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

DEPARTMENT OF ENERGY, MINES AND RESOURCES
DEPARTMENT OF REGIONAL ECONOMIC EXPANSION
GOVERNMENT OF CANADA

MAP 82-1

GEOLOGY OF THE CARBONIFEROUS BAY ST. GEORGE SUBBASIN

Scale 1:125,000

Km 3 0 3 6 9 Km

Miles 2 0 2 4 Miles

SYMBOLS

- *Drift covered area*
- *Geological boundary (defined, approximate, assumed)*
- *Unconformity*
- *Bedding, tops known (horizontal, inclined, vertical, overturned)*
- *Bedding, tops unknown (inclined, vertical)*
- *Cleavage (inclined)*
- *Minor folds (plunge indicated)*
- *Structural trend (from air photographs)*
- *Lineament (from air photographs)*
- *Fault (defined, approximate, assumed)*
- *Fault (inclined, vertical)*
- *Fault (solid circle indicates downthrown side, arrows indicate relative movement)*
- *Thrust fault, teeth in direction of dip (defined, approximate, assumed)*
- *Anticline (defined, approximate)*
- *Syncline(defined, approximate)*
- *Anticline and syncline (overturned)*
- *Mineral occurrence (copper)* ×Cu
- *Dry hole (abandoned)*
- *Salt spring* ssO
- *Fossil locality*
- *Diamond drill hole* DDH ●
- *Sinkhole* ○ SH
- *Trace of coal seam*
- *Mine (operating, abandoned)*
- *Rock outcrop*
- *Structural cross-sections* C - C'
- *Structural cross-sections illustrated in text* A - A'

ABBREVIATIONS

barite	*ba*	*limestone*	*ls*
celestite	*cel*	*malachite*	*mal*
chalcocite	*choc*	*salt*	*Na*
chalcopyrite	*cp*	*lead*	*Pb*
copper	*Cu*	*pyrite*	*py*
fluorite	*fl*	*sphalerite*	*sp*
galena	*gn*	*strontianite*	*Sr*
gypsum, anhydrite	*gyp*	*uranium*	*U*
sylvite	*k*		

Geological compilation by Ian Knight (1979).

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.

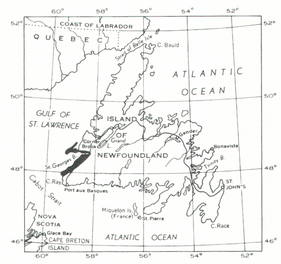
Base maps enlarged from 1:250,000 scale base maps published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1971.

Elevations in feet above mean sea level.

Approximate magnetic declination, 1972, for centre of map, 27° 10′ west, decreasing 2.4′ annually.

Fieldwork for this project was funded by the Government of Newfoundland and Labrador. Publication funded under the Canada/Newfoundland Mineral Development Subsidiary Agreement (1977-81), financed jointly by the Departments of Regional Economic Expansion (45%) and Energy, Mines and Resources (45%) of the Government of Canada and by the Government of Newfoundland and Labrador (10%).

Color separations and printing negatives by Maritime Resource Management Service, Amherst, Nova Scotia. 1982



INDEX MAP

LEGEND

BARACHOIS GROUP (Namurian to Westphalian A) (Units 10-11)
(Upper Mississippian to Pennsylvanian)

10 **SEARSTON FORMATION:** *Green-gray and red sandstones, red siltstones; green-gray silty mudstones and siltstones; caliche concretions; local conglomerates; thin coal beds.*

11 **UNDIVIDED BARACHOIS GROUP:** *Green-gray and red sandstones, pebbly sandstones, red siltstones; dark gray to black shales and mudstones; coal beds.*

CODROY GROUP (Middle to Upper Visean) (Units 6-9)
(Mississippian)

9 **WOODY CAPE FORMATION:** *Green-gray and gray sandstones, mudstones and siltstones; local red siltstones; black fossiliferous shales and black and gray dolomitic carbonates.*

8 **ROBINSONS RIVER FORMATION** (Undivided, units 8a-8e).

