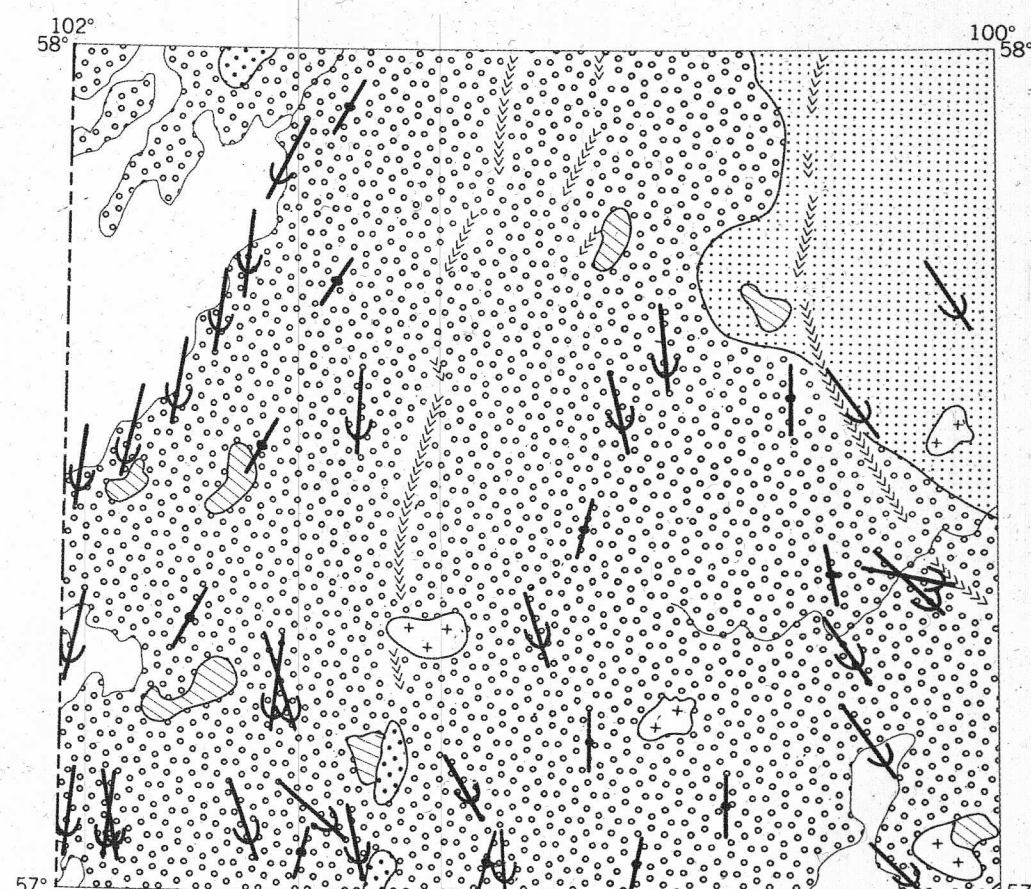
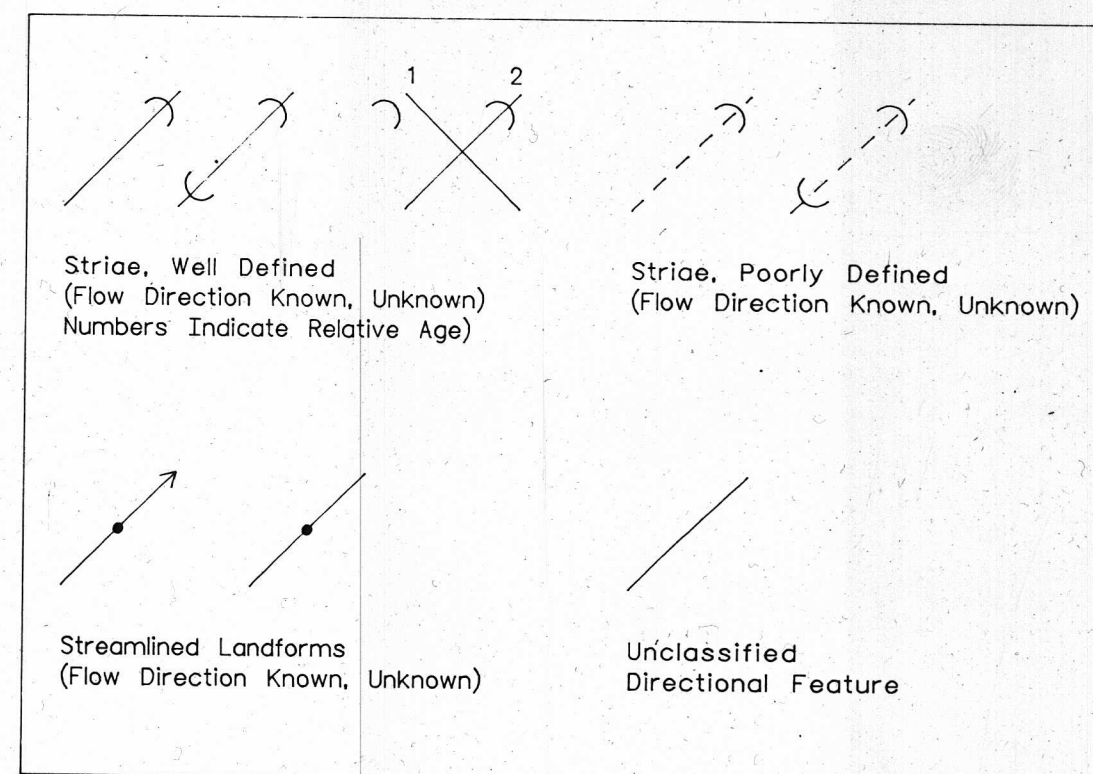


