GEOLOGY AND MINERAL OCCURRENCES OF THE KING'S POINT MAP AREA

LEGEND

(All the units are not present on this mapsheet)

SEDIMENTARY AND VOLCANIC ROCKS

CARBONIFEROUS

Cs	*Red to grey conglomerate, sandstone, shale, siltstone; minor limestone*

SILURIAN – DEVONIAN

KING'S POINT COMPLEX

KSDp	*Quartz-feldspar porphyry; possibly includes extrusive equivalents*
KSDg	*Granite and quartz syenite, locally peralkaline*
KSDv	*Welded, felsic, lithic ash-flow tuff, locally quartz porphyritic; peralkaline in places*

SILURIAN

SPRINGDALE GROUP

SSs	*Fine- to medium-grained red sandstone and conglomerate; minor siltstone*
SSf	*Orange to brown, welded, quartz-feldspar, crystal-lithic tuff*
SSc	*Thick-bedded, coarse, red, conglomerate*
SSb	*Basaltic flows, aphanitic to plagiophyric, vesicular to non-vesicular*

MIDDLE ORDOVICIAN AND OLDER

ROBERTS ARM GROUP

RO	*Undivided*
ROa	*Felsic flows, breccia, felsite, felsite dykes*
RObc	*Calc-alkaline basaltic flow, pillow lava and pillow breccia; tuff, chert*
RObt	*Tholeiitic, basaltic flows, pillow lava; minor breccia, chert and siltstone*

CUTWELL GROUP *(no stratigraphic order implied)*

COL	Long Tickle formation: *andesitic to dacitic tuff, lapilli tuff and agglomerate; minor pillow andesite and fossiliferous limestone*
COSC	Seal Cove complex: *red to green flow-banded, subvolcanic dacite intrusive and related pyroclastic rocks*
COPP	Parsons Point formation: *fossiliferous limestone, limestone breccia, black cherty shale and feldspathic greywacke*
COB	Burnt Head formation: *andesitic flows, pillow lava and pyroclastic rocks;* **COBx**, Pyroclastic member, *basic to intermediate agglomerate, lapilli tuff, tuff, minor felsic pyroclastic rocks, argillite, shale and chert;* **COBp**, Pillow Andesite member, *andesite flows, pillow lava and pillow breccia, agglomerate and tuff, generally prophyritic*
COQ	Quinton Cove formation: *coarse agglomerate; minor interbedded tuff and lapilli tuff*
COPH	Pigeon Head formation: *chert, argillite, shale; fine-grained tuffs and reworked tuffs*
COSI	Stag Island formation: **COSIp**, Basalt member, *pillow basalt and pillow breccia;* **COSIb**, Breccia member, *coarse breccia locally bedded;* **COSId**, Intrusive member, *diabase and gabbro*

CATCHERS POND GROUP

CPO	*Undivided silicic and mafic volcanic rocks (flows and pyroclastic rocks); sediments and fossiliferous limestone*

WESTERN ARM GROUP

WOg	*Fine- to coarse-grained, aphyric to porphyritic diabase and gabbro*
WOw	Western Head Agglomerate: *coarse, unbedded, mafic agglomerate with thin lenses of tuff and cherty tuff*
WOwc	Welsh Cove Tuff: *silicic crystal tuff, welded tuff; chert and argillite; minor basic and intermediate tuff*
WOB	Big Hill Basalt: *dark grey, basaltic pillow lava; minor lenses of chert and argillite*
WOs	Skeleton Pond Tuff: *interbedded red, brown, green and black argillite, chert and tuff; pyroxene crystal tuff; grey pillow lava. Contains sulphide and magnetite iron formation at its base*

