

# Underground Tank System Broke Chains Of Gas Fuel Industry

Green's Fuel, Inc., is a Florida company, founded by a Floridian who wanted to improve an industry.

J. B. Green of Sarasota not only worked out the Green's Fuel formula of Liquefied Petroleum gas and designed the then brand new storage and delivery system. But he also developed the Green's Fuel distribution system which takes Green's Fuel throughout Florida and the southeast. Green took the Liquefied Petroleum gas business out of the "bottle" class and moved it into the bulk business where the fuel sold by the hundreds of gallons to a customer. He just wanted to take advantage of the fine qualities of LP-Gas and pass it on to the consumer.

After Green developed his underground gas system—he thought a tank installed above the ground would be unsightly—he started the Green's Fuel System.

He also started distributing the gas which he called Green's Fuel and it proved so popular in his territory that he started to expand the operation.

He started franchising independent dealers, allotting territories to them. He was very strict in his requirements, particularly in regard to safety. He had to be satisfied that a man wanted to provide an economical gas to the public with full regard for safety and efficiency before he could secure a franchise.

Green's Fuel expansion took place at an astounding fast rate. Today every county in Florida has at least one Green's Fuel representative and his franchise holdings extend as far north as the Carolinas.

Green's Fuel, Inc., maintain a gas engineering service—training service—gas brokerage and routine service and many other services for their franchised dealers who, in turn, offer a superior LP-Gas service for their many thousands of customers.

The Green system came about when most LP-Gas was sold in small steel tanks, commonly called "bottles." They were filled at bottling plants, re-filled and re-delivered. It was a job for the home owner to keep a steady balance with his gas supply.

Green saw the great advantages of LP-Gas and saw that it needed only a better storage tank so that it could be shipped in great bulk lots from the producer to bulk tank stations. The bulk buying naturally reduced the cost. From the bulk tank station the fuel would go to the customer's tank which would be large enough that he could buy in quantity—at a lower cost—and not be worrying that a cold snap would catch him without fuel. The plan also saved the cost of transporting the small tanks back and forth.

Green, a plumbing engineer, looked at the problem and solved it with his underground storage tank. Each step of the growth of the business has been planned with the sole desire to improve the product, its transportation and storage efficiency—and the cost.

Answers received to date from a poll sponsored by the Gas Appliance Manufacturers Association to determine preferences of the nation's leading chefs in cooking reveal that 12-1 vote for gas. All chefs polled are professionals with years of experience in cooking.

Comments of famed cooks from such famous restaurants as New York's Stork Club, Toots Shor's, the Longchamps chain, Chicago's Pump Room, Palmer House and Drake Hotel; New England's White Turkey; Hollywood's Brown Derby and Washington's Mayflower and Carlton Hotels confirm the claims of versatility and controllability on the behalf of the modern gas range.

One of the best known chefs gave as his reason for preferring gas is that it, "permits one to achieve the really fine nuances of cookery."

Another chef made the point that the gas range is more accurate and dependable for mass cooking. General agreement was expressed by top-flight cooks that gas ranges, "will take a round-the-clock beating that no other type of appliance could take."

This poll result is not surprising to the owners of the Western Gas Service right here in Edenton. They have long known that housewives—who do more cooking than professional chefs—prefer a gas range to any other type of appliance.

Western Gas Service has all types of gas ranges in its showroom on East Queen Street. There are large ranges for big meals and apartment size ranges with two to four burners.

The professional cooks like the gas range—and so do the housewives of Chowan County.

**USED IN SHIPYARDS**  
Gas flames cut metal in shipyards and iron works; gas provides the proper inert atmosphere in heat-treating furnaces so metal products will not oxidize and lose value.

## L - P Gas Hot Water Heater Saves Money

The automatic gas heater-fueled with Green's Fuel—is economical because:

1. It saves time, money and effort.
2. It costs less to install and to operate.
3. Because of the speed of the gas, a smaller heater will take care of the average customer's needs.
4. Heavy insulation protects the inner tank from outside air. Thus the heat is retained which results in economical operation.
5. Gallon-for-gallon, the new automatic gas water heater costs less to run. It is more long-lasting and more trouble free than any other automatic heater made.

