

GEOLOGICAL AND PHYSICAL WORK

MOE 1, MOE 8, MOE 9, MOE 10, MOE 14,

Regina, Britania, Montreal, Toronto

Atlin, M.D.  
NTS 114P/10E

Lat: 59° 36'N  
Long: 136° 33'W

Owner: Falconbridge Limited  
Operator: Falconbridge Limited

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

10,847

part 2 of 4

John Wilson  
Tom Heah  
October 8th, 1982

*John R Wilson*

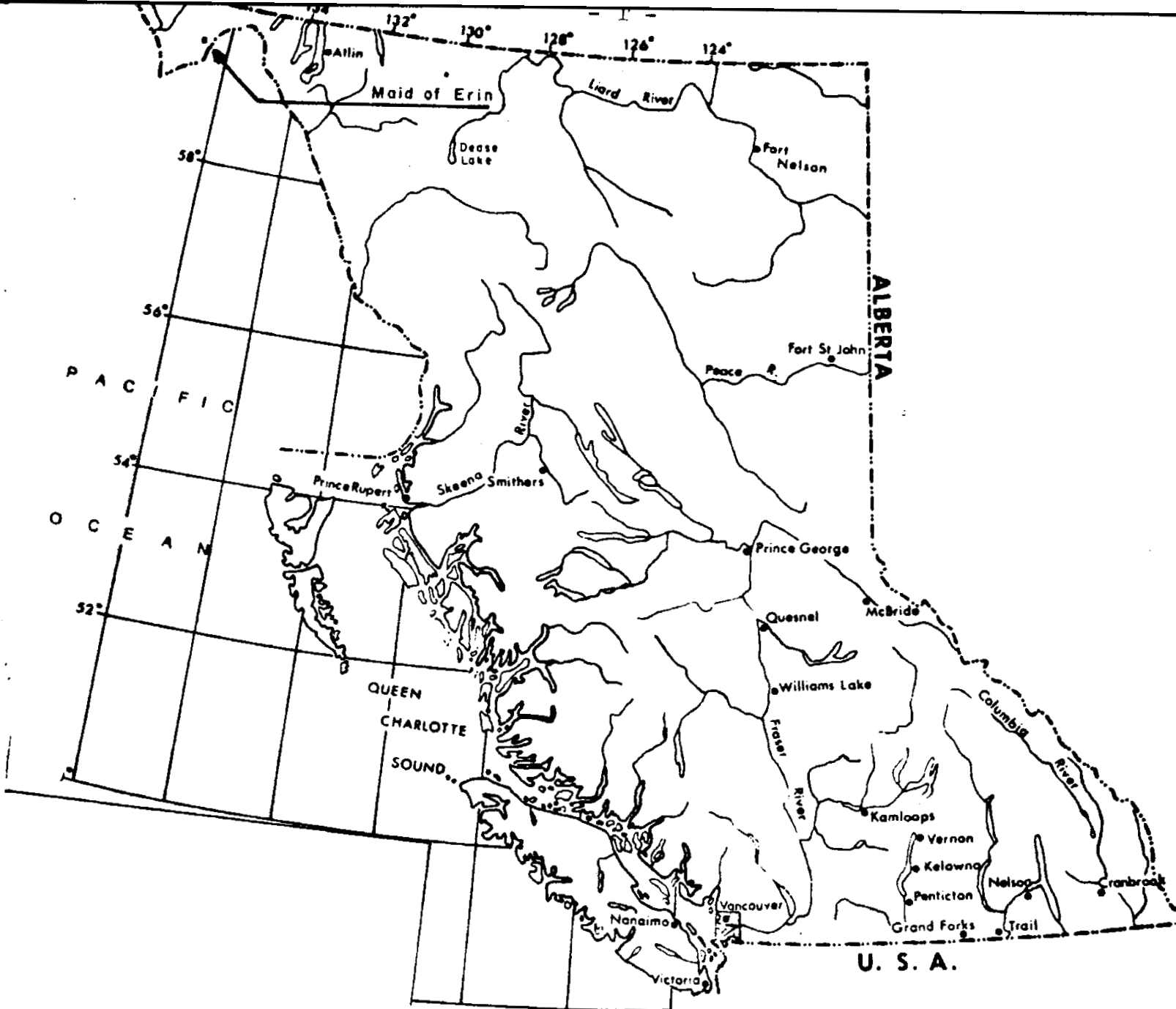
*Tom Heah*

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GEOLOGY (Fig. 015-82-13) .....	in pocket at back

