

VICTORIA

87-684-16366



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) Geophysical	TOTAL COST \$1,200.20
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AUTHOR(S) DAMIR CUKOR SIGNATURE(S) [Signature]

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED April 21, 1987 YEAR OF WORK 1987

PROPERTY NAME(S) KING MIDAS

COMMODITIES PRESENT Ag, Cu, Au

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN 92F-115

MINING DIVISION Vancouver NTS 92F/9E, 92G/12W

LATITUDE 49°40' LONGITUDE 124°00'

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units), PHOENIX (Lot 1706); Mineral Lease M 123, Mining or Certified Mining Lease ML 12 (claims involved)]:  
V 1, 2

FILMED

OWNER(S) (1) Keystone Exploration Ltd.

(2) GEOLOGICAL BRANCH  
ASSESSMENT REPORT

MAILING ADDRESS 209-475 Howe St., VANCOUVER, B.C. V6C 2B3

OPERATOR(S) (that is, Company paying for the work) (1) as above

(2) 16,366

MAILING ADDRESS as above

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):  
A skarn contact zone <sup>occurs</sup> between Jarvis Group (volcanics, calcareous <sup>Upper Cretaceous</sup> sediments, chert, argillite) and Coast Intrusions. Mineralization <sup>consists</sup> of native copper and chalcopryite.

REFERENCES TO PREVIOUS WORK

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**KEYSTONE EXPLORATIONS LTD.**

V1 and V2 Mineral Claims

Sakinaw Lake Area, B. C.

1. INTRODUCTION

A VLF-EM survey was performed on the V1 and V2 claims between the 14th and 16th of April, 1987, by NVC Engineering Ltd. at the request of Keystone Explorations Ltd., the owners of the claims. The survey was performed in the area of the old showings, utilizing the same grid as was used for the magnetic survey in 1984.

2. PROPERTY, LOCATION and ACCESS

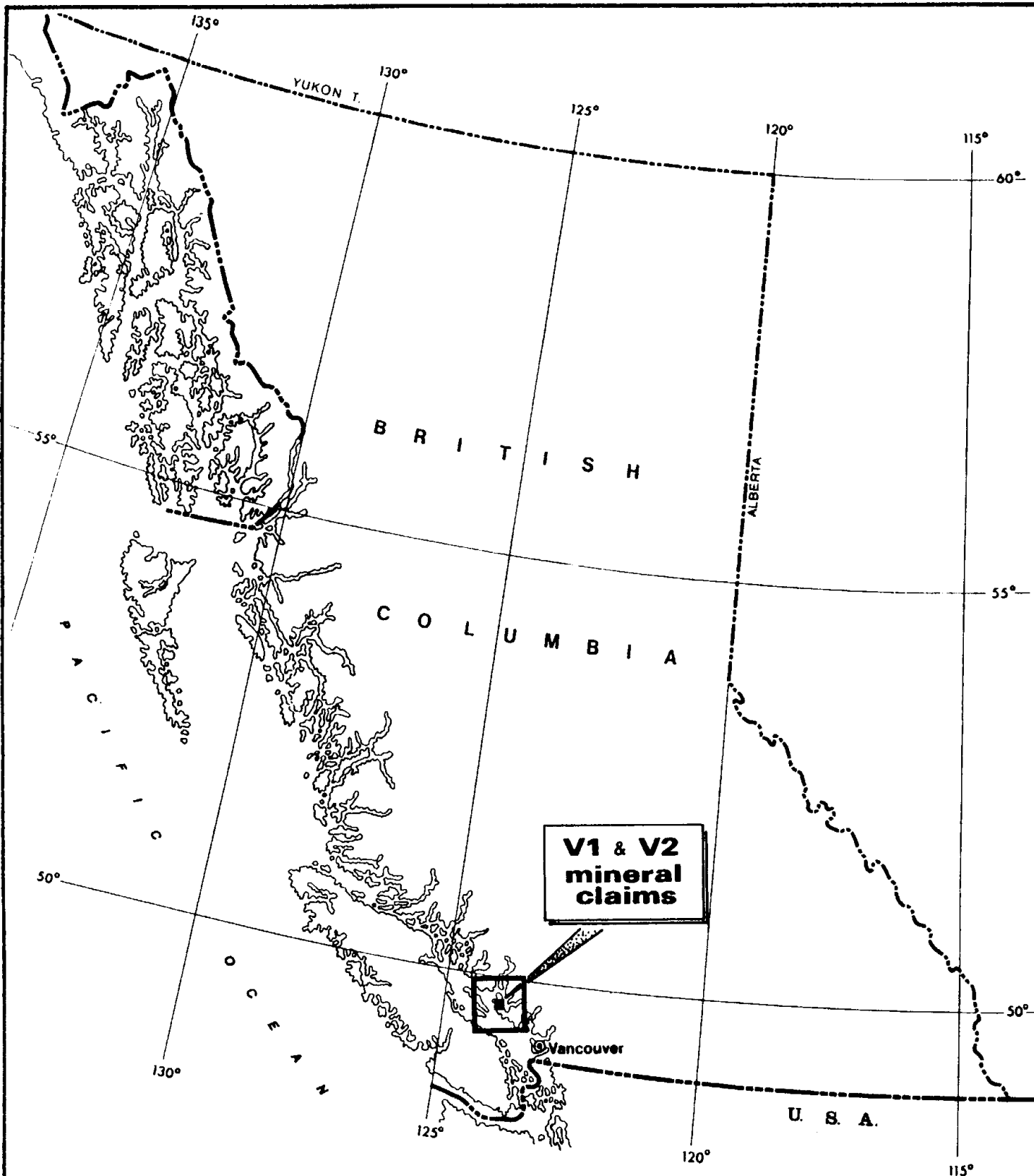
Two full size mineral claims comprise the property. The claims, record numbers and anniversary dates are as follows:


