

LOG NO: 0102
ACTION:
FILE NO:

GEOPHYSICAL REPORT

on the

EAGLE 1,2, and 3 CLAIMS  
(SUMMIT PROPERTY)

NELSON MINING DIVISION, BRITISH COLUMBIA

NTS M82F/6E

LAT 49° 21'N      LONG 117° 00'W

for

<p><b>SUB-RECORDER RECEIVED</b></p> <p><b>DEC 27 1989</b></p> <p>M.R. # ..... \$..... <b>VANCOUVER, B.C.</b></p>
--

NUGGET MINES LTD.  
#507-850 W. Hastings St.,  
Vancouver, B.C. V6C 1E1

by

D.G. ALLEN, P. ENG., (B.C.)

Dec. 22, 1989

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
19,507  
Vancouver, B.C.

TABLE OF CONTENTS

INTRODUCTION	1
RECOMMENDATIONS	1
CLAIM DATA	2
HISTORY	2
GEOLOGY - REGIONAL	3
- LOCAL	3
1989 SELF POTENTIAL GEOPHYSICAL SURVEY	3
CONCLUSION	3
REFERENCES	
AFFADAVIT OF EXPENSES	
CERTIFICATE	

ILLUSTRATIONS

Figure 1 - Location Map	1:250,000	After Page	1
Figure 2 - Claim Map	1:50,000	After Page	2
Figure 3 - Self Potential Survey	1:5,000	After Page	3

## INTRODUCTION

The Summit Claim Group, which includes the Eagle 1, 2, and 3 claims, is located in the Nelson Mining Division approximately 8 kilometres northeast of Ymir and 18 kilometres southeast of Nelson, B.C. The group comprised 51 claim units when the work was performed. The property is accessed by four-wheel drive logging roads from the south via Huckleberry Creek through Ymir or from the north via the Clearwater Creek road. See Figure 1.

The property lies at elevations ranging from 1200 to 1700 metres. The property is moderately steep and is timbered with cedar, fir, hemlock, larch and thick underbrush.

The Ymir area has a history of significant gold production and two veins are known to occur on the Summit property. Low grade gold and silver values have been recorded. A short geophysical survey was done in June, 1989. This report summarizes the 1989 exploration program on the Eagle claims. At the time of the survey the ground was 50% snow covered and it was very difficult to survey close to the known veins.

## RECOMMENDATIONS

The existing geochemical and geophysical grid from this and previous work should be expanded and extended. Any further self-potential surveys should be done adjacent to the known vein structures to determine whether a significant response is obtained. Further soil sampling, VLF-EM surveys, and geological mapping should be done.



