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pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DISTRICT OIL AND GAS OPERATIONS

March 24, 2014

CERTIFIED MAIL NO. [REDACTED]

Re: Section 3218 of the 2012 Oil and Gas Act
Water Supply Affected/Not Presumptive Liability
Case No. 297871

[REDACTED]
Porter Township, Clarion County

Dear [REDACTED]

The Department of Environmental Protection (DEP) has completed its investigation of the Water Supply identified above. Samples were bailed from the Water Supply by Brian Shank and Chad Meyer on June 28, 2013. Analytical results showed 18.9 mg/l methane, 4.41 mg/l ethane, and 1.38 mg/l propane in the water well located to the north of your house. Results obtained from a shallow, dug water supply on the same day were non-detect for gases. Another type of sample was also taken to characterize the gas that is in your Water Supply. That sample showed that the gas was likely thermogenic in origin, meaning that it was coming from a deeper source, rather than a biogenetic, microbial source. A final sample was bailed from your water supply on March 5, 2014. This sample indicated that gases in the water were diminishing (8.46 mg/l methane, 0.8 mg/l ethane, and non-detect propane).

DEP has determined that the effect on the Water Supply was caused by Snyder Bros., Inc. [REDACTED] Gas levels in the headspace of the Water Supply returned to very low, background levels after the named gas well was repaired. Also, the gas stopped bubbling in the well bore.

Copies 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/watermgmt/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>

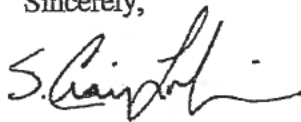
Northwest District Oil and Gas Operations | 230 Chestnut Street | Meadville, PA 16335-3481 | 814.332.6860

Fax: 814.332.6120 | www.depweb.state.pa.us

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This letter concludes DEP's investigation, and we do not anticipate requiring any further action regarding your Water Supply. Inspector Travis Walker will be monitoring your water supply periodically over the next few months. Prior to these events, he will contact you by phone in order to alert you. Thank you for your patience in this matter. Please contact Christine Miner at 814.332.6860 if you have any questions.

Sincerely,



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

Enclosures: Laboratory Analysis: DEP and Isotech Laboratories

cc: Snyder Bros. Inc. (w/encl.)
Travis Walker (w/encl.)
Doug Welsh (w/encl.)
Brian Shank (w/encl.)
Ruth Taylor (w/encl.)
Chad Meyer (w/encl.)
Anthony Opredek (w/o encl.)
Christine Miner (w/encl.)
File: Clarion County Gas Migration-Identifier 297871

CJM:isl