

My name is Carol French, a dairy farmer living in Bradford County, Pennsylvania, which is located on top of the Marcellus Shale play. Our water changed on March 15, 2011. Our water turned white, with sand and green particles floating on the bottom of the glass, within 3 minutes our water would gel. We issued a complaint about our water changing, to the Pennsylvania Department of Environmental Protection and we still await our state agencies response and sampling of our water.

1. It is time that the Federal Environmental Protection Agency (EPA) addresses all changes in the composition of our drinking water after natural gas development occurs. (Seismic testing, Drilling, High Volume Pressure Fracturing of the subsurface, etc)

- a. I am providing test results performed on water in Bradford County, PA, which are filed with the Pennsylvania Department of Environmental Protection agency in Williamsport, PA. EXHIBIT A
- b. Not only should the State and Federal Environmental agencies be concerned about the radioactive and highly explosive (Methane, Propane, Toluene, Strontium, etc.) contaminates found in drinking water, but they (EPA, PADEP etc.) should be equal concerned about the combination of high levels of “secondary standard contaminants” (Manganese, Sodium, Iron, etc.). Has the EPA ever asked what the health risk would be when these secondary contaminants reach extreme high levels which were never consumed by human or animals before?
- c. After extensive research, trying to find out why our cows had difficulty in caring a full term pregnancy or giving birth to a still born, and why our (my daughter, age 23 and I age 48) reproductive system was not cycling, as like our dairy cows were experiencing the same reproductive issues. We obtained information from health officials and a Canadian Veterinarian explaining, with the combination of the high levels of Manganese and Sodium, it would cancel out the Copper levels, in return will effect the female reproductive system. This is a HEALTH CONCERN!

2. Why didn't the EPA or the PADEP inform the people living in the Marcellus Shale Play region that the Marcellus Shale Play is the highest RADIOACTIVE shale play in the world? It took foreign dignitaries to inform us about the high levels of radiation in The Marcellus, the by products, and the waste (water, sludge, vapor, steam, mud etc.).

- a. Why does the State and Federal Environmental Protection Agencies stop collecting a paper trail on the produced waste (water, sludge) when it is transported to a processing, storage, manufacturing facility (Pennsylvania's' WMGR123 permits) and then labeled “Beneficial Use”? No matter what process or procedure is performed on this waste, it can not remove the radioactive material and the” agencies” are aware that they can not remove the high concentration of radiation and does not know how to dispose of this waste. The only solutions was to re- label the waste and dump the “beneficial use product” in our high quality “clean streams” and rivers which leads to the Chesapeake Bay. Other beneficial use from this high radioactive waste is fertilizer, or brine salt for our wintry roads, which still becomes a component to water runoff, not to mention what effects it has on our food we consume.

3. You may feel that you are EXEMPT from your decisions, statements or findings, because you do not live in the contaminated areas, or your place of employment may provide certain privileged information & protection from contamination, but I disagree. Until the Environmental Protection Agency can live up to its mission statement, you too, will consume the products produced in the contaminated areas. Like one inspector of another federal agency once told me, "You can't find what you're not looking for, and as long as you meet the "standards" our (United States) food products will continue to be sold and consumed by unsuspecting buyers. Remember your grains, dairy, fruits and vegetables, honey, maple syrup, meats and poultry, all of it will and is becoming contaminated, because of your lack of enforcing THE EPA mission statement.

The mission of EPA is to protect human health and the environment. EPA's purpose is to ensure that: all Americans are protected from significant risks to human health and the environment where they live, learn and work; national efforts to reduce environmental risk are based on the best available scientific information; federal laws protecting human health and the environment are enforced fairly and effectively; environmental protection is an integral consideration in U.S. policies concerning natural resources, human health, economic growth, energy, transportation, agriculture, industry, and international trade, and these factors are similarly considered in establishing environmental policy; all parts of society — communities, individuals, businesses, and state, local and tribal governments — have access to accurate information sufficient to effectively participate in managing human health and environmental risks; environmental protection contributes to making our communities and ecosystems diverse, sustainable and economically productive; and the United States plays a leadership role in working with other nations to protect the global environment.

I sincerely thank you for your time

Carol French
1019 Spaulding Hill Rd
Ulster, PA 18850



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHCENTRAL REGIONAL OFFICE

March 7, 2011

CERTIFIED MAIL NO. 7010 0290 0003 1042 8294

John Pary
525 Spring Hill Road
Laceyville, PA 18623

Re: Act 223, Section 208 Determination
Complaint No. 274348

~~Tuscarora Township, Bradford County~~

Dear Mr. Pary:

The Department has investigated the possible degradation of your water supply well at your residence located at 525 Spring Hill Road, Tuscarora Township, Bradford County, in response to a September 16, 2010 complaint that recent gas well drilling activities may have affected your water well. On September 16, 2010 and December 6, 2010, the Department collected samples from your water supply. The samples were submitted to the Department's laboratory in Harrisburg for analysis. The analytical reports for the samples are included, as well as documents that will assist you with interpreting the sample results. The sample results showed methane is present at 23.1 mg/l and 14.8 mg/l, respectively, in your water supply. Methane gas was also detected in the headspace of your water well. The Department investigation indicates that gas well drilling has impacted your water supply.

