

From: [Axelson, John](#)
To: ["darylburkhart@hotmail.com"](mailto:darylburkhart@hotmail.com); ["Daryl and Cynthia Burkhart"](#)
Cc: [Spray, Karen](#); ["Greg Garrison"](#); [Scan, OGCC](#)
Subject: Water Well Complaint #200340214
Date: Saturday, March 17, 2012 10:39:48 AM
Attachments: [Burkhart well.xls](#)
[J25805-1 UDS Level 2 Report Final Report.pdf](#)
[TABLE1_ANALYTICAL_SUM_2012.xlsx](#)

Daryl,

As a follow up to the laboratory report I sent to you on 3/2/12, I am providing a summary of the results in the attached Table 1. I compared the results from the sample collected on 2/20/12 to the original baseline results collected on 3/16/11. The most recent sample results are consistent with the baseline results. In addition, the results for TPH – DRO & GRO, BTEX and Methane were all non-detect again.

I've also attached a copy of the field data form prepared by Terracon for your records. Terracon collected a sample for Biological Activity Reaction Test to determine the presence of bacteria. These results were also consistent with past results indicating the presence of Iron Related Bacteria (IRB) only. The overall aggressivity of the IRB population is low. Although I don't have a specific explanation for the recent odor/taste issues related to the water from your well, routine maintenance and treatment to eliminate bacteria may improve the overall aesthetic quality of the water.

As you are aware, representatives of Chesapeake also collected a split sample from your water well. They provided a copy of the laboratory report to COGCC. The results from their analyses were consistent with the COGCC sample results. A copy of the report provided by Chesapeake is also attached for your records.

I also contacted a representative of Chesapeake regarding recent operations at the State 2-16-1 (API #123-31432), formerly known as the Pawnee 2-16-1. There have been no spills, releases or operational problems that could have resulted in an impact to shallow groundwater.

Based on the sample results and operational history of the State 2-16-1, COGCC finds that there has been no impact to groundwater quality in the vicinity of your residence related to oil & gas operations. As a result, your complaint #200340214 is closed with this email.

If you have any questions, please give me a call.
Thank you,

John Axelson, P.G.
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Cc. Complaint #200340214 – Closure Correspondence