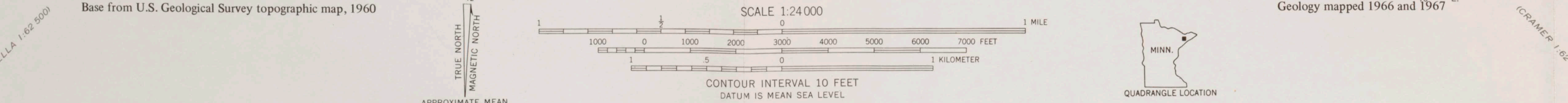




EXPLANATION

- b**
Basalt
- grb** **grh** **gr** **gg**
Felsic and intermediate rocks
gr, granite, fine- to coarse-grained. Locally contains abundant biotite (grb) or hornblende (grh)
gg, granogabbro, medium- to coarse-grained. Contains cumulus plagioclase (An₅₀), K-feldspar, and quartz (0-10%)
- qd**
Quartz diorite and diorite
qd, quartz diorite, fine-grained; contains cumulus plagioclase (An₄₀₋₄₅), subpoikilitic biotite and hornblende (10-30%), anhedral opaque oxides, and interstitial quartz (0-10%)
- mn** **mg**
Mylonite Microgabbro
Fine-grained; contains cumulus plagioclase (An₅₀₋₅₈) and augite, poikilitic to subpoikilitic hypersthene, and opaque oxides; grades into microgabbro Fine-grained; contains cumulus plagioclase (An₅₄₋₅₈) and olivine (0-15%), interstitial augite and hypersthene (10-35%), and opaque oxides; commonly has granoblastic texture
- og** **pg** **t**
Gabbro Troctolite
og, ophitic gabbro, medium-grained cumulus plagioclase (An₅₅₋₆₅), interstitial poikilitic augite and subpoikilitic magnetite Medium-coarse grained; contains cumulus plagioclase (An₅₅₋₆₅) subpoikilitic cumulus olivine, poikilitic interstitial augite (10%). Plagioclase constitutes less than 70% of rock
pg, poikilitic olivine, hypersthene, augite gabbro, coarse-grained; cumulus plagioclase (An₅₇₋₆₀) and poikilitic olivine, interstitial poikilitic augite and hypersthene, anhedral magnetite
- ang** **ant** **pgan** **gan** **tan**
Anorthositic rocks
ang, anorthositic gabbro, coarse-grained; contains cumulus plagioclase (An₅₇₋₆₇) and olivine and interstitial poikilitic augite and opaque oxides. Plagioclase constitutes 70-80% of rock
ant, anorthositic troctolite, coarse-grained; contains cumulus plagioclase (An₅₇₋₆₇) and olivine and interstitial poikilitic augite and opaque oxides. Plagioclase constitutes 70-80% of rock
gan, gabbroic anorthosite, coarse-grained; contains cumulus plagioclase (An₄₈₋₇₀) and olivine, interstitial poikilitic augite, and opaque oxides. May be pegmatitic (pgan). Plagioclase constitutes 80-90% of rock
tan, troctolitic anorthosite, coarse-grained; contains cumulus plagioclase (An₄₈₋₇₀) olivine, interstitial poikilitic augite and opaque oxides. Plagioclase constitutes 80-90% of rock
- an**
Anorthosite
Coarse-grained; contains cumulus plagioclase (An₅₀₋₆₂)

- Approximate area of outcrop
- Contact
Long dash where inferred; short dash where gradational; dotted where concealed
- Strike and dip of foliation
- Strike of vertical foliation
- Horizontal foliation



GEOLOGIC MAP OF THE PERENT LAKE QUADRANGLE, LAKE COUNTY, MINNESOTA

By
D. M. Davidson, Jr.
1969

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