

Geology by J.B. Mahoney (2004), R.L. Hooper (2004), S.M. Gordiee (2004), and J.W. Haggart (2004)

Geological compilation by J.B. Mahoney, R.L. Hooper, S.M. Gordiee, and J.W. Haggart

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Contribution of Geological Survey of Canada's Beta Cross Targeted Geoscience Initiative, Coalfield Energy and Minerals Project Number Y15 and British Columbia Rocks to Riches Program, Project Number 2005-032

GSC OPEN FILE 5386
GEOLOGY
FORESIGHT MOUNTAIN
(93E/03)
BRITISH COLUMBIA
Scale 1:50 000/Echelle 1/50 000
Universal Transverse Mercator Projection
North American Datum 1983
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Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada modified by Geological Survey of Canada

Mean magnetic declination 2006, 20° 32' E, decreasing 15.0' annually. Readings vary from 20° 37' E in the northwest to 20° 26' E in the southeast corner of the map

Elevations in metres above mean sea level

Contour interval 100 feet

93 E05	93 E06	93 E07
93 E04	93 E03	93 E02
	OF5386	OF5387
93 D13	93 D14	93 D15

NATIONAL TOPOGRAHIC SYSTEM REFERENCE AND INDEX TO COORDINATE GEOLOGICAL SURVEY OF CANADA MAPS

LEGEND

----- STRATIFIED ROCKS

QUATERNARY

Qal Recent alluvium, fill

LOWER CRETACEOUS

MCNARCH ASSEMBLAGE (Kv ca. 124 Ma)

IKMv >50% volcanic rocks; amorphous olive green amygdaloidal basalt and basaltic andesite and associated breccia, tuff, and tuff breccia; locally intercalated with thinly bedded siltstone, black argillite to slate

LOWER TO MIDDLE JURASSIC

SINEMURIAN TO BATHONIAN

HAZELTON GROUP (U/Pb ca. 171-191 Ma)

Sedimentary facies

ImJhs >50% sedimentary rocks; feldspathic sandstone and siltstone; black argillite, locally with thin cross-stratified calcareous sandstone to sandy limestone containing shallow water fauna; pebbles to cobbles conglomerate, lapilli tuff and welded ash-flow tuff; lesser basaltic andesite and basalt flows and breccias; rare intraformational conglomerate within sedimentary sequences; rare pillow basalt; complexly interfingering with ImJhv

ImJhv Volcanic facies

ImJhv >50% volcanic rocks; amorphous olive green amygdaloidal basalt and basaltic andesite and associated breccia, tuff, and tuff breccia; locally intercalated with thinly bedded siltstone, black argillite to slate; complexly interfingering with ImJhs includes layered mafic complex, of distinctly layered gabbroic and clinopyroxene rich layers, lesser pyroxene-clinopyroxene cumulates, and abundant gabbro and aphanitic basalt

ImJhp Volcano-plutonic complex

ImJhp Characterized by 45-50% volcanic and volcanoclastic sedimentary rocks as large (0.5-1 km) screens within hornblende-hornblende orthoclase-bearing pyroxene diorite to quartz diorite, locally foliated, distinct variations in texture (fine to coarse grained) and composition

ImJhr Rhyolitic facies

ImJhr Light purple to red, well stratified, thin to medium bedded, locally thick bedded to massive, rhyolitic tuff breccia, lapilli tuff, ash tuff and associated volcanoclastic conglomerates, sandstone, siltstone and lesser mudstone; includes rare pillow basalt

ImJhc Chatsquot layered mafic intrusion

ImJhc Compositionally layered clinopyroxene gabbro, olivine gabbro, anorthosite and lesser magnetite-olivine websterite; compositional layers <1.0m thick and alternate between light-colored anorthosite and darker gabbro and ultramafic layers; cut by numerous andesite porphyry and rhyolite dykes with associated intrusion breccias; locally mineralized with Cu-Ni-sulfides

----- INTRUSIVE ROCKS

PALEOGENE

Eocene

Eg Light pink to light grey K-spar porphyritic megacrystic to equigranular coarse grained pink hornblende biotite to biotite granite; intrusive contacts sharp; forms prominent outcrops with distinct exfoliation planes; yields abundant white rhyolite porphyry dykes

LATE CRETACEOUS TO PALEOGENE

FOUR MILE PLUTONIC SUITE (U/Pb ca. 62-73 Ma)

LKFM Muscovite-biotite granite; coarse-grained, equigranular; muscovite 0-8%; locally contains garnet, pink orthoclase megacrysts; siltite dykes with pegmatitic segregations bearing garnet and muscovite; unfoliated except possibly at margins; forms prominent cliffs characterized by 'iron-on-skin' exfoliation joints

LATE CRETACEOUS

FOUGHER PLUTONIC SUITE (U/Pb ca. 68 Ma)

LKF Pyroxene-hornblende-biotite quartz diorite to granodiorite, medium- to coarse-grained, equigranular to locally inequigranular with potassium feldspar megacrysts; homogeneous, distinct salt-and-pepper fresh appearance with conspicuous sphere

LATE JURASSIC

STICK PASS PLUTONIC SUITE (U/Pb ca. 148-156 Ma)

