

LEGEND

DEVONIAN AND YOUNGER

- 25 Massive diabase dykes
- 24 Quartz veins
- 23 Pink to buff, massive, very fine- to fine-grained, quartz - sandine porphyry dykes

SILURIAN - DEVONIAN

- 22 Massive, leucocratic, biotite microgranite dykes
- NORTH BAY GRANITE SUITE (Units 8 to 21)**
- 21 Pink to buff, weakly foliated, medium grained, equigranular to feldspar porphyritic, muscovite - biotite granite
- 20 UPPER SALMON ROAD GRANITE: Grey to pink, massive to weakly foliated, K-feldspar porphyritic, biotite granite
- 19 Pink, massive to weakly foliated, medium grained, K-feldspar porphyritic, muscovite - biotite ± garnet granite 19a, DOLLAND POND GRANITE, 19b, MORGAN BROOK GRANITE, 19c, HUGHES BROOK GRANITE, 19d, D'ESPOIR LAKE GRANITE
- 18 WOLF MOUNTAIN GRANITE: Pink to buff, massive to weakly foliated, coarse grained, K-feldspar porphyritic, muscovite - biotite granite
- 17 Pink to buff, massive to weakly foliated, coarse grained, K-feldspar porphyritic, biotite granite; 17a, DOLLAND BROOK GRANITE; 17b, FACHEUX BAY EAST GRANITE
- 16 WOLF LAKE GRANITE: White to buff, massive, coarse grained, equigranular, garnet - biotite - muscovite granite
- 15 Buff, massive, medium grained, equigranular, muscovite - biotite granite
- 14 MEELPAEG LAKE GRANITE: Buff, weakly foliated to massive, medium grained, equigranular, biotite ± muscovite granite and granodiorite
- 13 Pink to orange, foliated, medium grained, equigranular, muscovite - biotite granite
- 12 BOTTOM BROOK GRANITE: Grey to orange, weakly foliated to massive, feldspar porphyritic, biotite ± muscovite granite and granodiorite
- 11 EAST BAY GRANITE: Grey to buff, weakly foliated to massive, medium grained, equigranular, biotite ± muscovite granite and granodiorite; commonly contains screens of migmatite
- 10 WOLF LAKE NORTH GRANODIORITE: Grey to buff, foliated, medium grained, equigranular to feldspar porphyritic, biotite granodiorite; commonly contains screens of migmatite
- 9 D'ESPOIR BROOK GRANITE: Pink to white, strongly foliated to massive, medium- to coarse-grained, equigranular, garnet - biotite - muscovite granite; locally contains abundant granite pegmatite
- 8 Pink to buff, strongly foliated, coarse grained, microcline porphyritic, biotite granite

SILURIAN

- BURGEON GRANITE (Units 6 and 7)
- 7 Pink, protomylonitic to mylonitic, K-feldspar porphyroclastic granite
- 6 Pink, very strongly foliated to protomylonitic, medium grained, equigranular, muscovite - biotite granite

SILURIAN?

- 5 Interbedded sandstone, siltstone and slate, and polymict pebble conglomerate; minor, thickly bedded, subangular, polymict cobble conglomerate

LOWER TO MIDDLE ORDOVICIAN

BAY DU NORD GROUP

- 4 Highly deformed, migmatitic metasediment and psammite cut by numerous granite veins, dykes and plugs

BAIE D'ESPOIR GROUP (Units 3a to 3h)

- NORTH STEADY POND FORMATION (Units 3e to 3h)**
- 3h Grey and green, thin bedded, slate and minor sandstone
- 3g Very thickly bedded, brown weathering, grey, massive sandstone and minor interbeds of Unit 3f
- 3f Thin bedded, black, highly folded and quartz veined, graphitic slate and siltstone
- 3e Very thickly bedded, schistose, quartz - feldspar crystal tuff and coarse grained, epiclastic sandstone
- RICHES ISLAND FORMATION (Units 3c and 3d)**
- 3d Migmatite locally with sillimanite porphyroblasts; probably derived from Unit 3c
- 3c Highly deformed, highly metamorphosed, pelitic, semipelitic and psammite schist; intruded by numerous dykes of East Bay Granite

SALMON RIVER DAM FORMATION (Units 3a and 3b)

