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pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

DISTRICT OIL AND GAS OPERATIONS

8/13/2015

[REDACTED]

CERTIFIED MAIL NO. [REDACTED]

Re: 58 Pa.C.S § 3218 Determination
Complaint No. 308294
Springfield Township, Bradford County

Dear [REDACTED]

The Department has investigated the possible degradation of your water supply wells located at the above listed address, in response to a 10/20/2014 complaint that gas well drilling activities may have affected your water well. At this time, the Department's investigation indicates that gas well drilling has impacted your water supply.

Water quality samples were collected from your water supplies on several occasions and were submitted to the Department's laboratory or to an accredited third party laboratory for analysis. The analytical reports for the samples were previously submitted to you. Please see the attached documents, which include sampling results regarding the quality of the Water Supplies, as well as information regarding interpreting those results, and important safety information regarding methane in the Water Supplies.

The sample results showed methane was present at between 1.6 and 33.4 mg/l in your water supplies. 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.

208 West Third Street | Suite 101 | Williamsport, PA 17701-6448

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www.depweb.state.pa.us

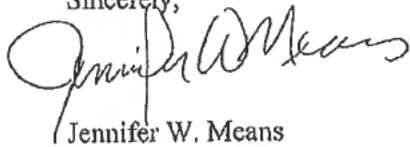
8/13/2015

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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 William J. Kosmer, P.G. at 570-974-2613.

Sincerely,



Jennifer W. Means
Environmental Program Manager
Oil and Gas Management

cc:

Jennifer Means
William J. Kosmer, P.G.
Matt Nuss
Sharon Steinbacher
Sasha Minium

[REDACTED]

[REDACTED]