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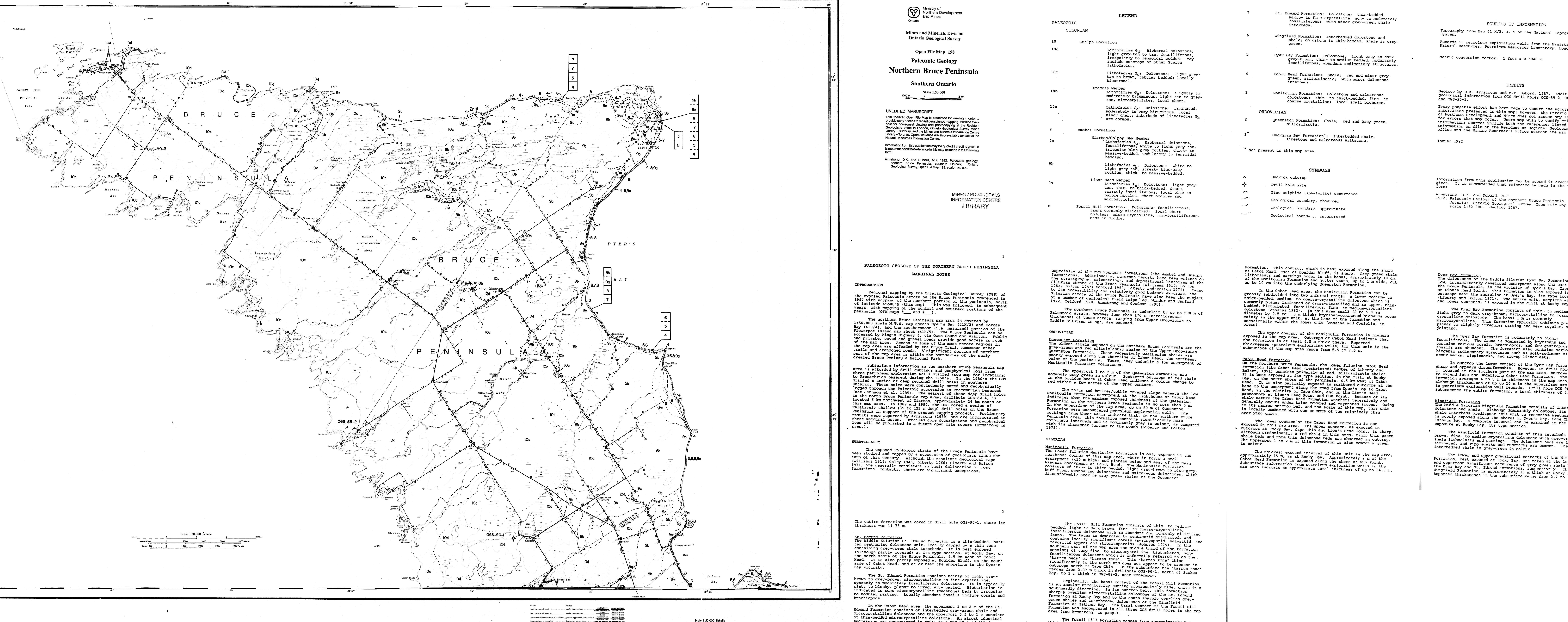
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**LEGEND**

**SILURIAN**

10 Guelph Formation

10d Lithofacies G<sub>1</sub>: Bihermal dolomite; light grey to tan, fossiliferous, irregularly to finely bedded, moderately to finely crystalline, thin to medium bedded, fine to coarse crystalline, locally massive, chert nodules and stromatolites, and occasional large rounded corals.

10c Lithofacies G<sub>2</sub>: Dolomite; light grey to tan, massive, tabular bedded, locally bihermal.