Methane is the predominant component of natural gas. Drinking water standard limitations have not been established for methane gas and the Department is not aware of any associated health risks. The true level of concern begins above 28 mg/l methane, which is referred to as the saturation level. At this level, under normal atmospheric pressure, the water cannot hold additional methane in solution. The potential hazard occurs when the water is used for extended periods of time. This may allow the gas to come out of the water and concentrate in the air space of your home or building. There is a physical danger of fire or explosion due to the migration of natural gas into water wells or through soils into dwellings where it could be ignited by sources that are present in most homes/buildings. Natural gas can also cause a threat of asphyxiation, although this is extremely rare.

GENERAL COMPLAINT FILE

See Springhill Rd GMI

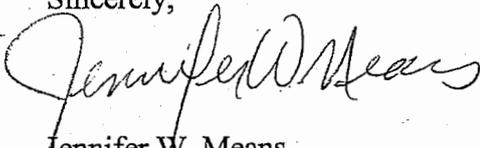
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When the Department is made aware of methane levels greater than 3 mg/l, we notify the water supply owner of the hazards associated with methane in their water supply. Please be aware, however, that the methane levels can fluctuate. This means that even with a relatively low level of methane, you should be vigilant of changes in your water that could indicate an increase in methane concentration.

It is the Department's recommendation that all water wells should be equipped with a working vent. This will help alleviate the possibility of concentrating these gases in areas where ignition would pose a threat to life or property. Please note that it is not possible to completely eliminate the hazards of having natural gas in your water supply by simply venting your well.

The Department is continuing to work to permanently resolve this issue. Should you have any questions concerning this matter, please feel free to contact Eric Rooney at 570.346.5543.

Sincerely,



Jennifer W. Means
Environmental Program Manager
Oil and Gas Management

Enclosures: Laboratory Analytical Results
"How to Interpret A Water Analysis Report"

cc: Jennifer Means
Marc Cooley
William J. Kosmer, P.G.
Eric Rooney
Complaint File
Pary File

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DEP Bureau Of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

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Contact Phone Number: (717) 346-7200

Analytical Report FOR
Environmental Cleanup

Sample ID: 2309 210

Status: Completed

Name of Sample Collector: Eric M Rooney
Date Sample was Collected: 12/06/2010 10:45:00 AM

County: Bradford State: PA
Municipality: Tuscarora Twp

PARY
TUSCARORA TWP, PA.

Sample Medium : Ground Water
Sample Medium Type: Water

Location: NOT INDICATED
Reason: Investigation
Project: NOT INDICATED

Laboratory Sample ID: O2010010521 Date Received: 12/06/2010 Completed
Suite: METH

Legal Seal: H022139 Intact: YES

Test Codes/CAS# - Description Analyst Test Method	Reported Results	Date And Time Analyzed
74986 Propane 12:00 AM DACLEMENS BOL BOL6019	19.8 UG/L (U)	12/09/2010
74851 Ethene 12:00 AM DACLEMENS BOL BOL6019	7.90 UG/L (U)	12/09/2010
74840 Ethane 12:00 AM DACLEMENS BOL BOL6019	723 UG/L	12/09/2010
74828 Methane 12:00 AM DACLEMENS BOL BOL6019	14800 UG/L	12/09/2010

Date of Issue: 02/24/2011 02:02:02
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DEP Bureau Of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

PAGE.

Contact Phone Number: (717) 346-7200

Analytical Report FOR
Environmental Cleanup

Sample ID: 2309 211

Status: Completed

Name of Sample Collector: Eric M Rooney
Date Sample was Collected: 12/06/2010 10:45:00 AM

County: Bradford State: PA
Municipality: Tuscarora Twp

PARY
TUSCARORA TWP, PA.

Sample Medium : Ground Water
Sample Medium Type: Water

Location: NOT INDICATED
Reason: Investigation
Project: NOT INDICATED

Laboratory Sample ID: I2010037245 Date Received: 12/06/2010 Completed
Standard Analysis: 942

Legal Seal: H022138 Intact: YES
Legal Seal: I009145 Intact: YES

Test Codes/CAS# - Description Analyst Test Method	Reported Results	Date And Time Analyzed
01055A MANGANESE T 09:39 AM MOBERCASH EPA 200.7	1823.000 UG/L	12/08/2010
01007A BARIUM T 09:39 AM MOBERCASH EPA 200.7	1062.000 UG/L	12/08/2010
00916A CALCIUM T 09:39 AM MOBERCASH EPA 200.7	54.900 MG/L	12/08/2010
01045A IRON T 09:39 AM MOBERCASH EPA 200.7	575.000 UG/L	12/08/2010
70300U TDS180 -USGS 12:00 AM LWILKINSONUSGS I-1750	300 MG/L	12/07/2010
00929A SODIUM T 09:39 AM MOBERCASH EPA 200.7	35.100 MG/L	12/08/2010
00940A CHLORIDE 08:00 AM CRADEK SM 4500-CL	38.2 MG/L	12/08/2010