8d **OVERFALL BROOK MEMBER:** *Red, pink, brown, and white arkosic grits, sandstones and some conglomerates; some gray siltstones and sandstones; some red siltstones.*

8c **MOLLICHIGNICK MEMBER:** *Red siltstones and sandstones, gray sandstones, shales, mudstones, and siltstones; white marine sandstones, silty carbonates, dolomites and limestones, fossiliferous; caliche limestones. Sandstones predominantly micaceous.*

8c₁ *Brown, red and gray, arkosic and muddy, pebbly sandstones and conglomerates.*

8e **BROW POND LENTIL:** *Pink and red, pebbly and cobbly arkosic grits and sandstones.*

8b **HIGHLANDS MEMBER:** *Predominantly thick, red, with some gray and yellow sandstones (locally pebbly) and intercalated thick red siltstones with thin red sandstones; caliche limestones and some caliche conglomerates. Two units of limestones and gray to white sandstones and siltstones (possibly marine).*

8a **JEFFREYS VILLAGE MEMBER:** *Predominantly red siltstones with thin red sandstones; thick red and locally gray sandstones, locally pebbly in the north; brown, red and gray conglomerates; caliche limestones; gray shales, siltstones and sandstones, fossiliferous; red, gray, green and black halite bearing marls, mudstones, and siltstones; gray, algal, oolitic and fossiliferous, silty limestones, dolomitic limestones and dolomites, red dolomites; white gypsum; anhydrite and salt in subsurface.*

7 **CODROY ROAD FORMATION:** *Red, green and gray siltstones and mudstones, some thin red sandstones; black dolomites, locally highly, fossiliferous; white gypsum and gray anhydrite with gray shales and dolomite laminae.*

6 **SHIP COVE FORMATION:** *Laminated gray limestones and silty and shaly limestones; gray shales, green and red siltstones and shales locally; gray sandstones and intraclastic breccia locally; locally fossiliferous; gypsum molds and fenestra common.*

ANGUILLE GROUP (Tournaisian) (Units 2-5, 5a)
(Mississippian, may include Upper Devonian?)

5a **FISCHELLS CONGLOMERATE MEMBER:** *Thickly bedded gray, cobble and pebble conglomerates and sandstones.*

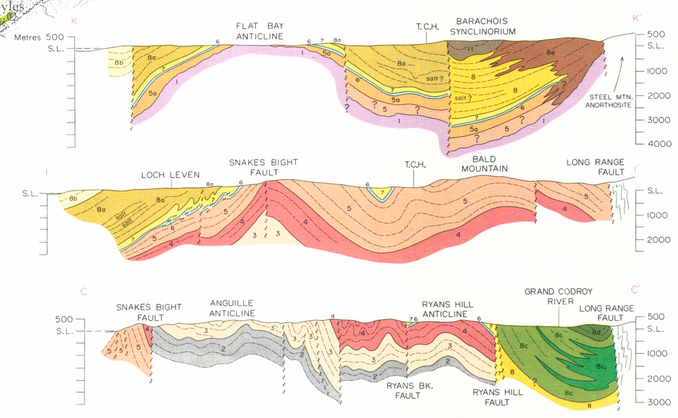
5 **SPOUT FALLS FORMATION:** *Red and gray sandstones, pebbly and intraclastic sandstones, minor siltstones; minor conglomerates in the north.*

4 **FRIARS COVE FORMATION:** *Gray sandstones, siltstones, and mudstones, gray and black shales; locally red beds; minor dolomitic limestones and dolomites, some stromatolites; basal gray sandstone and conglomerate member.*

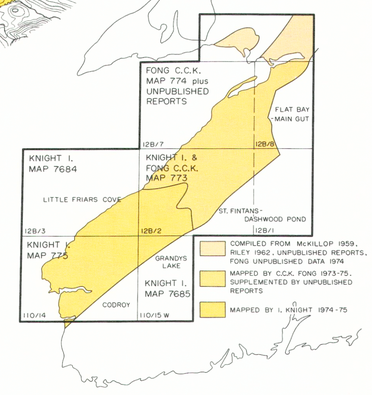
3 **SNAKES BIGHT FORMATION:** *Black shales and thin sandstones at base; bedded and thick units of gray sandstones, black shales and siliceous shales; thin gray siltstones; ferruginous dolomite laminae and beds, minor sandy limestones; lenses of quartz and dolomite pebble conglomerates.*

2 **KENNELS BROOK FORMATION:** (Probably Upper Devonian age) *Green-gray and red sandstones and pebbly sandstones, red siltstones; interbedded gray and brown siltstones and mudstones with gray limestone at top. Base not exposed.*

1 **PRE-CARBONIFEROUS BASEMENT within subbasin.**



—NO VERTICAL OR HORIZONTAL EXAGGERATION—



Published 1982