

86-592 - 15248
07/87

MINISTRY OF ENERGY, MINES
AND PETROLEUM RESOURCES
Rec'd
OCT 16 1986
SUBJECT _____
FILE _____
VANCOUVER, B.C.

GEOCHEMICAL REPORT

MOUNT ARMOUR PROJECT

Kamloops Mining Division

NTS 92 P/IE

Lat 51° 20'N, Long 120° 06'W
09.3'

Claim: FC

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,248

Owner:

Catty Resources Inc.
c/o 6415 - 64th Street
Delta, B.C.
V4K 4E2

Ian D. Pirie
September 1986

Operator: Catty Resources Inc.

~~Operation Rainy Ridge Copper~~
6415 - 64th Street
Delta, B.C.
V4K 4E2

TABLE OF CONTENTS

	Page
INTRODUCTION	1
General	
Location and Access	
Physiography	
History	
WORK DONE	2
TECHNICAL DATA	2
RESULTS	2
INTERPRETATION	3
CONCLUSIONS AND RECOMMENDATIONS	4
ITEMIZED COST STATEMENT	5
CERTIFICATE OF QUALIFICATIONS	6
FIGURES	
Figure 1	Location Map 1(a)
TABLES	
TABLE 1	Summary/Statistics 3
MAPS	
Map 1	Cu, Zn in soils in pocket
Map 2	Pb, As in soils in pocket
Map 3	Ag, Au in soils in pocket

INTRODUCTION

General

The Mount Armour property consists of a single, 18 unit, M.G.S. claim, record number 4649, staked in August 1983 by Corporation Falconbridge Copper (CFC). It is currently the subject of an option agreement between CFC and Cutty Resources Inc. Cutty is the registered owner. CFC operates.

Location and Access (Figure 1)

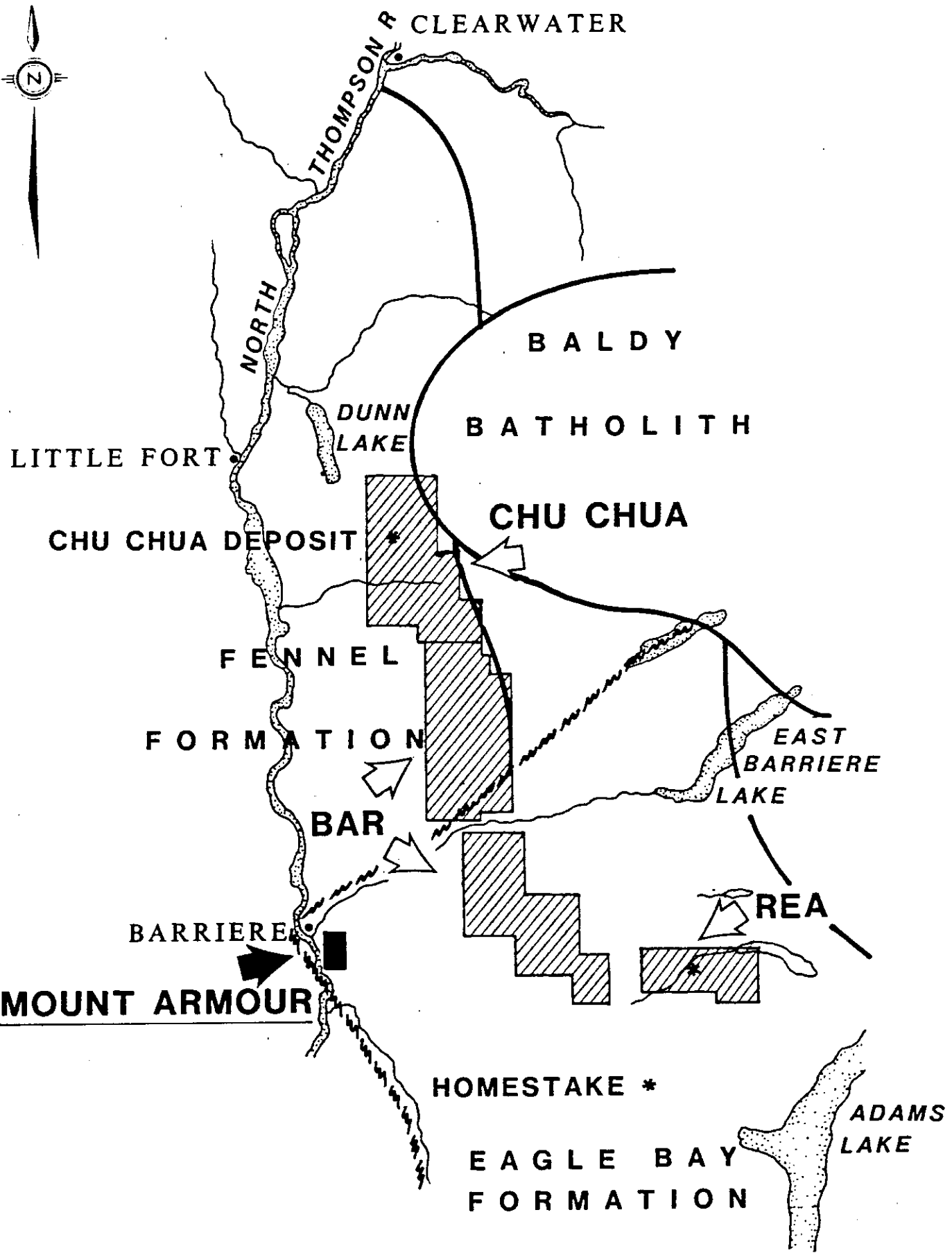
The property is located immediately southeast of the town of Barriere, 65 km north of Kamloops, B.C. It is adjacent to the Yellowhead Highway and the CN mainline and has a power line crossing it. Access is from the Skwaam Bay Road.

