Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada

GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA

LEGEND — Nelson (East Half)

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

QD — *Drift covered; till, alluvium, colluvium*

EOCENE(?)

EM — *McGREGOR INTRUSIONS*
syenite; monzonite; shonkinite

MESOZOIC

CRETACEOUS

KWC5 — *WHITE CREEK BATHOLITH*
Biotite monzogranite

KWC4 — *Biotite - muscovite leucomonzogranite*

KWC3 — *Biotite monzogranite with magacrysts of potash feldspar*

KWC2 — *Hornblende granodiorite*

KWC1 — *Biotite - epidote granodiorite*

CRETACEOUS AND JURASSIC
BAYONNE GRANITIC SUITE

KBMS — *MOUNT SKELLY PLUTON*
Biotite (hornblende) monzogranite with megacrysts of potash feldspar

KBMC — *MIDGE CREEK STOCK*
Biotite-muscovite-epidote leucogranodiorite

KBHC — *HEATHER CREEK PLUTON*
Biotite-muscovite leucogranodiorite; pregmatite

KBDP — *DREWRY POINT INTRUSION*
Leucocratic biotite-epidote granodiorite; garnet bearing aplite and pegmatite

KBSM — *STEEPLE MOUNTAIN INTRUSION*
Biotite - muscovite leucomonzogranite, granodiorite and tonalite, commonly foliated; pegmatite and aplite **KBSMg** *- biotite-muscovite leucotonalite gneiss*

KBSC — *SHAW CREEK INTRUSION*
Biotite leucogranodiorite with megacrysts of potash feldspar locally

JBWS — *WALL STOCK*
Biotite - hornblende - epidote granodiorite

JBMS — *MINE STOCK*
Biotite - hornblende - epidote ganodiorite

JURASSIC(?)
NELSON GRANITIC SUITE

JNP — *PROCTOR INTRUSIONS*
Foliated hornblende leucogranodiorite and biotite epidote leucomonzogranite

JNd — *Hornblendite, hornblende diorite*

JNgd — *Biotite (hornblende) granodiorite, with megacrysts of potash feldspar*

JNB — *MOUNT BALDY PLUTON*
Granodiorite, foliated with many inclusions of country rock; common potash feldspar megacrysts; many inclusions of country rocks

JURASSIC(?)

Jub — *Ultrabasic, serpentinized peridotite*

CRETACEOUS

KFC — *FRY CREEK BATHOLITH*
Leucomonzogranite; biotite monzogranite; biotite-muscovite monzogranite in westernmost exposures

KCB — *CRAWFORD BAY STOCK*
Biotite monzogranite, medium to coarse grained, with trace muscovite

KS — *SHORELINE INTRUSIONS*
Biotite - muscovite granite and pegmatite, foliated in some localities; /// many inclusions of country rocks

KHL — *HALL LAKE STOCK*
Biotite monzogranite

KAC — *ANGUS CREEK INTRUSIONS*
Biotite monzogranite

CRETACEOUS

KCM — *CONTINENTAL MOUNTAIN PLUTON*
Tonalite

KCC — *CORN CREEK INTRUSIONS*
Foliated biotite-muscovite granite and pegmatite

KSCC — *SELKIRK CREST COMPLEX*
Porphyroclastic gneissic granodiorite; veins and layers of gneissic biotite granite; some muscovite biotite monzogranite

SELKIRK MOUNTAINS, WEST OF UPPER KOOTENAY LAKE
TRIASSIC

SLOCAN GROUP

TRS — *Grey argillite and phyllite, light grey to black limestone*

PERMIAN

PM — *MARTEN CONGLOMERATE: greenstone conglomerate*

KASLO GROUP

PK — *Greenstone, Amphibolite*
PKd *- hornblende diorite and metadiorite, feeder dykes to Kaslo greenstone*
PKub *- serpentinite*

MISSISSIPPIAN AND PERMIAN
UPPER MISSISSIPPIAN TO LOWER PERMIAN
MILFORD GROUP

MPM — *Siliceous argillite and phyllite, grey limestone; chert*

CAMBRIAN TO DEVONIAN
LARDEAU GROUP

PB — *BROADVIEW FORMATION*
Grey mica schist, quartz grit, quartzite and pebble conglomerate

PJ — *JOWETT FORMATION*
Basaltic greenstone

PALEOZOIC

CAMBRIAN TO DEVONIAN
LARDEAU GROUP

PI — *INDEX FORMATION: undivided*

PI3 — *Biotite-quartz-feldspar (garnet) gneiss; amphibolite*

PI2 — *Marble and calc-silicate gneiss; amphibolite; micaceous quartzite;* **PI2a** *calcite marble*

PI1 — *Hornblende gneiss, amphibolite; cc - calcite marble* **PI1a** *biotite-muscovite schist and gneiss*

CAMBRIAN
LOWER CAMBRIAN

ЄBM — *BADSHOT-MOHICAN FORMATION: calcite marble, dolomite; calcareous schist, quartzite*

LOWER CAMBRIAN AND HADRYNIAN(?)

