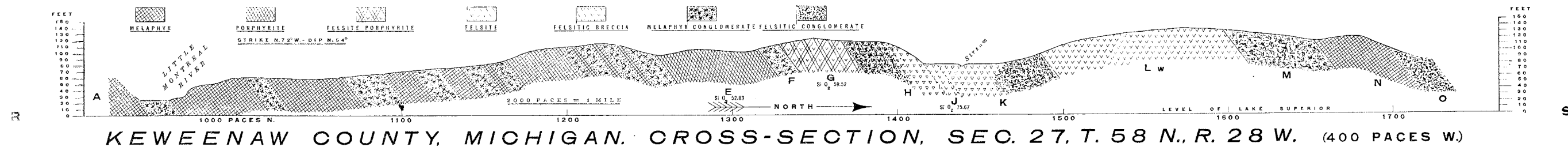
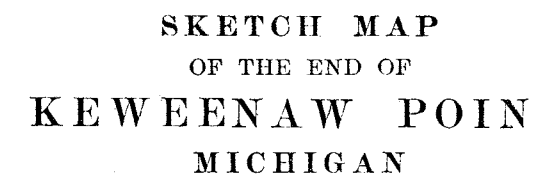


KEWEENAW COUNTY, MICHIGAN. CROSS-SECTION, SEC. 27, T. 58 N., R. 28 W. (400 PACES W.)