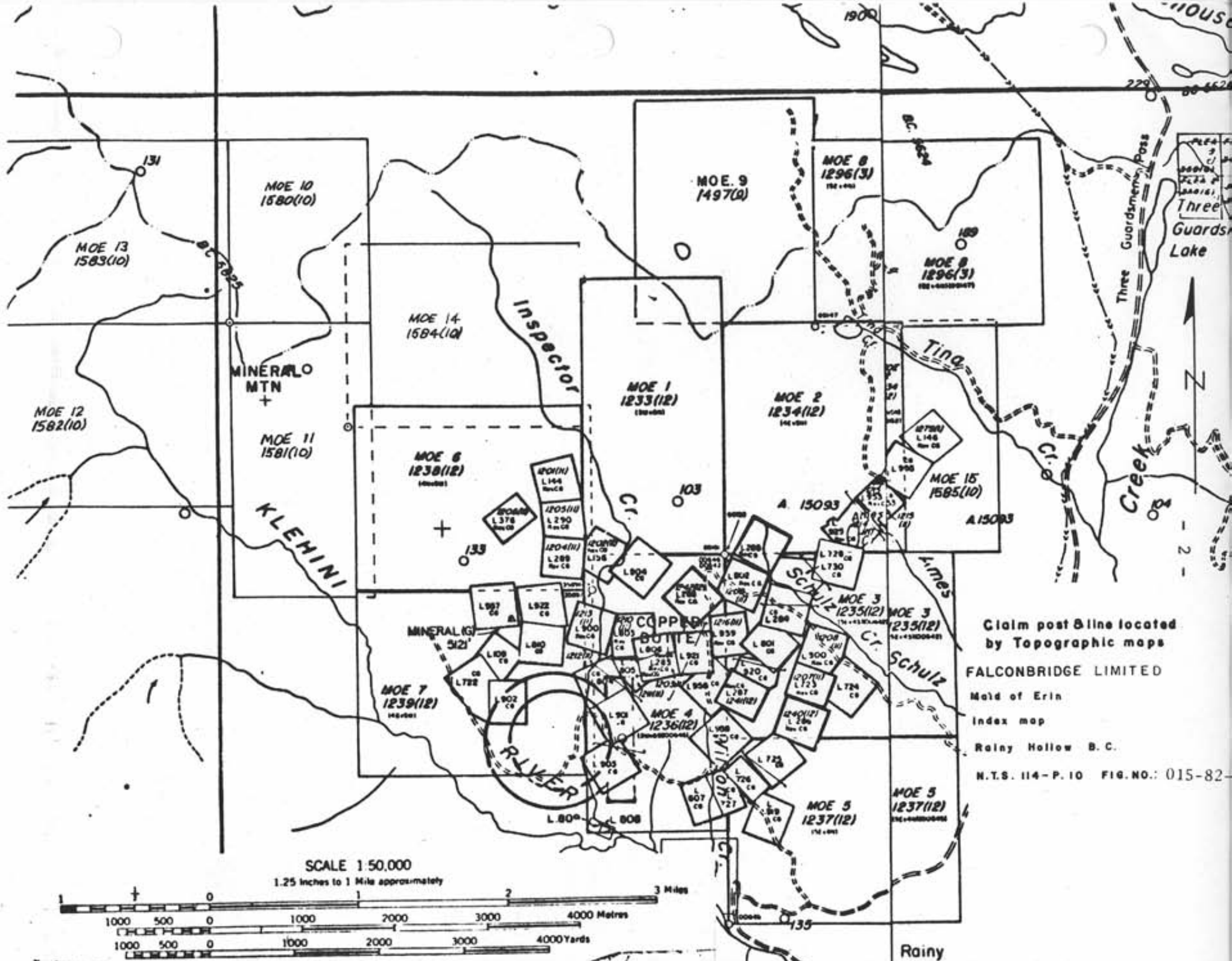


**INDEX MAP**

**BRITISH COLUMBIA**



**SCALE 1: 7 500 000**



MINERALO  
MTN  
+

KLEHINI

INSPECTOR

MOE 1  
1233(12)

MOE 2  
1234(12)

MOE 8  
1296(3)

MOE 9  
1497(0)

MOE 8  
1296(3)

MOE 14  
1584(10)

MOE 6  
1238(12)

COPPER  
BUTTE

MOE 15  
1585(10)

MOE 7  
1239(12)

MOE 4  
1236(12)

MOE 3  
1235(12)

MOE 3  
1235(12)

Claim post & line located  
by Topographic maps

FALCONBRIDGE LIMITED

Maid of Erin

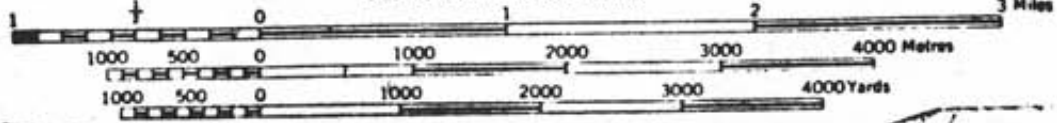
Index map

Rainy Hollow B.C.

