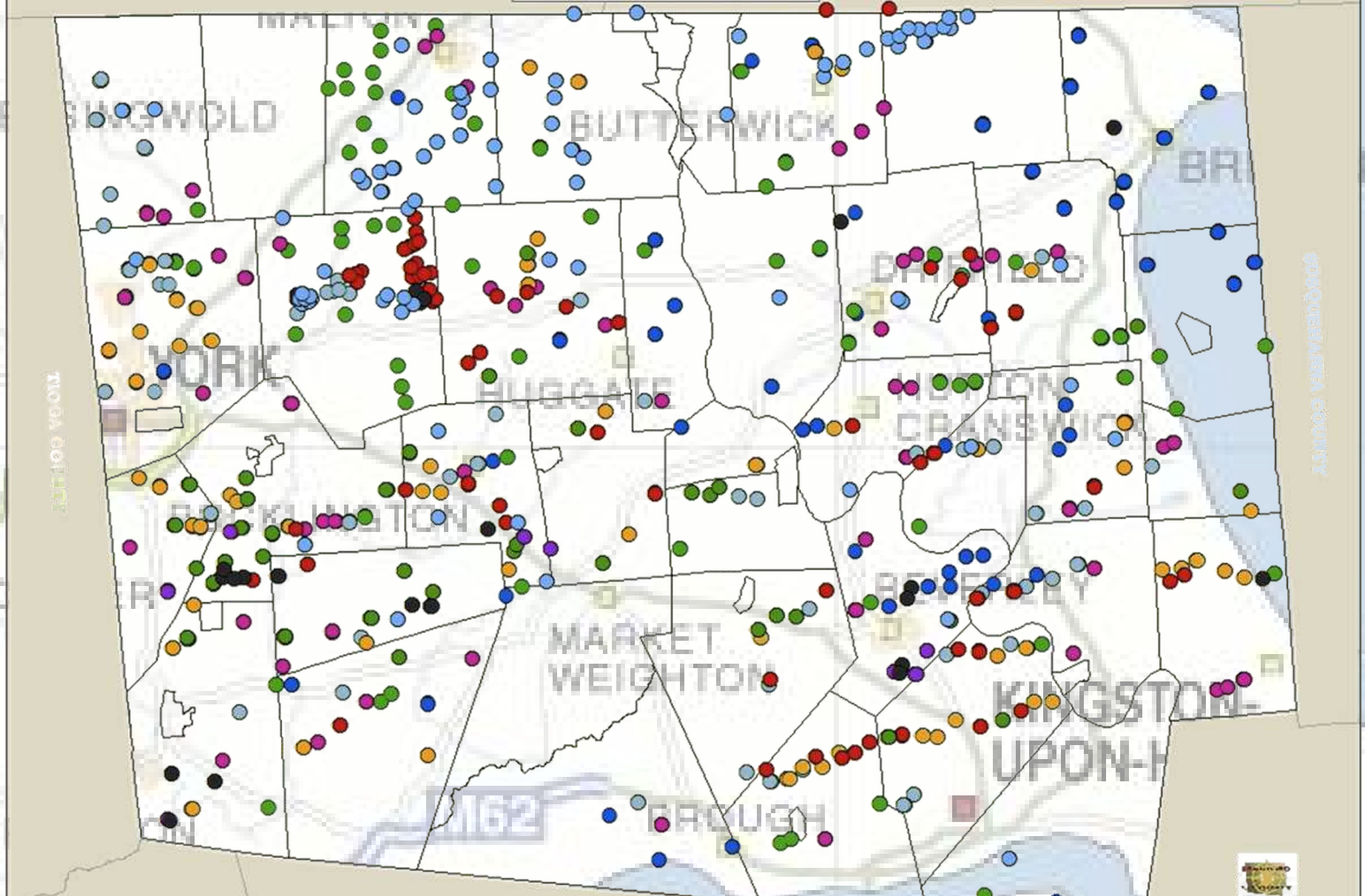


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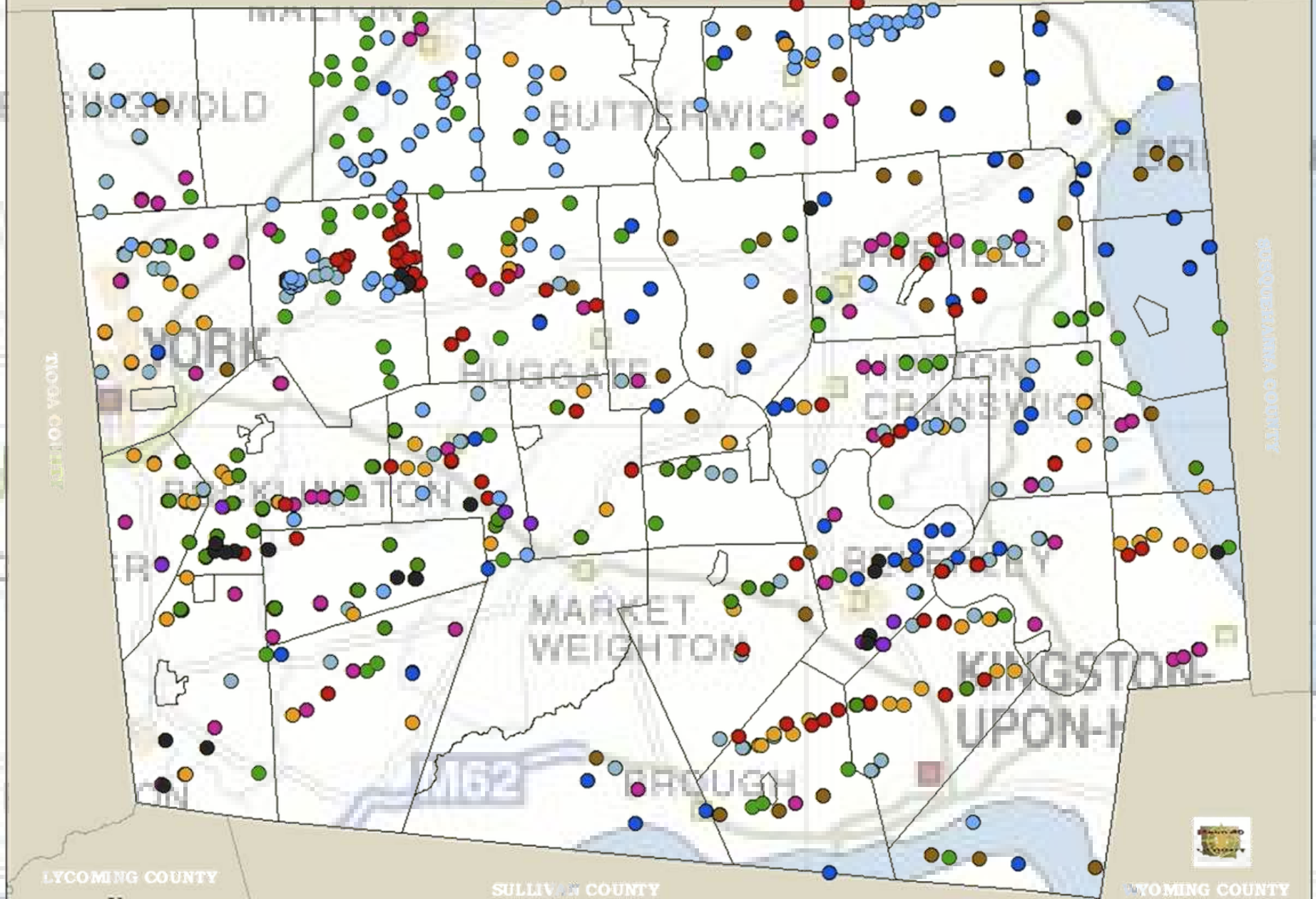


