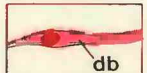


EXPLANATION

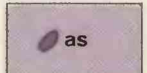
Exposed areas shown by darker shade



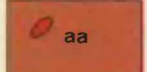
**Diabase**  
Mainly massive dark-gray medium-grained dike rock having pronounced diabase texture. Black to dark reddish brown on weathered surfaces. Rock commonly is inversely magnetized and causes negative magnetic anomalies.



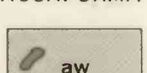
**Metadiabase and metagabbro**  
Green to dark-green generally medium- to coarse-grained rock. Form dikes and irregular-shaped bodies. Many thin dikes in Compeau Creek Gneiss are fine grained. Locally the coarse-grained metadiabase or metagabbro is green and white from the intergrowth of hornblende and feldspar. Queried metadiabase in SW 1/4 sec. 2, T. 47 N., R. 25 W., may be highly altered diabase of Keweenaw age.



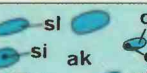
**Siamite**  
Laminated and nonlaminated dark-gray quartzite, sericitic or sericitic-chloritic slate, and dark-gray generally thin interbedded quartzite. Slate commonly weathers to ferruginous material having rusty-brown colors.



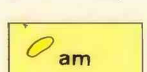
**Ajikite**  
Vitreous medium-grained thin- to thick-bedded quartzite and some thin interbeds of sericitic or sericitic-chloritic slate and quartzitic siltite. Weathers light gray, pink, pale reddish brown, or tan. Locally has reddish-brown or yellowish-brown ferruginous spots, 1/4-1/2 inch in diameter. Matrix contains minor amounts of sericite and hematite. Thin bed of conglomerate at base of formation in SE 1/4 sec. 6, T. 47 N., R. 25 W. Maximum thickness 650 feet.



**Unconformity**  
**Wewe Slate**  
Gray and greenish-gray laminated and massive (non-laminated) sericitic-chloritic quartzite. Locally chloritic material is in granules, and in a few places there are vague textures suggestive of volcanic and pyroclastic materials. Slate in a few places is rich in leucocene and/or rutile. Some of the slate weathers to yellow-brown or rusty ferruginous rock. Maximum thickness 900 feet.



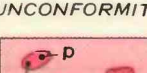
**Kona Dolomite**  
Mainly tan, salmon, pinkish- or pale-gray fine- and medium-grained massive dolomite or thinly laminated chert and dolomite. Dolomite layers commonly contain scattered detrital quartz. Maroon, gray, and green sericitic slate in lower part of formation. Maximum thickness 1,000-1,200 feet. **sl**, red quartzite and dolomitic quartzite in thin layers; locally crossbedded. **st**, orange and brown laminated siltite in thin layers. **a**, sigmoid structures common in places. **si**, silicified locally. **qv**, thick quartz vein, near E 1/2 cor., sec. 13, T. 47 N., R. 26 W.



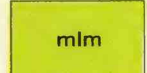
**Mesnard Quartzite**  
Vitreous medium-grained thin- to thick-bedded quartzite. Weathers white to light pink. Locally brecciated; secondary hematite cement breccia fragments. Locally crossbedded. Maximum thickness 500-700 feet.



**Enchantment Lake Formation**  
Conglomerate, arkose, sericitic slate, quartz wacke, sericitic quartzite, and quartzite. All lithologies not found in any one part of the section. Maximum thickness 500 feet.



**Compeau Creek Gneiss**  
Foliated light-colored tonalite and granodiorite, and small amounts of monzonite, quartz monzonite, and granite. Mainly pink or salmon. Fine streaky layering in many places. Widespread but small amounts of amphibolite and well-layered amphibolite gneiss. Locally amphibolite or tonalite rich in hornblende or biotite is abundant. Exceedingly rich in quartz in places close to south margin of synclinorium. Thickness unknown. **p**, locally silicified, shown by stippled pattern. **sl**, pegmatite. **qv**, quartz veins.



**Mona Schist**  
Projected into Sands quadrangle from Marquette quadrangle. Not exposed in Sands quadrangle.

**Limit of outcrop or outcrop area**  
Varieties of rock too small within exposure to show at map scale indicated by dot at point of observation; letter indicates type of rock.

**Contact**  
Long dashed where approximately located; short dashed where inferred; queried where doubtful.

**Fault**  
Short dashed where inferred; queried where doubtful; dotted and queried where hypothetical. **U**, upthrown side; **D**, downthrown side.

