

825475

Diamond Drill Report
Holes BAR 1-4
Bar Property (SC Group)

Kamloops Mining Division
NTS 82M/5W

Owner & Operator
Corporation Falconbridge Copper
6415 - 64th Street
Delta, B. C. V4K 4E2

Graeme W. Evans
March, 1987

Table of Contents

	<u>Page</u>
Introduction	1
General	1
Location and Access	1
Physiography	1
Property and Ownership	1
History	4
Summary of Work Done	4
 Geology	 4
 Purpose	 5
 Results	 5
 Conclusions	 5
 Itemized Cost Statements	 6
 Statement of Qualifications	 7
 Appendix I (Logs of BAR 1-4 with geochemistry)	

Tables

Table 1	Claim Information	4
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Table of Figures

Figure 1	Location Map	2
Figure 2	Claim Configuration	3

Table of Maps (In Pockets)

Map 1	SC North Geology and Drill Hole Locations
Map 2	SC South Geology and Drill Hole Locations
Map 3	BAR 1 & 2 Cross Section
Map 4	BAR 1 & 2 Lithogeochemistry
Map 5	BAR 3 Cross Section
Map 6	BAR 3 Lithogeochemistry
Map 7	BAR 4 Cross Section
Map 8	BAR 4 Lithogeochemistry

Introduction

General

Corporation Falconbridge Copper owns in excess of 500 claim units in the Barriere area of the Kamloops Mining Division, British Columbia. For administration purposes these properties have been divided into several claim groups. This report presents the results of diamond drilling carried out in October 1986 on the SC Group.

Location and Access (Figure 1)

The claim group is located on a plateau between the North Thompson River and North Barriere Lake. The group is bounded by latitude $51^{\circ}16'$ and $51^{\circ}18'$ and longitude $119^{\circ}58'$ and $120^{\circ}02'$ (Figure 1).

Access is available from Highway 5 via the Barriere Lakes Road and smaller logging access roads from there.

