

West Zone
Brucejack Lake

AGE DETERMINATION SUBMISSION FORM

GEOCHRONOLOGY

803737

GEOLOGICAL SURVEY OF CANADA

DATE: May 11/89 PROJECT OFFICER: R.V. Kirkham

DIVISION: MD FIELD PROJECT NUMBER: 611-7059

GEOCHRONOLOGY STAFF MEMBER THIS PROJECT DISCUSSED WITH: J.C. Roddick

ISOTOPE SYSTEM REQUESTED:

Rb-Sr _____ K-Ar _____ U-Pb whole rock (4 possibly Ar³⁹/40??) Pb-Pb _____ Sm-Nd _____ Other _____

MINERAL (S) (ie. zircon, w.r. etc.): muscovite

FIELD OR SAMPLE NUMBER: KQ-89-1

AMOUNT OF SAMPLE SUBMITTED: ~50g??

LOCATION: PROVINCE B.C. DISTRICT Iskut Sheet NTS 104B/B

LAT _____ N LONG _____ W or UTM 426 568mE 268 568mN

TOPOGRAPHIC LOCATION: Underground West Zone, Brucejack Lake area (1350m level?)

GEOLOGICAL INFORMATION: (Please include geological setting, rock name, type, grain size, texture, mineral composition, etc.)

This is massive, very fine-grained, pale apple green muscovite (identified by D.C. Harris) with minor disseminated pyrite and cut by pyrite veins. This is possibly a "fault rock" consisting of somewhat deformed, essentially "pure", fine-grained hydrothermal muscovite. It is related to a significant Au-Ag deposit (Brucejack West Zone).

AGE PROBLEM: (Please be specific in the objective of this study and specify accuracy required.)

This date is partly experimental to see what sort of ~~date~~^{number} such a rock yields. Other K/Ar dates of about 100 Ma have been obtained on rocks from the area and J. Mortensen has a preliminary U/Pb zircon date of 197 Ma on alkaline intrusive rocks in the area that have associated porphyry Cu (Au, Mo) mineralization.

Geochronology Section Comments: _____