



Open File Report OF2005-1
Geology of the Hidden formation on the west limb of the Hidden syncline north of the Railway Fault, Flin Flon region, Manitoba and Saskatchewan (part of NTS 63K13SW)

LEGEND

- PROTEROZOIC**
- Intrusive rocks**
- Z1 Phantom Lake intrusion: fine- to medium-grained, plagioclase and quartz porphyritic felsic dikes
- Missi Group**
- X1 Conglomerate, wacke, sandstone and siltstone
- Flin Flon arc assemblage**
- Synvolcanic intrusive rocks**
- D4 Gabbroic-textured, fine- to medium-grained dikes and sills (may include <1.88 Ga intrusions)
 - D3a Intermediate dikes and sills
 - a) Fine-grained, gray andesite with 5 to 20% 2 to 7 mm amphibole crystals
 - b) Coarse-grained, gray, feldspar-rich andesite
 - D2a Porphyritic, fine- to medium-grained mafic dikes and sills
 - a) Feldspar (5 to 15%, 2 to 10 mm) and pyroxene (5 to 15%, 2 to 10 mm) porphyritic
 - b) Feldspar porphyritic (5 to 30%, 3 to 15 mm)
 - c) Pyroxene (5 to 8%, 2 to 10 mm) porphyritic
 - d) Feldspar porphyritic (5 to 30%, 3 to 15 mm) with 5 to 15% quartz amygdaloids
 - D1 Aphritic to sparsely feldspar phytic (<5%), fine- to medium-grained, massive, commonly flow banded and commonly containing quartz amygdaloids (<5%)
- Hidden formation**
- Newcor member**
- N2 Mafic volcanoclastic rocks
 - a) Heterolithic lapillitoid, aphritic non-amygdaloidal to amygdaloidal (1 to 80%) basalt clasts, minor (<1%) felsic clasts
 - N1 Plagioclase and pyroxene phytic basalt cryptoflows and flows, peperite
 - a) Massive
 - b) Pillowed
 - c) Contains included tuff
- Bomber member**
- O2 Massive to plane-bedded mafic tuff
 - O1 Aphritic to feldspar phytic basalt cryptoflows and flows, peperite
 - a) Massive, may contain up to 5% feldspar phenocrysts, quartz amygdaloidal
 - b) Pillowed, may contain up to 5% feldspar phenocrysts, quartz amygdaloidal
 - c) Contains included tuff
 - d) Peperite
- 1920 member**
- I1 Amygdaloidal amphibole-phyric andesite cryptoflows and flows
 - a) Massive cryptoflows and flows, 1 to 3 mm amphibole crystals
 - b) Pillowed flows, 1 to 3 mm amphibole crystals
 - c) Contains included tuff
 - d) Peperite
- Undivided**
- H3 Felsic volcanoclastic rocks, pumice bearing
 - H2 Undifferentiated mafic and felsic volcanoclastic rocks
 - H1 Pyroxene-phyric basalt cryptoflows and shallow intrusions
 - a) Massive 1 to 5% pyroxene phenocrysts, and 1% cognate, mafic xenoliths
 - b) Contains included tuff
 - c) Peperite
- Pale colours indicate major units extrapolated between outcrops

SYMBOLS

- Geological contact (known, approximate, facies change)
- In situ breccia
- Thrust fault
- Fault
- Bedding (top: known, unknown)
- Foliation (generation: unknown, first, second, third)
- Flow contact (top known)
- Pillow (top known)
- Shear zone
- Lineation (generation: first, second)
- Minor fault
- Dike
- Quartz vein
- Quartz body, vein

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 DeWolfe, Y.M. 2005: Geology of the Hidden formation on the west limb of the Hidden syncline north of the Railway Fault, Flin Flon region, Manitoba and Saskatchewan (part of NTS 63K13SW); Manitoba Industry, Economic Development and Mines, Manitoba Geological Survey, Open File Report OF2005-1, scale 1:1000.

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