CAMBRIAN AND/OR EARLY ORDOVICIAN

LUSHS BIGHT GROUP

L€O	*Undivided*
L€Og	*Fine- to medium-grained gabbro and diabase*
L€Opb	*Grey to black, locally hematitic, basaltic pillow lava with interpillow and lensoidal red and green chert, and magnetite iron formation; minor bedded tuff*
L€Opa	*Basaltic, generally quartz amygdaloidal and locally variolitic pillow lava and massive flows, chlorite schist; unseparated diabase and gabbro; minor intercalated tuff and agglomerate; minor red chert; local sheeted dyke swarms; minor felsic pyroclastic rocks and dykes*
L€Op	*Basaltic pillow lava, minor to extensive, unseparated, diabase and gabbro dykes, sills and massive flows; minor tuffaceous rocks and hyaloclastites, chlorite schist;* **L€Opx**, *pillow breccia, isolated pillows, agglomerate tuff and hyaloclastite;* **L€Opt**, *intercalated, bedded, mafic tuffs and massive flows*
L€Opd	*Basaltic pillow lava with minor to extensive diabase and gabbro dykes; and/or sheeted dykes with common pillow lava screens*
L€Od	*Sheeted diabase dykes, locally with pillow screens; felsic dykes locally present*
L€Ou	*Peridotite, serpentinite*

BETTS COVE OPHIOLITE

B€Op	*Basaltic pillow lava*
B€Od	*Sheeted diabase dykes*
B€Og	*Gabbro and diabase*

CUTWELL GROUP (?)

COp	*Basaltic pillow lava*
COsp	*Basaltic pillow lava interfingered with bedded red, green, black and yellow argillite, chert*
COt	*Pyroxene-crystal tuff, breccia and lapilli tuff with intercalated sedimentary rocks* **(COs)**
COs	*Interbedded red, green, black and yellow chert, siliceous argillite, jasper and reworked tuffs; sulphide and magnetite iron formation*

CATCHERS POND GROUP (?)

Ov	*Grey to black, basaltic pillow lava*
Ot	*Intermediate to mafic, locally bedded, tuffaceous rocks and massive flows; bedded, red chert and argillite; magnetite and sulphide iron formation*

LUSHS BIGHT GROUP (?)

€Ou	*Magnesite, talc-carbonate, actinolite – tremolite (altered ultramafic rock)*

INTRUSIVE ROCKS

Dp	*Granite and quartz-feldspar porphyry*
OSW	Woodfords Arm pluton: **OSWg**, *grey to pink, fine- to medium-grained granodiorite;* **OSWd**, *quartz diorite and hybrid rocks*
Os	*Pink to grey, granodiorite, quartz-feldspar porphyry and dacitic stocks*
OSA	Suley Ann Cove pluton: *white to grey, medium-grained, tonalite, quartz monzonite and quartz-feldspar porphyry*
OL	Long Island pluton: *grey to black, medium-grained granodiorite, diorite and gabbro exhibiting multiphase intrusion breccias; minor granite aplite*
Og	*Fine- to coarse-grained, aphyric to porphyritic, diabase and gabbro*
OD	Dolland quartz diorite: *grey to black, medium-grained quartz diorite and minor gabbro*
OB	Burlington granodiorite: *grey, medium-grained granodiorite, quartz diorite; minor granite*
Ogd	*Fine- to coarse-grained, equigranular, granodiorite and tonalite*
Occ	Cooper's Cove pluton: **Occg**, *medium- to coarse-grained biotite, hornblende, quartz-monzonite, granodiorite and granite;* **Occd**, *tonalite, quartz-diorite, diorite and gabbro*
Oc	Colchester Pluton: **Ocg**, *light-green, medium-grained granodiorite and tonalite;* **Ocqd**, *medium-grained, quartz-diorite to tonalite;* **Ocd**, *green, medium- to coarse-grained diorite and gabbro*
Ow	Wellman's Cove pluton: *grey to black, medium-grained diorite, quartz diorite and gabbro with extensive xenoliths of mafic and ultramafic rocks; diabase and red felsic dykes*
OBH	Bob Head pluton: *medium- to coarse-grained gabbro and diorite; grey to pink, quartz monzonite with mafic xenoliths*
OBR	Brighton gabbro: *coarse- to medium-grained hornblende clinopyroxenite and hornblendite intruded by hornblende gabbro, hornblendite, diorite, quartz diorite, granodiorite and aplite*