- 3b Thin bedded, strongly cleaved, commonly rust coloured, biotite pelite
- 3a Thin- to medium-bedded, well-cleaved, grey to cream coloured, thin- to medium-bedded sandstone, calcareous sandstone and siltstone, and thick bedded limestone
- SPRUCE BROOK FORMATION (Units 2a to 2e)**
- 2e Highly deformed, psammite and semipelitic schist and minor phyllitic rhyolitic tuff; locally intruded by strongly foliated granitoid dykes
- 2d Migmatite and biotite psammite intruded by numerous weakly foliated granitoid dykes; high-grade equivalent of Units 2a and 2b
- 2c Clast-supported, orthoquartzite cobble conglomerate and minor matrix-supported, slate- and quartzite-pebble breccia and coarse sandstone; minor lapilli tuff
- 2b Thin bedded, grey to black pelite and minor psammite and semipelite
- 2a Biotite psammite and orthoquartzite; minor semipelite

LOWER ORDOVICIAN OR OLDER

- 1 Highly sheared and quartz-veined, chromite-bearing magnesite

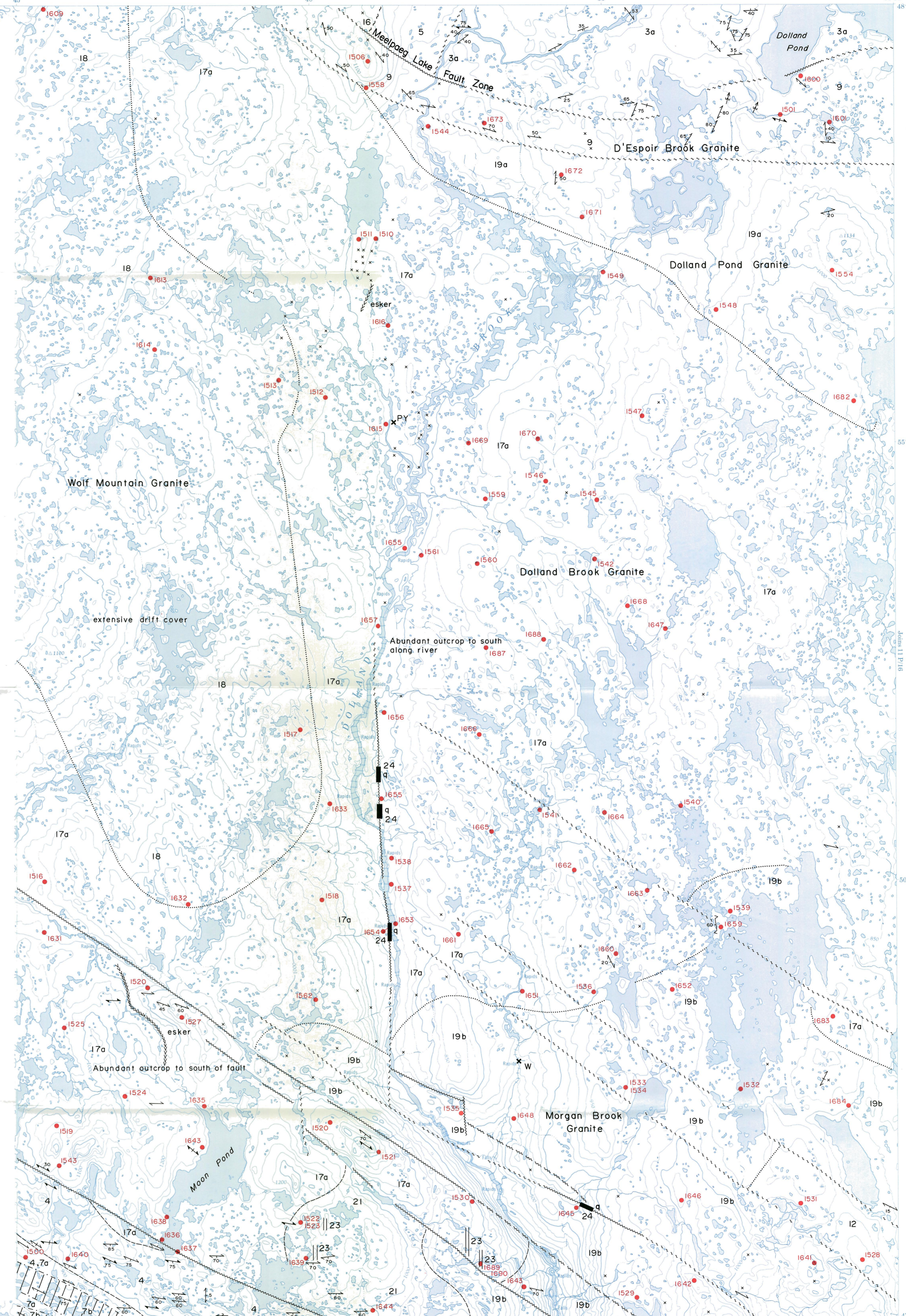
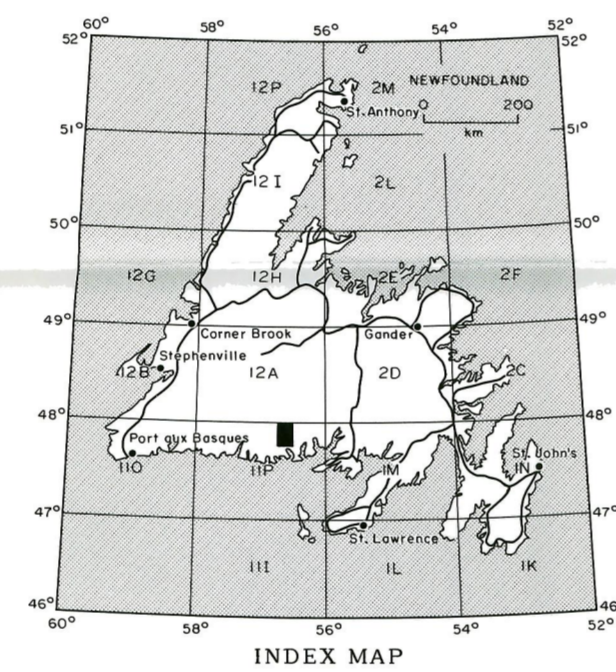
Note: Legend is common to NTS maps 11P/15E, 11P/16 and 12A/2E. Therefore all units may not appear on each map.

