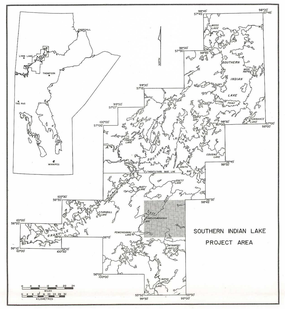
Manitoba
Department of Mines, Resources
and Environmental Management
MINES BRANCH

INDEX MAP



The corresponding sheet of the National Topographic Series is 64B-6.

Geology by

C. F. LAMB, M. A. STEEVES,
and D. C. P. SCHLEDEWITZ

1969, 1970

and

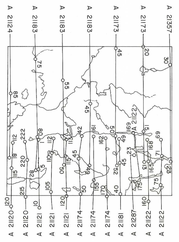
G. C. MILLIGAN, 1964

Cartography by the Draughting Section
Manitoba Mines Branch

To accompany Publications 71-2B and 71-2F

The magnetic declination at the centre of the area is approximately 12°18′ E. (1971) and is increasing by 0.3′ annually.

INDEX TO AERIAL PHOTOGRAPHS



LEGEND

PRECAMBRIAN

Post-Sickle Intrusive Rocks

19	*Diabase*
18	Pegmatite and aplite
17c	*Pink "quartz-eye" granite; quartz monzonite*
17b	*Quartz monzonite*
17a	*Porphyritic quartz monzonite*
16	*Nebulitic tonalite and granodiorite with inclusions of 10, 11 and 2a*
15c	Pink granite and quartz monzonite; minor alaskite
15b	*Coarse-grained gneissic granodiorite and quartz diorite*
15a	Biotite-hornblende granodiorite with diorite to quartz dioritic contact phases; minor quartz monzonite
14c	*Quartz monzonite; granite*
14b	*Granodiorite*
14a	*Biotite-hornblende tonalite and diorite*
13	*Hornblendite and associated amphibole-plagioclase gneiss*
12	*Foliated magnetiferous quartz diorite*
11d	*Gneissic hornblende granodiorite to quartz diorite*
11c	*Magnetite-biotite granodiorite*
11b	*Diorite; associated quartz diorite and granodiorite*
11a	*Quartz diorite; leuco-quartz diorite*

Opachuanau Gneisses

10c	*Migmatite derived from 10a and 10b*
10b	*Hornblende-biotite intermediate gneiss with amphibole-plagioclase gneiss and amphibolite*
10a	*Biotite-hornblende intermediate gneiss*

Sickle Group

9	*Biotite-muscovite-quartz schist*
8c	Arkose-derived gneisses and migmatite
8b	Impure arkose; minor quartzite
8a	*Arkosic conglomerate; minor arkose*

