

Gas Migration into the Susquehanna River and Surrounding Area . . .

this page <http://www.damascuscitizensforsustainability.org/2011/11/gas-migration-into-the-susquehanna-river-and-surrounding-area/>

UPDATE - June, 2012

Chesapeake to Pay \$1.6 Million for Contaminating Water Wells in Bradford County

[Chesapeake Energy](#) has agreed to pay \$1.6 million in damages to three families in Wyalusing, Bradford County. The case may be the first Marcellus contamination lawsuit to get resolved without a nondisclosure agreement, meaning the parties can speak freely about the case. Todd O'Malley, an attorney for two of the families, says the plaintiffs insisted on not signing a confidentiality agreement.

<http://www.damascuscitizensforsustainability.org/2012/06/chesapeake-to-pay-1-6-million-for-contaminating-water-wells-in-bradford-county/>

NOTE: these are some of the families mentioned in the documents below.

November 15, 2011

Started in September, 2010 and has not stopped.

This is only one of quite a few "incidents," but is what is the focus here — more examples like Dimock, PA, or the Tioga gas field, or Schreiner in western, PA, Pavillion, Wyoming, etc. THE ITEMS BELOW ARE IN CHRONOLOGICAL ORDER with three maps at the bottom. At least one lawsuit has been filed and some residents have had to leave their homes because of health effects — they have become refugees.

I just got word that instead of three gas wells involved there may be 20 gas wells — we will post more info as we confirm. What really needs to be looked at here are the faults and fractures in this area — some of the gas wells are not fractured — these were the ones pinpointed by PA DEP and are shown in the bottom map. Chesapeake was fined \$900,000. for this "incident", but nothing has been corrected and the fine went where? ... I do not think it can be corrected. This is not the only place that this kind of damage has occurred. We have reports that the impacted area is over 60 square miles.

BA
Director
DCS

September 8, 2010

Methane found in Bradford County wells pressconnects.com Press & Sun-Bulletin

Methane found in Bradford County wells

STAFF AND WIRE REPORTS

SEPTEMBER 8, 2010, 10:00 AM

Pennsylvania environmental regulators are investigating the source of stray methane gas found in the North Branch Susquehanna River and six private water wells in Bradford County last week.

Environmental Secretary John Hanger says the gas "probably ... migrated through the ground as a result of drilling in the area." He says the gas is most likely not from the Marcellus Shale, but from a shallower deposit. WENY-TV reported Tuesday that Chesapeake Energy is evaluating its natural gas wells in the area, and is

taking corrective action. Chesapeake tested 26 residential wells within a half-mile radius of the river and found six of them in Wilmot Township had elevated methane levels. Methane was also detected in a crawl space of a seasonal home.

Susquehanna – gas migration – Chesapeake Gas Wells May Cause Susquehanna’s Bubbles, State Says – Bloomberg 9/7/10. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/Susquehanna-gas-migration-Chesapeake-Gas-Wells-May-Cause-Susquehanna-Bubbles_State-Says_Bloomberg_090710.pdf).http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/Susquehanna-gas-migration-Chesapeake-Gas-Wells-May-Cause-Susquehanna-Bubbles_State-Says_Bloomberg_090710.pdf

PA DEP Investigates Source of Stray Methane Gas 9/8/2010. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/2010.pdf).<http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/2010.pdf>

NEXT see Terry Township 8/12/2010. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/Terry_Township.pdf).http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/Terry_Township.pdf

News story 9/13/10 – with quotes from PA DEP head John Hanger. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/10.pdf).<http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/10.pdf>

FROM PA DEP 9/17/10 On Sept. 2, DEP received reports of bubbling water on the Susquehanna River. DEP and Chesapeake believe the culprit is gas migrating from six wells that are located on three well pads on the “Welles property,” which is approximately two to three miles northwest of the river. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/Susquehanna-River-gas-migration-Newsroom_DEP_091710.pdf).http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/Susquehanna-River-gas-migration-Newsroom_DEP_091710.pdf