Physiography

Mount Armour rises fairly steeply from the N. Thompson river at approximately 400m to a maximum elevation of just over 800m. It is sparsely forested, consisting mainly of grassland with pine trees. The climate is quite dry and no permanent water is present on the property. Temperatures range from +35°C in summer to -30°C in winter.

History

Massive sulphide showings on Mount Armour have been known for some time with old prospect pits probably dating back to the early 1900's. Very limited diamond drilling is believed to have been carried out in the late 1960's by a local prospector with inconclusive results. Craigmont carried out a soils/VLF/Mag survey over the showings in 1974, but although anomalies were outlined, they did not follow them up.



ADAMS/BARRIERE PROPERTY LOCATION MAP

0 10Km



CORPORATION FALCONBRIDGE COPPER

Fig 1

WORK DONE

The following work was carried out during November 1985:

Linecutting	10.4Km	50m spaced winglines with 25m stations. 25m lines over known mineralization.
Soil Sampling	1292 samples	Analyzed for Cu, Pb, Zn, Au, Ag and As

TECHNICAL DATA

Soil samples were taken at 12.5m intervals along the winglines. B horizon material from depths of up to 40 cm was taken wherever possible. Samples were analyzed by Min-En Labs of North Vancouver using the -80 mesh fraction. Au was determined by aqua regia - atomic absorption. Ag, Cu, Pb, Zn and As were determined by a standard ICP procedure.

RESULTS

The values obtained are plotted in element pairs in plan view on maps 1,2 and 3. A single contour was chosen for each element to outline potentially anomalous areas. This contour was chosen after careful consideration of histograms of the data. Since none of the populations was strictly normal, percentile intervals based on obvious breaks in the histograms were preferred. Summary statistics are shown in Table 1.

Table 1
Summary Statistics

Element	Range(ppm)	Mean	Median	Contour Percentile Chosen	Value (ppm)
Au	<5 - 2230 (ppb)	19	5	92	30(ppb)
Ag	0.1- 5.6	0.94	0.75	95	1.5
Cu	7 - 499	44	30	95	120
Zn	30 - 4210	210	75	93	500
Pb	3 - 578	34	25	98	100
As	1 - 111	15	5	98	50

INTERPRETATION

Examination of the data reveals 6 main areas of anomalous values which have been labelled 1 to 6 on Map 3. Descriptions are as follows

Zone 1

- adjacent to and extending north of known massive sulphides
- characterized by up to 2230 ppb Au, 499 ppm Cu, 5.6 ppm Ag and 623 ppm Zn

Zone 2

- broad area (150x100m) approximately coincident with known sulphides
- anomalous in all elements
- up to 1700 ppb Au, 232 ppm Cu, 3.3 ppm Ag, 296 ppm Pb, 871 ppm Zn, 81 ppm As

Zone 3

- small area of Cu-Ag-Pb anomalies flanked by Zn
- up to 168 ppm Cu, 2.2 ppm Ag, 158 ppm Pb and 4210 ppm Zn

