

# You Get What You Give

WHEN a business fails the financial statement reflects the conditions at that time, but the real reason for failure is seldom shown. In many cases the true reason is that the business performed no service which was necessary or useful to society generally.

Every individual must give a useful service if he is to prosper, for society will refuse to maintain him if he fails to be useful to society.

When we find a business which has been notably prosperous over a long period of years, we may be sure that it has won its position by performing a service useful and necessary.

That, in a word, explains the continued, ever-increasing success of the Standard Oil Company (Indiana.)

This Company is included in the list of big business because the ideals of service which it holds and maintains are big.

The Standard Oil Company (Indiana) is big because it recognizes the necessity of developing its sphere of usefulness to the highest degree and of maintaining this high standard in spite of every obstacle.

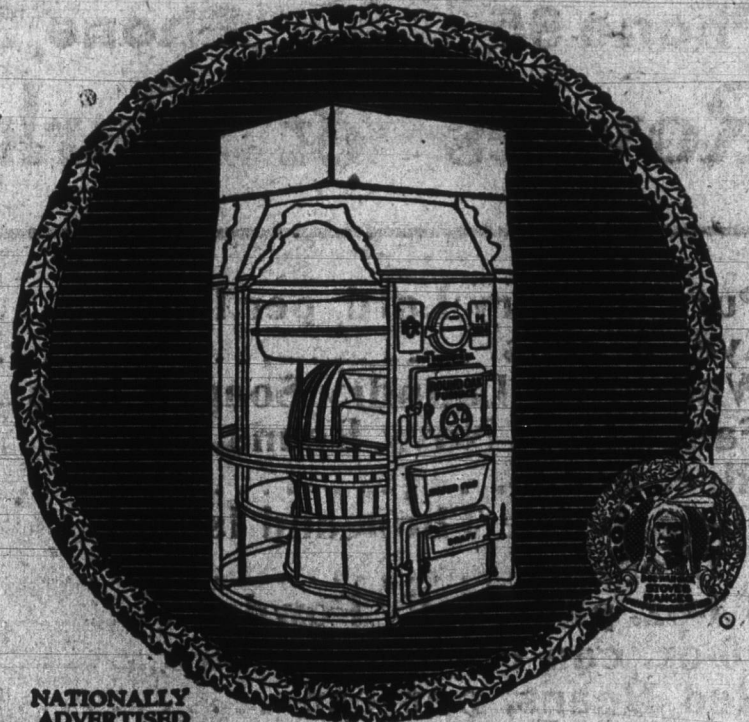
The success of the Standard Oil Company (Indiana) proves that it is performing a useful service and that every link in its chain of achievements is delivering an added benefit to civilization and to you.

Service is the first consideration of this organization, for it knows that by increasing its service to the public its earnings will automatically grow, and all will profit by its activities.

**Standard Oil Company**  
(Indiana)

910 So. Michigan Ave., Chicago

1935



NATIONALLY ADVERTISED

## It Will Cost You More Next Fall

You will save money by arranging for your Round Oak Pipeless Furnace at once. You also will insure getting it, whereas by fall we expect that the supply will be exhausted, owing to the demand caused by the building boom.

This is the furnace that is bolted gas tight, that warms all rooms from one register (for a generation) and never leaks gas, dust or smoke.

# ROUND OAK

## PIPELESS FURNACE

Burns any fuel. Built to last. Weighs more—worth more. The Round Oak folks make good goods only. Every user is a booster.

**E. D. RHOADES & SON**

## LIGHT AND POWER SITUATION

ENGINEER CHAMBERLAIN SUBMITS CAREFULLY PREPARED REPORT.

The Republican undertakes the publishing of the report or Engineer Charles Chamberlain to the city council of Rensselaer relative to the needs of the city in added facilities in the way of electric current. The report is of considerable length and will appear in installments. It will be of vital interest to every citizen and taxpayer of this city.

(Continued From Yesterday.)  
**Electric Current and Power Plant on the Farm.**

Electricity for power and light is being asked for by many farmers. This service is being rendered by our present equipment in a small way.

Some other electric utilities have this service connected to their lines under separate plans.

The most popular one over the state where farm plants are connected with municipal ones seems to be: for the farmers to organize and erect and maintain their lines in the country, metering each farmer service.

The city, to erect and maintain its lines to the appropriation limits, installing a meter at this point, and selling its current to the farmers at a wholesale rate at this point of connection to the farmers' lines.

**Engine and Boiler Tests.**

The tests on our engines and boilers in our present plant were conducted for 24 hours during December 17, 18 and 19, showing the following results under our varying loads which reduces the efficiency of this or any other central station.

