

Glaciers Passing This Way Gave Us Our Great Lakes

Just a few years ago, geologists in Michigan, in places, the prominent on fresh bedrock surfaces, such as those exposed in the overburden as they struck in stone quarries. Frequently, this "glacial pavement" is polished to a luster.

IN PARTS OF the upper peninsula, small protruding regularities in the old hard rock formations have been ice-sculptured and

streamlined so they now appear to be "elephant backs" emerging from the soil.

The glaciers that shaped the face of Michigan and gouged out the Great Lakes basins had their beginning about one million years ago; climatic changes caused winters to lengthen in the northern part of the continent, and snowfall to increase but not melt in the short, cool summers.

Four times, great masses of ice accumulated in the Hudson Bay region to form continental glaciers, similar to the two-mile thick ice caps of Greenland and Antarctica.

As the last glacier, the so-called Wisconsin, approached the Great

Lakes carrying an increasingly complex succession of lakes known to geologists. The retreat was not continuous, but was marked with many halts and occasional readvances.

As the ice lobes withdrew into the basins they had carved during their advance, tremendous volumes of meltwater were ponded between the glacier front and the northern sides of an earlier moraine. Thus were born the first ancestors of the Great Lakes—Lake Chicago and Lake St. Clair.

After the ice had withdrawn completely from the lower peninsula, waters in the Michigan and Huron basins rose to form vast Lake Algonquin which discharged

at Chicago and Port Huron. Lake Erie had formed earlier when the flooding water level in that basin encountered resistant limestone in the Niagara River to create Niagara Falls.

As the ice retreated in the Superior Basin, Lake Duluth grew in size and continued to discharge south.

Slowly the Wisconsin glacier retired from the Great Lakes region, returning to the area where it first began to grow some 65,000 years ago. Relieved of the tremendous weight of ice which had depressed its surface, the earth started to "spring" upward in what is called crustal rebound.

THE FORMER sea level outlet at North Bay, Ontario, rose gradually but continued to handle much of the discharge during the transition to the last glacial lake stage—the Nipissing Great Lakes—the largest of all the Great Lakes stages.

Rebound also forced the St. Lawrence Sea to recede back to the Atlantic so that fresh waters entering the basin could form Lake Ontario. About 2,000 years elapsed before rainwaters eventually filled the upper lakes basins.

Then about 3,000 years ago, Lake Nipissing began to wane. As the water surface dropped to the level of the sandstone sill in the St. Marys River, Lake Superior was born. Finally, as lowering levels continued, the Chicago outlet was abandoned and lakes Michigan and Huron were born.



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Legal Notices

Elton H. Eckstrand, Attorney, 2427 Daviess Street Building, Detroit, Michigan 48209

STATE OF MICHIGAN—The Probate Court for the County of Oakland, in and for the State of Michigan, do hereby certify that the will of WILLIAM W. MOHRING, deceased, as a copy of said will, held at the Probate Court in the City of Pontiac, in said County, on the 25th day of July, A.D. 1962.

Present, Hon. Donald E. Adams, Judge of Probate.

Notice is hereby given and it is hereby ordered that the time and place for hearing of claims against said estate shall be the 6th day of October, 1962, at nine o'clock in the forenoon at the Probate Court in the Court House at the City of Pontiac, Michigan.

All creditors or claimants against said estate are to appear at said hearing and to prove their claims at said hearing. Claims not so proved shall be barred. Claims not so proved, with this Court order, containing sufficient detail reasonably to inform the estate, shall be paid to the estate.

Notice is further ordered that notice be given to all interested parties as shown by a copy of this order to each of them personally, or by mailing such copy to each of them by registered mail with return receipt demanded addressed to their respective last known addresses as shown by the files and records in this court.

And it is further ordered that public notice thereof be given by publication of a copy of this order once each week for three successive weeks previous to said day of hearing in the Birmingham Recorder, a newspaper printed and circulated in said county.

DONALD E. ADAMS,
Judge of Probate.
(121-22-24)

Hewlett, Hatman & Beier, Attorneys at Law, 1001 Pontiac State Bank Building, Pontiac, Michigan 48302

STATE OF MICHIGAN—In the Probate Court for the County of Oakland, in and for the State of Michigan, do hereby certify that the will of ALBERT F. MARSH, deceased, as a copy of said will, held at the Probate Court in the City of Pontiac, in said County, on the 15th day of July, A.D. 1962.

Present, Honorable Arthur E. Moore, Judge of Probate.

Notice is hereby given and it is hereby ordered that the time and place for hearing of claims against said estate shall be the 6th day of October, 1962, at nine o'clock in the forenoon at the Probate Court in the Court House in the City of Pontiac, Michigan, in and for the County of Oakland, in and for the State of Michigan.

It is further ordered that notice be given to all interested parties as shown by the records in this cause by delivering a copy of this order to each of them personally, or by mailing such copy to each of them by registered mail with return receipt demanded addressed to their respective last known addresses as shown by the files and records in this court.

And it is further ordered that public notice thereof be given by publication of a copy of this order once each week for three successive weeks previous to said day of hearing in the Birmingham Recorder, a newspaper printed and circulated in said county.

ARTHUR E. MOORE,
Judge of Probate.
(121-22-23)

Miller, Canfield, Paddock & Stone, Attys., 116 Wabek Building, Birmingham, Michigan 37258

STATE OF MICHIGAN—In the Probate Court for the County of Oakland, in and for the State of Michigan, do hereby certify that the will of MARTIN C. BRUSH, deceased, as a copy of said will, held at the Probate Court in the City of Pontiac, in said County, on the 25th day of July, A.D. 1962.

Present, Hon. Arthur E. Moore, Judge of Probate.

The Detroit Bank and Trust Company, Special Administrator, and The Detroit Bank and Trust Company, Executor and John A. Gilroy, Jr., Administrator with Will Annexed, of said estate having filed in said court their First and Final Account of Special Administrator and First Account of Executor and petition praying for the examination and allowance thereof, allowance of fees, discharge of said Special Administrator and an extension of time in which to close said estate.

It is ordered that the 25th day of August, A. D. 1962 at nine o'clock in the forenoon, at said Probate Court in the Court House in the City of Pontiac, Michigan, be and is hereby appointed as the time and place for hearing said petition.

It is further ordered that notice be given to all interested parties as shown by the records in this cause by delivering a copy of this order to each of them personally, or by mailing such copy to each of them by registered mail with return receipt demanded addressed to their respective last known addresses as shown by the files and records in this cause.

And it is further ordered that public notice thereof be given by publication of a copy of this order once each week for three successive weeks previous to said day of hearing in the Birmingham Recorder, a newspaper printed and circulated in said county.

ARTHUR E. MOORE,
Judge of Probate.
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