



LEGEND

- HELIKIAN**
- 22 Gabbro and diabase dykes (northwest trending); 22a, biotite lamprophyre sills
- 21 Granite, pink, porphyritic, coarse grained, commonly fluorite-bearing (Nueltin Lake granite)
- APHEBIAN**
- 20 Granite, quartz monzonite, granodiorite; pink, medium grained; in part pegmatite
- 19 19a, dominantly quartzite and arkose; minor dolomite and argillite; 19b, dolomite to sandy dolomite, with interbedded quartzite, argillite, greywacke or phyllite. 19 may be lateral equivalent of 16
- HURWITZ GROUP (11 to 18)**
- 17 Gabbro sills
- 16 Impure quartzite, arkose, quartz-sericite schist, minor impure dolomite, greywacke, andesite; 16a, dolomite or sandy dolomite; 16b, arkose and conglomerate
- 15 Greywacke; minor siltstone
- 14 14a Dolomite, argillite, siltstone; some greywacke, 15, where undivided; 14a, quartz-jasper-hematite and quartz-magnetite iron-formation; 14b, tremolitized dolomite
- 13 Slate, shale, siltstone; minor greywacke
- 12 Orthoquartzite; minor arkose, pebble conglomerate
- 11 Boulder conglomerate, greywacke conglomerate, and greywacke
- MONTGOMERY LAKE GROUP (10)**
- 10 10a, boulder conglomerate; minor greywacke, gabbro; 10b, quartzite, impure quartzite, greywacke; 10c, siltstone
- 9 Gabbro, meta-gabbro, diabase, meta-dabase dykes, in part porphyritic; 9a, biotite lamprophyre dykes; 9b, feldspar porphyry dyke
- 8 Grey to pink granodiorite; quartz diorite, quartz monzonite, granite, granite pegmatite; 8a, hornblende-biotite quartz diorite; 8b, hornblende monzonite; 8c, syenite; 8d, breccia dyke
- 7 Granodiorite gneiss and granite gneiss; minor migmatite, paragneiss, and massive granodiorite
- 6 Quartz-feldspar-biotite schist and gneiss, may contain garnet or cordierite; paragneiss; minor amphibolite; 6a, quartz-hornblende-biotite schist and gneiss; minor amphibolite
- 5 Hornblende-chlorite-feldspar schist and gneiss; amphibolite
- HENIK GROUP (1 to 4) (not in stratigraphic sequence)**
- 4 Dolomite; minor phyllite
- 3 Iron-formation, jasper-hematite, siliceous magnetite-hematite, and quartz magnetite
- 2 Clastic rocks, greywacke, argillite, phyllite; tuff; minor conglomerate, quartzite, iron-formation, dolomite; 2a, lithic and crystal tuff, with minor greywacke and argillite; 2b, quartz-feldspar-mica schist and quartz-mica schist; 2c, conglomerate; 2d, meta-greywacke, varying to quartz-biotite-feldspar schist and gneiss
- 1 Volcanic rocks, andesite, dacite, basalt, rhyolite; gabbro, diorite; includes some tuff and other fragmental volcanic rocks; 1a, gabbro; meta-gabbro sills or dykes; 1b, serpentinite; 1c, rhyolite

