



Caribou

Order does not reflect age

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**SURFICIAL DEPOSITS**



**Alluvium and colluvium**  
Stream deposits, talus, and soil/fluction debris



**Glacial materials**  
Includes high terrace gravels and valley till

**INTRUSIVE ROCKS**



**Intrusive breccia**  
Altered fragments of country rock in a matrix of undifferentiated monzonite porphyry



**Bostonite group**  
Bostonite porphyry; further division of group impossible owing to hydrothermal alteration



**Leucocratic granodiorite group**  
Leucocratic granodiorite, leucocratic granodiorite porphyry, granite porphyry, alkali, and fine-grained rhyodacite, rhyodacite porphyry, and quartz rhyodacite porphyry



**Diorite group**  
Biotite-hornblende-pyroxene diorite, diorite porphyry, and fine-grained andesite porphyry



**Quartz diorite group**  
Biotite-hornblende-quartz diorite, biotite-pyroxene-quartz diorite, hornblende-bearing quartz diorite porphyry, and fine-grained dacite porphyry



**Monzonite group**  
Hornblende-pyroxene monzonite, hornblende-pyroxene monzonite porphyry, and biotite-hornblende-pyroxene monzonite



**Diabase, gabbro, lamprophyre, and pyroxenite**  
Pyroxenite is commonly associated with biotite hornblende-pyroxene diorite in Caribou stock



**Quartz monzonite group**  
Quartz monzonite, quartz monzonite porphyry, biotite-hornblende-pyroxene quartz monzonite, biotite-hornblende-quartz monzonite, hornblende-pyroxene-quartz monzonite, and biotite-quartz monzonite porphyry. The age of the quartz monzonite in the Bryan Mountain stock is 51 m.y. according to S. R. Hart in his 1961 report in the *Journal of Geology*, v. 72, p. 493-525



**Latite group**  
Hornblende-pyroxene latite porphyry, biotite-hornblende latite porphyry, quartz latite porphyry, hornblende-quartz latite porphyry, and plagioclase latite porphyry



**E X P L A**

Younger Precambrian

QUATERNARY

Older Precambrian

TERTIARY

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**Biotite-muscovite quartz monzonite**  
Pinkish-gray to light-tan fine- to medium-grained equigranular quartz monzonite, composed of microcline, oligoclase, quartz, and subordinate biotite and muscovite. Possibly Silver Plume Granite



**Hornblende diorite and hornblende**  
Black or mottled black and white medium- to coarse-grained massive to well-foliated intrusive rocks. Contains small local bodies of pyroxenite, albite, quartz monzonite, granodiorite and associated rocks, and pegmatite



**Quartz monzonite and associated rocks**  
qm, gray, pinkish-gray weathering, weakly to strongly foliated rock consisting mainly of quartz, potassium feldspar, plagioclase, biotite, and subordinate amounts of muscovite. Fine- and medium-grained facies commonly pegmatitic and aplitic  
qme, pegmatite related to quartz monzonite



**Gabbro and related rocks**  
Dark-gray or brownish-gray medium- to coarse-grained massive equigranular intrusive rocks ranging from melagabbro to quartz diorite. Contains abundant pegmatite



**Boulder Creek Granodiorite**  
Gray fine- to medium-grained intrusive rocks. Consists mainly of quartz, potassium feldspar, plagioclase, biotite, and locally hornblende. Contains abundant pegmatite. Dominantly foliated, but interior parts of larger bodies are nearly massive

**METASEDIMENTARY AND METAVOLCANIC(?) ROCKS**



**Biotite gneiss**  
gnb, dominantly sillimanitic biotite-quartz gneiss, interlayered with biotite-quartz-plagioclase gneiss, and biotite-quartz gneiss  
gnbc, garnet- and cordierite-bearing facies of sillimanitic biotite-quartz gneiss; grades into sillimanitic biotite-quartz gneiss



**Calc-silicate gneiss**  
Green, brown, and white fine- to medium-grained layered rocks of variable composition. Consists mainly of clinopyroxene, epidote, garnet, feldspar, quartz, soapstone, and amphibole; locally interlayered with amphibolite



**Hornblende gneiss**  
Predominantly amphibolite interbedded with biotite-quartz-sillimanitic gneiss, microcline gneiss, locally calc-silicate gneiss and cordierite amphibole gneiss. The amphibolite is dark-gray to black fine- to medium-grained well-foliated rock consisting dominantly of hornblende and plagioclase and subordinate amounts of pyroxene, biotite, and quartz



**Quartzite**  
White, gray, and black fine- to medium-grained foliated impure quartzitic rocks



**Microcline gneiss**  
Light-gray or yellowish-gray fine- to medium-grained microcline-quartz-plagioclase-biotite gneiss; generally has a well-defined layering; granitic in appearance. Locally includes discontinuous layers of amphibolite or biotite-quartz plagioclase gneiss