



PRECAMBRIAN

LEGEND

- Quartzite, pure and impure, white, grey, green, pink and blue, including biotite sericite schist, minor milky quartz pods, feldspar augen, granite and pegmatite lenses, ferruginous and garnetiferous zones.
- Biotite schist, with abundant quartz, some sericite, including phyllonite, quartzite, minor milky quartz pods, feldspar augen, granite and pegmatite lenses, ferruginous and garnetiferous zones.
- Biotite granite C, with white to grey embayed feldspar megacrysts, one-quarter to one-half inch in size, in a foliated matrix, including minor apfite, microgranite and pegmatite.
- Gneiss biotite granite C, with white to grey feldspar augen, one-quarter to one-half inch in size, in a well-foliated to banded matrix, including microgranite bands, with minor apfite and pegmatite.
- Biotite granite D, with grey to pink to red embayed feldspar megacrysts, one and one-half to three inches in size, in a foliated to massive matrix, including minor apfite, microgranite and pegmatite.
- Gneiss biotite granite D, with grey to pink feldspar augen, one and one-half to three inches in size, in a well-foliated to banded matrix, including microgranite bands, with minor apfite and pegmatite.
- Quartz diorite, with white to pink feldspar megacrysts, one-quarter to three-quarters inch in size, abundant hornblende, minor biotite (locally biotite rich and hornblende poor), in a foliated matrix, including minor apfite, microgranite.
- Biotite granite gneiss, with some hornblende, chlorite, including minor massive granite, porphyritic granite, granulite, alaskite, lenses of biotite, quartzite, amphibolite; garnetiferous zones.
- Hornblende granite gneiss, with some biotite, chlorite, including minor massive granite, porphyritic granite, granulite and amphibolite.
- Amphibolite, including biotite amphibolite, hornblende; banded to massive.
- Biotite granite, with white, to pink to red feldspar, minor sericite, including leucocratic phases; massive. Muscovite granite (M), with abundant white to pink feldspar, minor biotite; massive. Pluton with abundant feldspar megacrysts (F), one-quarter to one-third inch in size. Hornblende bearing phases (H).
- Gneiss pegmatite, with white, to pink to red feldspars, sparse biotite and/or chlorite; massive. Muscovite pegmatite (M), with abundant white to pink feldspars, quartz, massive.
- Leucocratic granite, with pink to red embayed feldspars, coarse-grained; massive, locally foliated, including minor microgranite and pegmatite. Sericite bearing phases (S).
- Sheared leucocratic granite, with white to pink feldspars; medium to fine grain, typically sheared, minor biotite, muscovite, sericite.
- Basic dyke, massive, locally sheared with chlorite.

*Note: Rock units are not arranged chronologically

- Geological boundary (defined, approximate, assumed)
- Geological boundary, gradational
- Schistosity, gneissosity, foliation (defined, assumed)
- Schistosity, gneissosity, foliation (dip-sloped, vertical, horizontal)
- Extreme contortion (structural trend)
- Tight folds (structural trend)
- Fault (defined, approximate, assumed)
- Shear, shear zone
- Breccia
- Mylonite
- Concretion
- Joint
- Sample location
- Glacial striae (direction of ice movement known)
- Radioactivity
- Cave
- Chlorite, abundant