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OF GAS WELL PERMITS

TIOGA COUNTY

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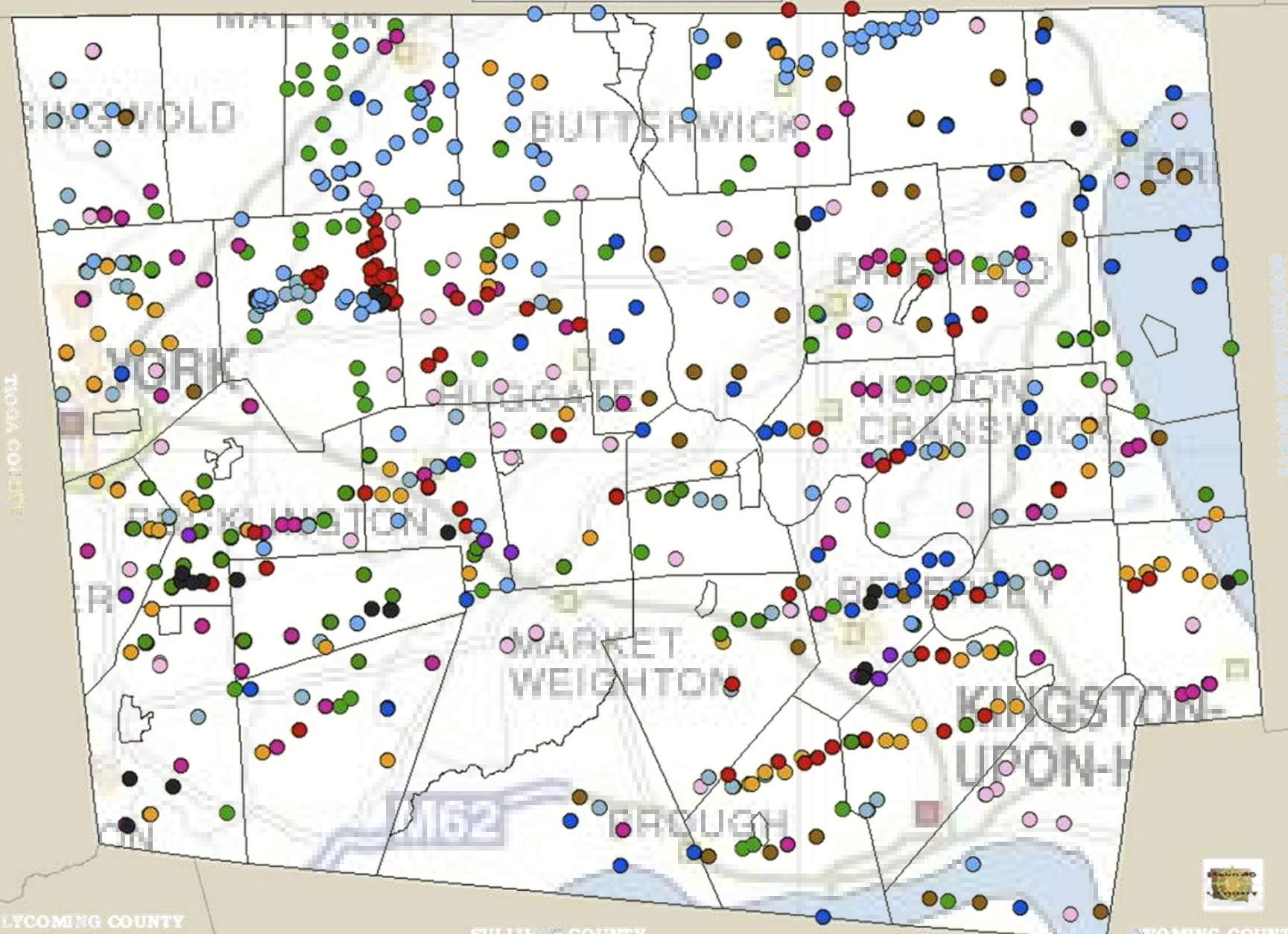


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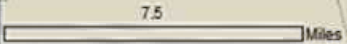
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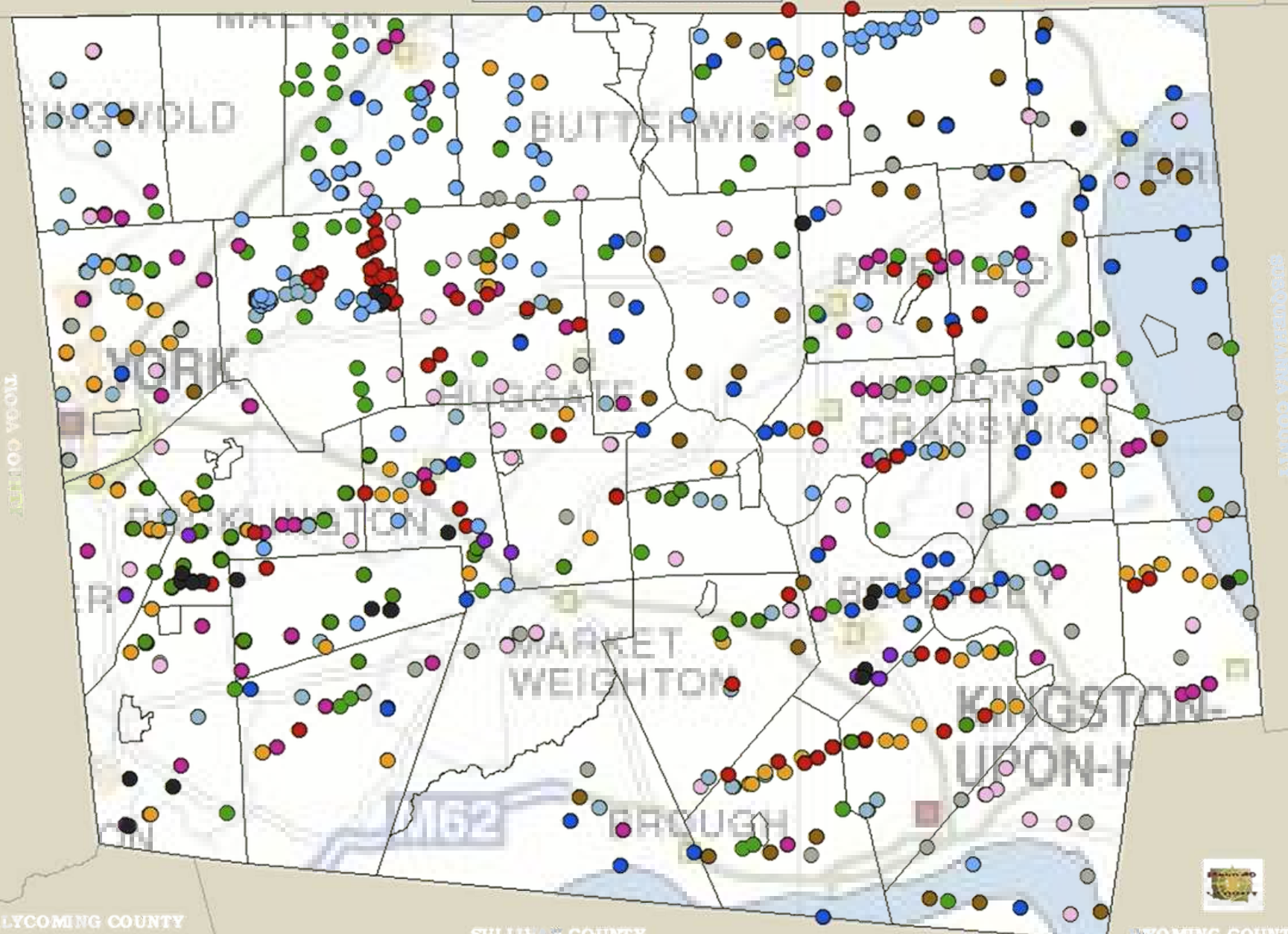


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QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

OCTOBER 2011



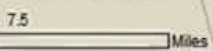
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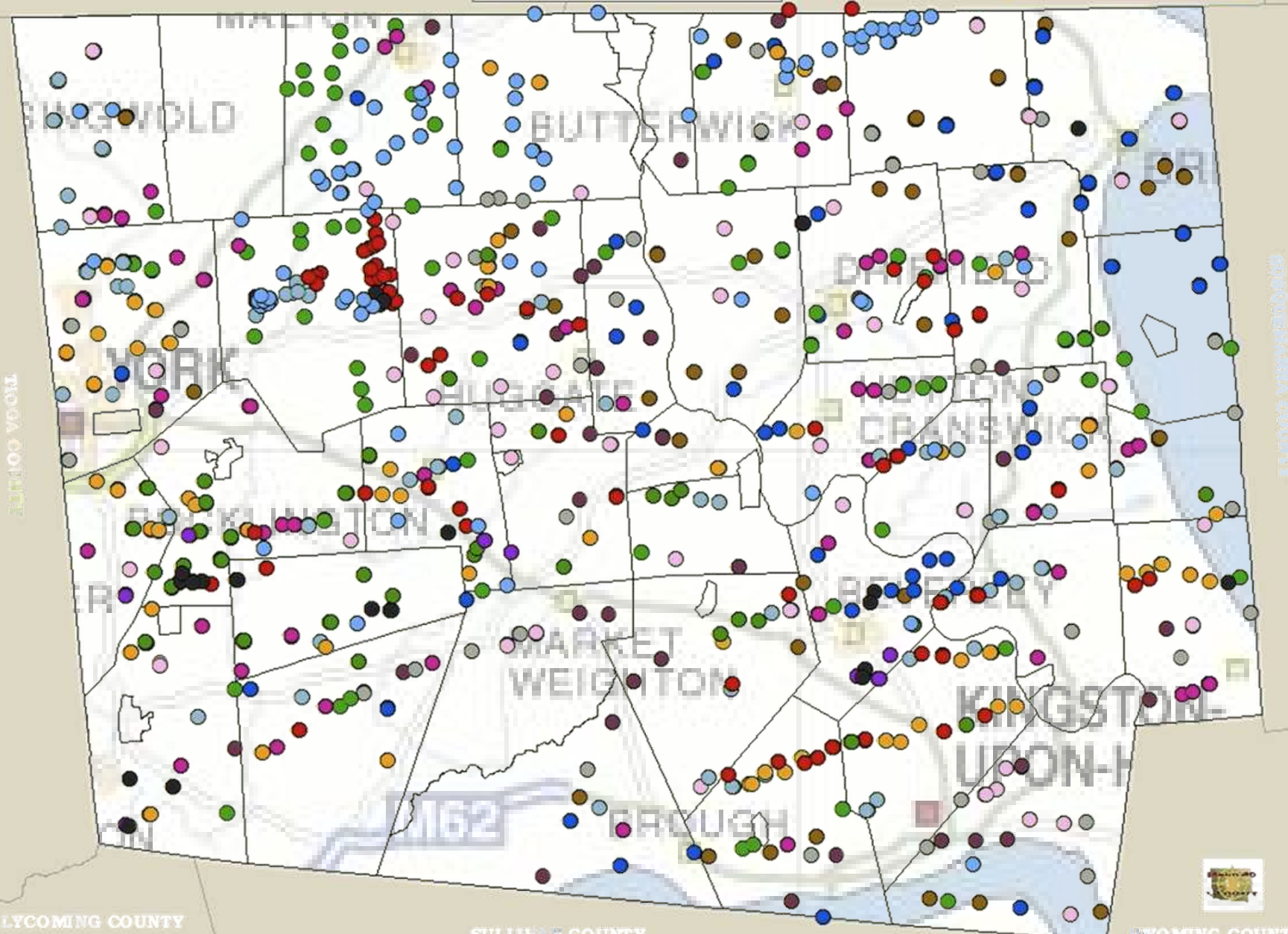


