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Sunday Times review of DEP drilling records reveals water damage, murky testing methods

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First of two parts

State environmental regulators determined that oil and gas development damaged the water supplies for at least 161 Pennsylvania homes, farms, churches and businesses between 2008 and the fall of 2012, according to a cache of nearly 1,000 letters and enforcement orders written by Department of Environmental Protection officials and obtained by The Sunday Times.

The determination letters are sent to water supply owners who ask state inspectors to investigate whether oil and gas drilling activities have polluted or diminished the flow of water to their wells.

View interactive map:

Gas Drilling Complaints Map

Inspectors declared the vast majority of complaints - 77 percent of 969 records - unfounded, lacking enough evidence to tie them definitively to drilling or caused by a different source than oil and gas exploration, like legacy pollution, natural conditions or mining.

One in six investigations across the roughly five-year period - 17 percent of the records - found that oil and gas activity disrupted water supplies either temporarily or seriously enough to require companies to replace the spoiled source.

The letters confirming contamination or water loss from drilling and the orders that require companies to fix the damage provide what is likely the best official count of the industry's impact on individual water supplies in Pennsylvania because the state does not track the disruptions.

The Sunday Times requested the records in late 2011, and received access to them late last year after a state appeals court ruled that the DEP had to release the documents regardless of whether it was hard for the agency to find them in its files.

While the records compiled by the newspaper offer a more complete tally of the number of affected properties than was previously available, the count is not exhaustive:

- DEP tracks oil and gas-related disruptions to water supplies based on broad incidents, each of which might affect one or many water supplies, making comparisons between the totals difficult. A case of gas migrating into Dimock Twp. drinking water, for example, is considered one incident by DEP even though the state determined it affected 18 water wells used by 19 families. DEP spokesman Kevin Sunday said the agency compiles "some information" on the number of affected water wells and springs, but DEP's statistics on impacted water supplies differ from the numbers documented in the letters and orders released to The Sunday Times. Between 2010 and 2012, DEP counted 103 impacted water supplies - six more than were documented for those years in the records released to the newspaper.

- DEP repeatedly argued in court filings during the open records case that it does not count how many determination letters it issues, track where they are kept in its files or maintain its records in a way that would allow a comprehensive search for the letters, so there is no way to assess the completeness of the released documents.

- Before a 2011 regulatory update, solutions worked out privately between homeowners and drillers were not required to be reported to the department. The Sunday Times requested the notices of potential water contamination that now have to be passed on to DEP by drilling companies that receive them from residents, but the request was denied by DEP and the state's Office of Open Records because the documents are considered part of protected investigations.

- The conclusions described in the determination letters are seldom absolute because substances read as signals of drilling-related contamination are also routine signs of other man-made or natural influences.

For regulators, tracking broad cases is more useful from a technical standpoint than counting impacted water wells, Mr. Sunday said in an email.

"The number of water supplies impacted is not always reflective of the scope of the problem," he said.

Using its definition of incidents, DEP counted 83 cases of drilling-related impacts on water supplies between 2008 and 2012, roughly the same period covered by the records released to The Sunday Times. The state has confirmed water supply impacts in 128 broad cases since 1987, he said.

The state's case-based tally suggests the rate of drilling-related contamination incidents increased with the start of the Marcellus boom: Drilling damaged water supplies at a rate of more than 16 cases per year during the past five years, according to the state's accounting. For the 20 years prior to 2008, the incidence rate was fewer than three cases per year.

Mr. Sunday said the increase can be attributed to a shift from drilling in western areas of the Commonwealth with a long

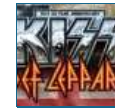
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history of oil and gas extraction to central and eastern regions where the shallow geology is complex, gas-rich and less studied. Those factors mean "that there will be an adjustment period during which operators refine casing and cementing practices in order to most effectively establish and maintain the highest standards of well integrity," he said.

The most recent trends - DEP counted five contamination cases that impacted roughly 19 water supplies in 2012 compared to 18 cases that impacted 27 water supplies in 2011 - suggest that the improvements are working, he said.

