

LEGEND

RIVERSDALE GROUP
 LCPH PORT HOOD FORMATION: grey and brown sandstone and conglomerate

CANSO GROUP
 LCPQ POMQUET FORMATION: red and minor grey-green siltstone and sandstone
 ECHI HASTINGS FORMATION: grey shale and siltstone with red shale and minor limestone

WINDSOR GROUP
 ECHH HOOD ISLAND FORMATION: red siltstone and sandstone with intercalated marine limestone and dolostone and minor gypsum; rhythmic alternation of these rock units is characteristic

ADDINGTON FORMATION (ECAD): red siltstone, with gypsum and anhydrite and thin carbonate beds; rhythmic alternation of these rock units is typical
WALLACE BROOK FORMATION (ECWA): limestone, with minor dolostone, intercalated with red siltstone and sandstone; includes gypsum and anhydrite in the subsurface
LAKEVALE FORMATION (ECL): grey and reddish-brown polymictic conglomerate and paraconglomerate with gypsum and anhydrite in the subsurface; minor carbonate rocks are intercalated in some sections

HARTSHORN FORMATION (ECHH): halite, grey and white with thin interbeds of anhydrite and grey-green siltstone, minor sylvite and carnallite; known only in the subsurface
BRIDGEVILLE FORMATION (ECB): anhydrite and gypsum, with limestone and dolomitic limestone in variable proportion as interbeds
GAYS RIVER FORMATION (ECGR): limestone, minor dolostone, thinly bedded, argillaceous, in part peloidal, locally thickly bedded and highly fossiliferous in mound-shaped deposits resting upon pre-Carboniferous rocks
MAGNUM FORMATION (ECM): limestone in part dolomitic, laminated and/or banded, peloidal, sparsely fossiliferous; includes limestone breccias of complex origin

HORTON GROUP
 ECVB WILKE BROOK FORMATION: conglomerate, sandstone and shale with minor algal and oolitic limestone

DC
 Undivided DEVONIAN-CARBONIFEROUS ROCKS: grey and reddish-brown polymictic conglomerate, grey and pale red lithaetic sandstone, red shale, and grey shale, in part highly bituminous; thin beds of fresh-water limestone occur in association with grey shales; and volcanic rocks are known in the subsurface south of Stewart Lake

H-D
 Undivided HADRYANIAN TO DEVONIAN ROCKS: shale, slate, graywacke, basalt and rhyolite, variably deformed and metamorphosed; may include rocks previously assigned to the Knopdat Formation, Anisig Group, Browns Mountain Group and Georgeville Group

PLUTONIC ROCKS: Antigonish Harbour and James River Plutons (ECJ) granite and monzonite; Ohio River Pluton (ECU) granitoid rocks

SYMBOLS

Rock outcrop limestone, dolostone, commonly fossiliferous..... X
 gypsum, anhydrite, terrigenous sedimentary and volcanic rocks..... □
 granitoid rocks..... ○

areas with continuous outcrop.....

Bedding: horizontal, inclined, vertical, overturned, top unknown..... + / / / /

Geological boundary, approximate, dotted beneath major bodies of water..... - - - - -

Fault, approximate, dotted beneath major bodies of water..... - - - - -

relative fault movement wrench fault..... - - - - -

symbol on downthrown side.....

Thrust fault, barbs point down-dip.....

Anticline and syncline.....

Antiform and synform.....

Anticline and syncline, overturned.....

Fossil locality.....

Spore locality (zonation after Utting - 1978, 1980).....

Diamond-drill hole.....

