

LEGEND

PROVISIONAL MAP
11 P/16
1:50,000

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

CANADA
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Energy, Mines and Resources Canada
Energie, Mines et Ressources Canada
Geological Survey of Canada
Commission géologique du Canada

EDITION 2

CARTE PROVISOIRE
11 P/16

- DEVONIAN OR YOUNGER**
- 8 Massive diabase dikes.
- DEVONIAN**
- 7 Massive, leucocratic, biotite microgranite dikes.
- SILURIAN-DEVONIAN**
- NORTH BAY GRANITE (Units 5 and 6)**
- 6f Buff to orange, massive to weakly foliated, coarse grained, K-feldspar megacrystic, biotite granite.
 - 6e Buff to pink, weakly foliated, medium grained, K-feldspar porphyritic, biotite-muscovite granite.
 - 6d Buff to orange, massive to weakly foliated, medium grained, K-feldspar porphyritic, biotite granite.
 - 6c Pink to orange, foliated, medium grained, equigranular, biotite-muscovite granite.
 - 6b Grey, massive to weakly foliated, medium grained, K-feldspar porphyritic, biotite + muscovite granodiorite; contains numerous screens of migmatite (Unit 3c).
 - 6a Grey, massive to weakly foliated, medium grained, equigranular, biotite + muscovite granodiorite; contains numerous screens of migmatite (Unit 3c) and metasediments of Unit 3b.
 - 5 Mainly strongly deformed to protomylonitic, pink to buff, medium grained, K-feldspar porphyritic, biotite granite; also includes extensive areas of foliated muscovite-garnet granite and pegmatite; also contains locally abundant xenoliths of migmatitic granodiorite (Unit 3c); deformation decreases in intensity towards the southern contact where the granites are weakly foliated.
- SILURIAN**
- 4 Medium bedded, grey to green slate, sandstone and pebble conglomerate (not exposed within map area).
- LOWER TO MIDDLE ORDOVICIAN**
- BAYE D'ESPOIR GROUP**
- 3c Migmatite, locally with sillimanite porphyroblasts; probably derived from Units 3a and 3b.
 - 3b Riches Island Formation: Highly deformed, generally lower amphibolite to upper greenschist facies biotite-muscovite-garnet + staurolite + sillimanite + andalusite semipelite and psammitic schist, with minor graphitic pelite; intruded by numerous dikes of Unit 6a and granitic pegmatite.
 - 3a Salmon River Dam Formation
 - 3a1 Thin to medium bedded, cleaved, grey to cream coloured, sandstone, calcareous sandstone and siltstone with minor thickly bedded limestone; metamorphosed in the lower greenschist facies.
 - 3a11 Thinly bedded, strongly cleaved, commonly rusty coloured, biotite pelite.
 - 2 Spruce Brook Formation
 - Highly deformed psammitic and semipelite schist intruded by strongly deformed and foliated granitoid dikes. Locally consists of phyllitic tuff and pelite.
- LOWER ORDOVICIAN**
- 1 Highly sheared, cream to rust coloured, chromite-bearing magnetite.

SYMBOLS

- Geological contact - defined, approximate, assumed, gradational
- Fault - defined, assumed
- Hedding - tops known, unknown, vertical (top unknown)
- Cleavage or schistosity - first generation (inclined, vertical), second generation (inclined, vertical)
- Migmatitic foliation - inclined, vertical
- Full plunge - first generation, second generation, separate distribution and amount of plunge
- Geological sample location
- Location of top, bottom area
- Glacial-fluvial outwash
- Glacial striation (direction of ice flow known)
- Diabase dike
- Microgranite dike
- Quartz vein

Geology by W.L. Dickson and S.L. Tomlin, 1982. Released April, 1984.

Contribution to the Canada Newfoundland Co-operative Minerals Program 1983-1984. Project funded by Geological Survey of Canada and the Newfoundland Department of Mines and Energy.