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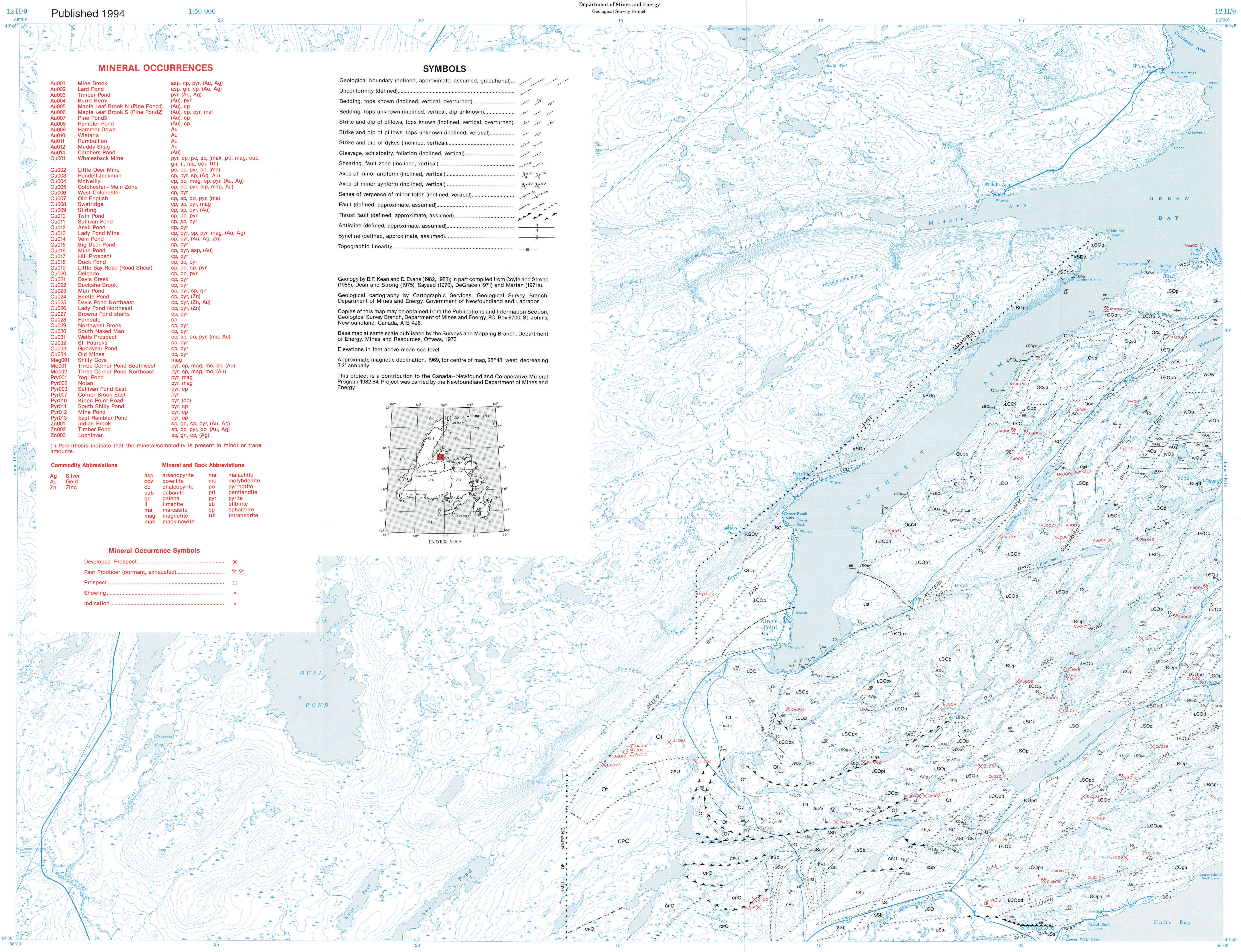

