PRELIMINARY SERIES

## LEGEND

**PROTEROZOIC**

- /11 — Quartz veins
- /10 — Diabase dykes

GREAT SLAVE SUPERGROUP UNION ISLAND AND ET-THEN GROUPS

- 9 — Undivided

**ARCHEAN**

- 8 — Mainly massive, porphyritic, pink hornblende–biotite quartz monzonite; includes some migmatite
- 7 — Predominantly quartz monzonite and granite with minor granodiorite and quartz diorite, migmatitic and heterogeneous south of Doucet Lake; 7a, gneissic, medium-grained, light grey to cream biotite–garnet (–muscovite) quartz monzonite, locally contains hornblende and/or is deficient in garnet; 7b, gneissic and massive, coarse-grained, salmon biotite–garnet (–cordierite) granite, commonly contains feldspar phenocrysts or porphyroclasts, locally hypersthene-bearing
- 6 — Mainly massive, medium-grained, pink hornblende–biotite quartz monzonite
- 5 — Migmatite; 5a, dominant component granitic, weathers salmon to pink, grossly stratiform, and commonly mylonitized parallel to layering; 5b, granitic sagen-gneiss; 5c, predominantly composed of amphibolite and metasedimentary gneiss with subordinate granitic component
- 4 — Greenish grey to dark grey quartzofeldspathic chlorite–muscovite (–biotite) cataclasite, schist, and fine-grained amphibolite; origin obscured by cataclasis and recrystallization; acid volcanic, clastic sedimentary, and basic volcanic (amphibolitic) rocks are presumably represented
- 3 — Amphibolite and hornblende–bearing gneiss; 3a, medium- to fine-grained amphibolite, hornblende gneiss, and hornblende–biotite gneiss; 3b, medium- to coarse-grained hornblende meta-gabbro and meta-diorite; retrograde metamorphism characterized by chlorite, actinolite, and epidote group minerals
- 2 — Marble and calc-silicate rocks, includes minor graphitic mica-schist; 2a, dominantly carbonate-bearing; 2b, dominantly silicate-bearing
- 1 — Pelitic gneiss, pelitic schist, and quartzofeldspathic pyroxene-bearing gneiss; high-grade metamorphic associations characterized by cordierite, garnet, biotite, sillimanite, hypersthene, and clinopyroxene (diopside); retrograde metamorphism characterized by chlorite, muscovite, andalusite, and epidote group minerals; 1a, garnetiferous subunit; 1b, nongarnetiferous subunit

NOTE: units 1 to 3 are interlayered

Geological boundary (defined or approximate, assumed)

Bedding, tops unknown (inclined)

Foliation, primary and secondary (inclined, vertical, dip unknown)

Lineation (horizontal, inclined)

Trend of complexly folded bed (arrow indicates plunge)

Structural trend (from air photographs)

Fault (defined, approximate, assumed; arrow in direction of dip)

Glacial striae (direction of ice movement known, unknown)

Locality where age has been determined in million of years, ⊙1735

Mineral occurrence

Mineral prospect with rock trenching and/or diamond drilling (indicated by DDH)

Diamond-drill hole. ● DDH

MINERALS

| | | | |
|---|---|---|---|
| Barite | ba | Native copper | Cu |
| Bornite | bo | Pyrite | py |
| Chalcopyrite | cp | Pyrrhotite | po |
| Fluorite | fl | Sphalerite | sp |
| Galena | gn | | |

Geology by E.W. Reinhardt, 1965; E.W. Reinhardt and C.J. Dodds, 1966; compiled by E.W. Reinhardt, 1967

To accompany Paper 69-21 by E.W. Reinhardt

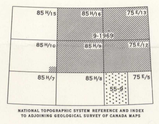
Geological cartography by the Geological Survey of Canada, 1969

Base–map assembled by the Geological Survey of Canada, 1969 from maps published at the same scale by the Surveys and Mapping Branch in 1956, 1961, 1962, 1963, 1964

Approximate magnetic declination 1969, 29°36' East decreasing 6.1' annually

All elevations in feet above mean sea-level

INDEX MAP

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GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 9-1969
PAPER 69-21

GEOLOGY

# THUBUN LAKES

DISTRICT OF MACKENZIE

Scale 1:50,000

Miles 1 0 1 2 Miles
Metres 1000 0 1000 2000 3000 Metres

Any revisions or additional information known to the user would be welcome by the Geological Survey of Canada. A replacement copy will be returned.

INSET MAP

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Thubun Lakes

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MAP 9-1969 C2
THUBUN LAKES
DISTRICT OF MACKENZIE

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