

Legend

QUATERNARY AND RECENT

- Qa Alluvium, colluvium, fill
- Qb Landslide debris
- Qc Neoglaciated moraines
- Qd Rock glacier

TERTIARY PALEOCENE

- Tp PASKAPOO FORMATION: sandstone, mudstone, siltstone, conglomerate

CRETACEOUS

UPPER CRETACEOUS

- Kba SPRAY RIVER FORMATION (upper part): sandstone, mudstone, siltstone, conglomerate
- Kbb SPRAY RIVER FORMATION (lower part): sandstone, mudstone, siltstone, conglomerate
- Kbc SAINT MARY RIVER FORMATION: shale, sandstone, siltstone, coal
- Kbd BELLY RIVER FORMATION: sandstone, mudstone, siltstone, conglomerate

ALBERTA GROUP (Kba-Kbd)

- Wapiti FORMATION: shale, siltstone, minor sandstone
- Wapiti FORMATION (Highwood Sandstone Member): sandstone
- Kcr CARDIUM FORMATION: sandstone, siltstone, shale, conglomerate
- Kbk BLACKSTONE FORMATION: shale, siltstone

LOWER CRETACEOUS

- Kbl BLAIRMORE GROUP (CADOMIN, GLADSTONE, BEAVER MINES, AND MILL CREEK FORMATIONS (undivided))
- Kbm BEAVER MINES AND MILL CREEK FORMATIONS: sandstone, siltstone, mudstone, conglomerate
- Kbn CADOMIN AND GLADSTONE FORMATIONS: siltstone, sandstone, conglomerate, limestone

JURASSIC AND CRETACEOUS

- Jk Kootenay Group: sandstone, siltstone, coal, mudstone
- Jf FERRIE FORMATION: shale, minor sandstone

JURASSIC

- Jf FERRIE FORMATION: shale, minor sandstone

TRIASSIC

- Tr Spray River Group (Sulphur Mountain and Whitehorse Formations (undivided))
- Tr Whitehorse Formation: dolomite, siltstone, sandstone, mudstone
- Tr Sulphur Mountain Formation: siltstone, shale

CARBONIFEROUS AND PERMIAN

- Cpm Rocky Mountain Supergroup: quartz sandstone, dolomite, siltstone

CARBONIFEROUS

LOWER CARBONIFEROUS

- Cm Mount Head and Etherington Formations (undivided)
- Ce Etherington Formation: limestone, dolomite, shale, dolomitic sandstone
- Cm Mount Head Formation (undivided)
- Cm Mount Head Formation (upper part): argillaceous limestone, shale, limestone
- Cm Mount Head (lower part): limestone, siltstone, silty limestone
- Cm Livingstone and Mount Head Formations: undivided
- Cm Livingstone Formation: limestone, dolomite
- Cm Shunda Formation: limestone, argillaceous limestone, dolomite
- Cm Pecksok Formation: limestone
- Cm Banff Formation (upper part, eastern facies): limestone, dolomite

DEVONIAN AND CARBONIFEROUS

UPPER DEVONIAN AND LOWER CARBONIFEROUS

- Dce Exshaw and Banff Formations (western facies): silty limestone, calc. siltstone, shale, siltstone
- Dco Exshaw and Banff Formations (lower part, western facies): chert, shale, argillaceous carbonates, siltstone

UPPER DEVONIAN

- Dpa Palliser Formation: limestone
- Dpd Palliser Formation: in fault duplexes
- Dps Southesk and Alexo Formations (undivided)
- Dca Cairn, Southesk and Alexo Formations (undivided)
- Dax Alexo Formation: dolomite, dolomitic siltstone, shale
- Dsa Sassenach Formation: sandstone, shale
- Dfm Fairbairn Group (Dax-Dsa)
- Dm Pedrix and Mount Hawk Formations: calcareous shale, argillaceous limestone, shale
- Dso Southern Formations: dolomite
- Dca Cairn Formation: dolomite, minor argillaceous limestone, locally includes thin lenses of Yahiatina Formation at base
- Dya Yahiatina Formation: dolomite, mudstone, sandstone