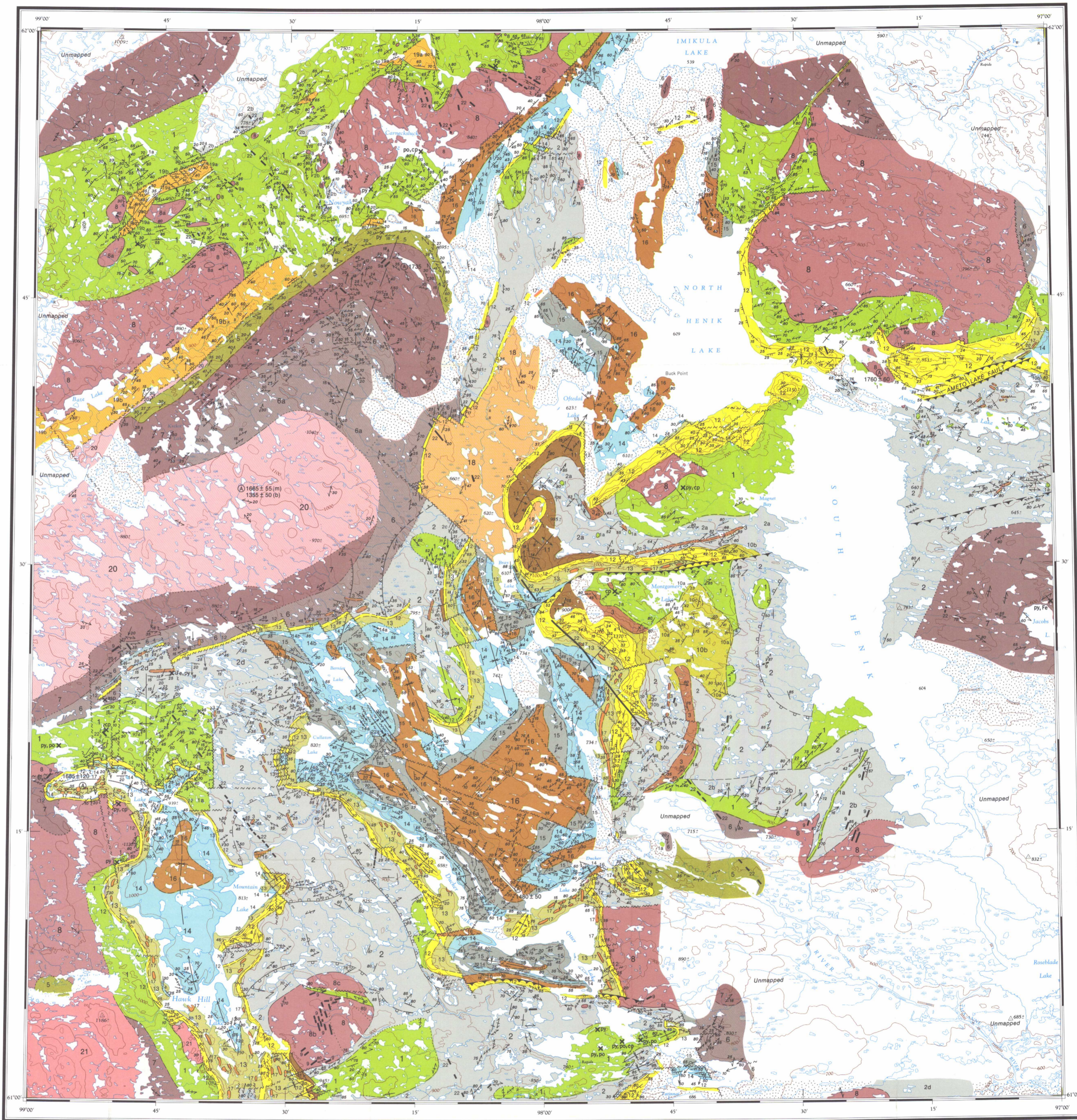
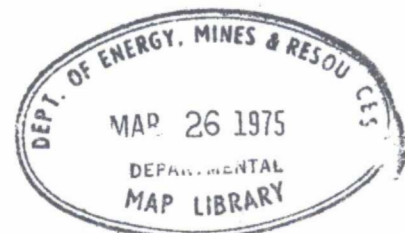
PROTEROZOIC

ARCHEAN

- Drift-covered area
- Geological boundary (defined, approximate, assumed)
- Bedding, tops known (horizontal, inclined, overturned)
- Bedding, tops unknown (inclined, vertical, dip unknown)
- Schistosity, gneissosity, cleavage, foliation (inclined, vertical, dip unknown)
- Lamination (inclined, inclined but plunge unknown)
- Fault (defined, approximate, assumed, from aeromagnetic information)
- Thrust fault (teeth in direction of dip; defined, assumed)
- Anticline (defined, approximate)
- Syncline (defined, approximate)
- Anticline and syncline (overturned)
- Anticline and syncline (arrow indicates plunge)
- Potassium - Argon age determinations in millions of years
- Mineral occurrence
- Boundary of metamorphic zones
- biotite isograd (biotite on irregular side of line) (defined, approximate)
- garnet isograd (garnet on irregular side of line) (defined, approximate)
- contact metamorphism (approximate, hachures within zone)

MINERALS

- Arsenopyrite asp Pyrite py
- Chalcocopyrite cp Pyrrhotite po
- Iron oxide (gossan) Fe



Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

Printed 1974



INDEX MAP

Geology by K.E. Eade, 1962-65

To accompany Memoir 377 by K.E. Eade

Geological cartography by the Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

MAP 1364A

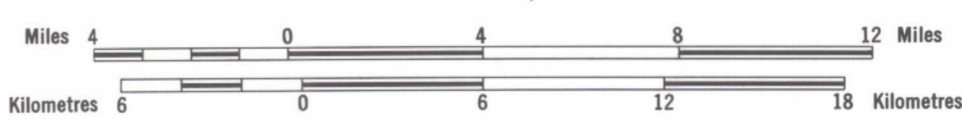
GEOLOGY

KOGNAK RIVER

(Watterson Lake, 65G_{E1/2} and Henik Lakes, 65HW_{1/2})

DISTRICT OF KEEWATIN

Scale 1:250,000



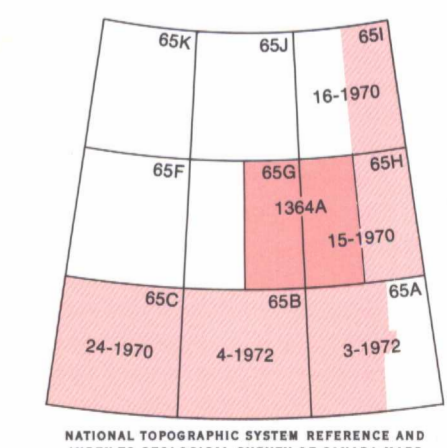
Universal Transverse Mercator Projection
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Base map from parts of Watterson Lake and Henik Lakes published at the same scale by the Army Survey Establishment, R.C.E., in 1961, 1965

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa

Mean magnetic declination 1973, 10°32' East, increasing 3.0' annually. Readings vary from 8°28' in the SE corner to 12°37' in the NW corner of the map area

Elevations in feet above mean sea-level



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

KOGNAK RIVER
DISTRICT OF KEEWATIN

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