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

JANUARY 2012



LYCOMING COUNTY

SULLIVAN COUNTY

WYOMING COUNTY

7.5 Miles

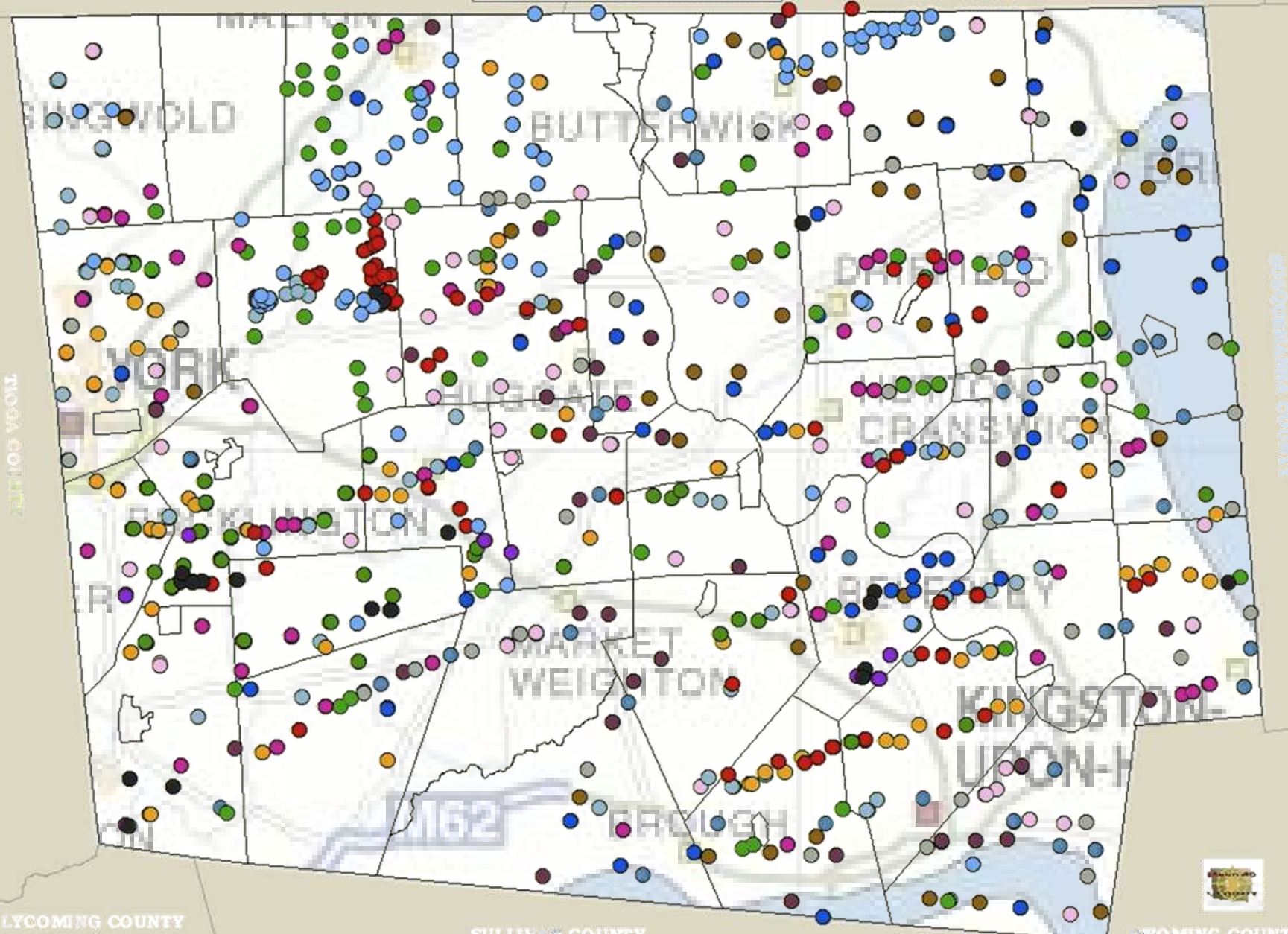


CHEMUNG COUNTY

QUARTERLY PROGRESSION OF GAS WELL PERMITS

TIOGA COUNTY

APRIL 2012



LYCOMING COUNTY

SULLIVAN COUNTY

WYOMING COUNTY



CHEMUNG COUNTY

QUARTERLY PROGRESSION
OF GAS WELL PERMITS

TIOGA COUNTY

JULY 2012



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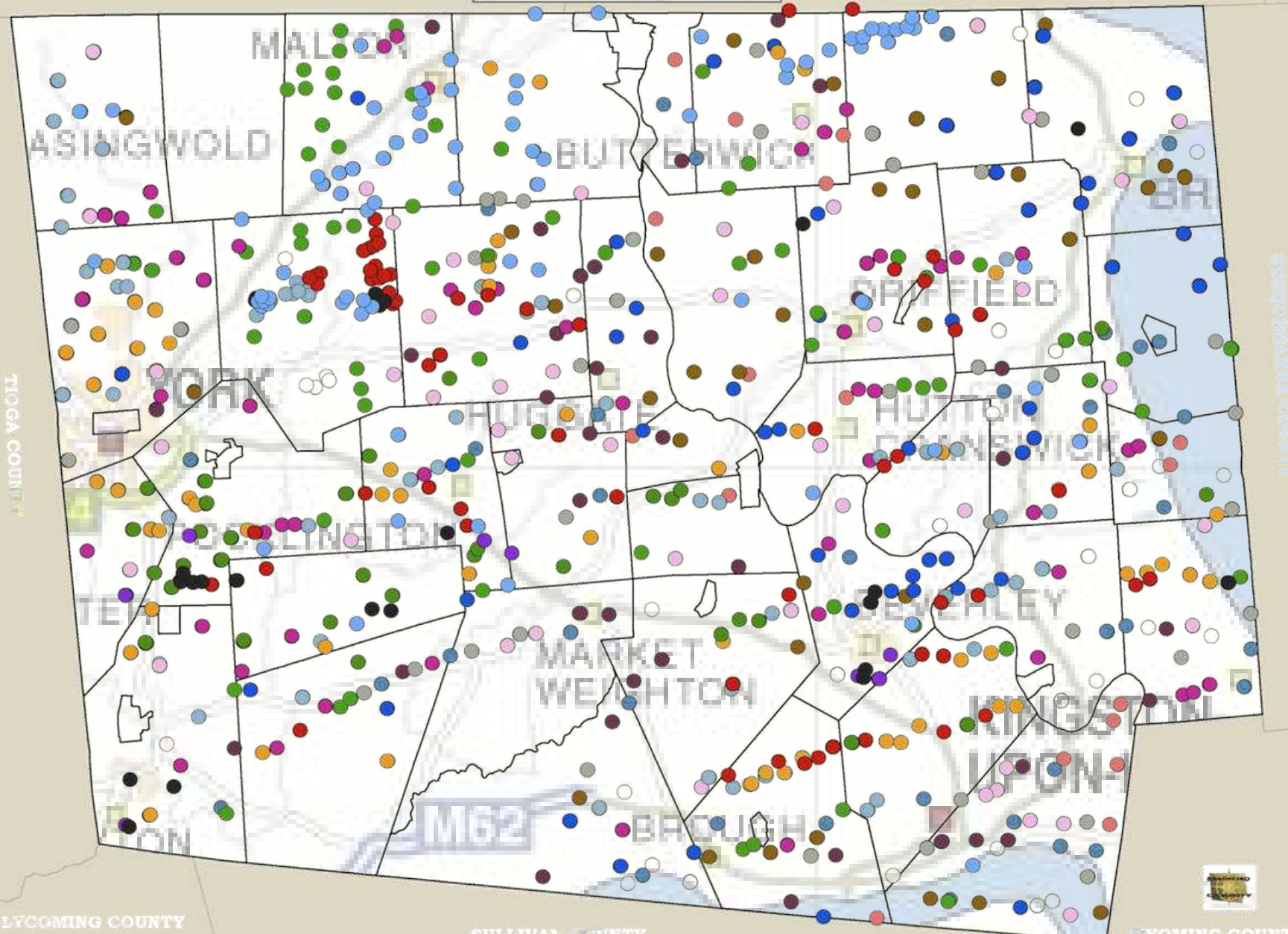