10b Erasmus Member

10a Maitland/Colony Bay Member

**PALEOZOIC**

9c Anabel Formation

9b Maitland/Colony Bay Member

9a Lions Head Member

8 Fossil Hill Formation

**MARGINAL NOTES**

**INTRODUCTION**

Regional mapping by the Ontario Geological Survey (OGS) of the Bruce Peninsula commenced in 1967 with mapping of the area north of the Bruce Nuclear Generating Station. This was followed, in subsequent years, with mapping of the central and southern parts of the peninsula.

The northern Bruce Peninsula map area is covered by 1:50,000 scale N.T.D. maps sheets Dyer's Bay (437/3) and Rockes Bay (437/4). The southern Bruce Peninsula map area is covered by 1:50,000 scale N.T.D. maps sheets Dyer's Bay (437/3) and Rockes Bay (437/4).

**STRATIGRAPHY**

The exposed Paleozoic strata of the Bruce Peninsula have been dated and mapped in this map area. The Paleozoic succession is summarized in the following table:

Formation	Approximate Thickness (m)
St. Edmund Formation	1.5 to 2.0
Erasmus Member	1.0 to 1.5
Maitland/Colony Bay Member	1.0 to 1.5
Anabel Formation	1.0 to 1.5
Lions Head Member	1.0 to 1.5
Fossil Hill Formation	1.0 to 1.5

**Geological Boundary, Observed**

**Geological Boundary, Approximate**

**Geological Boundary, Interpreted**

**Bedrock outcrop**

**Lith block site**

**Zinc sulphide (sphalerite) occurrence**

**Geological boundary, observed**

**Geological boundary, approximate**

**Geological boundary, interpreted**

**SOURCES OF INFORMATION**

Topography from 41 N.T.D. 4, 5 of the National Topographic Series.

Records of petroleum exploration wells from the Ministry of Natural Resources, Petroleum Resources Laboratory, London.

Metre conversion factors: 1 foot = 0.3048 m.

**CREDITS**

Geology by D.K. Armstrong and M.P. Dubord, 1987. Additional geological information from OGS drill holes OGS-89-2, OGS-89-3, and OGS-89-4.

Every effort has been made to ensure the accuracy of the information presented in this map. However, the Ontario Ministry of Natural Resources and the Ministry of Energy and Northern Development do not assume any liability for errors or omissions. Information sources include but are not limited to the following:

- Armstrong, D.K. and Dubord, M.P. 1987. Paleozoic Geology of the Northern Bruce Peninsula, Southern Ontario. Open File Map 198, Scale 1:50,000. Geology 1987.

**STROBOLS**

Information from this publication may be quoted if credit is given. It is recommended that reference be made in the following form:

Armstrong, D.K. and Dubord, M.P. 1987. Paleozoic Geology of the Northern Bruce Peninsula, Southern Ontario. Open File Map 198, Scale 1:50,000. Geology 1987.

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- Mr. R. G. Macdonald, Ontario Geological Survey, for his assistance in the field.
- Mr. J. G. Macdonald, Ontario Geological Survey, for his assistance in the field.

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**St. Edmund Formation**

The St. Edmund Formation is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Erasmus Member, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Erasmus Member**

The Erasmus Member is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Maitland/Colony Bay Member**

The Maitland/Colony Bay Member is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Anabel Formation**

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**Lions Head Member**

The Lions Head Member is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Fossil Hill Formation**

The Fossil Hill Formation is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**St. Edmund Formation**

The St. Edmund Formation is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Erasmus Member, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Erasmus Member**

The Erasmus Member is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Maitland/Colony Bay Member**

The Maitland/Colony Bay Member is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.

**Anabel Formation**

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**Fossil Hill Formation**

The Fossil Hill Formation is a thin-bedded, buff to tan, micaceous dolomite, locally capped by a thin zone of silty shale. It is best exposed at the base of the Anabel Formation, where it is locally capped by a thin zone of silty shale. It is also partly exposed at Boulder Bluff, on the south side of Cape Chin, and at the shore of the Bruce Bay.