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**From:** "Shaver, Dave" <dshaver@coalsource.com>  
**To:** "April Abate" <aprilabate@utah.gov>, "Karla Knoop" <kknoop@jbrenv.com>  
**CC:** "Jim Smith" <JIMDSMITH@utah.gov>, "Karl Houskeeper" <KARLHOUSKEEPER@utah...>  
**Date:** 6/10/2009 4:24 PM  
**Subject:** RE: June 9th 2009 Meeting to Discuss Well #1

Hi April... This is a good summary of the discussion we had. I will be in Philadelphia all next week, but will initiate efforts soon thereafter to get the pump lowered, repaired or replaced, whatever we need to do to get the samples coming again.

Dave

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From: April Abate [mailto:aprilabate@utah.gov]  
Sent: Tuesday, June 09, 2009 11:52 AM  
To: Shaver, Dave; Karla Knoop  
Cc: Jim Smith; Karl Houskeeper; OGMCOAL@utah.gov  
Subject: June 9th 2009 Meeting to Discuss Well #1

Hello Dave and Karla,

Thank you for coming in today to meet with me to discuss the issues associated with Well #1. Groundwater from this well has not been detected and/or adequate enough to sample since the fall of 2006.

Based on our conversation today, this was one of the original three wells associated with the Pinnacle mine operation that was drilled about 30 years ago to provide a water source for the mine. The other wells (Wells 2 and 3) are presently inactive or have been sealed. Although we were unable to find any records of a well log, we do know that this well was originally drilled to approximately 150 feet and later advanced to approximately 250 feet where its bottom is set in the Aberdeen sandstone below the lowest coal seam. The static water level measured in this well averaged approximately 75 feet for a long time until the fall of 2006. One theory is that due to a ventilation fan being installed in the fall of 2006 at an approximately 400 foot distance from the well, the vent fan may have possibly interrupted or intercepted groundwater flow.

We discussed some troubleshooting measures that involve removing the pump from the well to determine if there are any a)obstructions in the well b) if the pump is in need of maintenance, or c) if the pump just needs to be set lower into the water table. If these measures do not

work, we will discuss alternative means of sampling groundwater resources.

April A. Abate

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