

**DEEP WELL WATER IS WIDELY USED**

IN PARTS OF ILLINOIS

**Huge Total Is Reported Within in Small Area; Supply Is Likely to Weaken with Age**

Deep wells furnish enormous quantities of water for industrial and municipal use in northern Illinois, in addition to all the water taken from streams and from Lake Michigan, and still greater quantities will be needed by the rapidly growing manufacturing cities. Statistics gathered by the Illinois State Water Survey show that in the small corner of Illinois which lies east of the Fox river and north of the Kankakee river the present supply from deep wells totals fifty millions gallons a day.

A reservoir to hold a week's supply for this suburban region about Chicago would have to be two hundred feet long, forty feet deep, and one mile long. More water is being obtained from the ground in this region than in any other place in the world, the statistics show. All the deep wells in the rest of the state together furnish less than half this amount.

**Weaken With Age**

It appears that some deep wells grow feeble with age, and their productivity is subject to the law of diminishing returns. They may flow abundantly when they are first drilled and for some years afterward, but they must be pumped as they grow old.

In Chicago many deep wells have been abandoned because of the high cost of pumping and the superior quality of the supply from Lake Michigan. Only about thirty are operating now where there used to be more than one hundred.

**Number Is Increasing**

In the suburbs, however, the number has been increasing rapidly, and the continued growth of population will require still more. In view of the future needs and the high cost of drilling, methods are being sought to maintain the productivity of the old wells as long as possible.

The lowering of the water level is due partly to exhaustive pumping and partly to changing conditions in the rock from which the water comes.

C. H. Habermeyer, engineer of the State Water Survey, who is making a systematic study of the availability of water for industrial and municipal purposes in important manufacturing centers throughout Illinois.

**Why Old Wells Fail**

Several possible reasons for the failure of old wells are advanced by Mr. Habermeyer. "The lowering of the water level, caused by rapid and exhaustive pumping, reduces the pressure in the water-bearing strata, releases the dissolved gases, and thus allows certain mineral substances to be deposited. The mineral deposits hinder the seepage of water into the well, so that if pumping is continued the water level falls still more. It is claimed that blasting has restored yields of wells by breaking up these deposits.

"Growths on walls of wells, mechanical clogging of strata by fine sand or other material, and compression of the strata may also reduce the rate of flow into the well.

**Future Needs?**

"About the only conclusion that can be drawn at this time is that the lowering of the water level in wells in northern Illinois is due primarily to the increasing quantity of water pumped.

"In the vicinity of Chicago much of the supply now comes from wells that are already as deep as they can be drilled without encountering salty water. If conditions become more stable, it should be possible within the next few years to secure more definite information respecting the change of water level and the dependability of the supply for future needs."

**ILLINOIS SEVENTH IN MINERAL PRODUCTS**

Is Seventh Among States of the Union; Far Surpasses Even Alaska

Illinois stands seventh among the states of the union in the value of mineral products. It is surpassed alone by the states of Pennsylvania, Oklahoma, California, Texas, West Virginia and Ohio, according to the State Geological Survey, Department of Registration and Education.

The average person in considering mineral wealth takes into consideration first the states of Arizona, Utah, Montana, Wyoming, Colorado, Idaho, Nevada and New Mexico, but these states fall far below the annual output of Illinois, which is placed at \$231,680,000.

Arizona with its gold, silver, copper and lead mines produces less than one-half the valuation as our own state. New Mexico produces less than one-ninth that of Illinois.

Alaska, the land of the gold hunter, and credited with an unlimited supply of coal, produces but one-thirteenth of the mineral wealth as is annually taken from the earth in Illinois.

Illinois ranks first in the production of fluor spar, agricultural lime-

stone and silica sand, and possesses inexhaustible supplies of sand, gravel and stone suitable for construction purposes, while in company with competing states it ranks high in coal, petroleum, cement and clay.