<u>Claim</u>	<u>Record Number</u>	<u>Anniversary Date</u>
V1	26125	April 17
V2	26126	April 17

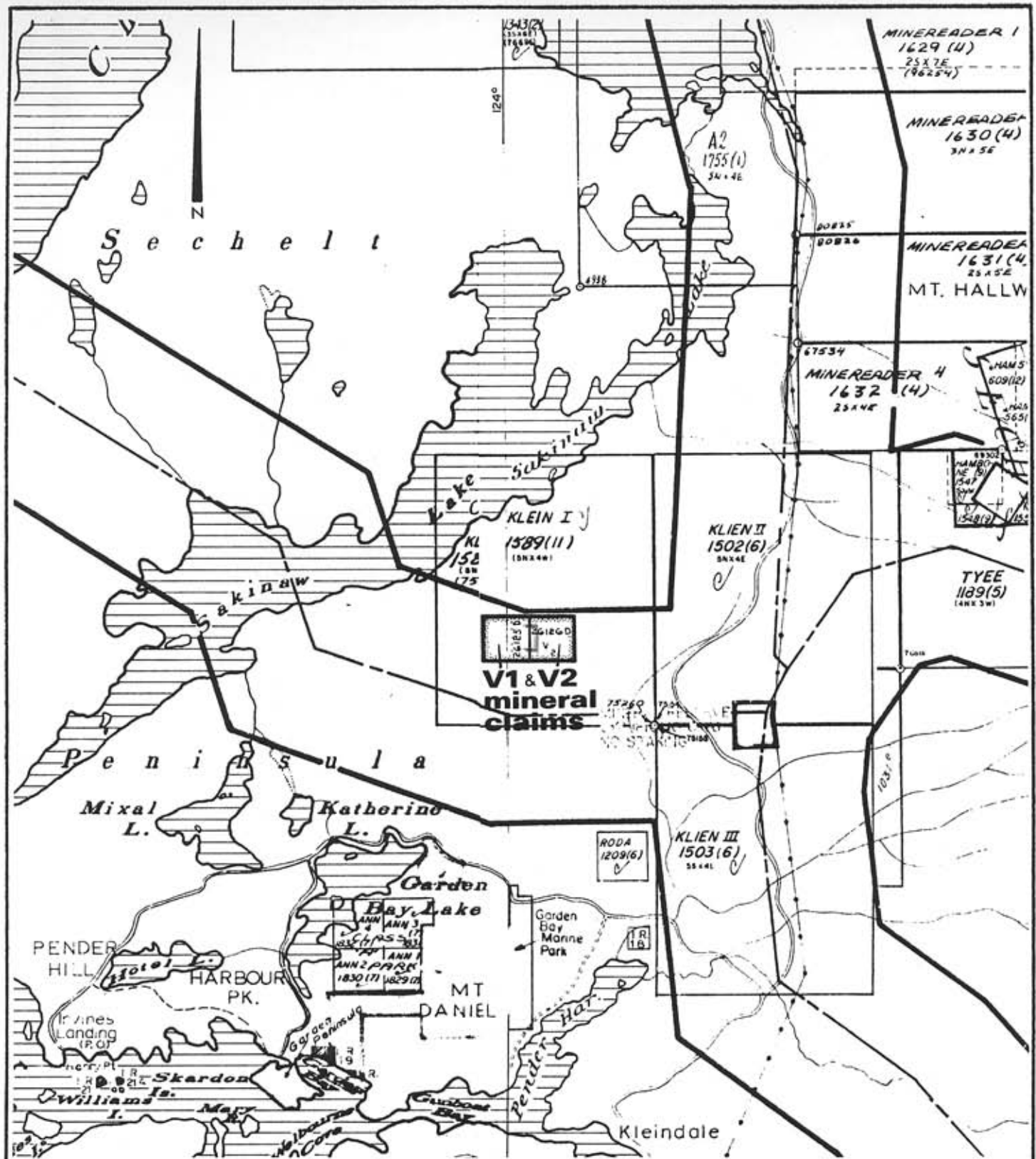
The two post system was used for location of the claims. The claims are owned 100% by Keystone Explorations Ltd.

