



DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
VICTORIA

February 15, 1966.

Mr. R. V. Kirkham,  
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Madison, Wisconsin, U.S.A.

Dear Rod:

Thanks for your letter. In answer I enclose "Lode Metals" for 1963 and 1964 in case you do not have them, Peter's article, and three by Jeff and I. In the Annual Report, Tasu, Jib, and Texada are written by me and Brynnor by Peter. I think the substance of my ideas is in the Tasu and Texada reports. It is a pity Sangster's thesis is not freely available for it has some good aspects. If you have time you might get it from the University of British Columbia or possibly University Microfilms, Ann Arbor, Michigan.

To answer your specific questions as best I may.

- (1) Related intrusions are of varied type, syntectonic mesozone - Tasu and probably Brynnor; post-tectonic and epizone, Jessie (Jedway), Jib; Texada ?
- (2) Timing - definitely post skarn, post main porphyries, post main advance and emplacement of intrusions -- see Texada and Tasu. A relation to deuteritic changes in the intrusives has not been shown but Sangster and Jeff both showed gradients with a deficiency in iron in the nearby intrusive.
- (3) Relation to structure -- very definitely an association with (A) fault conduits, Jedway, Jib, Empire, Iron Hill (unpublished), probably Brynnor and Texada (Lake and Paxton orebodies) and to breccia pipe Texada (Prescott and Yellow Kid).
- (4) Quatsino is a post volcanic blanket; its origin may be related to fumerolic<sup>ll</sup> activity -- but it has an abundant benthonic fauna in the lower member.

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CENTENARY OF THE UNION OF THE COLONIES OF VANCOUVER ISLAND AND BRITISH COLUMBIA UNDER THE NAME BRITISH COLUMBIA.  
CENTENARY OF THE CONFEDERATION OF CANADA.

On second thought I have included some parts of my Queen Charlotte Bulletin manuscript which though brief cover the situation from my view best.

Glad you are out of the academic woods.

Yours very truly,



A. Sutherland Brown, Ph.D., P. Eng.,  
Geologist.

ASB:rm

Encl.: Lode Metals 1963, 1964  
Queen Charlotte Manuscript  
Replacement Magnetite on Vancouver Island, Eastwood  
Geology and Mineral Deposits of the Major Islands on the B.C. Coast  
Pyrometasomatic Iron-Copper Deposits on the West Coast  
Iron Deposits in B.C.