Controlled hot water as provided by an automatic gas heater will save you money in other ways—in effort, in soap and in the longer life of clothes and greater health protection.

Cleanliness—the modern automatic gas water heater provides a constant and abundant supply of clear, sparkling, clean hot water. Green's Fuel is a clean fuel. It is smokeless, sootless and dirtless.

Convenience—The modern gas water heater is convenient. It eliminates water carrying and the irritation of too hot or too cold water so common to other types of water heaters.

You can inspect these modern hot water heaters at Green's Fuel, Western Gas Service, East Queen Street, Edenton.

**SAFETY FEATURES**  
For house heating—gas offers dependability of service, safety features, including safety pilot and temperature limiting controls, low overall cost for effortless heating service.

## Burner Important In Gas Operation

The first step in the actual utilization of LP-Gas is the operation of the gas burner. Aside from chemical uses, propane and butane are of value to mankind because when burned off they give a very useful and conventional form of heat.

To obtain that heat gas must be passed through a suitable burner which mixes gas and air in the proper ratio to insure the satisfactory combustion of the fuel.

Gas burning is not new. Perhaps some of the magic fires worshipped by the ancients could be accounted for by a natural gas well under a temple.

The first gas burners were used for lighting and the yellow flames caused by the unburned particles of carbon was the source of light.

An application of the luminous flame—a system whereby a number of small flames are located in such a position that the flames do not touch the surface being heated—is the modern range conversion burner. This unit is designed to be installed in the firebox of the range and converts it to 30,000 B. T. U. Since there is ample space between the burner and top covers there is no flame impingement and very satisfactory combustion results.

It was about 1855 that Robert Bunsen perfected a burner which produced a blue flame by an entirely new principle. By a very ingenious design, air was mixed with gas without the necessity of supplying it under pressure as had been done previously with the blow pipe.

The Bunsen type burner obtains the oxygen required for the blue flame combustion from the surrounding atmosphere and for this reason it is called an atmospheric burner. The word Bunsen is more commonly applied to a small laboratory burner with a single port, but a Bunsen type burner is one which works on the principle covered by Bunsen, regardless of its size, shape or application.

The orifice is the opening through which gas is admitted to the burner and it performs two distinct functions. First, it determines the flow rate of gas and secondly, it directs the gas

stream down the center of the mixing tube. The velocity of the gas stream is the force which causes inspiration of the primary air. If the gas stream is directed against the side of the mixing tube or if it meets an obstruction of any kind its velocity will be reduced and it may be impossible to supply sufficient primary air for satisfactory combustion.

## J. B. Green Invented "Mighty Flame"

(Continued From Page One)  
Green's fuel is a form of iso-butane which vaporizes at atmospheres lower than the surrounding environs and the vapors, piped to gas appliances and mixed with air, produce an intense heat in combustion without giving off offensive odors or poisonous gases.

At the time Green's Fuel was introduced, propane was being distributed in a limited way in bottles and was a satisfactory dry gas. But, because of the high pressure exerted was expensive to distribute.

**BUTANE REJECTED**  
Green considered butane then, and he considered it too hazardous and varying in its characteristics to be used unless an engineer is on the job.

Green came to the conclusion that hydrogen and carbon, which are abundant in the right mixture, would make an ideal fuel. Thus came about the formula and source for Green's Fuel, bringing as the next step the necessity for developing a suitable system for distribution.

After many experiments and exhaustive research, Green developed an underground tank and a method of transferring the liquid which had not been used before for moving similar liquids. Rigid tests proved his theory correct and he patented with the government as patent No. 1,968,141.

This underground system consists of a tank with two connections and necessary valves to connect up to a tank truck. One of the connections is made above the vapor lines in the two tanks and the other is made from the lower tank to the bottom of the truck tank.

Valves on the vapor line are open-

ed, permitting the intermingling of the vapor in the two tanks, thereby equaling the pressure in the two tanks. Next the liquid valves are opened and the liquid flows into the lower tank by gravity, vapor passing into the upper tank, replacing the space vacated by the liquid in the downward flow.

The liquid measuring gauge which registers in gallons is inserted into the tank and the liquid is measured and sold by the gallon.

