



# The G.F. BOWMAN PIPELINE



PLUMBING, HEATING, AIR CONDITIONING

SPRING 2008



## “GO GREEN” with The Bowman Team!


“GOING **GREEN**” or “GO **GREEN**” are phrases that we are hearing more and more. So what exactly does it mean to “GO **GREEN**”? Simply put, “GO **GREEN**” means to take care of where we live – EARTH. The thought of “GOING **GREEN**” may seem overwhelming, but there are small adjustments that everyone can make towards the green movement. Something as simple as taking your coffee mug to buy your morning cup of coffee, rather than using the throw away paper cup that is provided, will reduce the amount of trash being tossed. If you love your gas guzzling SUV don't feel guilty, however make sure it is properly serviced so you get the best possible miles per gallon. Save on water consumption by only running your dishwasher when it is completely full. Curbside or drop off recycling is available in most townships, and if not, ask your local township for it. Also, remind the kids they can sell aluminum cans at the local recycling center for extra spending money. These are small steps almost everybody can take towards “GOING **GREEN**” to help the environment.

Some of our customers have already “GONE **GREEN**” by installing water saving faucets, hydrants, tankless water heaters, high efficiency furnaces, heat pumps, and geothermal heating and air conditioning systems. You can also “GO **GREEN**” by calling us to evaluate the efficiency of your home's plumbing, heating and air conditioning systems. The savings on energy consumption will benefit you, your family, and where we live – Earth.


Keep us in mind when it is time to repair, replace, or install your plumbing, heating, or air conditioning needs. “GO **GREEN**” with the Bowman Team. Thank You for the opportunities.

Larry D. Bowman

## Going Green with Geothermal


 *How does Geothermal heating and cooling work?*

Geothermal systems take advantage of the constant ground temperature of about 55 degrees to transfer heat in and out of your home through bore holes or water. This is done using earth loops that are either closed loops or open loops.

 *What does an open or closed loop mean?*

An open loop system pumps water from a well and discharges into another well or pond (pump and dump). A closed loop system (more common in our area) uses a solution of water and environmentally safe antifreeze and can be applied various ways. This application circulates this glycol solution through ground loops. The most common ground loop in our area is a vertical loop system (shown above), which is used where space is limited.



 *What is the benefit of installing a Geothermal system?*

Geothermal systems can save between 40%-60% in energy costs throughout the year versus a traditional heating and air conditioning system.

 *Are Geothermal units quiet?*

Geothermal units operate very quietly and do not require an outdoor unit. This completely eliminates any noise created by an outdoor unit; in its place, you can plant a shrub or flowers and help to keep things **GREEN**.

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## What are you drinking?

Does your water come from a well in your backyard or from a municipal water supply? No matter what your water source, do you know what is in your water? Could it be hard water, which causes you to feel as if the soap is not washed off your body when you take a shower? Does your water have too much iron causing your sinks and bathtubs to have a yellowish-red stain (shown right)?



G.F. Bowman, Inc. can help you determine what is in your water by taking a water sample from your home. We test initially for hardness, iron, ph levels, and total dissolved solids (tds, the total of minerals dissolved in the water). The results will help us determine if your water supply needs to be treated and/or conditioned. Treating and/or conditioning your water will help you save money on cleaning products, helps your appliances last longer by reducing mineral build up, and also helps your clothing last longer.

Those on well water may have another concern of having harmful bacteria in your water. G.F. Bowman is skilled in taking samples and then having a certified lab test the samples for bacteria. If bacteria is found in your water or you just want peace of mind without continually testing, we recommend installing a Sterilight Ultra Violet Unit (UV light). This unit will kill the bacteria in your water system and provide you and your family with safe water to drink.

G.F. Bowman can also offer you clear, fresh, sparkling drinking water directly from your tap, which helps you eliminate bottled water, just ask us how.

**Tip: Compact Fluorescent Bulbs use two-thirds less energy and last 10 times longer than standard incandescent bulbs**



## Geothermal (Continued)



### Can I use Geothermal for Radiant floor heating?

In some cases a Geothermal unit can be used in radiant floor heating. They can also assist in producing the hot water used in the home. Baseboard heating and radiators require greater water temperatures and should be installed with boilers.

### How big does the Geothermal system have to be?

Every house is different. A heat gain/heat loss analysis would be performed on the house by one of our system designers. This calculation will determine the size of equipment needed for the application and the size of the ground heat exchanger.

## Home Show Winner



Bob Berkheimer (right) presents the winner, David McKain (left) of Palmyra, the prize flat screen TV from the 2008 PA Home Show

A Big THANK YOU to everyone who came to visit our booth at the 2008 PA Home Show.