PA DEP ordered review of a 4 1/2 mile radius of the Susquehanna gas migration 9/17/2010. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/20101.pdf).<http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/20101.pdf>

Chesapeake ordered to inspect 171 Marcellus wells – six wells may have leaked methane 9/17/2010. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/20102.pdf).<http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/20102.pdf>

October 28, 2010 At least one lawsuit has been filed and some residents have left their homes — become refugees <http://www.wbng.com/video/River-Bubbles-Contamination-Claims-in-Bradford-106140369.html>. above includes video.

Then this 12/2/10. [View article as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/10-The-Rocket-Courier.pdf).<http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/10-The-Rocket-Courier.pdf>

FROM PA DEP – \$900,000 – Chesapeake fine. [View report as PDF](http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/PA-DEP-900000-Chesapeake-fine-Newsroom_DEP.pdf).http://66.147.244.96/~damascu5/wp-content/uploads/2011/12/PA-DEP-900000-Chesapeake-fine-Newsroom_DEP.pdf

May 17, 2011 <http://www.portal.state.pa.us/portal/server.pt/community/newsroom/14287?id=17405&typeid=1>
“At various times throughout 2010, DEP investigated private water well complaints from residents of Bradford County’s Tuscarora, Terry, Monroe, Towanda and Wilmot townships near Chesapeake’s shale drilling operations. DEP determined that because of improper well casing and cementing in shallow zones, natural gas from non-shale shallow gas formations had experienced localized migration into groundwater and contaminated 16 families’ drinking water supplies.”

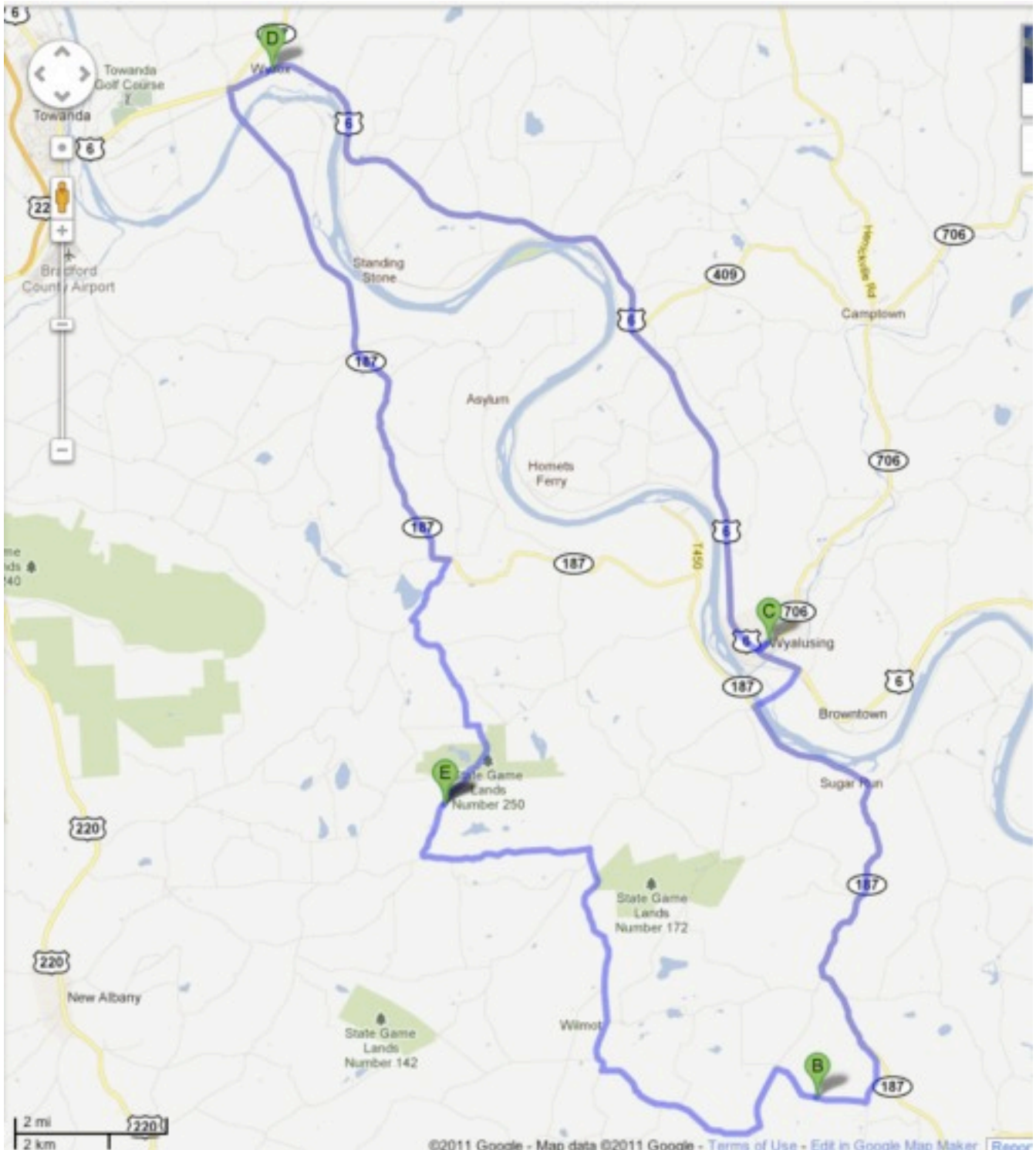
This above is disingenuous (fancy term for neat lie) editorial statement masquerading as authoritative information. Here though you do have the list of some of the townships involved, but the editorializing “improper well casing and cementing in shallow zones, natural gas from non-shale shallow gas formations had experienced localized migration into groundwater and contaminated 16 families’ drinking water supplies.” is not accurate – some of the gas wells involved have not been fractured – some have – and the isotopic tests that would prove the origins of the gas have not been made public and maybe have not been done. The casing situation is a distraction as an item to point to as the casings always leak – see Dusseault casing paper and others. SEE Dusseault: **Why Oil wells Leak Cement Behavior and Long-Term Consequences**