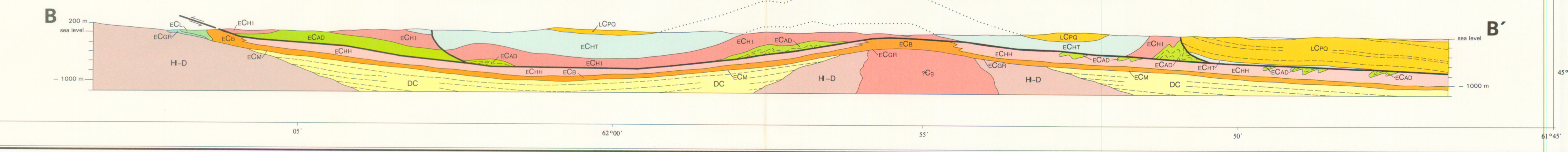
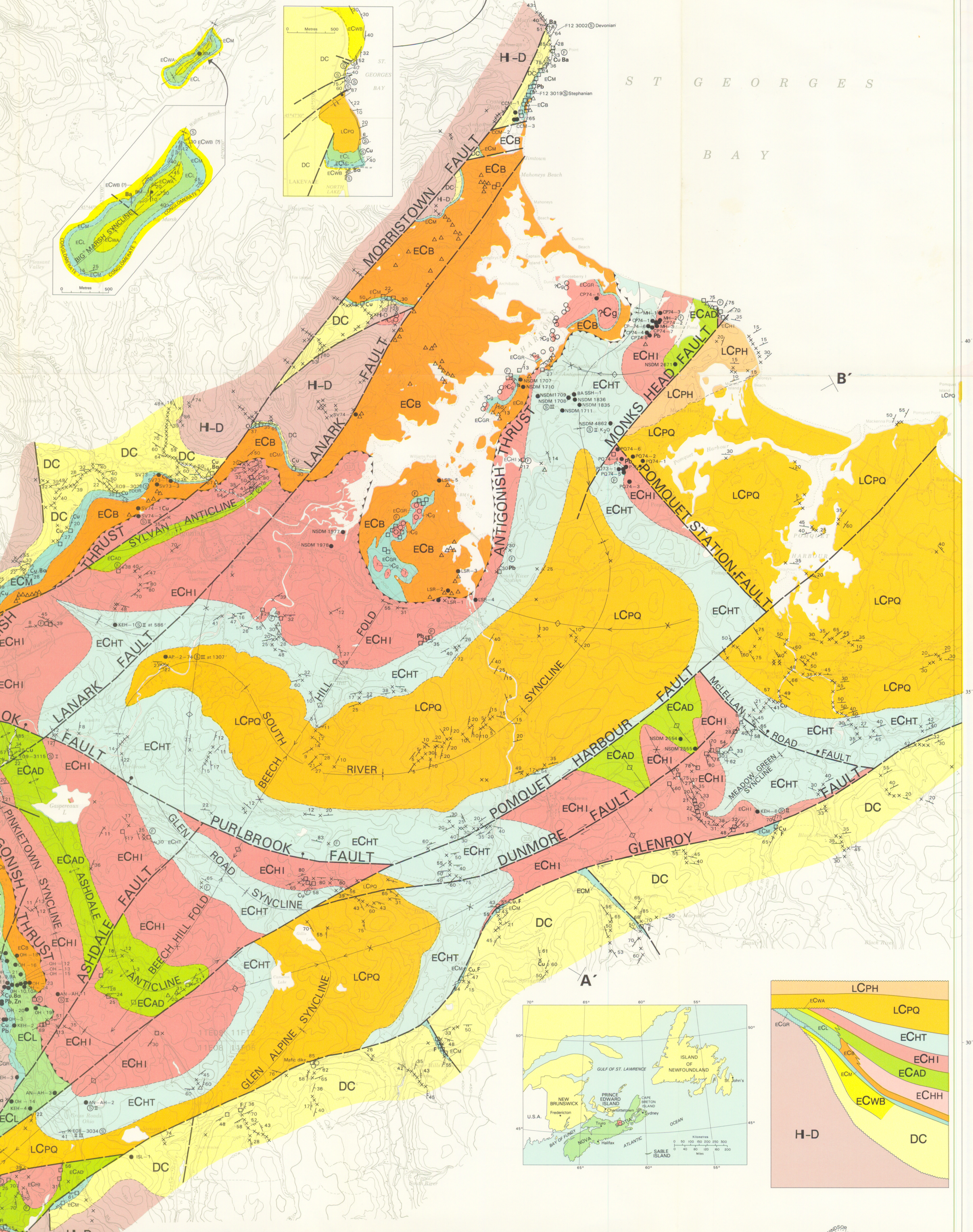
Mine or quarry, 1:5 - limestone.....

Mineral occurrence or prospect; Pb - lead, Zn - zinc, Cu - copper, Ba - barite, P - fluorite.....

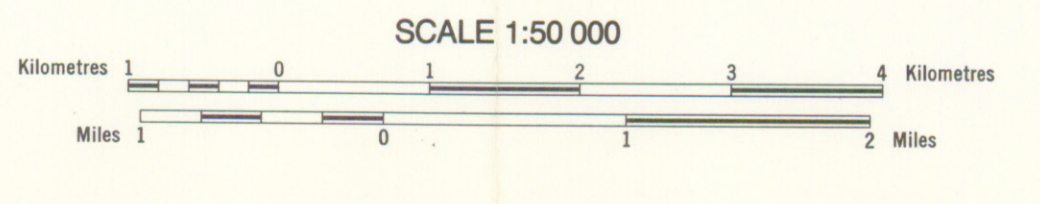
Pb - Sr whole rock isochron age (Rb) = 1.42×10^{10} yr.....

Contour Interval 50 Feet.

Topographic symbols after National Topographic Series 1:50,000 maps published by Surveys and Mapping Branch, Canada Department of Energy, Mines and Resources.
 Preliminary drafting by Nova Scotia Department of Mines and Energy.
 Cartography and base-map preparation by Maritime Resource Management Services from National Topographic Series 1:50,000 maps published by Surveys and Mapping Branch, Canada Department of Energy, Mines and Resources.



Map 82-2
GEOLOGICAL MAP OF THE ANTIGONISH BASIN NOVA SCOTIA
 R.C. Bohner and P.S. Giles
 1982
 SCALE 1:50 000



JOINT PROJECT
 NOVA SCOTIA DEPARTMENT OF MINES AND ENERGY
 AND
 CANADA DEPARTMENT OF REGIONAL ECONOMIC EXPANSION

PROVINCE OF NOVA SCOTIA, DEPARTMENT OF MINES AND ENERGY
 HON. RON BARKHOUSE, MINISTER
 JOHN J. LAFFIN, P. ENG., DEPUTY MINISTER