Thank you for your support!

*The Bowman Team*



## BOWMAN DEPARTMENT SPOTLIGHT



# Heating, Ventilating, and Air Conditioning

“Spring is here and everything is turning **Green** again”.

This statement has more than one meaning these days.

The first, and of course traditional meaning, is that the grass is starting to grow, the bulbs are starting to push their tender new flowers out of the ground and the buds are beginning to appear on the trees. What a wonderful time of year.

The newer meaning for the word “**Green**” has to do with all the things we as human beings do to help keep these “**green**” things **green**. The entire nation seems to have a “**Green**” agenda these days with Hybrid cars, Bio fuels, EnergyStar appliances and the like. These are all good things that will help keep our environment **green**.

So what does “**Green**” have to do with the Heating, Ventilating, and Air Conditioning (HVAC) service technicians at G. F. Bowman? I’ll tell you. Although we wear RED uniform shirts we are “**Green Collar**” workers. Our job is to provide you with the services and repairs to keep your heating and air conditioning equipment in the best possible working condition. This is done with years of training and experience and up to date tools and instruments to fine tune your system. The better your system works the less energy it consumes. The less energy it consumes the less fuel we need to burn to produce the energy. The less fuel we burn the less emissions there are into the atmosphere and the “**greener**” the planet will be.

Every year the efficiencies of the heating and cooling equipment gets higher and higher, lowering the energy consumption of our heating and air conditioning systems. Other advances such as variable speed motors, hybrid heating systems and newer, more environmentally friendly refrigerants are helping our technicians to be better “**green collar**” workers.

So does this mean you need to buy all new heating and air conditioning equipment if you want to help keep things **green**?



The Bowman Team Heating, Ventilating, and Air Conditioning Service Department: Left to Right: Matthew Hix, Jerry Fessler, Joe Smith, Joe Kobielnik, Jason Reidel, Wilson Newhouse – Manager  
Not Pictured: Joe Hile

Of course not, just call on the “**Green Collar**” guys in the RED shirts, the G. F. Bowman HVAC Service Team. We will evaluate your system, address your heating and cooling needs and get your equipment operating in the “**greenest**” condition possible. It is not important if you have the best possible equipment, it is more important that the equipment you do have is in the best possible condition. If that equipment is starting to shrivel on the vine we will be glad to give you a few ideas about what is available to replace it and put you in touch with one of our system designers who can work with you on the best solution for your individual need.

So in conclusion, as you stroll through that tender new grass, enjoying the spring flowers and the fresh buds on the trees remember to call the guys in red, The G. F. Bowman HVAC Service Department to keep your Heating and Air Conditioning Equipment “**Green**”.

Wilson Newhouse  
HVAC Service Manager



# "GET THE BOWMAN TEAM WORKING FOR YOU"



## Water Alarm

Do you know when water is lying in your home waiting to ruin what ever is around it? G.F. Bowman has the solution for you, a Water Alarm.

A Water Alarm can be placed at your washing machine, next to your water heater or furnace, behind your toilet, under the sink, or near any pipes. It will help you detect even a small amount of water before it turns into a big problem. When water touches it's sensors, the alarm will make a loud sound.

Come in to G.F. Bowman today to see a demonstration or to find out more information.



We are proud to be members of, and associated with, these fine organizations



## G.F. BOWMAN, INC.

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## Fruit Pizza



Spring time is a time of color and here is a recipe with lots of COLOR!

\* Preheat oven to 350° F. Slice an 18 oz package of refrigerated sugar cookie dough and arrange on greased pizza pan, overlapping edges. Press dough flat into pan. Bake for 10 to 12 min. Allow to cool.

\* In a large bowl, soften 8 oz of cream cheese, then fold in an 8 oz container of frozen whipped topping, thawed. Spread over cooled crust. Chill for a while or start to arrange your fruit. Begin with strawberries, sliced in half. Arrange in a circle around the outside edge. Continue with fruit of your choice, working towards the middle. If bananas are used, dip them in lemon juice so they don't darken. Then make a sauce (see below) to spoon over fruit.

\* In a saucepan, combine ½ cup white sugar, a pinch salt, 1 Tbs cornstarch, ½ cup orange juice, 2 Tbs lemon juice, and ¼ cup water. Cook and stir over medium heat. Bring to a boil, and cook for 1-2 min., until thickened. Remove from heat, add 1/2 tsp orange zest. Allow to cool, but not set up. Spoon over fruit. Chill for two hours, then cut into wedges and serve.



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