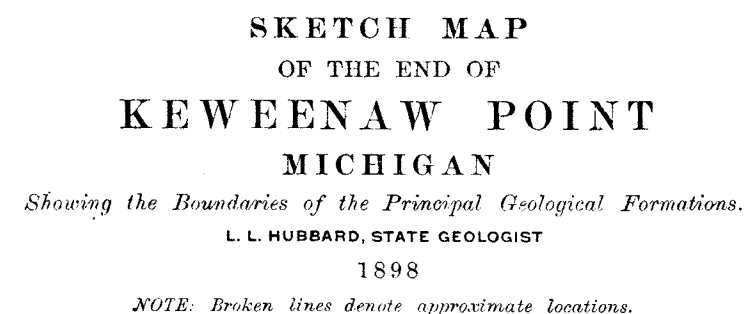


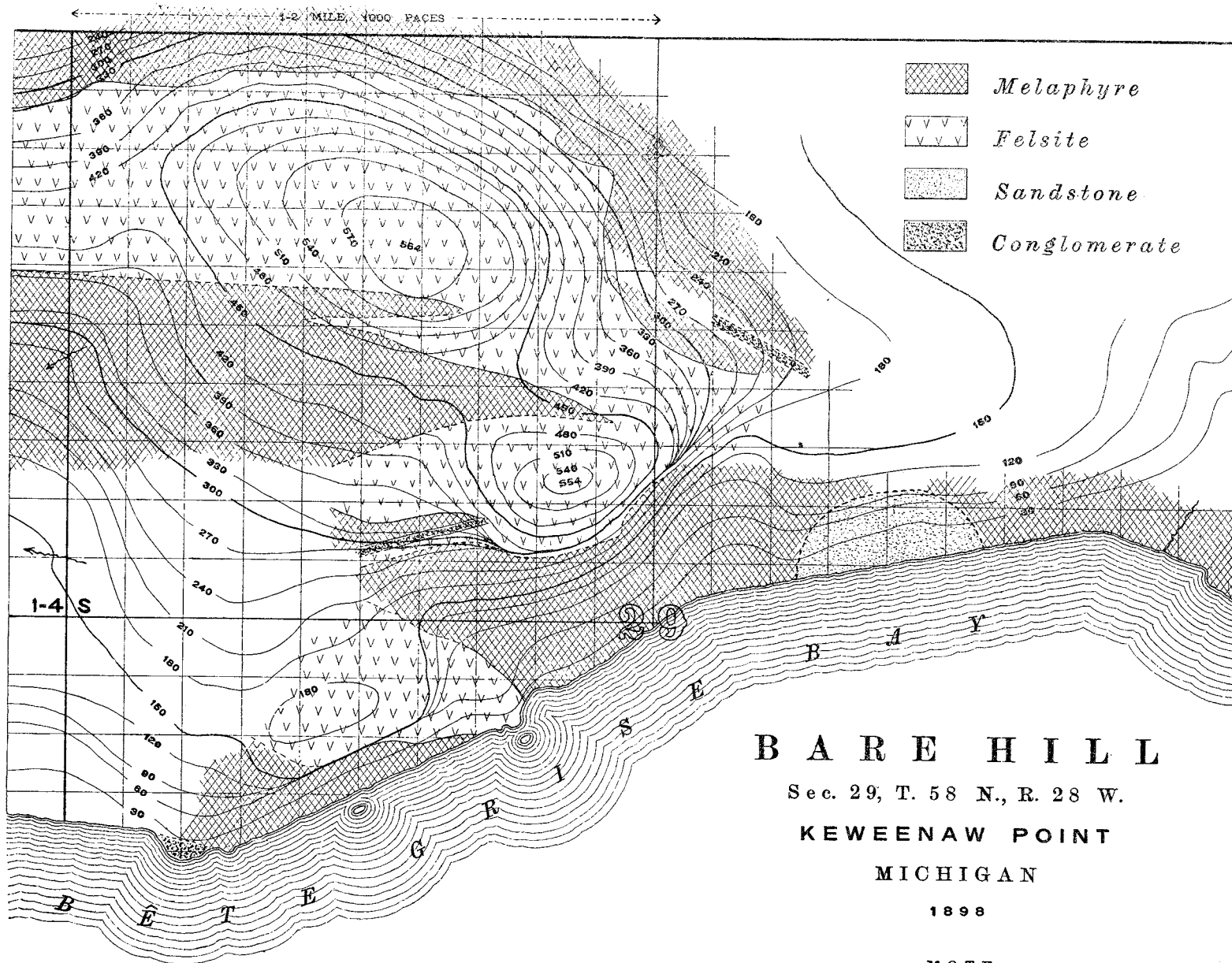
L. L. HUBBARD, STATE GEOLOGIST

1898

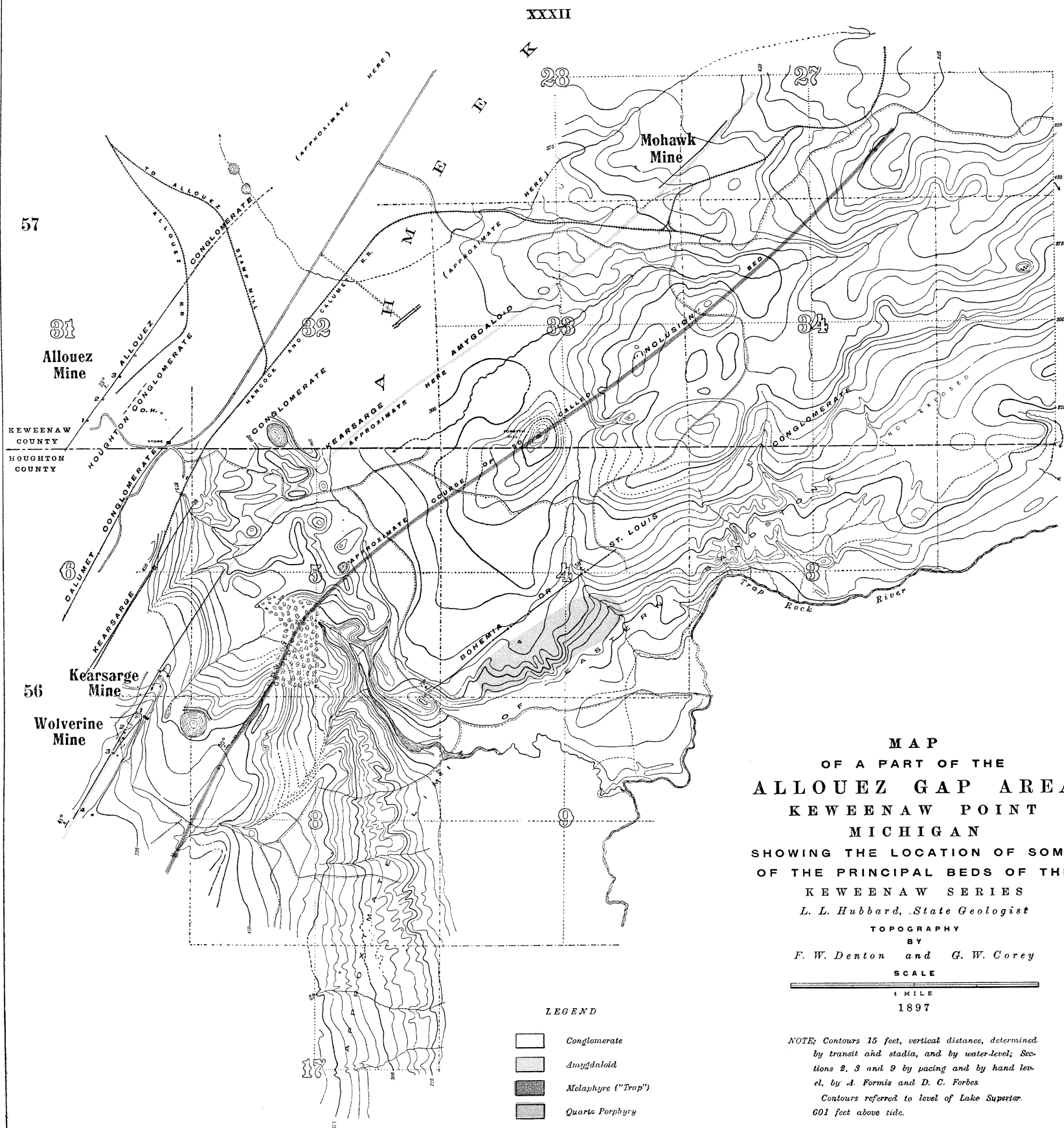
NOTE: Broken lines denote approximate locations

R. XXVII W.



**NOTE**

Contours adapted from unpublished map of Survey of North and Northwestern Lakes, War Dept., Washington. Locations determined by pacing.



