Natural Resources Canada / Ressources naturelles Canada

GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

Published 1997

Figure 17: Geological map of the Richards Bay area, District of Franklin, Northwest Territories

Scale 1:50 000 - Échelle 1/50 000

Kilometres 1 0 1 2 3 4 Kilomètres

Universal Transverse Mercator Projection
Projection transverse universelle de Mercator

© Crown Copyrights reserved
© Droits de la Couronne réservées

LEGEND

PHANEROZOIC

QUATERNARY

- **Q** — *Till, marine sand and clay unconsolidated*

PROTEROZOIC

- **Pd** — *Diabase, unaltered*

FURY AND HECLA GROUP

- **PFH** — *Quartzite, shattered, chalky white*

ARCHEAN

- **Ag** — *Biotite granite, local agmatite*
- **Am** — *Metagabbro, local amphibolite*

PRINCE ALBERT GROUP

- **AMS** — *MOUNT SABINE FORMATION: basic-ultrabasic metavolcanics, metasediments, coarse volcaniclastics, basic metavolcanics. (1.8 km thick)*
- **ARB** — *RICHARDS BAY FORMATION: iron-formation metasediments, basic metavolcanics, polymictic breccia, quartzite. (1.0 km thick)*
- **AA** — *ADGE-GO FORMATION: iron-formation, intermediate metavolcanics, interbedded metasediments. (2.2 km thick)*

Geological contact (known, approximate, assumed)

Bedding, top known (inclined, overturned, dip unknown)

Bedding, top unknown (horizontal, inclined)

Pillow facing (dip of flow known)

Layering of uncertain origin: may include modified bedding, gneissosity, transposition foliation (inclined, vertical)

Foliation, cleavage, schistosity, transposition foliation (inclined, vertical)
- *first generation*
- *second generation*

Intersection lineation (inclined)

Lineation, mineral or elongation of clasts or pillow
- *first generation*
- *second generation*

Fold asymmetry (S, Z, M viewed down plunge)

Fault trace

Trend of layering from airphotos

Air photo linear
- *probably joints, shears or minor faults*
- *possibly mafic dykes*

Ultramafic dykes and sills

Iron-formation

Metamorphic isograds (ornamentation on high grade side)
- *first appearance of metamorphic recrystallization of quartz*
- *first appearance of garnet*

Note: for combined symbols, the intersection marks location of observation

MINERAL OCCURRENCES

Chalcopyrite and alteration products	**cu**
Galena	**pb**
Garnet	**gt**
Staurolite	**st**

Geology by R.G. Blackadar, 1960; W.W. Heywood, 1973, 1974; W.L. Davidson, 1973; D. Proudfoot, 1973; M. Schau, 1975, 1977, 1984, 1986

Geological compilation by M. Schau, 1987

Digital map compilation by M. Schau, 1990, Geological Survey of Canada

To accompany GSC Bulletin 385 by M.Schau

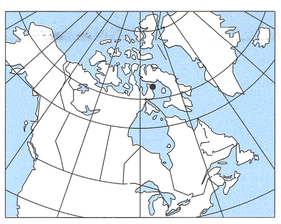
Digital cartography by the Geoscience Information Division

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

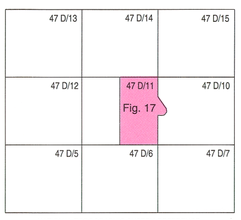
Base map from Geomatics Canada, modified by the Geological Survey of Canada

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

Magnetic declination 1997, 43° 32′ decreasing 25.9′ annually



LOCATION MAP



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

Canada

This document was produced by scanning the original publication.

Ce document est le produit d'une numérisation par balayage de la publication originale.