00900 Hardness T 186 MG/L 12/08/2010
 09:39 AM MOBERCASH SM 2340 B
 00403 pH 7.9 pH units 12/07/2010
 03:04 PM GDELONG SM 4500H-B
 ** Comment ** Time Limit For Test Exceeded

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Analytical Report FOR
 Environmental Cleanup

Sample ID: 2309 211

Status: Completed

Test Codes/CAS# - Description Analyst Test Method	Reported Results	Date And Time Analyzed
00095 SPC @ 25.0 C	543.00 umhos/cm	12/09/2010
04:12 PM GDELONG SM 2510B		
00410 ALKALINITY	183.4 MG/L	12/07/2010
03:04 PM GDELONG SM 2320B		
00937A POTASSIUM T	2.626 MG/L	12/08/2010
09:39 AM MOBERCASH EPA 200.7		
00927A MAGNESIUM T	11.900 MG/L	12/08/2010
09:39 AM MOBERCASH EPA 200.7		
01082A STRONTIUM T	1827.000 UG/L	12/08/2010
09:39 AM MOBERCASH EPA 200.7		

 The results of the analyses provided in this laboratory report relate only to the sample(s) identified in the report. Unless otherwise noted, the results presented on this laboratory report meet all the requirements of The NELAC Institute (TNI). Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report. Tests noted with "****" are not included in our NJ NELAP Annual Certified Parameter List.

Taru Upadhyay, Technical Director, Bureau of Laboratories

Date of Issue: 09/23/2010 12:09:56

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DEP Bureau Of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR
Oil And Gas Mgmt

Sample ID: 0430 038

Status: Completed

Name of Sample Collector: Robert W Everett

Date Sample was Collected: 09/16/2010 02:40:00 PM

County: Bradford

State: PA

Municipality: Tuscarora Twp

525 SPRING HILL ROAD
(RR3 BOX 3092)
LACEYVILLE

Sample Medium : Ground Water
Sample Medium Type: Water

Location: Sampled at Kitchen Faucet (72% methane in well head space)
Reason: Complaint

Laboratory Sample ID: 02010007488
Completed

Suite: METH

Legal Seal: H003498 Intact: YES
Legal Seal: H003499 Intact: YES

Test Codes/CAS# - Description Analyst Test Method	Reported Results	Date And Time Analyzed
74828 Methane 12:00 AM DACLEMENS	23100 UG/L	09/17/2010
74851 Ethene 12:00 AM DACLEMENS	19.8 UG/L (U)	09/17/2010
74840 Ethane 12:00 AM DACLEMENS	1440 UG/L	09/17/2010
74986 Propane 12:00 AM DACLEMENS	19.8 UG/L (U)	09/17/2010

Date of Issue: 09/23/2010 12:09:04
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DEP Bureau Of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

Analytical Report FOR
Oil And Gas Mgmt

Sample ID: 0430 037

Status:

Name of Sample Collector: Robert W Everett
Date Sample was Collected: 09/16/2010

County: State:
Municipality:

525 SPRING HILL ROAD
(RR3 BOX 3092)
LACEYVILLE

Sample Medium :
Sample Medium Type:

Location: Sampled at Kitchen Faucet
Reason: Complaint

Laboratory Sample ID: I2010029295
Standard Analysis: 942

Legal Seal: H003497 Intact: YES
Legal Seal: H003496 Intact: YES

Test Codes/CAS# - Description Analyst Test Method	Reported Results	Date And Time Analyzed
00929A SODIUM T	50.200 MG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		
00940A CHLORIDE	19.6 MG/L	09/17/2010
02:45 PM CRADEK SM 4500-CL		
00900 Hardness T	107 MG/L	09/20/2010
11:03 AM MOBERCASH SM 2340 B		
00403 pH	8.4 pH units	09/17/2010
02:52 PM GDELONG SM 4500H-B		
** Comment ** Time Limit For Test Exceeded		
00095 SPC @ 25.0 C	419.00 umhos/cm	09/17/2010
01:30 PM GDELONG SM 2510B		
00410 ALKALINITY	168.6 MG/L	09/17/2010
02:52 PM GDELONG SM 2320B		

01082A STRONTIUM T
11:03 AM MOBERCASH EPA 200.7

1979.000 UG/L

09/20/2010

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Analytical Report FOR
Oil And Gas Mgmt

Sample ID: 0430 037

Status:

Test Codes/CAS# - Description Analyst Test Method	Reported Results	Date And Time Analyzed
82079 TURBIDITY	1.56 NTU	09/17/2010
12:33 PM TVOROBECHEPA 180.1		
70300U TDS180 -USGS	218 MG/L	09/17/2010
12:00 AM LWILKINSONUSGS I-1750		
00927A MAGNESIUM T	6.509 MG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		
01055A MANGANESE T	31.000 UG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		
01007A BARIUM T	1029.000 UG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		
00916A CALCIUM T	32.100 MG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		
01045A IRON T	66.000 UG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		
00937A POTASSIUM T	2.879 MG/L	09/20/2010
11:03 AM MOBERCASH EPA 200.7		

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Taru Upadhyay, Technical Director, Bureau of Laboratories

