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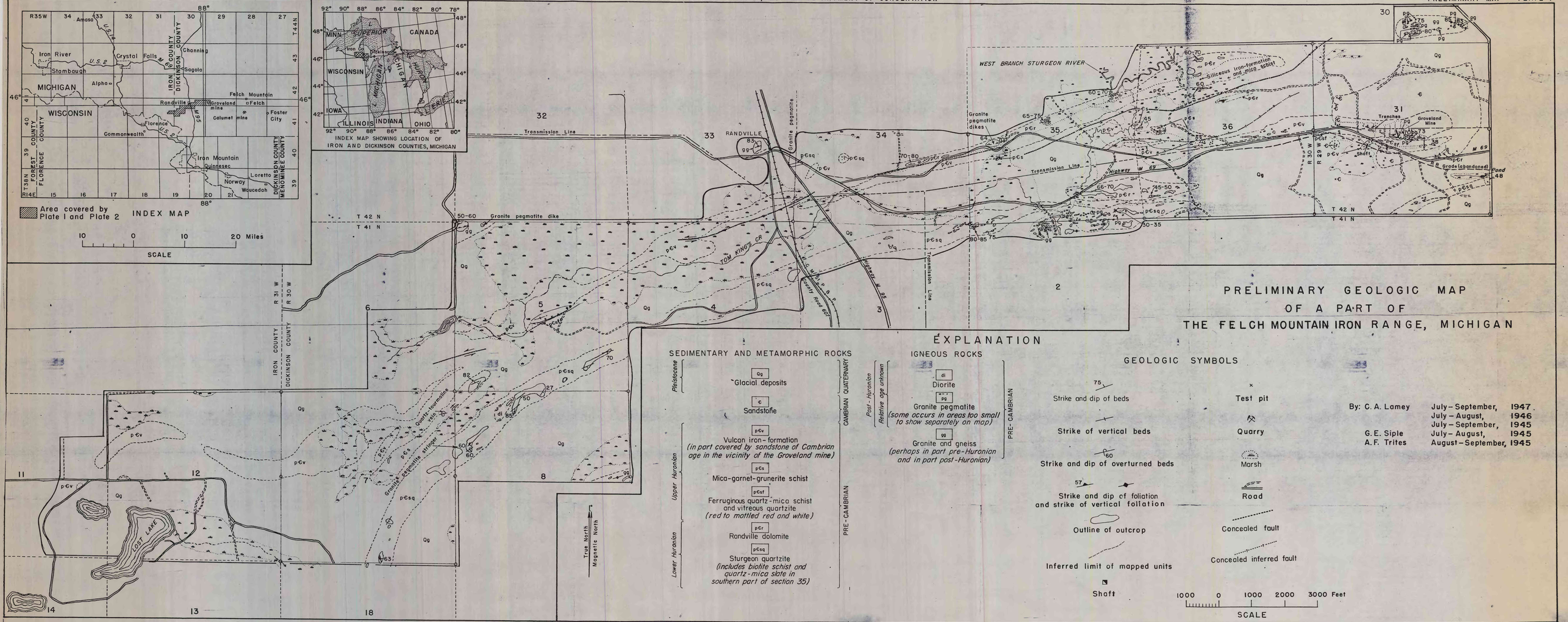
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED WITH THE COOPERATION OF THE
GEOLOGICAL SURVEY DIVISION, MICHIGAN DEPARTMENT OF CONSERVATION

STRATEGIC MINERALS INVESTIGATIONS
PRELIMINARY MAP PLATE I

PRELIMINARY GEOLOGIC MAP OF A PART OF THE FELCH MOUNTAIN IRON RANGE, MICHIGAN



EXPLANATION

SEDIMENTARY AND METAMORPHIC ROCKS

- Pleistocene — Qg — Glacial deposits
- Cambrian — Quaternary — c — Sandstone
- Upper Huronian — pCv — Vulcan iron-formation *(in part covered by sandstone of Cambrian age in the vicinity of the Groveland mine)*
- Upper Huronian — pCs — Mica-garnet-grunerite schist
- Upper Huronian — pCsf — Ferruginous quartz-mica schist and vitreous quartzite *(red to mottled red and white)*
- Lower Huronian — pCr — Randville dolomite
- Lower Huronian — pCsq — Sturgeon quartzite *(includes biotite schist and quartz-mica slate in southern part of section 35)*

Pre-Cambrian

IGNEOUS ROCKS

- Post-Huronian — di — Diorite
- Relative age unknown — pg — Granite pegmatite *(some occurs in areas too small to show separately on map)*
- pC — gg — Granite and gneiss *(perhaps in part pre-Huronian and in part post-Huronian)*

Pre-Cambrian

GEOLOGIC SYMBOLS

- 75 — Strike and dip of beds
- Strike of vertical beds
- 60 — Strike and dip of overturned beds
- 57 — Strike and dip of foliation and strike of vertical foliation
- Outline of outcrop
- Inferred limit of mapped units
- Shaft
- Test pit
- Quarry
- Marsh
- Road
- Concealed fault
- Concealed inferred fault

1000 0 1000 2000 3000 Feet
SCALE

By: C. A. Lamey — July–September, 1947; July–August, 1946
G. E. Siple — July–September, 1945
A. F. Trites — July–August, 1945; August–September, 1945