

CORPORATION FALCONBRIDGE COPPER

FILE

MEMORANDUM

Rea

824599

DATE: August 1, 1985
TO: A. J. Davidson
COPIES TO: D. H. Watkins
DE FROM: I. D. Pirie
SUJET SUBJECT: Pb ISOTOPE STUDIES, ADAMS LAKE AREA

During 1984 Francoise Gauthier, a PhD student of Colin Godwin's at UBC, was allowed access to the Rea and Twin Mountain areas to collect galena samples for Pb isotope studies. Our agreement was that we could look at the data when available.

I have now received a preliminary copy of the results and attach it hereto. Several interesting points are apparent.

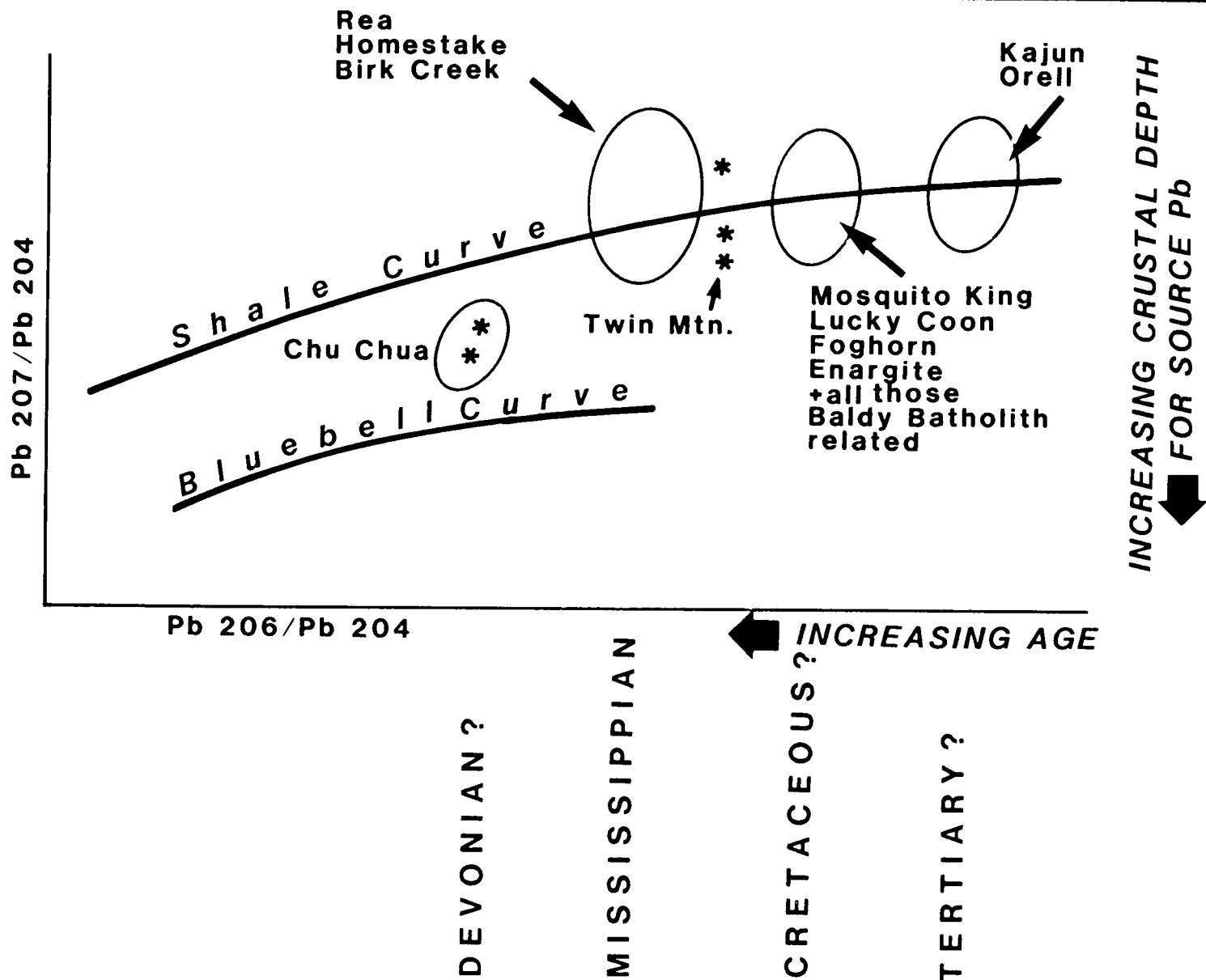
- 1) Rea, Homestake and Birk Creek cluster close to the shale curve in a location that suggests a Mississippian age and a shallow crustal source.
- 2) Chu Chua sits alone, is older (Devonian?) and of a deeper source.
- 3) Deposits adjacent to the Baldy Batholith (Foghorn, Vavenby area deposits, Enargite etc) cluster with those on the Adams Plateau (Mosquito King, Lucky Coon, Spar) on the shale curve in a possible Cretaceous age group. This includes both apparent massive sulphides and vein deposits. Could these have been reset during Cretaceous plutonism?
- 4) Beca, Kajun (June) and Orell deposits cluster about an even younger age (Tertiary??).
- 5) Twin Mountain is somewhere between 1 and 3.

Francoise still has some corrections to make to the data but believes that it will not markedly change the results.

Of extra interest with regards to the Bar property is that Vic Preto has now suggested that the quartz-eye bearing "phyllites" which host the Birk Creek deposits are deformed equivalents of the SC felsic centre quartz porphyries. Consequently we must be in massive sulphide territory!?

Ian D. Pirie

IDP/ik



Pb ISOTOPE STUDIES-ADAMS LAKE AREA

