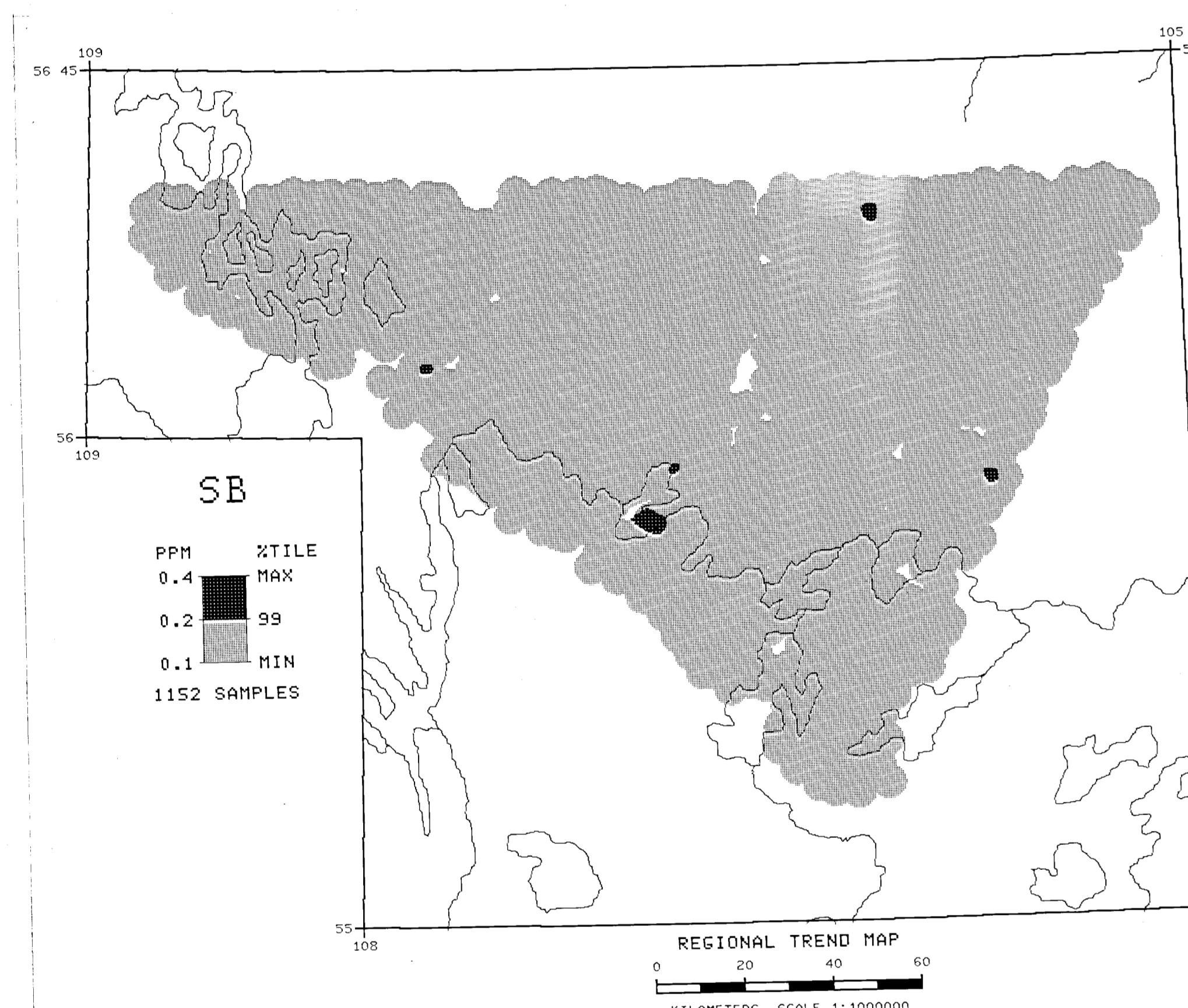


ENVIRONMENT CATEGORY	GEOGRAPHIC MODIFIER
Organic	c concealed
Glaciolacustrine	w weathered
Glacioluvial	e eroded
Morainal	g gullied
Rock	k collapsed
Colluvial	v veneer
Rock	r ridged
Colluvial	h hummocky
Rock	d drumlinoid
Colluvial	t terrace

Complexes: where two or more classes of terrain are interspersed in a mosaic or repeating pattern the proportion of each component in the combination is given in a three-position designation set off by slashes denoting arbitrary percentage limits. For example, "M/D/R" means that at least 60% of the area is underlain by thin till, with up to 40% boggy areas, and less than 15% scattered rock outcrops. "M/D/R" indicates more than 60% bedrock concealed by vegetation and less than 15% outcrop. "M/R" indicates at least 60% morainal veneer and up to 40% bedrock exposures.

