

LEGEND

PRECAMBRIAN

- Archean**
- Younger Plutonic Rocks**
 - X** Pegmatite
 - Gx** Pegmatitic granite
 - Z** Quartz monzonite, quartz monzodiorite
 - 1,2** **G** Granite; **Gk** — microcline granite
Lac du Bonnet batholith:
LG — granite, granodiorite 1:2623 ± 91 Ma; **LGP** — porphyritic granite, granodiorite; **LGH** — xenolith-bearing granite, granodiorite; **LGN** — gneissic granite; **LGB** — hornblende-biotite granite; **LGBt** — biotite granite; **LGL** — leucogranite with inclusions of amphibolite and tonalite
oG — granite, granodiorite; 2:2663 ± 7 Ma
oGP — porphyroblastic granite, granodiorite
oGL — leucogranite
 - G** Granodiorite, granite; **Gp** — porphyritic granodiorite, granite; **GI** — leucogranodiorite
- Plutonic Rocks of Various Ages**
- WD** Quartz diorite, granodiorite, granite

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Mineral Resources Division

Suggested reference to this publication: Manitoba Energy and Mines, 1987: Bedrock Geology Compilation Map Series, Preliminary Edition, Pointe du Bois, NTS 52L, 1:250 000.

This map is a provisional compilation based on preliminary geological maps. It is not to be regarded as a final interpretation of the geology of the area.

A contribution by Manitoba Energy and Mines, Geological Services, to programming under the Canada-Manitoba Mineral Development Agreement (MDA), a subsidiary agreement of the Economic and Regional Development Agreement (ERDA).

Compilation by D. Kowarchuk and W. Weber
 Cartography by D.L. McShane

- ENGLISH RIVER DOMAIN**
- Bird River Greenstone Belt**
- W** Greywacke, grit, conglomerate } Booster Lake Fm
 - C** Polymictic conglomerate } Flanders Lake Fm
 - S** Arenite } Flanders Lake Fm
 - 3** **oGT** Tonalite, granodiorite; 3:2779 ± 35 Ma; **oGTh** — hornblende tonalite, quartz diorite; **oGT** — tonalite and **oTh** } Great Falls pluton
 - G** Granodiorite
 - 4** **D** Diorite; 4:2715 Ma
 - B** Gabbro
 - C** — Volcanic conglomerate; **W** — undifferentiated volcanoclastics } Bernic Lake Fm
 - V** Mafic and felsic volcanics } Bernic Lake Fm
 - 5** **V** Felsic flows and tuffs; 5:2741 Ma } Peterson Creek Fm
 - 6** **BRB** Gabbro, anorthositic gabbro; 6:2745 ± 5 Ma } Bird River Sill
 - BRU** Peridotite } Bird River Sill
 - Vo** Pillow basalt; Lamprey Falls Fm
 - V** Volcanic wacke; Eaglenest Lake Fm
- Manigotagan Gneiss Belt**
- N** Paragneiss; **Nh** — hornblende gneiss
 - N** Migmatitic paragneiss; **Nd** — cordierite-sillimanite-bearing migmatitic paragneiss; **Nx** — pegmatite and migmatitic paragneiss
 - Tn** Gneissic tonalite
- Plutonic Rocks of Intermediate Age**
- Winnipeg River Complex**
 - Gh** Granodiorite, quartz diorite containing inclusions of basement gneiss
 - Older Gneiss Complex**
 - Tn** Gneissic tonalite; **Th** — gneissic tonalite injected by leucogranite (LGI)
 - Ni** Layered intermediate gneiss

UCHI DOMAIN

- Rice Lake Greenstone Belt**
- U** Ultramafic rocks
 - S** Arkose, grit, conglomerate } San Antonio Fm
 - C** Polymictic conglomerate } Edmonds Lake Fm
 - N** Metasedimentary gneiss, locally andalusite-bearing; **Nh** — hornblende gneiss } Edmonds Lake Fm
 - W** Greywacke, argillite, minor iron formation } Edmonds Lake Fm
 - 7** **RD** Ross River quartz diorite; 7:2728 ± 8 Ma
 - I** Anorthositic gabbro
 - B** Gabbro
 - V** Redeposited felsic pyroclastics, mafic volcanics, volcanoclastic rocks } Manigotagan River Fm
 - 8** **V** Felsic flows and pyroclastic rocks; 8:2731 ± 2 Ma } The Narrows Fm
 - V** Volcanic sandstone, mafic and felsic volcanics } Stormy Lake Fm
 - W** Argillite, volcanic wacke, conglomerate } Stovel Lake Fm
Dove Lake Fm
 - V** Basalt, mainly pillowed } Tinney Lake Fm
Gunnar Fm

