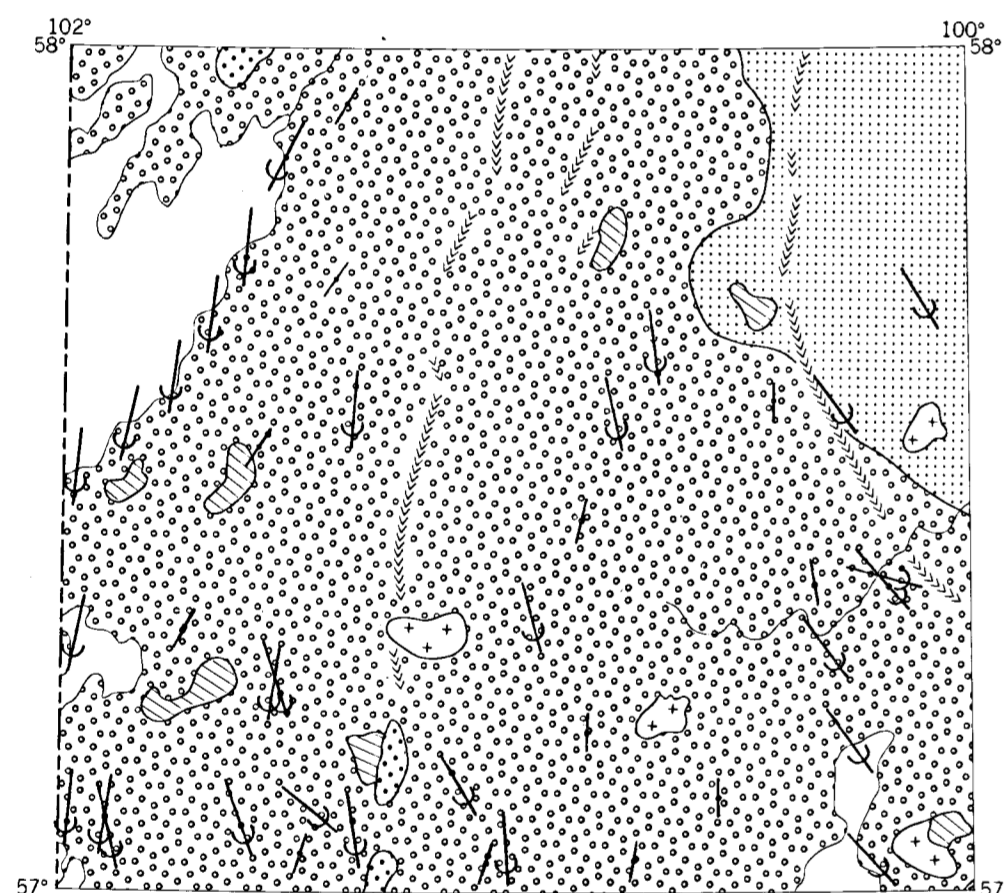


IRON (PCT)  
 LESS THAN 2 MICRON FRACTION



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 glacioluvial 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