CHEMUNG COUNTY

QUARTERLY PROGRESSION
OF GAS WELL PERMITS

TIOGA COUNTY

OCTOBER 2012



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SULLIVAN COUNTY

WYOMING COUNTY

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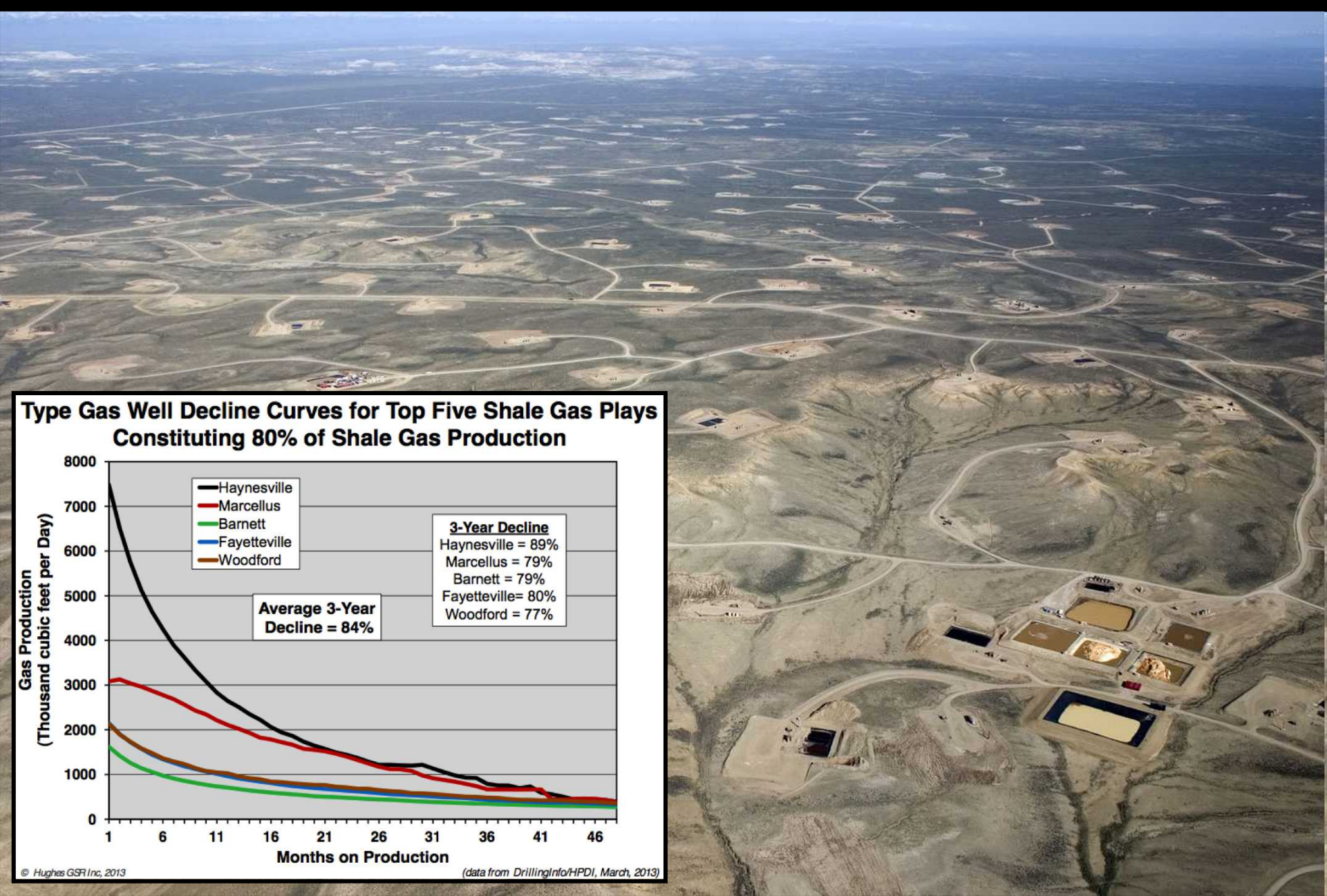
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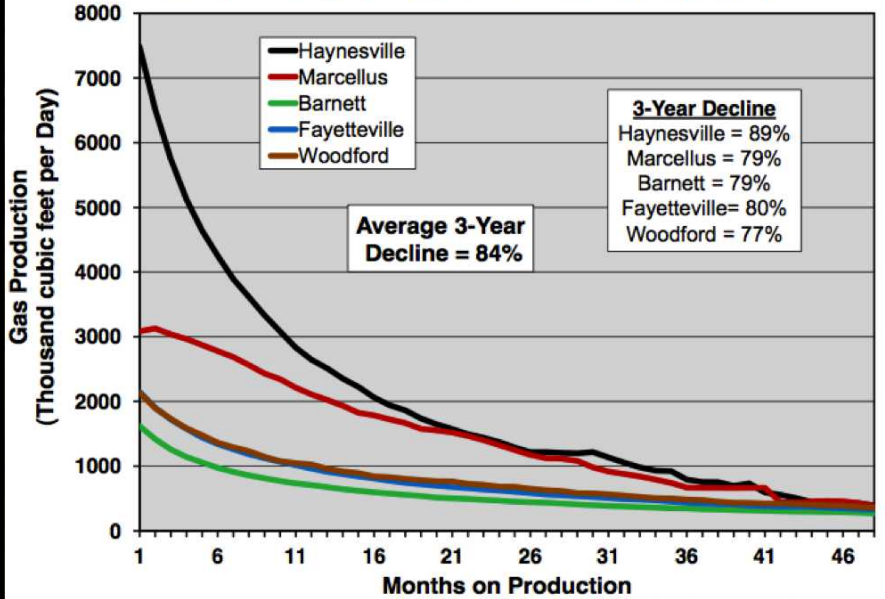
Scale of Industrialisation



Scale of Industrialisation

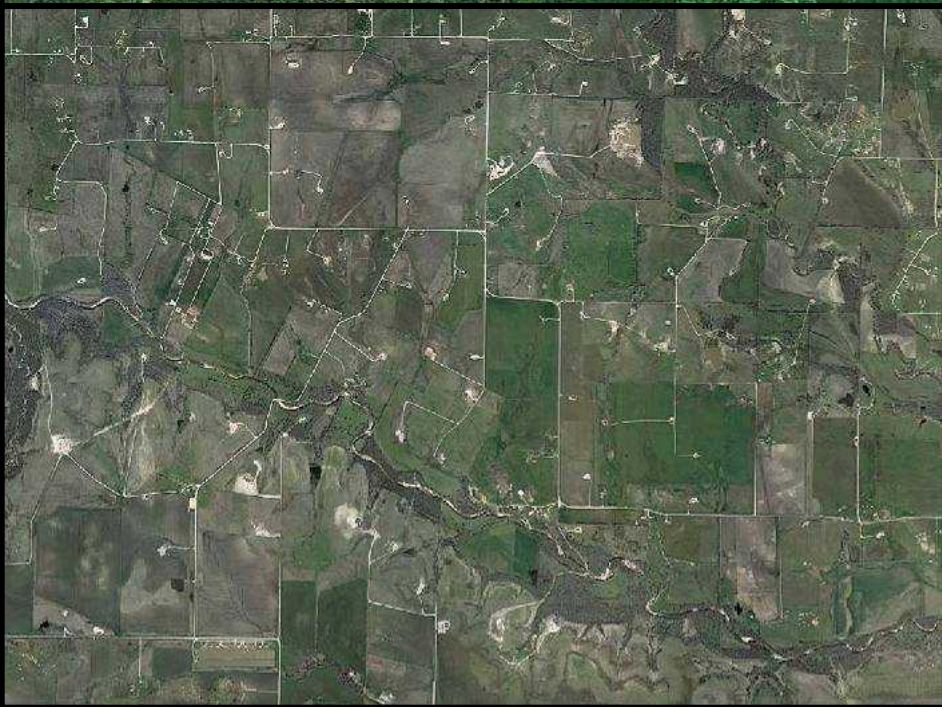


Type Gas Well Decline Curves for Top Five Shale Gas Plays Constituting 80% of Shale Gas Production