Transparency questioned

The department's water testing and reporting protocols have come under scrutiny in recent months as environmental activists and homeowners whose drilling-related complaints were dismissed have come to doubt the determinations' accuracy and value.

DEP recently changed its policy for issuing water contamination notices to require administrators in Harrisburg to approve them before they are sent out from the regional field offices that conduct the investigations. The state's laboratory technical director, deposed when a resident appealed the DEP's conclusion that drilling activities had not polluted his water supply, acknowledged that DEP reviews and reports back to homeowners only those contaminants it considers indicative of drilling-related contamination, not all of the contaminants that might surface in its water tests - a common practice for tailoring laboratory analysis but one that spurred critics to question the thoroughness and transparency of DEP's investigations.

In January, state Auditor General Eugene A. DePasquale announced his office is conducting a performance audit of the DEP's water testing program to "determine the adequacy and effectiveness of DEP's monitoring of water quality as potentially impacted by shale gas development activities" between 2009 and 2012.

Debate over the safety of oil and gas extraction - especially the combined tools of horizontal drilling and hydraulic fracturing used in pursuit of fuel from unconventional sources like the Marcellus Shale - is often characterized as an argument between activists who exaggerate claims of damage and industry public relations teams who minimize them.

But the determination letters released by the state reveal a widespread suspicion among water supply owners - farmers and summer residents, school board members and mini-mart operators, churches and a Wyoming County municipal water authority - that when their water seems soured, gas drilling operations might be to blame.

According to the state's records, they are sometimes right and for a myriad of reasons.

More than half of the records of contaminated water supplies confirmed by the state involved gas, loosened by drilling, seeping into drinking water aquifers. Faulty natural gas wells channeled methane into the water supplies for 90 properties, the letters show. Three of those cases were tied to old wells, one of which caused an explosion at a home after gas entered through a floor drain and accumulated in a basement.

Drilling-related road construction contaminated water at two homes, while construction for a large water-storage pond called an impoundment contaminated another. Pipeline construction twice polluted water supplies with sediment. Stray cement or rock waste displaced by drilling, called cuttings, contaminated seven water supplies.

The state has never implicated the underground gas extraction process known as hydraulic fracturing, or fracking, in a contamination incident, but inspectors noted that brine contamination suggesting "an infiltration of frac water into the shallow ground water," damaged six fresh-water springs used for drinking water in northwestern Pennsylvania.

Some of the problems were short-lived: the DEP letters describe 20 of the confirmed contamination incidents as temporary.

Regulations needed

The incidents documented in the letters reinforce why the state and industry have focused on strengthening standards for above-ground activities so materials don't infiltrate the surface and well construction to ensure the cemented casings that protect groundwater are sound, Marcellus Shale Coalition CEO Kathryn Klaber said.

The natural gas industry has worked on several fronts to investigate and respond to contamination complaints, including providing drinking water to homeowners while their concerns are investigated, she said. The organization and university partners are also compiling a database of pre-drilling groundwater quality to help researchers assess background water quality and insulate operators from misplaced blame.

The letters obtained by The Sunday Times describe an array of problems that exist in Pennsylvania water supplies unrelated to oil and gas exploration, like high metal, salt and methane content and bacteria from surface water or nesting creatures invading poorly built water wells.

A 2011 Penn State study found that about 40 percent of water wells it tested prior to gas well drilling failed at least one federal drinking water standard, usually for coliform bacteria, turbidity or manganese. Pennsylvania is one of only a few states in the nation that does not have private water well construction standards.

"It really is time for Pennsylvania to put in place some standards for private water wells," Ms. Klaber said.

Regulations could help address pre-existing water quality problems and make sure water wells are stable enough to handle any nearby industrial activity, including oil and gas operations, she said. "When you've got vibration and activity proximate to an unlined water well you're going to get infiltration of dirt and other materials. That turbidity, usually temporary, is going to affect that water."

Presumed responsible

Indicators of drilling-related contamination might equally point to past pollution or natural systems changing with weather or seasons, so the contaminants DEP cites as evidence of a drilling impact in one letter can be cited as evidence of background water conditions in another.

