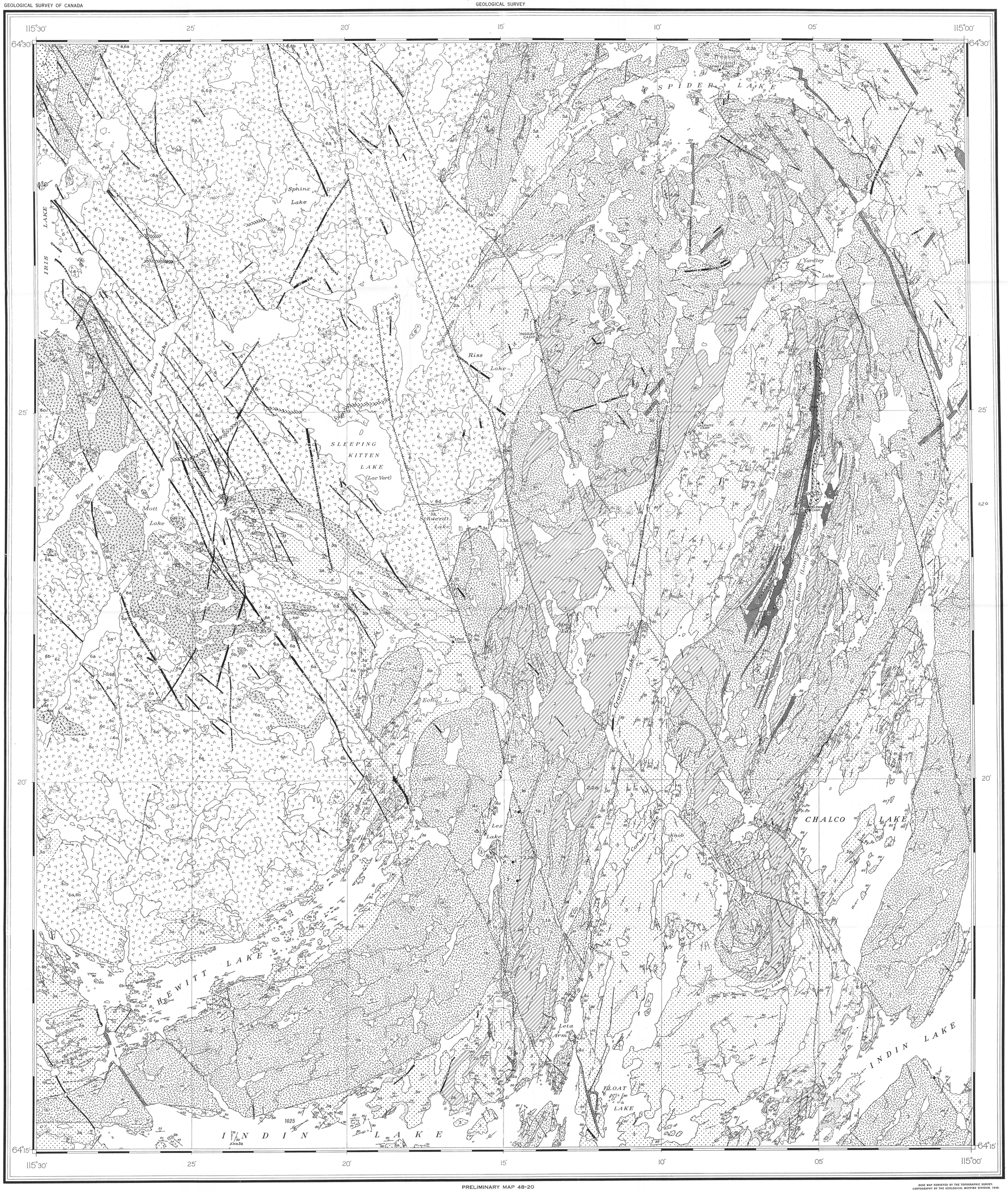
GEOLOGICAL SURVEY OF CANADA

CANADA
DEPARTMENT OF MINES AND RESOURCES
MINES, FORESTS AND SCIENTIFIC SERVICES
GEOLOGICAL SURVEY



LEGEND

PROTEROZOIC

Gabbro, quartz-gabbro; in part diabase; minor basic feldspar porphyry

Quartz-albite rock

Indin Lake granitic rocks; hornblende and hornblende-biotite granodiorite, biotite granodiorite, biotite granite; minor quartz diorite; 6a, biotite and biotite-muscovite granite, microcline-muscovite granite; minor pegmatite; 6b, pegmatitic granite, pegmatite; minor granite; 6c, impure granitic rocks (with up to 50 per cent inclusions of older rocks); 6d, dioritic rocks, due to differentiation or assimilation; 6e, oligoclase-biotite granite and granodiorite with feldspar and quartz-feldspar porphyry

Injection gneisses (migmatites), paragneisses, and schists (with more than 50 per cent of intruded rocks); derived from and grading into 3a, 6, and 6a

4 Gabbro and diorite, quartz gabbro, quartz diorite

ARCHAEAN

YELLOWKNIFE GROUP (1-3)
Greywacke, argillite, slate, phyllite, quartz-biotite schists; minor arkose, quartzite, and graphite schist; 3a, nodular quartz-mica schists and gneisses derived from 3; (A, andalusite-bearing, C, cordierite-bearing, G, garnet-bearing, S, sillimanite-bearing) 3A. Quartz-biotite schists and gneisses, in part knotted (May be post-Yellowknife group)

2 Rhyolite, rhyolite breccia, tuff, agglomerate; minor quartz and quartz-feldspar porphyry; 2a, carbonatized rhyolite, rhyolite breccia, and quartz porphory; 2b, quartz porphyry, quartz-feldspar porphyry; in part intrusive; minor rhyolite, dacite, tuff, and breccia