The property is located on the Sechelt Peninsula, on the southeastern side of Sakinaw Lake, near Pender Harbour. It is in the Vancouver Mining Division and within 92 F/9 E and 92 G/12 W. The centre of the property is at approximately latitude 49° 40' N and longitude 124° 00' W.

Access to the claims is gained by driving 73 kilometres northwest along Highway 101 from Gibsons Landing, to the turnoff to Irvines Landing, then 3.5 kilometres along this paved road to a turnoff to the north and 5 kilometres along this dirt road, past a landfill site.



<b>KEYSTONE EXPLORATIONS LTD.</b>		
<b>V1 &amp; V2 mineral claims</b>		
<b>LOCATION MAP</b>		
VANCOUVER M.D., B.C.		NTS 92 F-9E, 92 G-12W
D. CUKOR, B.Sc. - NVC ENGINEERING LTD. - VANCOUVER, B.C.		
DATE: Aug. 1987	SCALE:  100 Miles	FIG. 1



**KEYSTONE EXPLORATIONS LTD.**

**V1 & V2 mineral claims**

**CLAIM MAP**

VANCOUVER M.D., B.C.

NTS 92 F-9E, 92 G-12W

D. CUKOR, B.Sc. - NVC ENGINEERING LTD. - VANCOUVER, B.C.

DATE: Aug. 1987

SCALE: 0 ——— 1 km

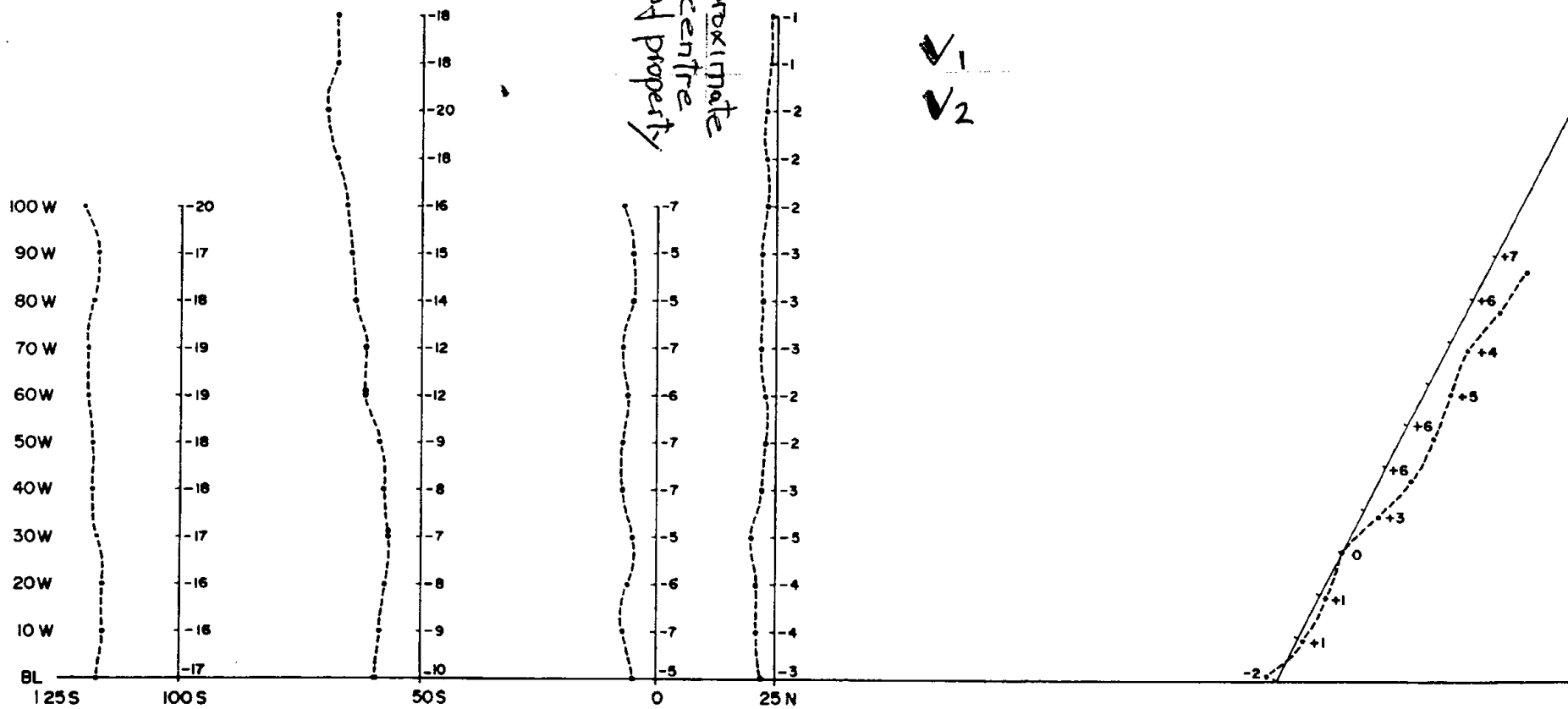
FIG. 2

### 3. GEOLOGY

Regional geology, as mapped by W. R. Bacon, B.C.D.M., Bull. 39, 1957, comprises of volcanics, calcareous sediments and chert and argillite of the Jarvis Group, quartz diorite and granodiorite of the Coast Intrusion and a quartz feldspar porphyry.