Manganese, iron and a measure of the salts and minerals dissolved in the water known as total dissolved solids (TDS) are

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among the elevated parameters most frequently noted by DEP inspectors in water wells they determined were not influenced by drilling, but in at least 30 cases where the DEP determined that oil and gas drilling had contaminated water supplies, increases in manganese, iron or TDS were described as a primary or sole indicator of a problem.

Letters sent to nine McKean County homeowners during an involved investigation of drilling-related contamination captured the difficulty of drawing conclusions based on substances that can indicate both normal conditions and harm: "An elevated level of these compounds is not uncommon in this region and can occur naturally," the investigator in the case wrote, "but it is also recognized that they can become elevated as a result of drilling oil and gas wells."

DEP does not rely only on water test results to determine whether a water supply was affected by drilling, Mr. Sunday said. "We employ a very complex analysis in these investigations." Inspectors "consider things like local water well and gas well integrity, a geochemical evaluation of the water supply, and the local rock formations and how water flows through them," he said.

In many cases, the failure that led to contamination is left as opaque as turbid water.

DEP blamed a Marcellus Shale driller in Susquehanna County for water contamination in 2010 after the salt, barium, strontium and gas concentrations in the Rush Twp. home's water supply spiked after the company drilled and fracked a well 600 feet away.

The post-drilling barium levels reached 47 milligrams per liter - more than 23 times the safe level of the toxic metal in drinking water - while the TDS, chloride and sodium levels peaked at more than 10,800, 5,800 and 3,800 milligrams per liter, respectively - more than 20 times the guidance levels set for aesthetic reasons like taste and appearance.

The determination letter and the subsequent order requiring the driller, Stone Energy, to replace the water well do not describe the mechanism for the pollution. Instead, Mr. Sunday said, the company was presumed responsible for the contamination based on the timing of the impact and the distance from the gas well and the company did not rebut the state's finding.

Stone Energy believed its drilling activity was not to blame for the pollution, but agreed to drill the homeowner a new water well and repay him for out-of-pocket living expenses without admitting to causing the problem, according to the enforcement order.

High TDS, chlorides, sodium, barium and strontium - all potential signatures of contamination from Marcellus development wastewaters - "also occur in brackish or saline groundwater which have been documented at relatively shallow depths in this part of the state," Mr. Sunday said. Although the concentrations of those elements surged to levels between 46 and 142 times the pre-drill concentration measured on the property, the post-drilling samples were taken from a different, deeper water well and so could have been affected by the shallow brine.

Critics of natural gas drilling say the ambiguity left by DEP investigations means the state needs more robust tools and a stronger will to pursue clues about contamination to its source.

Anthony Ingraffea, Ph.D., an engineering professor at Cornell University and a vocal critic of the oil and gas industry he once worked for, said that when DEP says it cannot find a connection between water well contamination and nearby gas activity it does not mean there is no link.

"If DEP sent me a letter that said, 'We can find no connection,' my natural question as a scientist would be, 'How did you look?'" he said.

He was concerned by DEP's practice of counting cases without counting individually impacted water supplies, which he said "makes their statistics look better."

"It doesn't help answer the question, which is how many individual families' private drinking water wells have been contaminated by oil and gas activities," he said. "No one knows the answer. Who should know the answer? DEP."

Contact the writer: llegere@timeshamrock.com

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51 Comments

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JimBarth · a year ago

This excellent, complete, article by Laura Legere, backed by the fine work and support of The Times Tribune, confirms the validity of the complaints by victims of the shale gas extraction industry in Pennsylvania, and smashes the false propaganda facade of the Tom Shepstone PR, PA, Energy in Depth, Katy Klaber MSC, and industry apologists.

It also confirms the lap dog relationship. and. incompetent performance of PA DEP. Gov. Corbett.

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and ex-Sec'y, current Blank Rome, shale-gas-attorney-partner, Mike Krancer.