**Anticline**  
Showing approximate trace of axial plane and direction of plunge of axis.

**Syncline**  
Showing approximate trace of axial plane and direction of plunge of axis.

**Plunge of fold axis**  
Strike and dip of beds.

**Strike and dip of beds**  
Includes strike and dip of layers in gneiss, and some possibly overturned beds.

**Strike of vertical layers in gneiss**  
**Horizontal beds**

**Top direction shown by crossbedding**  
Strike and dip of foliation in lower Precambrian rocks and of cleavage in middle Precambrian rocks.

Strike of vertical foliation in lower Precambrian rocks and of vertical cleavage in middle Precambrian rocks.

Strike and dip of vein or dike.

Bearing and plunge of lineation.

Strike and dip of foliation plunge of lineation.

Strike of vertical foliation showing plunge of lineation.

Strike and dip of foliation and double lineation.

Strike and dip of joints.

Strike of vertical joints.

Note: Structure symbols not within limits of outcrop refer to nearest outcrop.

Test pit.

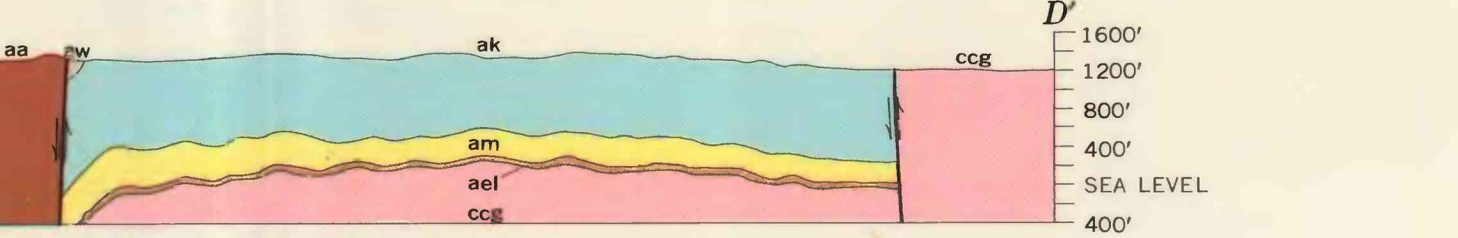
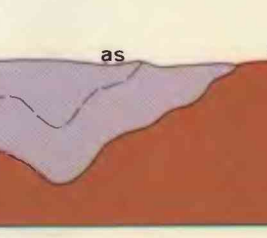
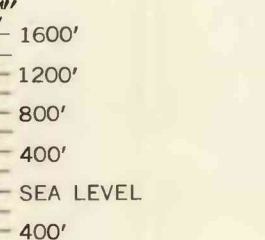
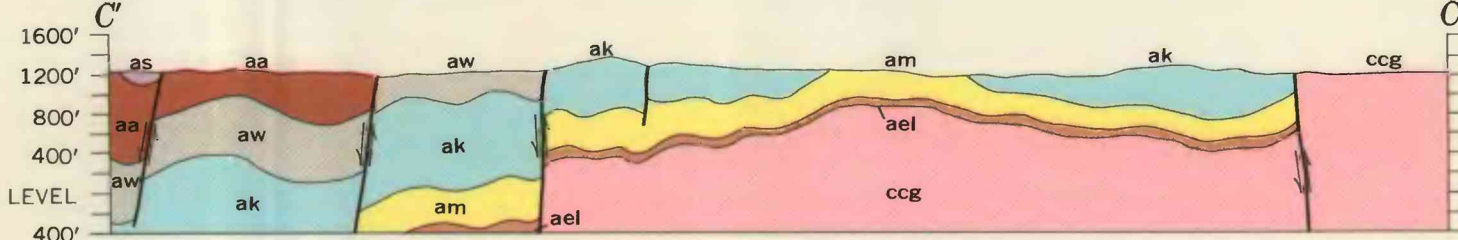
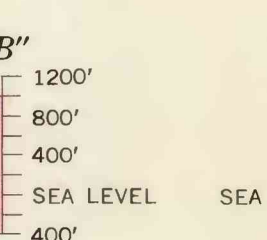
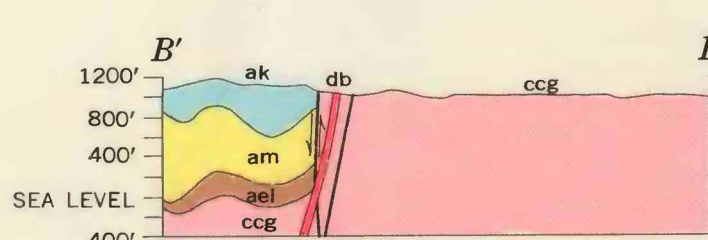
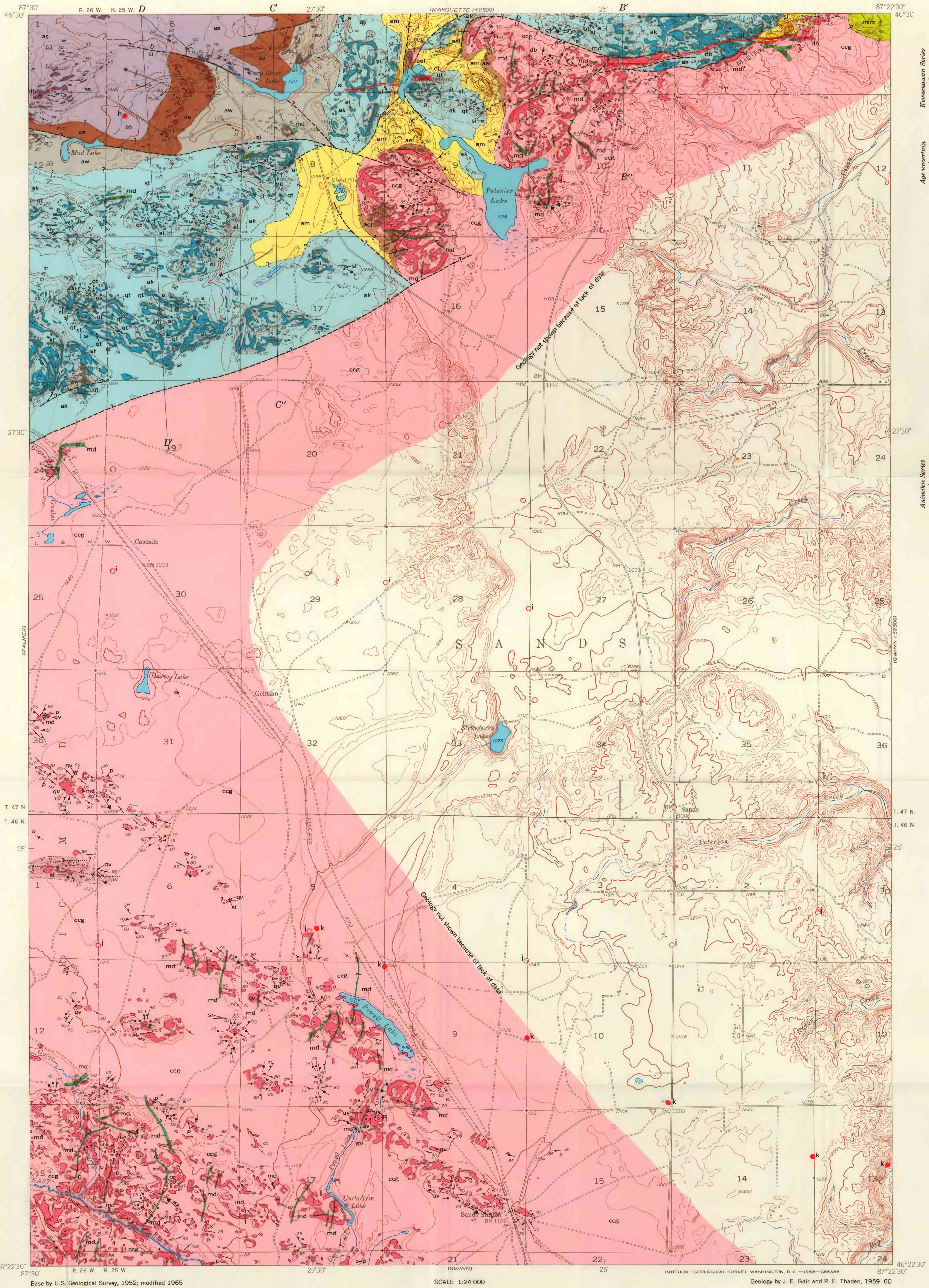
Shallow exploration shafts in sec. 2, T. 47 N., R. 25 W.

Quarry.

Abandoned quarry.

Crest of positive aeromagnetic anomaly. Letter refers to anomaly in profiles on plate 7.

Crest of negative aeromagnetic anomaly. Letter refers to anomaly in profiles on plate 7.



GEOLOGIC MAP AND SECTIONS OF THE SANDS QUADRANGLE  
MARQUETTE COUNTY, MICHIGAN