56

SKETCH MAP

OF A PART OF THE

PORTAGE LAKE AREA

LAKE SUPERIOR

MICHIGAN

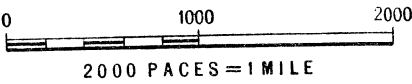
Showing the position of the principal

CONGLOMERATE BEDS

L.L. Hubbard State Geologist

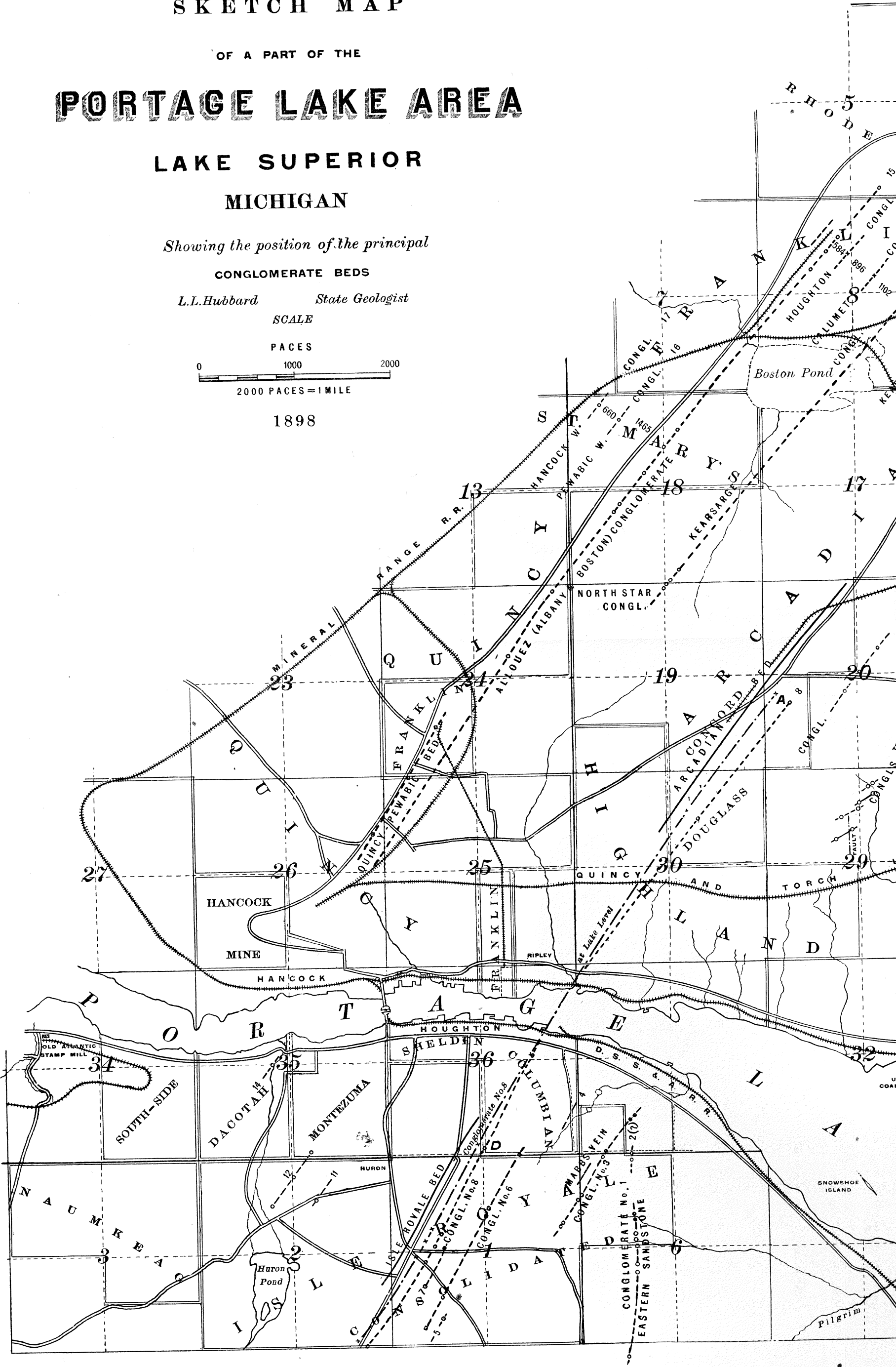
SCALE

PACES

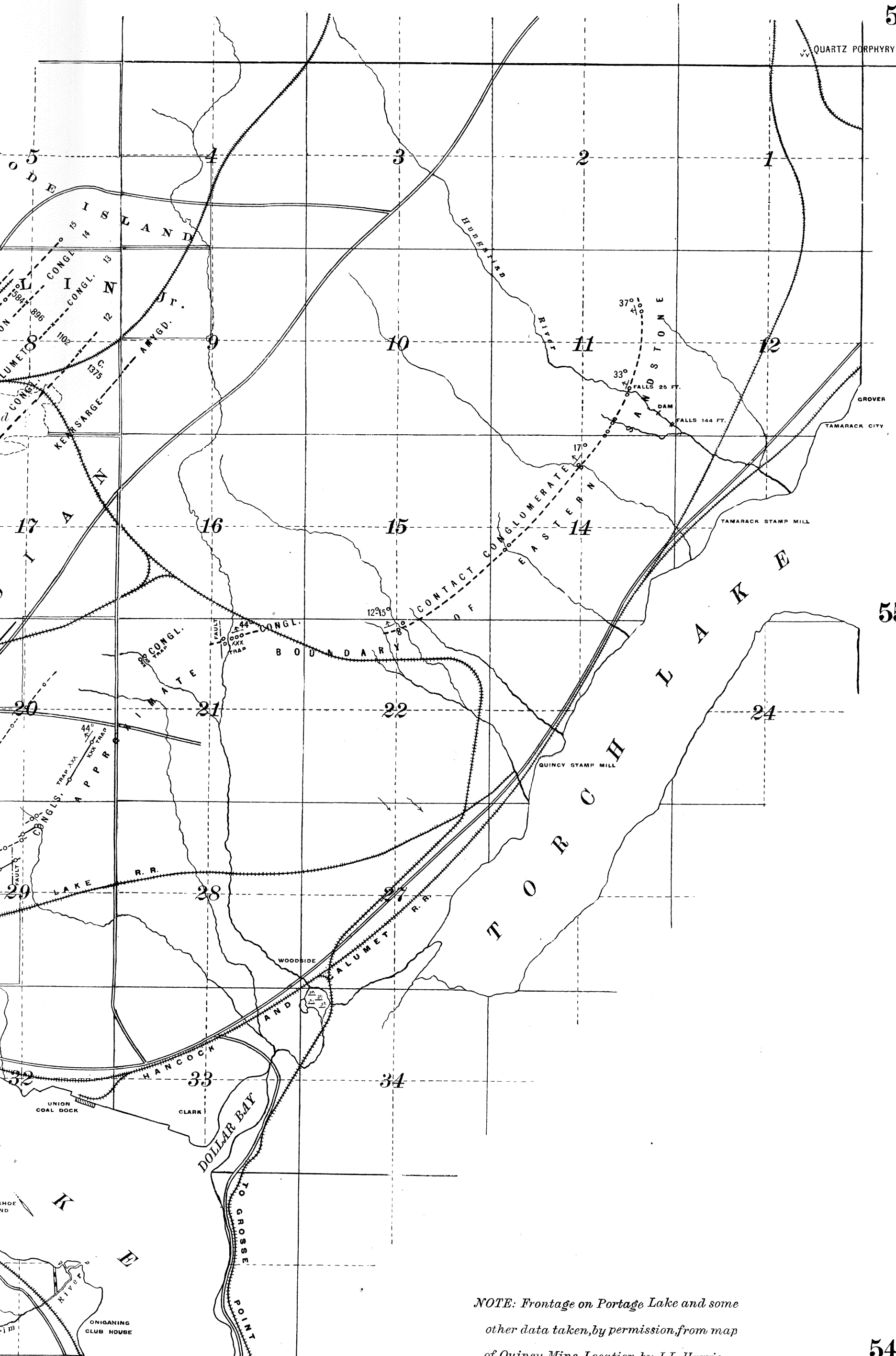


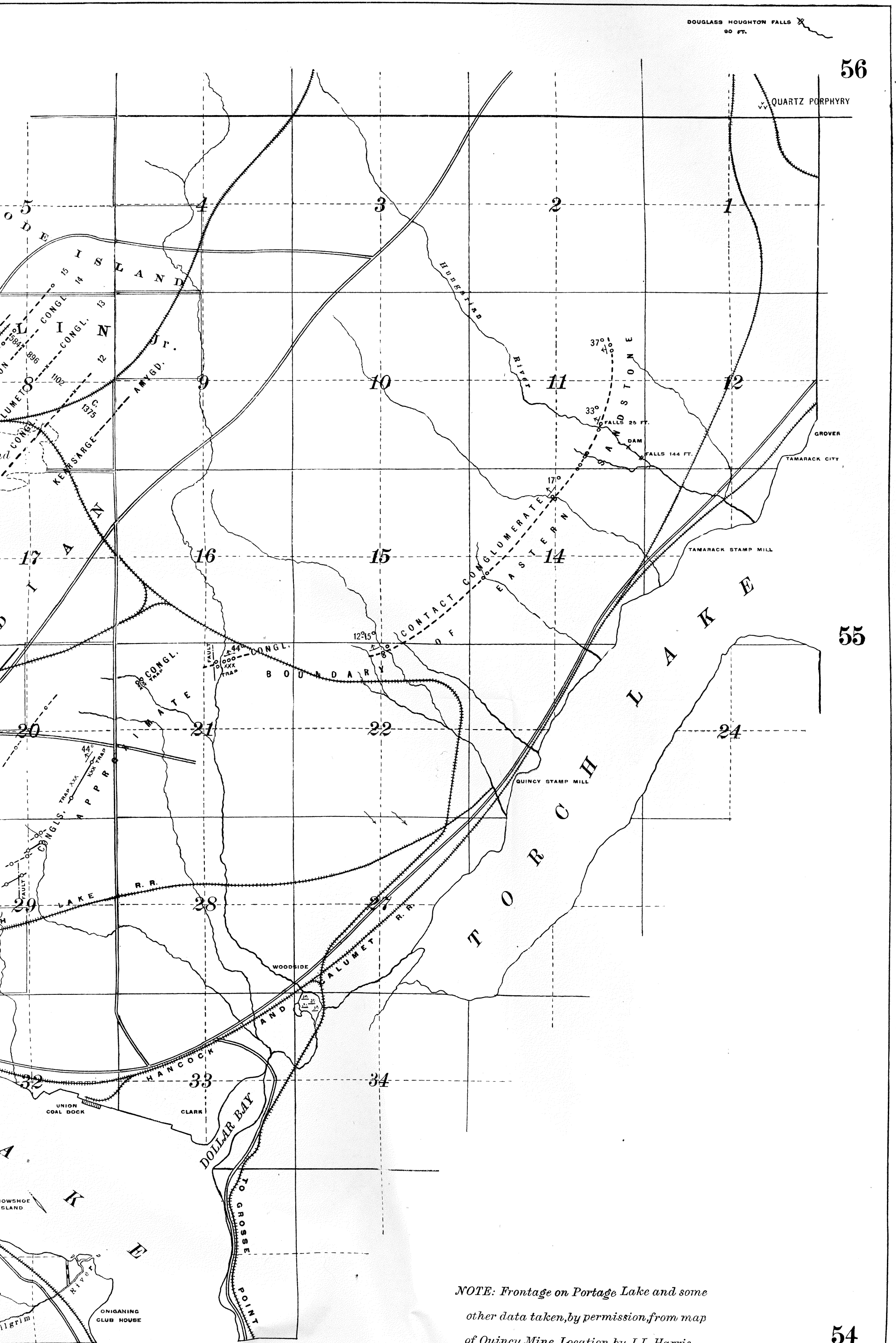
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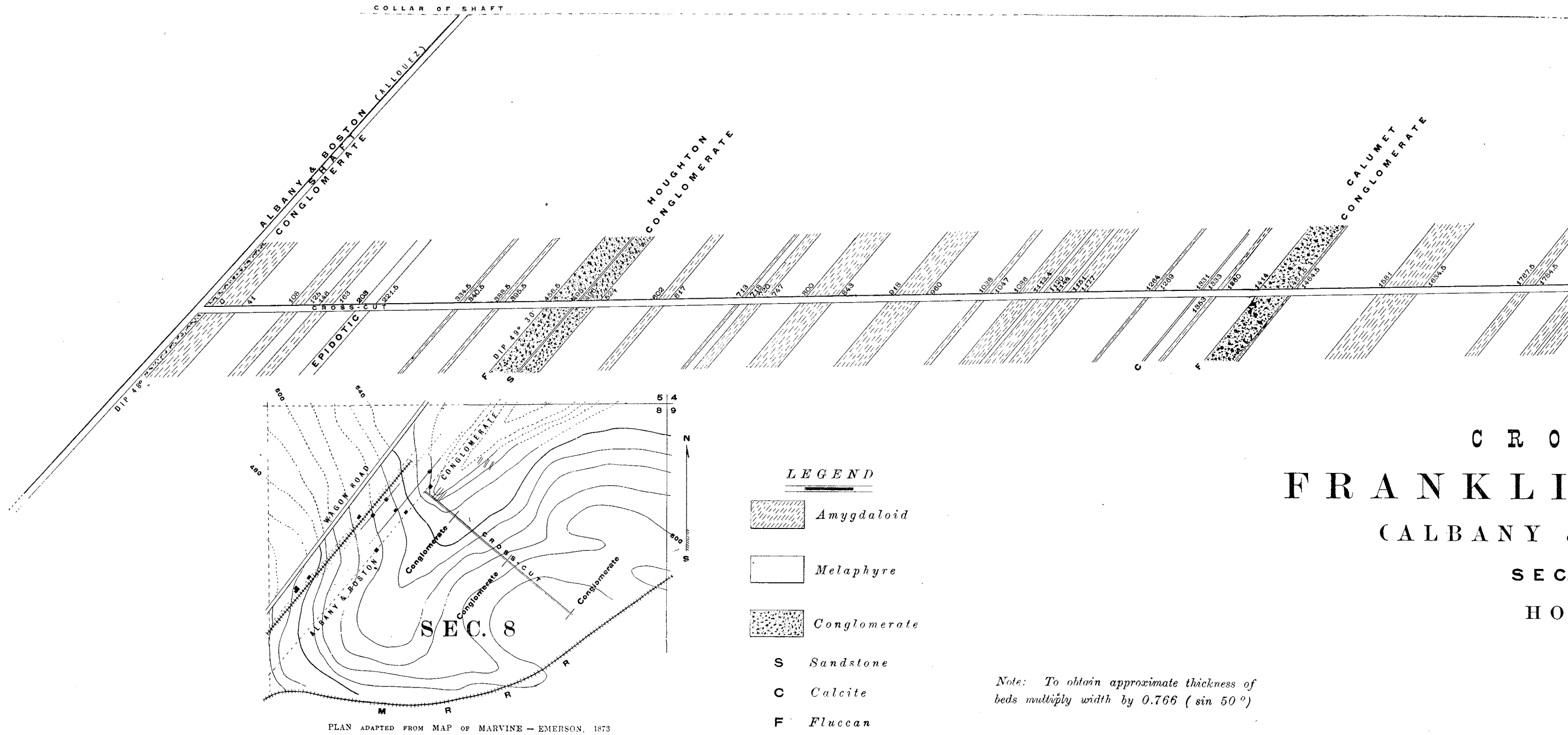
55