© Hughes GSF Inc, 2013

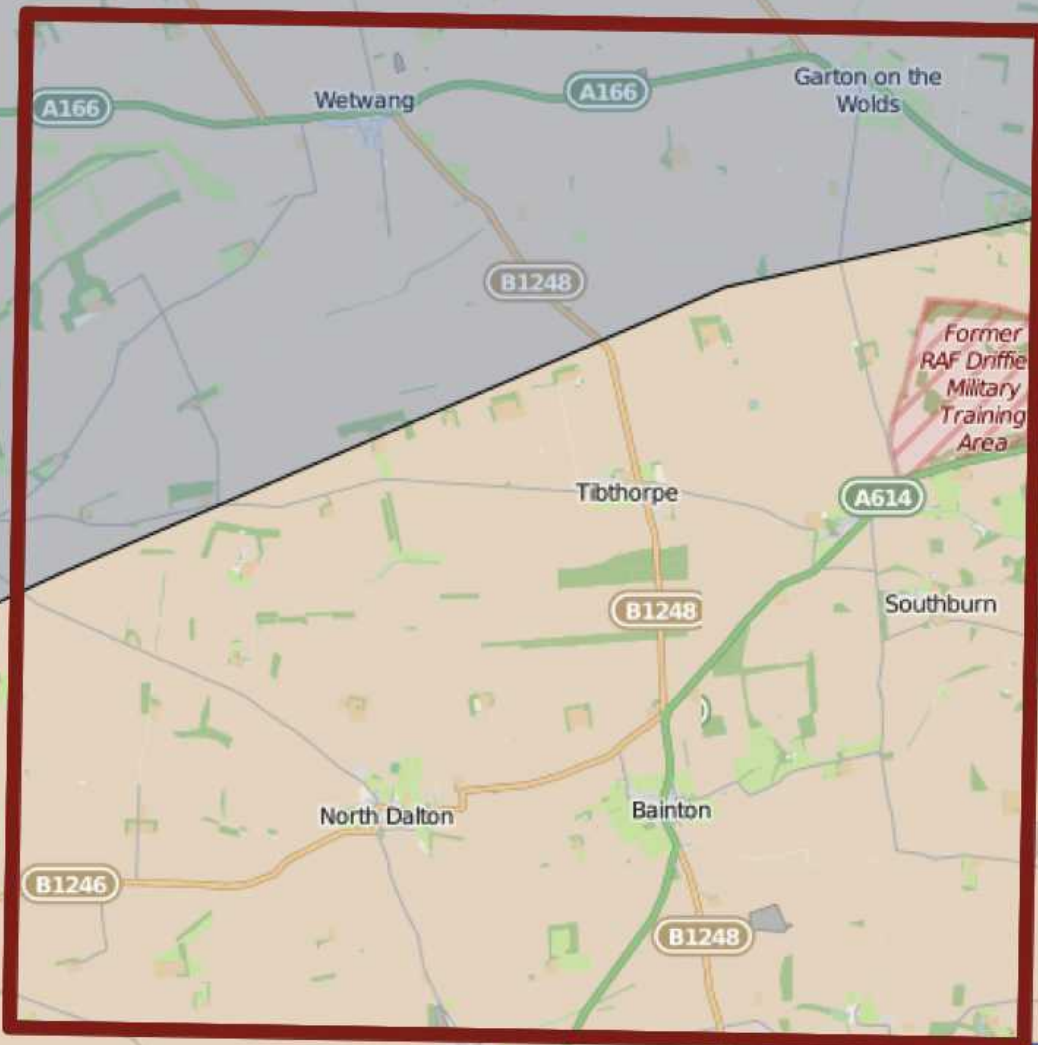
(data from DrillingInfo/HPDI, March, 2013)



Industrialisation: Close to Residential Areas



Pennsylvania



Fimber

B1252

B1249

A166

Wetwang

A166

Garton on the Wolds

A614

A614

Fridaythorpe

B1248

Little Driffield

Driffield

Former
RAF Driffie
Military
Training
Area

A614

Huggate

Tibthorpe

A614

Skerne

B1248

Southburn

A164

North Dalton

Bainton

Hutton Cranswick

B1246

Warter

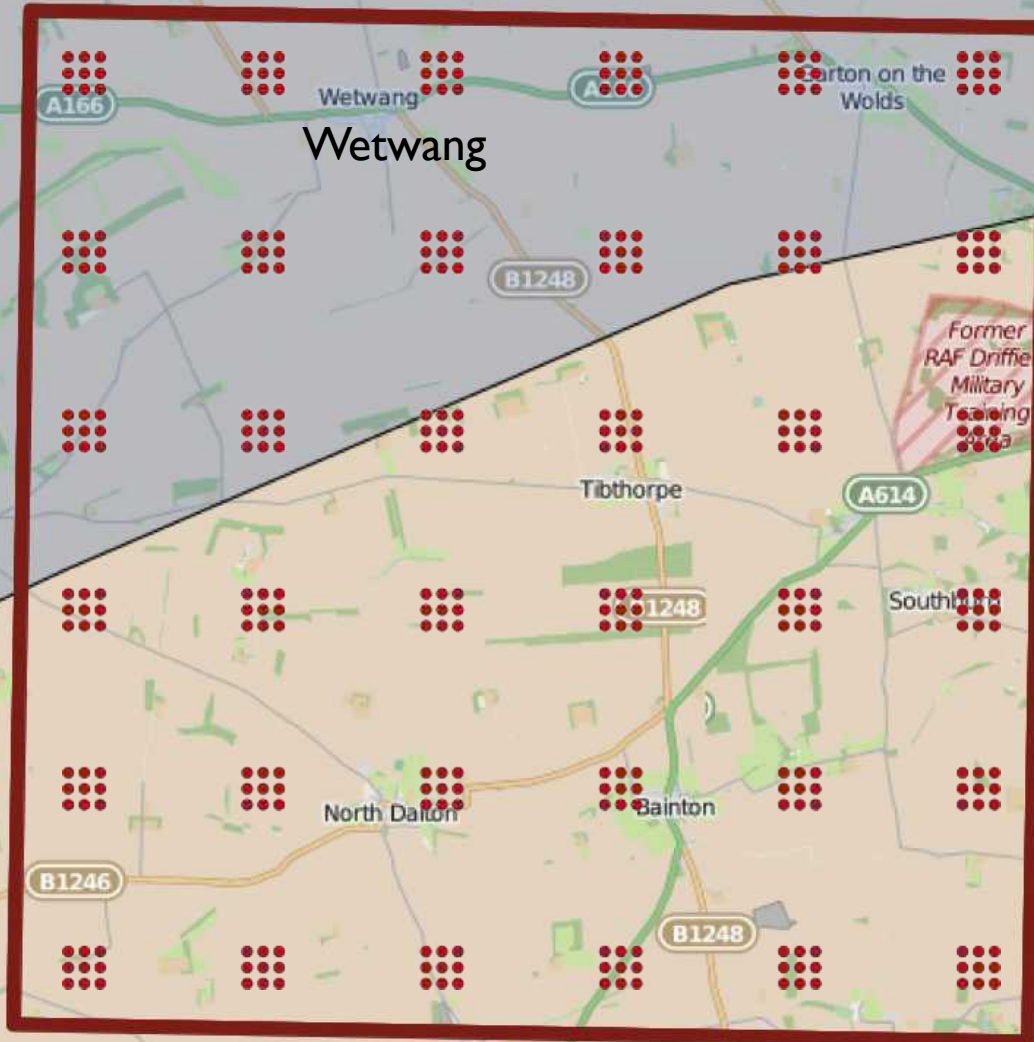
B1248

Middleton on the Wolds

Kilnwick

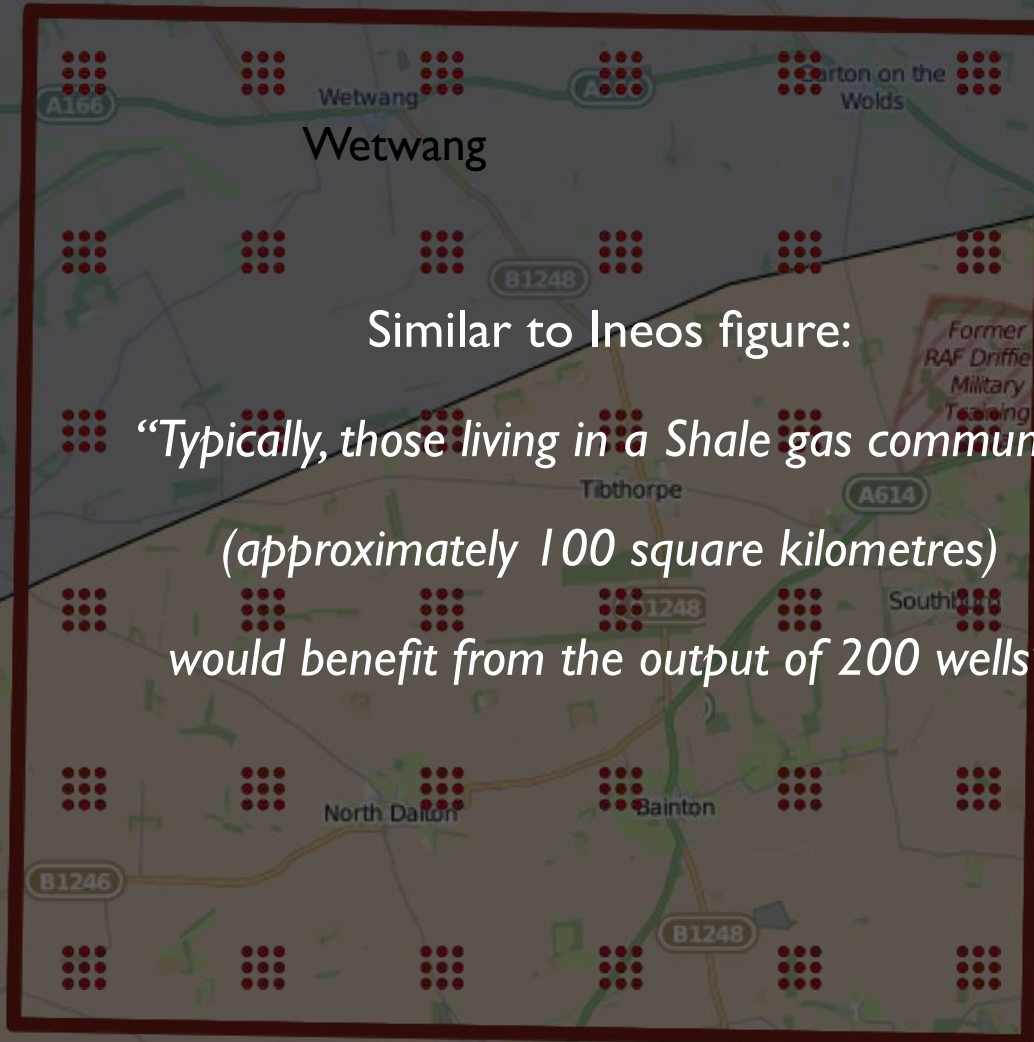
Lund

Economic recovery requires:



at least 300 wells on 30 sites per 10km square

Economic recovery requires:



Wetwang

Driffield

Similar to Ineos figure:

*“Typically, those living in a Shale gas community
(approximately 100 square kilometres)
would benefit from the output of 200 wells”*

at least 300 wells on 30 sites per 10km square

The risks can be managed *“as long as operational best practices are implemented and enforced”*

“Hydraulic fracturing is an established technology that has been used in the oil and gas industries for many decades.”

