

001M/0349

PLEASE RETURN TO
Provincial Records Centre
Bldg. 1050, Pleasantville
58235
001M/0349
Box 16924 37
11 18 06 3

EDITION 2

1 M/12



GOVERNMENT OF
NEWFOUNDLAND AND LABRADOR
Department of Natural Resources
Geological Survey Branch

GEOLOGY OF THE WESTERN CONNAIGRE PENINSULA, NEWFOUNDLAND (Parts of NTS 1M/12 and NTS 1M/5)

MAP 94-243
SCALE 1:50 000

Compiled by

S.J. O'Brien and C.F. O'Driscoll
1994

OPEN FILE 001M/0349

Incorporating data (1991 - 1993) of S.J. O'Brien and C.F. O'Driscoll and unpublished geochronology of R.D. Tucker and G.R. Dunning.

Main compilation sources: Greene, 1975; Greene and O'Driscoll, 1976; O'Driscoll, 1977; Colman-Sadd *et al.*, 1979; O'Brien *et al.*, 1992; other sources: Graves, 1986; Collins, 1988; Simpson, 1990.

LEGEND

MIDDLE PALEOZOIC

DEVONIAN

19 OLD WOMAN STOCK: pink, medium- and coarse-grained, porphyritic biotite granite; minor apatite

18 POOLS COVE FORMATION: red pebble- to boulder conglomerate

17 CING ISLES FORMATION: red micaceous sandstone; red and grey quartz-pebble conglomerate; red shale; red and grey limestone

DEVONIAN ?

PASS ISLAND GRANITE (unit 16)

16 pink, medium- to coarse-grained, biotite-hornblende granite

DEVONIAN OR LATE NEOPROTEROZOIC

15 pink, medium- to coarse-grained, mainly equigranular, biotite granite (Taylor Bay Hills phase of Harbour Breton Granite); 15a: medium-grained, porphyritic hornblende granite

LATE NEOPROTEROZOIC

570 Ma and earlier

14 dark grey, green, black and black-and-white, medium- to coarse-grained and pegmatitic gabbro; 14a: fine- to medium-grained diorite

HARBOUR BRETON GRANITE

13 pink, medium- to coarse-grained, mainly equigranular, biotite granite

HARDY'S COVE GRANITE (unit 12)

12 pink to orange, medium grained equigranular granite; 12a: buff to grey granodiorite; locally with unseparated felsite; 12b: grey to green, medium-grained diorite

GROLE INTRUSIVE SUITE

11 unseparated black and dark green to grey, medium- to coarse-grained gabbro and grey, medium-grained quartz diorite and diorite, locally banded; minor granodiorite and pink granite, the latter mainly as net-veins

620 Ma and earlier

SIMMONS BROOK INTRUSIVE SUITE (units 9 and 10)

10 unseparated, grey, medium-grained, equigranular, hornblende-biotite granodiorite and tonalite; minor gabbro

9 dark grey to green, fine- to medium-grained diorite

CONNAIGRE BAY GROUP (units 6-8; in increasing stratigraphic order)

8 DOWNS POINT FORMATION: red to purple, graded and cross-bedded sandstone and pebble to cobble conglomerate; red laminated siltstone; 8a: pink to purple massive rhyolite and silicic tuff and breccia

7 DOUGHBALL POINT FORMATION: grey to green massive andesite and basalt; green rhyolite tuff and agglomerate; minor silicic flows and fine-grained pyroclastic rocks; hornfels

6 SAM HEAD FORMATION: grey and green, well-bedded and internally laminated siltstones and sandstones; grey and more rarely red, polymictic pebble to boulder conglomerates at or near the base of the formation; rare limestone

CONNAIGRE BAY GROUP ? (may include sub-Connaigre Bay Group basement rocks)

5 Unnamed volcanic-clastic sequence: unseparated dark grey and green, massive to layered mafic tuffs and grey and green tuffaceous sandstone and siltstone; minor basalt