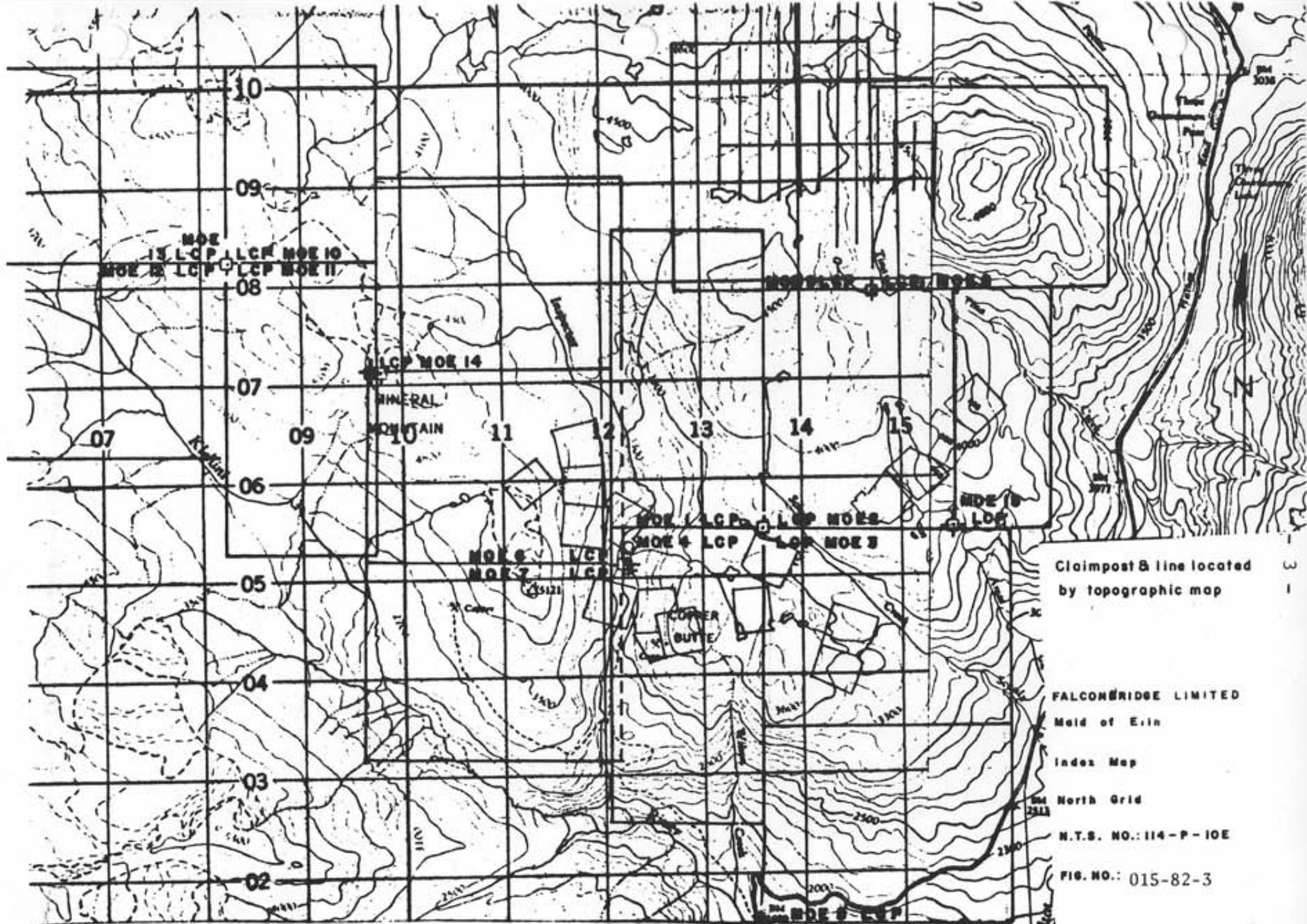
N.T.S. 114-P.10 FIG.NO.: 015-82

SCALE 1:50,000

1.25 inches to 1 Mile approximately



Rainy



Claimpost & line located  
by topographic map

FALCONBRIDGE LIMITED

Maid of Erin

Index Map

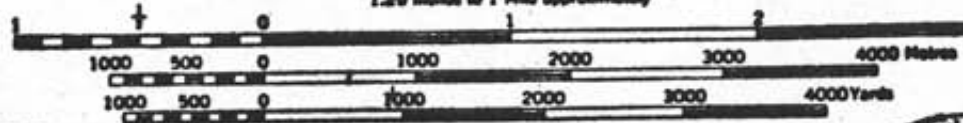
North Grid

N.T.S. NO.: 114-P-10E

FIG. NO.: 015-82-3

SCALE 1:50,000

1.25 inches to 1 Mile approximately



## INTRODUCTION

MOE 1 (18 Units) was staked in 1980. Regina, Britania, Montreal and Toronto are reverted, crown granted two-post claims also applied for 1980. MOE 8 (20 units), MOE 9 (20 units), MOE 10 (12 units), MOE 14 (20 units) were staked in 1981. The above claims are now classified as the MOE 1 group. The current owner and operator is Falconbridge Limited.

The claims are in the Coast Mountains about 16 kilometres northwest from Pleasant Camp on the Alaska-B.C. border. The Haines Highway passes one kilometre east of the property. Old mining exploration roads provide access to MOE 8 and 9.

The claims follow the northern contact of a roof pendant of argillites, quartzites, limestones, and gneisses which hold numerous small skarn occurrences bearing copper, silver, lead and zinc. The intrusive in contact with the roof pendant is mainly quartz diorite but five other intrusive units were found near a minor porphyry mo-cu occurrence discovered in 1969 by Panther Mines Ltd.

In 1981 an IP survey was conducted over the porphyry showing and adjacent ground by Falconbridge Nickel Mines Ltd.

At present the economic potential of the claims, based on 1982 mapping of MOE 9, is low.

