

Characteristics of Cu-Mtn. - Ingerbelle deposits.1. IngerbelleHost. Rx

Intensely Al^t Volc Rx of Nicola Grp.

Intrusive Rx -

Diorite, Monzonite

Apatite common. up to 3 mm. long.

Augite phenos may be alt^d.

Structures.

Faults: Gully fault. - East Trending cuts deposit.
West Boundary fault. ÷ N. Trending dips 40° W.
Honey Suckle break. ÷ NE Trending - Steep dip.

Fractures: Both N.E. & N.W.

Bedding ÷ Strata gently dipping Easterly.

Alteration.

Albitization, scapolitization + ep, bi, pyroxene, sphene.

Saussuritization, chlorite, K-fldspr (pink).

Scapolitization is latest.

Dykes:

Med. to fine grd diorite to Monzonite, (syenite?). Strongly Altered.

MineralizationControls.

Fractures (steep) + Al^t zones; Lower + Central part of Unit 2. Brownish to Greenish Andesitic Volc. Bec. Agglom in part.

2. Cu - Mtn.

Host - Rx. Nicola Vole Rx. massive and fragmental
vole res.

Intrusive Rx: Qtz poor, med to fm and porphyritic diorite to syenite.
(Lost Horse Intrusions.)

NB: Lost Horse Intrusions - dissem. tiny distinct xtals
of Apatite.

Structures . contact ; NW Cu Mtn fault. ; N. Tremblay fault. ;
Easterly Pit fault. , N-W. Main fault. ; Easterly faults.
N. Trending dyke swarms.
"NE ore fractures"

Alteration: Albitization, hfls. (As Ingerbolla.)

Dykes Biotite-lutite porph. , Bi-pyroxene microsyenite porph.

Mineralization - bornite, chpy, fracture filling.
assoc. Min.

Controls - Mainly Structural.

BC-13. - Aeromag Survey Proposed.

Sheet No. 92H/8

46 lines - 6 miles long = 276 line miles.

Sheet No 92H/7

47 lines - 5 mi long = 235 line miles.

Smaller area ↑

6 lines - 8 mi = 48

4 lines - 7 mi = 28

6 lines - 10 mi = 60

46 lines - 14 mi = 644

780 = 780 line mi.

Expanded Area.

Sheet 92H/1 West.

60 lines - 5 mi = 300 line mi.

Sheet 92H/2 East

60 lines - 5 mi = 300 line mi.

1111 line mi.

Smaller area.

1200 line miles @ 50 mph = 24 hrs.

Larger area.

276

780

600

1656 line mi @ 50 mph = 33 hrs.

Asp Cr. Area.

36 lines 10 miles long = 360 line miles.

Total areas.

Princeton-South 1200 line miles

Princeton-West 545 " "

Asp Cr. Area. 360 " "

Total 2105 line miles.

@ 50 mph for 2105 line miles = 42 hrs.

