

830634

SUMMARY REPORT
ON THE
DON PORPHYRY COPPER-MOLYBDENUM PROPERTY

Jervis Inlet
Vancouver Mining Division
British Columbia

NTS: 92K/1E
Latitude: 50°04' North
Longitude: 124°03' West

ELECTRA MINING CONSOLIDATED LTD.

404 - 595 Howe Street
Vancouver, B.C.
V6C 2T5

May 9, 1995

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

Introduction

Electra Mining Consolidated Ltd. holds title to the DON property which includes an unexplored, potentially large porphyry system near Jervis Inlet on the southwest coast of British Columbia.

Copper and molybdenum mineralization in quartz veins and veinlets is related to multiple-phase porphyritic granitic rocks which intrude older Coast granodiorites. Intense sericite and K-feldspar alteration is developed marginal to mineralized quartz veinlets and character samples from several showings within a 1 square km area have yielded values of up to 0.82% Cu and 0.68% Mo.

Limited soil sampling has partially defined a 2.5 x 2 km area with anomalous (+20 ppm) Mo values and partly coincident +80 ppm Cu values. No geophysical surveys have been conducted on the property.

Location and Access

The DON mineral claims, 100 km northwest of Vancouver (Figure 1), are located on a moderately steep, heavily forested slope immediately east of Brittain River and 7.5 km north of Prince of Wales Reach on Jervis Inlet (Figure 2). The geographic centre of the property is at latitude 50°04' North and 124°03' West in NTS map-area 92K/1E.

A landing at the mouth of Brittain River is accessible by boat or floatplane. Logging roads extend up the valley and a recently constructed bridge across Brittain River affords access to the western claims area. Two helipads have been constructed in the central part of the property.

Mineral Property

The DON property consists of two 4-post mineral claims of 18 units each in the Vancouver Mining Division (Figure 3). The claims are registered in the name of Brittain River Resources Ltd., a private company controlled by Electra Mining Consolidated Ltd. Details are as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record Number</u>	<u>Expiry Date</u>
DON 1	18	258248	Sept.18,1996
DON 2	18	258249	" "

Previous Work

Copper-molybdenum mineralization was discovered in a tributary of Brittain River in 1984 by an independent prospector who had first noted mineralization in the area 35 years earlier. Claims were located and initial prospecting was undertaken in 1984 and 1985.

Cominco Ltd. optioned the property in 1986 and carried out geological mapping and the collection and analyses of 11 rock and 321 soil samples prior to relinquishing the option.

Principals of Electra Mining Consolidated Ltd. acquired control of Brittain River Resources Ltd. in early 1990. Recent work has included a cooperative effort with local loggers to establish a bridge across Brittain River and some improvements to pre-existing logging roads.

Property Geology, Geochemistry and Mineralization

The Jervis Inlet area, situated in the southwestern part of the Coast Crystalline tectonic belt, is underlain principally by mid- to late Cretaceous granitic rocks of the Coast Plutonic Complex.

Much of the area of the DON claims is underlain by a younger (Tertiary) porphyritic biotite granite which intrudes older, weakly foliated Coast granodiorites and quartz diorites (Figure 4). The biotite granite body, which has dimensions of at least 2.5 x 2 km, is cored by a partially unroofed, oval, 750 x 500 metre leucocratic quartz-feldspar porphyry (QFP) plug exposed in McConnell Creek tributary to Brittain River (Figure 4). Both the porphyritic biotite granite and QFP are cut by 1 metre wide aplite and feldspar porphyry dykes.

An east-northeast linear, extending from west of Brittain River through McConnell Creek, probably represents the structure which localized the QFP plug. Major joints and fracture patterns on the property include an east-northeast set paralleling the regional trend plus a complementary north-northwest set. Both have moderate to steep dips.

The four Cu-Mo zones identified to date are all hosted by the QFP phase. These include two within the plug in which chalcopyrite and molybdenite are contained in 2 - 30 cm wide, east-northeast trending quartz veins, quartz veinlets and fractures. Fracture and vein density ranges from 1 per 10 cm

to 1 per 15 cm. Veins and fractures are enveloped by 2 -15 cm wide selvages of gray-green sericite commonly bordered by secondary K-feldspar. 1 - 5% pyrite occurs both within veins and fractures and as disseminations in the host QFP.