Pre-Sickle Intrusive Rocks

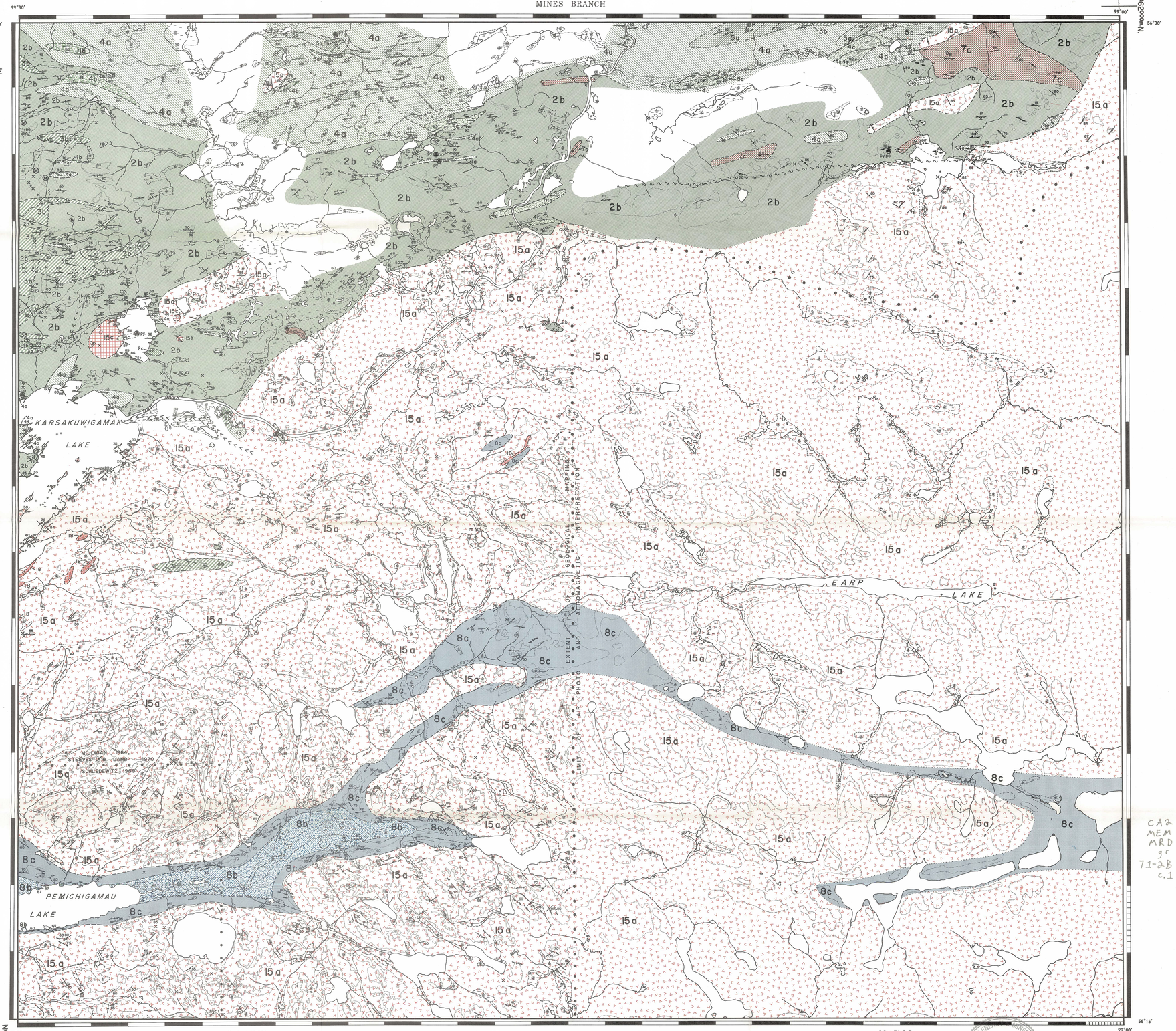
7c	Diorite; quartz diorite
7b	Hornblende gabbro; hornblendite; minor diorite and quartz diorite
7a	*Ultramafic amphibolite and associated olivine-bearing rocks*

Wasekwan Group

6	*Sulphide zones*
5b	*Porphyritic meta-basalt and meta-andesite*
5a	Meta-basalt; meta-andesite
4d	*Plagioclase paragneiss*
4c	Meta-arkose; feldspathic quartzite; minor arkosic conglomerate
4b	Greywacke conglomerate
4a	Acid and intermediate pyroclastic rocks; metamorphosed volcaniclastic rocks; meta-argillite; amphibolite
3b	Dacite; minor rhyolite and rhyodacite; acid tuff; agglomerate; volcanic breccia
3a	*Fragmental volcanic rocks and associated amphibole gneiss*
2d	*Banded amphibole-plagioclase and biotite-tremolite-garnet gneisses*
2c	Porphyritic meta-basalt, meta-andesite and meta-picrite
2b	Meta-basalt; meta-andesite; meta-picrite; includes minor amounts of 3b and 4a
2a	*Amphibolite; amphibole-plagioclase gneiss*
1	*Pelitic biotite gneiss*

SYMBOLS

	Area of outcrop		Fault (defined, approximate, assumed)
×	Small outcrop		Mineral occurrence:
	Geological boundary (approximate, assumed, underwater)	py	pyrite
	Geological boundary, gradational	po	pyrrhotite
60	Bedding, tops known (inclined)	cp	chalcopyrite
60	Bedding, tops unknown (inclined, vertical)	M	Area of magnetic disturbance
60	Metamorphic layering, *lit-par-lit* (inclined)		Glacial striae (direction of movement known, unknown)
	Pillow lava (tops known)	+	Reef
60	Gneissosity (inclined, vertical, dip unknown)	< < < < <	Esker
60	Schistosity (inclined, vertical, dip unknown)		Swamp
60	Cataclastic foliation (inclined)	• • •	Boundary of map-area
60	Joints (inclined, vertical)		



Scale 1:50,000

MILES 0 1 2 3 MILES
METRES 1000 500 0 1000 2000 3000 4000 METRES
YARDS 1000 500 0 1000 2000 3000 4000 YARDS

Map 71-2-7

EARP LAKE

THE PAS MINING DISTRICT

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