OFM 88-034
11F/16

CAPE BRETON COUNTY
OFM 88-034 — 11F/16(Part of 11F/09)

Nova Scotia **Department of Mines and Energy**

MINERAL RESOURCE LAND USE MAP

OF

CAPE BRETON COUNTY

OFM 88-034
(11F/16 part of 11F/09)

Compiled By

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1988

HONOURABLE KEN STREATCH
MINISTER

JOHN J. LAFFIN, P.ENG., FEIC
DEPUTY MINISTER

SCALE: 1:50 000

Miles 0 1 2 Miles
Metres 1000 0 1000 2000 3000 4000 Metres

The Nova Scotia Department of Mines and Energy is responsible for the proper management of the Province's mineral and energy resources. Under the Canada-Nova Scotia Mineral Development Agreement, Mines and Energy has initiated a land use planning project aimed at developing a provincial mineral land use policy. The project is to develop a comprehensive database of mineral resource and land use information, and thereby provide the support data required to prepare the policy.

The Mineral Resource Land Use (MRLU) map series is part of that project. These maps provide information about the location and distribution of mineral and energy resources in Nova Scotia. They also show certain land uses which affect, either positively or negatively, mineral exploration and mining. The objective behind compiling the MRLU map series is to provide input to resource planning and to establish a basis for identifying and resolving possible conflicts in land use.

The information presented on the MRLU maps is compiled from published and unpublished maps and reports available at Nova Scotia Department of Mines and Energy. The maps contain a wide range of topics combined to show the spatial relationships between known mineral and energy resources and existing land use activities.

The alpha-numeric codes used to identify mineral and energy occurrences in MRLU maps correspond to a series of resource indexes prepared by this Department. Each MRLU map set has an accompanying handbook which describes each code in detail.

The MRLU map series organizes the information according to Nova Scotia's 18 counties. All MRLU maps are 1:50,000, National Topographic Series. The index map below shows each county and its corresponding set of NTS sheets.

INDEX MAP

MRLU MAP SET FOR CAPE BRETON COUNTY

OFM NO.	NTS
88-033	11F/15 (part of 11K/02)
88-034	11F/16 (part of 11F/09)
88-035	11G/13
88-036	11J/04
88-037	11K/01
88-038	11K/08

SHEET LOCATION

CAPE BRETON COUNTY
GEOLOGY

0 5 10 15 km
0 5 10 mi

11F/16
11F/09

UPPER CARBONIFEROUS - MORIEN GROUP (COAL BEARING ROCK): Sandstone, Shale, Limestone, Conglomerate, Coal.

LOWER CARBONIFEROUS - WINDSOR GROUP, CANSO GROUP, GRANTMIRE FORMATION: Siltstone, Mudstone, Sandstone, Shale, Gypsum, Anhydrite, Halite, Conglomerate.

DEVONIAN, CAMBRIAN - McADAM LAKE FORMATION, BOURINOT GROUP, KELVIN GLEN GROUP - Conglomerate, Shale, Arkose, Felsic and Mafic tuff, Basalt, Rhyolite, Siltstone.

PLUTONICS - Granodiorite, Diorite, Granite, Gabbro.

PRECAMBRIAN - FOURCHU GROUP, GEORGE RIVER GROUP: Felsic and Mafic tuff, Balsalt, Andesite, Rhyolite, Slate, Quartzite, Chlorite schist, Meta-wacke, Marble, and Calc-silicate rocks

SOURCE - Geological Map of the Province of Nova Scotia Compiled by J. Duncan Keppie, 1979

PLEASE REFER TO INSET

INSET 11F/09

Base map derived from National Topographic 1:50,000 Series; Produced by Surveys and Mapping Branch, Energy, Mines and Resources, Canada. Edition 4; information Current as of 1972.

SAND & GRAVEL RESOURCES

- Sand deposit
- Gravel deposit
- Sand & gravel deposit
- Pit (active, inactive or active on demand) (operator name given if available)

METALLIC MINERALS

- Metal occurrence
- Mine (active, inactive)
  - Sample: Inactive mine; NSDME* Metallic Mineral Occurrence Data Card # H01-02; Primary metal - gold; H01-02(M); Au
- Mine tailings
- Gold mining camps**
- Shaft/adit (abandoned)
- Metals:

Antimony	Sb	Mercury	Hg
Arsenic	As	Molybdenum	Mo
Beryllium	Be	Nickel	Ni
Bismuth	Bi	Platinum (group)	Pt
Cadmium	Cd	Silver	Ag
Chromium	Cr	Tantalum	Ta
Cobalt	Co	Thorium	Th
Columbium	Nb	Tin	Sn
Copper	Cu	Titanium	Ti
Gold	Au	Tungsten	W
Iron	Fe	Uranium	U
Lead	Pb	Vanadium	V
Magnesium	Mg	Zinc	Zn
Manganese	Mn	Zirconium	Zr

- Drillhole ⊕ N.D.***

Note: Each drillhole location or area of concentrated drilling will be accompanied by a reference number or range of numbers from the NSDME* Drillhole Database, and by a listing of the metals found at that location.