Two other Cu-Mo zones, also hosted by QFP, are east and south of the main exposed plug (Figure 4). These feature chalcopyrite and molybdenite in both east-northeast and later north-northwest fractures and veinlets bordered by selvages of sericite and K-feldspar.

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Anomalous Mo values, centred on the QFP plug, are widespread over a 2.5 x 2 km area (Figure 5). In contrast, better Cu values appear to be restricted to the QFP plug, a feature thought by Cominco staff to be due to acidic soil conditions.

Conclusions and Recommendations

The DON property is relatively unexplored and has the potential for hosting a large Cu-Mo porphyry deposit with possible precious metals credits.

Cu-Mo mineralization is related to a partially unroofed quartz-feldspar porphyry (QFP) plug. Evidence for a much larger size for this intrusive phase than that exposed in

McConnell Creek includes the two mineralized zones hosted by QFP several hundred metres away from the exposed limits of the plug, a 2.5 x 2 km area with anomalous Mo values in soils and a broad zone of +1% disseminated pyrite which extends outward a considerable distance from the exposed QFP.

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The geological setting of the DON porphyry system is similar to the Salal Creek Mo and OK Cu-Mo deposits in southwestern B.C. and to the Quartz Hill Mo deposit in southeastern Alaska (+1 billion tons grading 0.15% molybdenum sulphide).

A base map at a scale of 1:5000 will be prepared prior to the inception of the 1995 field program. No geophysical surveys have been conducted on the property and a 25 line-km Induced Polarization survey is proposed to assist in defining targets for a subsequent test drilling program. Estimated program costs total \$100,000 which will be funded by way of internally generated cash flow from Electra's wholly-owned mining operation.

References

- Carter, N.C. (1985): Geological Report on the DON Molybdenum-Copper Prospect, Jervis Inlet Area, Vancouver Mining Division, British Columbia - private report for Brittain River Resources Ltd.
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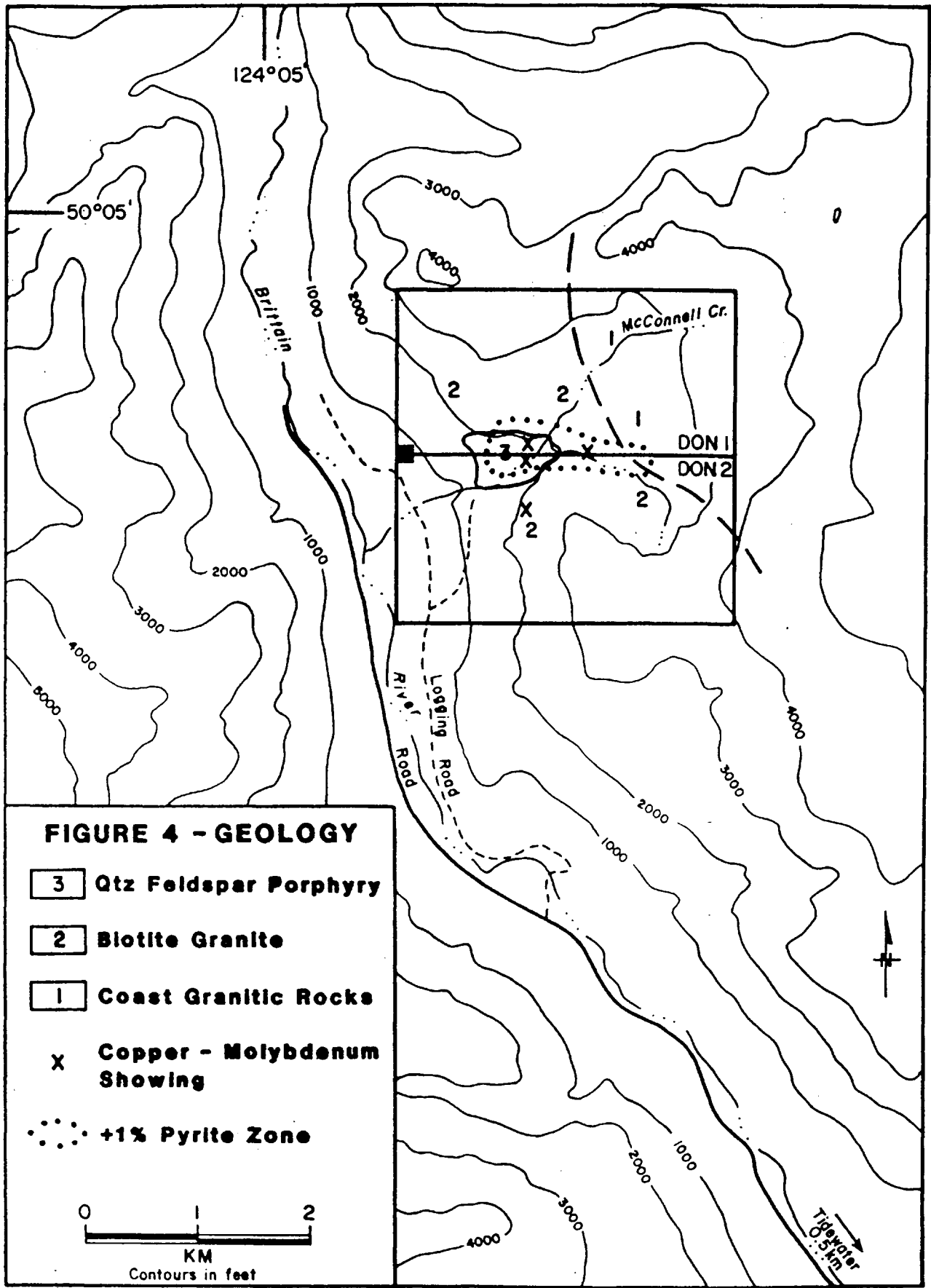
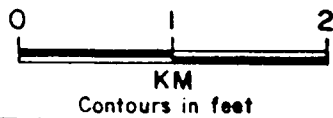