Green's Fuel system are installed on the premises within 10 feet of the house. A Green's Fuel installation leaves no unsightly evidence of tanks, bottles, tubes or other obstructions that mar the beauty of the home or grounds. There is no more evidence of gas service than that from mains.

## Western Gas Service Grand Opening

(Continued From Section One)  
are: Fred Britton, J. B. Lee, Pruden Forehand and E. T. Phillips who look after the service end of the business; Caswell Edmondson, accountant, and Arthur Harrell, helper.

### SAFETY FEATURES

For house-heating Green's Fuel gas offers dependability of service, safety features, including safety pilot and temperature limiting controls, low over-all cost for effortless heating service.

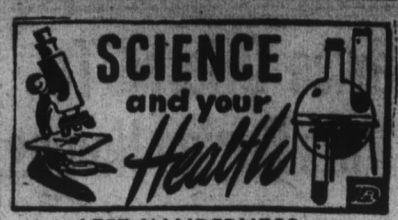
### USED IN PARK

The first application of LP-Gas in the numerous cooking and water heating operations in the concessions at Yellowstone National Park has been undertaken.

### GAS RELIABLE

Green's Fuel system, above and underground, holding from 50 to 500 gallons of gas and Underwriter's approved are built to the most rigid of specifications.

Men talk as if victory were something fortunate. Work is victory. Wherever work is done, victory is obtained. —Emerson.



### LEFT-HANDEDNESS by Science Features

The problem of a left-handed child in a right-handed world is one which has occupied psychologists—and parents—for a good many years. Should the child be forced to change? Should he be left alone?

Dr. Gertrude Hildreth, a university psychologist who has made an exhaustive study of left-handedness, believes that children are not born left-handed. At a fairly early age a child may show a preference for the right or left hand—but it is only a preference.

For this reason, Dr. Hildreth believes that it is important to begin training a child to use his right hand while he is in the crib-and-high-chair stage, before the preference becomes a deeply engrained habit, if you wish to train him at all. Here are a few ways this can be done:

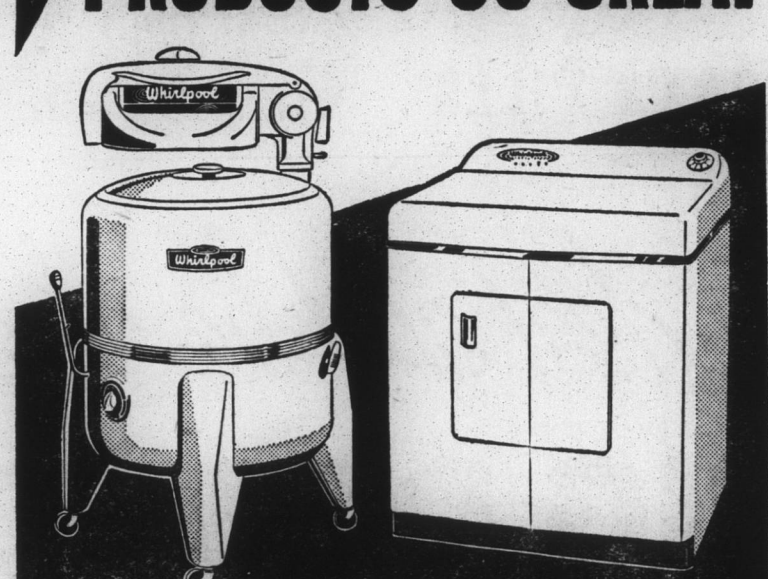
Always place toys or silverware near his right hand—but never take them out of his left hand, once he has them there. Hanging rattles and other toys on the right side of the crib or carriage may encourage the baby to use his right hand. A toy watch or bracelet on the right wrist may draw attention to the right hand.

However, if the child persists in using the left hand he should be allowed to do so. Constant criticism may make him feel he is "different" and can lead to personality problems such as stuttering when he starts school.

### Two Kinds

"I want to take out some insurance."  
"Fire or life?"  
"Both. I have a wooden leg."

