GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

PRELIMINARY SERIES

Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

Printed by the Surveys and Mapping Branch, 1973

LEGEND

PALEOZOIC

6	**UNDIVIDED ORDOVICIAN: 6a, Upper Ordovician, Red River Formation - dolomitic limestone, dolomite**

ARCHEAN

5	QUARTZ MONZONITE: leucocratic, pink, massive, medium- to coarse-grained; generally less than 10% biotite + sphene + magnetite; minor amounts of granodiorite; 5a, porphyritic, generally near borders of intrusion
4	QUARTZ DIORITE, MINOR DIORITE AND GRANODIORITE: grey, massive, coarse-grained; generally 20% biotite + hornblende + sphene + magnetite; includes undivided older metamorphosed rocks 4a and 4b; 4a, quartz diorite granitized by quartz monzonite (5); 4b, grey to grey green, foliated to layered, coarse-grained, epidotized quartz dioritic rocks; metamorphic biotite + hornblende + epidote range from 15 to 30%
3	GRANITIC GNEISS AND MIGMATITE: white and grey fine- to medium-grained granoblastic biotite + hornblende-bearing quartzofeldspathic gneiss and coarse-grained lit-par-lit quartz monzonitic and granodioritic orthogneiss; unit is defined as granitized sequence of unit 2
2	TONALITE AND AMPHIBOLITE GNEISS: white, grey and black, layered, granoblastic gneiss containing biotite + hornblende (± clinopyroxene) + quartz + plagioclase; garnet occurs rarely; includes 40% layered quartz dioritic augen-gneiss
1	METAVOLCANIC GNEISS: fine- to medium-grained, thinly layered, granoblastic, black to grey gneiss; quartz + plagioclase + clinopyroxene (± biotite), clinopyroxene layers, epidote + calcite + altered pyroxene, biotite + hornblende, hornblende layers

Geological boundary (approximate, assumed)
Gneissosity, foliation (inclined, vertical, dip unknown)
Layering (inclined, vertical, dip unknown)
Axes of small folds (inclined)
Shear or schist zone (width indicated)
Glacial striae and chatter marks (direction of ice movement indicated)
Shoal rock or isolated outcrop in muskeg

Geology and interpretation by I. F. Ermanovics (1972)

To accompany GSC Paper 73-20 by I. F. Ermanovics

This preliminary edition may be subject to revision and correction

Geological cartography by the Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map published at the same scale by the Surveys and Mapping Branch in 1965

Copies of the topographical edition of this map may be obtained from Canada Map Office, 615 Booth St., Ottawa, Ontario K1A 0E8

Magnetic declination 1973 varies from 9′09″ easterly at centre of west edge to 10°16″ easterly at centre of east edge. Mean annual change -0.1″ easterly

Elevations in feet above mean sea-level

INDEX MAP

MAP 2 - 1973
PAPER 73-20
GEOLOGY

BERENS RIVER

(West Half)
MANITOBA

Scale 1:250,000

Miles 4 0 4 8 12 Miles
Kilometres 6 0 6 12 18 Kilometres

Universal Transverse Mercator Projection

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NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

MAP 2-1973
BERENS RIVER
(West Half)
MANITOBA

G
3401
.C5
1956
G4
omvfc

2-1973

C-1

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