This is the main reason why we need an independent, powerful, US EPA, regulating, and, investigating, shale oil and gas extraction. It can not be left up to the individual States, and the voluntary, "best practices" of the industry itself. These revolving door, conflict of interest, polluters and enablers, must be held accountable, and, the citizens of the Commonwealth must be protected.

23 ^ | v · Share >

Christina Countryman → JimBarth · a year ago

absolutely, let's demand a repeal of the criminally installed Energy Policy act of 2005, and then prohibit the production of toxic chemicals on the national level. Future generations are depending on us.

17 ^ | v · Share >

miserableoldfart → Christina Countryman · a year ago

The Halliburton Exclusion is the most blatant, arrogant, and disgusting example of corruption at the highest levels of government in the past 100 years - far worse than Watergate, Tea Pot Dome and the rest.

17 ^ | v · Share >

Waterwatcher · a year ago

Possibly as a result of the fox occupying the hen house, the accompanying map of wells polluted by the gas industry is not accurate. I personally know of two residential water wells polluted in Potter County that were reported to the DEP and not shown on the map. I seriously question the accuracy of the other 969 water wells that DEP determined were not polluted by drilling. A resident who has used a water well for years, decades, or nearly forever knows if their well is suddenly polluted with methane or high TDS caused by drilling. Mike Krancer has returned to his former job of representing gas drillers, a job he obviously performed while being paid by the taxpayers he was supposed to represent. Actions of Krancer and Corbett should be considered treason against the residents of Pennsylvania.

18 ^ | v · Share >

The_White_Rabbit → Waterwatcher · a year ago

One important note on that is often you will NOT see the effects of groundwater pollution for years. Most of the Superfund sites in this part of Pennsylvania were not found as a problem for decades. Often in fractured bedrock it may take years for the problem to reach residential wells and possibly more years before residents might notice or test and find a problem. The Harrisburg assumption that you will detect contamination almost immediately is irresponsible and does not reflect investigations that have been done for years in the state.

^ | v · Share >

miserableoldfart · a year ago

Remember that we are in the infancy of this long term disaster. There are plenty of months, years and decades for that poison to get into many more wells and water supplies. But hey, the money will all have been made by then and the zillionaires will have moved elsewhere or passed their millions on to subsequent generations of predatory spoiled brats.

10 ^ | v · Share >

Radar45 → miserableoldfart · a year ago

And your solution to this countries energy needs is....what?.....solar ??...LMAO !!

2 ^ | v · Share >

Maggie Mead → Radar45 · a year ago

So are you laughing at Germany who now receives 25% of their energy needs on renewable energy? They hope to be at 35% by 2020.

10 ^ | v · Share >

fredweiss → Maggie Mead · a year ago

All they have to do now is figure out how to afford it. From a report in Bloomberg a few months ago, "Chancellor Angela Merkel is working to prevent a voter backlash after costs for Germany's clean-energy expansion spiraled. Consumers in Europe's biggest economy have seen power bills

Then on top of that they are being forced to build over a dozen new coal-fired power plants to make up for the expected energy shortfall.

In Denmark, another leader in "renewables", mainly wind, electricity costs are 3x what they are here.

2 ^ | v · Share >

Sean Zigmund → fredweiss · a year ago

If all we ever think about is the COST TODAY, there will be NO tomorrow. Our future on this planet depends on a sustainable approach to living. Polluted water, air, and soil will NOT lead to a sustained life on our planet. We're screwing up everything around us for greed and short term gains. If that's what you'd prefer, perhaps put a few wells on your land and let's talk again in a few years.

6 ^ | v · Share >

Radar45 → Sean Zigmund · a year ago

OH MY...Lions and Tigers and "No Tomorrow"....OH MY !!!...we lived through Clinton for Christ sake, and I've lived through more than you can watch on the Discovery channel...get out there, do something real....I thought the hippies were gone.

^ | v · Share >

Jay Alt → fredweiss · a year ago

German governments aren't backing off their plans as suggested. They have reduced feed-in-tariff supports (& consumer costs) repeatedly in the past. German support for wind & solar has helped drive large cost reductions in those technologies for everyone around the world. Wind and solar are very popular in Germany with deep support. Most energy farms are privately owned and benefit local people.