## PHYSICAL WORK

### PHOTOGRAMMETRIC MAPPING (figs. 015-82-8&9)

A topographic map was created by Pacific Survey Corporation, Vancouver, B.C. from existing governmental aerial photography. A pencil manuscript map at 1:5000 scale was produced in December 1981 which was then digitized for computer by H.A. Simons (International) Ltd., Vancouver, B.C.

The map area includes three claim groups held by Falconbridge Limited comprising 292 units/reverted crown granted two-post claims.

GEOLOGICAL MAPPING OF M O E 9, 1982

Atlin Mining Division, NTS 114P/10E

Lat: 59° 37'N Long: 136° 32'W

Owner: Falconbridge Ltd.

Operator: Falconbridge Ltd.

Tom Heah

September 23, 1982

## INTRODUCTION

MOE 9 was staked on March 19, 1981, recorded on March 23rd, 1981, and grouped as the MOE 1 Group on November 13, 1981.

The current owner and operator is Falconbridge Limited.

MOE 9 is located in the northern Coast Mountains of B.C., 20 kilometres northwest of Pleasant Camp on the Alaska-B.C. border. It is accessible from the Haines Road by a four-wheel driveable, gravel road following Tina Creek.

In 1969 Panther Mines Ltd. discovered anomalous copper values on the Panther porphyry presently located on MOE 8. These anomalies were drilled but no results are available.

Rocks in the area consist predominantly of leucocratic intrusive rocks, probably of Tertiary age (Chris Dodds, pers. comm, 1982).

Mapping found the area to hold no economic potential.

Mapping of MOE 9 was carried out on a 1:5,000 scale on August 27th, 1982, by B.W. Downing and T. Heah. The area mapped covers 5.5 square kilometres.

A grid put in during the 1981 field season was used for mapping control. It consists of pickets at 100 metres on lines 200m apart.

## RESULTS OF MAPPING

Six units, all intrusive, were defined during mapping:

### Unit 6

Biotite quartz monzonite, is fine to medium grained, fresh, massive and nonmagnetic. It contains minor epidote along fractures. Biotite is sometimes altered to chlorite, and feldspars to epidote-saussurite. It is unmineralized. Minor patches of alaskite (Unit 5) are present.

### Unit 5

Alaskite is fine to medium grained, fresh, massive and nonmagnetic. Minor bleaching and muscovite-sericite alteration is present. It is unmineralized. Minor patches of Unit 6 are present.

### Unit 4

Andesite-dacite dykes are fine grained, fresh, massive, nonmagnetic and unmineralized. These dykes generally follow steep, north-south trending fractures. These locally include xenoliths of granitic host rocks.



RESULTS OF MAPPING (contd)

Unit 3

Feldspar to feldspar quartz porphyry has a rhyolitic to andesitic matrix, is fresh, nonmagnetic, and unmineralized, with euhedral feldspar and rounded quartz phenocrysts.

Unit 2

Hornblende diorite is fine to medium grained, fresh, massive, weakly magnetic and unmineralized.

Unit 1

Quartz diorite is medium grained, hornblendic or biotitic and massive. In parts, it is rusty due to minor pyrite (< 2%). Locally, it contains diorite xenoliths.

STRUCTURE

The area mapped is transected by northerly trending faults; no sense of movement was found. Steep, north-south trending fracturing which is in parts quite dense (up to 130 fractures per metre) is present. The north-south trend of many dykes of Unit 4 seem to be fracture controlled.

ALTERATION

Hydrothermal alteration is minor. Slight bleaching of the rocks is present locally, as is minor alteration to sericite, chlorite, epidote and saussurite. Some epidote is present along fractures.

MINERALIZATION

Mineralization, where present, consists of pyrite and molybdenite in silicified rocks. No copper mineralization was found.

CONCLUSION

Mapping indicates no economic potential.