CLAIM DATA

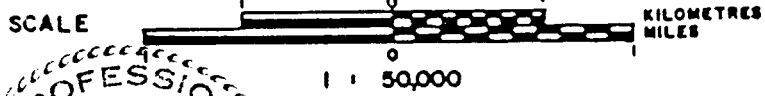
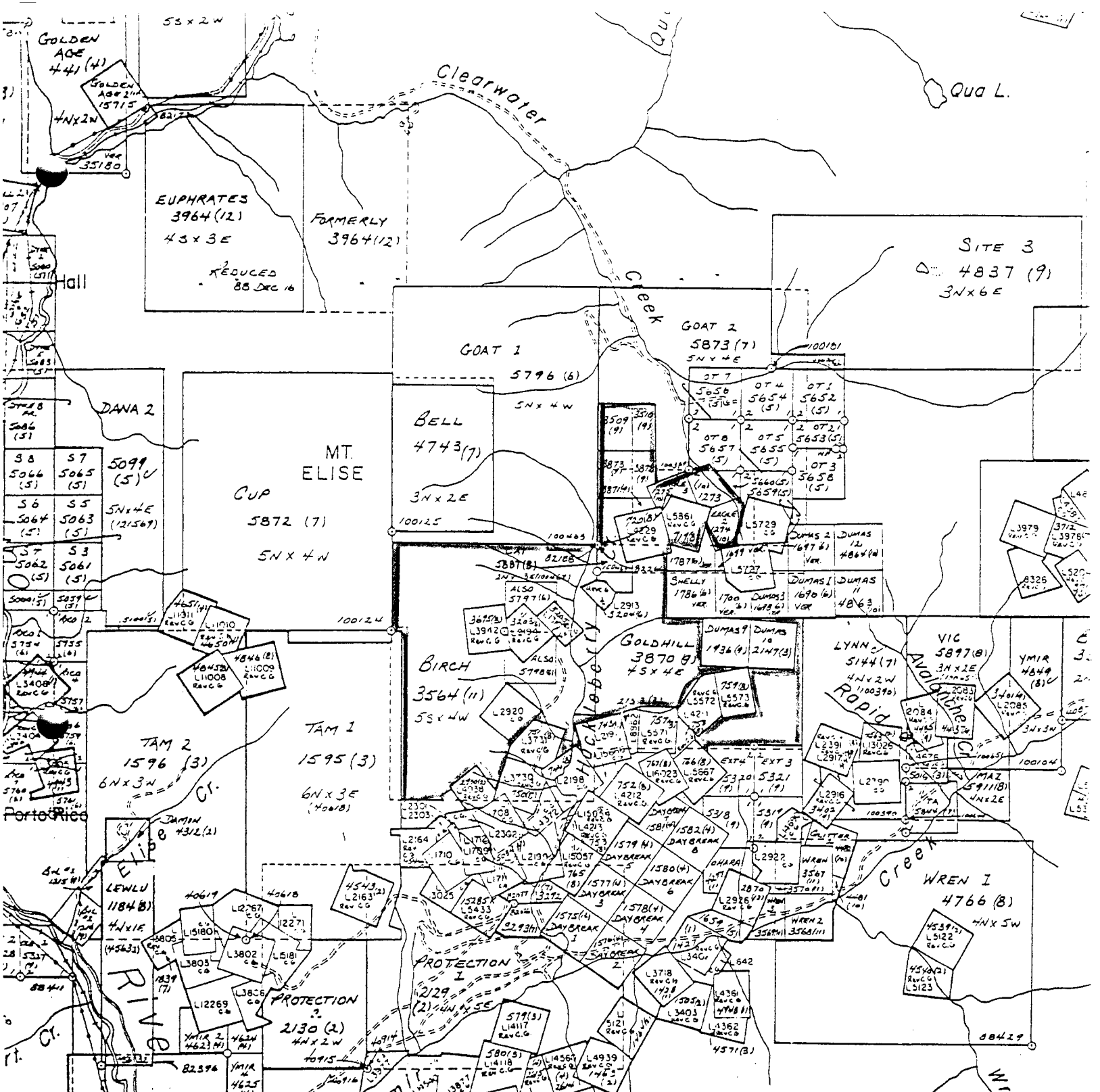
The Summit Group comprises the following claims totalling 51 units;  
See claim map, Figure 2.

<u>Claim Name</u>	<u>Lot No.</u>	<u>Record No.</u>	<u>Type</u>	<u>Anniv. Date</u>
Editor	5861	719	Rev.c.g.	Aug. 8
Summit	4229	720	Rev.c.g.	Aug. 8
Eagle 1		1273	Two Post	Oct. 1
Eagle 2		1274	Two Post	Oct. 1
Eagle 3		1275	Two Post	Oct. 1
Moss 1		1859	Two Post	Aug. 12
Moss 2		1860	Two Post	Aug. 12
Ema	2913	3204	Rev.c.g.	June 6
Elise	1310	3205	Rev.c.g.	June 6
Moss 6		3509	Two Post	Sept 9
Moss 7		3510	Two Post	Sept 9
Birch(20 units)		3564	Mod. Grid	Nov. 4
Salmon Star	3942	3695	Rev.c.g.	Mar. 30
Goldhill(16 units)		3870	Mod. Grid	Sept 12
Raven 1		3871	Two Post	Sept 12
Raven 2		3872	Two Post	Sept 12
Raven 3		3873	Two Post	Sept 12

HISTORY

The Ymir district has been a productive gold mining camp in the past, with several significant producers such as the Dundee, Wilcox, Ymir and Yankee Girl mines.