GLACIAL FEATURE SYMBOLS
 Boundary of overburden unit
 Drumlin, drumlinoid ridge, fluting
 Striation, groove (ice direction inferred)
 End moraine
 Esker, crevasse filling

Surficial geology modified from:
 Scowen, G.L. (1984) Quaternary Geology of the Precambrian Shield, Map 221A (1:1,000,000 scale), to accompany Report 221, Saskatchewan Energy and Mines.



The regional geochemical trend map displayed above utilized a moving weighted average using an inverse distance function (1/r²) to filter out minor irregularities and emphasize broad-scale regional features. Single point anomalies may be suppressed or eliminated, however, geological units which are chemically enriched or large metallic deposits undergoing weathering would be expected to produce identifiable anomalies.

Geological Survey of Canada
 Resource Geophysics and Geochemistry Division
 and
 Department of Mineral Resources
 Saskatchewan Geological Survey

CONTRACTORS
 Sample collection by MPH Consulting Ltd., Toronto
 Sample preparation by Golder Associates

Sediment chemical analyses by Barringer Magenta Ltd., Rexdale, Ontario
 Water chemical analyses by Barringer Magenta Laboratories (Alberta) Ltd., Calgary

This map forms one of a series of maps released by the Geological Survey of Canada, Open File 1213. The Open File consists of maps of various geochemical variables: 16 for lake sediments, 3 for lake water and 1 sample site location.

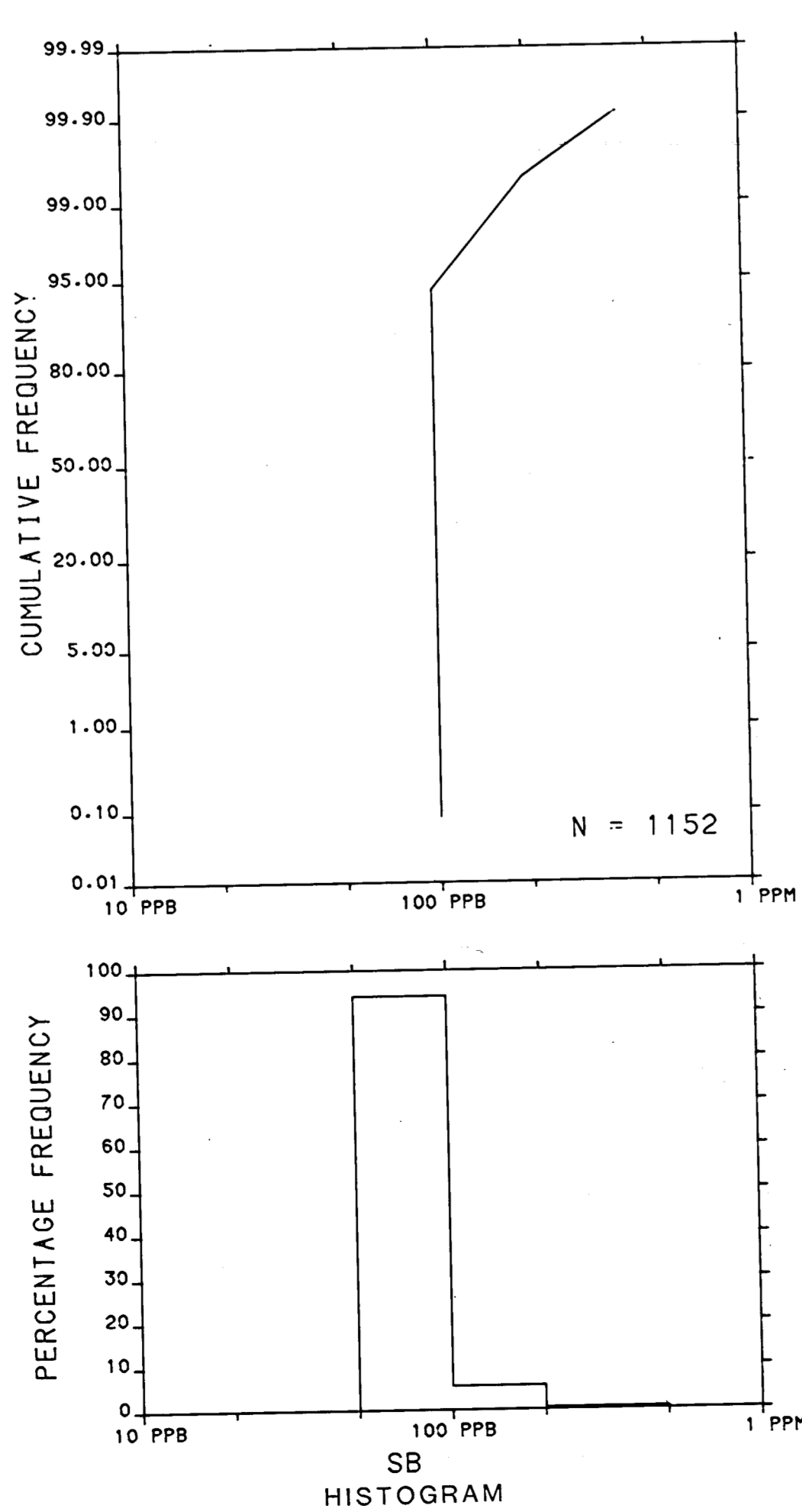
Copies of map material and listings of field observations and analytical data, from which the material was prepared, may be available at users expense by application to:

