

Aylwin

800640

General Geology

The prop. lies within a sed. - volcanic assemblage
of Triassic - Slocan Series of rocks which forms a
roof pendant. - 3 miles x $\frac{1}{2}$ mi. within Nelson
Batholith - this pendant cut by elongate
plutons of acidic intrusive probably of Tertiary age.

Northern ^{western} Margin in Nelson Batholith

Slocan Area lies within core of Rootenay Arc -
composed of rocks of variable met. grade and
of varying age from Woodroverian ~~and~~ to Triassic

~~The area is dominated~~ The Nelson batholith
dominates the geological picture of this area

Lower limit of Nelson plutonic is pos. Mid Jurassic
17 million years

Youngest - sed. rocks of Slocan Gp found in
the large Slocan syncline. The Slocan Gp lies in
contact with Paleozoic rocks on east near
Rootenay Lake and in the west are near
the Vallhalla Gneiss.

All rocks in Slocan area with exception of Nelson -
strongly deformed and usually metamorphosed

All contacts tectonic - success. started in Woodroverian to
early Mesozoic

Locally oldest - augen gneiss - crushed mylonitized
and brecciated - med. to coarse leucogneiss -
outcrops along east shore of Slocan Lake -
1 mile wide band - bounded on east by crush zone
along a major vertical fault - which
separates from Nelson

Structurally underlain by Horse Thief group
meta sediments - which is stratigraphically above gneiss

Slocan - gneiss - coarse gr. + distinctly foliated

Impure arenaceous schists

Sedimentary unit - med to high met. grade
impure arenaceous schists

Hassethuff - mixture of meta sed. gneiss - leucogranite
< gneiss + pegmatite - primarily meltdants -

Rhythmic sequence - 3rd - 6th bedded graywacke, micaceous
arkose, quartzite and pelite. layers of
impure limestone - common.

Socian Cap - central part of New Denver - Kaslo area

bounded - m + s by young batholiths, - east
by Ullhalla gneiss + east by Paleozoic

finely graded - distinctly bedded seden. - shale
argillaceous, ameson, quartzite - arkose arg
graywacke -

lies unconformably upon Paleozoics
basally ~~the~~ conglomerate

Triassic??

Several ~~stratigraphic~~ ^{deformational} tectonic events, deformation polyphase
no evidence of motion along zone - recurrent
momentary zone along contact of batholith with
country rocks