*NSDME: N.S. Department of Mines and Energy
**THE TERM GOLD MINING CAMP IS EQUIVALENT TO GOLD DISTRICT.
***N.D. - NO DATA

INDUSTRIAL MINERALS

- Mineral/Commodity occurrence
- Mine/Quarry (active, inactive)
  - Sample: Active quarry; NSDME* Industrial Mineral Occurrence Data Card # H01-02; Primary commodity - gypsum; H01-02(I); gyp
- Mine/Quarry boundary
- Mine tailings
- Peat bog (horticultural peat ≥ 100 ha)

Note: Each peat bog location will be accompanied by a reference number from the NSDME* summary report, **The Evaluation of Nova Scotia's Peat Resources.**

Industrial Minerals & Commodities:

Alumina	Diatomite	Marl
Agate	Dolomite	Mica
Agalmatolite	Epidote	Peat moss
Amethyst	Feldspar	Potash (sylvite, carnallite)
Andalusite,(alumina)	Fluorite	Rocksalt (halite)
Anhydrite	Fullers earth	Sandstone
Anorthosite	Garnet	Serpentine
Barite	Granite	Silica
Beryl	Graphite	Silica (quartz, quartzite)
Borate	Grinding pebbles	Silica Sand
Brucite	Gypsum	Slate
Building stone	Howlite (borate)	Spodumene (lithium)
Celestite (strontium)	Ilmenite, rutile (titanium)	Sulphur
Chalcedony	Jasper	Talc
Clay	Limestone	Topaz
Crushed stone	Magnesite	Wollastonite
Danburite (borate)	Marble	Zeolites

- Drillhole ⊕

Note: Each drillhole location or area of concentrated drilling will be accompanied by a reference number or range of numbers from the NSDME* Drillhole Database, and by a listing of the commodities found at that location.

ENERGY RESOURCES

- Coal field boundary (approximate)
- Coal mine (active, inactive)
- Coal seam (approximate, inferred)
- Coal waste bank
- Near surface coal resource (≤ 100 feet below surface)
- Underground coal resource (≥ 100 feet below surface)
- Peat bog (fuel peat ≥ 100 ha)

Note: Each peat bog location will be accompanied by a reference number from the NSDME* summary report, **The Evaluation of Nova Scotia's Peat Resources.**

- Oil shale
- Surface Petroleum shows

Note: Each surface petroleum show location will be accompanied by a reference number from the NSDME* publication, **Surface Petroleum Shows Onshore Nova Scotia.**

- Drillhole

Sample: Petroleum well; Index # P-97 NSDME* publication, **Petroleum Wells and Drillholes with Petroleum Significance Onshore Nova Scotia.**; P-97

Sample: Miscellaneous drillhole with petroleum show; Index # M-54, NSDME* publication, **Petroleum Wells and Drillholes With Petroleum Significance.**; M-54

LANDFORMS

Glaciofluvial deposits
- Kames, kame terraces, outwash
- Eskers

Glaciolacustrine deposits

Glaciomarine deposits

Drumlins

Sink hole, sink hole topography

Exposed bedrock (or thin till veneer)

GEOLOGICAL POINTS OF INTEREST

Geological points of interest

(*Source: Geological Highways Map of Nova Scotia by Bujak, J.P. and Donohoe, H.V., Jr., 1980. Atlantic Geoscience Society, Special Publication No. 1.)

LAND USE

Land owned/leased by mining companies (Z)

Note: The following categories are those land uses which completely or partially restrict mineral exploration and mining.

COMPLETELY RESTRICTED

- National Defence land (D)
- National park, national historic park, national historic site, heritage canal (NP)
- Uranium closure area (U)

PARTIALLY RESTRICTED

- Protected beach (designated under the Beaches Preservation and Protection Act) (B)
- Ecological site/protected site (designated under the Special Places Protection Act) (E)
- Game preserve/wildlife management area (GP)
- Indian reserve (IR)
- Major airport (civilian) (A)
- Preservation area (Peggys Cove and Sherbrooke Village) (R)
- Provincial park (or park reserve ≥ 2 km²) (P)
- Town/city land (T)
- Watersupply watershed (W)
- Land Use Boundary

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Nova Scotia **Department of Mines and Energy**

Canada - Nova Scotia Mineral Development Agreement

MRLU
CAPE BRETON COUN
SHEET 11F/16