K.G. Campbell Corporation
 800 Wellington St.
 Box 238
 Ottawa, Ontario
 K1R 6K7

The data are also available in digital form. For further information please contact:

The Director
 Computer Science Centre
 Department of Energy, Mines and Resources
 Ottawa, Ontario
 K1A 0G6

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LEGEND

QUATERNARY
 (MOR 44)* Recessional moraine: unconsolidated sand and gravel of the Great Lakes moraine.

MESOZOIC
LOWER CRETACEOUS
 (SNOS 36) MANVILLE GROUP: Sandstone, variably argillaceous and carbonaceous quartzose sands, local mudstone and lignitic interbeds.

PALEOZOIC
MIDDLE DEVONIAN
 (DLM 18) WINDPEGGSIS FORMATION: Dolomite, dolomitized limestone, calcareous shale.
 (LMSN 18) MEADOW LAKE FORMATION (Upper member): Limestone, dolomite, mudstone, argillaceous dolomite, dolomitic limestone and dolomitic argillite mudstone.
 (AGC 18) MEADOW LAKE FORMATION (Lower member): Argillaceous dolomite with local interbeds of mudstone, sandstone and limestone, minor gypsum bands.

CAMBRIAN
 (SNOS 12) DEANWOOD FORMATION: Quartz sandstone, unstratified polymictic conglomerate near base, minor sandy dolomite. Overlies severely weathered, saproplitic Precambrian basement.

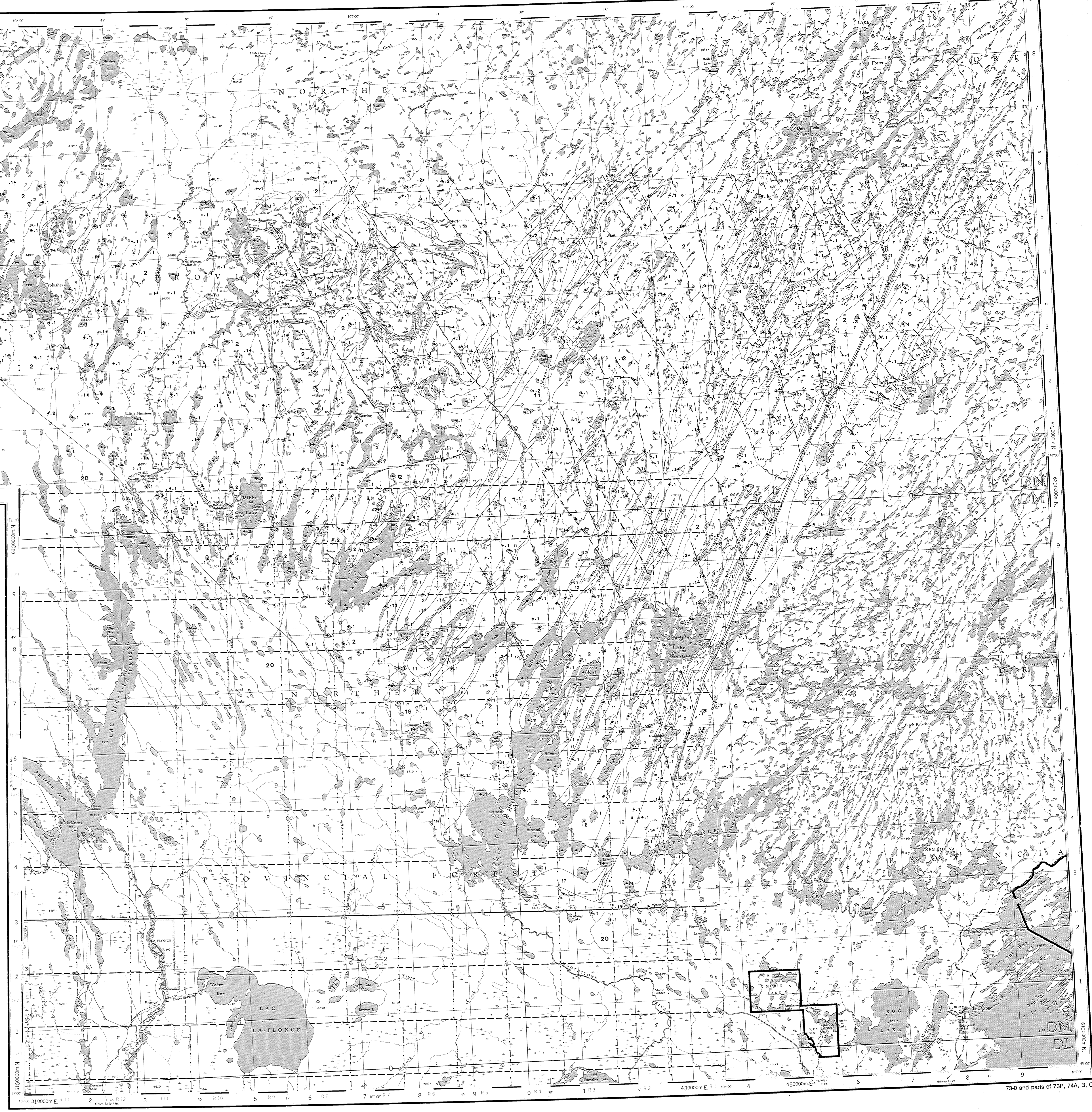
PRECAMBRIAN
MAINLY APHEBIAN (HUDSONIAN)
 (MFC 04) Ultramafic and mafic rocks, includes gabbro, diorite, syenite, quartz diorite and basalt, locally serpentinitized.
 (IRPK 04) Banded iron formation, alternating bands of meta-quartzite common.
 (CLCC 04) Calc-silicate and marble, local interbedded meta-arkose and dolomitic marble.
 (PMS 04) Psammite gneiss and meta-arkose gneiss, with interbedded calc-silicate rock and pelitic gneiss.
 (PCSC 04) Pelitic to psammopelitic gneiss and schist, generally contain more than 10 percent mafic minerals, biotite + garnet + cordierite + sillimanite + graphite + tourmaline.
 (MOR 04) Metagabbro and minor orthoquartzite with a persistent basal polymictic conglomerate.
 (BMS 04) Biotite gneiss of possible volcano-sedimentary origin, conformable granitoid sheets may comprise up to 50 percent of unit.
 (MPK 04) Mixed metasedimentary and metavolcanic rocks, probably derived from mudstone, sandstone, arkose, conglomerate, acid to basic volcanic and volcaniclastic rocks.
 (BGR 04) WATHAMAN BATHOLITH: Biotite-hornblende granodiorite.
 (BMGT 04) WATHAMAN BATHOLITH: Biotite monzogranite-granodiorite.
 (SMT 04) Syenogranite and monzogranite, generally leucocratic.
 (MGT 04) Migmatite and mylonite zones: complexes of mixed metasediments and granitic rocks, and strongly foliated or augen Wathaman batholith rocks.

