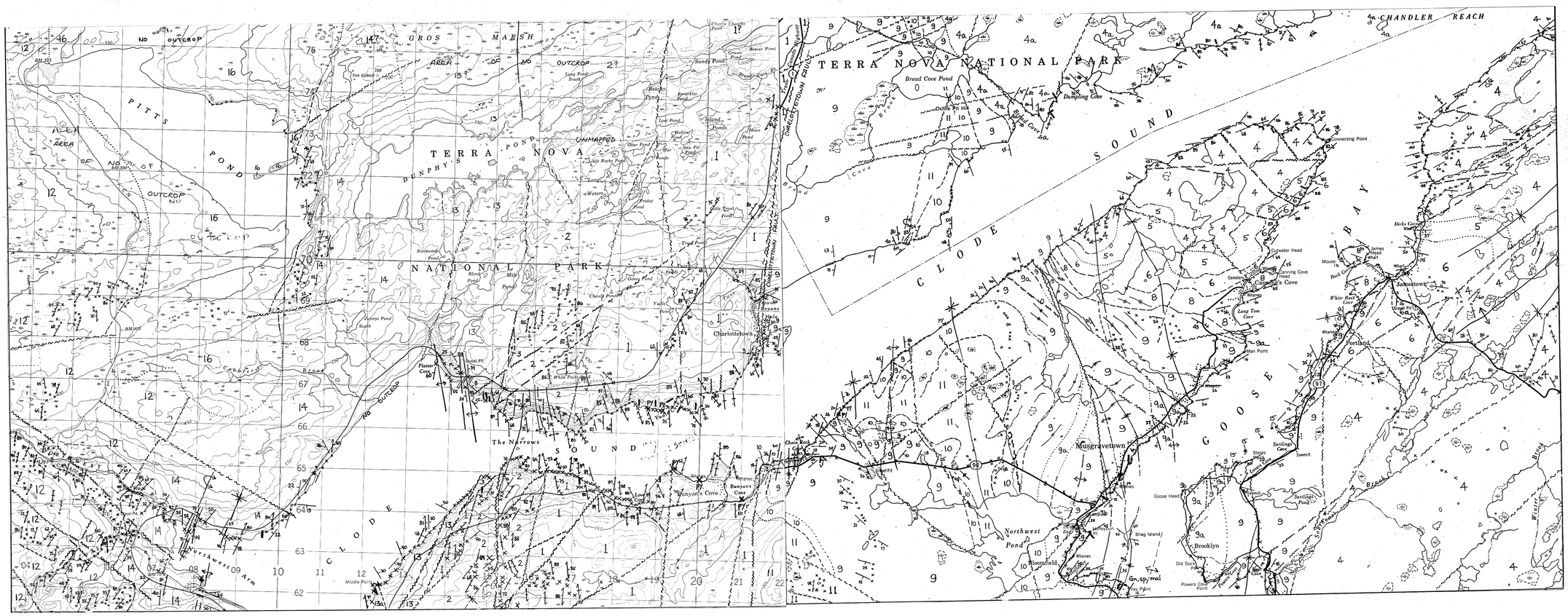
GEOLOGICAL SURVEY BRANCH
DEPARTMENT OF MINES AND ENERGY
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

A PRELIMINARY GEOLOGICAL MAP OF PARTS OF THE SWEET BAY (2C5/NW) AND PORT BLANDFORD (2D/8 NE) MAP AREAS, BONAVISTA BAY, NEWFOUNDLAND



SCALE 1:50 000

SEAN J. O'BRIEN
1992

LEGEND

DEVONIAN ?