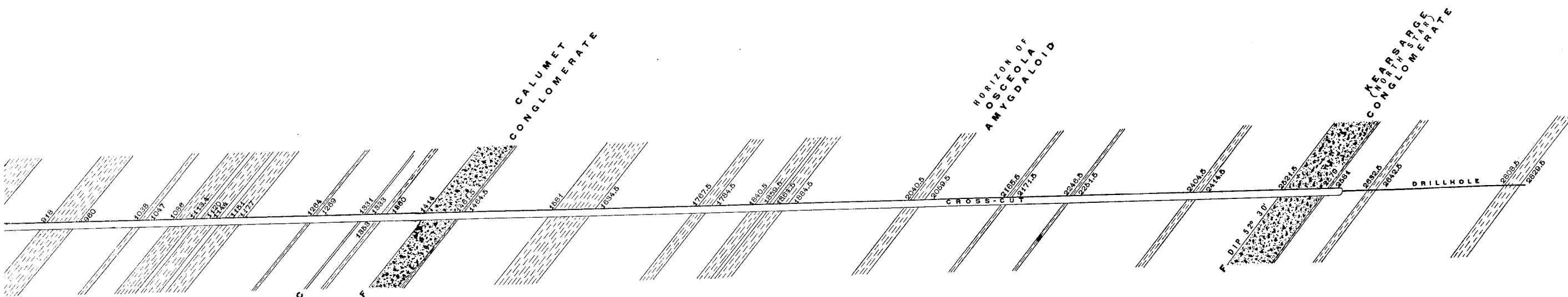


54







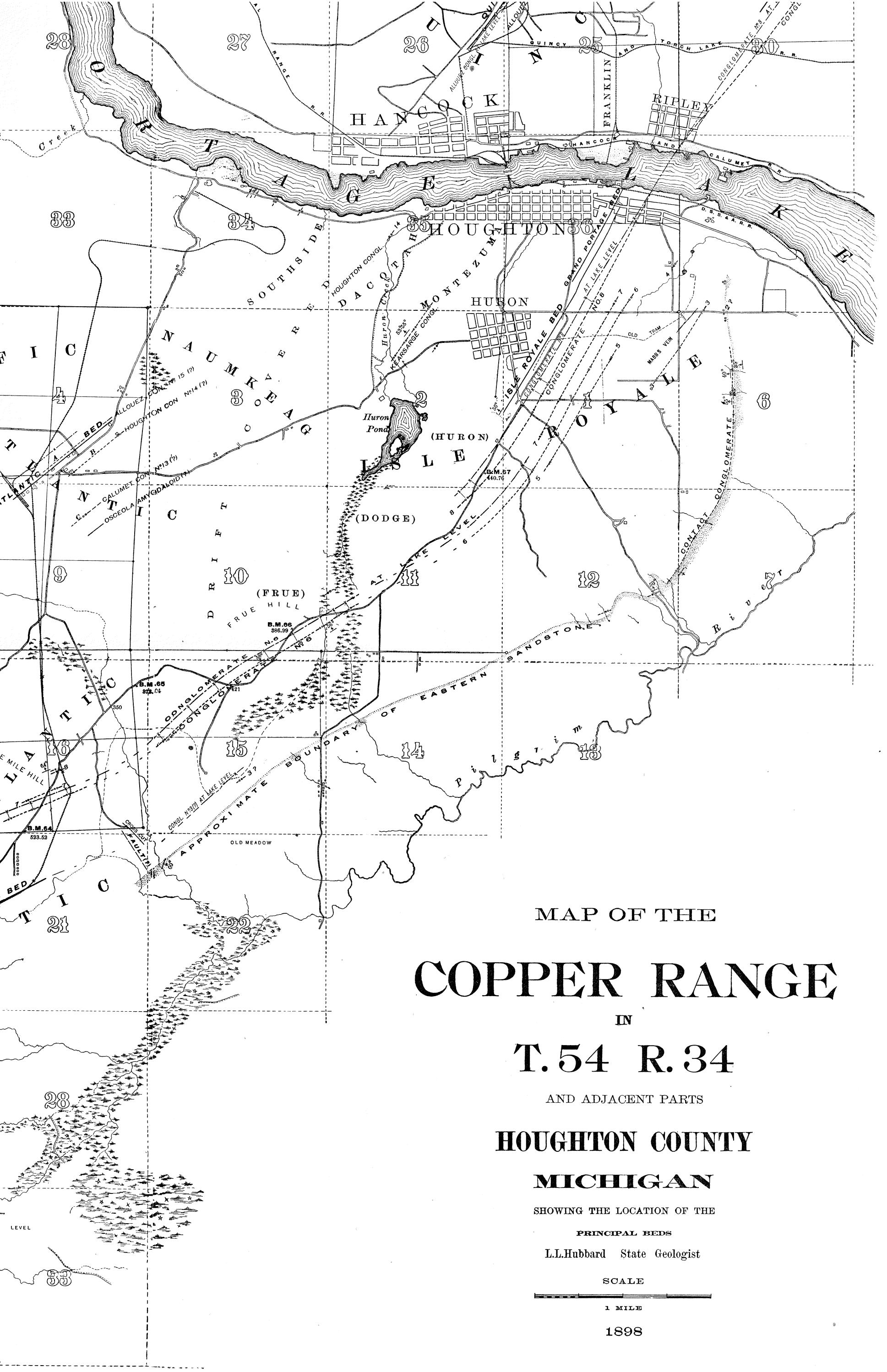


C R O S S - S E C T I O N
F R A N K L I N J U N I O R M I N E
(A L B A N Y & B O S T O N , P E N I N S U L A)
S E C . 8 , T . 5 5 N . R . 3 3 W .
H O U G H T O N C O U N T Y
M I C H I G A N

Note: To obtain approximate thickness of beds multiply width by 0.766 (sin 50°)



