

MarcellusGas.Org

Document Disclaimer

The information contained in this document represents content obtained from the Pennsylvania Department of Environmental Protection. MarcellusGas.Org makes no claims whatsoever as to the accuracy, timeliness, or completeness of the information provided.

By downloading this document, you agree that you have accepted the terms and conditions set forth in the MarcellusGas.Org User Agreement located at:

http://www.marcellusgas.org/terms_of_use.php



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHCENTRAL REGIONAL OFFICE

11/4/2011

[REDACTED]

CERTIFIED MAIL NO. [REDACTED]

Re: Act 223, Section 208 Determination
Complaint No. 282304
Moreland, Lycoming County

Dear [REDACTED]

The Department has investigated the possible degradation of your water supply well located at [REDACTED] in response to a 8/10/2011 complaint that recent gas well drilling activities may have affected your water well. Several samples were collected from your water supply and submitted to a Department accredited laboratory for analysis.

The sample results showed methane elevated above Department standards in several samples. The Department's investigation indicates that your water supply has been impacted by gas drilling activities. However, the previous impact to your water supply appears to have been temporary, and that water quality has returned to background conditions.

Methane is the predominant component of natural gas. Federal water standard limitations have not been established for methane gas. The 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. 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.

When the Department is made aware of methane levels greater than 7 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.

11/4/2011

The Department is continuing to work to permanently resolve this issue, and will continue to have your water supply as it deems necessary. Should you have any questions concerning this matter, please feel free to contact William J. Kosmer, P.G. at 570-974-2613.

Sincerely,



Jennifer W. Means
Environmental Program Manager
Oil and Gas Management

Enclosures:

Laboratory Analytical Tables 1&2
"How to Interpret A Water Analysis Report"

cc:

Jennifer Means
John Ryder
William J. Kosmer, P.G.
Jeremy Daniel
Complaint File 282304