

Nature's Wonder Fuel Gas Energy Source

Alberta Natural gas transported across half a continent via the Trans-Canada pipe line has arrived here and is ready to provide local homeowners with new benefits in comfort, cleanliness and economy. Distributed here by Northern Ontario Natural Gas Company Limited, the new fuel is supplied to homes, stores, mills and factories to perform dozens of jobs, at lower cost than ever before.

Natural gas, nature's wonder fuel, was formed by the decay of animal and plant life millions of years ago and trapped beneath the earth's surface. Now this priceless energy source is being released in quantity, and piped underground to the growing markets of Northern and Eastern Canada.

It is lighter than air, and dissipates rapidly into the atmosphere unless trapped. It is naturally odorless, but an odorant is added by gas companies, so that leaks may be detected. It is the most efficient of all fuels; on a cost basis, less is required to do the same heating job. It is non-toxic, and according to National Fire Protective Associations statistics, safer by far than other home fuels.

In the home, natural gas heats water faster, offers better control in cooking, keeps rooms constantly cosy. It can be used in appliances for refrigeration, air-conditioning, clothes drying and gas disposal—and all at substantial savings to the user. There is no dirt or smoke, and no storage problems. Just a weatherproof unit which safely and silently supplies your home with the most dependable, convenient, efficient and economical fuel known to man.

In industry, gas has hundreds of uses, both as a raw material and as a heat source for various industrial processes. It's used in the manufacturing of everything from woodpulp to TV tubes, and new uses are constantly being discovered. Availability of natural gas will help spark continued industrial growth in the area, to maintain the prosperity of everyone.

Northern Ontario Gas Company receives Alberta natural gas from take-off points on the Trans-Canada pipeline, and distributes it to homes, stores and factories.

Rates for industrial, commercial and residential consumers are among the lowest in Ontario.

Heat Your Attic

For that unheated room in the attic, consider the thrift advantages of a modern gas space unit. You'll have adequate heat at any time, without overloading or extending your present heating system. The new models feature modulating snap controls especially designed for attractiveness and if space is your problem, these room heaters can be installed in recessed corners, on floors or on ceilings.

Schiphol Airport, near Amsterdam, Holland, is one of Europe's most modern centres for air travelers. This port, home of KLM Royal Dutch Airlines, is situated about 12 feet below sea level.

Pipeliners' Jargon A New Language

What have pigs, rats and children's toys to do with laying gas mains under streets in the Temiskaming area?

Plenty, according to Northern Ontario Natural Gas Company Limited engineers, who are now staging final tests in the completed distribution system in Cochrane.

