Saskatchewan
Energy and Mines

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Geological Survey

Geology of Rare Element Pegmatites in the Hanson Lake Area (NTS 63L-10,-15)

Sheet 3: Hanson Lake Pegmatite Field

Preliminary Geological Map (1991)

by: **D. G. MacDougall**

(83)

Legend:

Bedrock geology generalized after Coleman, L. C., Gaskarth, J. W. and Smith, J. R. (1970); plate 1

A — **Amphibolite** and hornblende-rich rocks: in part metamorphosed basic intrusive rocks; in part metasomatized volcanic rocks

G — **Granite:** foliated biotite granite

V — **Volcanic rocks:** felsic, intermediate and mafic

Q — **Quartz-diorite:** gneissic, porphyroclastic and migmatitic quartz-diorite; quartz-diorite containing agmatitic amphibolite fragments

SYMBOLS:

Topographic

- Sphagnum bog
- Muskeg
- Stream

Geologic - General

- Limit of area of predominant outcrop
- Lithologic contact: observed or defined; approximate; uncertain
- 30cmP — Pegmatite dyke, <1 m outcrop width, width in centimetres indicated
- 5mP — Pegmatite dyke, >1 m outcrop width, drawn to scale and width in metres indicated

Notation for pegmatite dykes
P, pegmatite; AP, aplite; be, beryl; nb, columbite; mag, magnetite; tl, tourmaline

- 40 / 30cm — Quartz vein, thickness and dip indicated

Geologic - Structural

- 60 — Strike of foliation: with dip; vertical
- 50 — Axis of minor fold with plunge
- Fault
- 45 — Dip of pegmatite contact surface

Miscellaneous

- 9110i, 8920i — Rock sample site and number

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The area was geologically mapped by D.G. MacDougall (project leader) with the assistance of Donald Williams (1991) and Kent Fliesers (1991).

This preliminary map was printed from the geoscientific manuscript described in the Summary of Investigations 1991, Saskatchewan Geological Survey.

Sheet 1: Pegmatite 91-H, at 1:20 Scale
Sheet 2: Pegmatites 91-G and 91-H, at 1:500 scale
Sheet 3: Hanson Lake Pegmatite Field, at 1:5000 scale

Sheet 3: The topographic and geologic base for Sheet 3 is an enlarged and simplified version of Plate 1 of Coleman, L.C., Gaskarth, J.W. and Smith, J.R. (1970): Geology and geochemistry of the Hanson Lake Area, Saskatchewan; Saskatchewan Research Council Report 10, 10.

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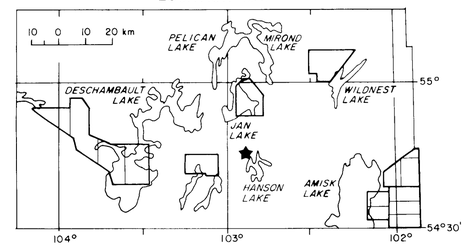
This map may be referenced as part of the following publication: MacDougall, D.G. (1991): Rare element pegmatites in the Hanson Lake pegmatite field; in Summary of Investigations 1991, Saskatchewan Geological Survey, Saskatchewan Energy and Mines, Miscellaneous Report 91-4.

LOCATION MAP



Scale 1:5,000

Metres 100 0 100 200 300 400 Metres
Feet 500 0 500 1000 1500 Feet