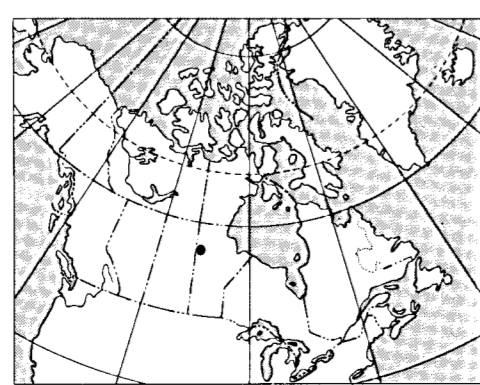
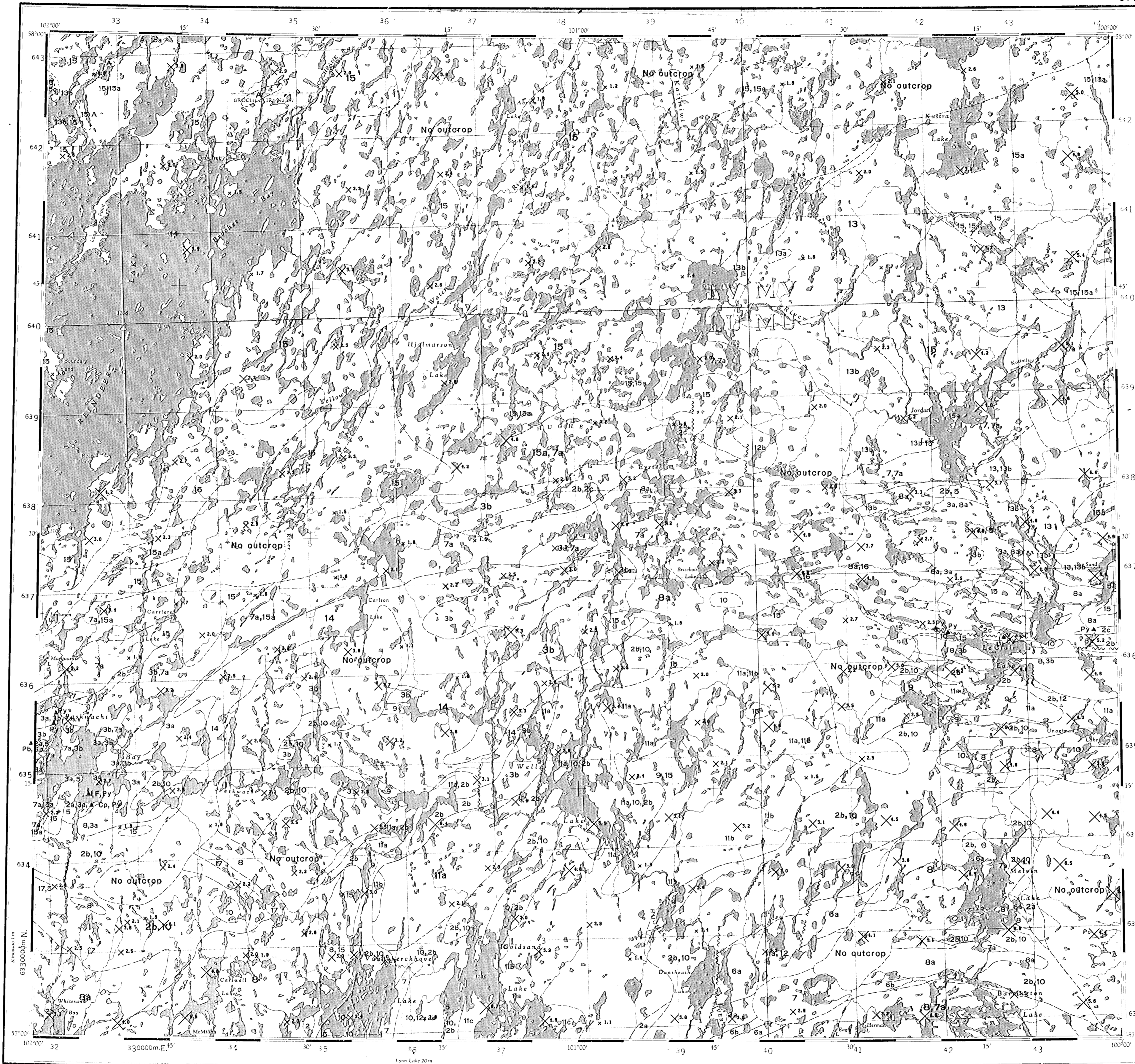
GLACIAL ENVIRONMENT

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) .....



TILL GEOCHEMISTRY  
 BROCHET, MANITOBA

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

Scale 1:250 000  
 Kilometres 5 10 15 20

Universal Transverse Mercator Projection  
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- LEGEND
- A\* Metadiorite, hornblende 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 variegated 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 .....  
 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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