Our Corliss engines are non-condensing, operating on a steam pressure of 90 to 100 pounds. Carrying a varying load of 80 to 284 kilowatts. Test showed steam consumption to be 48 pounds of steam per kilowatt-hour for engine and auxiliaries. This showing is as good as could be expected of this type of engine under our varying load conditions.

**Boiler Test.**  
Our boiler test shows under varying loads for 24 hours' duration, operating on 90 to 100 pounds pressure, evaporating feed water from 210 to 212 degrees Fahrenheit to steam under a pressure of 90 to 100 pounds.

The amount of water evaporated is six pounds of water to one pound of Indiana screened egg coal, costing \$4.62 in the plant bins. This means each kilowatt-hour costs us on the switchboard 1.45 cents. This is too much and is caused by the high price of coal and engines not efficient as condensing steam turbines and not enough water evaporated in boilers for the amount of coal used. This can be remedied some in the present plant by adding more draft to furnaces, either natural or mechanical. Also by installing modern grates in furnaces.

The efficiency of our tubular boilers or any other tubular boiler can not reach the efficiency of the modern water tube boiler for the varying loads that occur in central stations for the following reasons:

1st. Steam pressure limited by thickness of the boiler shell was required. If a tubular boiler was designed to operate at 200 pounds steam pressure, it would require a boiler shell about one-half inch thick.

2nd. Thickness of boiler shell over thin tubes retard the heat units from being absorbed by the water in the boiler shell.

3rd. Water circulation is not as good in tubular boilers, causing low steaming qualities. This is objectionable in a central station with varying loads and overloads continuously.

4th. With tubular boilers at 100 or 150 pounds steam pressure which is the limit and is in constant danger of being reduced by the boiler insurance companies. Steam at the above pressure is not as dry as steam at 200 or 210 pounds pressure, which is obtained and maintained by water tube boilers.

Two hundred pounds boiler pressure with 100 to 150 degrees of superheated steam is economical and is common boiler practice at this time. This reduces the latent heat losses as much as possible. A modern steam turbine plant if properly located, designed and installed should produce the following conservative economies over the present steam plant with same load conditions and number of day operated.

A condensing steam turbine plant running self with a condenser operating a 28-inch vacuum and on steam 200 to 210 pounds boiler

pressure should show the following results in connection with water tube boilers equipped with stokers and modern chain grates.

One 500 pound kilowatt steam turbine in plant in the reserve for emergencies. One 500 kilowatt steam turbine operating on the varying loads as given above would show the following steam economies of 20.3 pounds of steam per kilowatt hour and 12 pounds of steam per kilowatt hour for boiler feed pumps and auxiliaries, making a total of 32.5 pounds of steam per kilowatt hour. Water tube boilers should at least evaporate 7 or 8 pounds of water per one pound of slack coal consumed in the proper furnace. Figuring it at the low evaporation of seven pounds of water per one pound of slack coal at present prices of \$13.57 coal in bins without drayage, we should generate and place current on the switchboard for 4.5 of one cent per kilowatt hour.

This means a saving of one cent per kilowatt hour over our present plant, figuring both plants at the test load conditions.

The saving by installing modern machinery will amount to over seven or eight thousand dollars for the year if same test loads are maintained for the year.

Assuming that the test load which would amount to 870,480 kilowatt hours for the year should fall off to the 1919 year load which consumed \$14,208 worth of coal we still would show a saving of \$6,986 after generating the test load at 4.5 of a cent per kilowatt hour by the turbine plant.

The efficiency of the new machinery will increase as it becomes loaded to its full capacity, and reducing the coal consumption per kilowatt hour.

The capacity of the new machines should be as large as good engineering practice will permit for present and anticipated loads. If a new station is decided upon the building and smoke stack should be large enough for additional generating units for future use.

(To Be Continued.)

## FRANCE READY FOR TOURISTS.

The problem of receiving the thousands of automobile tourists that are expected to go to Paris from America next summer has already been tackled by the authorities of that country. Instructions have been sent out to the prefects of the department of France that proper facilities may be accorded the visiting motorist.

The instructions provide that American tourists will not be compelled to have their cars inspected by the Service des Mines, if such cars already have a circulation permit issued in the United States and are duly registered in that country. Tourists also will not have to pass a driver's examination if they have an American driver's license. Two cards will be issued to each tourist presenting his car—a gray card covering the registration of the automobile and a pink card for the driver.

To take advantage of this concession, the tourist must present the American receipt for the declaration of the car and the American driver's permit. In the absence of these certified copies will be accepted. Two unmounted photographs of the driver must be attached to the pink card. On landing, a receipt for \$20.20 francs (\$3.91 at normal exchange) will be paid to the collector of direct taxation.