Zone 4

- zone of discontinuous Cu-Au-Zn-Pb-Ag anomalies
- 200m long and open to the south
- up to 364 ppm Cu, 385 ppb Au, 1.7 ppm Ag, 545 ppm Pb, 884 ppm Zn

Zone 5

- weak, irregular
- up to 244 ppm Cu, 65 ppb Au, 2.1 ppm Ag, 121 ppm Pb

Zone 6

- linear anomaly open to the south
- essentially a Au (Ag) anomaly
- coincident topographic linear on the ground
- Au up to 940 ppb, Ag up to 2.1 ppm

Of these anomalous areas, two are associated with known sulphides exposed in pits on the surface. The other four, however, have no known sulphides associated. Zones 3 - 5 have similar, although weaker, characteristics to 1 and 2 and may indicate buried massive sulphide mineralization. Zone 6 is almost strictly a Au anomaly which, along with its coincidence to a topographic feature, may indicate the presence of an auriferous shear.

CONCLUSIONS AND RECOMMENDATIONS

At least 6 zones of anomalous soil geochemistry have been outlined by this survey. They highlight the areas of known mineralization and point to the presence of at least 4 others.

Before identifying specific drill targets, it is recommended that geological mapping and geophysical surveying (IP) be considered to provide better definition.

ITEMIZED COST STATEMENT

The following is a statement of expenditures incurred on the FC mineral claim during the period November 1 to December 31, 1985 for the purpose of mineral exploration.

LINECUTTING

contracted to Spirex Geoservices

10.4 Km at \$300/km

\$ 3,120.00

Total Physical Work =

\$ 3,120.00

SOIL SAMPLING

contracted to Spirex Geoservices

1292 samples at \$3.00/sample

3,876.00

SOIL ANALYSIS (MIN-EN LABS LTD.)

1292 analyses (Cu, Pb, Zn, Ag, As, Au) at \$9.135

12,034.98

SAMPLE SHIPPING

223.45

INTERPRETATION AND REPORT PREP

LD. Pirie, 2 days at \$350/day

700.00

DRAFTING 2 days at \$125/day

250.00

MISCELLANEOUS (typing, computer, supplies, copying, etc.)

150.00

Total Soil Programme

\$ 17,234.43

20,354.43

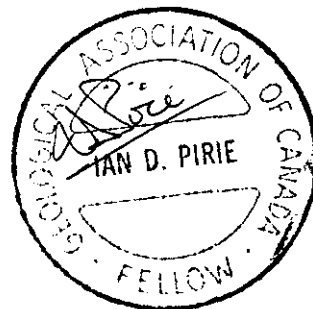
CERTIFICATE OF QUALIFICATIONS

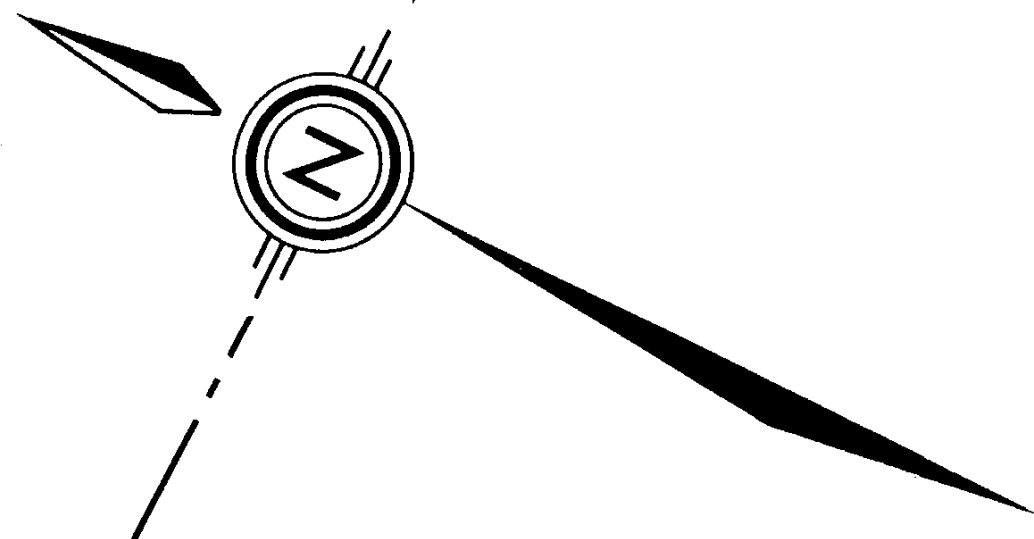
I, Ian D. Pirie certify that:

1. I am an Exploration Geologist residing at 307 - 2145 York Avenue, Vancouver, B. C.
2. I have a BSc (Hons) in Applied Geology from the University of Strathclyde, Glasgow, Scotland (1977) and a MSc (Geology/Geochemistry) from Queen's University at Kingston, Ontario (1980).
3. I have practised my profession since 1977.
4. I personally carried out or supervised the work reported herein.

