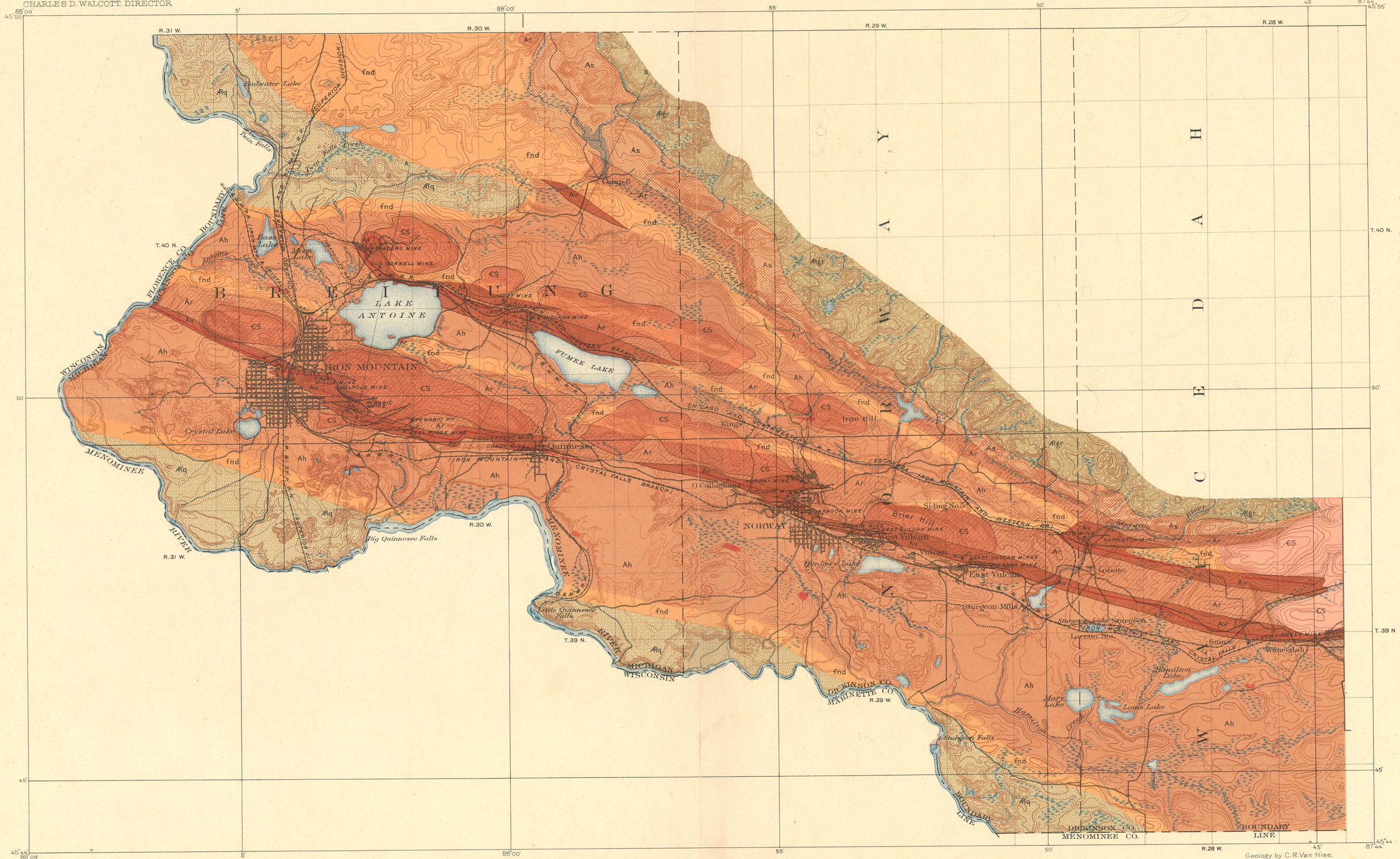
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

ECONOMIC GEOLOGY SHEET

MICHIGAN
MENOMINEE SPECIAL MAP



Jno. H. Renshawe, Geographer in charge.
Topography by E.C. Bebb.
Surveyed in 1898.