STATEMENT OF COSTS

Wages, 1 geologist August 27	\$ 125.00
Wage 1 geologist August 27	83.00
B & R ( 2 man days @ \$18.00/day)	36.00
Supply costs (2 man days @ \$15.00/man/day)	30.00
Truck expenses (1 day @ \$30.00/day)	30.00
Drafting and Report writing (2 man days September 20 & 22 @ \$83.00/day)	166.00
Production of Report	<u>50.00</u>
TOTAL GEOLOGY COST	\$ <u>520.00</u>

Topographic base map prepared by Pacific Survey December 16/81	\$ 5,750.00
Cost of digitizing map for computer by H.A. Simons(International) Ltd. April 21/82	1,959.00
Cost of one mylar plot	<u>400.00</u>
Total	\$ 8,109.00

The map area includes three claim groups held by Falconbridge Limited comprising 292 units and reverted crown granted two-post claims.  
The present assessment report is for the MOE 1 group (94 units and reverted c.g.s) or 32.2 % of the total

32.2% of \$8,109.00 =	\$2,611.10
Production of Report	<u>150.00</u>
TOTAL PHYSICAL COST	\$ <u>2,761.10</u>

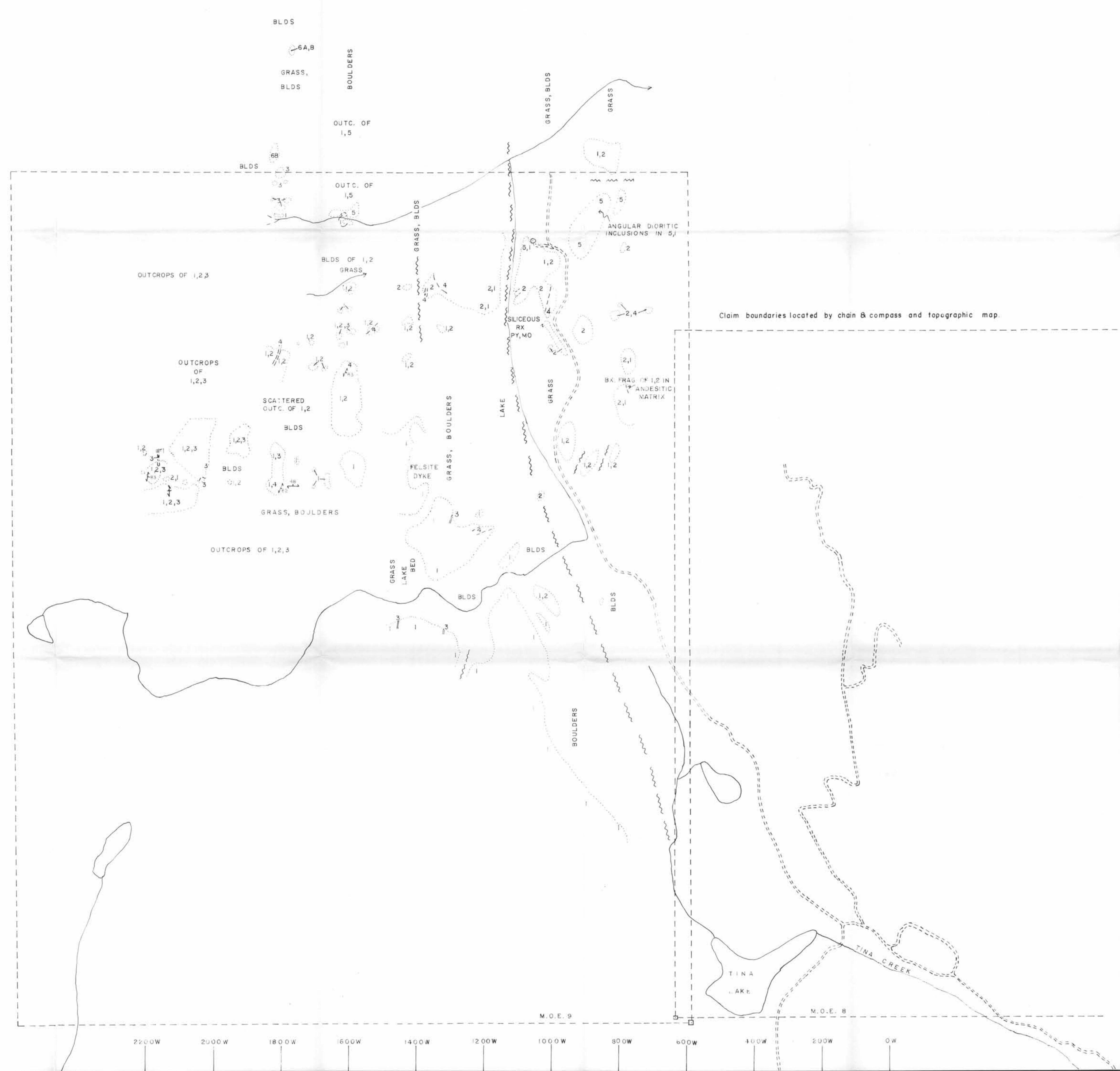
STATEMENT OF QUALIFICATIONS

John R. Wilson graduated from the University of British Columbia in 1972 with a B.Sc. (honours) in Geology. He has worked for the Falconbridge Nickel Mines Limited group of companies and Falconbridge Limited since graduation as a Minerals Exploration Geologist.

STATEMENT OF QUALIFICATIONS

Tom Heah graduated from U.B.C. in 1982 with a B.Sc. (honours) in geology. He has worked for Falconbridge Limited since graduation, and was supervised by B.W. Downing and J.R. Wilson during the project.

1500 N  
1400 N  
1300 N  
1200 N  
1100 N  
1000 N  
900 N  
800 N  
700 N  
