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Pennsylvania Department of Environmental Protection

321 North State Street
North Warren, PA 16365
July 21, 2009

Warren District Office

814-723-3273
Fax: 814-723-0964

CERTIFIED MAIL NO. [REDACTED]

[REDACTED]

Re: CID NO. 263963

[REDACTED]
Act 223 Section 208 Determination
Bradford Township, McKean County

Dear [REDACTED]

The Department has investigated, in response to your June 9, 2009 complaint, the possible contamination of your water supply by nearby oil and gas activities.

After reviewing the results of your spring water analysis, combined with visual evidence observed on June 10, 2009 by Department staff, the Department has concluded that your water supply was influenced by recent oil & gas well development conducted by U.S. Energy Development Corporation upslope of your spring. The lab analysis of the sample collected by the Department on June 10, 2009 indicated levels of Aluminum that were in excess of EPA's drinking water standards. Concentrations of chlorides, calcium, iron and sodium were appreciably higher in samples obtained by the Department (on June 10, 2009 & June 15, 2009) than what was documented by a pre-drill sample collected by U.S. Energy on May 11, 2009. Elevated levels of these parameters are indicative of an infiltration of drill cuttings and/or cement into the shallow ground water that supplies your spring. A pond that is fed by the overflow of your spring was grayish blue in color on June 10, 2009 and subsequent days, which is another indication of drill cutting contamination. Sampling conducted on June 24, 2009 revealed that the quality of your drinking water met the standards established by EPA. During the course of the Department's samplings, there was no detection of Total Petroleum Hydrocarbons in your spring's water.

It was recommended to you during a telephone conversation that your spring and water system be disinfected prior to resuming use of the spring as a potable water supply.

Enclosed are the complete water sample analysis results and a fact sheet to help you interpret the report. If you have any questions, or if any future issues arise, please contact me at 814-723-3273.

Sincerely,

Brian B. Ayers
Water Quality Specialist
Oil & Gas Management

Enclosures

cc: NWRO
WDO