TERRA NOVA GRANITE

16 *mainly massive, pink to buff, coarse-grained, K-feldspar porphyritic biotite granite; minor fine- and medium-grained, pink, K-feldspar porphyritic granite; rare equigranular granite and aplite*

LATE PRECAMBRIAN

MUSGRAVETOWN GROUP

Western belt (Units 12 to 14)

14 *red, purple and maroon, locally micaceous sandstone and lesser siltstone; minor coarse-grained red sandstone and pebble to cobble conglomerate; minor red shale and grey sandstone*

13 *green, yellow, buff and grey, cross-bedded sandstone; minor pebble conglomerate;* **13a:** *basalt*

12 *massive to strongly foliated tuffs and flows of felsic and intermediate composition; unseparated red felsic ash-flow tuff and banded rhyolite*

3 *equigranular, hornblende – biotite granite*

LOVE COVE GROUP (Units 1 and 2)

2 *grey meta-arenite, phyllite and tuffaceous sandstone; minor unseparated metavolcanic rocks*

1 *strongly foliated, greenschist grade, felsic to intermediate metavolcanic rocks of mainly pyroclastic origin; sericite schist and phyllite; minor quartz-phyric rhyolite flows and epiclastic metasedimentary rocks; numerous unseparated pretectonic diabase dykes*

CHARLOTTETOWN FAULT

15 *dark-grey fine and medium grained gabbro*

MUSGRAVETOWN GROUP

Eastern belt (Units 8 to 11: numbering reflects stratigraphic order within the belt but does bear on the relative ages of eastern and western belts of the Musgravetown Group)

11 *red, pink and pale-purple rhyolitic and rhyodacitic flows, ash-flow tuff and related pyroclastic rocks, including rheo-ignimbrite and related autobrecciated tuffs and flows; parataxitic and eutaxitic banded pumice-rich and pumice-poor tuff, flow-banded and massive rhyolite; unseparated purple and red, fine grained, feldspar porphyry and felsite*

10 *mainly dark-grey and green, locally red and purple vesicular basalt; minor basaltic breccia, mafic tuff and agglomerate; minor red sandstone and conglomerate*

9 *red and maroon, polymict, boulder conglomerate; red pebble and cobble conglomerate; minor red and lesser grey and green sandstone and siltstone; locally contains thin, unseparated mafic flows;* **9a:** *basalt and mafic breccia;* **9b:** *rhyolite tuff*

8 *pale-green cobble and boulder conglomerate; minor green and grey sandstone; rare red sandstone*

7 *dark-green and grey, fine- to medium-grained gabbro and diorite*

CONNECTING POINT GROUP (units 4-6)

6 *green arenaceous sandstone and minor granule conglomerate, grey and green siltstone;* **6a:** *minor red sandstone and siltstone*

5 *grey and green, interbedded, granule, cobble and boulder conglomerate and sandstone*

4 *grey, black and grey – green, thin- to medium-bedded, fine-grained sandstone, siltstone and shale; minor medium- to thick-bedded green sandstone, siliceous siltstone, chert, tuff and tuffaceous sandstone;* **4a:** *grey and black phyllite, shale, siltstone and sandstone*

KEY

geological contact (defined, approximate, assumed)
bedding, tops known (horizontal, inclined, vertical, overturned)
bedding, tops unknown (inclined, vertical)
axial trace of syncline
axial trace of anticline
overturned anticline
overturned syncline
fault (defined, approximate, assumed)

cleavage or foliation: first generation (inclined, vertical)
cleavage or foliation: second generation (inclined, vertical)
axis of minor fold (first, second generation)
mineral occurrence xpy
bedrock exposure
air photo lineament
diabase dykes

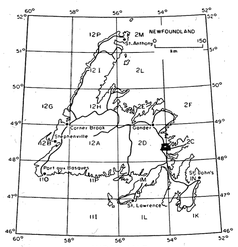
ABBREVIATIONS

py.....pyrite
gn.....galena
sp.....sphalerite
mal.....malachite

This preliminary geological map is subject to revision and correction.

Copies of this map are available from the Publications and Information Section, Geological Surveys Branch, Department of Mines and Energy, PO Box 8700, St. John's, Newfoundland A1B 4J6.

MAP 92 - 23



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