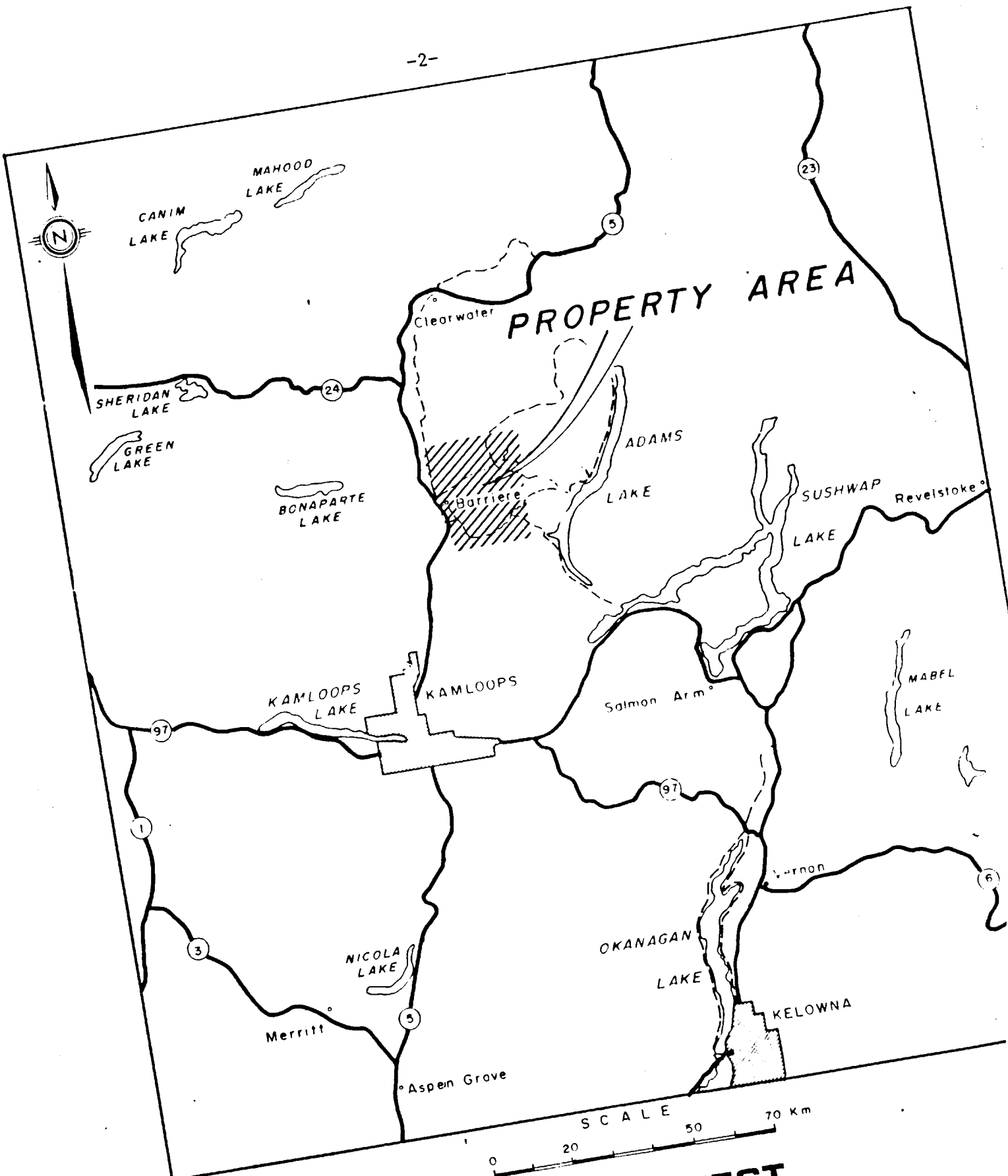
Physiography

The property lies between the elevations of 1000 and 1500m on the eastern edge a plateau with steeply incised creeks draining the level top. The area is covered by heavy spruce forest with active logging in many areas.