In the period 1984 to 1988 soil sampling was conducted on the Summit group of claims. In 1986 G. Allen and D. Endersby established a more extensive geochemical grid in the vicinity of the Summit workings, which indicated moderately anomolous values in zinc, lead, silver and gold associated with vein projections. In 1988 J. Murray extended this to the northeast.



NUGGET MINES LTD.  
**CLAIM MAP**  
 SUMMIT PROPERTY

Nelson Mining Division - British Columbia

A.M. exploration Ltd.

82 F/6E

Figure 2

## GEOLOGY

### A. Regional

The Ymir camp lies on the western flank of the Kootenay arc. The area is underlain by Permian to Lower Jurassic argillites, slates and phyllites of the Ymir Group, intruded by dikes and tongues of the Upper Jurassic/Lower Cretaceous Nelson Intrusives.

Ore deposits in the Ymir gold camp occur in sulphide rich, quartz filled fissure veins. Ore shoots are commonly associated with intersections of quartz veins with faults or dikes.

### B. Local

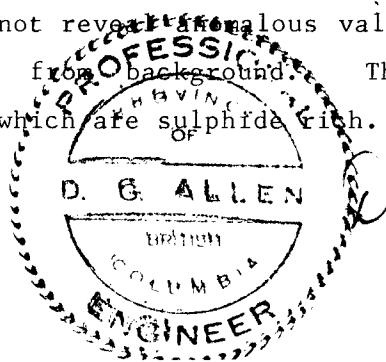
Overburden is extensive in the Summit claim area. Argillites and phyllites, steeply dipping and striking north-easterly underlie the claims. The Summit veins are fissure type quartz veins up to 4 m wide. Gold values are negligible in the zones that have been explored.

## 1989 SELF POTENTIAL GEOPHYSICAL SURVEY

A total of 2125 m of line were SP surveyed in June 1989. The survey consisted of two lines running perpendicular to the known strike of the rock formations. Readings were taken every 25 m. Values were below 5 millivolts for the whole of the survey. Preliminary work using SP indicate that either it is not a good tool for locating overburden covered veins or the survey test line did not cross any vein structures. Further test work is warranted to test the veins in more favourable areas and at the known vein exposures to check whether a significant S.P. response is observed.

