



EXPLANATION

- g**  
Diabase  
Dominantly gabbro; dikes have fine-grained margins
- gb gmb gmbm gu**  
Giants Range Granite  
gb, pink, moderately foliated, medium-grained biotite granite  
gmb, gray, massive, fine-grained muscovite-biotite adamellite and granite  
gmbm, gray, fine-grained muscovite-biotite granite containing abundant inclusions of schist  
gu, granitic rocks, undivided type uncertain
- dph**  
Diorite, tonalite, and monzonite  
Contains biotite, pyroxene, and hornblende; inferred from aeromagnetic and gravity data
- ms**  
Metasedimentary rocks  
Inferred from aeromagnetic and gravity data
- mv**  
Mafic metavolcanic rocks  
Dominantly pillowed and massive mafic lavas and metadiabase; outcrops in Section 10, T.60N-R.22W. are largely biotitic metadiabase

x

Small outcrop

--- Contact  
 - - - - Long dash where approximately located;  
 - - - - Short dash where inferred

↘ Strike and dip of foliation

↕ Strike of vertical foliation

↗ Bearing and plunge of lineation

MIDDLE  
PRECAMBRIAN

LOWER  
PRECAMBRIAN

Base from U.S. Geological Survey topographic map, 1964  
 SCALE 1:24,000  
 Geology mapped 1968 and 1969

RECONNAISSANCE GEOLOGIC MAP OF SIDE LAKE QUADRANGLE, ITASCA AND ST. LOUIS COUNTIES, MINNESOTA

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1974