STATE GEOLOGICAL SURVEY

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H. FOSTER BAIN, DIRECTOR.

A PROVISIONAL GEOLOGIC MAP OF ILLINOIS

This map has been compiled by STUART WELLER mainly from published sources and varies in accuracy with the degree of detail shown. Practically the entire state is mantled with the drift and associated deposits so that, except in areas where detailed surveys have been made, as in the western part of Jo Daviess county, the boundaries may be considerably out of place. The coal mine locations are taken, by permission, from the Peabody Atlas, with revision by the State Mine Inspectors.

[SECOND EDITION.]

1907

LEGEND

LITHOLOGY | ECONOMIC PRODUCTS

QUATERNARY

Alluvium, sands and gravels — *Gravels for road making, sands for building, molding, etc., silts and clays for brick-making*

TERTIARY

Shales, fire clays, sands and gravel. (Possibly including some Cretaceous) — *Gravels for road materials and ballast; fire clays and shales for brick making; green sand for fertilizer; silica*

CARBONIFEROUS

PENNSYLVANIAN

Coal measures, sandstones, limestones, shales and thick coals — *Coal beds, limestone and clay for Portland cement; clay and shale for building and paving brick and for sewer pipe, pottery and tile; stone for building; mineral waters; occasionally salt*

MISSISSIPPIAN

Limestones and shales; also sandstones in southern part of state — *Limestone and oolite for building; stone for lime, concrete, riprap and road making; limestone and shale for Portland cement. In southern part of state veins of fluorspar, lead, zinc and baryta; mineral waters; some salt*

DEVONIAN

Limestones in northern and central, black shale and limestone in southern part of state — *Limestone for building, concrete, lime, and road making*

SILURIAN

NIAGARA

Dolomite, massive, in part cherty — *Dolomite for building, furnace flux, concrete and road making*

ORDOVICIAN

CINCINNATI

Shales, blue argillaceous. Thin bands of limestone and dolomite in northern part of state. Shales, sandstones and limestones in southern part of state — *Shale for paving brick and sewer pipe; clay for pottery and tile; stone for building, road making and concrete*

GALENA-TRENTON

Dolomite, massive, in part cherty, in northern part of state. Limestone in southern part of state — *Dolomite for buttuing, road making and lime; veins of lead and zinc in J. Daviess and Stephenson counties*

ST. PETER

Sandstone, soft, massive — *Sand for glass making, moulding and building; main source of artesian waters*

LOWER MAGNESIAN

Dolomite, massive. Found only in La Salle and Ogle counties — *Natural cement rock; dolomite for road making; concrete and lime*

POST CARBONIFEROUS

In Pope and Hardin counties — LAMPROPHYRE (dikes and sheets)

FAULTS

FLUORSPAR MINES · SHIPPING COAL MINES · ZINC MINES · PRODUCING PETROLEUM FIELDS

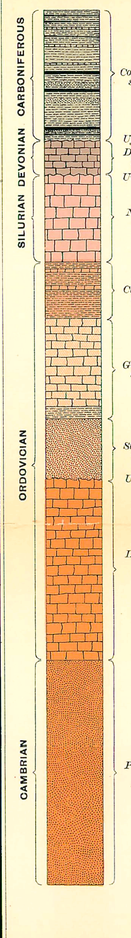
Scale
12 miles to 1 inch

COLUMNAR SECTIONS

NORTHERN ILLINOIS

For the area lying north of a line extending from Rock Island eastward through La Salle to Indiana boundary

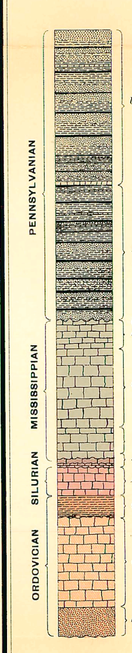
Vertical Scale; 1 inch 500 feet



CENTRAL ILLINOIS

For the area lying between a line running east from Rock Island through La Salle to the Indiana state boundary, and a line running east from the mouth of the Missouri River to the Indiana state boundary

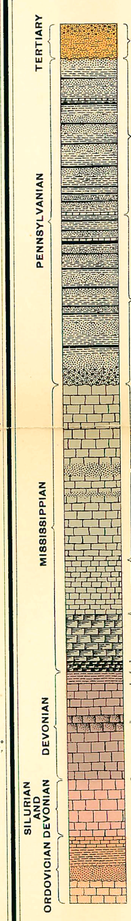
Vertical Scale; 1 inch 500 feet



SOUTHERN ILLINOIS

For the area lying south of a line drawn eastward from the mouth of the Missouri River to the Indiana boundary

Vertical Scale; 1 inch 500 feet



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