

LEGEND

- HELIKIAN**
- 7 Gabbro and diabase dykes (northwest trending)
  - 16 Granite, quartz monzonite, granodiorite; pink to grey, porphyritic, coarse grained, commonly fluorite-bearing (Nueltin Lake complex)
- APHEBIAN**
- 15 Granite, quartz monzonite; pink, medium grained; 15a, white to grey granodiorite; 15b, with abundant inclusions and bands of older rock; 15c, granite pegmatite
- PROTEROZOIC**
- HURWITZ GROUP (6-14)**
- 12 Dolomite and limestone with some interbedded argillite and phyllite; 12a, quartz-magnetite iron-formation interbedded with dolomite and phyllite
  - 11 Gabbro sills; 11a, meta-gabbro sills
  - 10 Argillite, phyllite; some interbedded dolomite and limy argillite; minor greywacke, slate, siltstone, quartz-magnetite iron-formation
  - 9 Quartzite, orthoquartzite; minor arkose quartzite; 9a, greywacke, pebbly greywacke
  - 8 Greywacke-conglomerate, greywacke, protoquartzite; minor arkose
  - 14 Paragneiss, paraschist, calc-silicate bands; derived from 13; may include minor amounts of 4
  - 13 Undivided 10, 11, and 12; 13a, metamorphosed equivalents of 10, 11, and 12; phyllite, quartz-mica-feldspar schist, knotted schist, calc-silicate rocks, crystalline limestone, meta-gabbro sills
- ARCHEAN**
- 7 Meta-gabbro dykes (north to northeast trending)
  - 6 Quartz monzonite to granite; minor granodiorite; massive to slightly foliated; may include some 15; 6a, foliated granodiorite to quartz monzonite; 6b, quartz monzonite to granodiorite with abundant bands or inclusions of grey granodiorite gneiss; 6c, granodiorite with amphibolite inclusions and bands; 6d, quartz diorite to granodiorite
  - 5 Grey biotite granodiorite gneiss; some biotite-hornblende granodiorite gneiss; 5a, hornblende-biotite granodiorite gneiss; 5b, banded gneiss; 5c, hypersthene-bearing granodiorite gneiss; biotite-hornblende-pyroxene gneiss to massive granodiorite; includes minor amounts of 5; 5d, diorite to granodiorite gneiss
  - 4 Paragneiss, some paraschist; may include some paragneiss 14; 4a, meta-arkose; 4b, hypersthene-bearing paragneiss
  - 3 Amphibolite, amphibolite gneiss; some meta-gabbro; 3a, melanocratic gneiss; 3b, chlorite schist; 3c, metamorphosed ultrabasic rock
  - 2 Greywacke, greywacke-conglomerate, argillite, phyllite; minor tuff; metamorphosed equivalents; may include minor paragneiss 4; 2a, quartz-magnetite iron-formation
  - 1 Metavolcanic rocks; meta-andesite, meta-basalt; minor agglomerate, meta-diorite to meta-gabbro, tuff, and felsic volcanics; may include some amphibolite 3 and greywacke 2; 1a, quartz latite; minor agglomerate and basic volcanic rocks; 1b, quartz-magnetite iron-formation

- Drift-covered area
- Rock outcrop; probable outcrop or observed from air
- Geological boundary (defined, approximate, assumed)
- Geological boundary (gradational)
- Limit of geological mapping
- Bedding, tops known
- Bedding, tops known (inclined, vertical, dip unknown)
- Pillows, tops known, tops unknown, vertical
- Schistosity, cleavage (inclined, vertical, dip unknown)
- Gneissosity, foliation (inclined, vertical, dip unknown)
- Lineation (inclined, horizontal)
- Lineation, axes of minor folds
- Fault (defined, approximate, assumed)
- Joint (inclined, vertical, horizontal)
- Anticline (defined, approximate, trace of axial plane, arrow indicates plunge)
- Syncline (defined, approximate, trace of axial plane, arrow indicates plunge)
- Mineral occurrence (py - pyrite; po - pyrrohoite; cp - chalcopyrite; mo - molybdenite)

Geology by K. E. Eade 1969, 1970

Prepared by the G. S. C. cartographic section in co-operation with the Automated Cartography Division, Surveys and Mapping Branch

Geological boundaries and colour separation by automated methods

Geological cartography by the Geological Survey of Canada

Base-map at the same scale published by the Army Survey Establishment, R. C. E., 1966

Copies of the topographical edition of this map may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0E9

Magnetic declination 1972, varies from 14° 11' easterly at centre of west edge to 10° 32' easterly at centre of east edge. Mean annual change +1.9'

Elevations in feet above mean sea-level

This map was first published as Map 4-1972 to accompany Paper 72-21. It has been converted into a multi-colour map as an experiment in computer assisted Cartography and was then published in colour as Experimental Map 2. As the cartography meets the high standards of quality normally required in conventional multi-colour geological maps it has been decided to publish this map in the GSC Preliminary Series. From the original preliminary map the geological contacts, folds and faults have been digitized at GSC by the computer assisted Cartography Unit. The cartographic files for the drawing and the cutting plots have been generated on the GSC terminal. The final drawing on scribe-coat and the cutting of peel-coats have been made on the Kongsberg Plotter at Surveys and Mapping Branch.

Universal Transverse Mercator Projection  
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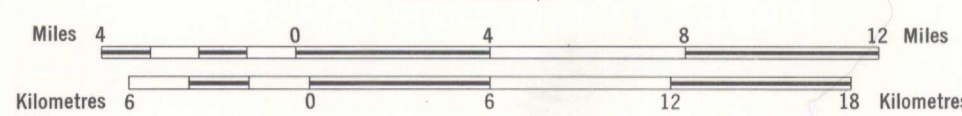


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MAP 4-1972  
 (Reprinted in colour, 1975)  
 GEOLOGY  
**NUELTIN LAKE**  
 DISTRICT OF KEEWATIN

Scale 1:250,000



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31-1962	35-1963	14-1967

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS  
 MAP 4-1972  
**NUELTIN LAKE**  
 DISTRICT OF KEEWATIN

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