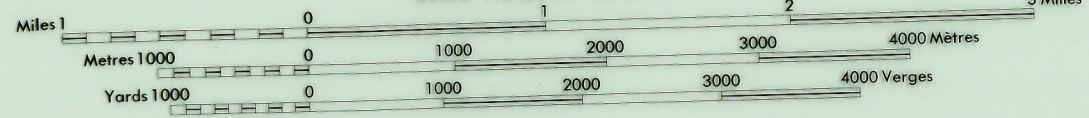


**MIGUELS LAKE
NEWFOUNDLAND**

Scale 1:50,000 Echelle



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

2 D/12
53°30'
48°45'

LEGEND

DEVONIAN OR OLDER

- 31 Conglomerate with minor sandstone beds
- 30 Granite 30a, Overflow Pond Granite, garnetiferous biotite granite; 30b, pegmatitic garnetiferous muscovite granite; 30c, medium grained biotite-muscovite granite
- 29 Mount Peyton intrusive suite: grey, porphyritic, biotite granite
- 28 Diabase dykes

SILURIAN

STONY LAKE VOLCANIC ROCKS (Units 17-27)

Relative times of extrusion or deposition are uncertain.

- 27 Grey rhyolite with quartz phenocrysts predominating over feldspar phenocrysts
- 26 Dark grey to black rhyolite (?) with white, rectangular feldspar phenocrysts predominating over quartz phenocrysts; 26a, flow banded rhyolite and strongly flattened tuff; 26b, massive lapilli tuff and tuff breccia with many accidental fragments; 26c, moderately to strongly flattened lapilli tuff; 26d, tightly foliated, strongly flattened lapilli tuff
- 25 Dark grey to dark green rhyolite (?) tuff and lapilli tuff with white rectangular feldspar crystals predominating over quartz crystals; contains numerous accidental fragments of pink rhyolite
- 24 Grey to purple rhyolite (?); 24a, flow banded; 24b, breccia
- 23 Pink and purple feldsparphyric rhyolite; 23a, flows, locally flow banded or brecciated; 23b, rhyolite blocks in grey to green fine grained matrix; 23c, lapilli tuff
- 22 Light to reddish purple feldsparphyric rhyolite; 22a, flow banded; 22b, breccia; 22c, lapilli tuff; 22d, tuff
- 21 Grey rhyolite; 21a, flow banded; 21b, tuff
- 20 Medium grained quartz and feldspar rhyolitic crystal tuff
- 19 Mainly buff, but locally green or purple, feldsparphyric, trirhyolitic rhyolite; 19a, flow banded; 19b, breccia
- 18 Grey sphanitic rhyolite breccia
- 17 Siltstone and sandstone; 17a, grey; 17b, red, locally with mudcracks; 17c, grey, containing blocks of rhyolite and lapilli tuff

BOTWOOD GROUP (Units 15-16)

- 16 Red sandstone and siltstone
- 15 Green-grey and maroon interbedded sandstone, siltstone and shale, with cross and parallel laminations, ripple marks and mudcracks
- 14 ROGERSON LAKE CONGLOMERATE: No reliable exposure, outcrop extrapolated from Noel Paul's Brook area

MIDDLE ONDOVICIAN AND OLDER

DUNNAGE ZONE

VICTORIA LAKE - BAIE D'ESPOIR GROUPS (Units 11-13)

- 13 NORTH STEADY POND FORMATION: Undivided felsic volcanic rocks, conglomerate and sandstone
- 12 TALLY POND FORMATION: Interbedded felsic crystal tuff and lapilli tuff
- 11 SALMON RIVER DAM FORMATION (?): Interbedded purple-grey sandstone and minor shale