FIGURE 4 - GEOLOGY

- 3** Qtz Feldspar Porphyry
- 2** Biotite Granite
- 1** Coast Granitic Rocks
- X** Copper - Molybdenum Showing
- +1% Pyrite Zone



**PETER E. WALCOTT
& ASSOCIATES LTD**

Geophysical Services

BY FAX

May 16th, 1994

Mr. N.C. Carter Ph.D., P.Eng.
1410 Wende Road,
Victoria, B.C.
V8P 3T5

Dear Nick,

Re: Proposed I.P. Survey, Don property, Jervis Inlet, B.C.

On looking at the overview you faxed myself last week I would suggest that you run pole-dipole survey a = 50 metre n 1 to 4 at 300 metre spaced intervals across the property where possible on north-south lines. Can do fill in lines if warranted.

Although contours don't show it I would imagine you might have problems crossing McConnell creek.

This would probably give some 25 kms of coverage assuming the above.

We would be prepared to undertake the survey at the rates listed below:

1.	Mobilization:	Vancouver - property - return estimate \$7,000.00	Cost
2.	Provision of senior operator, operator, 4 helpers, I.P. equipment, camp gear, ATV & trailer	(a)	\$2,150.00 per survey day
		(b)	\$1,440.00 per standby day
3.	Report writing & interpretation		\$85.00 per hour

**PETER E. WALCOTT
& ASSOCIATES LTD**

- 2 -

4.	Report preparation	Cost
5.	Mylar pseudosections of data	\$20.00 per section
6.	Plan map contour data any separation	\$200.00 per map
	any additional	\$100.00 per map

Our estimated costs would be as follows:

1.)	Mobilization	\$7,000.00
2.)	Flagging & clearing lines at \$350.00 per km	\$8,750.00
3.)	I.P. surveying 14 days at \$2,150.00 per day	\$30,100.00
4.)	Camp set-up & removal - 2 days	\$2,400.00
5.)	Report + maps	\$850.00
6.)	One grocery run (fixed wing)	<u>\$500.00</u>
	Total estimated cost	<u>\$49,600.00</u> =====

The opportunity of offering our services is sincerely appreciated.
If you have any queries please do not hesitate to contact us.

Yours truly,

PETER E. WALCOTT & ASSOCIATES LIMITED

Peter E. Walcott



**PETER E. WALCOTT
& ASSOCIATES LTD**

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Dear Nick,

Re: I.P. surveying, Don property

As per other letter I figure if you are applying for Explore B.C. grant you could as well apply for lots.