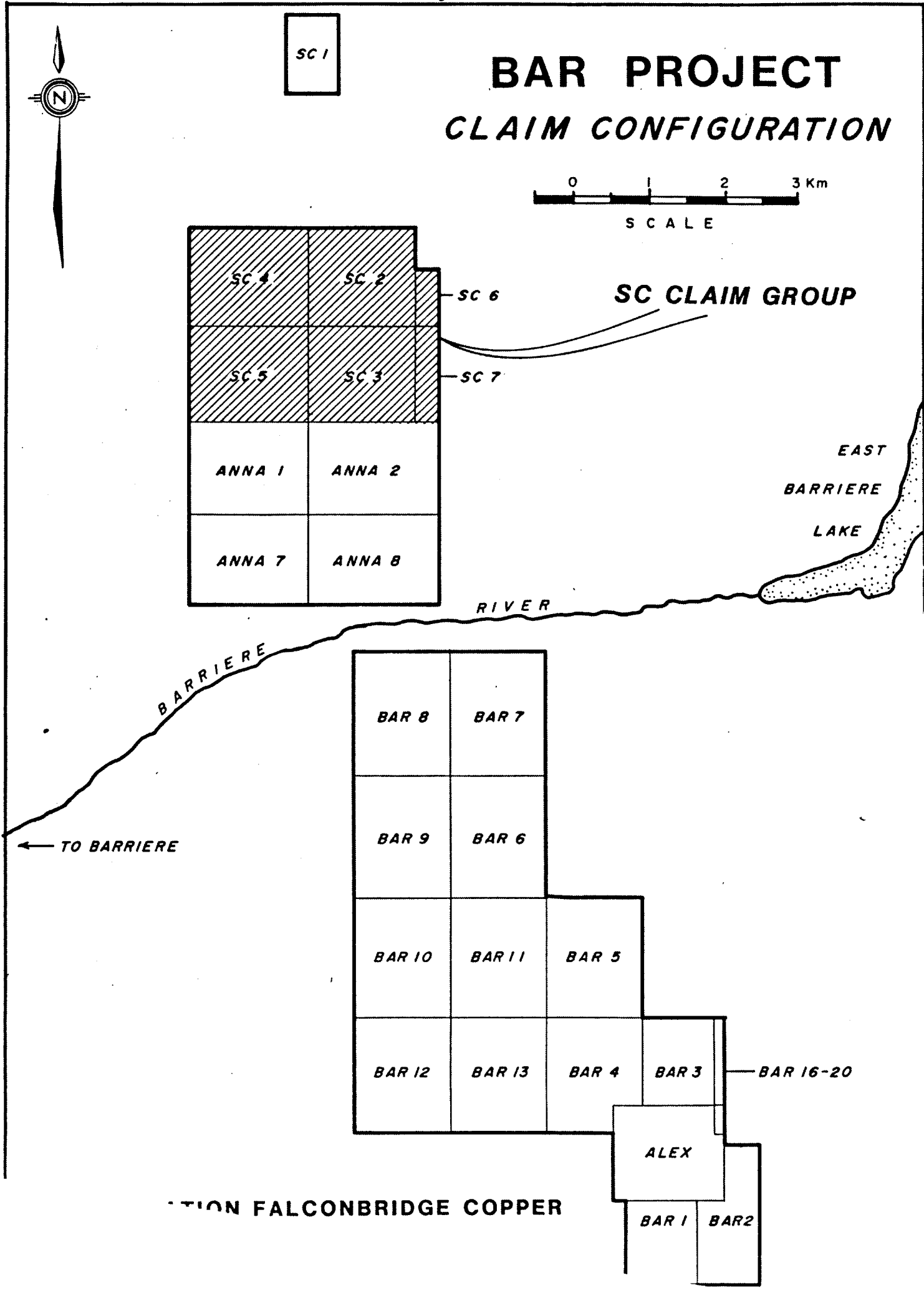
The climate is moderate with temperatures ranging from -30°C in the winter to $+30^{\circ}\text{C}$ in the summer. Rainfall is moderate in the area of the property with a snow free period only from June to October.