Date Oct 15th, 1986.

Ian D. Pirie





L 4100 N
L 3150 N
L 3100 N
L 2150 N
L 2100 N
L 1150 N
L 1100 N
L 0150 N
L 0100
L 0150 S
L 1100 S
L 1150 S
L 2100 S
L 2150 S
L 3100 S
L 3150 S
L 4100 S
L 4150 S
L 5100 S
L 5150 S
L 6100 S
L 6150 S
L 7100 S
L 7150 S
L 8100 S

1100 E

BASELINE 0100

1100 W

2100 W

3100 W

4100 W

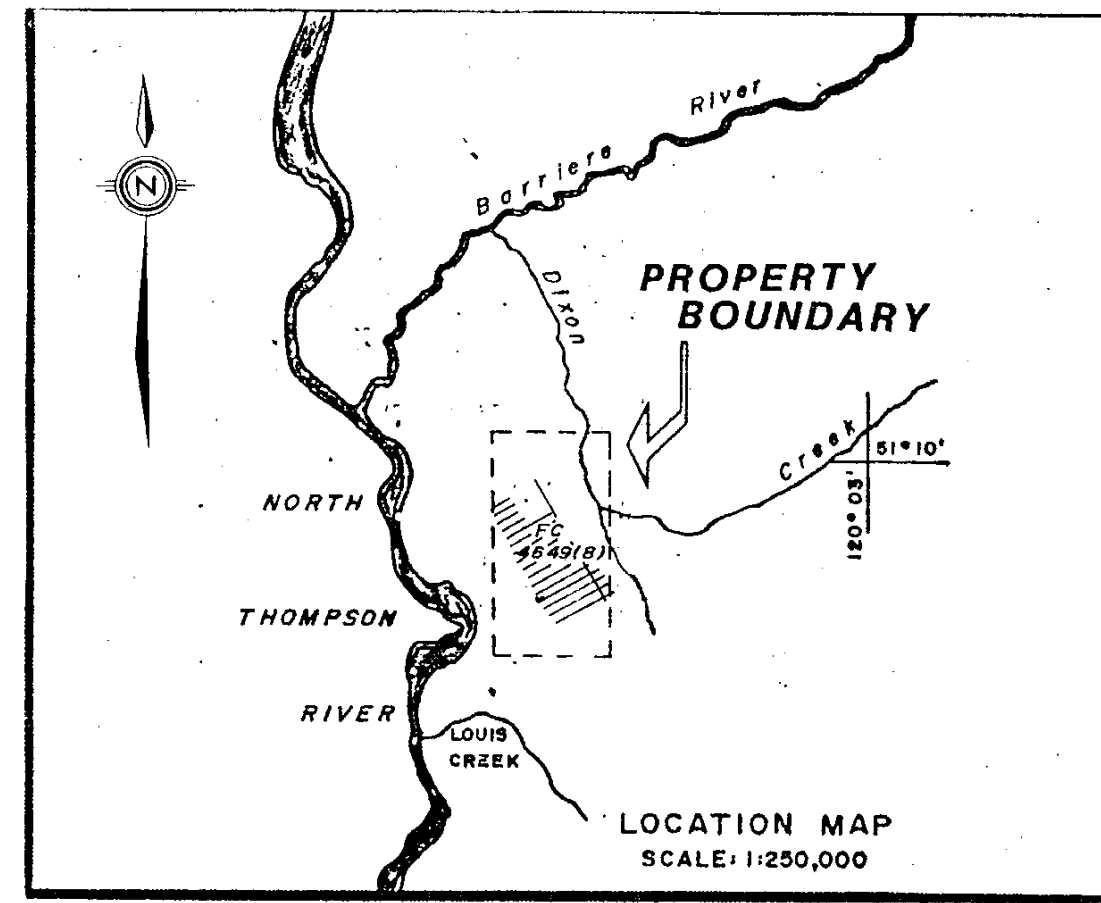
5100 W

6100 W

CLAIM BOUNDARY

L.C.P. 1000m

6N2W
6N3W
6N4W
6N5W
6N6W
6N7W
6N8W
6N9W
6N10W
6N11W
6N12W
6N13W
6N14W
6N15W
6N16W
6N17W
6N18W
6N19W
6N20W
6N21W
6N22W
6N23W
6N24W
6N25W
6N26W
6N27W
6N28W
6N29W
6N30W
6N31W
6N32W
6N33W
6N34W
6N35W
6N36W
6N37W
6N38W
6N39W
6N40W
6N41W
6N42W
6N43W
6N44W
6N45W
6N46W
6N47W
6N48W
6N49W
6N50W
6N51W
6N52W
6N53W
6N54W
6N55W
6N56W
6N57W
6N58W
6N59W
6N60W
6N61W
6N62W
6N63W
6N64W
6N65W
6N66W
6N67W
6N68W
6N69W
6N70W
6N71W
6N72W
6N73W
6N74W
6N75W
6N76W
6N77W
6N78W
6N79W
6N80W
6N81W
6N82W
6N83W
6N84W
6N85W
6N86W
6N87W
6N88W
6N89W
6N90W
6N91W
6N92W
6N93W
6N94W
6N95W
6N96W
6N97W
6N98W
6N99W
6N100W



