

LEGEND

PHANEROZOIC

PALEOZOIC

HUDSON BAY BASIN

- 17 Ordovician limestone and sandstone of the basal members of the Portage Chute Formation - Bad Cache Rapids Group

PRECAMBRIAN

PROTEROZOIC

CHURCHILL SUPERIOR BOUNDARY

- 16 Cataclastic rocks and mylonites of unknown origin
- 16a Cataclastic rocks and mylonites derived from rocks of both Superior and Churchill Provinces
- 16b Layered mylonites

CHURCHILL PROVINCE

INTRUSIVE ROCKS

- 15 Granite; massive white to pink, biotite-bearing; 15a) massive pink leucogranite 15b) megacrystic granite and syenogranite
- 14 Tonalite to granite; 14a) hornblende-bearing granodiorite
- 13 Hornblende and hornblende-biotite gneiss and migmatites of unknown affinity; may contain inclusions of units 10, 11 and 12

METASEDIMENTARY AND METAVOLCANIC ROCKS

- 12 Metasedimentary rocks of the Sickle Metamorphic Suite
- 11 Amphibolite; includes layered hornblende-diopside amphibolite, massively layered amphibolite and metabasalt in the Assean Lake area
- 10 Metasedimentary rocks of the Burntwood River Metamorphic Suite

SUPERIOR PROVINCE

PROTEROZOIC (INCLUDING HUDSONIAN TECTONITES)

- 9 Metasedimentary and mafic/ultramafic metavolcanic rocks of the Fox River belt
- 9a Differentiated ultramafic intrusive rocks
- 8 Tectonic complex; well foliated and discontinuously layered gneiss, comprising reworked Kenoran migmatites and early intrusive rocks.

ARCHEAN

- 7 Granite
- 6 Granite, granodiorite containing nebulitic zones of highly assimilated older gneiss
- 5 Hornblende and hornblende-biotite gneiss; comprising mobilized and injected layered gneiss and agmatites (derived from units 1, 2 and 3) with 10 to 75% tonalite to granodiorite lit
- 4 Felsic granulites
- 3 Tonalite-granodiorite with up to 0.75 cm hornblende clots, containing 0 to 25% inclusions of units 1 and 2
- 2 Anorthosite, anorthositic gabbro
- 1 Massive and layered amphibolites and metagabbros

The approximate magnetic declination at the centre of the area is 3°09'E (1982) and is decreasing by 14.3' annually.

SYMBOLS

- Geological contact (approximate, assumed (inferred from aeromagnetic signature), extended under water)
- Fault (defined, approximate)
- Isolated outcrop
- Geological Survey of Canada station location
- Age determination location (Rb-Sr, K-Ar)
- Original shoreline
- Present shoreline (limit of Kettle Rapids Generating Station forebay (1972). Longspruce Generating Station forebay (1978)
- Hydro dam axis
- Earth fill dykes

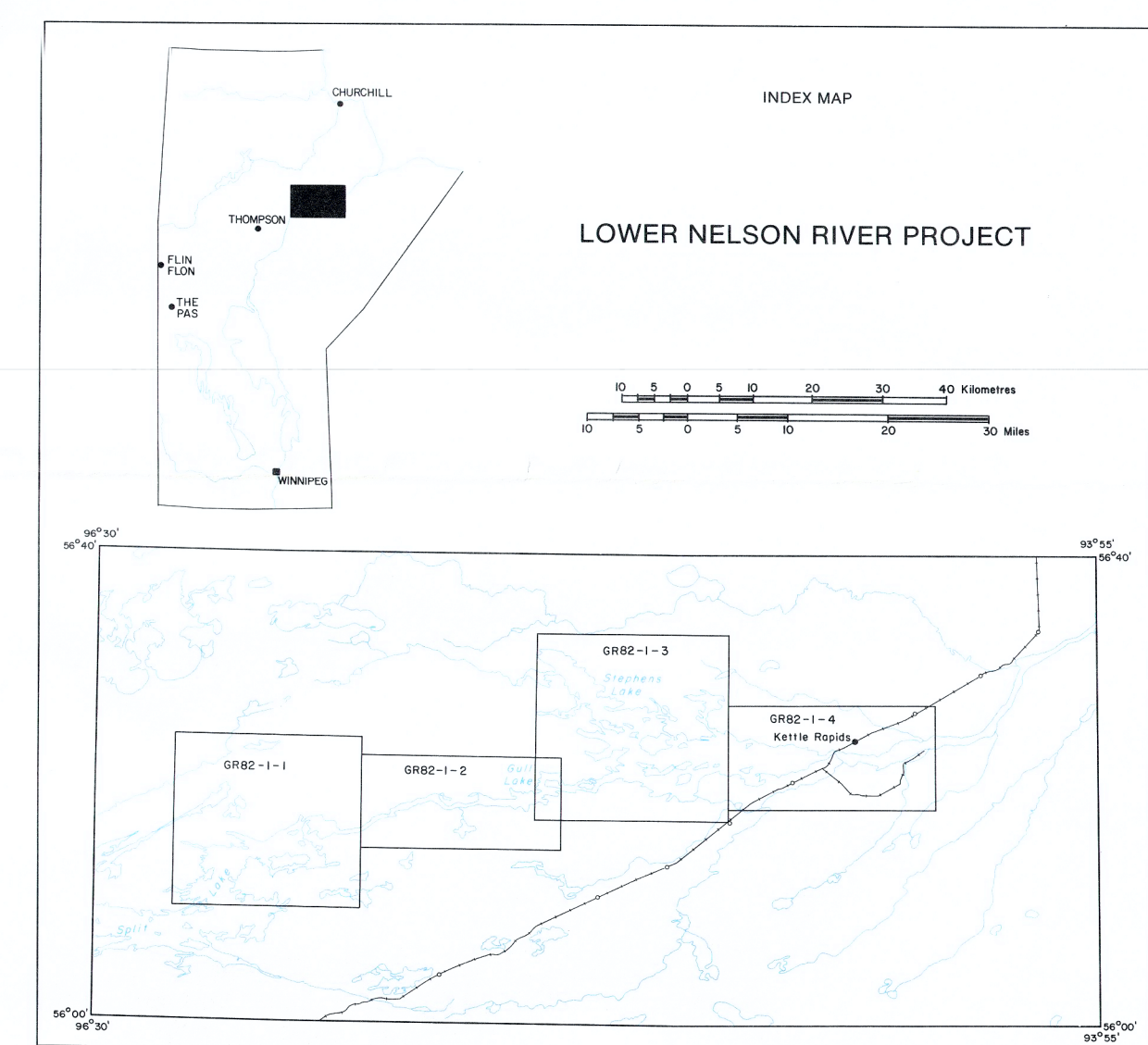
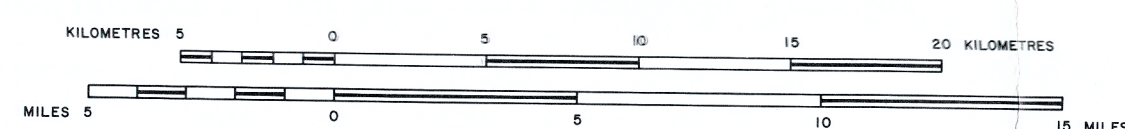
To accompany Geological Report GR82-1

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Scale 1:250 000



MAP GR82-1-5