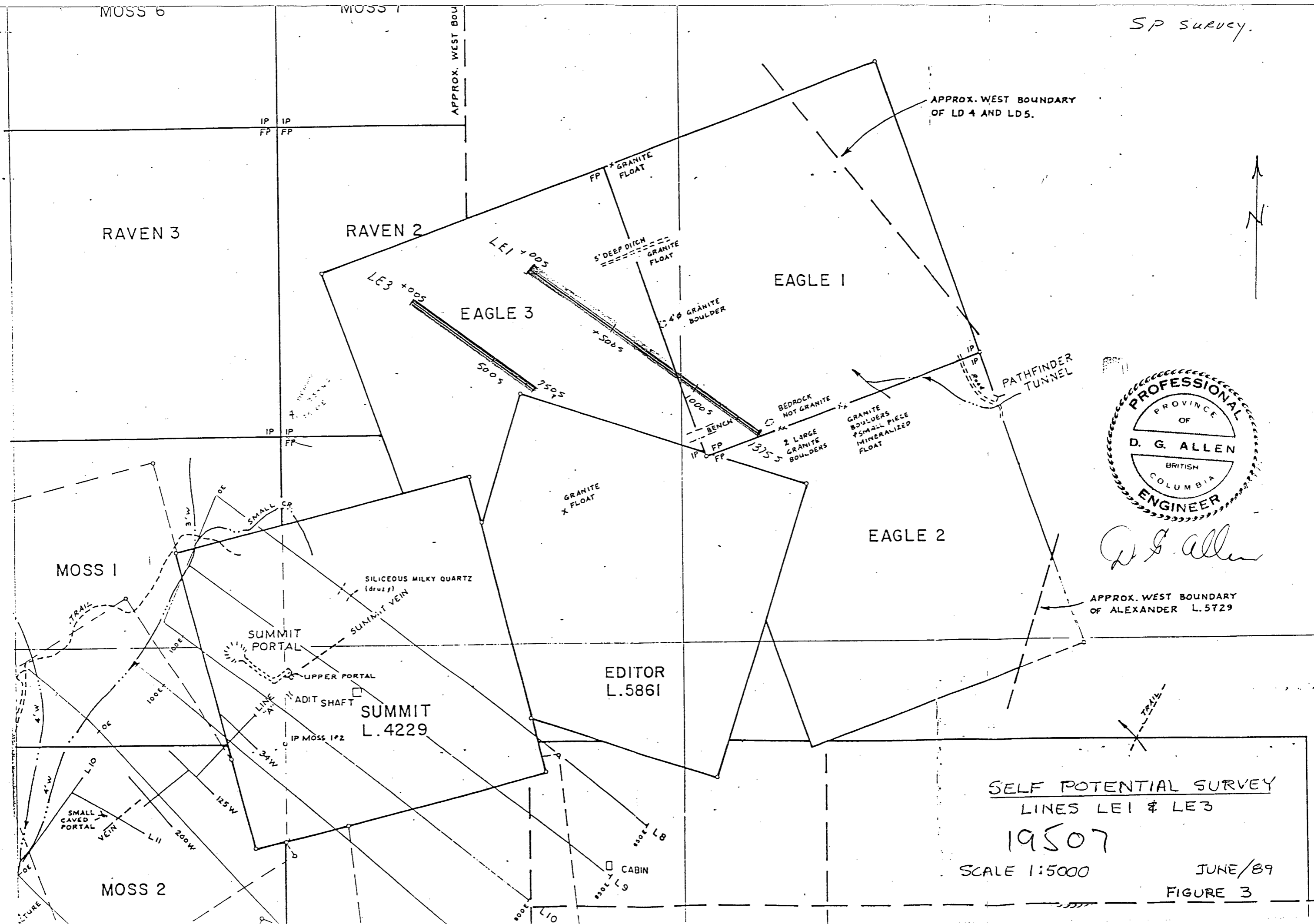
## CONCLUSIONS

The SP survey completed did not reveal anomalous values. The readings varied less than 5 millivolts from background. The SP method was unsuccessful in uncovering veins which are sulphide rich. See Figure 3.



*D. G. Allen*

SP SURVEY.



*D. G. Allen*

APPROX. WEST BOUNDARY  
OF ALEXANDER L.5729

SELF POTENTIAL SURVEY  
LINES LE1 & LE3

19507

SCALE 1:5000

JUNE/89

FIGURE 3



## REFERENCES

Murray, J. (1988). "Summit Property, Ymir".

Allen, G. (1986). Geochemical Survey Report on the Summit Property.

Little, H.W. (1964). GSC Map 1144A "Ymir".

AFFIDAVIT OF EXPENSES

This will certify that Self Potential surveying was carried out between June 6 and June 8, 1989 on the Summit group of claims in the Ymir area to the Nelson Mining Division, British Columbia to the value of the following:

Labour 2 days @ \$250/day	\$ 500.00
Truck Rental 2 days @ \$50/day	100.00
Equipment Rental 2 days @ \$25/day	50.00
Report preparation 1 day @ \$350/day	350.00
Typing and maps	<u>100.00</u>
<b>Total:</b>	<b>\$1,100.00</b>

December 22, 1989



CERTIFICATE

I, Donald G. Allen certify that:

- 1.) I am a Consulting Geological Engineer, resident at 4570 Hoskins Road, North Vancouver, B.C.
- 2.) I am a graduate of the University of British Columbia with degrees in Geological Engineering.  
(B.A.Sc., 1964, M.A.Sc. 1966)
- 3.) I have practised my profession since 1964.
- 4.) I am a member in good standing of the Association of Professional Engineers of British Columbia.
- 5.) This report is based upon fieldwork conducted by Mr. Fred Critchlow during June 1989.
- 6.) I hold no interest, nor do I expect to receive any, in the Eagle claims.

North Vancouver, B.C.  
December 22, 1989



*D. G. Allen*  
D. G. Allen  
P. Eng. (B.C.)