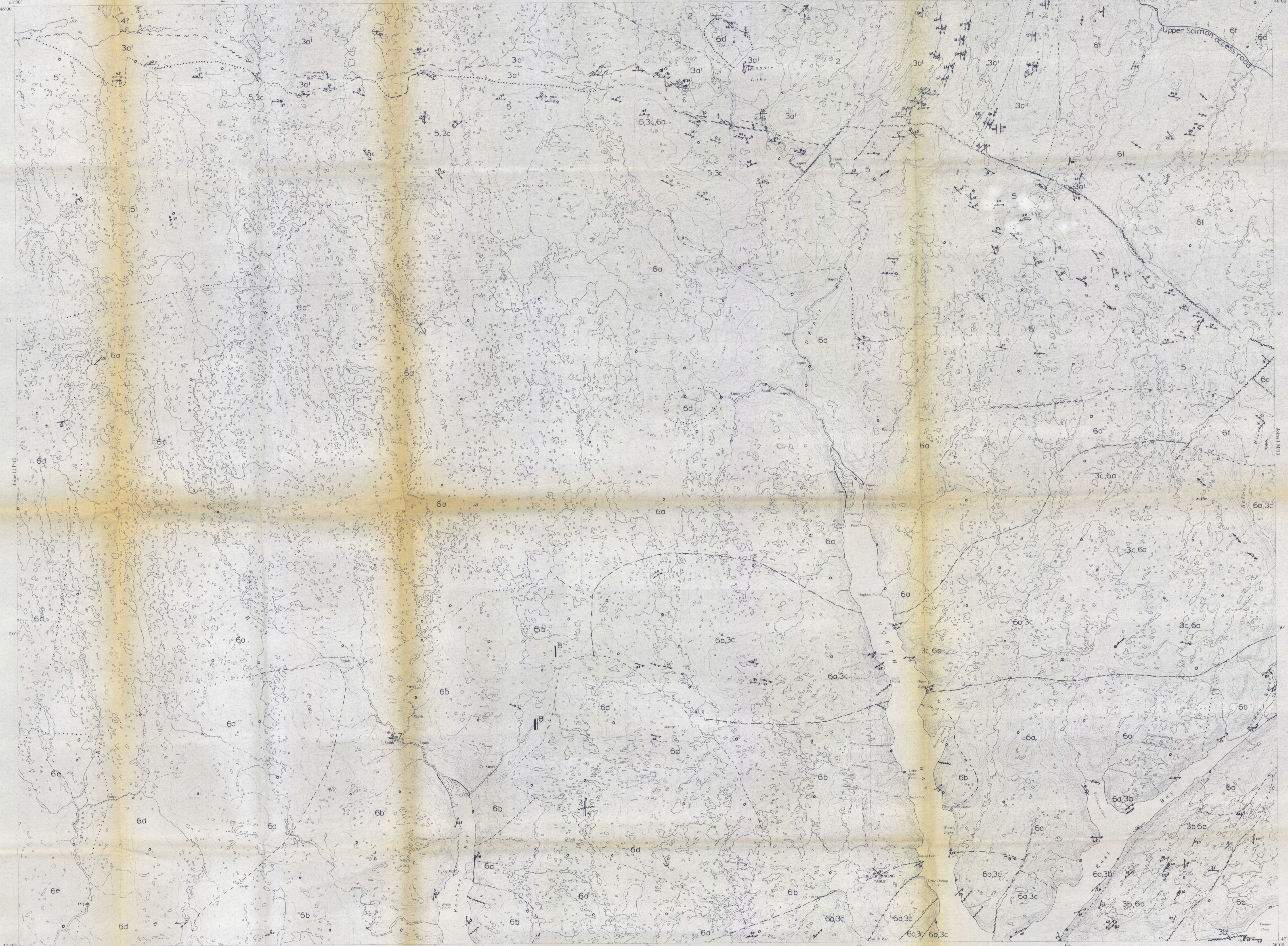
This preliminary map is subject to revision.

Base map at same scale published by Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1973.

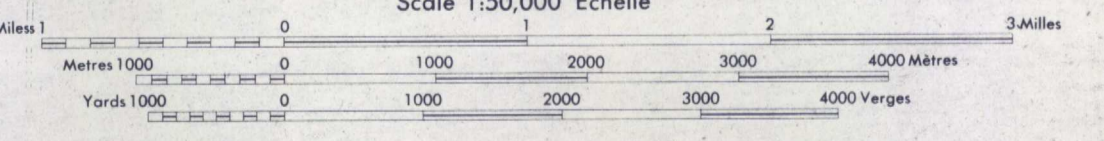
Approximate Magnetic Declination 1984 for centre of map 11P/16 is 27°36', decreasing 2.7' annually.

Copies of this map 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, and from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0P8, and from R.G. Campbell Corporation, 880 Wellington St., Bay 238, Ottawa, Ontario K1R 0K7.

G.S.C. Open File # 1030 D'Esprit Brook.



D'ESPOIR BROOK
HERMITAGE DISTRICT
NEWFOUNDLAND



This Provisional Map is equivalent to a standard map of accuracy of content.

Some names on this map are not official. Corrections or additions are invited by the Surveys and Mapping Branch.

Consultation: 1000-1000
Édition: à l'échelle de 1:50 000
Niveau: non corrigé (juin 1981)

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

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MAP 84-28