MIDDLE AND UPPER DEVONIAN

- Db Basal Devonian Unit: dolomite, shale, sandstone

ORDOVICIAN AND SILURIAN

- Obe Beaverfoot Formation: dolomite

CAMBRIAN

MIDDLE CAMBRIAN

- Cm Anchoire Formation: shale, silty limestone, dolomite
- Cm Pika and Eldon Formations (undivided)
- Cm Pika Formation: limestone, dolomite
- Cm Eldon Formation: limestone, dolomite
- Cm Cathedral and Stephen Formations (undivided)
- Cm Stephen Formation: shale, limestone
- Cm Cathedral Formation: limestone, dolomite

Geological boundary (defined, assumed)

Fault, normal (defined)

Fault, reverse or thrust (defined, assumed)

Fault, transverse (defined)

Anticline, upright (defined)

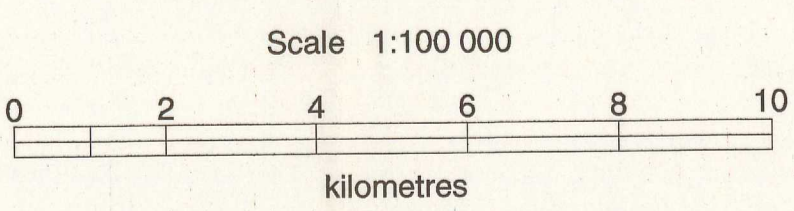
Anticline, syncline, overturned

Monocline

Change of nomenclature

GEOLOGY OF ROCKY MOUNTAIN FOOTHILLS AND FRONT RANGES IN KANANASKIS COUNTRY, SOUTHWEST OF CALGARY, ALBERTA

Geological Compilation by M.E. McMechan, 1993
 Computer Cartography by M.J. Deuling,
 M.E. McMechan and A.V. Okulitch, 1993
 Geological Survey of Canada, Calgary



Sources of Information

- McMechan, M.E. 1989. GSC Open file reports 2057, 2107 and unpublished mapping based on Herbison in 1960, 1988 and 1990.
- Shell Canada Limited, unpublished compilation maps of 82J10, 82J15, 82J14, 82C20.
- Hepp, C.O. 1946. GSC Map 827A.
- Reisch, H.H. 1943. GSC Memoir 258.
- Olierehshaw, N.C. 1978. GSC Map 1429A.
- Olierehshaw, N.C. 1978. GSC Map 1429A.
- Phon, P.A. and Murray, E.W. 1970. GSC Map 1255A.
- Phon, P.A. and Murray, E.W. 1970. GSC Map 1255A.
- Leach, G.S. Unpublished field map for 82J14.
- Brown, S.P. Figure 29 in Spang et al. 1981. GAC Fieldguides Calgary '81 Annual Meeting, p.116.
- Riggert, U.L. 1983. Unpublished M.Sc. Thesis, University of Calgary.
- Mauril, L.E. 1987. Unpublished Ph.D. Thesis, University of Calgary.
- Beauregard, H.L. 1988. Unpublished Ph.D. Thesis, Queen's University, Kingston, Ontario.
- Olierehshaw, N.C. 1975. Geological compilation Rocky Mountain Foothills and Front Ranges Calgary Region. GSP-CSEI exploration notes 75, Guidebook, Plate 1.
- Stockmal, G.S. 1978. Unpublished M.Sc. Thesis, University of Calgary.
- Sanderson, D.A. 1987. Unpublished M.Sc. Thesis, University of Calgary.
- Mott, J.A. 1989. Unpublished Ph.D. Thesis, Queen's University, Kingston, Ontario.
- Morris, R.L. and Grive, D.A. 1980. BCMEMPH, Preliminary Map 88.