scanned image

MINERAL DEVELOPMENT DIVISION
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

2 D/4 — 1:50,000 — 2 D/4

LEGEND

Surficial deposits omitted

DEVONIAN(?)

9 — **Partridgeberry Hills Granite: 9a,** *Medium to coarse grained, chloritized and sericitized, perthitic microcline granite;* **9b,** *contact zone of intimately mixed schist and granite.*

8 — **Rocky Bottom Tonalite:** *Hornblende tonalite with coarse grained biotite.*

7 — *Granodiorite, containing biotite and hornblende or biotite and muscovite, and associated with garnet-muscovite aplite veins;* **7a, North Bay Granite; 7b, Missing Island Granodiorite; 7c, Matthews Pond Granodiorite.**

MIDDLE ORDOVICIAN OR LATER

6 — *Mafic plutonic rocks;* **6a,** *olivine gabbronorite;* **6b,** *hornblende granodiorite, both of* **Round Pond Gabbronorite; 6c,** *diorite.*

5 — *Diabase dikes.*

MIDDLE ORDOVICIAN

Baie d'Espoir Group

4 — **North Steady Pond Formation: 4a,** *Graded volcaniclastic sandstone beds and green-gray siltstone and pelite; locally includes felsic pyroclastic rocks;* **4b,** *conglomerate;* **4c,** *felsic and intermediate volcanic flows;* **4d,** *mafic volcanic rocks.*

3 — **St. Josephs Cove Formation: 3a,** *Thinly bedded pelite and siltstone, with minor thickly bedded sandstone:* **3b,** *green-gray pelite and siltstone;* **3c,** *graphitic slate and siltstone;* **3d,** *felsic pyroclastic rocks of* **Twillick Brook Member.**

2 — **Riches Island Formation: 2a,** *Green-gray pelite and siltstone;* **2b,** *graphitic slate and siltstone;* **2c,** *quartzite and psammite.*

1 — **Salmon River Dam Formation:** *Thinly, medium and thickly bedded siltstone, with thinly bedded sandstone and calc-silicate beds, and minor pelite.*

Note: *Units 2, 3 and 4 are interpreted to be laterally equivalent; both units 3 and 4 lie conformably on unit 1.*

SYMBOLS

Geological boundary (defined, approximate, assumed)

Bedding, tops known (horizontal, inclined, vertical, overturned)

Bedding, tops unknown (horizontal, inclined, vertical)

Primary igneous foliation (horizontal, inclined, vertical)

Cleavage; schistosity, first deformation (horizontal, inclined, vertical)

Cleavage; second deformation (horizontal, inclined, vertical)

Cleavage; in contact zone of Partridgeberry Hills Granite, probably derived from first cleavage of Baie d'Espoir Group (horizontal, inclined, vertical)

Axis of minor fold; first deformation; sense of vergence observed looking along arrow; facing direction may be indicated — Faces Up

Axis of minor fold; second deformation; sense of vergence observed looking along arrow

Axis of fold; first deformation (defined, approximate)

Axis of anticline; first deformation (defined, approximate)

Lineation; first deformation; S, bedding-cleavage intersection; sense of vergence observed looking along arrow; facing direction of beds on cleavage may be indicated — Faces Up

Lineation; second deformation; S, intersection of planar surfaces; C, microcrenulations; sense of vergence observed looking along arrow.

Sense of vergence, deduced from minor folds, or bedding-cleavage and cleavage-cleavage intersections; to be observed from south; F_1, F_2 indicate period of deformation.

Fault (defined, approximate, assumed)

Rock outcrop, where not otherwise indicated by geological symbol.

Mineral occurrence; cp, chalcopyrite; po, pyrrhotite; py, pyrite.

Note: *Deformation is described as "first" or "second" with respect to the Baie d'Espoir Group.*

Geology by S.P. Colman-Sadd (1977, 1978).

To accompany Report 79-2.

Geological cartography by Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

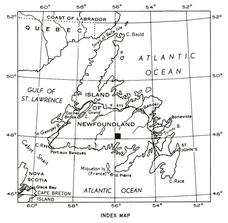
Copies may be obtained from the Publications and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland A1C 5T7.

Base map at same scale published by Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1971.

Drainage and roads updated, approximately, to 1978 by Mineral Development Division, Department of Mines and Energy, St. John's, Newfoundland.

Approximate magnetic declination, 1969, for centre of map, 28°51' west, decreasing 2.8' annually.

This project was financed under the Canada/Newfoundland Mineral Development Subsidiary Agreement (1977-1981), by contributions from the Government of Newfoundland and Labrador (10 percent) and from the Departments of Regional Economic Expansion (45 percent) and Energy, Mines and Resources (45 percent) of the Government of Canada.



INDEX MAP

Produced by the SURVEYS AND MAPPING BRANCH, DEPARTMENT OF ENERGY, MINES AND RESOURCES, Compiled from aerial photographs taken in 1966 and 1968
Printed 1978

Roads — Routes

loose or stabilized surface, all weather — gravier aggloméré, toute saison — Chemins de montagne / Caminos de montaña — Weather Stations / Stations météorologiques

loose surface, dry weather and unclassified streets — de gravier, temps sec, et rues hors classe

Cart track — de terre

trail or portage — sentier ou portage

MAP 795
TWILLICK BROOK
NEWFOUNDLAND

Scale 1:50,000 Échelle

Miles 0 1 2 3 Milles
Metres 1000 0 1000 2000 3000 4000 Mètres
Yards 1000 0 1000 2000 3000 4000 Verges

2 D/4