. . . Denmark has long suffered from the high costs of fossil fuels- their land has few natural reserves. It made sense for them to move away from those sources in the 1970s and stick with the policy. Unlike our government of dullards, that country has a consistent energy policy. Danes chose to conserve and use homegrown energy, rather than sending boatloads of cash to Putin and thugs for Siberian natural gas. So do the Germans. That isn't hard to figure out.

4 ^ | v · Share >

The_White_Rabbit → fredweiss · a year ago

So what's your point Fred? Forget environmental protection that is common in other industries? You do realize that many of these gas companies in Pennsylvania have large foreign investments as well as the pipelines seem to be "leaving" Pennsylvania.

1 ^ | v · Share >

beckycass → fredweiss · a year ago

start-up costs accrue for any new business venture, and they're far less to implement solar than to blow up bedrock, releasing gas all over the place, with only a percentage being captured for use. meanwhile, solar energy costs zero, compared to ongoing expense with fossil fuel extraction.

^ | v · Share >

The_White_Rabbit → Radar45 · a year ago

Where do you think some of the Marcellus gas is going? It sees the surface of Pennsylvania a few tens of miles before it's on to other states and possibly overseas. The logic on if you use gas you cannot criticize the production is ridiculous. Lots of industries provide needed products for our civilization, yet we expect compliance to environmental protection regulations.

6 ^ | v · Share >

pattimee · a year ago

The people want to know the answer. They should have a list of names for the public to see if your

name is on there after a complaint. I'm sure there are people that complained and it was never investigated. If your name is on the list you will know you were heard. Post the results of the investigation that way these people will know it was looked in to.

9 ^ | v · Share >

The_White_Rabbit → patimee · a year ago

Typically residents would not be identified due to privacy reasons. The residents sampled may release their results to the public unless they signed some sort of BS disclosure document that would prevent this. Typically samples are provided with non identifiable ID at least to the individual address level. Once source of Dimock data is at the US EPA On Scene Coordinator website (www.epaosc.net) that has considerable amount of sampling data. Note that there are "no final reports" that the pro gas industry seems to cite but can't produce. Also note that while there was three rounds of sampling at Dimock, only the first round sampled for methane (the problem). The subsequent two rounds were limited inorganics. You will hear quite a bit of statements on EPA and DEP says there is no problem, but try to find a final document. Any pro gas types like to provide where these elusive documents are?

2 ^ | v · Share >

The_White_Rabbit · a year ago

It also seems that the Marcellus Shale Coalition is proposing putting regulations on the private well owner to insure standards are met. This seems to put more emphasis on the homeowner than on the industry. There are laws that enforce contamination of Commonwealth waters that require the responsible party to assess the problem and abate the problem. Once again the article cites "normal background". This is a political con job that even cites Salt Springs State Park on methane and other contaminants. This is once again pointed out as a rare example of brine/methane intrusion into surface waters. Even the Indians were educated enough to realize this was a secret source of salt well before regulations existed. Define "background" conditions with sampling not BS statements.

8 ^ | v · Share >

Maggie Henry · a year ago

The audacity is mindboggling! The agency in charge of protecting the environment "doesn't know", "we don't keep those records"... Really?!? My head is about to explode so I better end this before I digress to the level of DEP and our governor and state legislators, who are mere whores for the gas industry! I actually participated in a protest in Harrisburg at the offices of DEP demanding answers. Thank you so much for uncovering this and taking the matter to court.

11 ^ | v · Share >

Vera Scroggins · a year ago

Laura can also quote or talk to the Llewellyn brothers, hydrogeologists, who have been building a data base of water test results and at last count, most of the over 1,000 water wells tested, most have no methane or negligible amounts of methane in their water wells.

5 ^ | v · Share >

William Huston · a year ago

Thanks Laura and Times-Trib. This is great.

5 ^ | v · Share >

scranton1 · a year ago

This will all come home to roost someday. And the damage will be incalculable.