WILLIAM W. STOCKLY, TOPOGRAPHER



MAP OF THE

COPPER RANGE

IN

T.54 R.34

AND ADJACENT PARTS

HOUGHTON COUNTY

MICHIGAN

SHOWING THE LOCATION OF THE

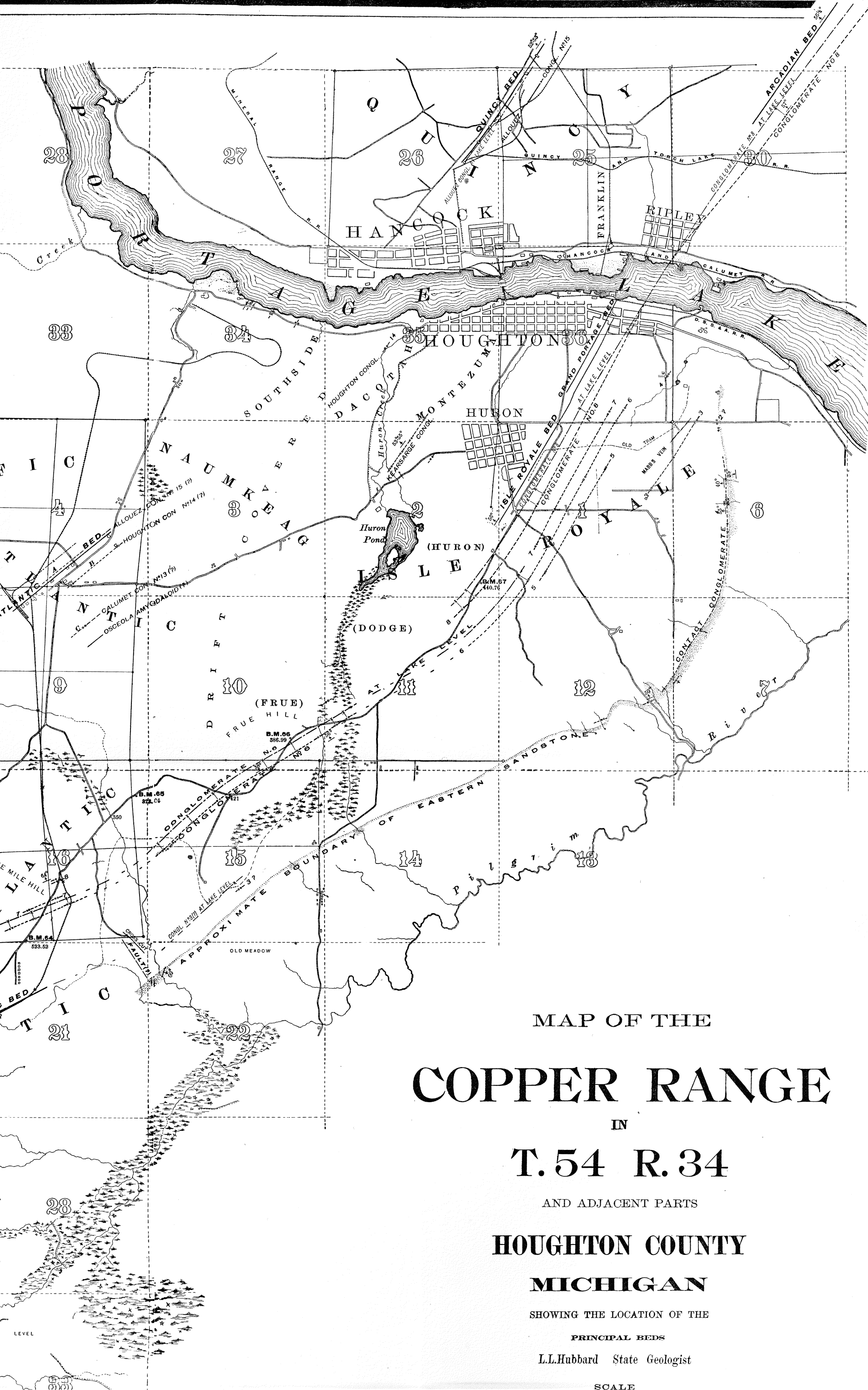
PRINCIPAL BEDS

L.L.Hubbard State Geologist

SCALE

1 MILE

1898



MAP OF THE

COPPER RANGE

IN

T.54 R.34

AND ADJACENT PARTS

HOUGHTON COUNTY

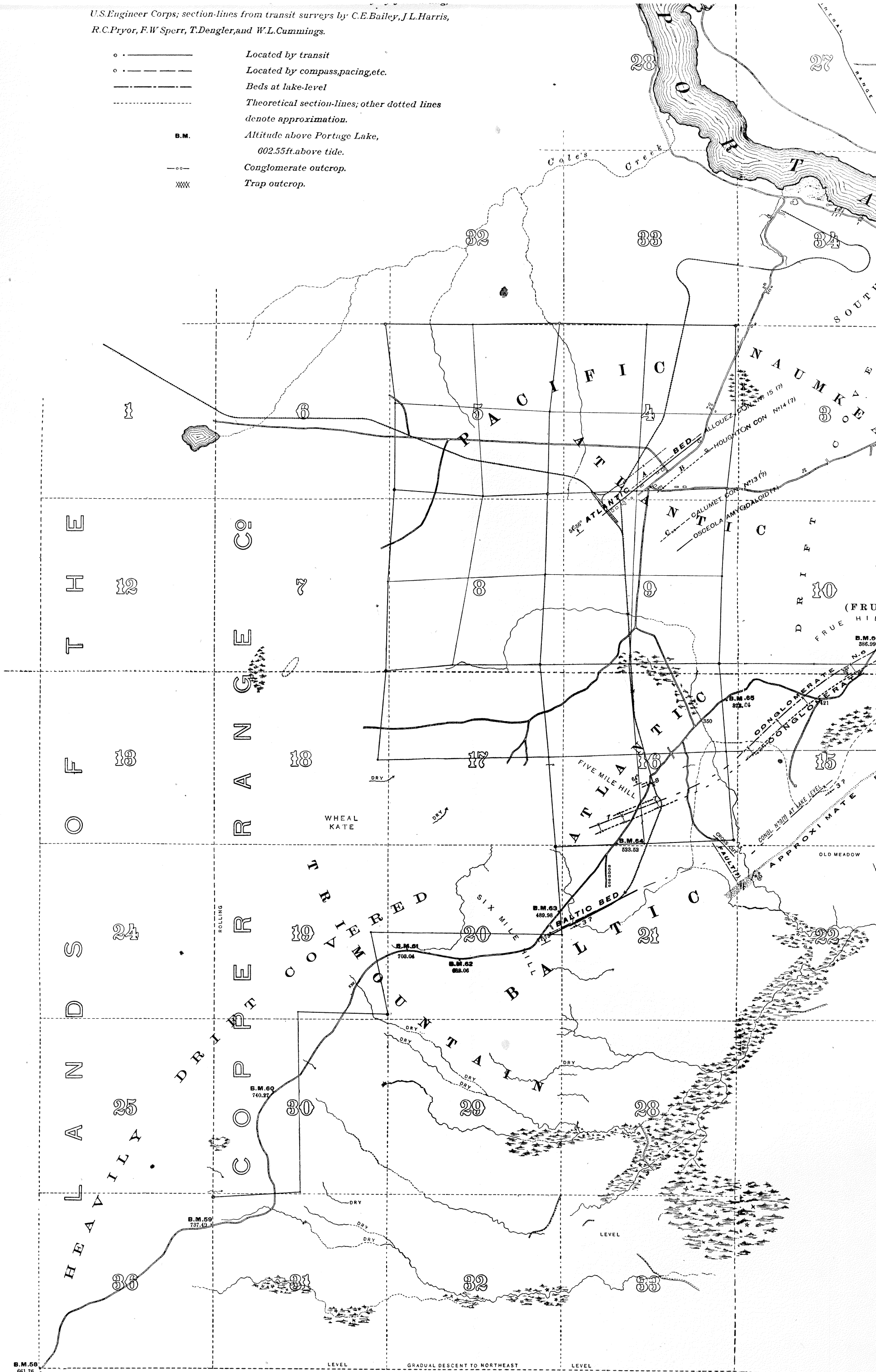
MICHIGAN

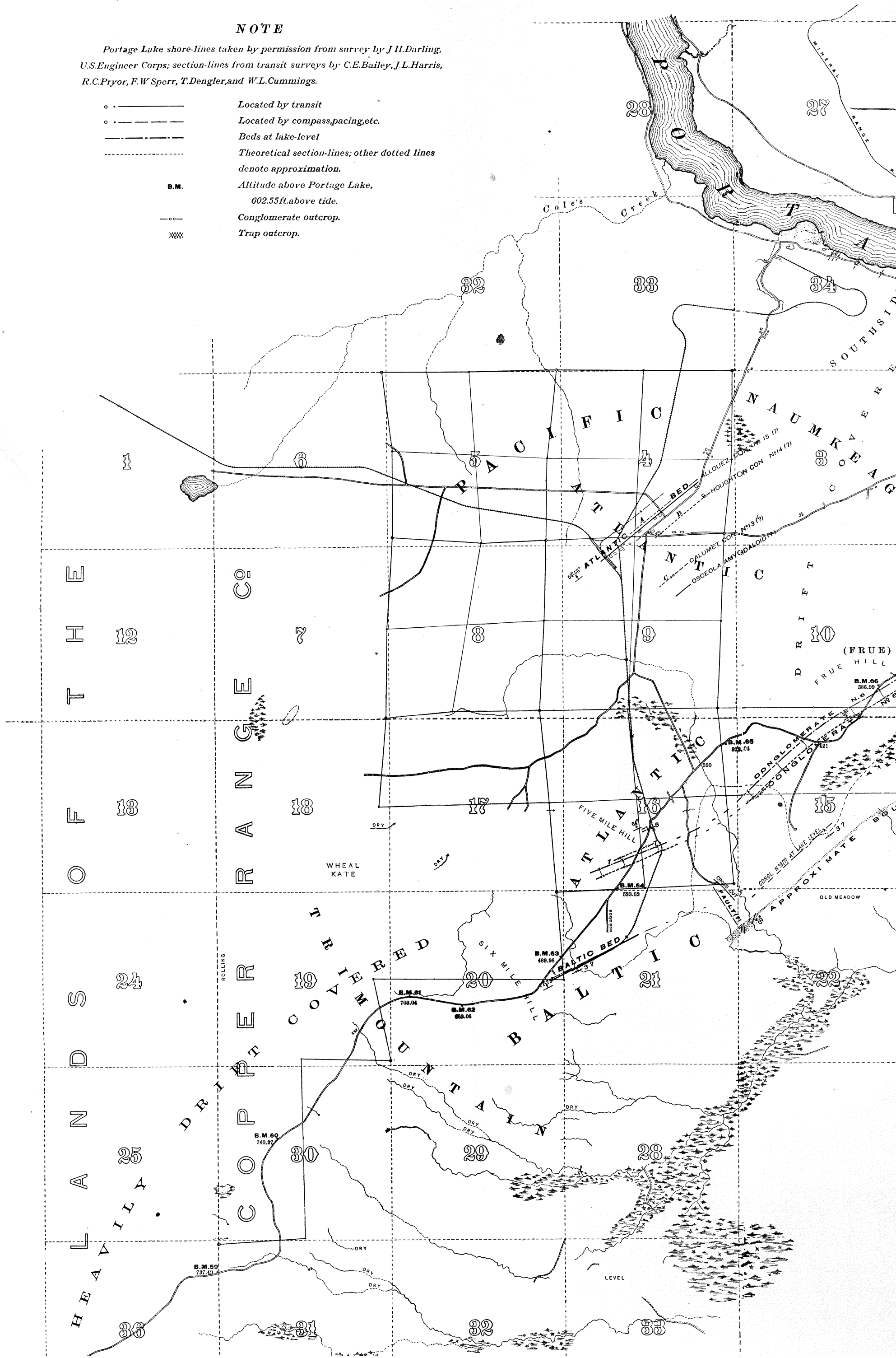
SHOWING THE LOCATION OF THE

PRINCIPAL BEDS

L.L.Hubbard State Geologist

SCALE





63

64

Latitude 48° North

65

Longitude 89° West

