



LEGEND

- GRANITIC ROCKS**
- D** Coarse-grained pink and grey biotite-hornblende syenite and/or monzonite. Related dykes of porphyritic trachyte, trachyandesite, latite and andesite.
 - C** Dykes and stocks of coarse biotite-hornblende diorite, quartz diorite, minor amphibolite and pyroxenite.
 - B** Medium-grained, slightly porphyritic biotite quartz monzonite, minor biotite-hornblende quartz monzonite and leucogranite.
 - A** Porphyritic biotite-hornblende granodiorite, minor quartz monzonite.
 - 1** Porphyritic biotite-hornblende and hornblende leucogranodiorite with megacrysts of pink and grey potash feldspar
 - 2** Biotite-hornblende and hornblende-biotite mesocratic granodiorite

SEDIMENTARY AND VOLCANIC ROCKS WEST OF GRANBY RIVER FAULT
N.B. Unit numbers correspond with those of Greenwood E 1/2 area, Little, H.W. and Thorpe, R.I., GSC Paper 65-1, PP. 56-60

- GENOZOIC**
- TERTIARY**
EOCENE OR OLIGOCENE
- 17** Dark purplish-brown and purplish-green porphyritic augite-plagioclase andesite. Quartz-feldspar porphyry south of Toronto Creek. (Daly's Midway Group)
- JURASSIC?**
- 11** Flow breccia and massive greenstone, in part intrusive; 11a, interbedded conglomerate
- TRIASSIC**
MIDDLE TRIASSIC
- 9** Dark- and light-grey bedded limestone, commonly with chert pebbles and nodules; minor massive grey limestone and limestone breccia
 - 8** RAWHIDE FORMATION: grey siltstone and silty sandstone
- MIDDLE AND (?) LOWER TRIASSIC
- 7** Sharstone conglomerate with abundant chert fragments, minor graded-bedded green siltstone, and limestone; some skarn
- PERMIAN AND/OR EARLIER**
- 6** KNOB HILL FORMATION: massive chert and greenstone; locally minor limestone with thin chert interbeds, and rusty argillite. 6a, mainly chert; 6b, mainly greenstone
 - 4** Amphibolite breccia
 - 3** Black to grey bedded argillite and siltstone; minor chert and calcareous shale

- STRUCTURAL UNITS OF THE METAMORPHIC COMPLEX**
- X** Crushed and mylonitized biotite leuco-quartz monzonite, and biotite-hornblende leucogranodiorite
 - IX** Biotite-hornblende granodiorite gneiss
 - VIII** Clinopyroxene-hornblende leucosyenite, locally grading into leucogranite
 - VII** Biotite leucogranodiorite gneiss, commonly garnetiferous
 - VI** Ortho-amphibolite gneiss
 - V** Fine-grained hornblende schist, and amphibolite; minor interlayered fine-grained biotite-garnet-quartz schist and staurolite-garnet-quartz schist
 - IV** Amphibolite gneiss and schist with interlayered marble and/or calc-silicate, biotite-hornblende schist tremolite schist, and graphitic calcareous schist
 - a** Marble and/or calc-silicate
 - b** Biotite schist and calcareous schist
 - III** Mainly coarse-grained garnet-biotite schist, sillimanite locally abundant; interlayered pegmatite, marble and/or calc-silicate, quartzite, and amphibolite
 - a** Coarse-grained sillimanite-garnet-biotite schist with more than 30% pegmatoid material
 - b** Reddish to grey massive quartzite, minor reddish micaceous quartzite
 - c** Marble and/or calc-silicate
 - d** Various types of biotite schist and gneiss with more than 25% interlayered pegmatoid material and leucogranite, and pyroxene-biotite schist and gneiss; minor interlayered calc-silicate, marble and quartzite (all boundaries are arbitrary)
 - II** Reddish to white, coarse-grained, thick-layered quartzite with thin sillimanite-rich seams, and/or minor sillimanite-biotite paragneiss
 - a** Marble and/or calc-silicate with minor pegmatite
 - I** Mainly sillimanite-biotite paragneiss with minor biotite-garnet paragneiss and/or schist, calc-silicate and/or marble, amphibolite gneiss, quartzite, and interlayered pegmatite and calcareous biotite-schist
 - a** Amphibolite gneiss
 - b** Amphibolite gneiss
 - c** Diopside-hornblende-feldspar-quartz gneiss
 - d** Sillimanite- and/or biotite-paragneiss with more than 25% interlayered pegmatite (all boundaries are arbitrary)

Geological contact
Height of land

Geology by V.A. Preto, 1965, 1966

From G.S.C. Paper 69-22

Base-map from British Columbia Forestry Map F82 E/W at the scale of 1 inch to 1/2 mile

Samples collected by S.B. Ballantyne and K. Bottrill

Stream water sample number177
Rock sample locationx208

SAMPLE NUMBERS AND LOCATIONS FOR STREAM WATERS
GEOCHEMICAL ORIENTATION SURVEYS FOR URANIUM IN SOUTHERN BRITISH COLUMBIA, 1975

By S.B. Ballantyne
Geological Survey of Canada

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NORTH OF GRAND FORKS
MAP C III