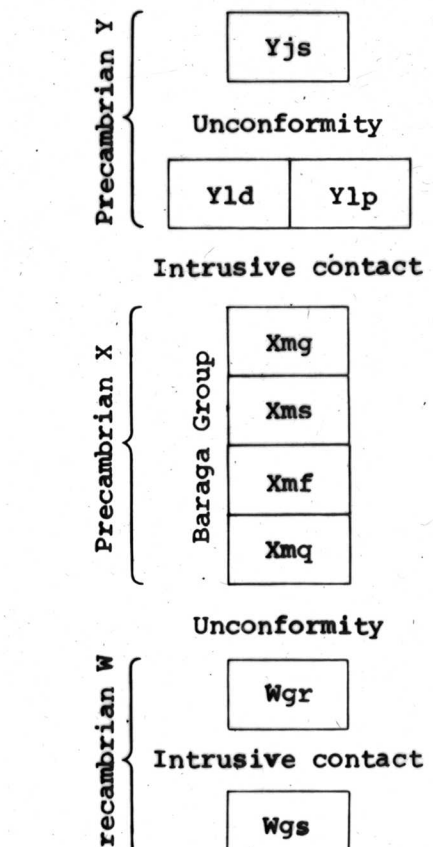


EXPLANATION

CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- Yjs** Jacobsville Sandstone--Light brown to red sandstone. Commonly well bedded with abundant cross beds.
- Ylp** Peridotite (Lower Keweenaw)--Medium grained massive, weakly serpentinized peridotite.
- Yld** Diabase (Lower Keweenaw)--Fresh to weakly altered massive diabase. Occurs in dike with reversed magnetic polarity and is traced from the aeromagnetic pattern.
- Xmg** Michigamme Formation--Upper graywacke member--graywacke, arkosic quartzite, slate. Graded bedding is common in the southwest part of map. Finer grained units have well developed cleavage.
- Xms** Michigamme Formation--Lower slate member--black to gray slate and argillite. Locally abundant graywacke. Mostly black carbonaceous pyritic slate. Where it is shown in contact with Wgr it contains basal conglomerate and quartzite too thin or too poorly exposed to map. Contains phosphate-rich beds in Dead River Basin and possibly elsewhere.
- Xmf** Michigamme Formation--Iron-formation member--lean banded cherty carbonate iron-formation. Locally contains phosphate-rich beds. In areas where it is too thin or too poorly exposed to map individual occurrences are indicated by the symbol "fe".
- Xms** Michigamme Formation--Basal quartzite member--white, gray, and tan massive to thick bedded quartzite. Discontinuous unit of quartz pebble and granite-pebble conglomerate and arkose at base.
- Wgr** Granitic complex--Gneissic to massive granite, migmatite, amphibolite.
- Wgs** Volcanic complex--Massive and layered mafic and intermediate volcanic rocks containing undivided metagabbro and intrusive granitic rocks.

MAP SYMBOLS

- Strike and dip of bedding
- Strike of vertical bedding
- Strike and dip of cleavage
- Strike of vertical cleavage
- Bedrock outcrop. Abundant outcrops of Precambrian W not shown.
- X Location of sample for which hand specimen and thin section description is available
- Crestline of positive aeromagnetic anomaly
- Contact
- Fault
- P Phosphate occurrence

This map was compiled principally from unpublished data from the Geological Survey Division of the Michigan Department of Natural Resources. Most of that data was collected during the early 1900's. Other information is from recent mapping by the U.S. Geological Survey. The older data provides locations by pace and compass from section corners. Because of possible errors in location or plotting, the actual location of outcrops may not coincide exactly with the topographic location shown.

The structural interpretation has not been verified in the field but is consistent with the data, the structural style known in adjacent areas, and the topographic expression of structure common in adjacent areas.