MAINLY ARCHEAN, DEFORMED WITH APHEBIAN ROCKS DURING HUDSONIAN OROGENY
 (APRS 03) Amphibolite and hornblende bearing gneisses, meta-gabbro and metadiorite.
 (GRNG 03) Granitoid gneiss, syenogranitic to granodioritic in composition, may include alkalic and amphibolite inclusions.
 (DORT 03) Diorite

*A mnemonic code assigned to rock types and recorded as part of field observations.

Geological boundary: approximate, assumed
 Fault
 No analytical result

Geological base and legend are derived from: Thomas, M.W. and Stilleman, W.L. (1955): Compilation Bedrock Geology, 116-1-10-Cross, NTS area 230; Saskatchewan Energy and Mines, Report 045 (1:250,000 scale map with marginal notes).
 Lewis, J.F. and Stilleman, W.L. (1961): Compilation Bedrock Geology, Lac La Ronge, NTS Area 73P/73J; Saskatchewan Energy and Mines, Report 055 (1:250,000 scale map with marginal notes).
 Ray, G.L. (1983): Compilation Bedrock Geology, Foster Lake, NTS Area 744; Saskatchewan Energy and Mines, Report 208 (1:250,000 scale map with marginal notes).
 Thomas, M.W. (1984): Preliminary Compilation Bedrock Geology, Macdonald, NTS Area 748 (1:250,000 scale map with marginal notes).
 Macdonald, R. and Broughton, P. (1980): Geological Map of Saskatchewan Provisional Edition, North Half, Saskatchewan Mineral Resources, (1:1,000,000 scale map with marginal notes).



Elevation in feet above mean sea level
 Mean magnetic declination 1985, 17°29' East,
 decreasing 20.4' annually. Readings vary
 from 10°30' East in the SE corner to 20°00' East
 in the NW corner of the map area

Base map assembled by the Geological Survey of Canada from maps published at the same scale by Moore and Charting (Staff) sheets, Department of National Defence and the Survey and Mapping Branch, Department of Energy, Mines and Resources in 1974, 1977, 1982