ЄH — *HAMILL GROUP: undivided*

ЄH4 — *Dark quartzite; quartz-rich schist*

ЄH3 — *White quartzite*

ЄH2 — *Muscovite-biotite-chlorite schist, quartzite, siltstone* **ЄH2a** *w epidote-chlorite-amphibolite gneiss (greenstone?)* **ЄH2b** *marble*

ЄH1 — *Massive white quartzite; micaceous quartzite*

ЄTS — *THREE SISTERS FORMATION*
Feldspathic grit and quartzite; quartz-pebble conglomerate. **ЄTSc** *conglomerate member*

WEST OF LOWER KOOTENAY LAKE AND KOOTENAY RIVER
CAMBRIAN
LOWER CAMBRIAN
HAMILL GROUP

ЄR — *RENO FORMATION*
Argillaceous quartzite, mica schist

ЄQR2 — *QUARTZITE RANGE FORMATION*
2. Orthoquartzite and micaceous quartzite; minor argillite

ЄQR1 — *1. Massive to cross-bedded orthoquartzite*

HADRYNIAN
HORSETHIEF CREEK GROUP

HM — *MONK FORMATION*
Grey phyllite; black graphitic phyllite
HMl *limestone member*
HMc *conglomerate member*

EASTERN PURCELL MOUNTAINS, SOUTHEASTERN PURCELL ANTICLINORIUM

CAMBRIAN
LOWER CAMBRIAN

ЄE — *EAGER FORMATION: grey argillite, silty argillite, siltstone; buff weathering silty limestone; rare bioclastic beds*

ЄC — *CRANBROOK FORMATION: siliceous white quartzite; gritty quartzite, pebble and cobble conglomerate*

LOWER CAMBRIAN(?)

ЄC(?) — *CRANBROOK FORMATION (?): conglomerate, angular to rounded clasts to cobble size*

PROTEROZOIC

HADRYNIAN
WINDERMERE SUPERGROUP (**HT - HTS**)
HORSETHIEF CREEK GROUP

HH3 — *Phyllite and schist; interbedded quartzite, pebble and cobble conglomerate; grey limestone*

HH3l — *Grey limestone and marble; dolomite*

HH3p — *Pebble conglomerate, quartz, quartzite and feldspar clasts*

HH3c — *Cobble conglomerate*

HH2 — *Siliceous, massive white quartzite; pebbly quartzite*
HH2a *- cobble and boulder conglomerate*

HH1 — *Phyllite; siltite; carbonate*

HIV — *IRENE VOLCANIC FORMATION: massive to schistose greenstone, mafic tuff; phyllite. xxxxx dolomite*

HT — *TOBY FORMATION: polymict conglomerate; pebble and cobble conglomerate; quartzite and grit; phyllite*

HELIKIAN

HHC — *HELLROARING CREEK INTRUSIONS*
Granite, pegmatite

PURCELL SUPERGROUP (**HA - HMN**)

HMN — *MOUNT NELSON FORMATION: undivided*

HMN4 — *Dolomite, white to dark grey, buff to brown weathering*

HMN3 — *Black argillite, grey siltstone, thinly interbedded*

HMN2 — *Dolomite, dolomitic siltstone, argillite*

HMN1 — *Quartzite, thick bedded, white to green*

HLF — *LA FRANCE CREEK GROUP: undivided*

HLF2 — *UPPER: interbedded grey siltite and black argillite, thin to thick bedded*

HLF1 — *LOWER: thinly interbedded black argillite and grey siltite*

HM — *MOYIE INTRUSIONS: meta-diorite, meta-quartz diorite*

HCC — *COPPERY CREEK GROUP: undivided*

HCC3 — *UPPER: dolomite, thin to thick bedded, white to grey, with interbedded white quartzite*

HCC2 — *MIDDLE: thinly laminated black argillite and grey siltstone*

HCC1 — *LOWER: dolomite, dolomitic siltstone, green and black argillite; light grey siltite and quartzite*

HC — *CRESTON GROUP: undivided*

HC3 — *UPPER: light and dark green argillite and siltite: deep green siltite; purple argillite and siltite*

HC2 — *MIDDLE: purple lined or purple mottled grey siltite or fine quartzite; black to deep purple argillite; white medium grained quartzite*

HC1 — *LOWER: thin to thick bedded siltite; thinly interbedded argillite and siltite, characterized by wavy bedding, mud-cracks, and cut and fill features* **HC1a** *- mud-cracked member*

HA — *ALDRIDGE GROUP: undivided*

HA3 — *UPPER: rusty weathering black argillite and silty argillite, characterized by fine parallel laminae of white siltite*

