



GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

PRELIMINARY SERIES



LEGEND

- 9 VERULAM FORMATION: alternating blue, fine- and medium-crystalline limestone (claystone and lithographic limestone) with grey shale; very fossiliferous
- 8 BOBCAYGEON FORMATION: upper member; grey weathering, brown, fine-crystalline, sublitographic and digitate limestone; fossiliferous
- 7 BOBCAYGEON FORMATION: lower member; greyish-brown weathering, grey, fine-crystalline, and calcarenite limestone alternating with minor sublitographic limestone
- 6 GULL RIVER FORMATION: member D - brown, semicrystalline and lithographic limestone; member C - alternating massive and thin-bedded grey lithographic limestone; member B - medium beds of grey lithographic, argillaceous and biohermal limestone; underlain by thin-bedded lithographic limestone
- 5 GULL RIVER FORMATION: member A, upper submember - alternation of grey lithographic limestone and brown, fine-crystalline dolomite and limestone
- 4 GULL RIVER FORMATION: member A, middle submember - dark brown, lithographic and digitate (yellow dolomite) limestone; lower submember, brown, fine-crystalline and grey lithographic limestone
- 3 SHADOW LAKE FORMATION: red, black and green shales; sandstone and arkoses
- 2 POTSDAM FORMATION: red, white, grey and yellow, evenly textured, fine-grained sandstone, and siltstone; in Knowlton Lake area this formation includes 51 feet of underlying dark grey shale as lower member (not included above)
- 1 PRECAMBRIAN: undifferentiated - includes crystalline limestone inter-layered quartzite and marble, quartzite, several types of gneiss, pyroxene granite, migmatite, gabbro, pegmatite, red granite, monzonite, and diabase and andesite dykes

- Rock outcrop . . . . . x
- Geological boundary (defined, assumed) . . . . .
- Quarry . . . . . x
- Fault (approximate, assumed) . . . . .
- Glacial striae (with bearing in degrees) . . . . .
- Sand or gravel pit . . . . . x

Geology by B. A. Liberty, 1961, 1964, 1966

To accompany GSC Paper 70-35 by B. A. Liberty

Geological cartography by the Geological Survey of Canada

Approximate magnetic declination 1970,  
11° 30' West increasing 0.5' annually

Base-map at the same scale published by the  
Army Survey Establishment, R. C. E., 1960

Copies of the topographical edition of this map may be obtained  
from the Map Distribution Office, Department of  
Energy, Mines and Resources, Ottawa

Elevations in feet above mean sea-level

Published, 1970

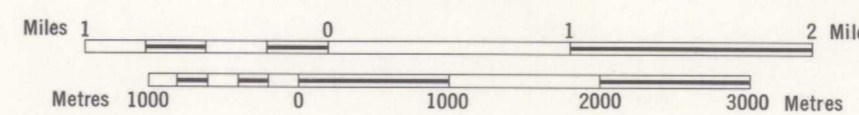


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PAPER 70-35  
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Scale 1:50,000



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31C/1	31C/2	31C/3
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31C/4	31C/5	31C/6
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45-1960	19-1970	20-1970

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE GRID  
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