STRATIGRAPHIC NOTE

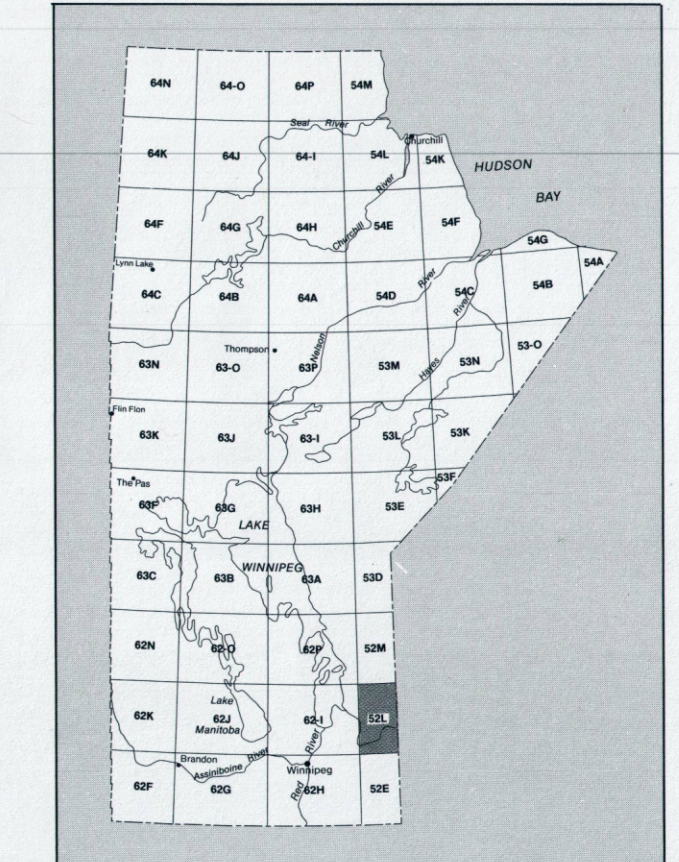
The map units within the major stratigraphic divisions are in approximate stratigraphic order.

- References for U-Pb zircon ages:
2,7,8 Turek et al., 1987
3,4,5,6 Timmins et al., 1985
 Reference for Rb-Sr whole-rock age:
1 Farquharson, 1975

MINERAL OCCURRENCES

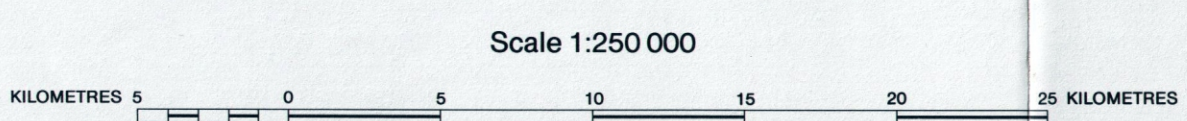
- 1 CANADIAN SHIELD — Granite
- 2 LEE RIVER — Granite
- 3 DUMBARTON, MASKWA WEST — Ni, Cu
- 4 TANGO — Li, Rb, Cs, Ta
- 5 BUCK — Li
- 6 VERNON — Fuchsite
- 7 HURON — Li, beryl
- 8 BIRSE LAKE — Quartz
- 9 GREER POINT — Feldspar, beryl
- 10 WHITESHELL — Schist
- 11 DIANA — Au
- 12 PACKSACK — Au
- 13 GOLD PAN, GOLD SEAL — Au
- 14 CRYDERMAN — Au
- 15 OGAMA, ROCKLAND — Au
- 16 CENTRAL MANITOBA — Au, Ag
- 17 SOLO, ORO GRANDE — Au, Ag
- 18 GUNNAR, Au

BEDROCK GEOLOGY COMPILATION MAP SERIES
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- SYMBOLS**
- Geological boundary (approximate)
 - Fault
 - Iron Formation
 - Domain boundary
 - Area of little or no outcrop
 - 2** **G** Sample locality for U-Pb zircon/Rb-Sr whole rock age determination
 - ▲** **▲** Present/past mineral producer
 - Limit of outcrop

True North
 4°30'E
 Approximate mean declination (1987) for centre of map.
 Decreasing 14.8' annually



Scale 1:250 000

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