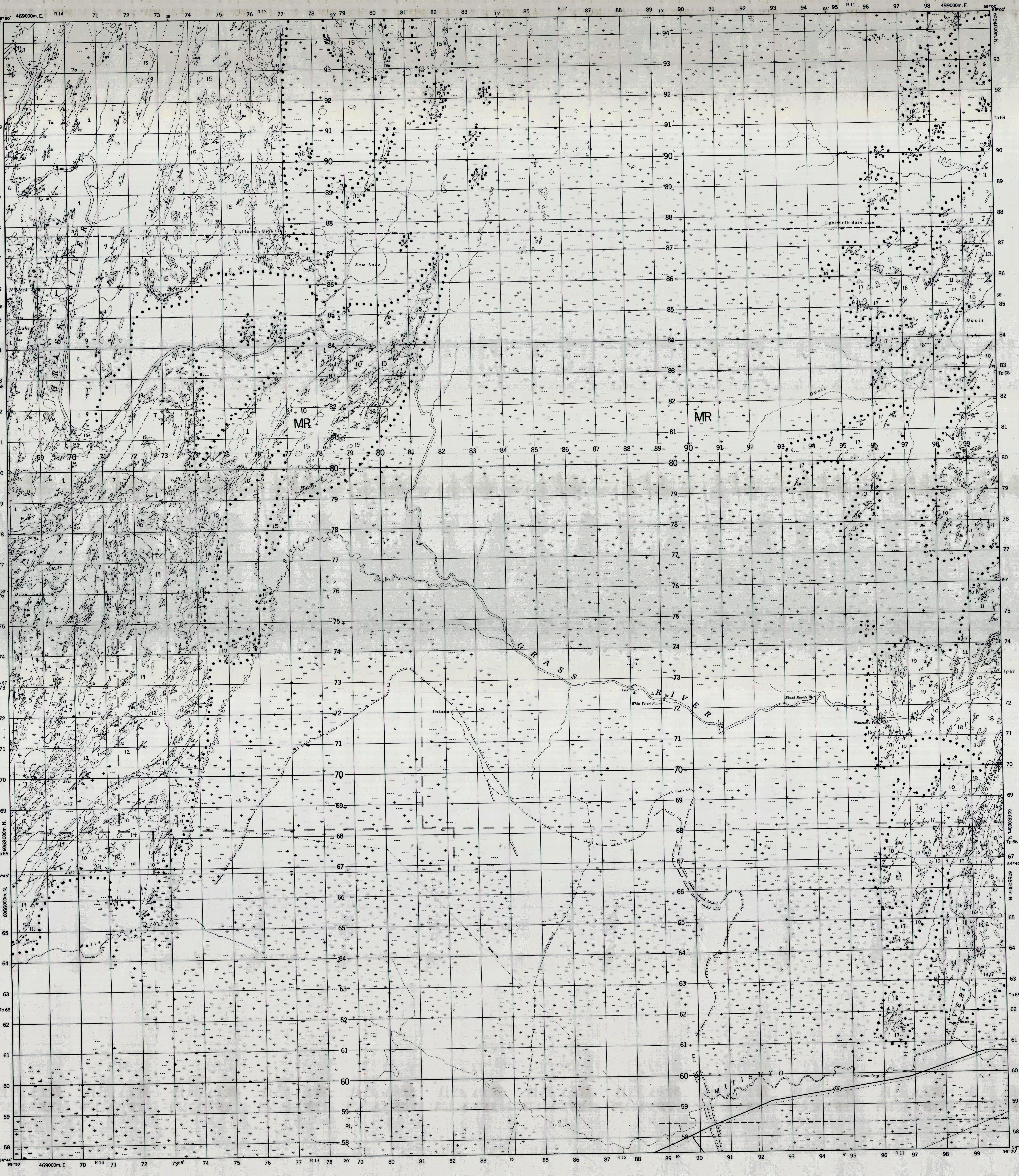
MANITOBA
DEPARTMENT OF MINES, RESOURCES & ENVIRONMENTAL MANAGEMENT

Mineral Resources Division, Geological Survey.

