

LEGEND

PROTEROZOIC ROCKS

INTRUSIVE ROCKS

- Quartz-rich vein
- Quartz vein
- Pink pegmatite, apfite
- White pegmatite, apfite

Metacarcatic rocks

- Mafic composite dike
- Garnet leucophaeite, coarse-grained, in the central zone of the dike
- Metagabbro, composed of a rhythmically alternating meta- and leucogabbro layers
- Metacarcatic amphibolite, fine-grained margin of the dike
- Mafic dike, undifferentiated

OSPWAGAN GROUP METASEDIMENTARY SEQUENCE

T1 Thompson Formation

- T1b Member
 - Mart
 - Chert, bitole-enriched
 - Mart, yellow-benge
 - Siliceous mart

M1 Manitowish Formation

- M2 Member
 - Serpentinite wacke
 - Wacke, mica-enriched
- M1 Member
 - Feruginous arenite
 - M1d2 Silicate-bearing
 - M1d1 Bitole-enriched
 - Calcareous arenite
 - M1c3 Laminated, weakly calcareous
 - M1c2 Layered, weakly calcareous
 - M1c1 Arkose, calcareous
 - M1b9 Meta-arkose / subarkose arenite
 - M1b8 Arenite, quartz- and feldspar-enriched
 - M1b7 Arenite, apfite-enriched
 - M1b6 Arenite, bitole-enriched
 - M1b5 Arenite, apfite-enriched
 - M1b4 Arenite, apfite-enriched
 - M1b3 Subarkose arenite
 - M1b2 Arenite, light grey
 - M1b1 Arenite, carbonate-enriched
 - M1a1 Arenite, rusty, apfite-rich
 - M1a2 Arenite, massive layer
 - M1a3 Metasiltite / meta-arenite
 - M1a4 Oligomictic conglomerate

ARCHEAN BASEMENT ROCKS

- A4 Amphibolite (amphibolite rags in felsic gneiss)
- A3 Amphibolite
- A2 Schlieren, bitole- and amphibole-enriched
- A1 Gneiss and stromatic pegmatite, felsic

SYMBOLS

- Knots containing silicates or muscovite
- Clay, debris or vegetation cover
- Lithological contact
- Form surface lines of sedimentary, metamorphic or igneous layering in appropriate lithologies
- Box with instruments
- Plained letters
- Iron post
- Cut by diamond saw
- Igneous layering (inclined, vertical)
- Bedding - tops known, inferred from stratigraphic order (inclined, vertical, overturned)
- Metamorphic layering, gneissosity (inclined, vertical, dip unknown)
- Foliation (inclined, vertical, dip unknown)
- Contact
- Lineation
- Fold axis
- Fold axial plane (inclined, vertical)
- Synform (large scale, intermediate scale)
- Antiform (large scale, intermediate scale)
- Fault
- Breccia
- Topographic contours (metres above sea level)

SELECTED BIBLIOGRAPHY

Bleeker, W. 1990. Evolution of the Thompson Nickel Belt and its nickel deposits. Manitoba, Canada. Ph.D. thesis, University of New Brunswick, Fredericton, New Brunswick, 400 p.

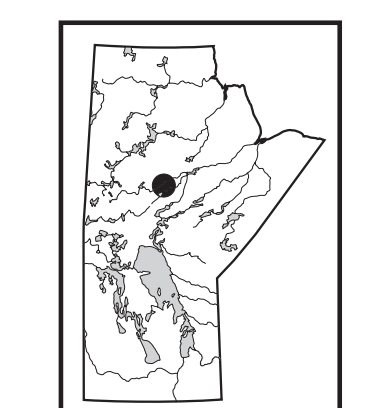
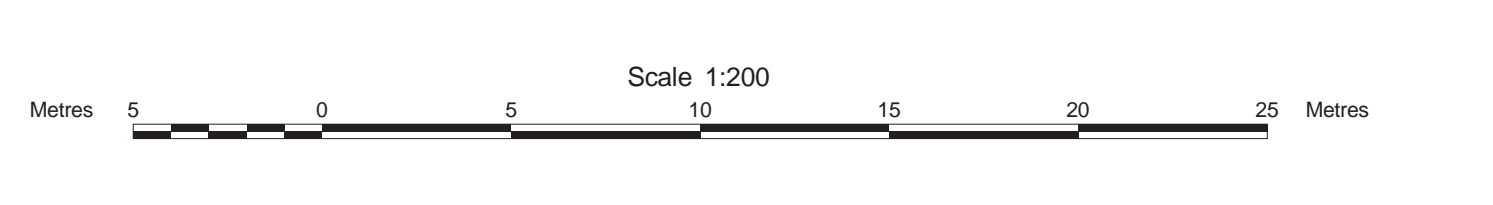
Moore, J.J., McGregor, C.R. and Zwieng, H.V. 2004. Thompson Nickel Belt Project, Manitoba (part of NTS 63P12): geology of the South pit, Thompson mine. In Report of Activities 2004, Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, p. 130-146.

Thompson Nickel Belt Geology Working Group 2001. Geology of the Osipwagan Lake west (NTS 8309 west half) and Thompson east (83P12 west half) areas, Manitoba Industry, Trade and Mines, Manitoba Geological Survey, Preliminary Map 2001P-3, scale 1:50,000.

Approximate mean declination 2005 for central of map
Declining 1.0° annually

Geoscientific Map MAP2005-1

**Geology of the South pit (northwest shoulder),
Thompson mine, Thompson, Manitoba (part of NTS 63P12)**



Geology: J.J. Moore, C.R. McGregor and H.V. Zwieng
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 Moore, J.J., McGregor, C.R. and Zwieng, H.V. 2005. Geology of the South pit (northwest shoulder), Thompson mine, Thompson, Manitoba (part of NTS 63P12). Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Geoscientific Map MAP2005-1, scale 1:200.

Copies of this map can be obtained from:
 Manitoba Industry, Economic Development and Mines
 Manitoba Geological Survey, Publication Sales
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