## AUXILIARY AMERICAN LEGION.

Mrs. Ora T. Ross and Mrs. Chas. G. Spittler will be hostesses to the members of the auxiliary of the American Legion at the home of Mrs. Ross, Saturday, March 13, at 2:30 o'clock.

All members are cordially invited to come. The following musical program has been arranged for:  
Piano Solo—Linnie Bird Raines  
Vocal Trio—Mrs. Dunlap, Mrs. Rex Warner, Miss Daugherty  
Piano Solo—Helen Warner  
Voice Numbers—Mrs. Edson Murray, Miss Wallace, Mrs. Kenneth Altman  
Piano Solo—Mrs. W. I. Spittler

## NOTICE.

All the suits contesting the will of the late Benjamin J. Gifford, are now disposed of and I am in a position to sell land. I have yet unsold several hundred acres of good land located in Jasper and Lake counties, which I will sell as executor on reasonable terms, but cannot take any trade.

Call at my office or at the office of T. M. Callahan, at Rensselaer, Indiana, for particulars.

GEO. H. GIFFORD,  
Executor.

## NOTICE.

Miss Elizabeth Regan will conduct the Health Culture club class in the woman's waiting room at the Court House, Friday evening, March 12, at 7:30 o'clock and the young people's class at the same place at the usual time Saturday morning.

## NOTICE TO OUR CUSTOMERS

who have been waiting on our Austrian patterns of China.

We are now getting the Viola White and Gold and the Packard small Pink Floral Border patterns.

See our Ladies' and Misses' Millinery lines at

**\$1.50 to \$5.50.**

Ladies Coverall Aprons at **\$1.50 and \$1.85**

All sizes and colors R. M. C. Crochet Cotton now in stock. Price per ball

**15c**

**Free Wed., Mar. 17**  
1 Shamrock to each person entering this store.

**Burchards**  
510 AND VARIETY STORE

## COMING

Ellis

## Opera House

For Two Performances only,  
Saturday Afternoon and Evening.

**March 13th**

Chic Jackson's Fanny  
Cartoon Musical Comedy

**"ROGER BEAN, R. G."**

With a cast of Seventeen people including GOLDIE Special bargain Matinee at 2:30 p. m. Adults 50c, tax 5c; total 55c. Children 25c, tax 3c; Total 28c. Choice of 400 seats.

**Pretty Girls  
Catchy Songs**

Evening at 8:15 P. M.  
Main floor, 75c; tax 8c; Total 83c. Balcony and Loge, 50c; tax 5c; Total 55c. Gallery, 35c; tax 4c; Total 39c.

Seats reserved at Long's Drug Store.  
Phone 53.  
Ellis Phone 41.

## EAT FISH and Oysters ON FRIDAY

We Have A Fine Supply of **FRESH FISH** and Oysters

Only the Highest Quality of Fish

**Co-Operative Meat Market**  
Phone 92

## O'Riley's Golden Loaf

Clean Wholesome

and

Appetizing Bread

Order of Your Grocer

or

Phone 616  
Quality Baker

## "A SHINE IN EVERY DROP"

Black Silk Stove Polish is different. It does not dry out and leave a sticky film. It is the best stove polish you ever used—your dealer will tell you.

## Black Silk Stove Polish

is not only most economical, but it gives a brilliant, silky lustre that cannot be obtained with any other polish. Black Silk Stove Polish does not rub off—it lasts four times as long as ordinary polish—so it saves you time, work and money.

Don't forget—when you next clean your stove, try Black Silk Stove Polish. It'll save you time, work and money.

Black Silk Stove Polish. Write: Sterling, Illinois. Black Silk Stove Polish is sold in all drug stores, hardware stores, and everywhere. It works like magic. It's the best stove polish you ever used. It's the best stove polish you ever used. It's the best stove polish you ever used.

Get a Can TODAY

## Pay When Cured

Dr. Burkhardt wants you to write him today for a treatment of Dr. Burkhardt's Vegetable Compound for Liver, Kidney, Stomach, Trouble, Constipation, Catarrh, Rheumatism, Gout, when cured. Don't miss this grandest of remedies and wonderful preventative for Grip Flu. Address 521 Main St., Cin. 4, O. For sale at all Drug Stores. 20-day treatment 25c—Adv.



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Holden's Greenhouse

## CITY BUS LINE

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FOR TRAINS AND CITY SERVICE

**MILLER & SONS**

Phone 107 and 178.

## WISDOM

HOW WOULDN'T THIS BUMP YOU? JUST GET THIS



## HEADS UP!

## MORAL

IT'S EASIER TO PREACH THAN TO PRACTICE