GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

LEGEND

CENOZOIC

PLEISTOCENE AND RECENT

Extensive drift-covered areas; muskeg, soil, till, gravel, alluvium

PALAEOZOIC (?) OR MESOZOIC (?)

CARBONIFEROUS (?) OR TRIASSIC (?)

14 BONAVENTURE FORMATION: reddish and greenish conglomerate, arkosic sandstone and siltstone, shale, limestone

PALAEOZOIC

CARBONIFEROUS
PENNSYLVANIAN

13 BATHURST AND CLIFTON FORMATIONS: red conglomerate and grit, red sandstone and shale; grey sandstone and shale, grey-green siltstone, minor olive-green and red shale

DEVONIAN

12 ACID INTRUSIVE ROCKS: granite, gneissic granite, quartz monzonite, granodiorite, and associated quartz and quartz-feldspar porphyries

DEVONIAN AND SILURIAN (?)

11 BASIC INTRUSIVE ROCKS: diabase, gabbro, diorite, serpentinized peridotite

LOWER DEVONIAN

10 DALHOUSIE FORMATION (9 and 10)
VOLCANIC ROCKS: andesite and associated dykes and sills, andesite tuff; rhyolite, felsite, and agglomerate; minor shale and siltstone

9 SEDIMENTARY ROCKS: shale, argillite, siltstone, mudstone, limestone and conglomerate; minor volcanic rocks

SILURIAN
UPPER SILURIAN (may include some Lower Silurian; includes Chaleur Bay Group)

8 VOLCANIC ROCKS: rhyolite, rhyolite tuff, trachyte, dacite, andesite, basalt, agglomerate, flow breccia, porphyry; minor sedimentary rocks

7 SEDIMENTARY ROCKS: argillite, phyllite, siltstone, mudstone, sandstone, limestone, greywacke, and conglomerate. Skarn and hornfels in vicinity of granitic rocks

ORDOVICIAN (?)

6 BASIC INTRUSIVE ROCKS: diabase, gabbro, diorite

5 ELMTREE GROUP: phyllite, slate, argillite greywacke, conglomerate, siliceous limestone. Basic volcanic flows and breccia in lower part. Skarn and hornfels in vicinity of granitic rocks

ORDOVICIAN (Middle Ordovician in part; includes Tetagouche Group)

4 SEDIMENTARY ROCKS: grey, black, green, and red phyllite and slate, greywacke; various siliceous sedimentary rocks, minor siliceous limestone and conglomerate. In places includes rocks of units 3, 2 and 1

3 BASIC VOLCANIC ROCKS: basalt, basaltic tuff, andesite; minor sedimentary rocks

2 AUGEN SCHISTS: quartz and quartz-feldspar augen schist, quartz-sericite schist, quartz-chlorite-sericite schist; minor iron-formation and basic volcanic rocks

1 ACID VOLCANIC ROCKS: rhyolite, trachyte, quartz and quartz-feldspar augen schist, quartz-sericite schist; minor iron-formation and basic volcanic rocks

Geological boundary (approximate)
Fault (defined, approximate, assumed)
Anticline (approximate)
Syncline (approximate)
Mining property (see index below) ×

MINING PROPERTIES AND PROSPECTS

1. Keymet Mines Ltd.
2. Nigadoo River Mines, Ltd.
3. Beresford Mines Ltd. – Noranda Mines Ltd.
4. Quebec Sturgeon River Mines, Ltd. (Millstream Iron deposit)
5. Quebec Sturgeon River Mines, Ltd. (Hachey and Shaft deposits)
6. Anaconda American Brass, Ltd. (Armstrong 'A' deposit)
7. Anaconda American Brass, Ltd. (Armstrong 'B' deposit)
8. Anaconda American Brass, Ltd. (Rocky Turn Group)
9. Tetagouche Exploration Co., Ltd. (Orvan Brook)
10. Great Northern Development Corp., Ltd.
11. Anaconda American Brass Ltd. (McMaster)
12. Anaconda American Brass Ltd. (Caribou)
13. Kennco Explorations (Canada) Ltd. (Murray deposit)
14. Restigouche Mining Co. (New Jersey Zinc)
15. Devil's Elbow Mines, Ltd.
16. Middle River Mining Co., Ltd. (Texas Gulf Sulphur Co., Ltd.)
17. Cominco Ltd. (Wedge)
18. Cominco Ltd. (Stratmat)
19. Heath Steele Mines, Ltd.
20. Heath Steele Mines, Ltd.
21. Heath Steele Mines, Ltd.
22. Cominco Ltd. (Nepisiguit)
23. Captain Mines, Ltd.
24. Brunswick Mining and Smelting Corp., Ltd. (No. 6)
25. Brunswick Mining and Smelting Corp., Ltd. (No. 12)
26. Key-Anacon Mines, Ltd. (New Larder U)

To accompany GSC Paper 66-18 by W. M. Tupper, et al., GSC Paper 66-59 by W. M. Tupper, and GSC Paper 67-49 by J. L. Davies et al.

Compiled by R. W. Boyle and H. Lo, 1967 from published maps of the Geological Survey of Canada and the New Brunswick Department of Natural Resources

Road, all weather
Other roads
Railway
County boundary
Parish boundary
Intermittent stream
Contour (interval 200 feet)

Base-map cartography by the Geological Survey of Canada, 1968 from maps published at 1:250,000 by the Surveys and Mapping Branch, 1959, 1960, and from New Brunswick Highway Department Road Index Map 1967

Figure 1

Geology and principal base metal deposits, Bathurst area, New Brunswick.

Scale 1:190,080
(1 inch to 3 miles)

Miles 3 0 3 6 9 Miles
Kilometres 4 0 4 8 12 Kilometres

Geological cartography by the Geological Survey of Canada, 1968

Approximate magnetic declination 1967, 23°48′ West decreasing 1.6′ annually

INDEX MAP

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE

Figure 1

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