

LOG NO: 11-08	RD.
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REPORT  
ON  
SELF-POTENTIAL SURVEY  
ON THE B-MAC #1 & #2 PROPERTY  
(BAYONNE #2 GROUP)

NELSON MINING DIVISION, BRITISH COLUMBIA

NTS M82F/2W

Latitude 49°10'      Longitude 116°56'W

for

GOLDRICH RESOURCES INC.  
GUNSTEEL RESOURCES INC.  
NUGGET MINES LTD.

by

ENDERSBY, P. Eng. (B.C.)

SUB-RECORDER  
RECEIVED  
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VANCOUVER, B.C.

20,444

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

October 31, 1990

Vancouver, B. C.

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## INTRODUCTION

Goldrich Resources Inc., Gunsteel Resources Inc. and Nugget Mines Ltd. together have a 100% interest in the 166 claims and claim units which comprise the Bayonne property. A self-potential survey was done on the BMac #1 and BMac #2 claims, which are on the northern portion of the property and cover part of the old North Wind property.

The results of the self-potential survey were somewhat inconclusive but if future work relates it more specifically to the exposed areas of the existing veins it can be of value in outlining extensions of the existing veins and locating of other veins, particularly if used in conjunction with VLF-EM and geochemical surveys.

The showings of gold, silver, lead and zinc values obtained in the past indicate that further exploration is well warranted.

## REGCOMMENDATIONS

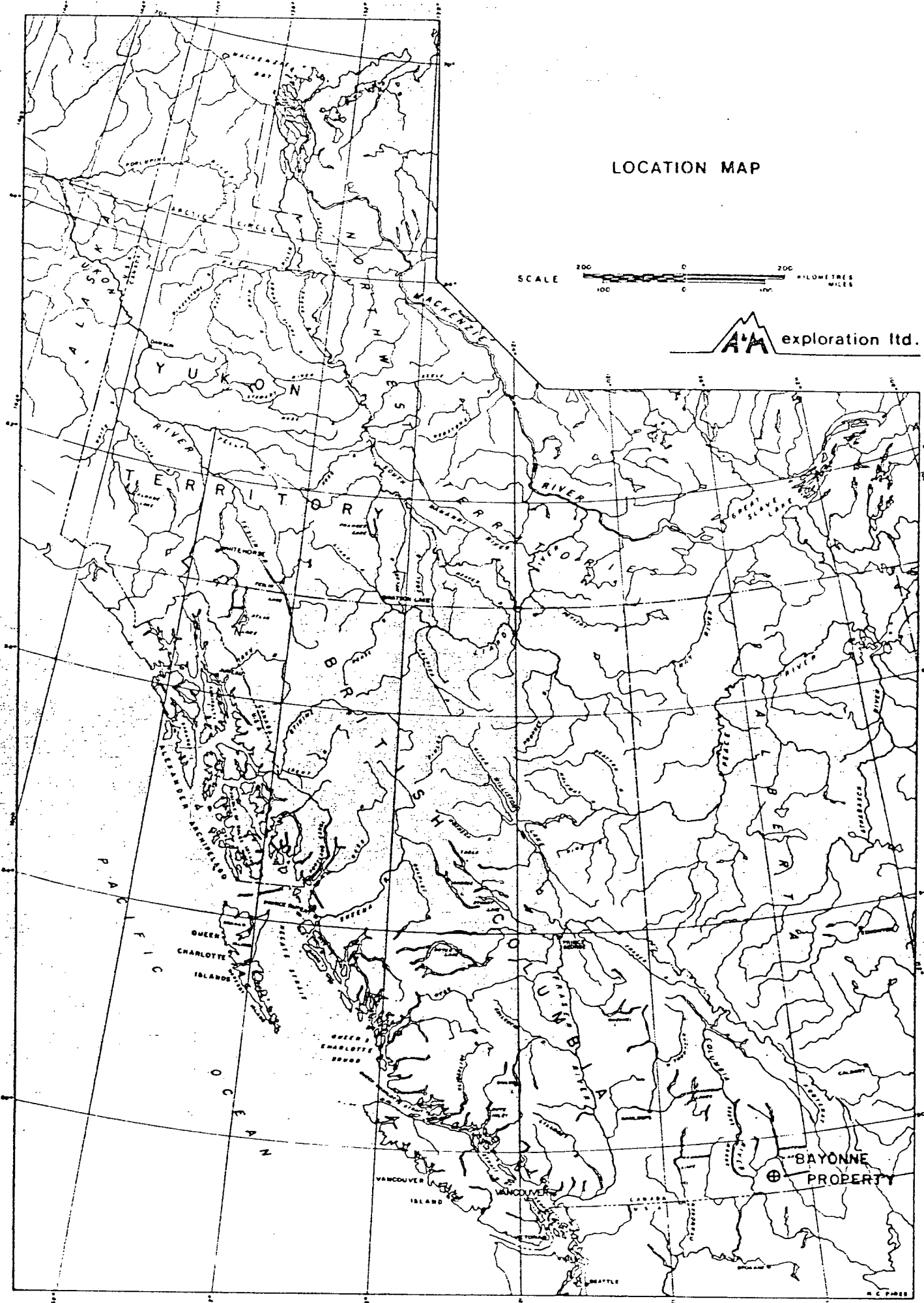
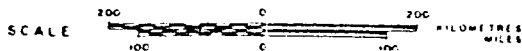
The results of the self-potential survey were not very conclusive but further work is warranted. The several known vein exposures should be mapped in detail and self-potential, VLF-EM and geochemical grids surveyed over the area. If specific responses are found over the known veins the results can be used to find the vein projections under the overburden and possibly find other vein structures.

