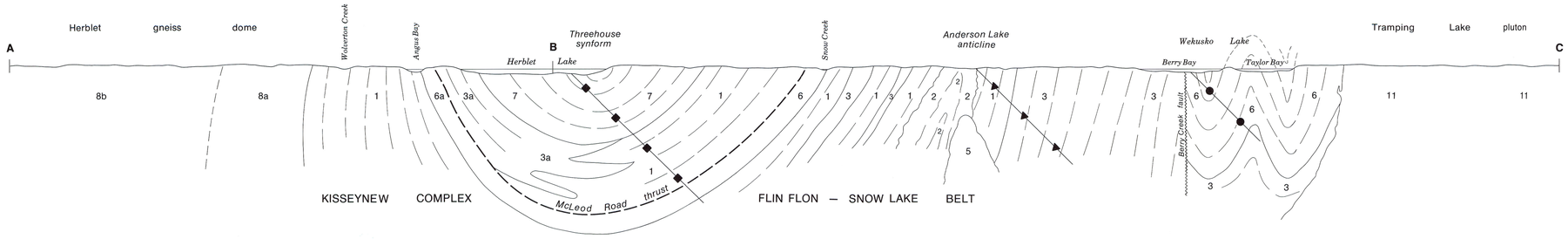
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES



Diagrammatic cross-section along A-B-C

LEGEND

APHEBIAN (?)

- 12 *Pegmatite*
- 11 *Granodiorite*
- 10 *Gabbro*
- 9 *Tonalite*

relative age uncertain

GNEISS DOMES

- 8 *Granitoid gneisses: 8a, pink; 8b, light grey*

MISSI GROUP

- 7 *Metamorphosed lithic arenite; some layers of amphibolite (metamorphosed mafic sills)*

AMISK GROUP

- 6 *Metamorphosed greywacke and shale; 6a, calc-silicate rocks and impure marble; 6b, coarse garnet schist; st staurolite, si sillimanite*
- 5 *Metamorphosed quartz-eye tonalite*
- 4 *Metamorphosed differentiated mafic intrusion: peridotite, gabbro and diorite*

relative age uncertain

- 3 *Metamorphosed mafic lavas, mafic pyroclastic and volcaniclastic rocks; minor amounts of felsic fragmental rocks; 3a, amphibolite; p pillows, b bedded, f fragmental*
- 2 *Metamorphosed altered volcanic rocks of unit 1; ky kyanite, si sillimanite, at anthophyllite, co cordierite*
- 1 *Metamorphosed felsic pyroclastic and volcaniclastic rocks; minor amounts of metamorphosed mafic fragmental rocks and layers of amphibolite; 1a, quartzofeldspathic gneiss; q quartz eyes, b bedded, f fragmental*

Commonly units 1 and 3 are interlayered and essentially contemporaneous; in some localities (e.g. Chisel Lake) unit 3 is younger than unit 1. Ages of units 4 and 5 are uncertain relative to units 6 and 7

Geological boundary (defined, approximate, assumed)
Bedding, tops known (inclined, overturned)
Bedding, tops unknown (inclined, vertical)
S1 foliation (horizontal, inclined, vertical)
S2 foliation (inclined, vertical)
L2 lineation (horizontal, inclined)
Fault (defined, approximate, assumed)
Thrust fault (assumed)
F1 fold: anticline, syncline (upright, overturned)
F2 fold: antiform, synform
Mineral occurrence (sulphide S, nickel-copper Ni-Cu, lead-zinc Pb-Zn)
Mineral deposits

Copper-zinc
A Chisel Lake
B Lost Lake
C Ghost Lake
D Joannie
E Anderson Lake
F Ram
G Stall Lake
H Linda
I Rod
J Osborne Lake

Gold
K Dick, L Toots — Nor-Acme

METAMORPHIC ZONES

Biotite-sillimanite-garnet zone
- *Quartz-sillimanite nodules in Missi lithic arenite*
- *Cordierite-almandine-anthophyllite*
- *Biotite-sillimanite-almandine-staurolite*
- *Biotite-sillimanite-almandine-muscovite*
- *Biotite-sillimanite-almandine isograd*

Biotite-staurolite-sillimanite zone
- *Anthophyllite-cordierite-staurolite*
- *Chlorite-almandine-anthophyllite-staurolite*
- *Biotite-staurolite-muscovite*
- *Biotite-staurolite-sillimanite-muscovite*
- *Chlorite-biotite-staurolite-sillimanite-muscovite*
- ky *Kyanite instead of or in addition to sillimanite*
- *Biotite-sillimanite isograd*

Chlorite-biotite-staurolite zone
- *Chlorite-almandine-cummingtonite-anthophyllite*
- *Chlorite-biotite-staurolite-muscovite*
- *Chlorite-biotite-staurolite-almandine-muscovite*
- *Biotite-staurolite isograd*

Chlorite-biotite zone
- *Chlorite-biotite-muscovite*

Geology by E. Froese and J.M. Moore, 1970-1972. Geology of areas west of about longitude 100°08′ West and southeast of Berry Creek and Herb Bay compiled from Armstrong (1941), Harrison (1949), Frarey (1950) and Williams (1966)

To accompany Paper 78-27 by E. Froese and J.M. Moore

Geological cartography by G. Fouchard, Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map assembled by the Geological Survey of Canada from maps published at the same scale by the Surveys and Mapping Branch in 1970, 1971.

