



- Legend**
- Paleoproterozoic**
- 12 Pegmatite, granitic
  - 11 Granite
  - 10 Granodiorite
  - 9 Quartz monzonite
  - 8 Diabase, homogeneous plagioclase amphibolite derived from diabase and gabbro dikes
  - 7 Ultramafic rocks
  - 6 Oswagan group
    - 6a Manasan formation
    - 6b Thompson formation
    - 6c Pipe formation
    - 6d Pipe formation, sulphide-facies iron formation
  - 5 Mafic volcanic rocks; banded plagioclase amphibolite, sparse relict pillowed flows and basaltic breccia
  - 4 Quartzite-pelite assemblage
    - 4a Quartzite with subordinate pelite and wacke
    - 4b Graphitic and sulphidic pelite
    - 4c Iron formation, silicate-facies
  - 3 Calcisilicate-semipelite assemblage; calcisilicate and tremolite-biotite gneiss with minor marble
- Intrusive rocks of uncertain age**
- 2 Garnet-bearing intrusion, weakly gneissic
    - 2a Garnet-biotite granite-granodiorite
    - 2b Garnet-hornblende granodiorite-tonalite
- Archean rocks**
- 1 Archean orthogneiss; undivided, typically tonalitic to granodioritic, locally garnet-bearing

- Structural symbols**
- Archean sedimentary rocks, dominantly wacke
  - Axial plane
  - Fold hinge, minor S; generation 3, unknown
  - Fold hinge, minor U; generation 3, unknown
  - Fold hinge, minor Z; generation 3, unknown
  - Foliation; generation 3, unknown
  - Gneissosity, generation 2
  - Glacial striae
  - Intersection lineation
  - Rodding
  - Shear fabric, sinistral, generation 3 or 4
  - Stretching lineation
- Boundaries**
- Contact, approximate
  - Extent of mapping
  - Fault or shear zone
  - Major road
  - Minor road
  - Power line
  - Railway

**Preliminary Map PMAP2022-1  
Bedrock geology of the Halfway Lake area, central Manitoba  
(parts of NTS 6301, 2)**

Geology by C.G. Couëslan (2022)  
Cartography by H.O. Adediran  
A detailed explanation of the geology can be found in Couëslan (2022).  
Underwater geology and geology away from the lakeshore is modified from Macek et al. (2006).  
**Suggested reference:**  
Couëslan, C.G. 2022: Bedrock geology of the Halfway Lake area, central Manitoba (parts of NTS 6301, 2); Manitoba Natural Resources and Northern Development, Manitoba Geological Survey, Preliminary Map PMAP2022-1, scale 1:25 000.  
This map is a provisional summary of work carried out during the summer field season and is produced directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.  
**References:**  
Couëslan, C.G. 2022: Bedrock mapping in the Halfway Lake area, Thompson nickel belt, central Manitoba (parts of NTS 6301, 2); in Report of Activities 2022, Manitoba Natural Resources and Northern Development, Manitoba Geological Survey, p. 12–24, URL <https://manitoba.ca/iem/geo/field/roa22pdfs/GS2022-3.pdf> [November 2022].  
Macek, J.J., Zwanzig, H.V. and Pacey, J.M. 2006: Thompson Nickel Belt geological compilation map, Manitoba (parts of NTS 63G, J, O, P and 64A and B); Manitoba Science, Technology, Energy, and Mines, Manitoba Geological Survey, Open File Report OF2006-33, digital map on CD, URL <https://manitoba.ca/iem/info/libmin/OF2006-33.zip> [August 2022].  
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