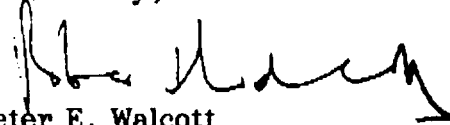
If you want to do less we would probably try to start on south end and flag and chain in a line as we read. We would try to keep the coverage so that we could read a line a day and not have to climb back up half way to finish line.

Mob-demob costs would remain same. I figure a boat to take camp and ATV would be best way to get access.

I was talking to Mike Gray this a.m. as am doing some work for him at Noranda and he said the creek was pretty nigh impossible to traverse in most places.

Cost to do about 10 kms of lines say 4 or 5 lines would be in the order of \$21,000.00.

Yours truly,



Peter E. Walcott

ELECTRA Mining Consolidated Ltd.



404 - 595 HOWE STREET, VANCOUVER, B.C. V6C 2T5

TELEPHONE: (604) 685-4747

FAX: (604) 685-4730

January 25, 1993

DON PORPHYRY Cu-Mo PROSPECT

Jervis Inlet
British Columbia

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OFFICE USE ONLY

EXPLORE B.C.
ACCELERATED MINE EXPLORATION PROGRAM
MINERAL EXPLORATION INCENTIVE PROGRAM
APPLICATION FOR FUNDING
1994-95

INSTRUCTIONS:

- Please type or print
- Please identify program being applied for
- Please submit completed forms to:
EXPLORE B.C. Program Manager
5th Floor - 1810 Blanshard Street
Ministry of Energy, Mines and Petroleum Resources
Victoria, B.C., V8V 1X4

(Check which program is being applied for)

- Accelerated Mine Exploration Program (AMEP)
 Mineral Exploration Incentive Program (MEIP)

Summary Report Attached

Date of Application: <u>MAY 25 1994</u> Free Miner Certificate Number <u>107590</u>		
Applicant: <u>ELECTRA MINING CONSOLIDATED LTD.</u>		
Address: <u>404-595 HOWE STREET</u> Telephone: <u>685-4747</u>		
City: <u>VANCOUVER</u> Province: <u>BC</u> Postal Code: <u>V6C 2T5</u>		
Person to contact: <u>D.B. STELLING</u> Position: <u>PRESIDENT</u> Telephone: <u>685-4747</u>		
Name of Project: <u>DON</u>		
Mining Division: <u>VANCOUVER</u> NTS Sheet <u>92 K/1E</u>		
Previous Expenditures by Applicant on this property:		
	Pre 1992 \$ _____	
	1992 \$ <u>36,380</u>	
	1993 \$ _____	
	Total \$ <u>36,380</u>	
Total 1994 Exploration Budget: \$ <u>400,000</u> Percentage of Total to be spent in B.C. <u>25</u> %		
Principal Business Activity: <u>MINING, MINERAL EXPLORATION</u>		
Public <input checked="" type="checkbox"/> Private _____		
Signature of Applicant or Signing Officer	Name (print)	Position Title or Occupation
<u>[Signature]</u>	<u>N.C. CARTER</u>	<u>DIRECTOR</u>

PROPOSED BUDGET 1994-95
(Check applicable program)

Mineral Exploration Incentive Program Accelerated Mine Exploration Program

	Total Eligible Expenses
1. Geological Surveys, Map and Report Preparation and Related Costs	\$
2. Geophysical Surveys (line-kilometres)	
Ground	
Magnetic	\$.....
Electromagnetic	\$.....
Induced Polarization - 25	\$49,600
Radiometric	\$.....
Seismic	\$.....
Other	\$.....
Airborne	\$.....
	\$49,600
3. Geochemical Surveys (number of samples analysed for _____)	
Soil	\$.....
Silt	\$.....
Rock	\$.....
Other	\$.....
	\$.....
4. Drilling	
Surface _____ m @ \$ _____ =	\$.....
Underground _____ m @ \$ _____ =	\$.....
	\$.....
5. Related Technical Studies	
Sampling/Assaying	\$.....
Petrographic	\$.....
Mineralogic	\$.....
Metallurgic	\$.....
	\$.....
6. Preparatory/Physical	
Line/Grid (kilometres)	\$.....
Trenching (linear metres)	\$.....
	\$.....
7. Tunnelling, Drifting, Other Lateral Excavation, Shaft Sinking, (25% of total expenses are eligible)	
_____ m @ \$..... = \$..... x 25%	\$.....
_____ m @ \$..... = \$..... x 25%	\$.....
	\$.....
8. Other Exploration Costs (Attach detailed schedule)	
.....	\$.....
.....	\$.....
.....	\$.....
	\$.....
TOTAL ELIGIBLE EXPENSES	\$49,600

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Latitude: 50°04' North
Longitude: 124°03' West

ELECTRA MINING CONSOLIDATED LTD.

