

LEGEND

- PROTEROZOIC**
- 10 Gabbro, quartz gabbro, diabasic in part; 10a, porphyritic; 10b, quartz gabbro
 - 9 Muscovite granite, gneissic in part
 - Porphyritic (quartz and/or feldspar) rhyolite
 - 7 Diorite, meta-diorite, dioritized greywacke; 7a, massive to gneissic, recrystallized basic rocks of uncertain origin
- YELLOWKNIFE GROUP (1-6) (See Note 1)**
- 6 Nodular, quartz-feldspar-mica schists or hornfels, derived from 3, 4, and 5 (A, andalusite-bearing; C, cordierite-bearing; G, garnet-bearing; S, staurolite-bearing); minor pegmatitic material; 6a, nodular structure less apparent; 6b, sheared
 - 5 Intimate mixture of siliceous greywacke (3) and argillaceous greywacke and argillite (4), but slightly more metamorphosed and having more abundant biotite, greywacke, quartz-feldspar-mica-schist, spotted phyllite, slate, and argillite; 5a, siliceous greywacke predominating; 5b, with much diorite-like weathering rocks
 - 4 Argillite, argillaceous greywacke, slate, minor siliceous greywacke and graphite schist; 4a, argillite and argillaceous greywacke grading into siliceous greywacke; 4b, in part grading into 5; 4c, nodular; 4d, including some diorite-like weathering rocks probably related to 2
 - 3 Siliceous greywacke containing calcareous nodules and layers recrystallized to hornblende granulite (2); minor argillite, slate, and argillaceous greywacke; 3a, some argillaceous greywacke; 3b, with incipient nodular structure; 3c, coarse siliceous greywacke; 3d, siliceous greywacke altered to diorite (7); 3e, in part grading into 5; 3f, including some diorite-like weathering rock probably related to 2
 - 2 Quartzite, in part nodular (A, andalusite-bearing); calcareous rocks recrystallized to hornblende, biotite, and biotite-hornblende granulites and to amphibolites; garnetiferous in part; siliceous and argillaceous greywackes, in part nodular; argillite
 - 1 Basic to intermediate volcanic rocks recrystallized to hornblende-feldspar gneisses and amphibolites; garnetiferous in part; generally gneissic and banded; dacite; minor basalt and andesite; 1a, pillowed; 1b, fragmental; 1c, massive

Note 1: Map units of the Yellowknife group are not necessarily arranged in order of relative age

- Gravel and sand ridges, eskers
- Isograd line of metamorphism
- Bedding (inclined, vertical, overturned, dip unknown)
- Bedding (inclined, dip known, upper side of bed unknown)
- Bedding (upper side of bed faces as indicated, direction of dip unknown)
- Bedding (surface trace of bedding plane)
- Cleavage, schistosity, gneissosity, foliation (inclined, vertical, dip unknown)
- Lamination (direction and plunge)
- Fault (surface, assumed)
- Anticline (a-axis)
- Syncline (a-axis)
- Glacial striae
- Shaft
- Surface workings, including diamond drill-holes

MINERAL OCCURRENCES

- Gold: Au
- Pyrite: Py
- Pyrrhotite: Pp
- Arsenopyrite: As
- Galena: Pb
- Chalcopyrite: Cu
- Pegmatite: P

INDEX TO MINING PROPERTIES

- ① Tychon Yellowknife Mines Limited
- ② Discovery Yellowknife Mines Limited
- ③ Circle Yellowknife Mines Limited
- ④ Northland Mines (1940) Limited
- ⑤ Greenlee Mines Limited

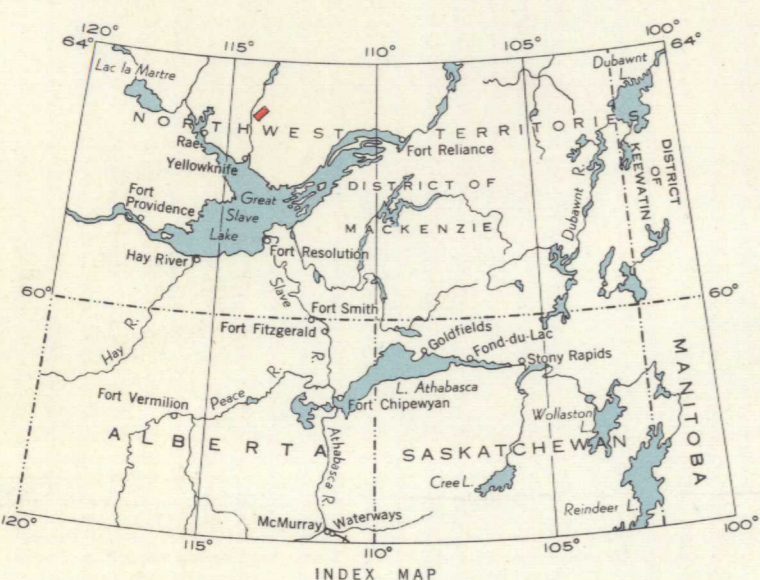
Geology by L.P. Tremblay, 1948, 1949, 1950

- Building
- Trail or winter road
- Mining property boundary (surveyed)
- Marsh
- Height in feet above mean sea-level (approximate)

Base map by Topographical Survey, 1949

Cartography by the Geological Mapping Division, 1952

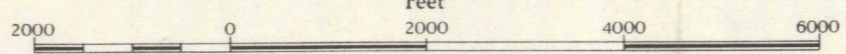
Approximate magnetic declination, 34°35' East



INDEX MAP

MAP 1017A
GIAOQUE LAKE
DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES

Scale 1 Inch to 2,000 Feet = 1/24,000



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