SYMBOLS

- Geological contacts (defined, approximate, assumed, gradational).....
- Bedding, tops known (inclined, overturned).....
- Bedding, tops unknown (inclined, overturned).....
- Fault (defined, approximate, assumed).....
- Cleavage or schistosity
- regional first generation (inclined, vertical).....
- regional second generation (inclined, vertical).....
- Migmatitic foliation (inclined, vertical).....
- Fold plunge - first generation, second generation, migmatite, (direction and amount of plunge).....
- Geochemical sample location and number (sample numbers prefixed by 224xxx in data listings).....
- Outcrop area.....
- Isolated outcrop.....
- Glaciofluvial outwash.....
- Glacial striation (direction of ice flow known).....
- Diabase dyke.....
- Microgranite dyke.....
- Quartz vein.....

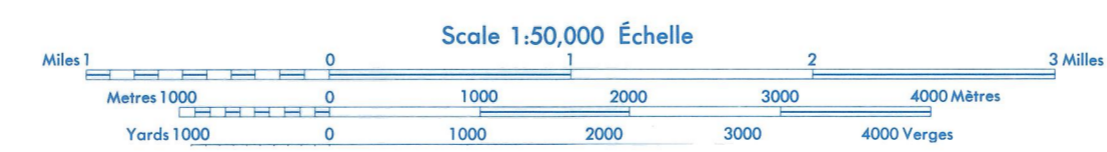
MINERAL OCCURRENCES

- Quartz.....q
- Pyrite.....py
- Scheelite.....W



Geology by W.L. Dickson, S.L. Tomlin and P.W. Delaney, 1983, 1984.
 Geological cartography by Drafting Section, Geological Survey Branch, Department of Mines and Energy, Government of Newfoundland and Labrador.
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 Base map at same scale published by Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1973.
 Approximate magnetic declination, 1989, for centre of map 11P/15 is 26°26.5'W, decreasing 2.7' annually.

MAP 89-101
GEOLOGY OF THE DOLLAND BROOK (EAST HALF) MAP AREA WITH
GEOCHEMICAL SAMPLE SITES



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