The risks can be managed “*as long as operational best practices are implemented and enforced*”

“*Hydraulic fracturing is an established technology that has been used in the oil and gas industries for many decades.*”

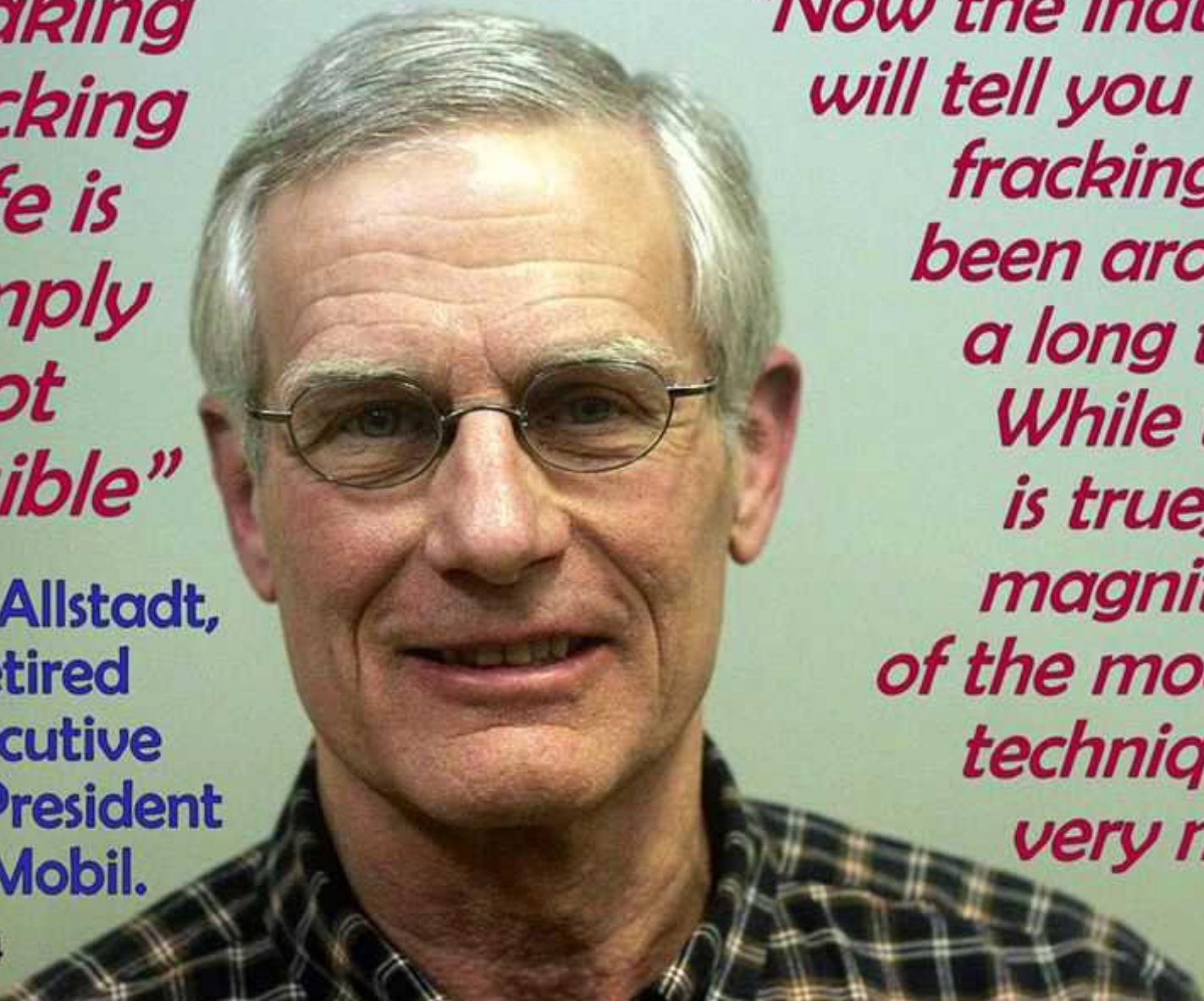
- some basic facts not checked – relied on industry figures
- recommendations not implemented as claimed
 - Mike Hill, well engineer
- Gaps in regulation
 - Joanne Hawkins, University of Bristol

“Making fracking safe is simply not possible”

Louis Allstadt,
Retired
Executive
Vice President
of Mobil.

April 2014

“Now the industry will tell you that fracking has been around a long time. While that is true, the magnitude of the modern technique is very new”





YORKSHIRE EXPLORATION

After years of research, Rathlin Energy (UK) in 2008 requested permission to explore for oil and gas in east Yorkshire. That summer the Department of Energy and Climate Change awarded Rathlin a licence (PEDL 183) to search for oil and gas north of the Humber from west of Beverley to the North Sea in the east. This area of east Yorkshire is crossed by pipelines carrying gas from the North Sea and Europe to fuel the energy needs of the population and industry locally and beyond in England and Wales. Gas is also stored underground for the UK market at Aldbrough by SSE and Statoil and near Hornsea by SSE.

Rathlin Energy has carried out a series of studies collecting geological and geophysical information, including new seismic surveys, 2D and 3D; all designed to develop a better understanding of the sub-surface geology to determine where oil and gas could be found. Plans to test these ideas by exploratory drilling are in hand.



LATEST NEWS

CRAWBERRY HILL SITE UPDATE

14/02/14

Rathlin's permit application for...

WEST NEWTON SITE UPDATE

05/02/14

Rathlin's permit application for...

NORTHERN IRELAND UPDATE

15/01/14

Rathlin is currently in the process of...

» NEWS

PERMIT APPLICATION

Harry Clark, local to West Newton



“During the period of well exploration at the West Newton A Wellsite the residents of the area were subjected to:

1. Air pollution
2. Noise pollution
3. Light pollution
4. Very large vehicle convoys”

Unfit Environmental Assessment



frackfreeeastyorkshire.com/incidents

East Yorkshire: Rathlin Energy



Flood onto path, field & rainwater ditch
West Newton site, 23rd May
and other occasions

East Yorkshire: Rathlin Energy



Leaky Tank,
Crawberry Hill well site
May 2014

East Yorkshire: Rathlin Energy



Spill off the well pad
West Newton
1st June 2014



East Yorkshire: Rathlin Energy

Massive Convoys

West Newton

2nd July 2014

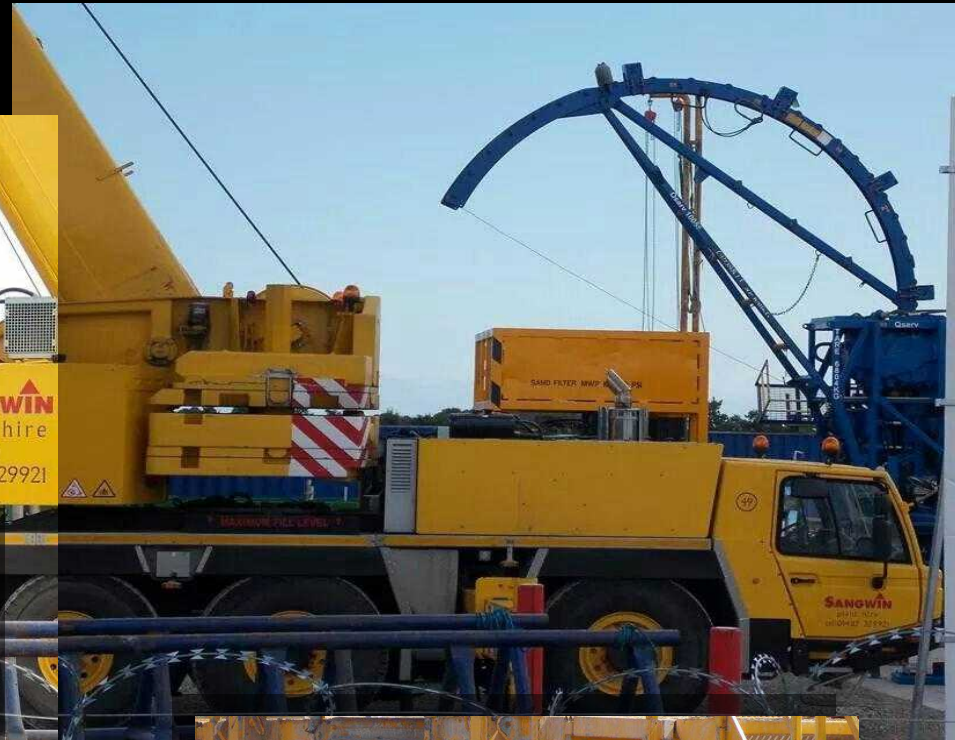


West Newton Mini-frack Incident



West Newton Mini-frack Incident

12th Aug – Major Operational Incident – Minifrack gone wrong?