4 Unnamed metamorphic sequence: metasedimentary and metavolcanic rocks, including psammite, massive to foliated amphibolite and rare mylonitic paragneiss; minor unseparated granodiorite and diorite

670 Ma and earlier

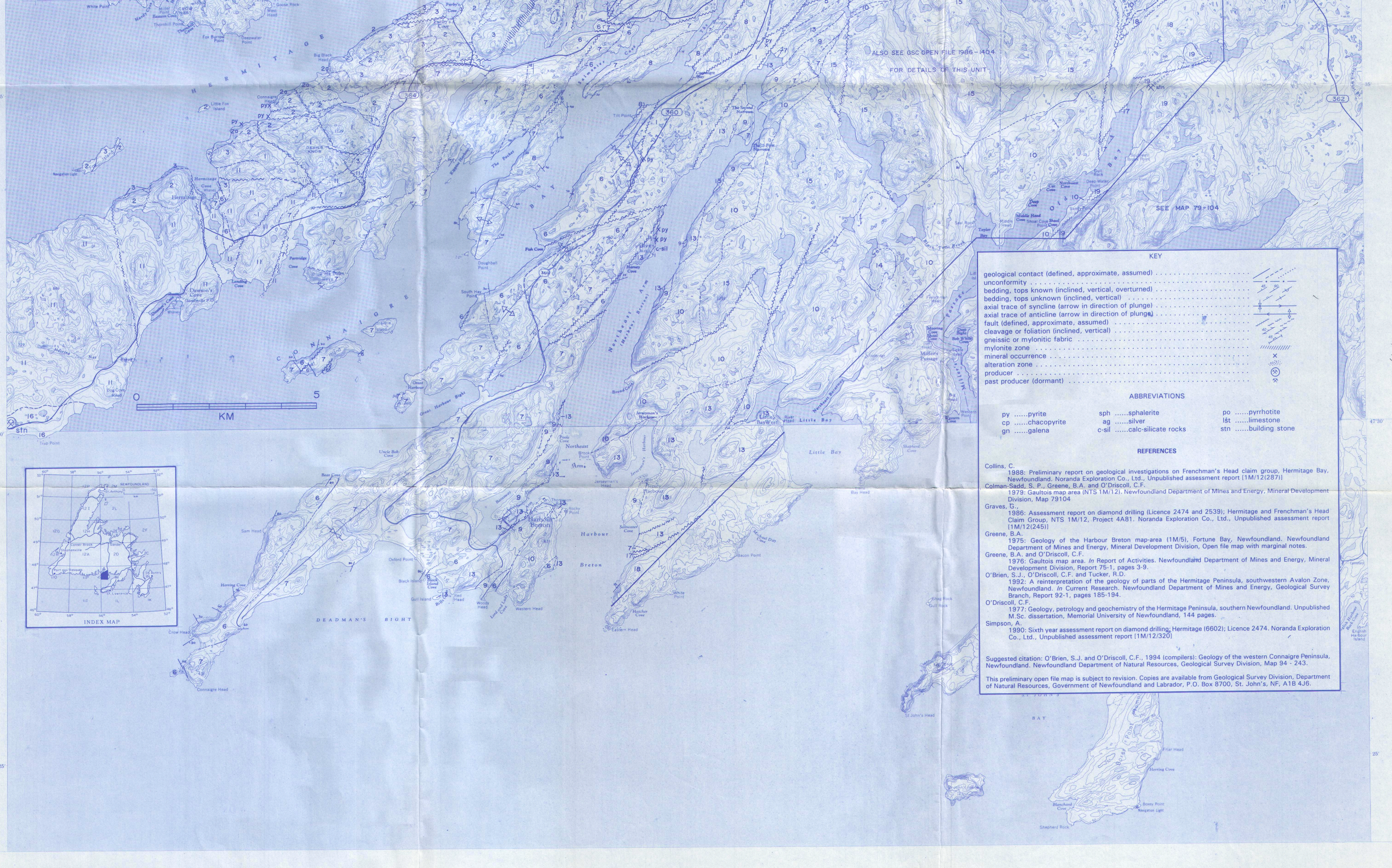
FURBY'S COVE INTRUSIVE SUITE (units 2 and 3)

