



December 4, 2019

CERTIFIED MAIL NO. [REDACTED]

Re: Water Supply Request for Investigation # 343702
58 Pa. C.S. § 3218 Determination
Auburn Township, Susquehanna County

Dear [REDACTED]

The Department is investigating the possible degradation of your water supply well located at the above referenced address ("Water Supply"), in response to a complaint received on July 17, 2019 that recent gas well drilling activities may have affected your Water Supply. The Department's investigation to this point, prompted by information you and Cabot Oil & Gas Corp. ("Cabot") provided, indicates that oil and gas activities are presumed to be the cause of the pollution of your Water Supply.

Summary of Investigation

On July 17, 2019, the Department received an electronic notification that your Water Supply had become discolored, developed an odor, and exhibited effervescence. After initially declining Department involvement, you allowed the Department to commence an investigation on July 19, 2019. The Department collected a sample that day and again on July 23, 2019, and September 16, 2019. The samples were submitted to the Department's laboratory in Harrisburg for analysis. The analytical reports for the samples were previously provided to you but are summarized in the enclosed table for your convenience.

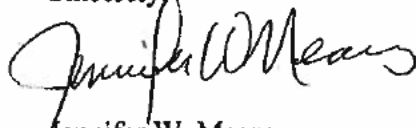
Results of samples from your Water Supply showed that dissolved methane was detected at concentrations greater than your predrill analysis. The July 19, July 23, and September 16, 2019 sample results showed dissolved methane was present in your Water Supply at 11.8 milligrams per liter (mg/L), 14.9 mg/L, and 17.2 mg/L, respectively. The predrill concentration was found to be <0.015 mg/L. Dissolved ethane was found in your Water Supply at 0.507 mg/L, 0.606 mg/L, and 0.668 mg/L. The predrill concentration was <0.005 mg/L. Dissolved propane was detected in the Water Supply at 0.0164 mg/L, 0.0185 mg/L, and 0.0237 mg/L. The predrill concentration was <0.005 mg/L. Manganese and Turbidity were also elevated above predrill conditions and Department standards in samples collected by the Department, as shown on the enclosed table.

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Because drilling activities occurred at a gas well within two thousand five hundred feet of your Water Supply, and the pollution occurred and was reported within one year after completion of those activities, under Section 3218 of the Oil & Gas Act (58 Pa C.S. §3218), the gas well operator is presumed to be responsible for the degradation of your Water Supply.

It is the Department's understanding that you are currently being provided supplied drinking water. The Department is continuing to investigate and is working to permanently resolve this issue. Should you have any questions concerning this matter, please feel free to contact Eric Rooney, Licensed Professional Geologist at 570-346-5543.

Sincerely,



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

Enclosures:
Laboratory Analytical Results Table

cc: Michael O'Donnell
Eric Rooney, P.G.
Briana Cunningham

Complaint File #: 343702