Cu ppm 62-426 Zn ppm
○ Cu >120ppm
○ Zn 500ppm 250ppm

15,248

COMPILED FROM HISTOGRAM AND STATISTICAL ANALYSIS FOR EACH ELEMENT

CORPORATION FALCONBRIDGE COPPER

MOUNT ARMOUR PROJECT

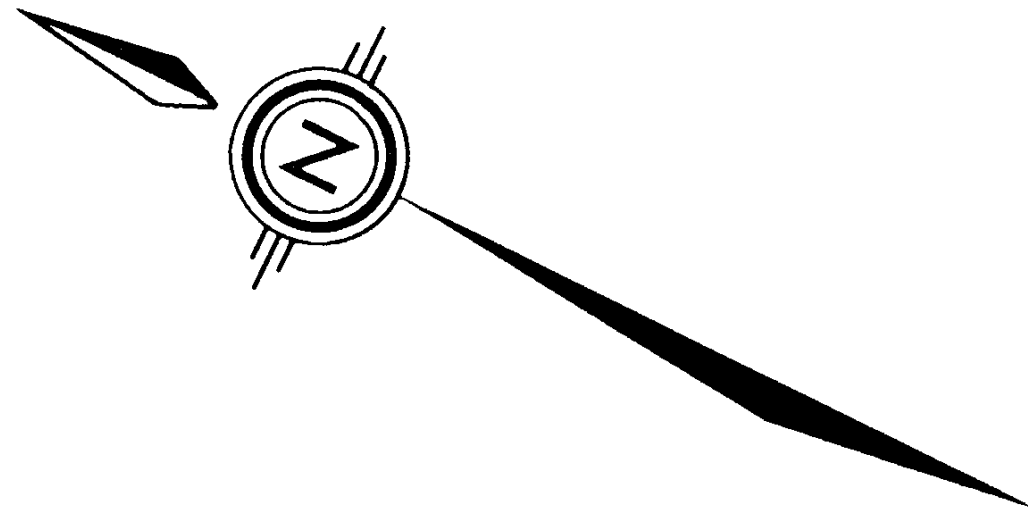
SOIL

GEOCHEMISTRY

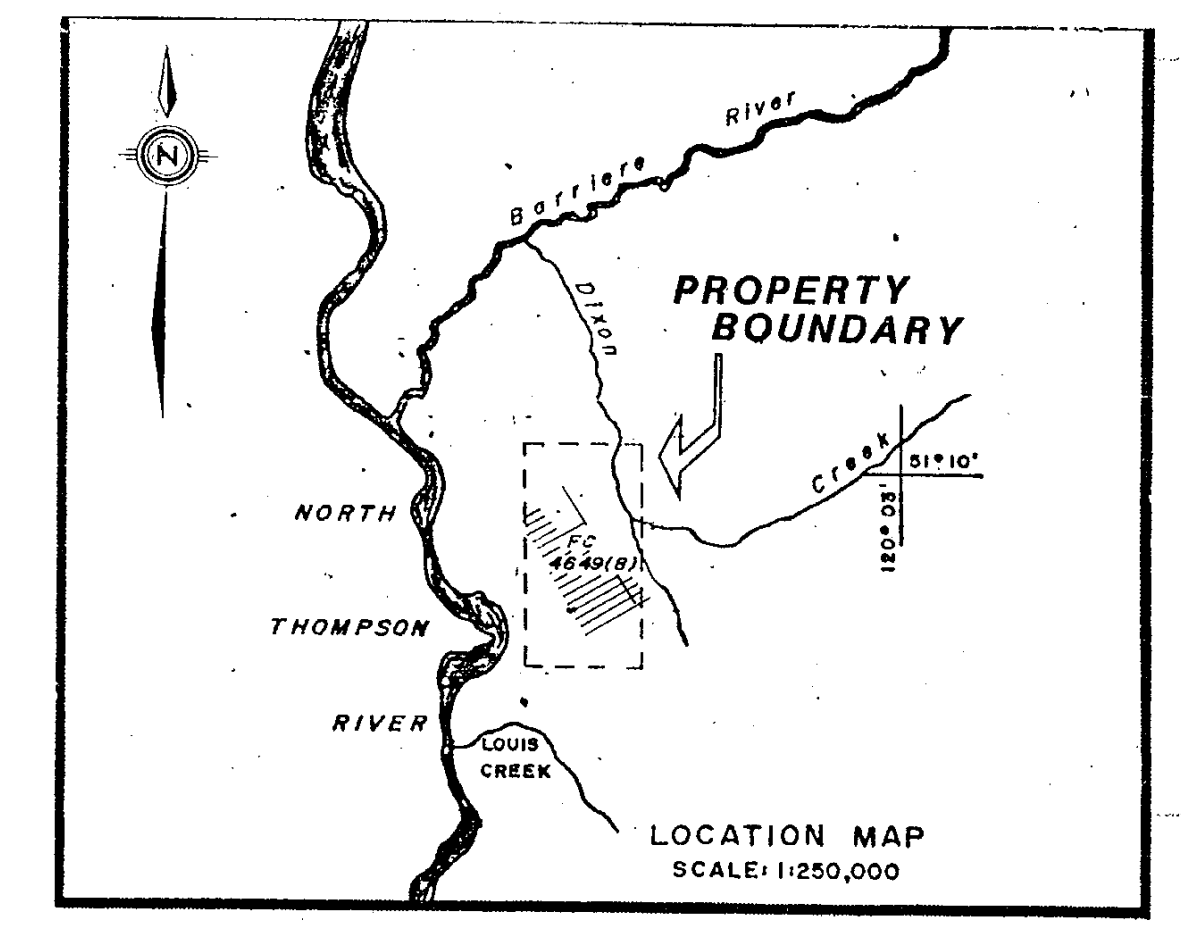
Cu, Zn ppm

0 50 100 250m

SCALE: 1:2500



	L 4100 N	L 3150 N	L 3100 N	L 2150 N	L 2100 N	L 1150 N	L 1100 N	L 0150 N	L 0100 N	L 0150 S	L 1100 S	L 1150 S	L 2100 S	L 2150 S	L 3100 S	L 3150 S	L 4100 S	L 4150 S	L 5100 S	L 5150 S	L 6100 S	L 6150 S	L 7100 S	L 7150 S	L 8100 S	
1100 E																										