PROPERTY MAP

OF

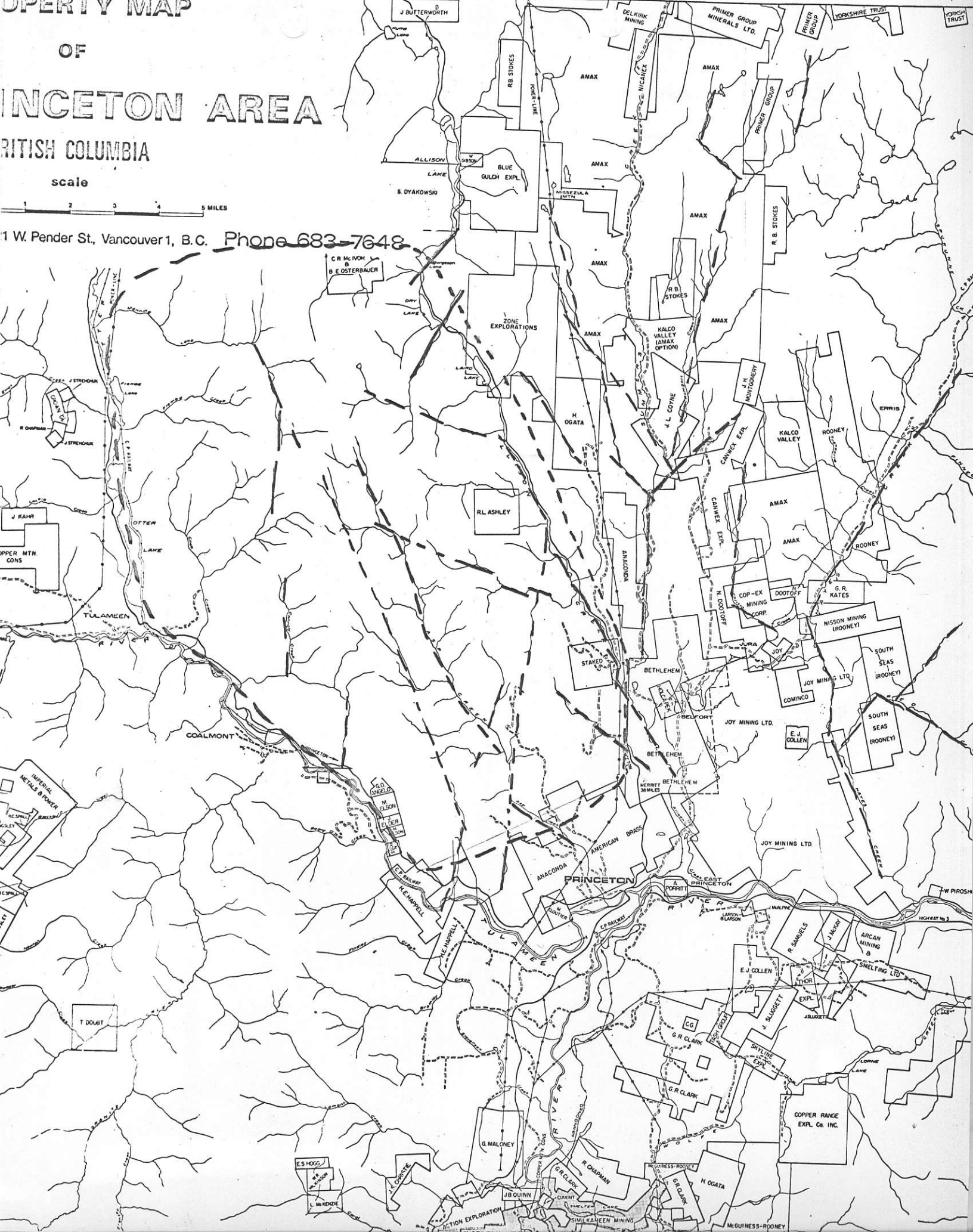
PRINCETON AREA

BRITISH COLUMBIA

scale



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Notes - Princeton Project - BC-13.

Structure - Cu Mtn + vicinity:

Rice maps major anticline with axial trace in a reverse S shape west of the confluence of Similkameen and Pasaytan Rivers and extending northerly east of Cu Mtn. to Princeton. An adjacent ^{near parallel} anticline lies W of Princeton and another S. of Cu Mtn. a second "Pair" of reverse shaped syncline-anticlines. extends N. of Princeton.

NB. Cu Mtn Mineral deposits occur on the south side of a major warp in the axial trace of the above syn- & anti- clines. It is possible that combination of the 2 fold systems has brought about a fracturing of the rock where the fold axis intersect providing a weak point into which the Cu Mtn Intrusions have penetrated.

a second more open fold occurs near Missezula Lake in the Aspen Grove Cu camp.

a third fold more closely of the Cu Mtn size occurs S. of the confluence of the Similkameen and Pasaytan rivers. There are Au-Cu + AuCuZn occurrences on the N. side of the Axis. but none recorded on the south and. east sides. Could be good target.

