



**RANGE** RESOURCES

January 14, 2011

Mr. and Mrs. John Voyles  
1085 McAdams Road  
Washington, PA 15301

Re: Voyles Water Well Complaint  
Yeager Impoundment  
Amwell Township, Washington County

Dear Mr. and Mrs. Voyles:

This letter is to notify you that Range Resources – Appalachia, LLC (Range Resources) has received the information you provided with regard to your concern over both the quantity and quality of the water from your spring and water well. We understand and appreciate your concerns for your water quantity and quality and what you perceive as a potential impact resulting from our operations at the well pad near your home (Yeager well pad) and the water impoundment near your home (referred to as the Yeager Impoundment). Therefore, we have devoted our time and effort to assist you in finding a solution for your perceived water quality issue.

On August 25, 2010, you advised us that you noticed that you had been experiencing a low yield from your spring water supply since approximately June, 2010. Upon reviewing the complaint, Range Resources concluded that your spring was located approximately 800 feet from our Yeager Impoundment, which was constructed during the months of January and February of 2010. During our investigation, it was determined that the spring is located near McAdams Road (near a ridge top) and a storage tank is in place. When reviewing the drainage area that contributes water to your spring source, it was noted that the construction area of the impoundment may have inadvertently changed the drainage area contributing to your spring. This change in drainage area, added to the drought conditions of the summer (July, 1.0 inch below normal precipitation and August, 1.5 inches below normal precipitation) could have possibly affected the amount of groundwater supplied to the spring. With these findings from our investigation, on September 9, 2010, Range Resources ordered a temporary water supply to be delivered by Dean's Water Service to your residence. We additionally asked for you to solicit quotations from contractors of your choice for drilling/construction of a water well as a permanent replacement water source for your spring.

On September 28, 2010, Range Resources paid you for drilling/construction of a water well in accordance with the quotations that you received. Ongoing delivery/supply of the temporary water source was continued until such time the water well was constructed by Westbrook Well Drilling and put into operation on October 20, 2010.

On November 9, 2010, we received a complaint from you with regard to your water quality, stating that you believed your water supply(ies) were contaminated with anti-freeze and

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pesticides. You also stated that you believed that the death of your dog on July 13, 2010 and the death of your horse on October 17, 2010 were in relation to your perceived water quality issues. In response to your concern, Range Resources ordered sampling and laboratory analysis for water quality of both your well and spring, including testing for ethylene glycol (a chemical in anti-freeze). This sampling was conducted on November 10, 2010 by Microbac Laboratories, Inc. (Microbac), an independent, state-certified laboratory. At the time of your complaint, Range Resources again arranged for a temporary water source to be delivered by Dean's Water Service for your home. It should be noted that, based on our review, your water supply was determined to be approximately 1,400 feet from the closest gas well on the Yeager Well Site. As a result of the distance from your water source to the well, no pre-drill water testing was conducted on your water source by Range Resources.

On November 10, 2010 you voluntarily supplied Range Resources with lab results from both your dog and horse veterinarians. Upon review of these results, Range Resources contacted the canine and equine veterinarians. Based on our conversations with the canine veterinarian on or about November 11, 2010, it was stated by the veterinarian that the test results were inconclusive for anti-freeze poisoning and that another possible cause of death which was relayed to you was cancer, which the particular breed is prone to develop. Upon speaking with the equine veterinarian on November 19, 2010, the veterinarian stated that the test results were inconclusive as to the cause of death. The veterinarian indicated that the horse had toxicity of the liver, which he felt was not related to anti-freeze poisoning but most likely due to exposure from heavy metals such as mercury or lead.

On November 19, 2010, following conversations with the veterinarians, Range Resources ordered additional testing of your water supplies, including testing for heavy metals such as arsenic, mercury, and lead. The sampling for the additional water tests was performed on November 19, 2010 on the spring and on November 23, 2010 on the new well. The delay in sampling of the water well resulted because the delivered water for the temporary water supply had to be emptied from your cistern prior to sampling the well water.

On January 6, 2010 Range Resources received the complete testing results from Microbac. Upon review of the information provided, the test results from the November 10, 2010 samples taken from the spring and new well indicate that both of your water supplies meet all of the Environmental Protection Agency's (EPA) minimum primary drinking water standards for all parameters tested. Based on your concerns, we had also tested for ethylene glycol which was not detected in the water from either of your water supplies tested in this sampling event. In addition, methane, ethane, nor oil and grease were detected in either of your water supplies during this sampling event. These results indicate that Range Resources' operations at the Yeager impoundment and at the Yeager well pad have not affected the quality of the water from your spring or your water well in any way.

Review of the test results from the November 19, 2010 and November 23, 2010 samples taken also indicate that both of your water supplies meet all of the EPA's minimum primary drinking water standards for those parameters tested. In addition, based on your concerns and our conversations with your veterinarians, Range Resources once again tested for ethylene glycol and tested for heavy metals, including arsenic, lead, and mercury which were a major concern.

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The test results from these sampling events indicate that neither ethylene glycol nor any of the heavy metals including arsenic, mercury, or lead were detected in the samples taken from your spring and your water well. Additionally, once again methane, ethane, oil and grease, methanol, and ethanol were not detected. These results confirm the results from the November 10, 2010 sampling event, indicating that Range Resources' operations at the Yeager impoundment and at the Yeager well pad have not affected the quality of the water from your spring or your water well in any way.

The field sheet completed by the laboratory field technician verified the location of your spring and new water well to be approximately 1,400 feet from the nearest Yeager gas well. The first gas well on the Yeager well site was spud September 11, 2009 and completed December 15, 2009. Operations to spud additional wells resumed more recently on December 22, 2010 and December 23, 2010 and were suspended on December 24, 2010 reaching a depth of 40 feet for each well. Additionally, the field sheet confirms the location of your spring and new water well to be approximately 800 feet from the Yeager impoundment. The laboratory report, including field observations and analytical results, is included with this letter for your information.

After thoroughly examining all of the information available at this time, we have concluded that your water quality has not been impacted by our operations. With concurrence from the DEP, Range Resources plans to discontinue temporary water service to your home by January 21, 2011.

Range Resources is committed to the safe and responsible development of natural gas in our state. If you have any questions or need further assistance please contact your Range Resources land agent, Bob Saflin at 724-873-3280, or myself at 724-743-5260.

Sincerely,

RANGE RESOURCES-APPALACHIA, LLC.



Laura M. Rusmiser, E.I.T.  
Sr. Regulatory Compliance Specialist

Enclosure: Microbac lab analyses

cc: Vince Yantko, with enclosures (Pennsylvania DEP, Bureau of Oil and Gas Management)  
Bryon Miller, with enclosures (Pennsylvania DEP, Bureau of Oil and Gas Management)