

### ARTESIAN WELLS SOMETIMES LEAKY

#### HOW THIS IS REMEDIED

#### Geological Survey Explains Interesting Features About Such Matters; Pressure Often Heavy

An artesian well is one which taps a rock formation that contains water under so much hydrostatic pressure that the water is forced up in the well above the normal ground-water table. In certain areas, called areas of artesian flow, the pressure is sufficient to raise the water above the surface and thus to produce flowing artesian wells. In some of the first wells drilled in the Dakota artesian basin the pressure of the water at the top of the wells was more than 150 pounds to the square inch, and the well at Woonsocket, S. Dak., was reported to have a pressure of 250 pounds to the square inch—about six times the pressure that is obtained from a standpipe a hundred feet high.

Tremendous Pressure—Some artesian wells deliver immense quantities of water by natural pressure. For example, the Tinderry bore, in Australia, at first flowed 2,520 gallons a minute; a well near San Bernardino, Calif., flowed 3,730 gallons; a well at Chamberlain, S. Dak., flowed 4,350 gallons; and a well near Boswell, N. Mex., flowed 5,710 gallons. The flow of the well near Roswell amounted, in other terms, to about 13 cubic feet a second, or 8 million gallons a day.

For many years it has been surmised that large quantities of artesian water are lost by leaking underground through holes in the corroded casings of the artesian wells. Recently the Geological Survey, United States Department of the Interior, has developed a practical method of locating these leaks and measuring the quantities of water that are wasted through them. Hence, an individual well owner or a community that depends for its water supply upon artesian wells can now obtain definite information as to whether the wells leak, and, if so, how much and at what depth.

**Simple in Principle**  
The method is very simple in principle. A current meter that was specially constructed for the purpose by Carl H. Au, of the Geological Survey, is let down into the well, where it records the velocity of the water at any depth desired. With the velocity and the diameter of the well known, the rate of flow at any point can be determined. Hence a series of measurements taken at successive levels from the bottom to the top of the well will show just where the water enters and in what amounts, where it leaks out and in what amounts, and how much is delivered at the surface. For certain investigations it may be necessary to devise apparatus for measuring the diameter of a well at any depth, but thus far no serious difficulties have arisen on account of uncertainty as to the diameter.

**Successfully Used**  
This method has now been successfully used in the artesian area of Honolulu, and in the Roswell artesian basin, in the Poens Valley of New Mexico. In Honolulu the artesian water is especially valuable, because it forms the principle supply for the city. In 19 defective wells in Honolulu a total underground leakage of 7,750,000 gallons a day was found, which is equal to about one-third of the total quantity of artesian water consumed from the public water-works.

One of the wells was found to waste 750,000 gallons a day by underground leakage. A somewhat expensive program of recasing or plugging all leaky artesian wells has been undertaken, and the value of the work already completed is indicated by the fact that leakage amounting to 5,900,000 gallons a day has been effectively stopped. The experience on this project has shown that recasing and plugging leaky wells are difficult and expensive operations, which require the services of a skillful driller with adequate equipment, working under the instructions of a competent hydraulic engineer.

The methods used in these investigations are described in reports by John McCombs and A. G. Fiedler, which have been published by the Geological Survey as Water-Supply Paper 596-A.

#### NAMES IN HENRY'S HALL OF FAME TOLD

Over the portals of Henry Ford's engineering laboratory in Detroit, the Woman's Home Companion has discovered the names of 21 men, selected by Mr. Ford as candidates for a Detroit Hall of Fame. They may not be the 21 men who have most influenced the world, but they are the ones who, in his opinion, have most influenced Detroit. Here is the list: Darwin, Ampere, Da Vinci, Franklin, Fulton, Whitney, Bell, Marconi, Wright, Burbank, Edison, Burroughs, Kirby, Diesel, Faraday, Curie, Otto, Newton, Dunlop, Pasteur, Galileo.

#### SOLVING LABOR PROBLEMS

Some day, perhaps, all employers will stop thinking of "workmen" and think instead of "men who work." There's a big difference.—American Magazine.

Many students decide that education is not valuable after they fail to pass.

#### APPRECIATES VALUE PRESS ADVERTISING

The following unsolicited letter of appreciation is acknowledged by the Press with gratification and due thanks to the writer, Mr. J. L. Crane, 26-28 North First street, Highland Park, Ill.:

Highland Park Press  
Highland Park, Ill.  
Dear Mr. Udell:

In the May 12th issue of the Highland Park Press, we ran an advertisement with a coupon attached, as a check on results. And I wish to state that the results were more than gratifying. Although I understand people do not as a rule react to coupon advertising, they certainly did in this instance, which is a strong indication that the Highland Park Press is thoroughly read and has a strong pulling power. As a Highland Park business man, I wish to express my appreciation of what you are doing to help build up the community. It means dollars and cents to all of us—and will go a long way towards the development of a bigger and better Highland Park.

Very truly yours,  
J. L. Crane.