BASLINE 0100																										
1100 W																										
2100 W																										
3100 W																										
4100 W																										
5100 W																										
6100 W																										

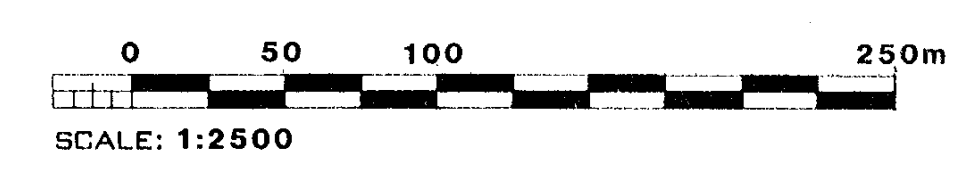


Ag ppm, Au ppb
 ○ Ag > 1.5ppm
 ● Au > 30ppm
 ⑥ Anomalous Zone

NOTE: SEE SHEET 1 FOR CLAIM BOUNDARIES

TECHNICAL BRANCH
 REPORT
 15,248

CORPORATION FALCONBRIDGE COPPER
 MOUNT ARMOUR PROJECT
 SOIL
 GEOCHEMISTRY
 Ag ppm, Au ppb



	DRAWN BY: IP/dm	FIG. NO.: 3
	DATE: SEPT. 1986 N.T.S. 92P/1	