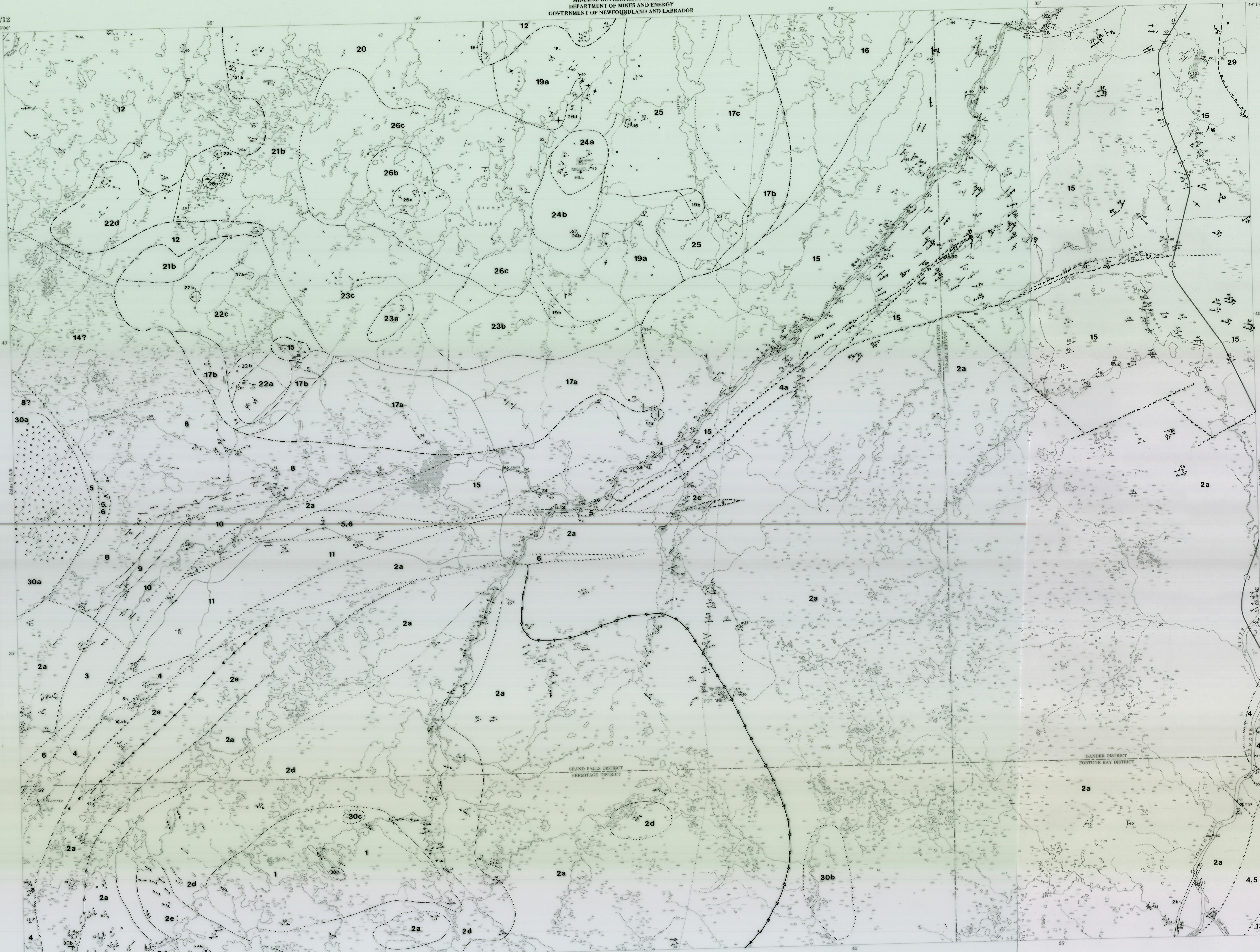
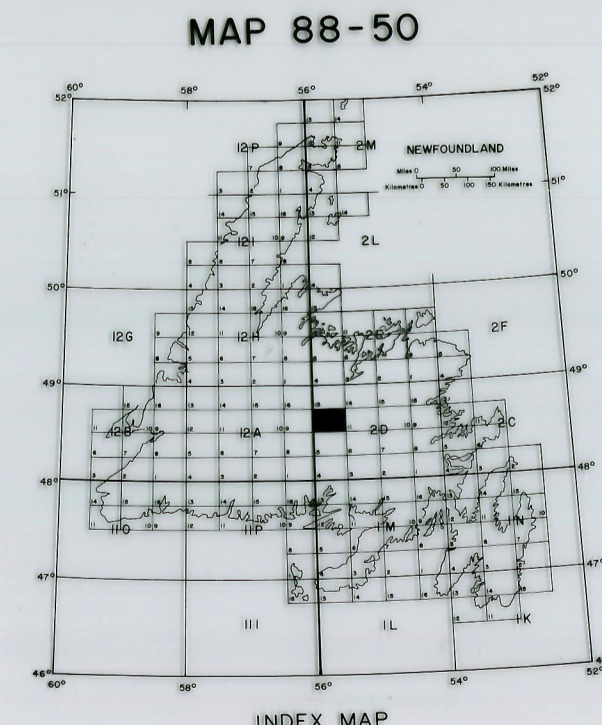
PIPESTONE POND COMPLEX AND RELATED ROCKS (Units 4-10)