3 pink to white, equigranular, blue-quartz-bearing granite, locally as narrow sheets; minor unseparated mafic plutonic and related hybrid rocks; 3a: granite porphyry

2 medium-grained, green to dark-grey gabbro and minor quartz diorite; minor unseparated granite and hybrid rocks; 2a: includes unseparated diabase, felsite, and blue-quartz-phryic granite dyke complexes

TICKLE POINT FORMATION

1 buff to brown weathering, pink to purple and green, felsic volcanic rocks, including massive and banded rhyolite flows and crystal- and crystal-litic felsic tuffs; minor andesite flows and interlayered carbonate, clastic and tuffaceous sedimentary rocks; locally contains unseparated diorite sills or plugs



KEY

geological contact (defined, approximate, assumed)

unconformity

bedding, tops known (inclined, vertical, overturned)

axial trace of syncline (arrow in direction of plunge)

axial trace of anticline (arrow in direction of plunge)

fault (defined, approximate, assumed)

cleavage or foliation (inclined, vertical)

gneissic or mylonitic fabric

mylonite zone

mineral occurrence

alteration zone

producer

past producer (dormant)

ABBREVIATIONS

pypyrite sphsphalerite popyrrhotite

cpchalcopyrite agsilver lstlimestone

gngalena c-silcalc-silicate rocks stnbuilding stone

REFERENCES

Collins, C.
1988: Preliminary report on geological investigations on Frenchman's Head claim group, Hermitage Bay, Newfoundland. Noranda Exploration Co., Ltd., Unpublished assessment report (1M/12/287)

Colman-Sadd, S. P., Greene, B.A. and O'Driscoll, C.F.
1979: Gaultois map area (NTS 1M/12). Newfoundland Department of Mines and Energy, Mineral Development Division, Map 73/04.

Graves, G.
1986: Assessment report on diamond drilling (Licence 2474 and 2539); Hermitage and Frenchman's Head Claim Group, NTS 1M/12, Project 4A81. Noranda Exploration Co., Ltd., Unpublished assessment report (1M/12/245)

Greene, B.A.
1975: Geology of the Harbour Breton map-area (1M/5), Fortune Bay, Newfoundland. Newfoundland Department of Mines and Energy, Mineral Development Division, Open file map with marginal notes.

Greene, B.A. and O'Driscoll, C.F.
1976: Gaultois map area. In Report of Activities. Newfoundland Department of Mines and Energy, Mineral Development Division, Report 75-1, pages 3-9.

O'Brien, S.J., O'Driscoll, C.F. and Tucker, R.D.
1992: A reinterpretation of the geology of parts of the Hermitage Peninsula, southwestern Avalon Zone, Newfoundland. In Current Research, Newfoundland Department of Mines and Energy, Geological Survey Branch, Report 92-1, pages 185-194.

O'Driscoll, C.F.
1977: Geology, petrology and geochemistry of the Hermitage Peninsula, southern Newfoundland. Unpublished M.Sc. dissertation, Memorial University of Newfoundland, 144 pages.

Simpson, A.
1990: Sixth year assessment report on diamond drilling, Hermitage (6602); Licence 2474. Noranda Exploration Co., Ltd., Unpublished assessment report (1M/12/320)

Suggested citation: O'Brien, S.J. and O'Driscoll, C.F., 1994 (compilers): Geology of the western Connaigre Peninsula, Newfoundland. Newfoundland Department of Natural Resources, Geological Survey Division, Map 94 - 243.

This preliminary open file map is subject to revision. Copies are available from Geological Survey Division, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NF, A1B 4J6.