After they were done pillaging the mines, how many homes were damaged, and destroyed by mine subsidence? The Butler Mine tunnel? On and on.....

I put a lot of blame on the landowners who saw a quick buck. (I should say....lots of bucks). They can pack up and move.

4 ^ | v · Share >

Radar45 → scranton1 · a year ago

I have an idea....let's buy ALL of our energy from other countries. Let's be so dependent on them that when they choose they can just cut us off. Don't be independent and be able to protect ourselves and economy....let's be socialist and just lay down and die.
Morons!! There is a cost to anything we do. WE are the CLEANEST country when it comes to pollution, China, Russia and other third world countries are the ones causing YOUR

"Global Warming".... I'll add to that charge 50% tax on everything !!!

3 ^ | v · Share >

Maggie Mead → Radar45 · a year ago

You are completely clueless; why else would you have to revert to name calling?

7 ^ | v · Share >

Radar45 → Maggie Mead · a year ago

WWWAAAAAAAAA !!!!!

^ | v · Share >

miserableoldfart → Radar45 · a year ago

The USA is by far the world's worst offender on Greenhouse Gas emission and one of the worst in the cause of GLOBAL

WARMINGWITHOUTQUOTESBECAUSEITISANESTABLISHEDFACT.

Yes, we have modest pollution abatements for OTHER forms of pollution which are better than those of third world countries lacking any at all, but NOT FOR greenhouse gases.

This could be because of the disgraceful, degenerate scum that has come to power in the name of "conservatism" over the past 30 years or so, but I'll just report and let y'all decide..

5 ^ | v · Share >

Jay Alt → Radar45 · a year ago

Global warming is caused by the accumulation of Greenhouse Gases in the air. The amount which the US emitted over our history is much larger than any of the countries you name. This is true even if China passed us in annual emissions a few years back.

FYI, SCOTUS confirms that CO2 and other GHGs are pollutants under US law.

Little children are taught to clean up their own messes.

That is a lesson which today's capitalist, socialist and communist industrial managers are going to relearn, whether they enjoy it or not.

2 ^ | v · Share >

JACK1NEPASKI → Radar45 · a year ago

Agree with Maggie, you havent a clue, we, as a Nation export vastly more of our home mined fuel than we use on our own shores..

1 ^ | v · Share >

fredweiss → Radar45 · a year ago

Radar45, you are absolutely correct and I completely agree with you.

2 ^ | v · Share >

bobash · a year ago

Talk about ironic as a citizen with a damaged well you have to enjoin the energy company but also the environmental agency tasked with protecting you!!! This must be done because the permits were issued by the so called ENVIRONMENTAL PROTECTION AGENCY. Not only as a citizen do you have to deal with the deep pockets of the company but also taxpayer money is being used by the state to represent the company!!! There has to be something wrong with this picture!!!

1 ^ | v · Share >

BobSchmetzer → bobash · a year ago

I met with the EPA last Tuesday and asked these type of questions. It seems that even though they do the scientific research and make rules , lobbyist squeeze congress enough to put the rules on hold. The rules on flyash control have been finished and sitting there for 30 years. Your congressman must answer to you ! I wondered why someone didn;t do anything about it, then realized , I am someone !

1 ^ | v · Share >

The_White_Rabbit → bobash · a year ago

Seems like another high level PADEP Legislative person (Tom Santanna) came from private energy now w*****ing for Tom Corporate.

^ | v · Share >

Radar45 · a year ago

What reason would I have to believe an 'analysis' put together by this newspaper? They REFUSE to accept and print an in depth analysis of Scranton's illegal finances and borrowing that was completed last year and handed to them.

Mind blowing that you people believe them. I personally can provide one person for every one you produce with FACTS about whether the drilling is polluting or not.

2 ^ | v · Share >

miserableoldfart → Radar45 · a year ago

Global Warming is real.

Environmental poisoning by fracking is real.

The Beghazi "scandal" is a fraud, as was reaganomics, swiftboating, the smearing of ACORN and Nixon's secret plan to end the Vietnam War.

