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May 30, 2009

Chad Burns  
City of Hanston  
PO Box 165  
Hanston, KS 67849

Dear Chad;

It was good to meet with you concerning daily operations at the city.

**Daily chlorine residuals:** Every public water supply system in Kansas must monitor and record chlorine residuals daily. Your daily chlorine residuals have been averaging 1.0 mg/l free chlorine. These records must remain on file for ten years.

**Routine bacteriological sampling:** Every public water supply system in Kansas must collect routine bacteriological samples each month. Your system is required to collect two monthly samples that are free of coliform bacteria to remain in compliance with KDHE. We reviewed the results of your samples they are negative and the city has no monitoring violations at this time.

**Back up operator:** We discussed the back up operator program. KDHE encourages all systems to have a back up operator for time of absence. There is financial assistance available through KDHE for training of back up operators.

**Plumbing issues:** We discussed water hammer and plumbing issues that is occurring with the operation of one of the wells. A variable frequency drive on the pump motor will eliminate these problems as well as provide a full range of motor protection against loss of phase, phase reversal, voltage or amperage problems, incoming imbalances or spikes. In addition a pressure transducer can be installed inline and the well be operated on pressure demand as needed when the water tower is out of service for maintenance. What's nice about that is the drive will gently ramp the motor up and down based on the system demand without the use of a pressure blow off valve to relieve excess pressure.

**Meter Testing:** We discussed plumbing modifications to facilitate a field test of the master meters at the wells. As we discussed a two-inch tap after the meter with a valve directly down stream of that is what is needed. We discussed different options and potential plumbing configurations to achieve this objective. These meters should be tested at least every three years as recommended in the water conservation plan.

Please call if I can be of any other help.

Sincerely,

Jon Steele  
Circuit Rider

C: Vickie Wessel, KDHE  
Gary Smith, USDA Rural Development