

WATER IS POURING INTO THE SOO'S GREAT CANAL

Most Magnificent Power Project of the Kind in the World—Energy and Genius of Francis H. Clergue Made It Possible.

Water is flowing for the first time into the great water power canal of the Michigan-Lake Superior Power company at Sault Ste. Marie. The canal, just finished after four years of construction and an expenditure of five millions, was designed by engineers as the most magnificent work of the kind in the world.

Like an immense river, 220 feet broad, and deep enough to float the biggest flat-bottomed boats, it divides Sault Ste. Marie into a city of two parts, with the island portion, now for the first time completely surrounded by water, the business section and the remainder of the city being given over to the homes of its citizens.

An interesting side feature of the canal is the big movable dam constructed at the head of the canal to control the volume of water. This was built by the Detroit Bridge and Iron company, and the completed structure, it is estimated, represents a cost of not less than \$100,000.

Another interesting feature is the lock, which occurs as a space just at the entrance to the forebay. This is designed to intercept the ice, logs or other obstructions which may find a way into the canal and divert them into a spillway through which they are conducted into the river.

Compensating works. One of the serious problems which confronted the engineers in planning the canal was the question, the effect of opening such an immense waterway would have upon the level of Lake Superior. Upon this problem the opinion of the very best engineers in the country were secured, and the result was the construction at this point of what are known as "compensating works."

Monument to Clergue. Completed, with water filling it brimming full, held in check at its foot by a power house of immense proportions, turning the wheels of machinery sufficient to drive the mills of a manufacturing plant of 500,000 souls, the great American Soo power canal stands to-day as the achievement of the genius and daring of one man, Francis H. Clergue.

Reduces Friction. The object of planking beneath the water is to reduce the friction, thus securing as large a fall as possible at the point where the canal enters the river. The lower 3,000 feet of the canal is on a continuous curve of about three degrees. The obstruction of the portion of the canal which traverses the rocky terrain of the removal of 1,500,000 cubic yards of material and 15,000,000 feet of timber were used in the flooring and sides of the canal.

Powerhouse Cost a Fortune. The river front of the forebay is closed by the power-house, the duplicate of which cannot be found in the United States. It is constructed of red sandstone, is forty-eight feet over a quarter of a mile in length, and is 100 feet wide and 125 feet high. The massive building sits upon a foundation of piles covered by log sills and caps, and covered with Portland cement concrete to a depth of three feet. The cost of building this foundation alone represents a snug little fortune.

40,000 Horse Power. The energy to be developed by this immense engineering achievement is estimated at 40,000 actual horse power, developed by 320 turbines of the McCormick type. Four of these turbines in pairs are placed in each penstock. All of the turbines are joined to one high shaft of pressed steel, and are housed in iron casings, leaving no openings save for the passage of water. The water enters the penstocks at a depth of 13 feet and passes through the draft tubes, below each turbine, thence into the pits and from there into the river.

Electrical equipment of the power house consists of eighty dynamos constructed by the Westinghouse company. After converting the water power into electrical power the latter will be transmitted to the power houses at the city.

JOHANN HOFF'S EXTRACT. If cheaper were just as good. could not have stood the test of over half a century, with increasing sales every year. For the weak and debilitated, and in dyspepsia.

STATUS OF LA FOLLETTE

STALWARTS WILL SCRATCH HIM But He Will Win Out—How Washington Sides Up in Situation.

Chicago, Aug. 13.—A Chronicle Washington special says: Wisconsin Republicans connected with the administration who have returned from the recent state convention at Madison are disappointed and chagrined at Governor La Follette's success in completely dominating the convention. All Wisconsin men attached to the administration at Washington belong to the stalwart wing of the party. They received their appointments before La Follette came into possession of the republican machinery. They are men who have been identified with the Payne-Mcristler regime. Consequently they have no sympathy with the reform governor or his friends and would be glad if he were defeated at the polls next November.

Divine Right in Danger. A BILL TO SUPPRESS FISH LIES. Attorney Woodward of La Crosse, Not Unknown to Fame, Will Present It.

Special to The Journal. La Crosse, Wis., Aug. 13.—Attorney W. S. Woodward of this city, author of the notorious bill providing that all persons should be held liable for the sale of hereditarily and contagious diseases before permission is granted for marriage, which was defeated by the last legislature, will present to the legislature a bill for the suppression of fish lies.