<http://www.onepetro.org/mslib/servlet/onepetropreview?id=00064733&soc=SPE>

and Durand <http://www.damascuscitizensforsustainability.org/2011/12/how-fracked-gas-wells-become-a-conduit-of-pollution/>

Map # two - shows the approximate area of gas migration along the Susquehanna River that we have reports of – approximated by the purple line which are roads – this was a quick way of delineating the area by using roads and Google maps - the migration area is larger than the purple road loop. We have reports – some are in the media materials in this email of gas migration in Terry township, Wilmot Township, Wyalusing and Wysox – the actual area is not just where the roads are – the current guess is approx. over 60 square miles are impacted.

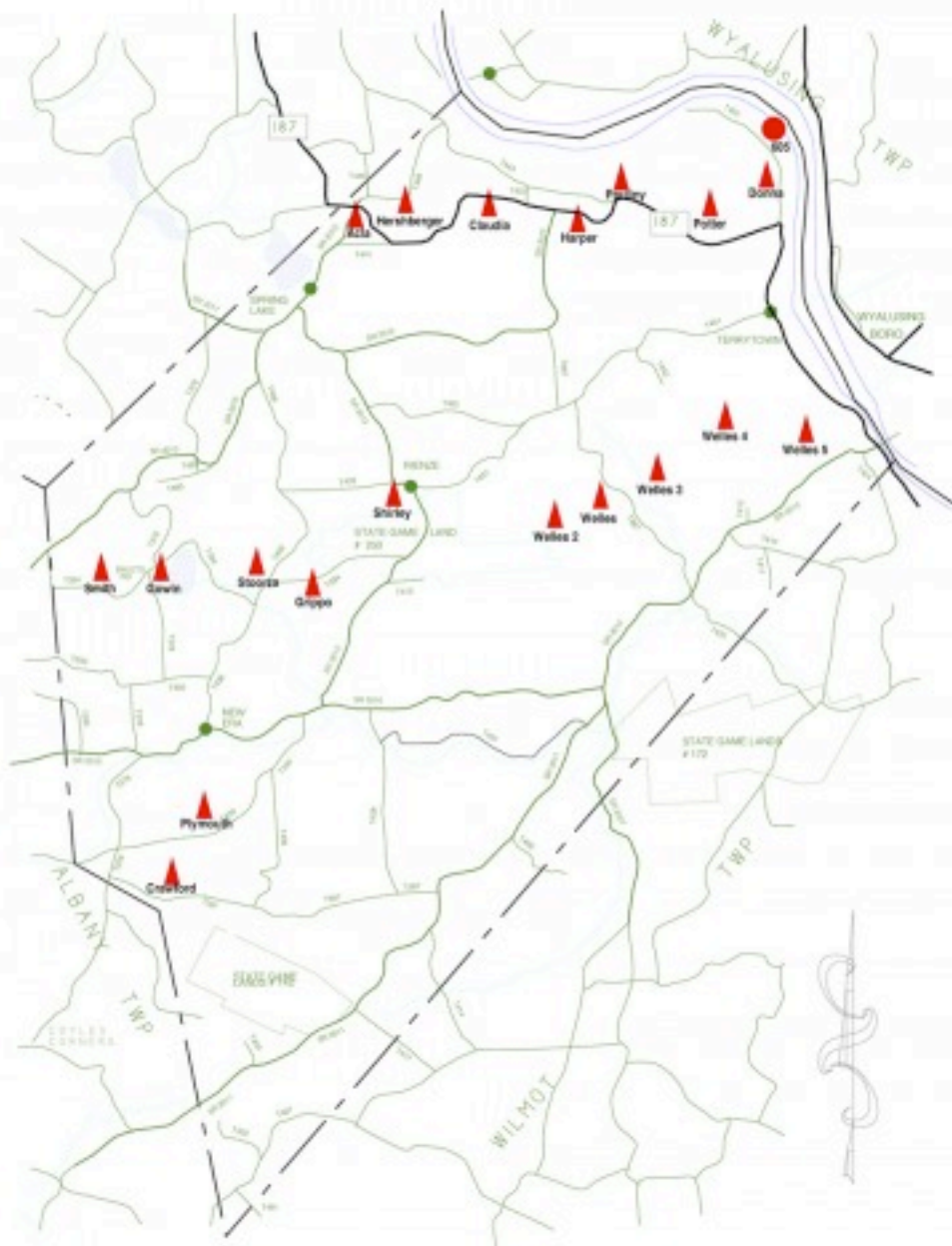
map <http://66.147.244.96/~damascu5/wp-content/uploads/2011/11/Susquehanna-River-Sept-2011-gas-migration-area-map.jpg>



and the third map - of where the gas wells pin-pointed by PA DEP and residents as being directly related to the gas migration - these wells have connected the formatio layers to the surface. — note the curve in the River to orient yourself

SEE Sept. 8, 2010 DEP press release about the Welles gas wells. - Press story TITLED "PA DEP Investigates Source of Stray Methane Gas"
AND see PA DEP ordered review of a 4 1/2 mile radius of the Susquehanna gas migration
and the latest thing I can find on this situation - from July, 2011 - Chesapeake fine \$900,000. - but no correction to the situation.

We are told there are 3 "problem" gas wells: Welles 3, 4, 5 - Also there are statements that there are six "problem" wells - Map shows locations and names of the gas wells



click on map to see larger version <http://66.147.244.96/~damascu5/wp-content/uploads/2011/11/Susquehanna-River-gas-migration-map-of-problem-gas-wells-on-Welles-property.jpg>

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