1 Basalt, andesite; minor dacite, rhyolite, tuff, agglomerate, volcanic breccia, and amygdaloidal and porphyritic andesite; undifferentiated basic intrusions; 1a, carbonatized basalt, andesite, dacite; minor rhyolite and quartz and quartz-feldspar porphyry; 1b, hornblende schists, hornblende-feldspar gneisses and amphibolite; derived from 1; undifferentiated basic intrusions; 1c, andesite, breccia; agglomerate

NOTE. The age relation of 6 and 7 to each other and of 4 and 7 to 3a, are uncertain.

Esker, sand ridges
Bedding (inclined, vertical, overturned, dip unknown)
Bedding (direction of dip known, upper side of bed unknown)
Bedding (upper side of bed faces as indicated, direction of dip unknown)
Schistosity, foliation (inclined, vertical, dip unknown)
Fault
Anticlinal axis
Synclinal axis
Glacial striae
Adit
Porspect trench

MINERAL OCCURRENCES

Mineral occurrences known to carry gold are indicated by the symbol Au. Those for which definite information is not available or in which values are known to be negligible are indicated by symbols for the dominant minerals present. Q indicates an explored quartz vein or lens in which little or no metallic minerals were seen.

Gold	Au
Pyrite, marcasite	Py
Pyrrhotite	Pr
Arsenopyrite	As
Galena	Pb
Sphalerite	Zn
Chalcopyrite	Cu
Quartz	Q
Molybdenite	Mo

Geology by M. S. Stanton, 1946; L. P. Tremblay and D. H. Yardley, 1947

NOTE. A report on the geology of the southern and eastern parts of this area and on most of the mineral occurrences of interest is contained in Geological Survey Paper 47-18, Chalco Lake Map-area by M. S. Stanton.

Portage
Marsh
Cabin

PRELIMINARY MAP 48-20

CHALCO LAKE

NORTHWEST TERRITORIES

Scale: 2 Inches to 1 mile

1 ½ 0 1 2

BASE MAP SURVEYED BY THE TOPOGRAPHIC SURVEY.
CARTOGRAPHY BY THE GEOLOGICAL MAPPING DIVISION, 1948.

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