MINERAL OCCURRENCES

Au001	Mine Brook	asp, cp, pyr, (Au, Ag)
Au002	Lard Pond	asp, gn, cp, (Au, Ag)
Au003	Timber Pond	pyr, (Au, Ag)
Au004	Burnt Berry	(Au), pyr
Au005	Maple Leaf Brook N (Pine Pond1)	(Au), cp
Au006	Maple Leaf Brook S (Pine Pond2)	(Au), cp, pyr, mal
Au007	Pine Pond3	(Au), cp
Au008	Rambler Pond	(Au), cp
Au009	Hammer Down	Au
Au010	Wistaria	Au
Au011	Rumbullion	Au
Au012	Muddy Shag	Au
Au014	Catchers Pond	(Au)
Cu001	Whalesback Mine	pyr, cp, po, sp, (mak, ptl, mag, cub, gn, il, ma, cov, tth)
Cu002	Little Deer Mine	po, cp, pyr, sp, (ma)
Cu003	Rendell-Jackman	cp, pyr, sp, (Ag, Au)
Cu004	McNeilly	cp, po, mag, sp, pyr, (Au, Ag)
Cu005	Colchester – Main Zone	cp, po, pyr, (sp, mag, Au)
Cu006	West Colchester	cp, pyr
Cu007	Old English	cp, sp, po, pyr, (ma)
Cu008	Swatridge	cp, sp. pyr, mag
Cu009	Stirling	cp, sp, pyr, (Au)
Cu010	Twin Pond	cp, po, pyr
Cu011	Sullivan Pond	cp, sp, pyr
Cu012	Anvil Pond	cp, pyr
Cu013	Lady Pond Mine	cp, pyr, sp, pyr, mag, (Au, Ag)
Cu014	Vein Pond	cp, pyr, (Au, Ag, Zn)
Cu015	Big Deer Pond	cp, pyr
Cu016	Mine Pond	cp, pyr, asp, (Au)
Cu017	Hill Prospect	cp, pyr
Cu018	Duck Pond	cp, sp, pyr
Cu019	Little Bay Road (Road Shear)	cp, po, sp, pyr
Cu020	Delgado	cp, po, pyr
Cu021	Davis Creek	cp, pyr
Cu022	Buckshe Brook	cp, pyr
Cu023	Muir Pond	cp, pyr, sp, gn
Cu024	Beetle Pond	cp, pyr, (Zn)
Cu025	Davis Pond Northeast	cp, pyr, (Zn, Au)
Cu026	Lady Pond Northeast	cp, pyr, (Zn)
Cu027	Browns Pond shafts	cp, pyr
Cu028	Ferndale	cp
Cu029	Northwest Brook	cp, pyr
Cu030	South Naked Man	cp, pyr
Cu031	Wells Prospect	cp, sp, po, pyr, (ma, Au)
Cu032	St. Patricks	cp, pyr
Cu033	Goodyear Pond	cp, pyr
Cu034	Old Mines	cp, pyr
Mag001	Shilly Cove	mag
Mo001	Three Corner Pond Southwest	pyr, cp, mag, mo, sb, (Au)
Mo002	Three Corner Pond Northeast	pyr, cp, mag, mo, (Au)
Pry001	Yogi Pond	pyr, mag
Pyr002	Nolan	pyr, mag
Pyr003	Sullivan Pond East	pyr, cp
Pyr007	Corner Brook East	pyr
Pyr010	Kings Point Road	pyr, (cp)
Pyr011	South Shilly Pond	pyr, cp
Pyr012	Mine Pond	pyr, cp
Pyr013	East Rambler Pond	pyr, cp
Zn001	Indian Brook	sp, gn, cp, pyr, (Au, Ag)
Zn002	Timber Pond	sp, cp, pyr, po, (Au, Ag)
Zn003	Lochinvar	sp, gn, cp, (Ag)

( ) Parenthesis indicate that the mineral/commodity is present in minor or trace amounts.