LJSP Hornblende-biotite quartz monzonite to granite; medium- to coarse-grained, equigranular to inequigranular; distinctive mottled dark pink and light green appearance; abundant quartz, epidote veining

MIDDLE JURASSIC

TRAPPER PEAK PLUTON (U/Pb ca. 170 Ma)

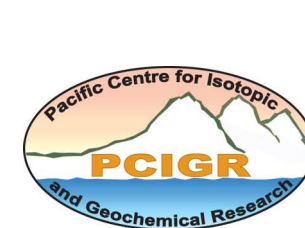
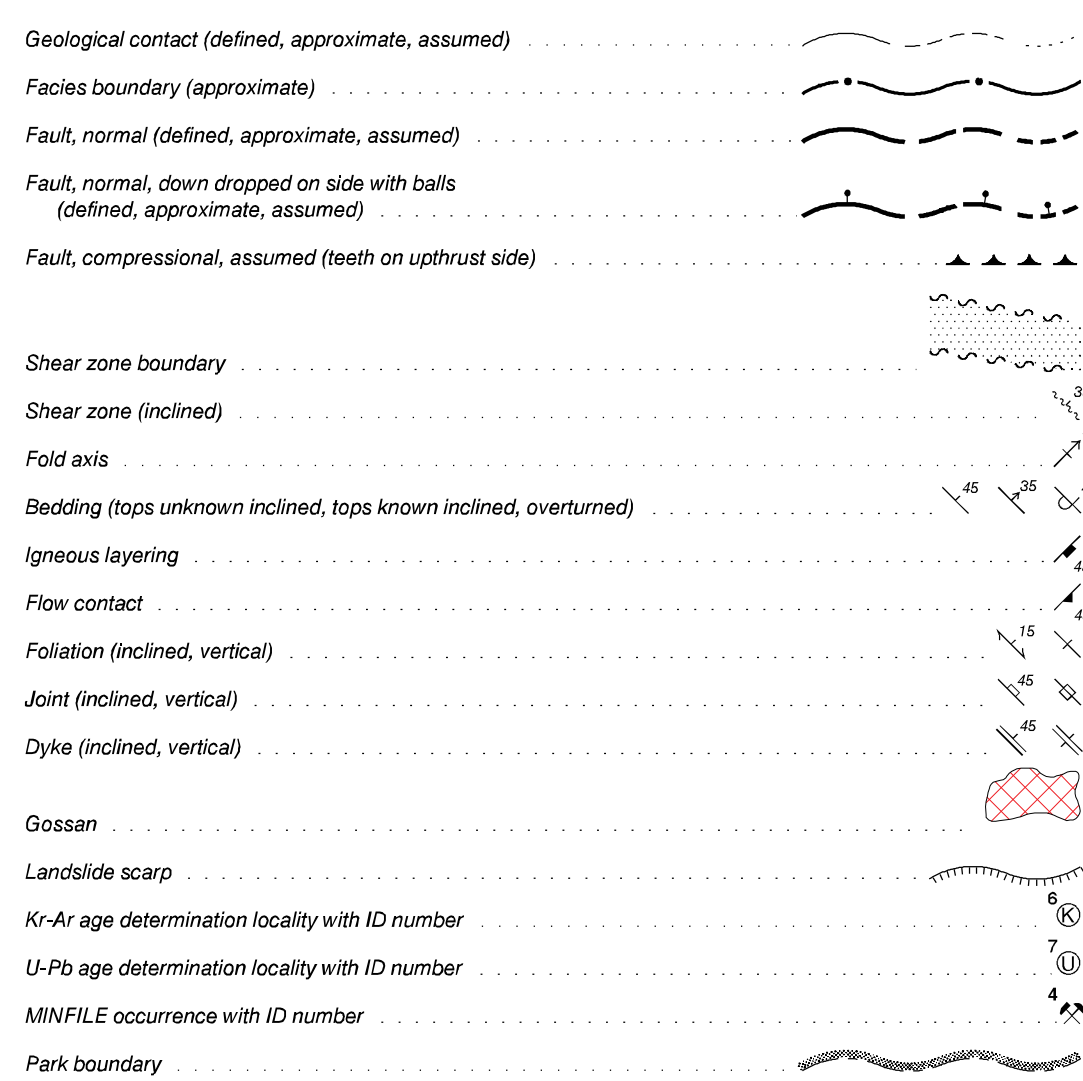
MJTP Hornblende-granite to lesser biotite-hornblende granite, medium- to coarse-grained, equigranular to inequigranular; distinct light purple to medium pink K-spar albiclasts enclose quartz, hornblende and plagioclase; plagioclase locally saussuritized to light green colour; pluton locally cut by small epidote veins and numerous hornblende-andesite, basalt, and rhyolite dykes

EARLY JURASSIC

TENAIKE PLUTONIC SUITE

JT Compositionally and texturally heterogeneous assemblage of coarse-grained pyroxene-hornblende gabbro to medium- to coarse-grained hornblende diorite to quartz diorite; lesser hornblende granodiorite; locally contains abundant mafic and ultramafic xenoliths and metaclastic screens ranging from a few centimetres to 10s of metres in length

SYMBOLS



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