



DESCRIPTIVE NOTES

The region between Oliver and Cawston, British Columbia is underlain by predominantly Mesozoic igneous and sedimentary rocks. The igneous rocks are intruded by the Cawston granite (Cg), which are intruded by the Fairview granite (Fg) and the Fairview diorite (Fd). The sedimentary rocks are the Fairview Group (Fg) and the Fairview Schist (Fsch).

STRATIGRAPHY

The Fairview Group consists of the Fairview Schist (Fsch), Fairview diorite (Fd), Fairview granite (Fg), and Fairview quartzite (Fq). The Fairview Schist is a mafic schist, the Fairview diorite is a diorite, the Fairview granite is a granite, and the Fairview quartzite is a quartzite. The Fairview Group is intruded by the Cawston granite (Cg) and the Fairview granite (Fg).

STRUCTURAL GEOLOGY

The Fairview Group is deformed by a series of faults and folds. The most important faults are the Fairview Fault (Ff) and the Fairview Schist Fault (Fschf). The Fairview Fault is a normal fault, and the Fairview Schist Fault is a thrust fault. The Fairview Group is also deformed by a series of folds, including the Fairview Schist Fold (Fschf) and the Fairview diorite Fold (Fdf).

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- LEGEND**
- MIDDLE EOCENE**
 PORPHYRYTIC MAFIC DYKES (ca. 50 Ma): Porphyrytic mafic dykes include quartz, clinopyroxene, hornblende, and ilmenite, some spargite dykes, unfoliated.
- JURASSIC**
 QUARTZ VEINS: Fine to medium grained, generally massive, jointed, some ribboning, sphalerite-pyrite-sulphide veins with relative to JQqm and Jfgd unstratified.
 OLIVER DIORITE (ca. 155 Ma): Complex, multi-phase intrusion of oligoclase-quartzite dykes with hornblende, biotite, quartz, and ilmenite. Hornblende is biotite-hornblende diorite, garnet-muscovite granite; undeformed locally foliated and deformed.
- AGMATITE**
 Shale facies of JQqm.
- GRANITIC STOCKS AND DYKES:** Aplite, granite, granodiorite; age relative to JQqm and Jfgd uncertain.
- DIORITIC STOCKS AND DYKES:** Biotite diorite, hornblende diorite, minor mafic rocks; age relative to JQqm and Jfgd uncertain.
- FAIRVIEW GRANODIORITE:** Weakly to distinctly foliated hornblende-bearing biotite granodiorite; minor granite and diorite; chlorite alteration common.
- PRE-EARLY JURASSIC**
 DACITIC DYKES: Porphyrytic oligoclase biotite diorite and plagioclase; weakly to distinctly foliated; low grade metamorphic overprint; 50 m thick. Lack foliation in western part of map area (possibly of younger age).
- PRE-JURASSIC**
 KOBANU GROUP (facing direction indeterminate)
 MAFIC SCHIST UNIT 1: Alternating mafic layers (actinolite, biotite, epidote, minor chlorite, quartz, chlorite) and quartzite or chlorite-rich layers (actinolite, biotite, epidote, sphene, calcite, white mica) (inter-); locally granitiferous, some carbonaceous sections (biotite, tremolite, epidote, feldspar, quartz).
 Banded quartzite: Layered, foliated quartzite with thin, biotite-rich laminae (inter-).
 MASSIVE QUARTZITE: Biotite of quartzite, pure quartzite.
 MAFIC SCHIST: Biotite of mafic schist without distinct compositional layering.
 CALCITE MARBLE: Boudins of massive or foliated pure, coarse-grained calcite marble to 20 m; minor calcite-tremolite marble.
 MAFIC METAVOLCANIC ROCKS: Biotite of mafic schist with biotite-rich laminae; interbedded sections of mafic schist and quartzite.
 MAFIC SCHIST UNIT 2: Lithologic similar to KM1.
 Banded quartzite: Layered, foliated quartzite with thin, biotite-rich laminae. Black, foliated biotite-quartzite.
 MAFIC SCHIST: Biotite of mafic schist without distinct compositional layering.
 CALCITE MARBLE: Boudins of massive or foliated pure, coarse-grained calcite marble to 20 m; minor calcite-tremolite marble.
 MAFIC METAVOLCANIC ROCKS: Biotite of mafic schist with biotite-rich laminae; interbedded sections of mafic schist and quartzite.
 QUARTZITE UNIT 1: Quartzite layers (1-2 m) separated by biotite-rich layers (inter-); (inter-); biotite; some biotite-rich sections.
 MAFIC SCHIST: Biotite of mafic schist without distinct compositional layering.

- SYMBOLS**
- Geological contact (defined, approximate, assumed)
 - Outcrop
 - Tace of axial surface (phase of deformation indicated by number of tick marks)
 - Antiform (defined, approximate)
 - Antiform overturned
 - Synform
 - Schistosity (phase 1) or compositional layering
 - Axial planes of minor folds (phase 2 and phase 1) with fold axis and vergence indicated
 - Fault (defined, approximate)
 - Mine (gold: active, abandoned)
 - Adit
 - Rock dump, tailings
 - Major road (2WD)
 - Minor road (4WD)
 - Blocked road