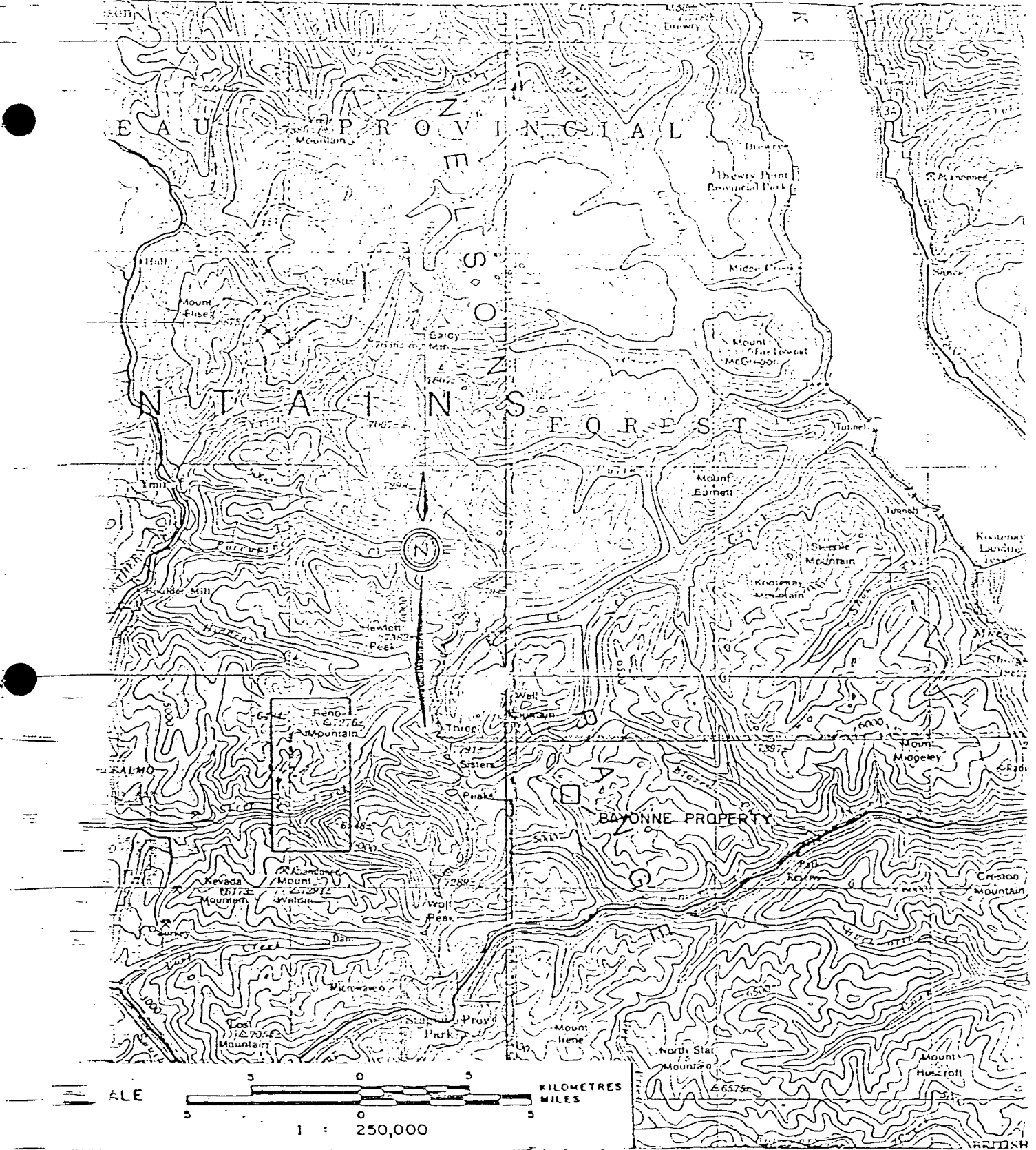
## LOCATION, ACCESS, PHYSIOTHERAPY

The Bayonne property, which includes the BMac #1, BMac #2, Bluebird and Last Chance claims, is situated in the Nelson Mining Division in southeastern British Columbia, approximately 50 kilometres southeast of Nelson and 450 kilometres due east of Vancouver. It lies about 15 kilometres north of the U. S. boundary.

Access to the property is via about 6 kilometres of gravel road up the valley of Bayonne Creek from the southern trans-provincial highway, about 32 kilometres west of Creston and 50 kilometres east of Salmo. The access road leaves the highway at about 1200

LOCATION MAP





ACCESS MAP

metres elevation and rises to about 1890 metres at the lower workings of the Bayonne mine.

The topography of the property is moderately rugged, with elevations ranging from about 1350 metres to 2225 metres at the peak of John Bull Mountain. The country is heavily timbered where it has not been logged. Climatic conditions are not excessively severe.

The BMac #1 and BMac #2 claims on which the work was done are situated along the north facing slope of John Bull Mountain.