Preliminary Map Number: 1976B-1 N.T.S. 63J/14 & 63J/11 N.1/4

SAW LAKE

THE PAS MINING DISTRICT



Legend

PRECAMBRIAN (APHEBIAN)
INTRUSIVE ROCKS

19 Felsic pegmatite

18 Pink granite, with minor amounts of pink pegmatitic granite

17 Pink gneissic microcline augen granite

16 White tonalite, commonly pegmatitic, commonly garnetiferous

15 Light pink to white gneissic granodiorite and tonalite, commonly garnet-bearing

14 Pink gneissic magnetite-bearing granite

13 Gabbro and meta-gabbro, local feldspar orbicular gabbro; 13a) ultramafic?

GRANITOID GNEISSES OF UNCERTAIN GENESIS

12 Granitoid intermediate to mafic plagioclase-hornblende-quartz gneiss

11 Granitoid felsic microcline augen quartz-feldspar-biotite-hornblende gneiss, characteristically magnetite-bearing, gradational into rocks of units 10 and 17

10 Granitoid felsic quartz-feldspar-biotite gneiss, mainly derived from rocks of unit 7

SEDIMENTARY ROCKS AND DERIVED PARAGNEISSES

9 Siliceous biotite gneiss and protoquartzite, with minor thin horizons of mafic metavolcanic gneiss; 9a) siliceous biotite gneiss interlayered with garnet-anthophyllite gneiss

8 Conglomerate meta-sandstone

7 Meta-arkose, meta-subgreywacke, meta-siltstone and local lenses and layers of pebble conglomerate: 7a) staurolitic meta-siltstone interlayered with non-staurolitic pebble beds 7b) felsic quartz-feldspar-biotite paragneiss with local pebble beds

6 Lit-par-lit felsic to intermediate garnetiferous quartz-feldspar-biotite gneiss

5 Meta-carbonate and para-amphibolite

VOLCANIC ROCKS AND DERIVED ORTHOGNEISSES

4 Felsic quartz-feldspar-biotite gneiss, possibly metavolcanic

3 Felsic metavolcanic flows, portions strongly scoriaceous and amydaloidal; 3a) felsic metavolcanic gneiss

2 Mafic to intermediate metavolcanic breccia; 2) heterolithologic mafic to intermediate metavolcanic breccia, layered, possibly a lahar deposit; 2b) heterolithologic mafic to intermediate metavolcanic gneiss characterized by large anhedral garnet porphyroblasts

1 Mafic metavolcanic flows and derived orthogneiss, pillow structures common

Symbols

Outcrop, area of outcrop

Geological contact (defined, approximate, assumed, gradational

Limit of outcrop exposure

Bedding tops known (inclined, vertical, overturned, dip unknown)

Bedding tops unknown (inclined vertical, dip unknown)

Pillow tops known (strike approximate and dip unknown)

Schistosity and gneissocity (inclined, vertical, dip unknown)

Minor folds
Axis (horizontal, inclined, vertical)

Axial plane (horizontal, inclined, vertical)

Symmetry (symmetrical, S-assymmetrical, Z-assymmetrical)

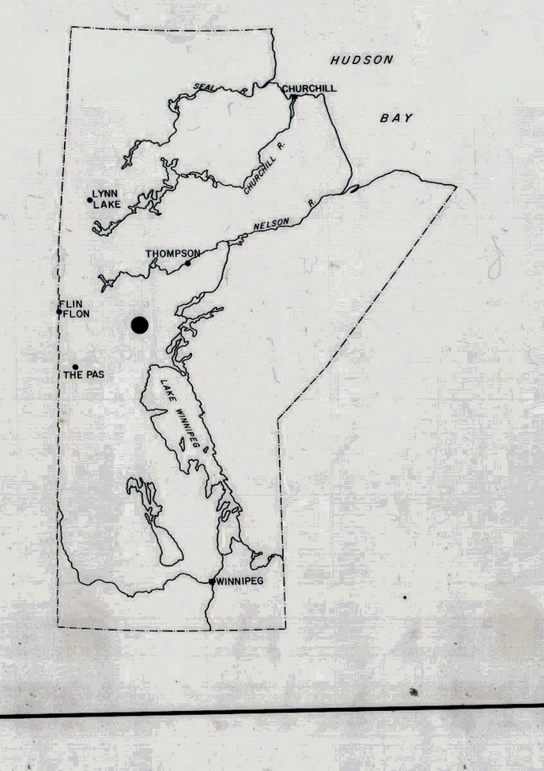
Linear structures
Deformed clast (horizontal, inclined, vertical)

Mineral lineation (horizontal, inclined, vertical)

Beach ridge, escarpment

The magnetic declination at the centre of the area is approximately 12° 29' (1969) and is decreasing by 0.7' annually

Geology by
A. H. Bailes and J. Malyon
1976



This map is a provisional summary of work carried out during the summer field season and is printed directly from the geologist's manuscript. It is not to be regarded as a final interpretation of the geology of the area.

Scale 1:50 000

KILOMETRES 1 0 1 2 3 4 KILOMETRES

MILES 1 0 1 2 3 MILES

Reference: Bailes, A. 1976: Saw Lake area (Grass River Project); Report No. 8 in Report of Field Activities, Manitoba Mineral Resources Division, Geological Survey.