Geology by C.R. Van Hise,
W.S. Bayley, and J. Morgan Clements.
Surveyed 1896-1899.

Scale $\frac{1}{62500}$

Contour interval 20 feet.
Datum is mean sea level.

LEGEND

SEDIMENTARY ROCKS
(Areas of Sedimentary rocks are shown by patterns of parallel lines)

- Cs — Lake Superior sandstone and Hermansville limestone *(underlying formations are shown where known)* — CAMBRIAN and SILURIAN
- Ah — Hanbury slate *(chiefly clay slate and calcareous slate)*
- Av — Vulcan formation *(slates, conglomerates, jaspilite, and iron ore; underlying formation)*
- Ar — Randville dolomite *(massive light-colored dolomite)*
- As — Sturgeon quartzite *(compact quartzite and conglomerate)*

Lower Menominee series *Upper Menominee series* — ALGONKIAN

- fnd — Formation not determinable *(Areas covered by glacial drift are indicated by dots of "Vulcan formation")*

UNCLASSIFIED CRYSTALLINE ROCKS
(Areas of ancient crystalline rocks and areas of rocks of doubtful sedimentary origin are shown by patterns of short dashes)

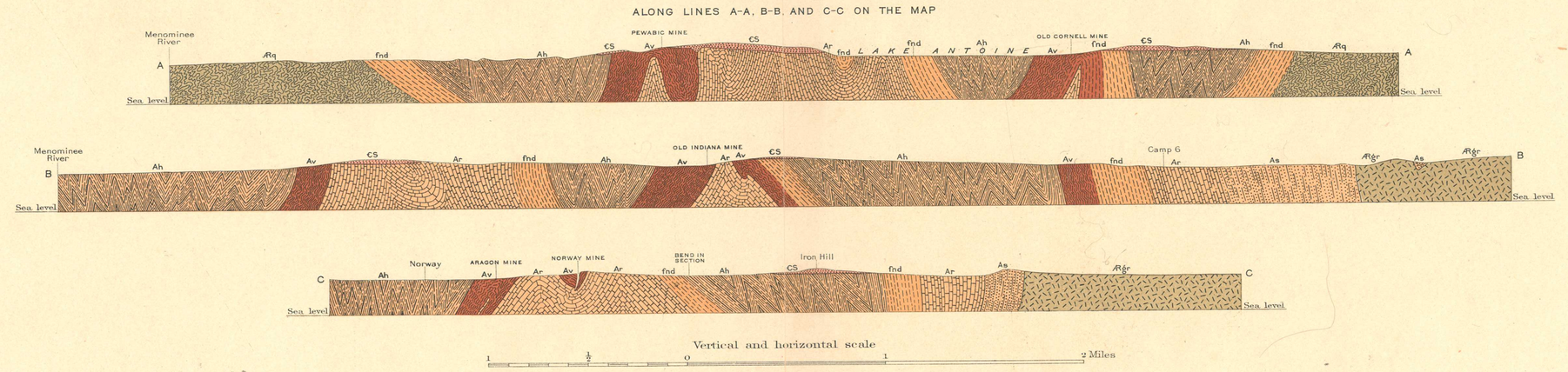
- Arqr — Granite and gneiss
- Arq — Quinnesec schists *(greenstone-schists)* — ARCHEAN

Known productive formations

- Av — *Iron-bearing formation* *(Vulcan formation containing large deposits of iron ore)*
- *Heavily ferruginous slate* *(Iron iron-bearing beds in the Hanbury slate)*
- *Magnetic lines* *(Lines of magnetism which are not shown due to the non-bearing iron-bearing formation)*

GENERALIZED STRUCTURE SECTIONS

ALONG LINES A-A, B-B, AND C-C ON THE MAP



Edition of May 1900.