#### CLAIM DATA

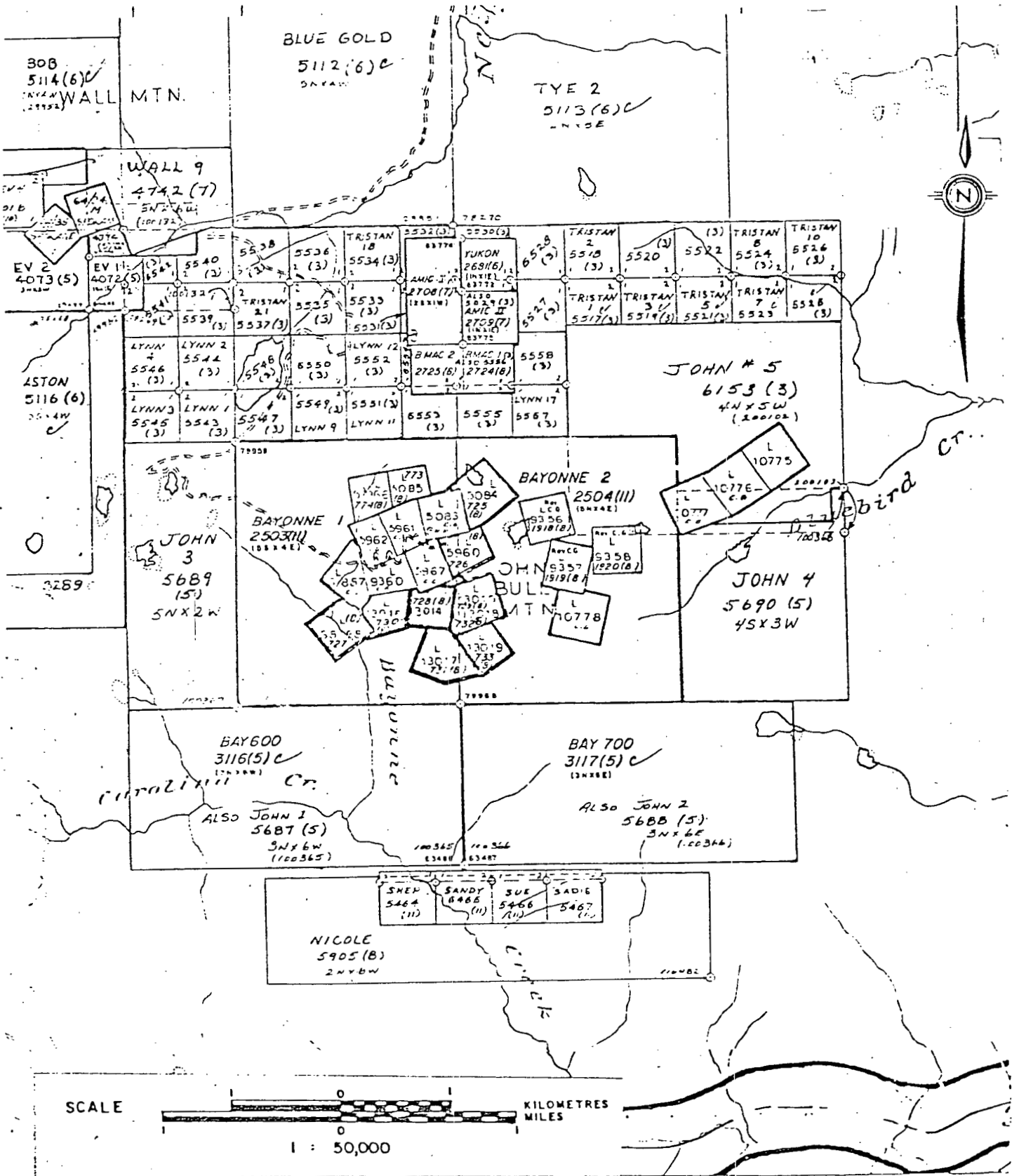
The claims which are the subject of the assessment work are part of the Bayonne 2 group and are as follows:

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Anniversary Date</u>
Bluebird	1919	1	August 21
Last Chance	1920	1	August 21
BMac #1	2724	1	August 3
BMac #2	2725	1	August 3

