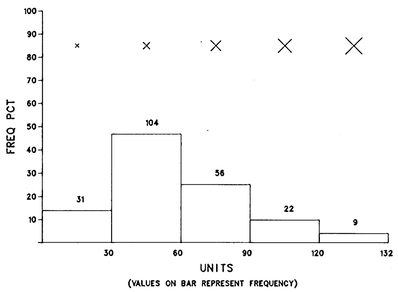
GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA

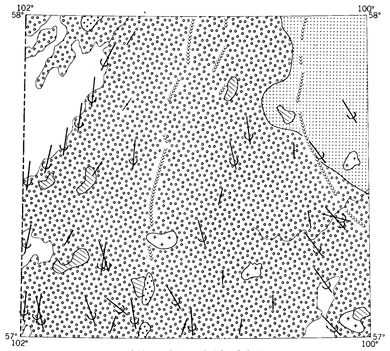
DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

64 F

N POINTS	222	MEAN	57
MEDIAN	52	STD DEV	27
MINIMUM	11	MAXIMUM	132



ZINC (PPM)
LESS THAN 2 MICRON FRACTION



SURFICIAL GEOLOGY

Kilometres 0 20 40

Scale 1:1 000 000

POSTGLACIAL ENVIRONMENT

ORGANIC DEPOSITS: marsh, fen, swamp and bog deposits up to 6 m thick.

PROGLACIAL AND GLACIAL ENVIRONMENT

GLACIOLACUSTRINE DEPOSITS: beach and nearshore deposits, reworked glaciofluvial deposits, sand and gravel 1-4 m thick.

GLACIOLACUSTRINE DEPOSITS: deep basin deposits: silt, clay and sand, 1-30 m thick