Elks' Officers. Mr. Pickett Takes Strong Ground Against Street Fairs.

Political Announcements. For Mayor. FRED M. POWERS is a candidate for the republican nomination for mayor.

For County Auditor. HUGH R. SCOTT, county auditor, candidate for renomination on the republican ticket at the primary election.

For State Senators. CARL L. WALLACE, candidate for senator, 4th district, republican primary ticket.

For Representative. CORNELIUS B. SHOVE, candidate for representative 4th district, subject to the decision of the republican primary election.

Heavy Sales of Copper. The War to Be Fought Out to the Bitter End.

Heavy Sales of Copper. The War to Be Fought Out to the Bitter End. New York, Aug. 13.—Heavy sales of copper were made on a further decline in the price of the metal in the local market to-day.

Journal Want Ads. Are sure to bring returns if given a fair trial. Use them. Read them. Success is bound to be yours.

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K. C. MEN GO HOME

They Say Nice Things About the "Twins."

ALSO ABOUT THEIR HOSTS HERE

The Hotel Berkeley Is Bought by Luther Ford—Price \$22,000.

The Kansas City guest of the Minneapolis Real Estate Exchange left for home last evening after spending the day in St. Paul.

Flats for Boise City. Hodgson & Son, architects, have in hand preparation for a big piece of outside work.

Hotel Berkeley Sold. The Hotel Berkeley was sold yesterday for \$22,000 to Luther Ford through the agencies of Nickels & Smith and Edmund G. Walton.

Real Estate Transfers. James Wilson and wife to Stephen Finch; part of lots 1, 2 and 3, block 15, Meeker island Land and Power company's addition revised, \$750.

Wanted—To Rent. WANTED—A 4 OR 6 ROOM MODERN FLAT or small house; rent must not exceed \$10.

Machinery and Engines. WE ARE IN POSITION TO DO ALL KINDS of new and used machinery, including engines; employ only first-class mechanics; no apprentices or helpers.

Dyeing and Cleaning. MINNEAPOLIS DYE WORKS. DYERS AND French dry cleaners. Oldest, largest and best dry cleaning establishment west of New York.

Minnetonka Property. NORTHLAND, FIRST STATION ON GREAT NORTHWESTERN, 20 minutes from city. We will erect a few houses to suit desirable purchasers and sell on convenient payments.

Detective Agencies. BAXTER'S DETECTIVE AGENCY, 615 TEMPLE COURT, MINNEAPOLIS. Call or write for folder. George C. Andrews, 808 Globe bldg.

All About the Pacific Northwest. THE OREGON RAILWAY & NAVIGATION CO. has just issued a third edition of its booklet, "Oregon, Washington, Idaho."

Stove Repairs. REPAIR FOR ALL STOVES. GREAT Western Stove Repair Co., 313 Hennepin av.

Musical. VIOLIN—WE MAKE A SPECIALTY OF small violins; good outfits for \$5; expert repairing. Rose & Savitsky, 41-43 6th st.

\$2,000. Takes that handsome home just completed by us at 2830 Bloomington av. S. This is an eight-room house, with nickel plated, open, porcelain plumbing; brick finish in reception-room, parlor and dining-rooms; hardwood floors throughout entire house; full cemented basement, with laundry, furnace heat, leaded glass windows and pretty wall decorations. This house is strictly up to date and located on an east-front lot, with sewer, water and stone walk in street and paid for. This price also includes the lot, graded and sodded, and stone lawn walks.

Yale Realty Co., 101-102 Bank of Com. Bld.

FOR ONLY \$4800. YOU CAN BUY 2732 Third Av. So. ON EASY TERMS. Look at it if you want an up-to-date home at an astounding bargain.

J. F. Conklin & Zenne Co. 115 Temple Court.

HOLLAND-AMERICA LINE. New York-Rotterdam, via Bologne-sur-Mer, New Two new steamers of 13,000 tons register.

WANTED—TO RENT. WANTED—A 4 OR 6 ROOM MODERN FLAT or small house; rent must not exceed \$10.

MACHINERY AND ENGINES. WE ARE IN POSITION TO DO ALL KINDS of new and used machinery, including engines; employ only first-class mechanics; no apprentices or helpers.

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WANT ADS ON PAGES 12 and 13

FOR RENT. UNFURNISHED HOUSES. FREE "FOR RENT" CARDS FOR THOSE advertising under this head. Be sure and call for them when you leave the ads.

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