Approximate magnetic declination 1979, 12°28′ East, decreasing 5.4′ annually

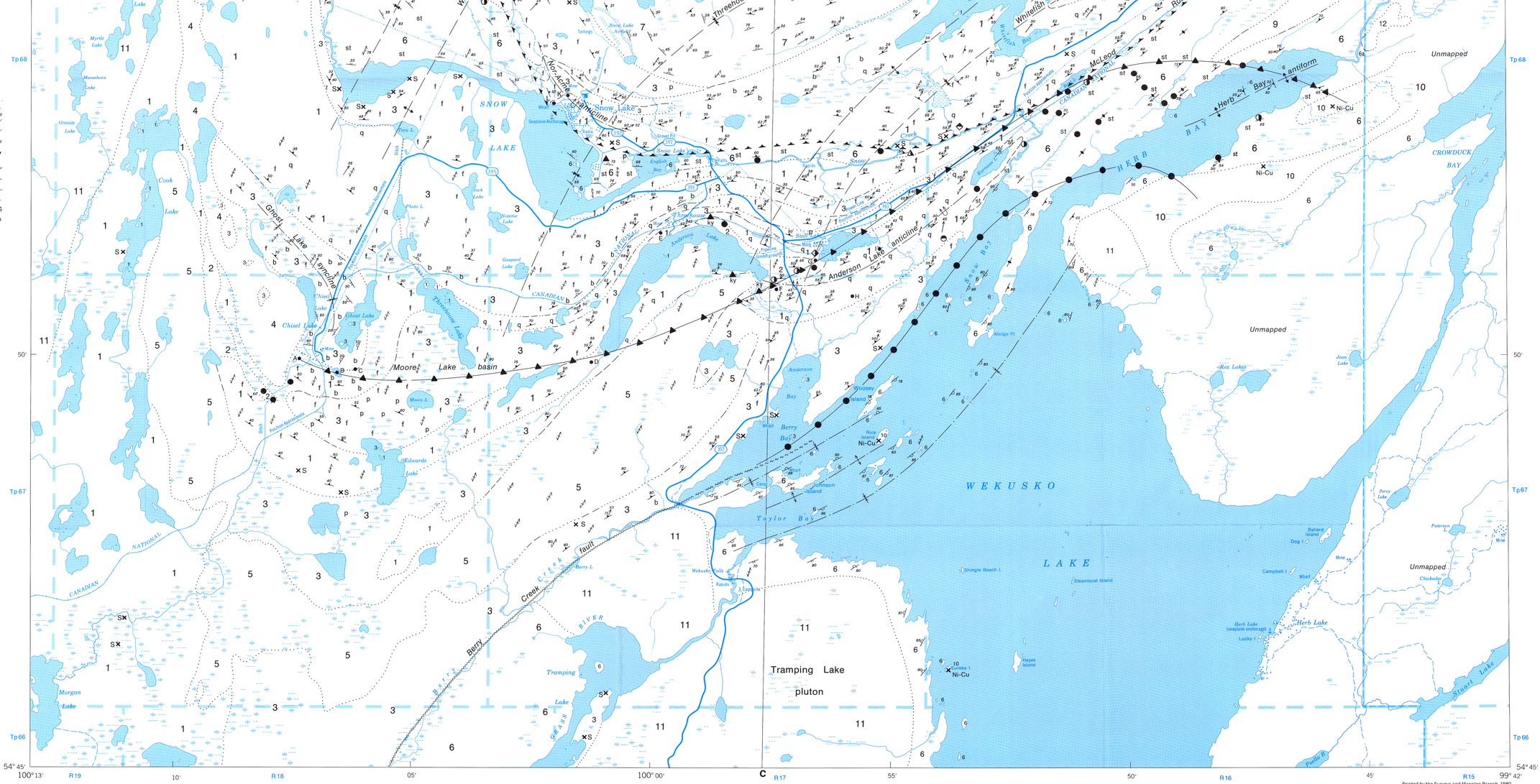


Figure 2. Geology of the Snow Lake area, Manitoba

WEST OF PRINCIPAL MERIDIAN

Scale 1:50,000

Kilometres 1 0 1 2 3 4 Kilometres
Miles 1 0 1 2 Miles

Universal Transverse Mercator Projection

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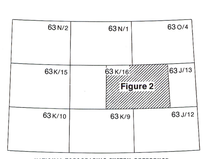

Figure 2

Printed by the Surveys and Mapping Branch, 1980

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