East Yorkshire: Rathlin Energy



Lake Damaged by Seismic Testing
Holderness
Dec 2014

East Yorkshire: Rathlin Energy

19 Breaches
of Environment Agency Permit

Health & Safety Investigation

Emergency Well Shutdown

Damage from Seismic Testing

Used Cuadrilla's fracking rig – not certified

East Yorkshire: Rathlin Energy

Gas Leaks & noxious odours, Sept 2014

theguardian

News Sport Comment Culture Business Money Life & style

Environment > Shale gas and fracking

East Yorkshire gas-drilling site making locals 'sick from noxious smells'

Oil company denies fracking operation at exploratory well saying its looking at natural gas not shale

John Vidal

theguardian.com, Friday 19 September 2014 12.17 BST

 Jump to comments (187)



A young boy wears a gas mask during an anti-fracking demonstration in London, England. Photograph: Tristan Fewings/Getty Images

People living near a Canadian energy company's exploratory gas-drilling site in east Yorkshire have complained to the Environment Agency about feeling sick from noxious smells. But the company has re-assured government inspectors and local people there is no danger to human health and has been allowed to continue drilling a 9,000 ft deep "wildcat" bore hole.

East Yorkshire: Rathlin Energy



Gas Flaring, West Newton
Sept 2014

Cuadrilla – Breaches & Failures



OUR DISMAL TRACK RECORD 10+ PLANNING BREACHES



TECHNICAL FAILURE

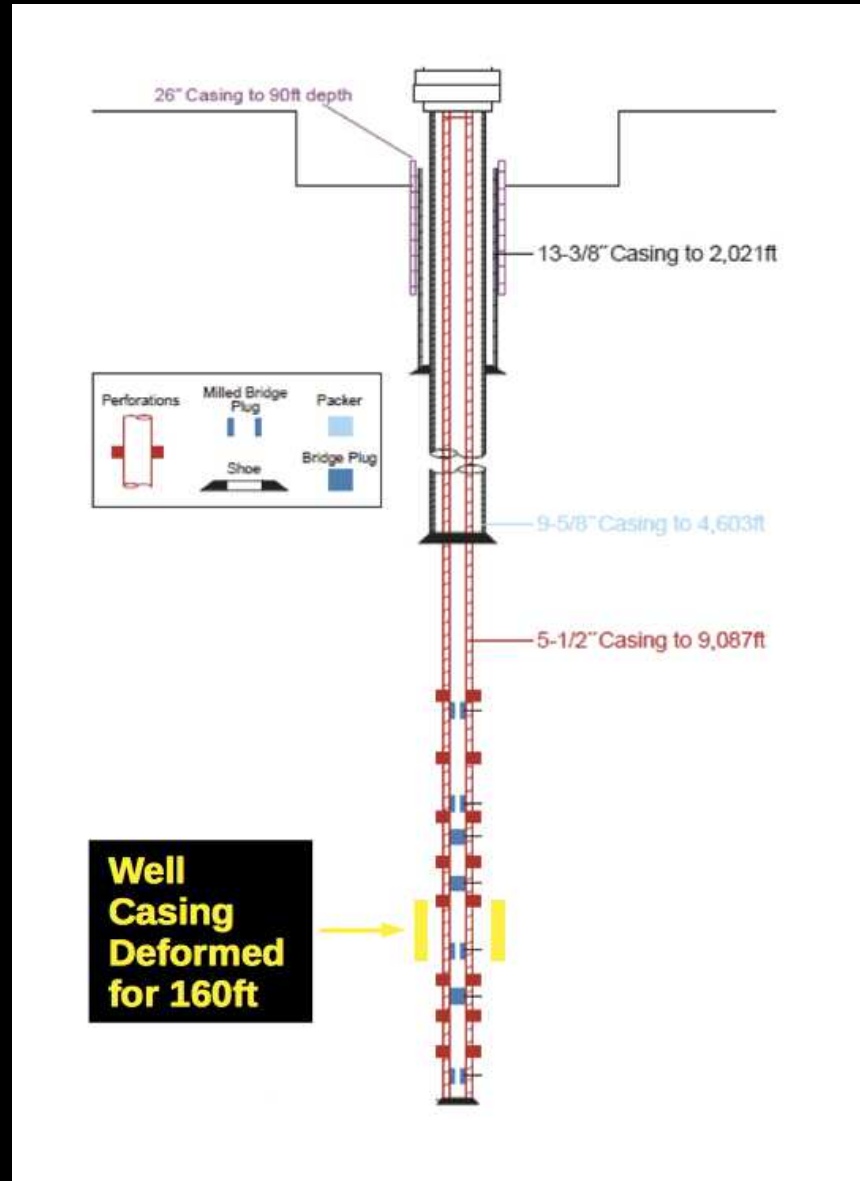
AT EVERY FRACKING SITE IN LANCASHIRE

Even if you add nothing at the surface, what flew back from Preese Hall I when they fracked it was lead at 1,438x drinking water, arsenic at 20x, cadmium, chromium and there was 90x the maximum permissible level of naturally occurring radioactive material. (NORM)

Mike Hill, an oil and gas engineer who accompanied the environment agency when they checked water at Cuadrilla's drilling site in Lancashire

Cuadrilla – Breaches & Failures

Preese Hall Well: Caused Earthquakes That Damaged the Well Casing



Yorkshire Wolds

72 Sites of Special Scientific Interest in Humberside

Yorkshire Wolds

72 Sites of Special Scientific Interest in Humberside

Yorkshire Wildlife Trust says:

- The most northerly chalk streams in Europe
- *“our equivalent of rainforest and deserve a huge effort”*
- amazing places for wildlife
- provide the drinking water we take for granted
- large volumes for crops
- threats include over-abstraction, leading to dangerously low flows
- project Crystal Clear – Restoring the Chalk Streams of the River Hull



Massive & Rising Opposition



Massive & Rising Opposition













FACT AND EVIDENCE-BASED CONSULTATION



Like many sectors, the oil and gas industry generates an enthusiastic and well-meaning following. Many of these followers have no direct experience in oil and gas, or in science or engineering and this can generate discussions, debates and observations that are not always entirely correct. That has certainly been the case here in East Yorkshire in recent months. This space in our information session is designed to address some of the most common misconceptions about our work.

Firstly, it is important to begin with some brief facts:

The work at our current well-site at West Newton is now complete and we remain encouraged by what we have found following our testing programme. All of our work was overseen by Rathlin employees and monitored closely by independent regulators. We have remained consistently compliant with all regulations and conditions of consent in everything that we have done.

Despite regular visits by the government's independent regulatory professionals, there have been suggestions that we have:

- Breached our health and safety obligations – **this is completely untrue.**
- Breached our environmental obligations – **this is completely untrue.**
- Created a well that failed and was unsafe – **this is completely untrue.**
- Generated noxious and dangerous odours from our site – **this is completely untrue.** It is fair to say that there have been some localised and intermittent naturally occurring odours that resulted in us implementing a new odour management plan. We brought the matter under control quickly; we were not forced to close the site down as has been suggested.
- Vented gas unsafely and illegally – **this is completely untrue.**
- Contaminated neighbouring fields and crops – **this is completely untrue** (and this allegation is potentially damaging to the local farming community).
- Poisoned local wildlife – **this is completely untrue.**
- Broken environmental and health and safety rules on flaring – **this is completely untrue.**
- Not communicated about our work – **this is completely untrue** (please see the information session info-graphic).

For independent verification, we kindly ask you to contact the Environment Agency, the Health and Safety Executive, East Riding of Yorkshire Council and/or the Department of Energy and Climate Change.

As our attention in the Holderness area now turns to the proposed site of our West Newton B well, please talk to us today about the facts. We really need to draw a line under this inaccurate and potentially libellous commentary that is damaging our reputation and unnecessarily worrying local residents.

- Breached our environmental obligations – this is completely untrue.

- Breached our environmental obligations – this is completely untrue.

The image shows a screenshot of a news article from the Hull Daily Mail. The article title is "Rathlin Energy breached environmental permits 19 times at Holderness site". The author is Danny Longhorn, and it was posted on March 03, 2015. Below the text is a photograph of a safety sign at the West Newton Well site. The sign lists various safety instructions such as "Caution speed limit", "Eye Protection must be worn", and "No admittance to unauthorised personnel".

HULL DAILY MAIL WED 7.2 °C Partly Cloudy

News Sport What's On Directory Jobs Property Notices Cars Buy&Sell

Rathlin Energy breached environmental permits 19 times at Holderness site

By Hull Daily Mail | Posted: March 03, 2015 By Danny Longhorn

WEST NEWTON WELL SITE
Rathlin Energy
PLEASE REPORT TO SECURITY

- Caution speed limit
- Eye Protection must be worn
- Protective clothing must be worn
- Safety helmets must be worn
- Protective footwear must be worn
- Danger** Explosive atmospheres
- No admittance to unauthorised personnel
- No smoking / No naked lights

IN CASE OF EMERGENCY
PLEASE CALL 0800 19591540

UNDER SCRUTINY: Rathlin Energy breached Environment Agency permit 19 times at site

- Generated noxious and dangerous odours from our site – this is completely untrue.

- Generated noxious and dangerous odours from our site – this is completely untrue.

theguardian
website of the year

East Yorkshire gas-drilling site making locals 'sick from noxious smells'

Oil company denies fracking operation at exploratory well saying its looking at natural gas not shale



📷 A young boy wears a gas mask during an anti-fracking demonstration in London, England. Photograph: Tristan Fewings/Getty Images

People living near a Canadian energy company's exploratory gas-drilling site in east [Yorkshire](#) have complained to the Environment Agency about feeling sick from noxious smells. But the company has re-assured government inspectors and local people there is no danger to human health and has been allowed to continue drilling a 9,000 ft deep "wildcat" bore hole.