FIRST TIME EVER—  
PRODUCTS SO GREAT



**Whirlpool**  
10 STAR SPECIAL WRINGER WASHER BEAUTIFUL NEW AUTOMATIC DRYER

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Sold On Convenient Terms

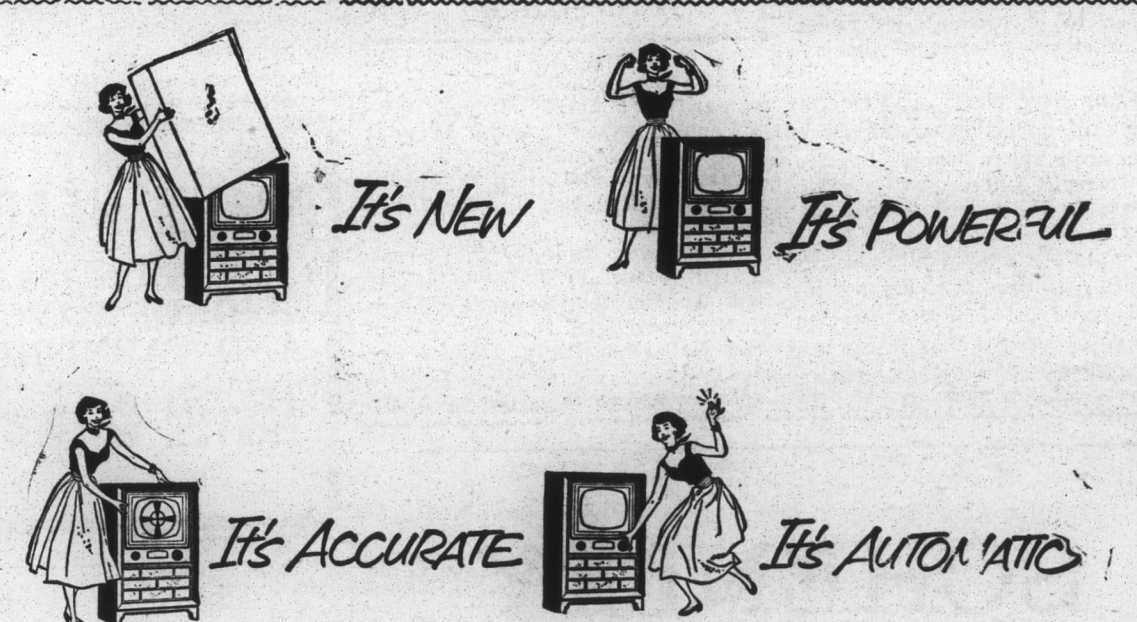
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- ★ Perfected SURGIFLOW ACTION
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- ★ Stop-Saving AUTOMATIC TIMER
- ★ Extra-Powerful MOTOR
- ★ Clog-Proof POWER DRAIN PUMP
- ★ Giant, 8-POSITION WRINGER
- ★ Fingertip WRINGER RELEASE
- ★ Self-Reversing DRUMBOARD
- ★ Rock-Rigid CONSTRUCTION
- ★ Attractive LOW-SKIRT DESIGN

Exclusive THERMAFLOW ACTION creates the fastest, drying-est breeze ever known!  
Protective TEMPERED HEAT "babies" your clothes. They dry soft, fluffy, wrinkle-free.  
Gentle SATIN-SMOOTH DRUM tumbles the biggest laundry load with a care.  
Effective FORCE-FLO VENTING eliminates lint, moisture.  
Cabinet BEAUTY OF DESIGN, with lasting Life-Coat Finish.

We've just received a shipment of these Wonderful Whirlpool values! See them here now! Get YOUR Washday Bargain of Bargains while they last!

**Western Gas Service**  
DISTRIBUTOR OF GREEN'S FUEL GAS  
PHONE 458 EDENTON



IT'S HERE NOW!  
**RCA VICTOR Television with**

**Rotomatic Tuning**  
CLICK—there's your station



17-inch Crisp, Compact contemporary table model is finished in sleek ebony. Model 175349.

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- More detail—amazing depth and clarity.
  - Interference is screened out, power stepped up—automatically.
  - The picture is vivid, accurate, over the entire surface of the screen.
- LESS TO DO**
- Less dialing—its automatic Turn one knob—CLICK—there's your station!
  - Less adjusting—the exclusive "Magic Monitor" circuit system automatically brings in and holds the finest picture.
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