SAMPLE LOCATIONS & STRIATIONS 64F

+1984 DDA, KDA



SURFICIAL GEOLOGY

PROGLACIAL AND GLACIAL ENVIRONMENT

- GLACIOLACUSTRINE DEPOSITS: beach and nearshore deposits: sand and gravel 1-4 m thick, forming distinct ridges
- 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

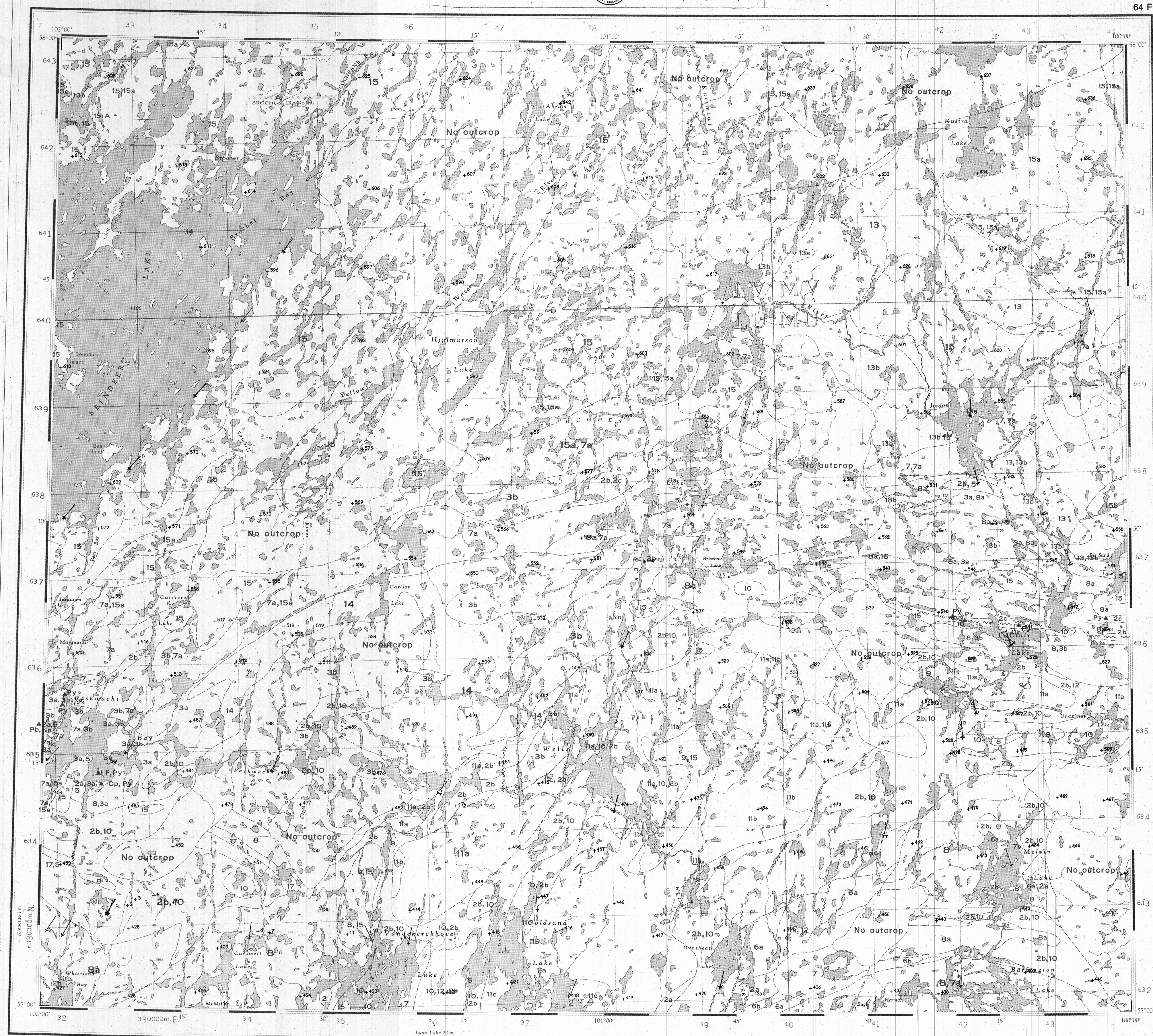
NONGLACIAL ENVIRONMENT

- BEDROCK
- ORGANIC DEPOSITS: marsh, fen, swamp and bog deposits up to 6 m thick, characterized by seasonal flooding

- Striations
- Flutings, drumlins, and drumlinoid ridges, oriented parallel to ice flow direction
- Esker (flow direction known or inferred)

Contribution to Canada-Manitoba Mineral Development Agreement 1984-89, a subsidiary agreement under the Economic and Regional Development Agreement. Project funded by the Geological Survey of Canada.

Contribution à l'Entente auxiliaire Canada/Manitoba sur l'exploitation minière 1984-89 faisant partie de l'Entente de développement économique et régional. Ce projet a été financé par la Commission géologique du Canada.



TILL GEOCHEMICAL SURVEY NORTH-WEST MANITOBA 1985

CANADA-MANITOBA
MINERAL DEVELOPMENT AGREEMENT (1984-1989)

Scale 1:250 000
Universal Transverse Mercator Projection
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Elevation in feet above mean sea level

Mean magnetic declination 1985, 11°52' East, decreasing 23.2' annually. Readings vary from 10°28' in the SE corner to 13°05' in the NW corner of the map area

Base map at the same scale published by the Surveys and Mapping Branch in 1963

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 Metacglomerate
- 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, chalcopryite, galena, sphalerite, Iron Formation
Geological boundary (approximate, assumed, gradational)
Drift covered

Provisional Compilation map by H.W. Zwanig,
Manitoba Department of Energy and Mines

* A four character mnemonic name recorded rock type as part of the 1984 field observations

Sheet 7 of 7

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COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA
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