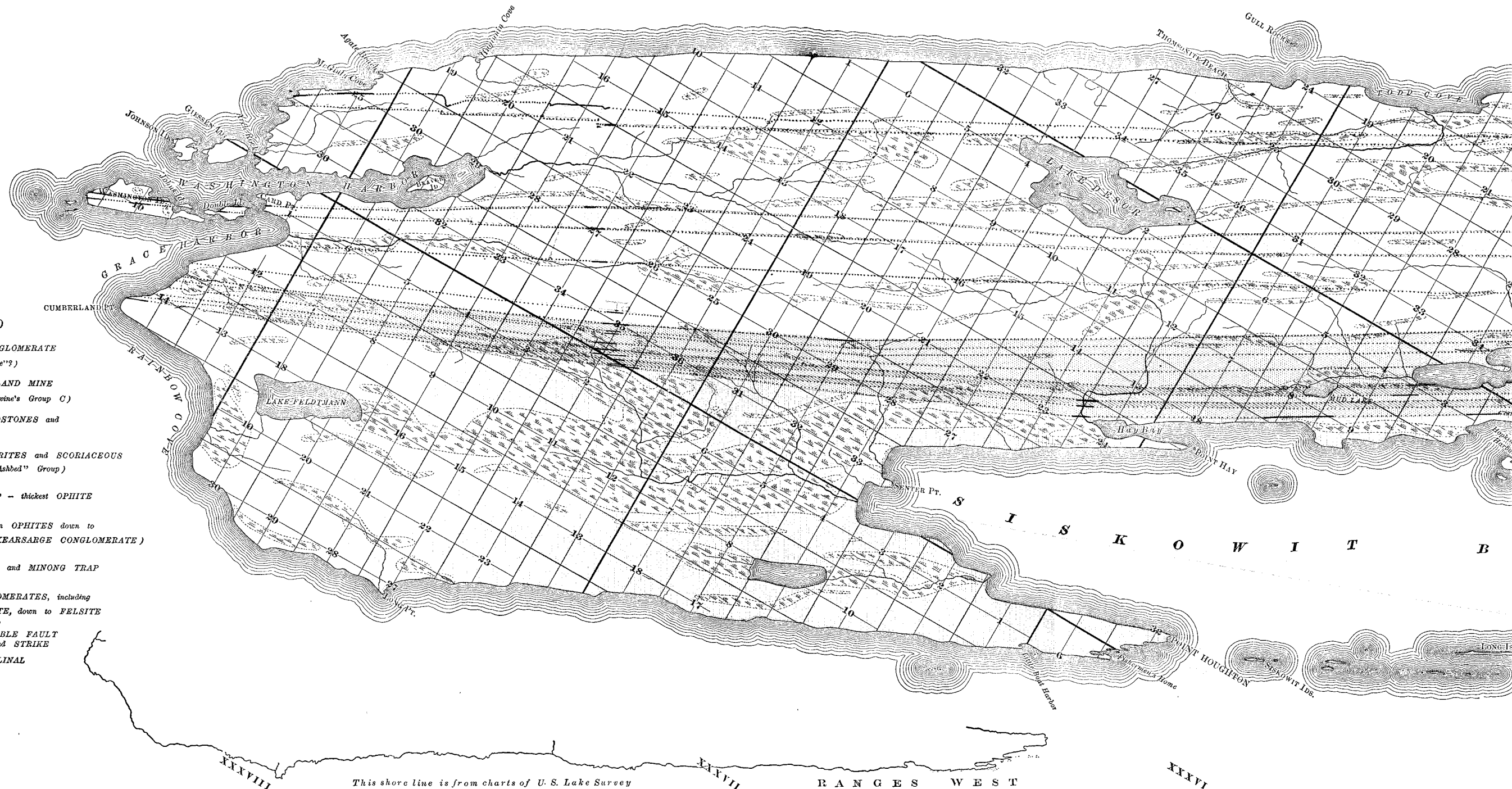
T O W N S H



LEGEND

- SANDSTONE and CONGLOMERATE
 ("The Great Conglomerate"?)
 OPHITES down to ISLAND MINE
 CONGLOMERATE (Marcine's Group C)
 INTERCALATED SANDSTONES and
 CONGLOMERATES
 MELAPHYRE PORPHYRITES and SCORIACEOUS
 CONGLOMERATES ("Ashbed" Group)
 "THE GREENSTONE" - thickest OPHITE
 AMYGDALOIDS and thin OPHITES down to
 MINONG BRECCIA (KEARSARGE CONGLOMERATE)
 MINONG PORPHYRITE and MINONG TRAP
 OPHITES and CONGLOMERATES, including
 HUGINNIN PORPHYRITE, down to FELSITE
 FAULT
 PROBABLE FAULT
 DIP and STRIKE
 ANTICLINAL