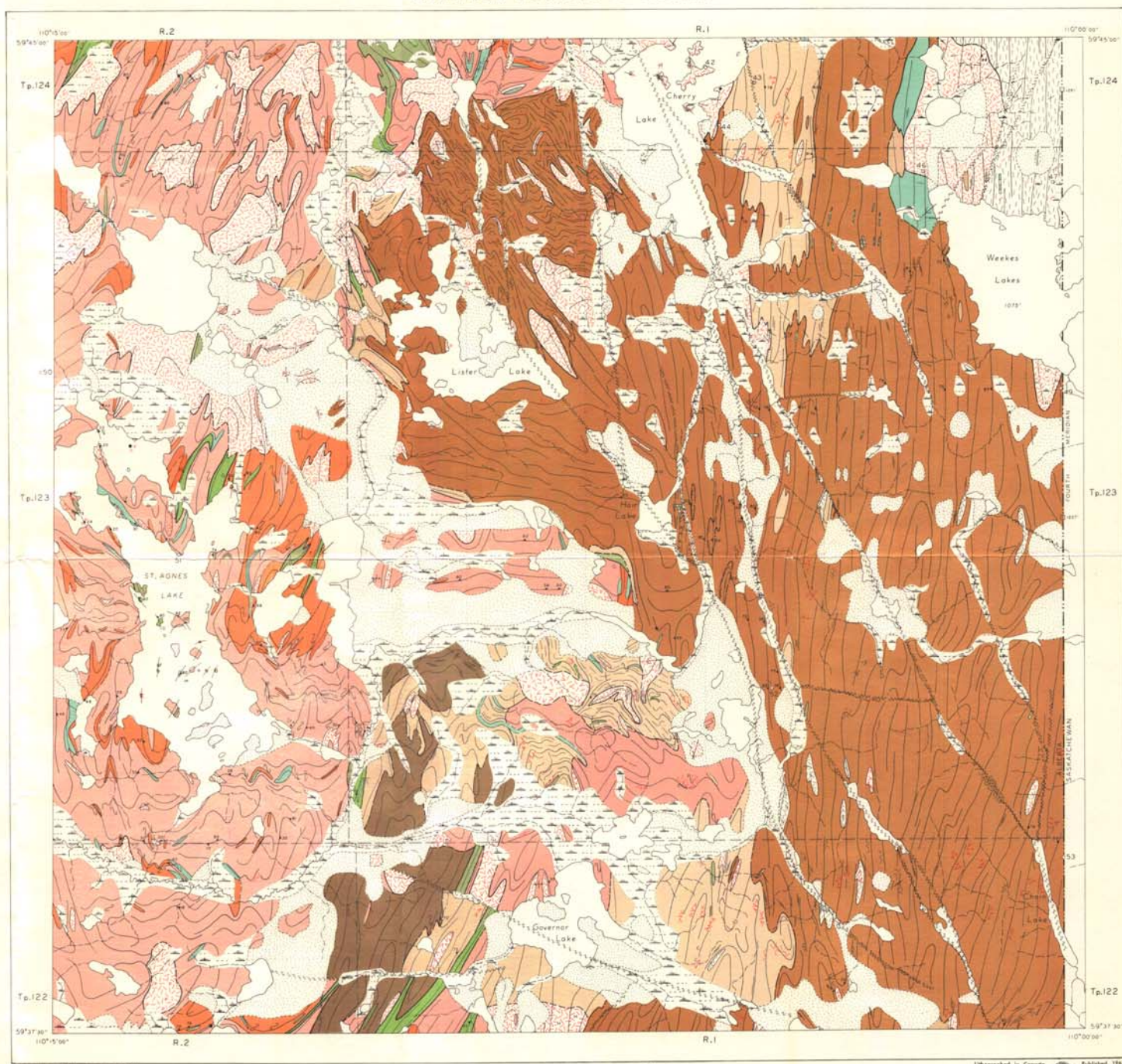
Geology by John D. Godfrey and E. W. Peckert, 1958

- Drainage (permanent, intermittent)
- Muskeg
- Sand-covered area
- Spot elevation, height in feet above mean sea-level
- Provincial boundary
- Township boundary
- Section line

Base map compiled from planimetric sheet 74 NE, quarter, published by Government of Alberta, Department of Lands and Forests, Edmonton.

All photographs covering this area are obtainable from the Technical Division, Department of Lands and Forests, Government of Alberta, Edmonton, and the National Air Photographic Library, Topographical Survey, Ottawa.

Approximate magnetic declination 25° 55' East in 1962, decreasing 6' annually.



Map in accompany Preliminary Report 421

MAP 62-1A *Sheet #3*
ST. AGNES LAKE
 WEST OF FOURTH MERIDIAN



Lithographed in Canada Published 1962