**COUNTY COURT OF LAKE COUNTY, ILLINOIS, HIGHLAND PARK SPECIAL ASSESSMENT NUMBER 512. NOTICE**

Notice of proceedings for the condemnation of land to be taken for the construction of a connected system of Sanitary Sewers in Ravinia Delis and for Lots 2 and 3 of a Subdivision of Lots 1, 15, 16, 17 and 18 of Lakeside Manor, all in the City of Highland Park, Lake County, Illinois.

**COUNTY OF LAKE, AS THAT SAID PROCEEDINGS ARE ENTITLED:**

IN THE COUNTY COURT OF LAKE COUNTY, ILLINOIS, HIGHLAND PARK SPECIAL ASSESSMENT NUMBER 512. CITY OF HIGHLAND PARK

vs. MARVIN H BROOK, E. CHANNING COOLIDGE

**ALL WHOM IT MAY CONCERN:**

In the matter of the petition of the City of Highland Park for the ascertainment of the just compensation to be made for private property to be taken or damaged for the construction of a connected system of Sanitary Sewers in Ravinia Delis and for lots 2 and 3 of a Subdivision of Lots 1, 15, 16, 17 and 18 of Lakeside Manor, all in the City of Highland Park, Lake County, Illinois, by condemning the following described property, to-wit:

The South ten (10) feet of Lot 1 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Sub.

The South ten (10) feet of Lot 2 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Sub.

A strip of land ten (10) feet in width across lot 3, the side line of which coincides with the south line of said lot 3 in the Subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision.

All that part of lot 4 lying southerly of a line ten (10) feet northeasterly of and parallel with the southerly line of lot 3 and said lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision, all in the City of Highland Park, Lake County, Illinois, for the purpose of making said improvement.

**TO ALL WHOM IT MAY CONCERN:**

The said Court by order duly entered hereon, having directed that notice be given to

the said defendants and to all whom it may concern, by publication as by law required in the Highland Park Press, a newspaper published in the City of Highland Park, County of Lake and State of Illinois.

Notice is hereby given to all whom it may concern, that the City of Highland Park heretofore to-wit, September 21, 1926, filed its petition in the County Court of Lake County, Illinois, praying for the ascertainment of the just compensation to be made for private property to be taken or damaged for the construction of a connected system of Sanitary Sewers in Ravinia Delis and for Lots 2 and 3 of a Subdivision of Lots 1, 15, 16, 17 and 18 of Lakeside Manor, all in the City of Highland Park, Lake County, Illinois, by condemning the following described property, to-wit:

The South ten (10) feet of Lot 1 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision.

A strip of land ten (10) feet in width across lot 3, the side line of which coincides with the south line of said lot 3 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision.

All that part of lot 4 lying southerly of a line ten (10) feet northeasterly of and parallel with the southerly line of lot 3 and said lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision, all in the City of Highland Park, Lake County, Illinois, for the purpose of making said improvement, and of what property will be benefited thereby and the amount of such benefit, the estimated cost of such improvement being the sum of Eight Thousand Seven Hundred Ninety Dollars and no cents (\$8,790.00); that Commissioners were duly appointed by said Court to investigate and report the sum of such benefits to be made for private property to be taken or damaged for said improvement, and also what real estate will be benefited by such improvement, and the amount of such benefits to each parcel of land benefited thereby, and that said Commissioners duly made a special assessment to raise the cost of such improvement, and duly filed their report in the office of the Clerk of the said Court on the first day of July, A. D. 1927.

Thereupon a summons issued out of said Court against the defendant above named and All Whom It May Concern, returnable at the County Court House in the City of Waukegan, in said County, on the thirteenth day of September, A. D. 1927, as is by law required, which proceeding is still pending. Now, unless you, the said defendants, designated as All Whom It May Concern, shall be an appearance before the said County Court of Lake County, Illinois, at the Court House in the

City of Waukegan, in said County, on or before the thirteenth day of September, A. D. 1927, and plead, answer or demur to the petitioner's petition, or object to the report of the Commissioners aforesaid, the same and the matters and things therein charged and stated will be taken as confessed, and a judgment entered in accordance with the said report and the prayer of the said petitioner.