#### ADJUDICATION NOTICE

**PUBLIC NOTICE** is hereby given that the Subscriber Executor of the Last Will and Testament of Edward M. Gallup, deceased, will attend the Probate Court of Lake County, at a term thereof to be holden at the Court House in Waukegan, in said County, on the first Monday of August next, 1927 when and where all persons having claims against said estate are notified and requested to present the same to said Court for Adjudication.  
ALICE BABBITT GALLUP  
Waukegan, Ill., May 23, 1927. 13-15

#### YELLOW CAB RATES

First two-thirds mile .....35c  
Each additional 1-3 mile .....10c  
No charge for extra passengers.  
PHONE HIGHLAND PARK 2000

#### SPECIAL ASSESSMENT NOTICE NO. 306

Notice is hereby given to all persons interested that the City Council of the City of Highland Park, County of Lake and State of Illinois having ordered the construction of a connected system of Cast Iron Water Mains in Glenwood Avenue, Harlan Court, Deerfield Avenue, Blodgett Place, West Parkway, East Parkway, Western Avenue, Taylor Avenue, Sandwick Court, South End Court, North End Court, Beverly Place, Athletic Field Lane and West Park Avenue, all in the City of Highland Park, Lake County, Illinois, the ordinance for the same being on file in the office of the City Clerk of said city and having applied to the County Court of Lake county for an assessment of the costs of said improvement according to benefits, and an assessment thereof having been made and returned to said court, the final hearing thereon will be had on the 11th day of June A. D. 1927 or as soon thereafter as the business of the court will permit.

Said assessment is payable in ten (10) installments, with interest at the rate of six (6) per centum per annum on all installments from and after date of issue of first voucher. All persons desiring may file objections in said court before said day and may appear on the hearing and make their defense.

FRANK LAING,  
Officer appointed to make said Assessment.

Dated at Highland Park, Ill., May 26, A. D. 1927. 13-14

#### SPECIAL ASSESSMENT NOTICE NO. 313

Notice is hereby given to all persons interested that the City Council of the City of Highland Park, County of Lake and State of Illinois having ordered the construction of a reinforced concrete pavement improvement in Golf Court and a thirty-three foot street running north and south (being a street between the west line of the NW 1/4 of Section 26, Twp. 43 N, R. 12 E of the 3rd P. M. and lots 9, 10, 11, and 12 of Golf Court Subdn.,

the ordinance for the same being on file in the office of the City Clerk of said city and having applied to the County Court of Lake county for an assessment of the costs of said improvement according to benefits, and an assessment thereof having been made and returned to said court, the final hearing thereon will be had on the 11th day of June A. D. 1927 or as soon thereafter as the business of the court will permit.

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FRANK LAING,  
Officer appointed to make said Assessment.

Dated at Highland Park, Ill., May 26, A. D. 1927. 13-14

#### SPECIAL ASSESSMENT NOTICE NO. 304

Notice is hereby given to all persons interested that the City Council of the City of Highland Park, County of Lake and State of Illinois having ordered the construction of a connected system of cast iron water mains

in Hiawatha Trail, Hiawatha Court, Ny-O-Da Place, and Winona Road, all in the City of Highland Park, Lake County, Illinois, the ordinance for the same being on file in the office of the City Clerk of said city and having applied to the County Court of Lake county for an assessment of the costs of said improvement according to benefits, and an assessment thereof having been made and returned to said court, the final hearing thereon will be had on the 11th day of June A. D. 1927 or as soon thereafter as the business of the court will permit.

Said assessment is payable in ten (10) installments, with interest at the rate of six (6) per centum per annum on all installments from and after date of issue of first voucher. All persons desiring may file objections in said court before said day and may appear on the hearing and make their defense.

FRANK LAING,  
Officer appointed to make said Assessment.

Dated at Highland Park, Ill., May 26, A. D. 1927. 13-14

#### SPECIAL ASSESSMENT NOTICE NO. 308

Notice is hereby given to all persons interested that the City Council of the City of Highland Park, County

of Lake and State of Illinois having ordered the construction of a connected system of east iron water mains in Eastview Road, Sumac Road, Ridgelee Road, Old Briar Road, Balsam Road, Blossom Court and Poplar Road, all in the City of Highland Park, Lake County, Illinois, the ordinance for the same being on file in the office of the City Clerk of said city and having applied to the County Court of Lake county for an assessment of the costs of said improvement according to benefits, and an assessment thereof having been made and returned to said court, the final hearing thereon will be had on the 11th day of June, A. D. 1927 or as soon thereafter as the business of the court will permit.

Said assessment is payable in ten (10) installments, with interest at the rate of six (6) per centum per annum on all installments from and after date of issue of first voucher. All persons desiring may file objections in said court before said day and may appear on the hearing and make their defense.

FRANK LAING,  
Officer appointed to make said Assessment.

Dated at Highland Park, Ill., May 26, A. D. 1927. 13-14

## Plant Seeds of Thrift

May time is planting time; no seeds you plant will yield you better return than you receive on coal stored now.

If you waited until fall to plant your garden, there'd be no crop; if you wait until fall to fill your coal bin, there'll be no saving.

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## Co-operation

The merchants in this group are doing their part to boost the community, always having in mind a greater Highland Park. But to succeed, they need the hearty co-operation of the residents of the city. It is only thru this spirit of "working together" that the best aims of the business men and the townspeople can reach achievement.

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