600 N  
500 N  
400 N  
300 N  
200 N  
100 N  
B.L. ON  
100 S  
200 S  
300 S  
400 S  
500 S  
600 S  
700 S  
800 S  
900 S  
1000 S



LEGEND

- 6 Biotite Quartz Monzonite. Fine to med. grained, fresh, massive, non magnetic, minor ep. along fractures; unmineralised; minor silite to chlorite alteration and epidote/saussurite alteration of feldspars.
- 5 Alaskite. Fine to med grained, massive, non magnetic, minor muscovite/sericite alteration, unmineralised, minor bleaching; patches of (1).
- 4 Andesite-Dacite Dykes. Fine grained, massive, fresh, non magnetic, unmineralised.
- 3 Feldspar to Feldspar Quartz Porphyry. Rhyolitic to andesitic matrix, fresh, non magnetic, unmineralised.
- 2 Hornblende Diorite. Fine to med. grained, fresh, weakly magnetic massive, unmineralised.
- 1 Quartz Diorite. Med. grained, hornblende (6A) or biotitic (6B), massive, in parts rusty, contains diorite xenoliths in parts, slightly pyritic (<2%).

SYMBOLS

- Contact known, assumed
- Outcrop pattern
- Fracture
- Fault
- Creek
- Road
- Drill hole
- Legal corner post
- - - Claim boundary

ABBREVIATIONS

- BLDS Boulders
- BX Breccia
- FRAG Fragments
- OUTC. Outcrop
- RX Rocks
- MO Molybdenite

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

10,847 part 2 of 4



FALCONBRIDGE NICKEL MINES LIMITED		
PROPERTY:	PROJECT NO.:	
MAID OF ERIN		
LOCATION:	PANTHER GRID	
TYPE OF MAP:	GEOLOGY	
WORKING PLACE:	BASED ON: BWD, TH	
DATE OF WORK: AUG 27/82	MAP REF. NO.:	FIG. NO.:
DRAWN BY: TH		015-82-13
DATE:	N.T.S. NO.:	

2200W 2000W 1800W 1600W 1400W 1200W 1000W 800W 600W 400W 200W 0W

M.O.E. 9 M.O.E. 8