



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

Parliament Building
Victoria
British Columbia
V8V 1X4

889538
Willa

April 8, 1987

Mr. Tom Schroeter
Senior Regional Geologist
Ministry of Energy, Mines
& Petroleum Resources
Suite 159 - 800 Hornby Street
Vancouver, BC
V6Z 2C5

Dear Tom,

Dates from zircons separated from pyritic feldspar porphyry (quartz latite porphyry in local terminology) from the underground decline at the Willa property, Aylwin Creek yielded an age of 194 ± 3 million years, that is a Rossland Group age. The sample was collected at station 11 in the decline about 300 metres from the portal.

From a tectonic viewpoint the samples are also interesting -- the zircons have core zones that date at 1700 ± 100 million years. These cores argue that the porphyry was either derived from 1700 million year old rocks or picked up detrital zircons of that age; the zircons do not look detrital. It seems then that this rock package was underlain by Hudsonian rocks by Early Jurassic time and the porphyry was derived by partial melting of this Precambrian basement.

More work is planned to try to lower the error range on the older number. Calculations are in progress to refine the Jurassic number, but it will not shift by more than one million years.

We are starting a project during the 1987 field season to study gold deposits in Rossland Group rocks so more data will be available in the fall and later.

Yours sincerely,

W.J. McMillan

W.J. McMillan
Manager
Mineral Deposits
and Regional Mapping
Geological Survey Branch

LOG NO:	04/14/87 VAN 4
ACTION:	
FILE NO:	WILLA

WJM/bm