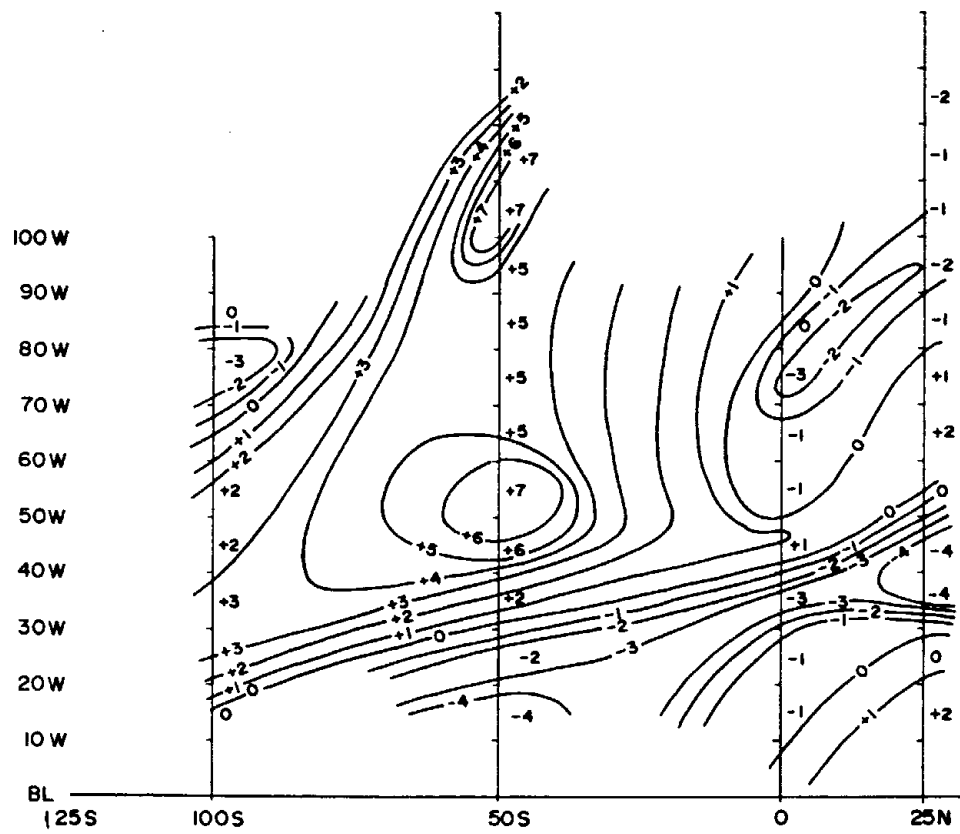
Five kilometres to the east of the property is found the Cambrian Chieftain, a copper skarn deposit.

The V mineral claims were located so as to cover the contact zone between granodiorite and the Jarvis Group. This contact zone is characterized by K-feldspar, epidote, sericite, calcite, dolomite and chlorite. Mineralization consisting of chalcopyrite and native copper and of pyrite magnetite and specularite of the replacement copper skarn variety, occurs in this contact skarn zone. There are four old cuts on the property area, now partly caved and grown over.



<b>KEYSTONE EXPLORATIONS LTD.</b>		
VI & V2 mineral claims PROFILES		
VANCOUVER M.D., B.C.		NTS 92 F-9E, 92 G-12W
D. CUKOR, B.Sc. - NVC ENGINEERING LTD. - VANCOUVER, B.C.		
DATE: Aug. 1987	SCALE:	FIG. 3





<b>KEYSTONE EXPLORATIONS LTD.</b>			
VI & V2 mineral claims FRASER FILTER PLAN			
VANCOUVER M.D., B.C.		NTS 92 F-9E, 92G-12 W	
D. CUKOR, B.Sc. - NVC ENGINEERING LTD. - VANCOUVER, B.C.			
DATE:	Aug. 1987	SCALE:	0 10 20m
			FIG. 4

#### 4. VLF-EM ELECTROMAGNETIC SURVEY

The purpose of the VLF-EM survey was to test if the mineralized zone responded to this geophysical method, and secondly, to attempt to correlate any response to the existing magnetic and geologic data.

##### 4.1 FIELD METHOD

The survey utilized the grid established in 1984. This grid was rehabilitated and extended and expanded somewhat. The grid baseline runs along the road; grid lines are at 50 metre intervals and stations are every 10 metres.

The instrument used for the survey was a Sabre VLF-EM, model 27, serial number 306. The Sabre instrument has a built-in selection of 4 stations: Seattle, Hawaii, Annapolis and Maryland. The station selected was Hawaii since it lies more or less on trend of the showing structure.

The parameters measured were the dip of the electromagnetic field and the field strength.

##### 4.2 DATA PRESENTATION

Two survey plans are presented in this Report: Figure 3 - Profiled Plan of Dip Angle Data and Figure 4 - Contour Plan of Fraser Filtered Dip Angle Data. Both plans are in the scale of 1:1000.