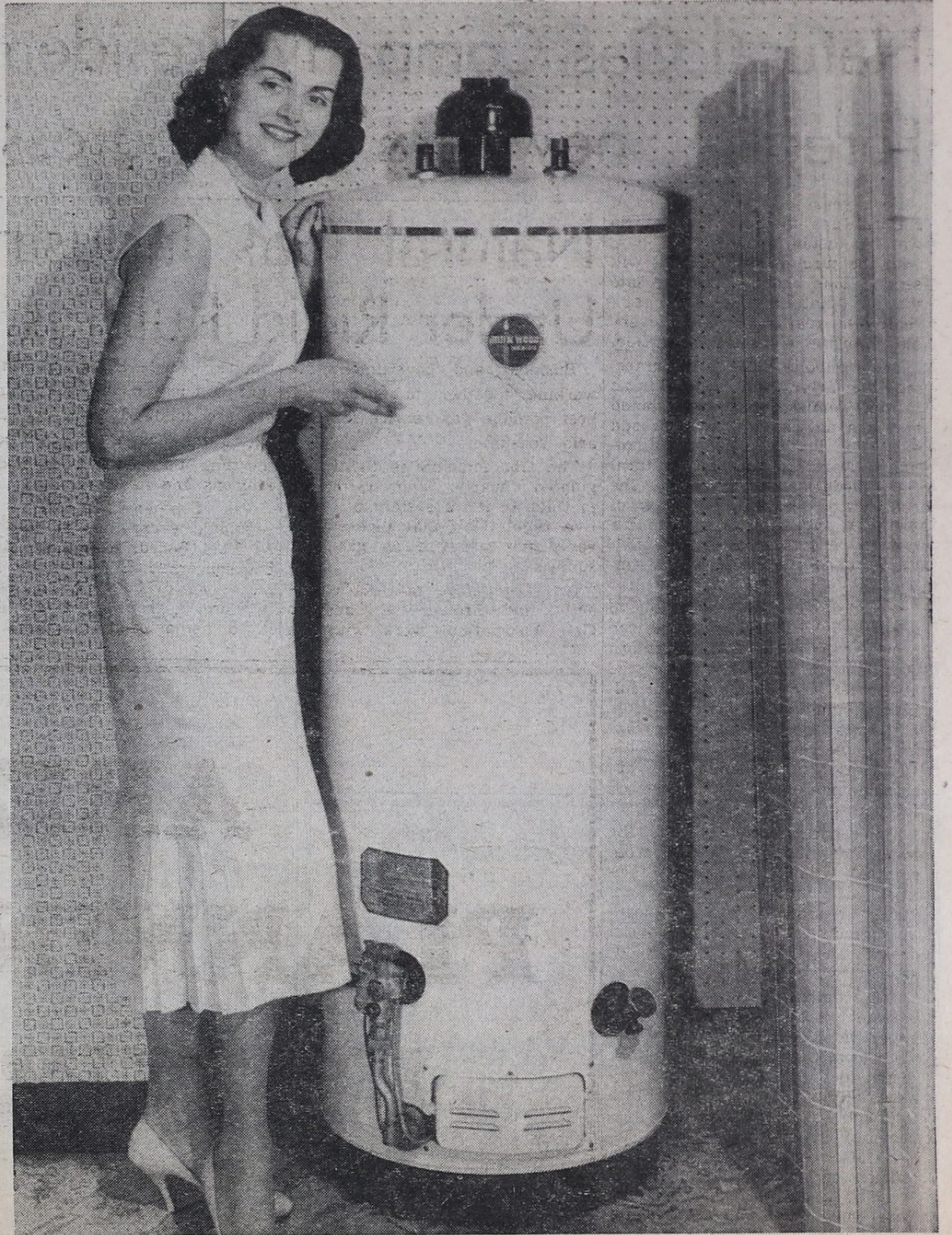
"Pigs" is pipeliners' jargon for the spherical brush that is used to clean the inside surface of the pipe before the system is ready to go into operation.

The brush, almost the same diameter as the pipe, is forced in an open end of the pipe; then compressed air is pumped in behind it, driving the "pig" through the length of the pipe. The "pig" travels faster than a man can walk, and chips away rust and scale from the inside of the pipe as it goes.

A surprising assortment of trash—everything from toys, to waste paper to small animals, often finds its way inside the pipe during construction. All of it has to be removed before gas delivery can begin.

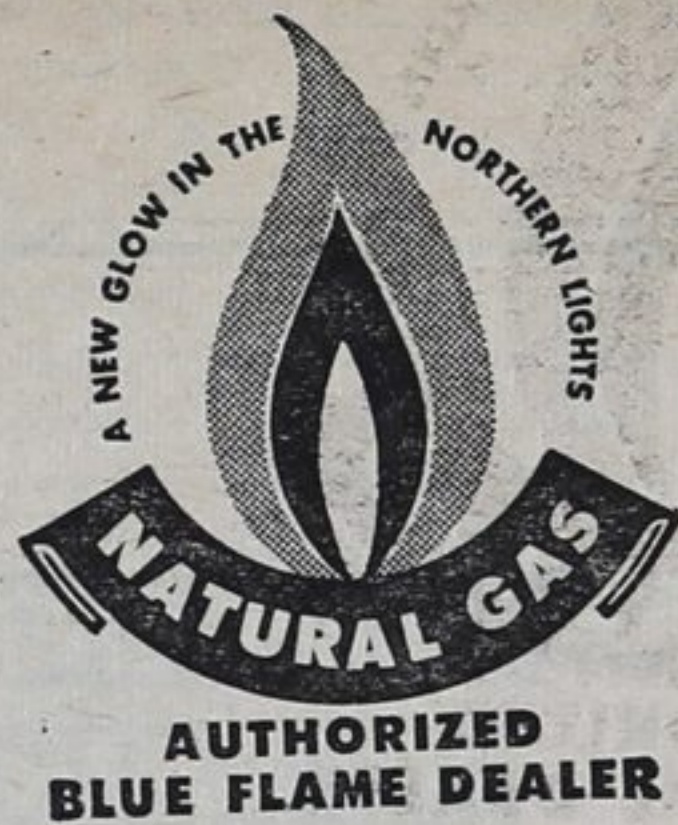
The "pigging" operation has loosened rust and scale inside the pipe; now a special "purging" technique is used to get it outside. A section of pipe is closed off at one end, and air is pumped in at high pressure.

