



GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

PRELIMINARY SERIES



LEGEND

- CENOZOIC**
- PLEISTOCENE AND RECENT
 - 9 Drift, alluvial deposits, sand, gravel, till
- HELIKIAN
 - 8 ATHABASCA FORMATION: white or cream-coloured sandstone
- APHEBIAN AND/OR YOUNGER
 - 7 Dark grey, aphanitic, laminated mylonite
 - 6 Massive gabbro
- PROTEROZOIC**
- APHEBIAN
 - UPPER APHEBIAN
 - 5 Medium- to coarse-grained, gneissic biotite-hornblende granite
 - 4 Pink, medium-grained, gneissic granite with flaser structure
 - APHEBIAN (UNDIVIDED)
 - 3 Grey biotite gneiss, locally cordierite-bearing; 3a, calc-silicate-rich
 - 2 Pink or beige meta-arkose, commonly banded
 - ARCHEAN OR PROTEROZOIC
 - 1 Medium-grained, dark green hornblende-biotite gneiss, commonly porphyroblastic and containing interlayers of quartzo-feldspathic material

Note: Map-unit 4 is probably in large part late Archean granite sheared and recrystallized during the Hudsonian Orogeny

- Limit of drift-covered areas
- Isolated outcrop (in drift-covered areas only)
- Geological boundary (defined or approximate, assumed)
- Bedding, tops unknown (inclined)
- Foliation, schistosity, gneissosity (inclined, vertical, dip unknown)
- Fault (approximate or assumed)
- Eskers
- Sand dunes
- Mineral occurrence (ct: cordierite; fl: fluorite)

Geology by A.J. Baer, 1967; with information from W.F. Fahrig (Athabasca Formation) 1961, and B.P. Scott (Beckett Lake, east half) 1967

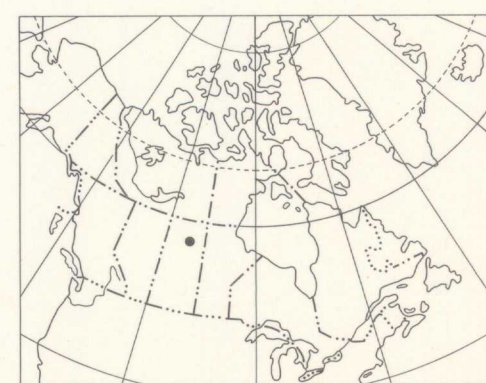
To accompany Paper 68-41 by A.J. Baer

Geological cartography by the Geological Survey of Canada, 1968

Base-map compiled by the Surveys and Mapping Branch, 1960

Magnetic declination 1968 varies from 18°16' easterly at center of east edge to 20°20' easterly at center of west edge. Mean annual change -2.9'

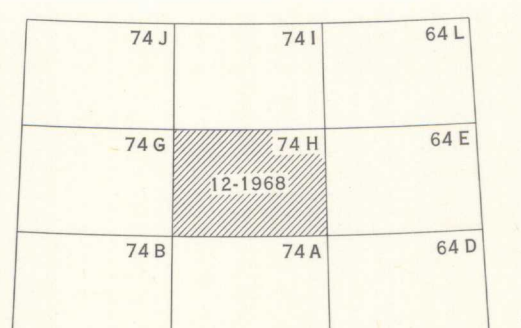
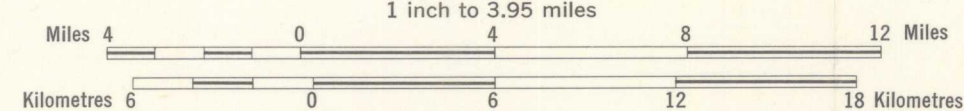
All elevations in feet above mean sea-level



INDEX MAP

MAP 12-1968
PAPER 68-41
GEOLOGY
GEIKIE RIVER
SASKATCHEWAN

Scale 1:250,000
1 inch to 3.95 miles



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE
GEIKIE RIVER
SASKATCHEWAN