- 10 Black shale with thin sandstone and siltstone beds
- 9 Conglomerate, composed mainly of mafic volcanic clasts
- 8 Mafic pillow, lava, breccia and tuff; 8a, brecciated and mylonitized mafic volcanic rocks
- 7 Trondhjemite
- 6 Gabbro
- 5 Pyroxenite; includes unseparated magnetite-rich derivatives
- 4 Harzburgite and dunite; includes unseparated magnetite-rich derivatives; 4a, tectonic m range of altered ultramafic rocks and metasedimentary rocks

GANDER ZONE

- 3 Strongly deformed biotite granite
- 2 SPRUCE BROOK FORMATION: 2a, Medium to thick bedded grey quartzitic sandstone, interbedded with thin to medium bedded grey siltstone and grey to black shale and schist; 2b, impure fossiliferous sparry limestone conglomerate, locally pyritiferous; 2c, conglomerate; 2d, magnetite probably derived from 2a, 2b, banded semipelite paragneiss
- 1 Migmatitic, interbedded, sillimanite schist, amphibolite and granitic gneiss

Geology by S. P. Colman Seck and H.A.J. Russell (1981).
 Geological cartography by Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.
 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.
 Base map at same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1971.
 Elevations in feet above mean sea level.
 Approximate magnetic declination, 1989, for centre of map 20° 15' west, decreasing 2.9' annually.
 This project was financed under the Canada/Newfoundland Mineral Development Subsidary 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.



Geological boundary (defined, approximate, assumed)	Diagonal lines	Mafic dikes	Two parallel lines	Sense of vergence, deduced from minor folds or bedding cleavage intersections; to be observed from south; arrow indicates facing direction	Arrow with line
Unconformity	Wavy line	Cleavage, schistosity, first deformation (horizontal, inclined, vertical)	Single line with ticks	Faults (defined, approximate, assumed)	Line with ticks and arrow
Bedding, tops known (horizontal, inclined, overturned)	Line with ticks	Cleavage, second deformation (horizontal, inclined, vertical)	Double line with ticks	Andalusite isograd (triangles point upgrate)	Line with triangles
Bedding, tops unknown (horizontal, inclined, vertical)	Line with ticks	Gneiss: foliation (horizontal, inclined, vertical)	Line with ticks	Sillimanite isograd (triangles point upgrate)	Line with triangles
Igneous flow banding (horizontal, inclined, vertical)	Line with ticks	Gneiss: banding (horizontal, inclined, vertical)	Line with ticks	Rock exposures, where not indicated by other symbol	Small circle
Igneous flow banding (horizontal, inclined, vertical) (NOTE: in all exposures attitude of flow banding is extremely variable)	Line with ticks	Axis of minor fold	Line with ticks	Mineral occurrence: mg, magnetite; mh, asbestos; cr, chromite	X
Entaxitic foliation (horizontal, inclined, vertical)	Line with ticks	Axis of minor fold, second deformation	Line with ticks	Fossil occurrence	Circle with dot
		Lineation; S, intersection lineation	Line with ticks		

20/12/1977
Map # 88-50