404 - 595 Howe Street
Vancouver, B.C.
V6C 2T5

May 25, 1994

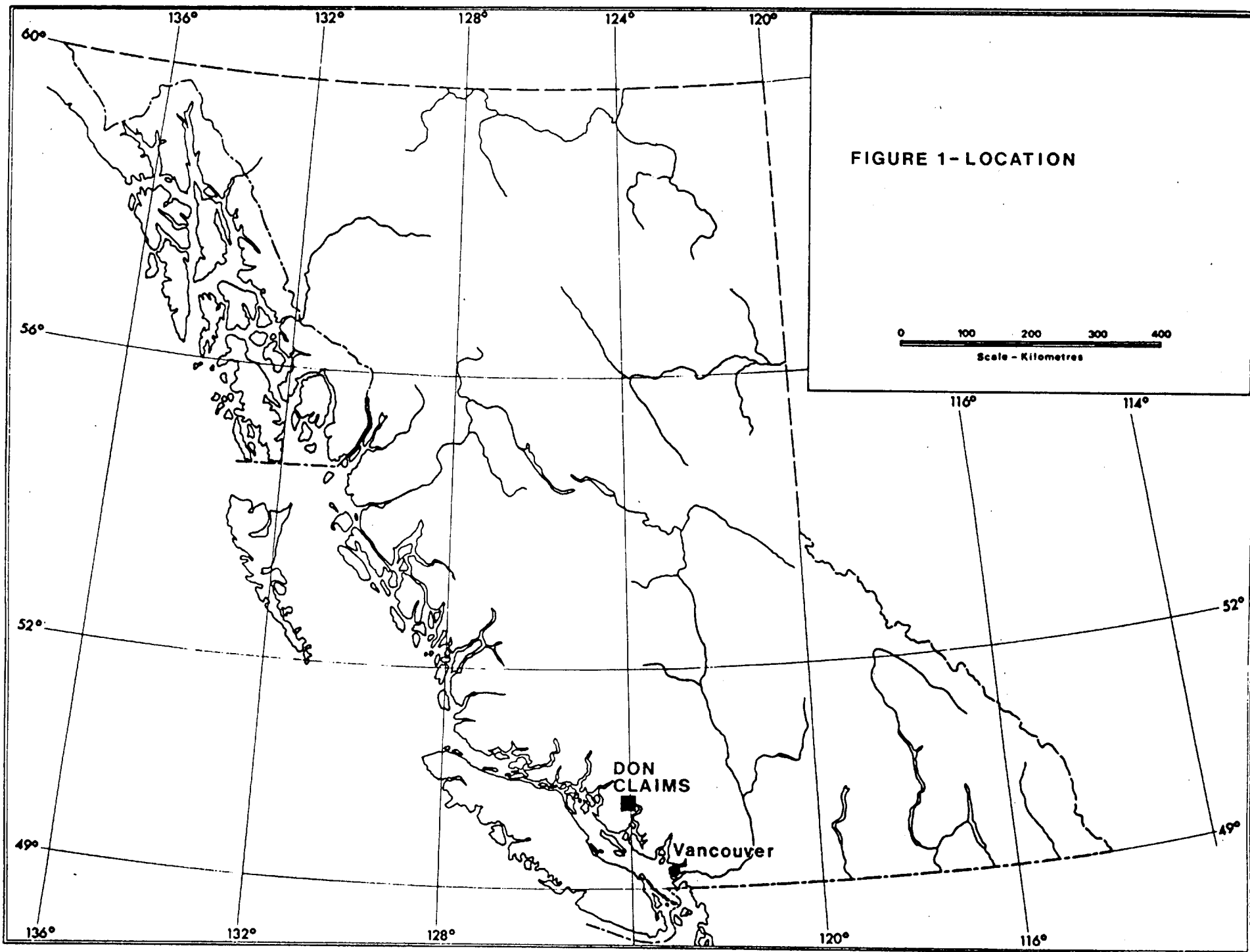
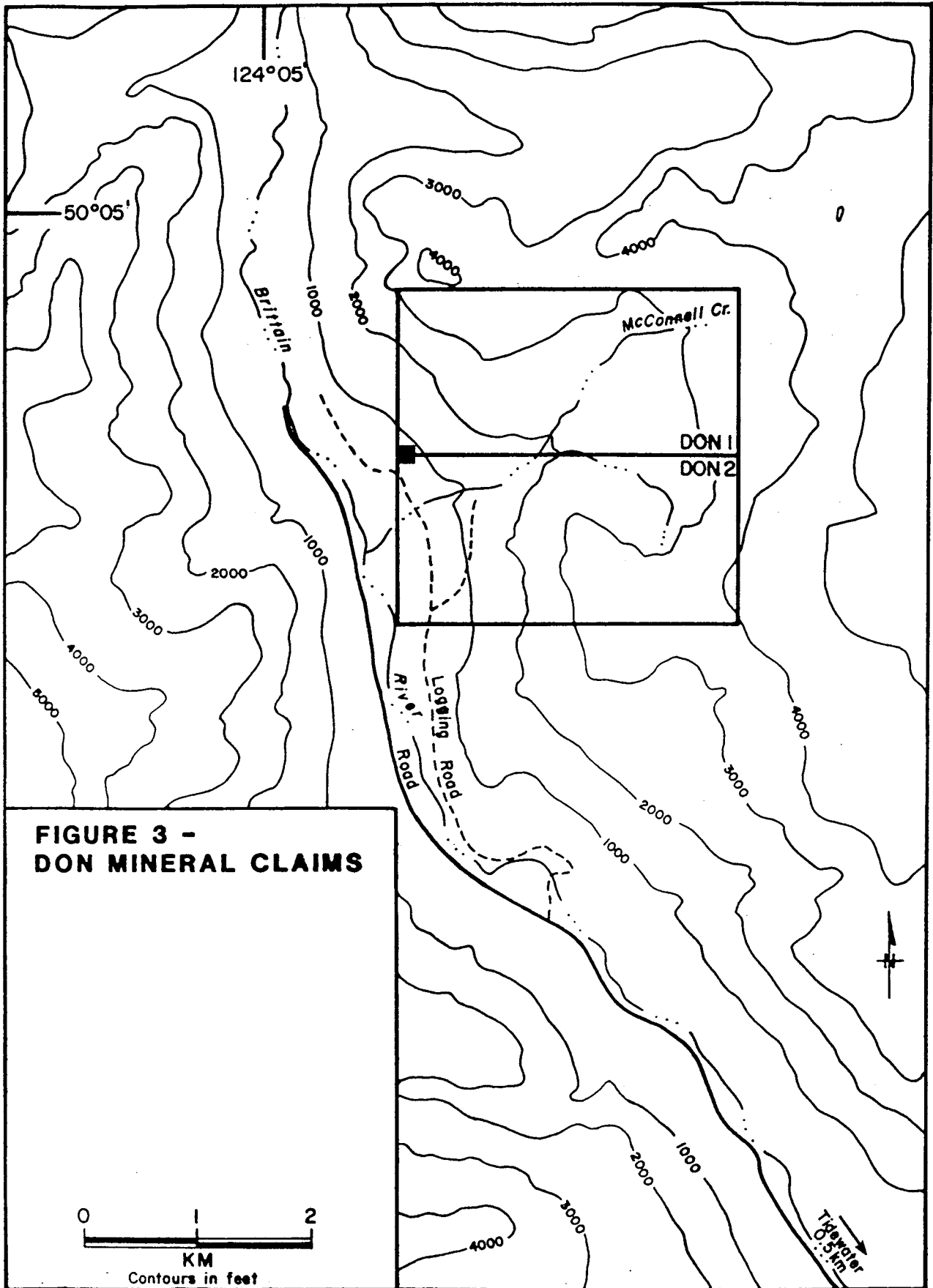


FIGURE 1-LOCATION

0 100 200 300 400
Scale - Kilometres

DON
CLAIMS

Vancouver



**FIGURE 3 -
DON MINERAL CLAIMS**