

GAS NOW BEING USED HERE MADE FROM LOCAL COAL

Tuesday marked the first time that gas, made by the back run process of water gas manufacture, was turned into the storage holders and mains of the Southern Oregon Gas company according to an announcement today by T. D. Patch, president and general manager of that company.

For the past four months, Mr. Patch relates, his company has been engaged in the construction of a new plant, which has been erected at a cost of nearly \$50,000 to serve the cities of Medford and Ashland. This plant is of the finest construction in every particular and will be, the officials declare, capable of meeting the growing demand for gas service in the communities named.

The back run process used is a patented one by which it is possible to produce a very excellent quality of carburetted water gas using native sub-bituminous coals as a generator fuel. The process was invented about five years ago by D. J. Young of Tacoma, Washington, and there are now in use throughout the United States upwards of one hundred and fifty back run installations. Its successful operation has been positively demonstrated since 1921, it is claimed and the Mountain States Power company of Eugene, Oregon, has employed it in the manufacture of gas for that city since 1922.

N. E. Bohall, who is general superintendent for the Southern Oregon Gas company operating properties in Medford, Ashland, Grants Pass and Roseburg, relates that heretofore the method of manufacture in Medford has been by the oil-gas method.

There are three methods of manufacture in common use at the present time, i. e., coal gas, oil gas and carburetted water gas. To this last named method has been added the art of back run manufacture which has greatly improved the quality of the resulting gases.

In the local plant Roxy Anne coal will be used exclusively. It is being mined by the company especially for this use as it has been found to be highly adaptable to the manufacture of the gas. Mr. Bohall says that the development of the Roxy Anne coal mines of the company is in line with its stated policy to assist as far as possible, in the material upbuilding of the communities in which it operates.

The company, through its general manager, invites the public to the new plant, about three miles south of the city, on any day it is in operation between the hours of 8 and 5, holidays included. There may be seen the latest known methods in the art of gas manufacture.

In the first unit of the gas process, the generator, the coal is burnt at about 230 degrees Fahrenheit. After the fuel bed has been blasted to incandescence, steam is driven through, taking the coal gas resulting into the second unit known as the carburetor. This unit is lined with checker brick which are heated to about 1400 degrees by the heat leaving the generator during blast periods. Diesel oil is sprayed over these hot bricks in such a manner as to thoroughly "crack" the oil, and the gas so produced from the oil mixed with the generator gas enriching its quality to the proper thermal value.

The next and last unit in the set is the superheater. The gas made in the generator, together with the gas resulting from the burning of the oil is forced through the superheater, which has been previously heated to about 1200 degrees. Herein the gases driven from the generator and carburetor become thoroughly mixed and "fixed" so as to retain all possible heating qualities. From the superheater a large pipe carrying the product of the three units mentioned, leads to two large cylindrical tanks known as the "scrubbers," where it is purified by a water spray which eliminates all tar and particles of carbon. The relief holder or storage tank, capable of receiving 20,000 cubic feet of gas, receives the product from the two scrubbers and stores it until transferred thru a purifying material composed of wood shavings and iron oxide, to remove all sulphur from the gas. Up to the time that the gas enters the scrubbers it has the appearance of a heavy yellow or brown smoke, but after having passed through the "purifiers" it is absolutely colorless. It is now forced into a large storage holder or tank capable of containing 50,000 cubic feet. From the storage holder it is drawn into several smaller tanks where by means of compressors it is delivered under high pressure into the gas mains and service pipe lines of the company ready for consumption by the gas-using public.

The process of the actual manufacture of the gas through the generator, carburetor and superheater, from which the process receives its name, in reversing the process the steam which heretofore had been forced into the generator is now forced into the superheater, then into the carburetor, where it becomes superheated and gathers to itself all bits of carbon on the checker bricks in these two units, but no oil gas, as during this reversal in operation no oil is burned. It then passes through the high temperature fuel bed in the generator, thus making blue gas, which finds exit by other pipe connections the scrubbers where it undergoes the same processes already described.

The backrun is also used to equalize and regulate the heat within the set when it is too hot, and it is used generally after every fifth or sixth cycle of the regular operating process.

The plant is capable of producing gas sufficient in quantity to supply a city several times the size of Medford. This is a point which the company officials regard as being very essential to the increased demands for their product.

The operating values of the set are controlled by manually operated hydraulic guns, adding considerable to the efficient operation of the equipment. The temperatures of the machines are recorded by an automatic pyrometer of the latest design. This pyrometer is one of the important parts of the control board which includes many gauges indicating the pressures of gas and steam. In a short time a new calorimeter will be installed to ascertain the British thermal heat units of the gas, explained as being a measure of heat as inches are a measure of length. During actual operation this calorimeter will be referred to several times daily in order to maintain an unvarying quality.

Eventually the oil-gas plant, which has been in use since 1919 will be rebuilt to make gas by the carburetted water-gas method, but this will probably be postponed for the present. However, the company will make installation within the next few weeks of additional high pressure storage equipment at Ashland, consisting of a cylindrical steel tank 4 feet in diameter and 40 feet in length, which will provide for improved service there and meet the increasing demands from new consumers.

The company is also planning to introduce the new process into its plants at Roseburg and Grants Pass in the near future, believing it is the only process by which the cost of production can be reduced to an extent whereby consumers may later benefit through lower rates for service.

J. G. Bouras of the Tacoma Gas and Fuel company, from which company the equipment was purchased by the local company, has been at the plant for the past week in a consulting capacity until the operators here become familiar with the new operation.

