

94D-10 Sustut Lake
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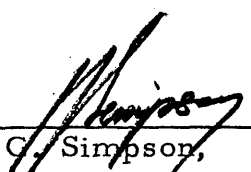
January 24, 1975

Mr. S. H. Pilcher,
Falconbridge Nickel Mines Limited,
1112 West Pender Street,
Vancouver 1, B. C.

Dear Steve:

Herewith our best effort on the Big Onion, Scum Lake and Boise Creek occurrences, the latter probably being dubious in a porphyry classification. The only other deposit we have worked on which may be of interest is Storie Moly near Cassiar, but you may well have solicited this information from New Jersey Zinc. In any event I have included it as an occurrence.

Yours very truly,



J. C. Simpson,
Exploration Manager

JGS:JF
Enc.

CYPRUS

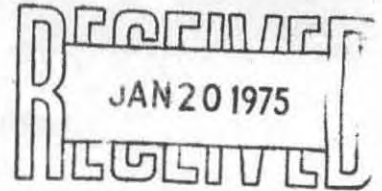
Deposit Name & Metal Type	Location Lat. Long.		Associated Plutons						Intruded Country Rocks
			Major types			Minor types			
			Composition(s)	Shape	Age	Composition(s)	Shape	Age	
(1) Big Onion Cu-Mo	126° 53'W 54° 49'N NTS 93L15/W	QD	Irregularly shaped dike complex	Tert.	Monzonite, rhyolite & quartz feld- spar porphyry	Sills & dikes	Tert, or Jurassic	Mid Jurassic Hazelton (lower & middle divisions) andesite, andesitic tuff, argillite, sandstone, congl.	
(2) Scum Lake Minor Cu	51° 47'N 123° 35'W NTS 92O/13E	Quartz feldspar porphyry	Elliptical plan - Plug.	Early Tert.	Feldspar porphyry Breccia Phase	?	Tert.	Granodiorite to diorite Late Jurassic	
(3) Boise Creek Minor Cu-Mo	49° 35'N 122° 43'W	Granodiorite	?	Coast Plutonic Rocks ?	Diorite & migmatite	Irregular	Coast Plutonic	Roof pendant of Harrison Lake Formation - andesite, dacite, metamorphosed and partially granitised	
(4) Storie Moly Mo	59° 15'N 130° 55'W	Qtz monz. porphyry	Massive sill	Mesozoic	Various acid porphyry dikes			Granodiorite of Cassiar intrusions and Atan Group L. Comb. seds.	

Grade & Tonnage	Orebody			Mineralization			
	Host Rock(s)	Shape	Controlling Features	Sulfides Present	Sulfide Zoning	Sulfide Occurrence	Gangue & Others
(1) 20 mt @ 0.36% Cu	QD, volcs., silicified rocks	Irreg., elongate, tabular, steeply dipping	Sheared & altered contact zone of QD is locus of highest grade min.	Py, cpy, minor bornite & molybdenite (traces supergene chalcocite)	No part. zoning pattern well developed (periphery of min. zone marked by appearance of mt. locally)	Fracture filling mafic repl.	Quartz calcite Minor gypsum Epidote
(2) Nil tons Best .2 Cu over 50'	Quartz feldspar porphyry	Irregular in stock	Some control by amount of brecciation of QFP & FP but irregular	Py, Cpy. Minor Chalco. Minor Moly	Supergene zone prominent	Diss. porph.	Qtz. calcite
(3) Nil tons Av. assay 0.1 Cu 0.15 MoS ₂	Diorite - granodiorite	Irregular	Inclusion rich pluton halo	Py, Cpy. Moly.	Not reported	Diss. to fracture fill	Qtz. calcite (Not really true porphyry occurrence. Sulphides mainly with late Qtz. calcite veining, etc.)
(4) 33 m. s. t. of 0.13 MoS ₂ or 50 m. s. t. of 0.12 MoS ₂	Q.M.F.	Multi phase sill like intrusion	Fracture density and phase boundaries of multiple intrusion porphyry sill	Py, Mo	Not noted	Fracture filling and rosettes	Qtz.

