



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

NORTHWEST REGIONAL OFFICE

November 20, 2013

CERTIFIED MAIL NO. [REDACTED]

Re: Section 3218 of the 2012 Oil and Gas Act, Water Supply Temporarily Affected
Case No. 290406

[REDACTED]
Pulaski Township, Lawrence County

Dear [REDACTED]

The Department of Environmental Protection (DEP) has completed its investigation of the Water Supply identified above, which is located approximately 801 feet from a gas well that Hilcorp Energy Company drilled, [REDACTED]

Samples from the Water Supply were collected by a qualified third party, and submitted to Pennsylvania-accredited laboratories for predrilling analysis. Based on the analytical results of samples taken on February 9, 2012, which was taken by Environmental Service Laboratories, and post drill samples taken by DEP on August 1, 2012 and November 8, 2012, DEP has determined that the Water Supply was temporarily affected by nearby gas drilling well activities. Specifically, there was turbidity, iron, manganese, and headspace gas shown to be present in your water supply above predrill levels.

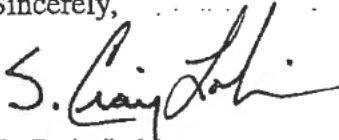
However, based upon the analytical results of the samples taken on November 8, 2012, DEP has determined that the affect on the Water Supply was temporary and that the Water Supply quality has returned to pre-drill levels or are now at or below the applicable Maximum Contaminant Levels under the Pennsylvania Safe Drinking Water Act. A subsequent sample taken on January 24, 2013, for Total Coliform resulted in an absent result. The result had been present in the post drill samples obtained by Hilcorp on November 8, 2012. Hilcorp had consequently installed an ultraviolet light to treat the Total Coliform, and this treatment remains on the system.

A copy of the analytical results for the Water Supply samples referenced in this letter are enclosed. Following are links to information that can assist you with interpreting these results:

<http://extension.psu.edu/water/converted-publications/how-to-interpret-a-water-analysis-report>
http://www.dep.state.pa.us/dep/deputate/watermgt/WSM/WSM_DWM/PA-MCLs_05.pdf
<http://water.epa.gov/drink/contaminants/secondarystandards.cfm>
<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-94847/8000-FS-DEP4309.pdf>


This letter concludes DEP's investigation, and we do not anticipate requiring any further action regarding the Water Supply. In the meantime, please contact Christine Miner at 814.332.6860 if you have any questions about the Water Supply.

Sincerely,



S. Craig Lobins
Northwest District Oil and Gas Manager
District Oil and Gas Operations

Enclosures: Laboratory analyses

cc: Ms. Stephanie McMurray, Hilcorp Energy Company
Scott Lux (w/encl.)
Doug Welsh (w/encl.)
Christine Miner (w/encl.)


CJM:ls1