GRADE STANDARDS FOR FRUIT SET

The grade standards as drawn up by the Oregon State Board of Horticulture with specifications for the requirements of Extra Fancy, Fancy, and other grades of pears and apples have been printed in pamphlet form. These are the official grades for the present season and under the law all fruit marked Extra Fancy, Fancy, or C Grade must conform to these standards. A sufficient supply is on hand to furnish all those who request copies. These may be obtained at the offices of the different packing houses the office of the county agent, or by applying to Fletcher T. Fish in charge of the Federal-State Inspection Service at Medford.

The grades for both apples and pears are practically the same as those in effect last year except that in the Fancy grade for pears the badly misshapen or seriously damaged fruit has been eliminated.

Pathe News Shows Views Evolution Trial

Evolution is the chief feature of the Pathe News reel, at the Graterian, until Saturday night William Jennings Bryan, chief defender of the fundamentalist view, is shown at Coconut Grove, Florida, issuing a statement on the Tennessee monkey law. Pictures are also shown of the defendant, Scopes, and his chief counsel, Clarence Darrow. The scientific view of the question is shown in a series of pictures of fossils, tracing the supposed "link of life" from fish to man. Views are also shown of the Pickwick club, Boston, Mass., after its collapse, Fourth of July eve, and the first reconstruction work in quake-racked Santa Barbara, Calif.

Cook with gas.



Zest for outdoor sports is imparted by...

Caswell's NATIONAL CREST Coffee delicious and invigorating ORDER BY TELEPHONE 1077 1500,000 cups were served at the PANAMA-PACIFIC International Exposition

This Is Why Everybody Is Buying Electric Ranges

NOW!

\$15 DOWN Completely Installed

Of course everybody is buying electric ranges now! Why not — when a genuine HOTPOINT-HUGHES can be bought for as little as \$15 down, all wired, installed in your home and ready to cook!

And the balance to pay each month even less—\$12.00 a month for 12 months.

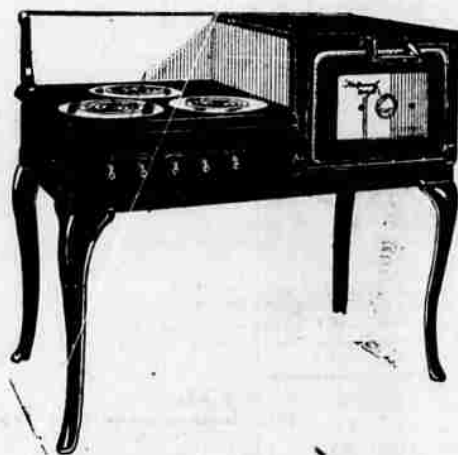
Until August 15th ONLY!

Such a special event as this required many special preparations — and the combined merchandising resources of these three big Medford institutions were called into play to purchase this immense stock of electric ranges at the lowest price; to arrange for time payments for the convenience of purchasers; and to install the ranges and special wiring, without extra charge.

Naturally, it will be impossible to repeat this amazing offer—at least for a long, long time. If you are even considering the purchase of an electric range SOMETIME — then buy it NOW!

Many purchasers, of course, are not taking advantage of the time payments offered; others are considering the \$15 down payment merely as a convenient deposit enabling them to take advantage of this special opportunity.

Whichever way you wish to purchase, the important thing is to secure your electric range before this offer expires, on August 15th. Don't risk waiting until later—you may be one of the disappointed ones. See these ranges tomorrow — bright and early—and perhaps yours can be installed in time for dinner!



Hotpoint

PAUL'S ELECTRIC STORE

Telephone 90

Special Terms on Other Makes and Models of Ranges

PEOPLE'S ELECTRIC STORE

Telephone 12

Special Terms on Other Makes and Models of Ranges

THE CALIFORNIA OREGON POWER COMPANY

Telephone 168

GAS HEAT GAS HEAT GAS

Watch This Space

For the Story of the Romance of

ROXY ANN

Southern Oregon Gas Co.

"Dependable Fuel"

HEAT GAS HEAT GAS HEAT

DRINK

Maid O'Sko

IT'S DELICIOUS

Never before could you buy so much fruit in a small bottle.

SKO is made from Real Oranges and there are no synthetic flavors added.

Close your eyes and you can easily imagine you are "drinking" the fruit itself.

All our products are guaranteed to be pure and wholesome, which is your protection.

Jackson County Creamery

DYERS HATTERS CLEANERS FLEETERS

Phone 244 23 N. Fir St.

O.B. WILLIAMS CO. Sash & Doors

—kitchen cabinets—

MADE TO FIT exactly in the place you want them. You are not required to use stock size that doesn't quite fit.

O. B. WILLIAMS Kitchen Cabinets are made of selected high grade fir smoothly finished ready for paint. They save steps and labor and make the kitchen attractive and neat.

Send us the space you want to fit your cabinets in and we will quote you prices. We sell direct from our factory at lowest prices consistent with good quality.

O.B. WILLIAMS CO.

Sash and Doors

1980 1st Ave. So., Seattle, Wa.

Sun Classified Ads get results.

CASH PAID

For Second-Hand Furniture and Stoves

W. A. KINNEY

Furniture House

315 E. Main Phone 505

PILES

Not Temporary Relief—But CURE

PILES of other Rectal or Colon ailments should not be experimented with. They should and can be permanently CURED by my non-surgical method.

Send today for my FREE BOOK containing scores of voluntary testimonial from patients, some of whom had suffered 20 years and had tried every kind of drug and treatment. Read it and you will better understand why I can give a Written Guarantee to CURE your Piles or refund your fee.

CHARLES DEAN, M.D. INC. PORTLAND, OREGON; SEATTLE OFFICE: 230 1/2 B. BULLING ST. SEATTLE, WASH.