



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHCENTRAL REGIONAL OFFICE

March 25, 2011

CERTIFIED MAIL NO. [REDACTED]

Re: Act 223, Section 208 Determination
Complaint No. 274088 and 274465
[REDACTED]

Dear [REDACTED]

The Department has investigated the possible degradation of your water supply well located at your residence at [REDACTED] in response to a 9/7/2010 and 9/21/2010 complaint that recent gas well drilling activities may have affected your water well. On 11/4/2010, 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 manganese and iron in your water at 0.424 milligrams/Liter (mg/L) and 0.448 mg/L, respectively. These concentrations exceed the secondary maximum contaminant level (SMCL) of 0.05 mg/L for manganese and 0.3 mg/L for iron. SMCLs are guidelines regulating compounds that may cause aesthetic effects (taste, odor, color) in drinking water. The pre-drill laboratory results collected by Chesapeake on 5/14/2010 from your well indicated manganese (at or less than 0.0150 mg/L) and iron (0.07 mg/L) below their respective SMCLs. The Department investigation indicates that gas well drilling has impacted your water supply.

March 25, 2011

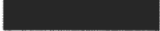
The Department is continuing to work to permanently resolve this issue. Should you have any questions concerning this matter, please feel free to contact Eric Rooney at 570.346.5543.

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




pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

November 7, 2014

[REDACTED]
[REDACTED]
CERTIFIED MAIL NO. [REDACTED]

Re: 58 Pa. C.S. § 3218 Determination
Complaint No. 274088 & 274465
Tuscarora Township, Bradford County

Dear [REDACTED]

The Department has investigated the degradation of your home's water supply well located at the above mentioned address in Tuscarora Township, Bradford County, in response to a complaint that gas well drilling activities may have affected your water well. The Department collected combustible gas readings and water samples from your well. The combustible gas readings and water sample results indicated that gas well drilling had impacted your water supply, and on 3/25/2011, the Department issued a letter of positive determination describing this impact.

Subsequent to the issuance of the 3/25/2011 determination letter, additional combustible gas readings and water samples were collected from your water supply as part of an intensive investigation. The combustible gas readings and water samples were collected by the Department and a qualified third party and samples were submitted to the Department's laboratory and an independent accredited laboratory for analysis. The analytical reports for those samples were previously submitted to you. On 6/9/2014, the Department collected additional samples from your home water supply. The samples were submitted to the Department's laboratory in Harrisburg for analysis. The analytical report for the 6/9/2014 sampling event are included with documents to assist you with interpreting the sample results. The Department's investigation indicates that the previous impact to your water supply was temporary and your water supply appears to have returned to the background conditions which existed before gas well drilling occurred near your home.

Based on water quality sample results to date, the Department does not anticipate requiring any further action in relation to this matter. Should you have any questions, please feel free to contact Eric Rooney, P.G. at 570-346-5543.

Sincerely,

Jennifer W. Means
Environmental Program Manager
District Oil and Gas Operations

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