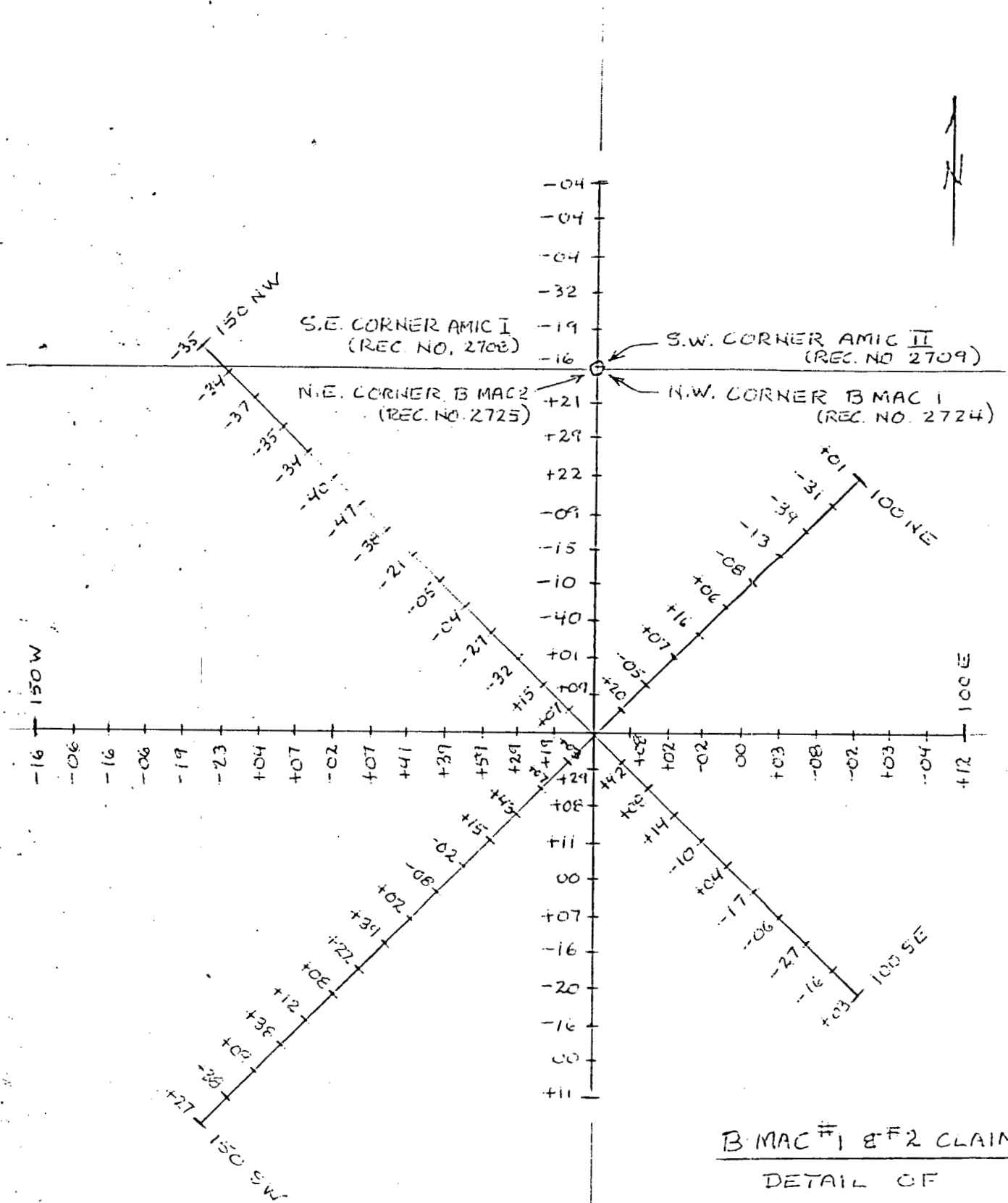
#### HISTORY

The earliest recorded history of the Bayonne property was in 1901 when the Bayonne and Echo claims received some attention. Early work consisted of numerous trenches and three short adits on the 1st, 6th and 8th levels developing the original vein exposure. Very little work was carried out between 1915 and 1935 when the 17 original Crown grant claims including the Bayonne and Echo claims were acquired by Bayonne Consolidated Mines, Ltd. Underground development and mining began and a 60 ton cyanide concentrator was constructed, coming into full production in 1936. Production was slowed down in 1939 in favour of an extensive development program and then continued unabated up to 1942.

The mine was at a standstill due to labor and material until 1945 when it began operations again until 1946. Minor tonnages were produced by lessees between 1947 and 1951. Total production of the Bayonne mine is reported as being 85,000 tons averaging 0.47 ounces of gold and 1.12 ounces of silver per ton. This includes



BAYONNE PROPERTY  
CLAIM MAP



READINGS AT 10 METER INTERVALS

B MAC #1 & #2 CLAIMS  
 DETAIL OF  
 SELF POTENTIAL SURVEY  
 (ALL READINGS IN D.C. M.V.)

SCALE 1:1500

FIGURE 4



the shipments by the lessees in 1947-1951 that totalled 673 tons averaging 0.67 ounces of gold per ton, 4.75 ounces of silver per ton, and 4.4% lead and 2.3% zinc.

The showings on the BMac and Amic claims appear to be related to the old Northwind property. The report of the Minister of Mines (1927) mentions that the Northwind vein was traced for about 3300 feet and contains vein widths of 30-80 cm. with gold values ranging from 0.10 to 0.78 ounces of gold per ton with accompanying values of lead, zinc and silver. The report speaks of "several veins". Apparently these showings were restaked several times since the early 1900's but development was restricted to a few shallow shafts and surface cuts.