### 4.3 DISCUSSION OF RESULTS

Dip angle measurements of the electromagnetic field range from  $-20^{\circ}$  to  $+7^{\circ}$ . There exists a general pattern to the readings. Negativity of the dip angles increases westward within the grid and positivity, eastward. This result was completely unexpected, since the grid was designed with the baseline roughly paralleling the known strike of the main structure, and the grid lines roughly perpendicular to it. Such variability of dip was expected along the lines and not across them. Several factors, however, could account for the pattern the data took on. Firstly, it is possible that strong cross-structures are responding to the method. Secondly, topographical effects may be responsible, or a combination of the two. A deeply incised and steep-sided gully runs roughly parallel and to the east of 25 N. An attempt was made to minimize the topographic and cross-structural effects by Fraser Filtering. This attempt seems to suggest a structure running roughly north-south from 100 S 30 W, through 50 S 110 W and then off the grid.

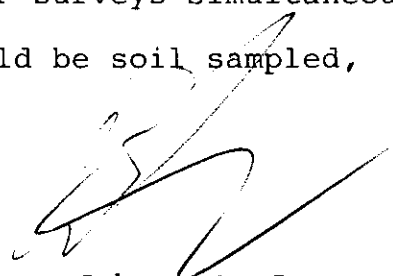
## 5. SUMMARY and RECOMMENDATIONS

On April 14th to 16th, 1987 a VLF-EM survey was performed. The old grid, previously used for a ground magnetic survey, was utilized after being rehabilitated and extended. The station used was Hawaii.

The VLF-EM survey produced some interesting results. A general pattern is noted on Figure 3, Dip Angle of EM Field, with high negative values on the south side of the grid and positive values on the north side, suggesting an east-west structure. The Fraser Filter reveals a strong north-south anomaly.

Since the Hawaii station selected for the survey is more likely to identify north-south structure, it is recommended to use the Seattle station, which is more suited to identification of north-south structures. A more favourable solution would be to expand the grid to cover a wider area, past 140 W and further to the north, south and east as well. The lines should be set at 50 metre spacing and brushed out. It is recommended that the Scintrex IGS-2 which performs ground magnetic and up to three station VLF surveys simultaneously, be used. As well, this expanded grid should be soil sampled, with samples run for copper and gold.

October, 1987



D. Cukor, B. Sc.  
NVC ENGINEERING LTD.

COSTS OF VLF-EM SURVEY

Field Work

D. Cukor, Geologist 2 days @ \$250/day \$ 500.00

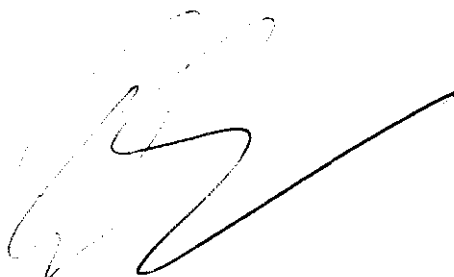
Expenses:

Vehicle Rental 2 days @ \$50/day 100.00  
Gasoline 32.00  
Food and Lodging 68.20

Report:

D. Cukor, 1 day @ \$250/day 250.00  
Drafting, 9 hrs. @ \$20/hr. 180.00  
Printing, binding 70.00

TOTAL \$ 1,200.20



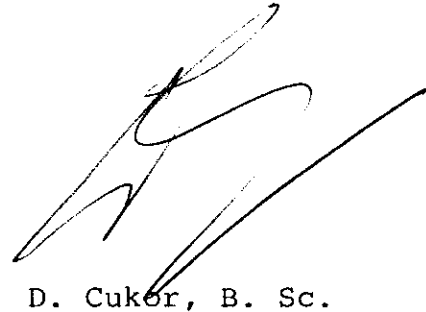
D. Cukor, B. Sc.  
NVC ENGINEERING LTD.

October, 1987

## CERTIFICATE

I, DAMIR CUKOR, of 976 East 26th Avenue, Vancouver,  
British Columbia, DO HEREBY CERTIFY that:

1. I graduated from the University of British Columbia in 1984 as a Bachelor of Science in Geology;
2. Since 1983 I have been employed as a geologist with NVC Engineering Ltd.;
3. I have worked in the field of exploration geology and geophysics for 11 seasons and have held positions of responsibility since 1982;
4. I performed and/or executed work as documented in this Report.



D. Cukor, B. Sc.  
NVC ENGINEERING LTD.

October, 1987