CANADA
DEPARTMENT OF MINES AND RESOURCES
MINES AND GEOLOGY BRANCH
BUREAU OF GEOLOGY AND TOPOGRAPHY
GEOLOGICAL SURVEY

LEGEND

Note: Areas not patterned are unexplored.

ARCHEAN

*Biotite granite, hornblende granite, porphyritic biotite granite, hornblende syenite; minor diorite and syenite; some paragneiss; **A**, porphyritic syenite, hornblende syenite, amphibolite; **B**, muscovite granite, pegmatite*

*A, BROADBACK SERIES: greywacke, arkose, conglomerate, quartz-mica schist, garnet schist, cordierite schist, hornblende schist; **B**, hybrid zone of sedimentary and granitic material*

Pillowed andesite, rhyolite, tuff, agglomerate; some gabbro; minor sedimentary rocks;
A, LAKE EVANS SERIES: pillowed andesite, rhyolite, porphyritic lava, tuff, agglomerate; some gabbro, minor sedimentary rocks

Bedding (inclined, vertical)
Bedding (direction of dip known, upper side of bed unknown)
Shear zone (vertical)
Glacial striae

Geology by G. Shaw, 1939, 1940

Surveyed line
Falls F.
Rapids R.
Portage P.

Drawn by the Topographical Survey.

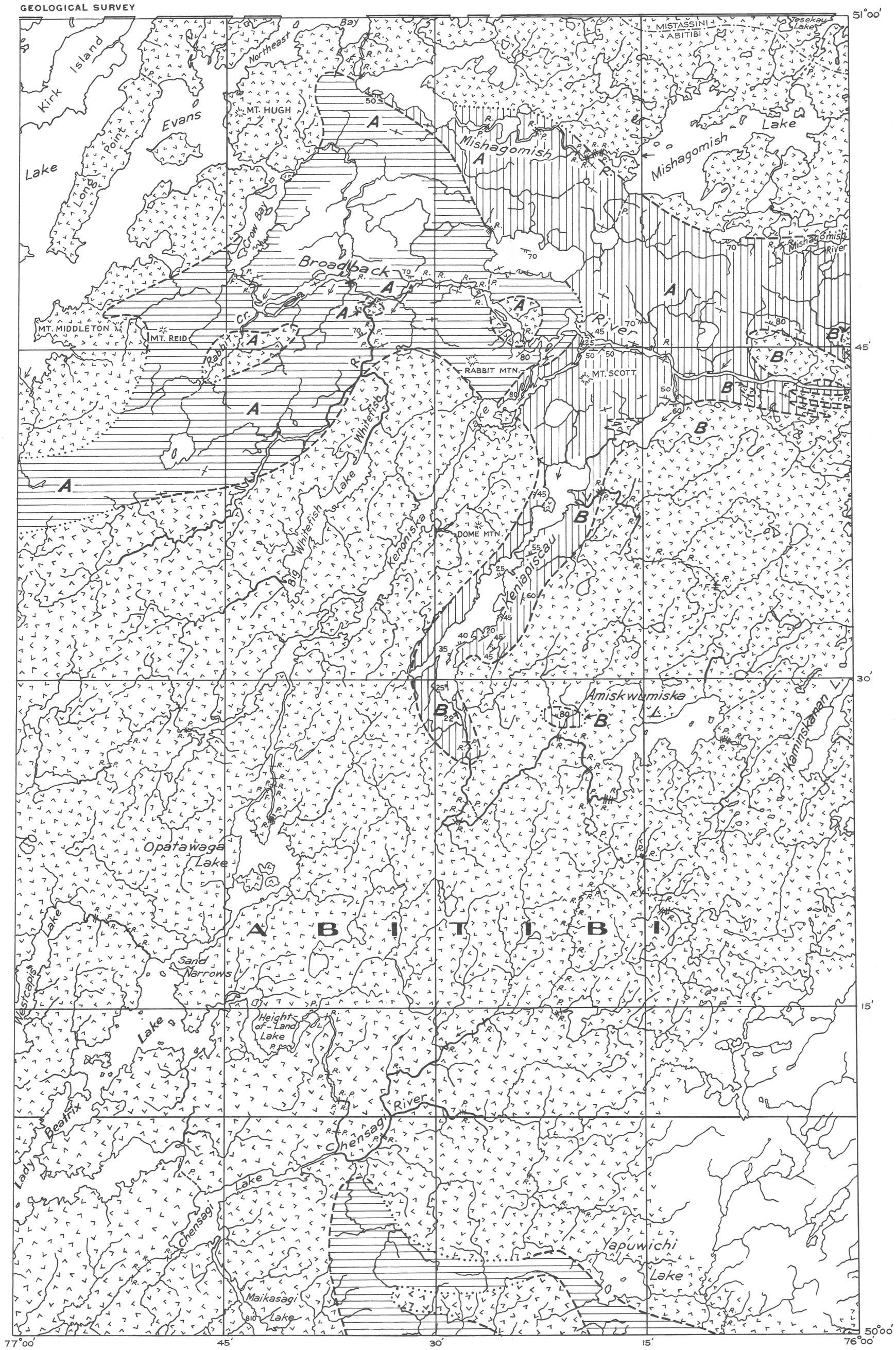
DESCRIPTIVE NOTES

The relative ages of the Lake Evans Series and the Broadback Series is not known. Nowhere was the contact observed. Conglomerate lenses in the greywackes near the lavas, at the north end of Kenoniska Lake, contain boulders of granite, lava, gabbro, chert, and quartz. Here the sedimentary beds appear to dip beneath the lavas but abrupt changes in the attitude of the sedimentary rocks near the contact, and the inability, as a result of metamorphism, to determine the tops of beds, prevented confirmation of this succession.

The hybrid rocks around Keniapiscau Lake are probably partly granitized equivalents of the rocks of the Broadback Series.

The muscovite granite and pegmatite are considered to be a late phase of the widespread intrusions of biotite and hornblende granite. Both types are intrusive into rocks of the Broadback Series but their ages relative to the porphyritic syenite, hornblende syenite and amphibolite, which cut only the lavas, is not known.

Varved clays and silt outcrop along the shores of many of the lakes and rivers and it is probable that much of the area was covered by the waters of glacial Lake Barlow-Ojibway. Sediments deposited in this lake covered much of the rock surface and as a result, bedrock in the lower parts of the region is poorly exposed. This is particularly true of the broad area of sedimentary and volcanic rocks on either side of Broadback River but along the river valley itself outcrops are plentiful.



PRELIMINARY MAP 40-21

MISHAGOMISH LAKE

ABITIBI AND MISTASSINI TERRITORIES

QUEBEC

1940

Scale, 1 inch to 4 miles
Miles
4 0 4 8 12

Approximate magnetic declination 19° West

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