XXXIX



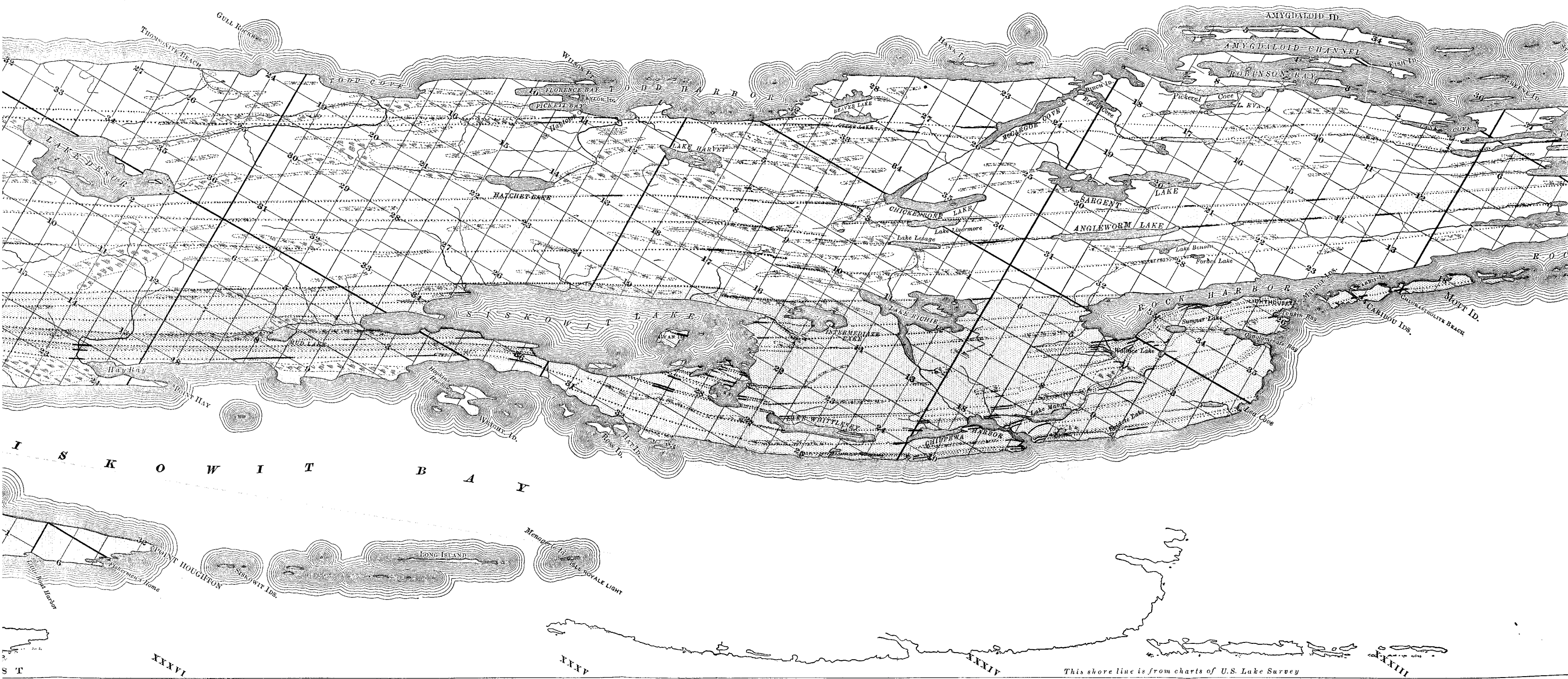
XXXVIII

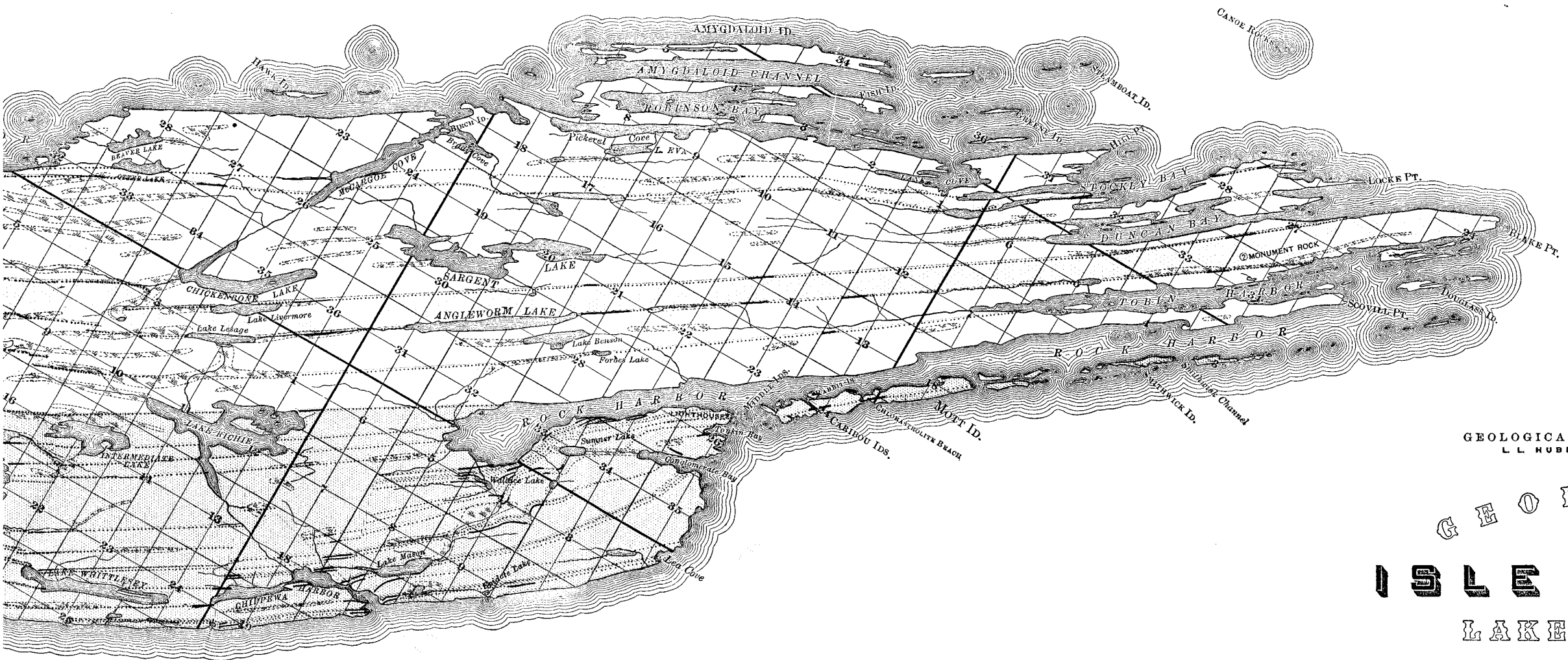
This shore line is from charts of U. S. Lake Survey

XXXVII

RANGES WEST

XXXVI

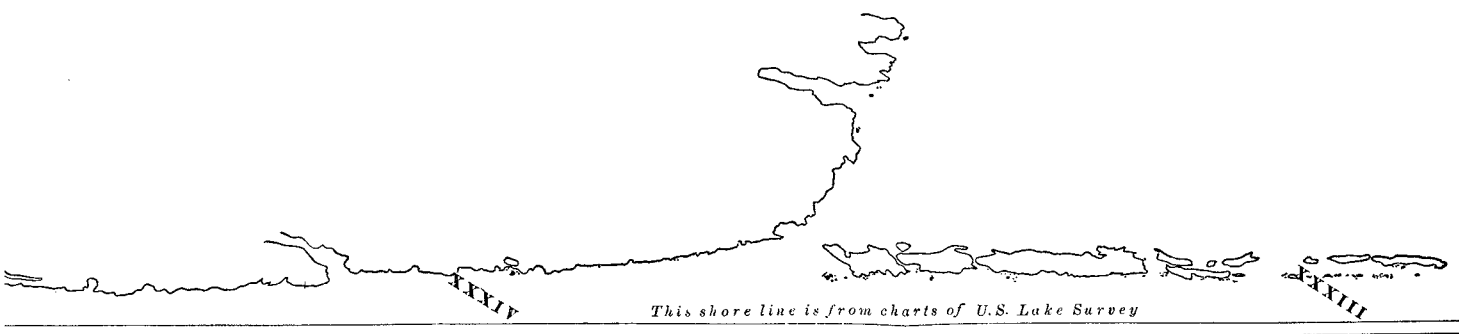
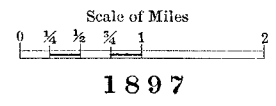




GEOLOGICAL SURVEY OF MICHIGAN
L. L. HUBBARD STATE GEOLOGIST

G E O L O G I C A L
MAP OF
I S L E R O Y A L E
LAKE SUPERIOR
M I C H I G A N

ALFRED C. LANE GEOLOGY
W. W. STOCKLY TOPOGRAPHY



This shore line is from charts of U.S. Lake Survey

XXXII