Then a valve is opened at the other end of the section, and the air blows out in a cloud. Blown out with it however, is all the foreign matter—scale, rust, rats, toys and all.



1958's Mrs. America, Mrs. Linwood Findley of Washington, D. C., is seen with a new gas hot water heater. (Photo Courtesy Washington Gas Light Co.)

Finally, the pipe is tested by pumping air in at high pressure, and leaving it there for a number of hours. If any drop in pressure is detected on the sensitive meters in the operations' headquarters, the leak is quickly detected and repaired. After the pigging, purging and testing operations have been completed, the distribution system is ready to go into operation, to bring natural gas to local homes and industries. Sometimes, a strong smelling ingredient is added to the air, so potential leaks may be detected by the smell.



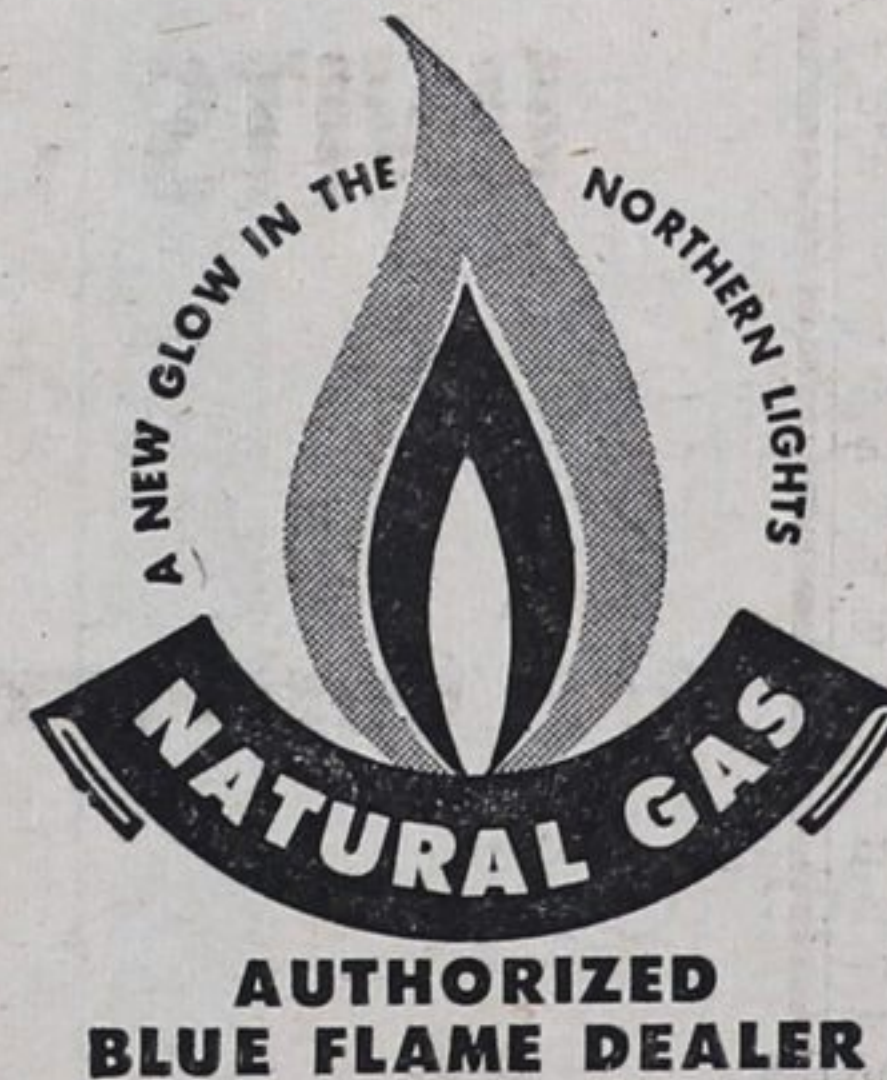
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