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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

PLATE I

EXPLANATION

QUATERNARY — Pleistocene

- Recessional moraine

PRE-CAMBRIAN

- Pegmatite and granite — *Coarse pink pegmatite; some even-grained pink to gray granite; xenoliths of amphibolite and gneiss*
- Slate — *Red and gray sericitic slate and graywacke*
- Tuffaceous sediments — *Bedded quartz-bearing rocks*
- Vulcan iron-formation — *Thin-bedded hematite, chert, and grunerite*
- Randville dolomite — *Pink to white dolomite, tremolitic marble, locally silicified*
- Sturgeon quartzite — *Pink vitreous quartzite*
- Hemlock greenstones — *Soft chloritic and sericitic schist*
- Porphyritic gneissic granite — *Coarse biotitic, locally chloritic, cut by amphibolite dikes*
- Gray gneiss complex — *Gray to pink gneiss, amphibolite, biotite, and other schists*

Geologic contact, approximately located or inferred

Fault, approximately located or inferred

Outcrop

Outcrop of massive rock

Strike and dip of beds

Strike and dip of foliation

Strike of vertical foliation

Strike and dip of cleavage

Bearing and plunge of lineation

Test pit, bottomed in rock

Quarry or mine

Swamp

AEROMAGNETIC ANOMALIES

- Over 1000 gammas
- 500-1000 gammas
- Under 500 gammas
- C_2 — C_2 Magnetic line — *Dashes indicate uncertain correlation*

GROUND MAGNETIC ANOMALIES

30 Isomagnetic contour with instrument scale divisions

Contours in secs. 2, 3, and 4, T.42N., R.30W., based on Superdip survey (pl. 2); all other contours based on dip needle data obtained from Michigan Geological Survey.

Iron-formation in southeast part of area after Lamey with modifications. Aeromagnetic data from profiles by J. R. Balsley, Jr.

True North / Magnetic North

ABBREVIATIONS

brc: breccia — qt: quartzite
dol: dolomite — silic: silicified
if: iron-formation

GEOLOGIC AND MAGNETIC MAP OF T.42N., R.30W. AND VICINITY
DICKINSON COUNTY, MICHIGAN

2000 0 2000 4000 6000 8000 10,000 Feet

SCALE

1951

This map is preliminary and has not been edited or reviewed for conformity with U. S. Geological Survey standards and nomenclature.

Geology by F. J. Pettijohn, 1951