Alteration Zoning sequence from centre or major type or minerals	Intensity	Geophysical/ Geochemical Response	References
(1) Argillic - pyrophyllitic - qtz., ser., py (local) (concentric zoning not well developed)	Locally strong. Generally only moderately developed.	Mag - nil where surveyed. IP - very good on both resist- ivity & FE.	K. McFall) G. Jilson) - (Internal Reports C.E.C.L.) J.G. Simpson)
(2) No zoning mappable. Pyrite ubiquitous. Alteration from intense argillic to weak argillic. Patchy to intense silicification.	Strong to weak	Strong frag. IP effect. Weak to neg. geo- chemical response.	P. Lewis '71 (Int. Rep. C.E.C.L.) J.G. Simpson (Int. Rep. C.E.C.L.)
(3) None reported	Localized intense alter- ation of granodiorite. No details given.	IP fair to good. Cu-Mo silt & soil response.	Numerous Internal Reports for C.E.C.L. by Chapman, Wood & Griswold. Final report Jan. 68 by V.W. Shuttleworth and E.P. Chapman.
(4) Not evident except at phase contact zones = Argillic	Moderate and localized	+Mag + geochem no IP tried	J. Ariz - Internal Reports for New Jersey Zinc



FALCONBRIDGE NICKEL MINES LIMITED
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January 15, 1975

*Mr. Glen Simpson
Cyrus Anvil Mining Coys.
804-1550 Alberni St.*

Dear Sirs:

Jim McDougall and myself are attempting to compile data on some smaller and lesser-known 'porphyry type' copper and/or molybdenum deposits of B.C. and Yukon for the forthcoming C.I.M.M. Volume. In so doing, we must rely on data supplied by companies which have a working knowledge of these deposits. We would greatly appreciate it if you would complete, as far as possible, the enclosed data sheets for the deposits listed below.

Since reserve figures may be classified, an approximation such as, area exposed, or volume of mineralized rock, or general size (large, medium, small) may be more agreeable. We realize some of the listings may be mere showings or minor occurrences, and for some, you may not agree to a 'porphyry type' classification. In these cases, please indicate your reasons as to why they should not be included. Under references please indicate how you wish the data to be acknowledged. Also please verify the name as listed.

Due to time limitations, we would like the information as quickly as possible. Deadline for the final manuscript is due February 1st. Your cooperation in this matter will be appreciated.

- 1. Big Onion*
 - 2. Seom Lake*
 - 3. Boise Creek (Flagstone Mines)*
- Others ?*

Sincerely,

FALCONBRIDGE NICKEL MINES LIMITED

S. H. Pilcher

SHP/jp
Encl.

EXPLANATION

Deposit Name and Metal type

Cu-Cu Mo-Mo

Associated Plutons

Composition

QM
QM - QD Zoned
QM - QD Multiple

Shape

Dikes, plug, stock, batholith
irregular, elongate, circular-pipelike,
elliptical, tabular (sill-like), mushroom,
complex, etc.

Age

Geologic, radiometric (M.Y.)

Intruded Country Rock

Age, rock type, formation name

Orebody

Shape

irregular, oval, cylinder, wedge, pipelike,
crescent, cone, lens etc.

Controlling Features

irregular fracture zone or stockwork, breccia,
contact-fracture zone (concentric, radial,
irregular), fault-fracture zone, peripheral
relation to dike, plug etc.

Mineralization

Sulfides Present

in percentage or order of abundance.

Sulfides Zoning

from centre outward (if present)

Sulfide Occurrence

fracture filling, diss., mafic replacement
breccia filling etc.

Gangue & Other Associated Minerals

Quartz, magnetite, tourmaline etc.

Alteration

Zoning Sequence or Type
or Minerals

Potassic-phyllitic-argillic-propylitic, Potassic,
argillic, kaolin, sericite, biotite etc.

Intensity - weak, mod., strong

Geophysical-Geochemical Response

I.P. - weak, strong etc.
Mag. - Weak
Copper in seds.
Copper in soils

References

By Number (List at end of paper)