In 1982 Cima Resources located two mineral showings in this area - the 300 meter long Yukon vein and a fissure zone formed by a set of mineralized veinlets. Both showings appear to be related to the Northwind vein mentioned earlier. Anomalous values detected by a preliminary geochemical survey indicate the existence of other veins parallel to the Yukon vein, and a possible widening of the Yukon vein southwest of the current showings. Further exploration work is well warranted in this area.

#### GEOLOGY

The claim area is underlain by similar intrusive rocks to the Bayonne Mine, which is farther south on the same property. These rocks are part of the calcite granodiorite "Mine Stock".

Mineral occurrences consist of a fissure vein striking N40-50°E dipping almost vertically. It can be traced over 300 meters with widths of 5 to 40 cm. Three hundred metres west of the west end of this vein there is a fissure zone comprised of several quartz filled fractures striking N-S to N20°W which dip between vertical and 60°E. This fissure zone has a similar mineralogy to the vein. Geochemical survey results show an anomalous zone between the two showings which imply that the structures could be related.

The vein gangue is composed of milky white quartz which contains pockets and fractures filled predominantly with pyrite and galena, an overall mineralogy comparable with the Bayonne Mine primary sulfides.

### SURVEY RESULTS

A total of 1000 metres of line were run and surveyed for self-potential. Copper sulfate electrodes were used with a digital readout millivoltmeter that had a 10 megohm internal resistance. Readings were taken at 10 metre intervals.

The values obtained ranged over about 100 millivolts but their distribution did not clearly delineate any underlying feature. The results were thus inconclusive, but if future work relates the self-potential readings more specifically to the exposed areas of the existing veins it can be of value in outlining extensions of existing veins and locating other veins, particularly if used in conjunction with VLF-EM and geochemical surveys.

### CONCLUSIONS

While the values obtained from the self-potential readings were inconclusive in this case, the vein showings and values indicate that further exploration on this part of the Bayonne property is well warranted.

Future work of a similar nature should be first related more closely to existing vein showings to determine the nature of the response, and be co-ordinated more closely with other geophysical and geochemical work.

#### REFERENCES

- 1.) RICE, H. (1941) Nelson Map Area, East Half. Geological Survey  
Canada Memoir 229.
- 2.) PHENDLER, R. W. - P. Eng. - "Report on the Bayonne Property"  
Nelson Mining Division. October 4, 1982.
- 3.) WELLS, R. A. and O'GRADY, F. - P. Eng. - "Exploration and  
Development Proposal - Bayonne Mining Property"  
Nelson Mining Division, British Columbia,  
July 20, 1984.
- 4.) ALLEN, G. M. - P. Eng. (Ont.) - "Report on the Bayonne Property"  
Nelson Mining Division, B. C. - Bluebird 1919,  
Last Chance 1920, B. Mac 1-2724, B Mac 2-2725,  
September 28, 1989.

AFFIDAVIT OF EXPENSES

This will certify that a self-potential survey was carried out on the BMac #1 (Record No. 2724) and BMac #2 (Record No. 2725) claims in the Bayonne 2 group in the Nelson Mining Division between July 23, 1990 and August 2, 1990 to the value of the following:

Wages - F. Critchlow - 2 days @\$175.00	\$350.00
- D. Llewellyn - 2 days @175.00	350.00
Vehicle rental - 2 days @ \$35.00	70.00
Mileage - 350 ms. @0.20	70.00
S.P. Rental	50.00
Materials, flagging, etc.	50.00
Report preparation	600.00
	<hr/>
	\$1540.00
	<hr/>

October 31, 1990

Stan A. Endersby, P. Eng.

CERTIFICATE

I, Stan A. Endersby, certify that:

- 1.) I am a graduate of the University of British Columbia in Chemical Engineering (B.A.Sc. 1953). Also I have an M.Sc. (1965).
- 2.) I am a member in good standing of the Association of Professional Engineers of B. C.
- 3.) This report is based on fieldwork carried out by Mr. F. Critchlow on the BMac #1 and #2 property (Bayonne 2 group) between July 23, 1990 and August 2, 1990 and supervised by myself.
- 4.) I have an interest in the Bayonne property.

October 31, 1990  
Vancouver, B. C.



Stan A. Endersby, P.Eng.