HA2 — *MIDDLE: light grey weathering, grey siltite and fine quartzite in beds up to 1 m; interbeds of dark argillite and successions of thinly interbedded black argillite and grey siltstone*

HA1 — *LOWER: rusty weathering, laminated or ccross-bedded quartzite; argillite and silty argillite*

EASTERN PURCELL MOUNTAINS

HELIKIAN
PURCELL SUPERGROUP (**HK - HG**)

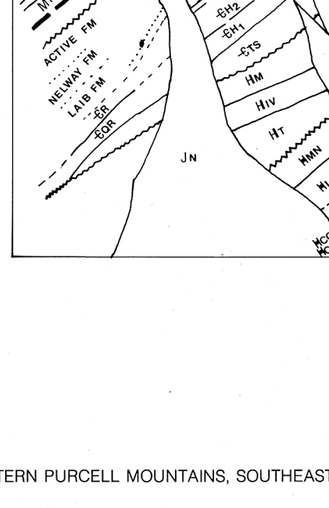
HNC — *GATEWAY FORMATION: dolomite, light buff to brown weathering, with stromatolites and oolites; green argillite; quartzite*

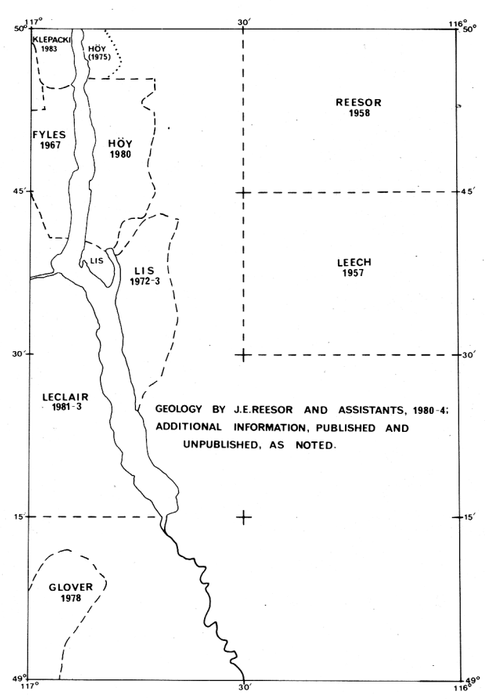
HNC — *NICOL CREEK FORMATION: volcanic extrusives; tuffs*

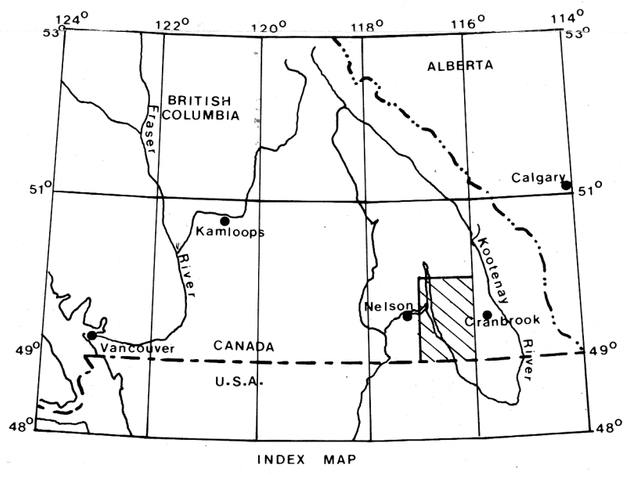
HVC — *VAN CREEK FORMATION: green interlaminated argillite and siltite*

HK — *KITCHENER FORMATION: dolomite, dolomitic siltstone green argillite, black argillite; light grey to white siltite*

Geological boundary (defined, approximate, assumed)
Bedding, tops known (horizontal, inclined, vertical, overturned)
Bedding, tops unknown (inclined)
Cleavage (inclined, vertical)
Schistosity (inclined, vertical)
Granitic rocks, primary foliation
Granitic rocks, secondary foliation
Mineral lineation
Fault (defined, approximate, assumed)
Thrust (reverse)fault (defined, approximate, assumed)
Small folds (axial plane, inclined, vertical, plunge of axis)
Anticline, Syncline (Trace of axial surface)
Antiform, Synform (Trace of axial surface)
Overturned Anticline, Syncline (Trace of axial surface)
Overturned Antiform, Synform (Trace of axial surface)







NELSON

(EAST HALF)

Scale 1:100 000 - Échelle 1/100 000

Kilometres 2 0 2 4 6 8 Kilomètres

Universal Transverse Mercator Projection
Projection transverse universelle de Mercator

© Crown copyrights reserved
© Droits de la Couronne réservés

OPEN FILE
DOSSIER PUBLIC
2721
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
OTTAWA
1993

Sheet 2 of 2

Canada

This document was produced by scanning the original publication.

Ce document est le produit d'une numérisation par balayage de la publication originale.