There is a pattern here, if you look very hard.

4 ^ | v · Share >

Bob Theduck → miserableoldfart · a year ago

"The Beghazi "scandal" is a fraud, " You mean the movie did cause the "rioting" that killed our people over there? After all, our state department was very clear on that.

1 ^ | v · Share >

The_White_Rabbit → Bob Theduck · a year ago

Bob: You do realize 53 Americans were killed in embassy attacks during Bush administration. Where is your outrage? Note that two of the fatalities were professional security (not military) types that are highly paid to take risks in a mercenary capacity. Not to minimize these deaths but more concerned on military deaths everyday in Iraq over bogus WMD. But enough on diverting from the excellent article.

2 ^ | v · Share >

Radar45 → miserableoldfart · a year ago

You forgot one, Obama has no birth certificate.

1 ^ | v · Share >

The_White_Rabbit → Radar45 · a year ago

Radar: I think you should tell that to the numerous civilian and military intelligence organizations that they overlooked Obama's birth certificate when they gave him a security clearance.

4 ^ | v · Share >

BobSchmetzer → Radar45 · a year ago

Check John McCains birth certificate on google. He is foreign born . Panama.....Obama from Hawaii.....

2 ^ | v · Share >

JACK1NEPASKI → BobSchmetzer · a year ago

Romneys parentage was a polygamist colony in Mexico...

2 ^ | v · Share >

James Harding → JACK1NEPASKI · a year ago

Romney was raised by Wolves.....

^ | v · Share >

JimBarth → James Harding · a year ago

No he wasn't. Wolves are incredible. Romney was raised by lapdogs.

^ | v · Share >

The_White_Rabbit → JimBarth · a year ago

Are you sure about that Jim? I heard the lapdogs urinated on Romney and kicked him out of the pack!

3 ^ | v · Share >

The_White_Rabbit → Radar45 · a year ago

Radar: How about producing a link to those USEPA and PADEP reports you pro gas types say show there is no pollution problem at Dimock?

3 ^ | v · Share >

Radar45 → The_White_Rabbit · a year ago

Tell you what wabbit....RESEARCH !!! The internet is for more than porn and youtube.

The "Fracnation" lying docudrama was buried by the follow-up from the mouths of those that live there....

One more, Dimock has had water problems for MANY YEARS before the drilling started....RESEARCH !! Typical liberal, want everything handed to you.

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The_White_Rabbit → Radar45 · a year ago

Still waiting Radar. With your tons of research on the Internet do you have one link to actual EPA or DEP final reports at Dimock or Franklin Forks? You lack of any answers seems to imply what I suspected, more BS and no real data that you claim exists. Come and elucidate us skeptics and prove we are wrong!!!! More silence?

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The_White_Rabbit → Radar45 · a year ago

One more time and try to focus on the specific question Radar. Where is the USEPA and PADEP report that shows there is no pollution problem at Dimock? Is that too hard for you? Are you one of those types that is going to give the Salt Springs State Park example? Even the Indians over hundred years ago knew it was rare (read the Park information) and kept this a secret. They seemed to be more educated on this topic that you are over a hundred years later.

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The_White_Rabbit → The_White_Rabbit · a year ago

Radar: Did you find that report you cite yet????? Clock is ticking (tick, tick, tick, tick.....

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pak152 · a year ago

"The Times-Tribune review notes that, over the course of five years, oil and natural gas development impacted 161 private water supplies. But digging deeper into the data we find that a significant percentage of these incidents occurred before the state updated its casing regulations (finalized in February 2011), which had not been updated since 1989. The updated regulations required oil and natural gas companies to ensure, among other items, that centralizers, special cement, strict pressure testing and multiple layers of protection were used to protect groundwater during the oil and natural gas development process."

<http://eidmarcellus.org/marcel...>

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The_White_Rabbit → pak152 · a year ago

Normally any well requires testing to insure that used flow zones are isolated. This has been going on since wells existed. As I asked Radar, where is your final reports you claim supports your BS statements?

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