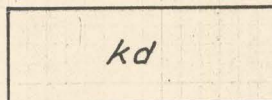


by

Jacob E. Gair

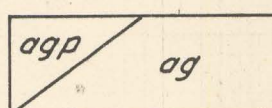
Explanation

Upper
Precambrian
(Keweenaw)



Diabase

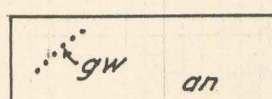
---Intrusive contact---



Goodrich Quartzite

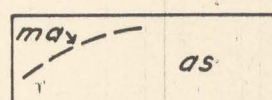
Quartzite and conglomerate. Lens of mafic pyroclastic rock (agp) contains sandy bed and fragments of iron-formation

--- Local unconformity or disconformity ---



Negaunee Iron-Formation

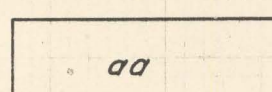
Locally contains interbeds of graywacke (gw)



Siamo Slate

Middle
Precambrian
(Animikie
Series)

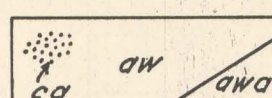
Slate, graywacke, and arkose. Locally contains thin interbeds of sideritic iron-formation. Principal iron-formation member shown by magnetic anomaly (ma)



Ajibik Quartzite

White-weathering vitreous quartzite and sericitic quartzite. Locally contains conglomerate at base

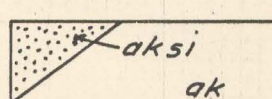
---Unconformity---



Weve Slate

Slate, sericitic and chloritic quartzite, and conglomerate (cg). Some conglomerate contains probable ice-rafted pebbles and cobbles. Lens of andalusite-chloritoid-cordierite (?) schist (awa) in sec. 23, T. 47 N., R. 26 W.

Unconformity between Weve Slate and Palmer Gneiss or Compeau Creek Gneiss

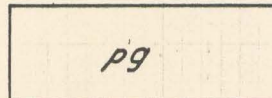


Kona Dolomite

aksi, silicified dolomite

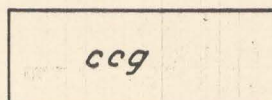
---Unconformity or fault contact ---
Not mapped in Palmer quadrangle

Lower
Precambrian



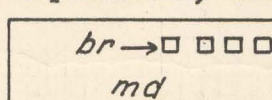
Palmer Gneiss

Sheared, comminuted, sericitized, dolomitized, chloritized, or silicified granitic and amphibolitic gneiss



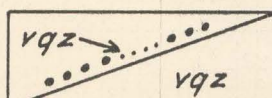
Compeau Creek Gneiss

Granitic gneiss, amphibolite, biotite schist, migmatite, pegmatite



Metadiabase

Dikes and sills of one or more ages
br, local breccia zone



Vein quartz

Thin veins shown by dot pattern or only by letter symbol (vqz)



Outcrop or outcrop area, dashed where uncertain

Contact, queried where position highly uncertain

Fault, queried where position or existence highly uncertain
U, upthrown side; D, downthrown side

Apparent horizontal offset along small fault

Inferred trend of formation

Strike and dip of bedding in metasedimentary rock and layers in gneiss

Approximate strike and dip of wavy beds

Strike of vertical beds

Horizontal beds

Strike and dip of beds; strike and plunge of crinkles in beds

Strike and dip of foliation

Strike of vertical foliation

Strike and dip of joints

Strike of vertical joints

Strike and dip of vein

Strike and plunge of minor fold axis

Trend and plunge of anticlinal axis

Trend and plunge of synclinal axis

Top direction shown by cross bedding

Diamond drill hole (vertical); Inclined diamond drill hole, showing direction

Goodrich Quartzite

Mafic intrusive rock

Negaunee Iron-Formation

Granitic gneiss

Ajibik Quartzite

Key to formations or lithologies encountered at bedrock surface in diamond drill holes. Core or logs of drill holes shown without key had not been examined prior to open filing of quadrangle map.

Test pit

Group of test pits

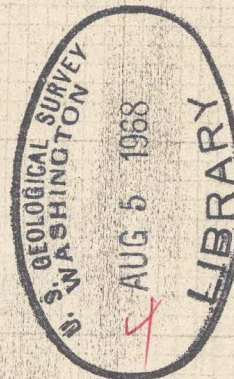
Trench

Mine shaft

Mine shaft at diamond drill site

U.S. Geological Survey
OPEN FILE MAP

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



Michigan (Palmer quad.) Geol. 1:12,000. 1962 sheet 2, cop. 1.



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