Commodity Abbreviations

Ag	Silver
Au	Gold
Zn	Zinc

Mineral and Rock Abbreviations

asp	arsenopyrite	mal	malachite
cov	covellite	mo	molybdenite
cp	chalcopyrite	po	pyrrhotite
cub	cubanite	ptl	pentlandite
gn	galena	pyr	pyrite
il	ilmenite	sb	stibnite
ma	marcasite	sp	sphalerite
mag	magnetite	tth	tetrahedrite
mak	mackinawite		

Mineral Occurrence Symbols

Developed Prospect........................ ⊗
Past Producer (dormant, exhausted)........................ ⚒ ⚒
Prospect........................ ○
Showing........................ ×
Indication........................ ×

SYMBOLS

Geological boundary (defined, approximate, assumed, gradational)...
Unconformity (defined)........................
Bedding, tops known (inclined, vertical, overturned)........................ 90
Bedding, tops unknown (inclined, vertical, dip unknown)........................
Strike and dip of pillows, tops known (inclined, vertical, overturned).
Strike and dip of pillows, tops unknown (inclined, vertical)........................
Strike and dip of dykes (inclined, vertical)........................
Cleavage, schistosity, foliation (inclined, vertical)........................
Shearing, fault zone (inclined, vertical)........................
Axes of minor antiform (inclined, vertical)........................ 30 90
Axes of minor synform (inclined, vertical)........................ 30 90
Sense of vergence of minor folds (inclined, vertical)........................ 30 90
Fault (defined, approximate, assumed)........................
Thrust fault (defined, approximate, assumed)........................
Anticline (defined, approximate, assumed)........................
Syncline (defined, approximate, assumed)........................
Topographic linearity........................

Geology by B.F. Kean and D. Evans (1982, 1983); in part compiled from Coyle and Strong (1986), Dean and Strong (1975), Sayeed (1970), DeGrace (1971) and Marten (1971a).

Geological cartography by Cartographic Services, Geological Survey Branch, Department of Mines and Energy, Government of Newfoundland and Labrador.

Copies of this map may be obtained from the Publications and Information Section, Geological Survey Branch, Department of Mines and Energy, P.O. Box 8700, St. John's, Newfoundland, Canada, A1B 4J6.

Base map at same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1973.

Elevations in feet above mean sea level.

Approximate magnetic declination, 1969, for centre of map, 28°48' west, decreasing 3.2' annually.

This project is a contribution to the Canada – Newfoundland Co-operative Mineral Program 1982-84. Project was carried by the Newfoundland Department of Mines and Energy.

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Roads:	Routes:		
hard surface, all weather........................	pavée, toute saison........................	dual highway 2 chaussées séparées	more than 2 lanes plus de 2 voies
hard surface, all weather........................	pavée, toute saison........................	2 lanes 2 voies	less than 2 lanes moins de 2 voies
loose or stabilized surface, all weather...	gravier aggloméré, toute saison...	2 lanes or more 2 voies ou plus	less than 2 lanes moins de 2 voies
loose surface, dry weather and unclassified streets........................	de gravier, temps sec et rues hors classe........................		
cart track........................	de terre........................		
trail or portage........................	sentier ou portage........................		

Scale 1:50,000 Échelle

Miles 1 0 1 2 3 Milles
Metres 1000 0 1000 2000 3000 4000 Mètres
Yards 1000 0 1000 2000 3000 4000 Verges

This Provisional Map is equivalent to a standard map in accuracy of content.

Some names on this map are not yet official. Corrections or additions are invited by the Surveys and Mapping Branch.

CONTOUR INTERVAL 50 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

MAP 94 - 226