- Poisoned local wildlife – this is completely untrue.

“The operator is carrying out vermin control on site using rodenticide in bait boxes and that is believed to be contributing to the numbers of small dead mammals found in the open section of the containment ditch.”

- Environment Agency

Planning Power to be taken off us?

The Telegraph

OFFICIAL – SENSITIVE



Department
of Energy &
Climate Change

From:

The Rt Hon Amber Rudd MP
Secretary of State for Energy and
Climate Change

The Rt Hon Greg Clark MP
Secretary of State for Communities &
Local Government

The Rt Hon Liz Truss MP
Secretary of State for Environment, Food
and Rural Affairs

The Rt Hon George Osborne MP
Chancellor of the Exchequer

7 July 2015

Dear George,

You asked us to develop a joint plan to develop the shale gas sector in the UK, building on the work that has already been done in the last Parliament. This letter proposes an ambitious strategy to enable the first exploration wells, demonstrate the safety and potential of the sector, and ultimately move to production. We propose to make a joint statement this summer to set out the Government's agenda. Our objectives are stretching, but we propose setting the bar high to drive our ambition.

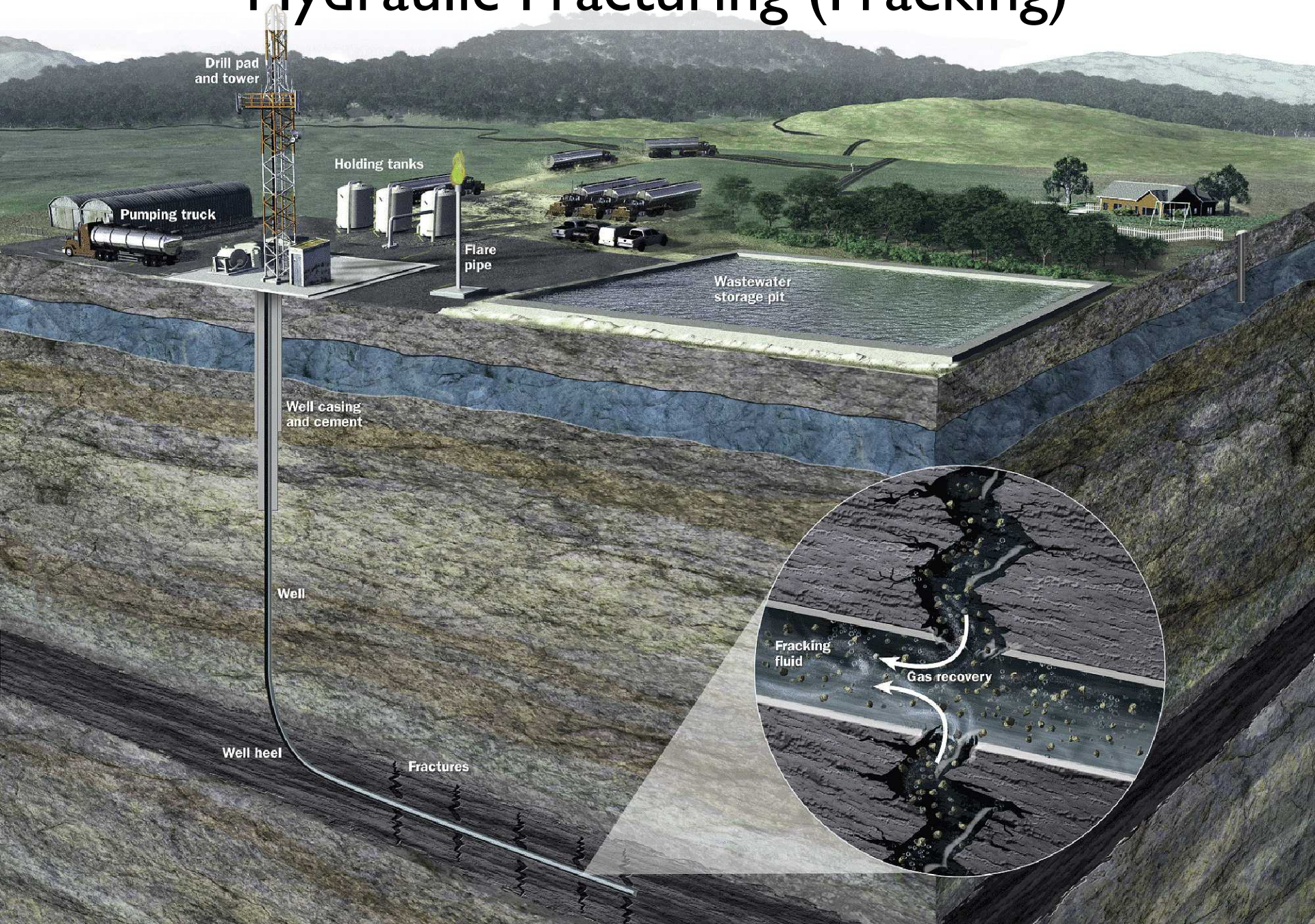
Objectives for our approach to shale development

We propose these stretching Government objectives for the UK shale sector:

- Within two years - exploration under way and first few sites hydraulic fracturing;
- Within five years - production underway from the first converted sites (assuming the gas flows and is commercially recoverable);
- Within ten years - a maturing shale gas production industry.

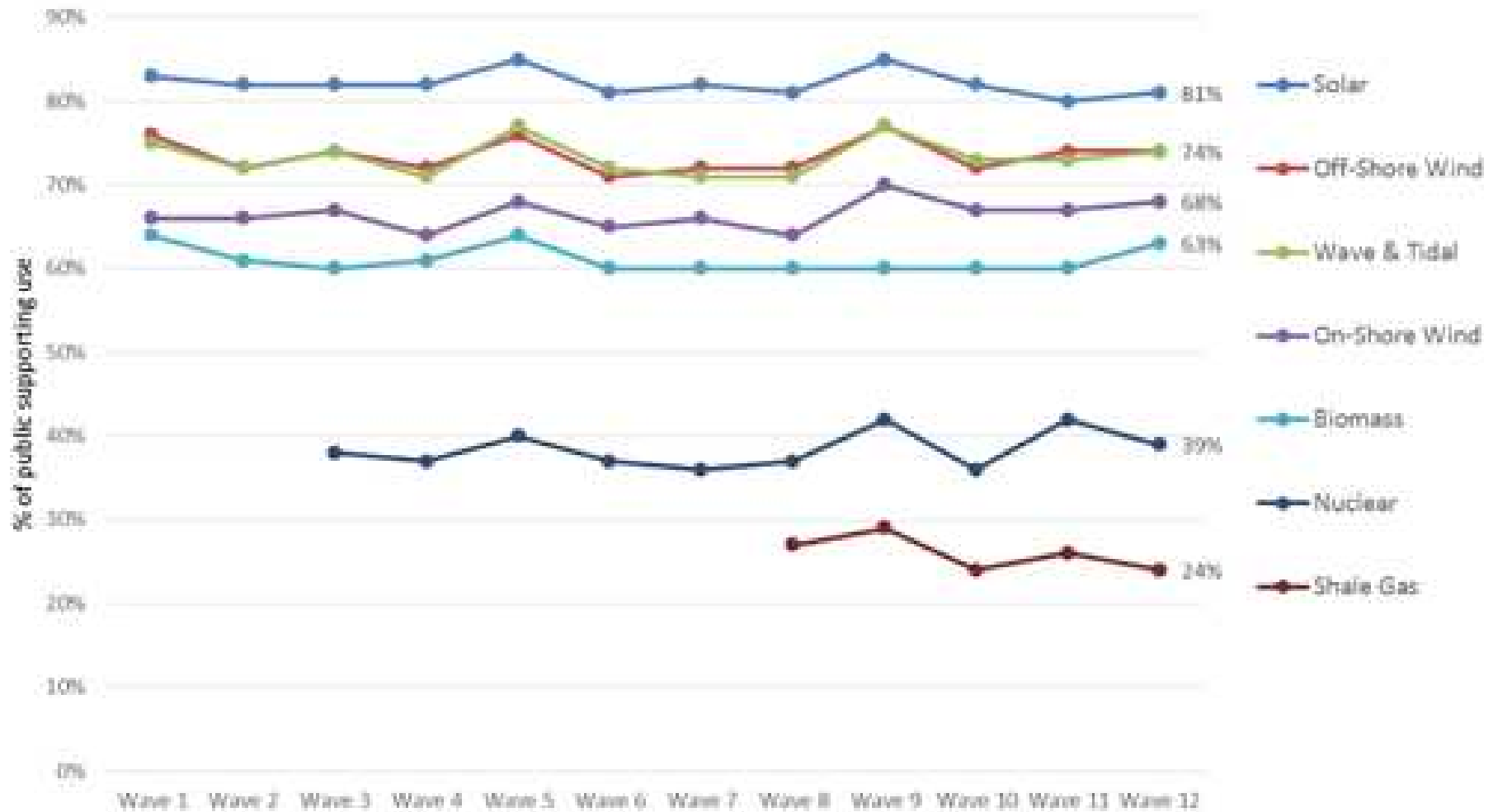


Hydraulic Fracturing (Fracking)



What Does the Public Want?

Public Favourability of Energy Technologies



Source: DECC Public Attitudes Tracker: March 2012 - February 2015