Property and Ownership (Figure 2)

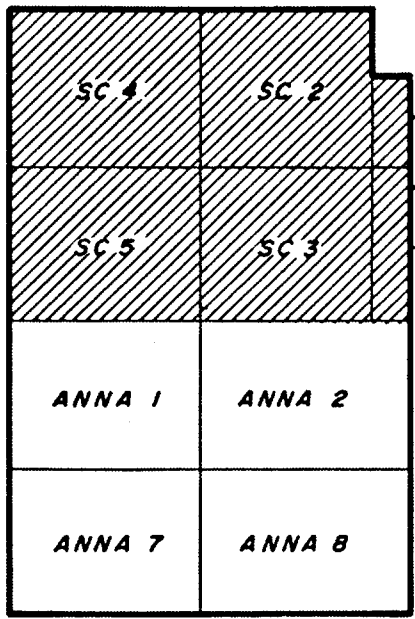
Figure 2 shows the configuration of the SC 2 Group. Table 1 summarizes the pertinent claim data. The claims are all 100% owned and operated by CFC.



**BAR PROJECT
- LOCATION MAP -**



BAR PROJECT CLAIM CONFIGURATION



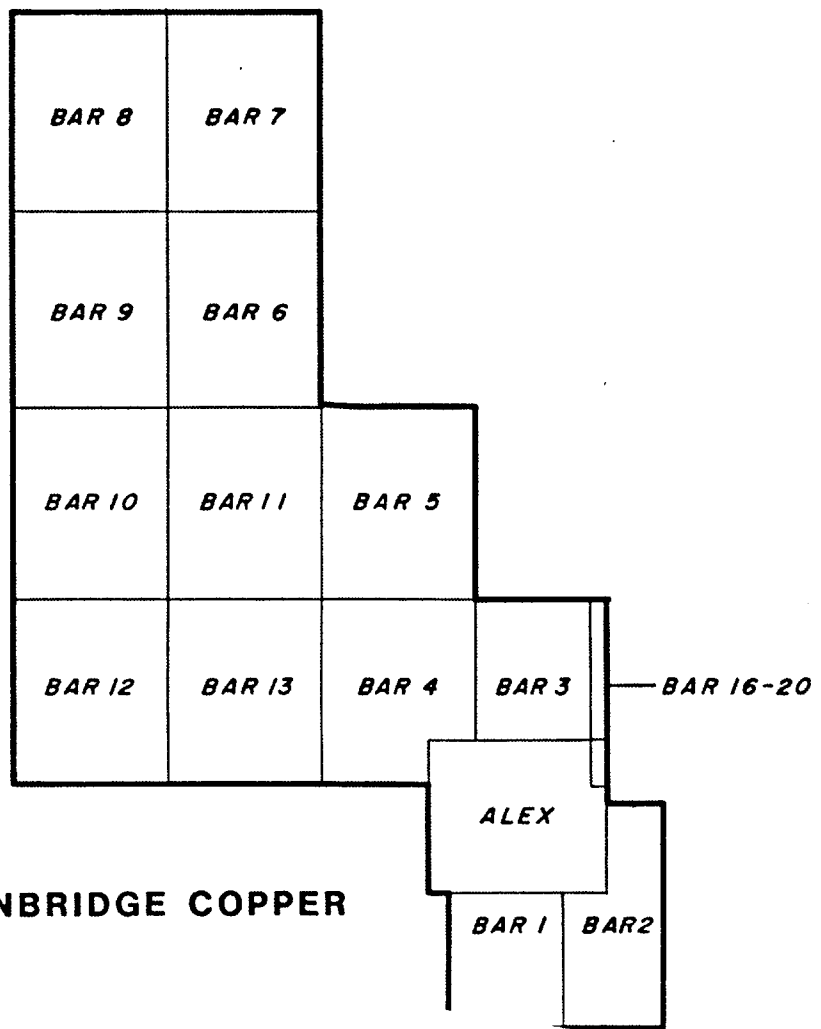
SC CLAIM GROUP

EAST
BARRIERE
LAKE

RIVER

BARRIERE

← TO BARRIERE



STATION FALCONBRIDGE COPPER

Table 1

<u>Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Month</u>
SC2	5561	20	March
SC3	5562	20	March
SC4	5640	20	May
SC5	5641	20	May
SC6	5906	3	October
SC7	5907	6	October

History

The SC claims were acquired in the spring and fall of 1984 to cover favourable stratigraphy indicated by reconnaissance mapping and sampling. They contain stratigraphy correlative with the Chu Chua massive sulphide deposit 8kms to the north as well as felsic volcanic centres. The only evidence of previous work appears to be an airborne (Dighem) survey flown by Craigmont in 1978.

Summary of Work Done

From October 15th to October 29th 1986 four holes were drilled for a total of 518.91m, by J. T. Thomas Diamond Drilling Ltd. These were logged and split for analysis and the results are provided herein.

Geology

O.F. 53 (Schiarizza) identifies the volcanics and sediments on the claim group as belonging to the (Devonian - Permian) Pennell Formation. The SC claim group has a series of felsic volcanic centres with accompanying rhyolite flows and breccias interbedded with marine sediments. These strike 140 to 160° in the area of the drilling and dip 50 to 80° to the east.

Purpose

Drilling was focussed around the felsic centres to test zones for potential massive sulphides. Mapping and lithogeochem sampling had suggested the presence of favourable horizons which, combined with buried conductors from a MaxMin II survey, provided drill hole targets.

Results

The drill holes generally confirmed the geology inferred from surface mapping. The MaxMin II conductors turned out to be graphitic argillites but the holes intersected complex rhyolite flows and tuffs with significant alteration and enhanced gold values. Bar 3, which was the only hole to actually intersect a felsic dome (due to abandonment of Bar 4 in a fault), returned significant gold and silver values. These included a 13.98m section averaging 242 ppb Au and a 2.52m section averaging 4.45 gm/T Au. This latter section included 30cms of massive pyrite assaying 18 g/T Au and 134 g/T Ag. The quartz-feldspar porphyry rhyolite dome is silicified and sericitized with an extensive quartz-pyrite stockwork.

Conclusions

The area is confirmed as being a favourable environment for massive sulphide deposits and further drilling is recommended. No syngenetic massive sulphides have yet been found but excellent alteration was encountered. Gold mineralization in the quartz-pyrite stockwork should be given exploration priority and further sampling and drilling should be undertaken to better understand it's significance.

Itemized Cost Statement

Direct Drilling Costs (J. T. Thomas Diamond Drilling)

Bar 1	\$14,580.10
Bar 2	\$12,712.45
Bar 3	\$14,284.00
Bar 4	\$9,015.20

Total Direct Charges \$50,591.75

Preparation of Drill Roads and Pads

(Blackhawk Diamond Drilling)

D-8 30 hrs @ \$105 per hr \$ 3,150.00

Supervision and Core Logging

G. Evans 15 days @ \$250 per day \$ 3,750.00
(October 15 - October 29, 1986)

Core Splitting and Sampling

M. Clayton 15 days @ \$150 per day \$ 2,250.00
(October 15 - October 29, 1986)

Accommodation and Food - 30 days @ \$20 per day \$ 600.00

Truck Rental 15 days @ \$50 per day \$ 750.00

Analytical Costs (Min-En Labs, N. Vancouver)

81 Lithochemical samples (15 elements) @ \$20/sample \$ 1,620.00

94 Geochemical samples (Cu,Zn,Pb,Ag,Au) @ \$12/sample \$ 1,128.00

Report Preparation

Drafting 2 days @ \$150 per day \$ 300.00

Interpret. & Report 2 days G. Evans @ \$250 per day \$ 500.00

Miscellaneous (materials, copying, typing etc.) \$ 150.00

TOTAL \$64,789.75