The following is a description of the lots, blocks, tracts or parcels of land sought to be taken or damaged for the proposed improvement aforesaid, viz.:

The South ten (10) feet of Lot 1 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision.

The South ten (10) feet of Lot 2 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision.

A strip of land ten (10) feet in width across lot 3, the side line of which coincides with the south line of said lot 3 in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision.

All that part of Lot 4 lying southerly of a line ten (10) feet northeasterly of and parallel with the southerly line of Lot 3 and said line extended in the subdivision of Lots 1, 15, 16, 17 and 18, Lakeside Manor Subdivision, all in the City of Highland Park, Lake County, Illinois.

Dated at the City of Highland Park, County of Lake and State of Illinois, this eleventh day of August, A. D. 1927.

LEW A. HENDEE, Clerk of the County Court of Lake County, Illinois.

BOWEN E. SCHUMACHER, Attorney for the City of Highland Park.

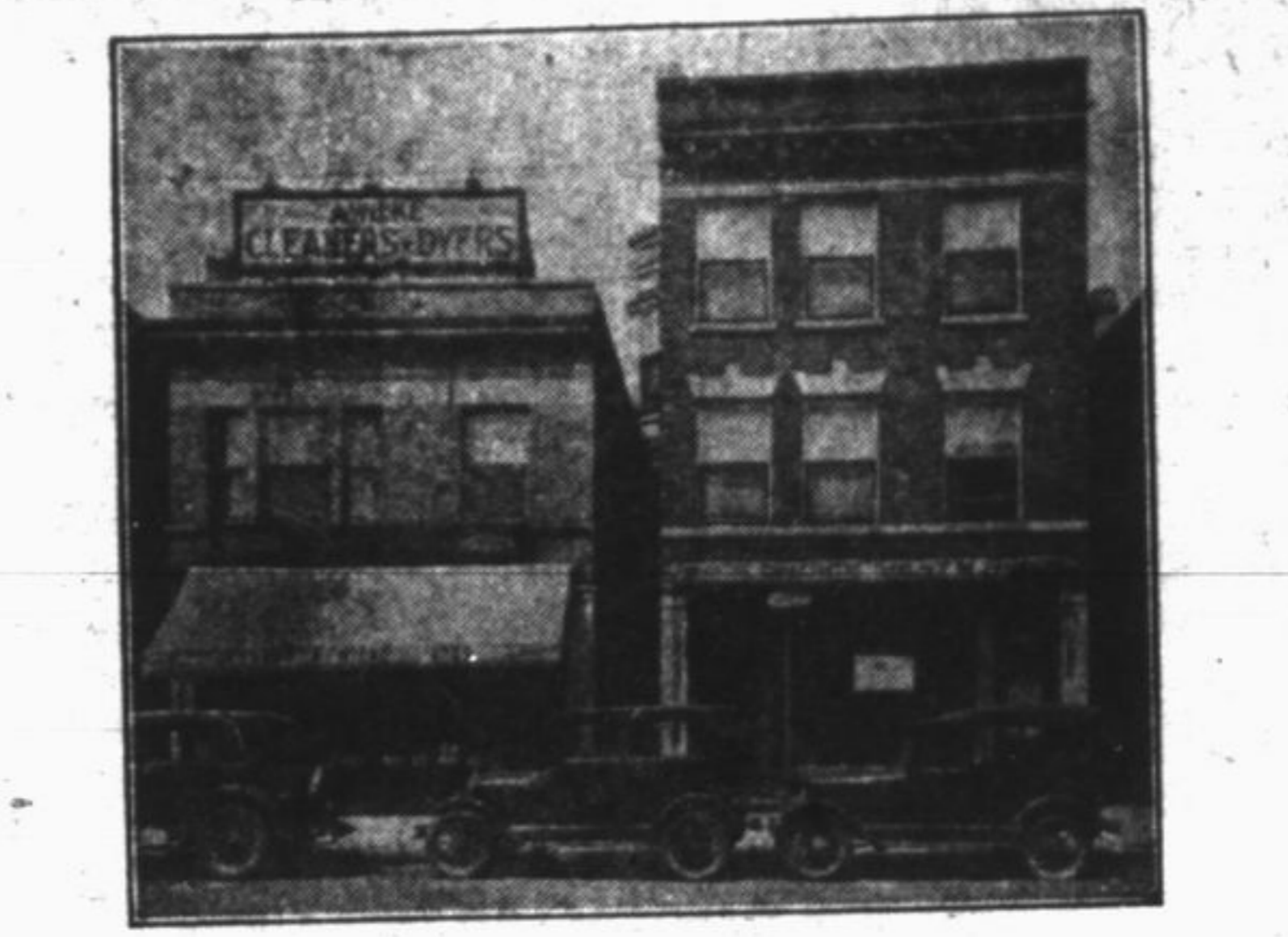
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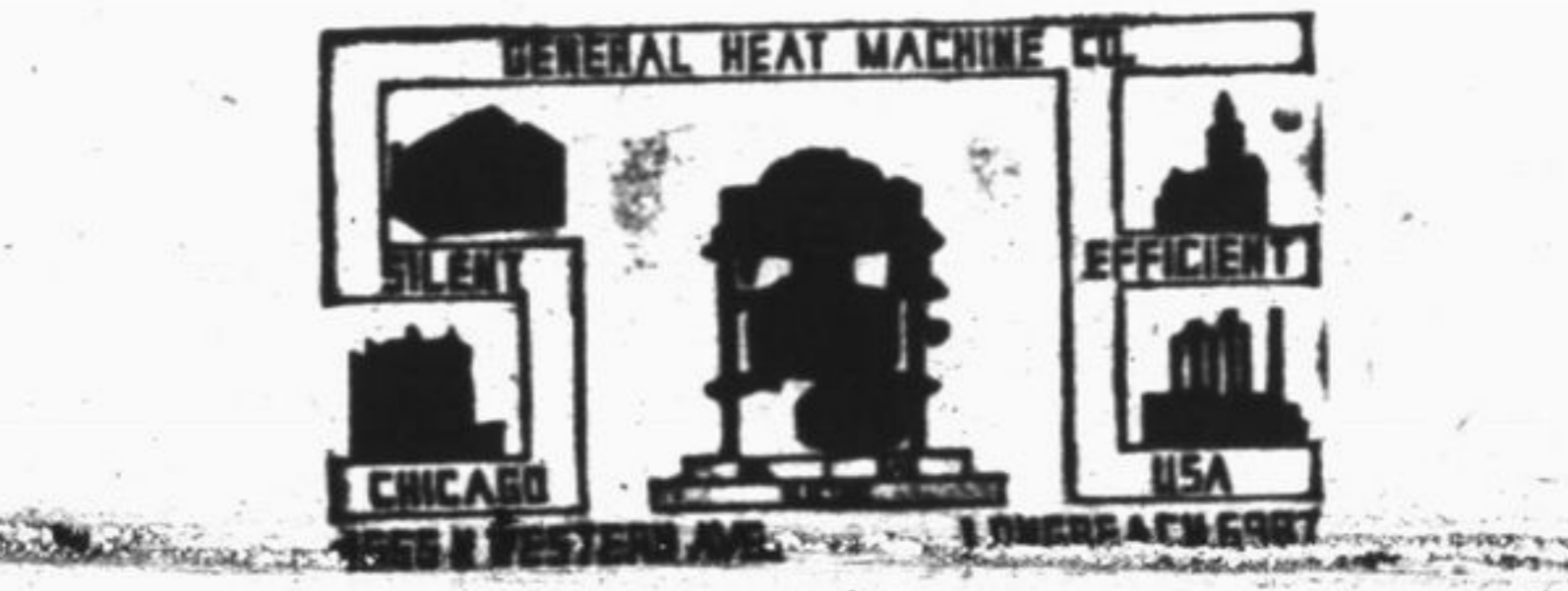


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