GLACIOFLUVIAL DEPOSITS: gravel, sand and silt, 1-100 m thick

GLACIAL ENVIRONMENT

GLACIAL DEPOSITS: till: 1-5 m thick, derived primarily from Precambrian bedrock

NONGLACIAL ENVIRONMENT

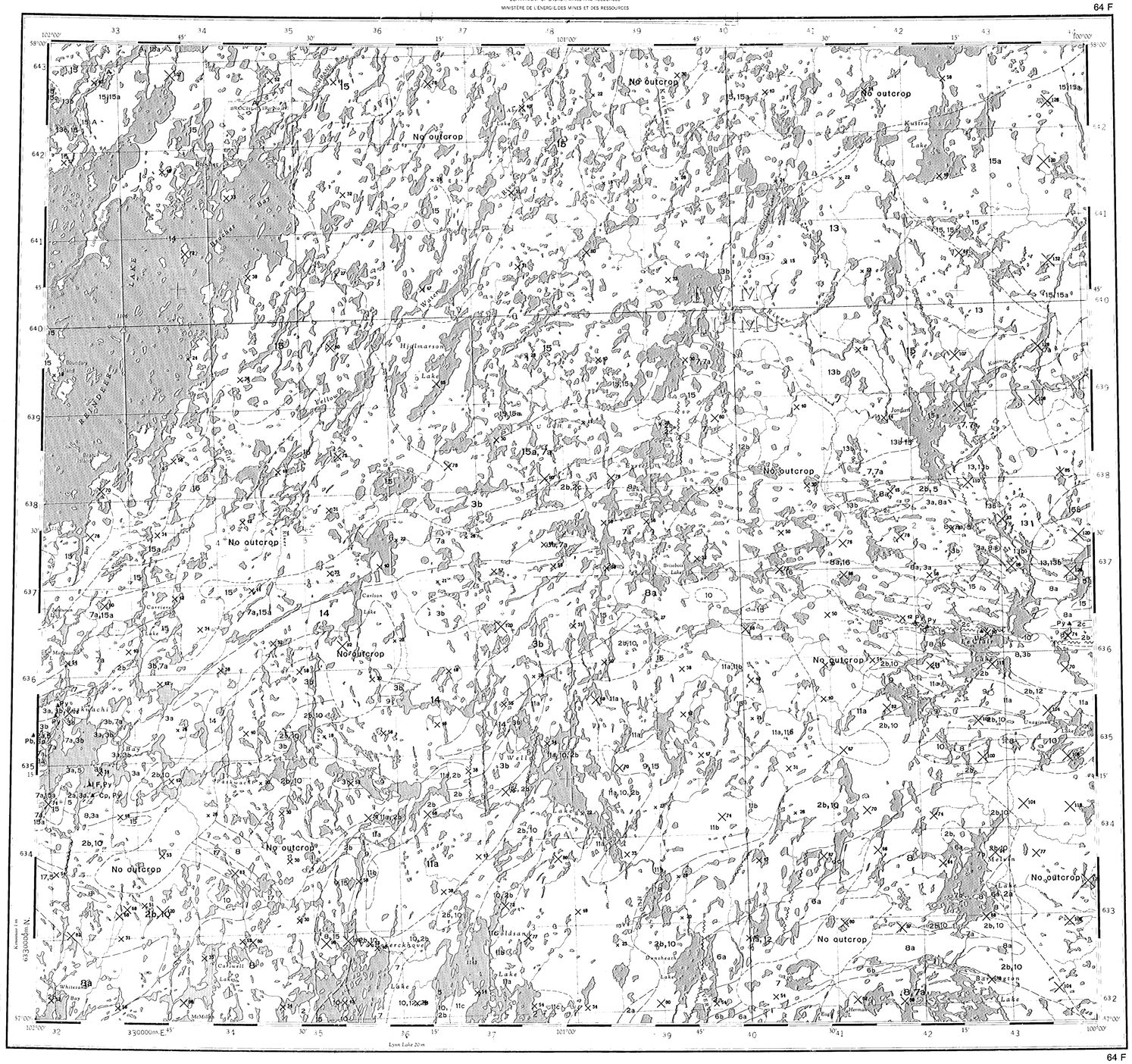
BEDROCK

Striations .....

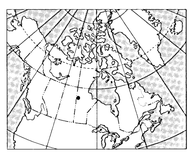
Flutings, drumlins, and drumlinoid ridges, oriented parallel to ice flow direction .....

Esker (flow direction known or inferred) .....

Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada
Geological Survey of Canada
Commission géologique du Canada



64 F



INDEX MAP

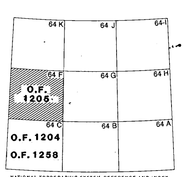
TILL GEOCHEMISTRY
BROCHET, MANITOBA

R.N.W.DiLabio and C.A.Kaszycki

Scale 1:250 000

Kilometres 5 0 5 10 15 20 Kilometres

Universal Transverse Mercator Projection



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

LEGEND

A*	Metadiorite, hornblendite of possible Archean age
1	Amphibolite, volcanic derived with locally preserved pillows
2a	Biotite-feldspar-quartz-paragneiss + garnet + granite ± muscovite
2b	Biotite metatexite + garnet + granite (25-75% white granitic lit)
2c	Biotite metatexite + garnet + cordierite
3a	Light grey biotite (5-10%) quartz-feldspar-gneiss + magnetite + garnet with discontinuous diorite gneiss lenses
3b	Light grey to dark grey biotite (5-15%) quartz-feldspar-gneiss interlayered with thin layers of amphibolite and/or hornblende-biotite bearing layers
4	Calc-silicate rock
5	Amphibolite, metagabbro, locally agmatitic
6a	Metaconglomerate
6b	Thin interlayered amphibolite and hornblende biotite-bearing layers
6c	Arkosic gneiss
6d	Metavolcanic rocks
6e	Metagreywacke
7	Gneissic diorite and leucodiorite
7a	Biotite ± hornblende granodiorite gneiss with white granitic lit
7b	Gabbro
8	Grey, medium to coarse grained biotite (5%) + magnetite-tonalite to quartz monzonite
8a	Hybrid gneiss of grey biotite-quartz monzonite and gneissic diorite
9	Foliated quartz diorite + magnetite
10	Biotite (15-20%) - tonalite ± garnet
11a	Megacrystic biotite-granodiorite
11b	Megacrystic biotite-hornblende ± pyroxene-granodiorite
11c	Coarse grained leucocratic granodiorite
12	White leucocratic medium grained to pegmatitic monzogranite ± garnet
13	Coarse grained to megacrystic-pyroxene-hornblende-monzonite to monzogranite with olive-brown feldspar
13a	Anorthositic gabbro
13b	Hornblende-biotite-monzonite to quartz monzonite with varigated olive-brown and pink feldspar
14	Megacrystic-biotite-magnetite quartz monzonite
15	Biotite ± hornblende coarse grained to megacrystic pink granite to quartz monzonite
15a	Biotite-hornblende granite gneiss
15b	Leucocratic megacrystic pink granite
15c	Fine grained quartz monzonite
16	Magnetite-biotite-hornblende quartz monzonite
17	Granite pegmatite
18	Diabase

Pyrite, chalcopyrite, galena, sphalerite, Iron Formation ..... ▲Py; ▲Cp; ▲Pb; ▲Sp; ▲I.F.
Geological boundary (approximate, assumed, gradational) .....
Drift covered .....

Provisional Compilation map by D.C.P. Schledewitz
Manitoba Department of Energy and Mines

Contribution to the
CANADA-MANITOBA MINERAL DEVELOPMENT AGREEMENT 1984-1989

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OTTAWA
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Manitoba
Energy and Mines