

6493

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MAPS

LOCATION MAP OF PROVINCE CLAIM GROUP	follows P. 3
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MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. _____

REPORT ON THE GEOCHEMICAL SURVEY
OF PART OF THE PROVINCE CLAIM GROUP,
NELSON ISLAND, VANCOUVER MINING DIVISION, B. C.

SUMMARY

On October 19th, 1977 a geochemical survey was conducted over part of the Saskatchewan claim of the Province claim group on Nelson Island, B. C. A total of 49 samples were taken at 25 m. intervals on east-west lines spaced at 75 m. and aimed to cross the geological structures which might be favourable for copper mineralization.

The samples were analysed for total copper in p.p.m. by the hot acid digestion and atomic absorption process. Four weakly anomalous zones were indicated from a plot of the results, but these are attributed to organic concentration of indigenous copper in the volcanics, and not to possibly economic copper mineralization.

INTRODUCTION:

On October 19th, 1977 the writer carried out a geochemical survey over part of the Saskatchewan claim, one of the Province claim group, located on Nelson Island, B. C. The objective of the survey was to determine if there was the possibility of copper mineralization on or near the diorite-volcanic contact, or associated with the narrow limestone band which has been projected as running roughly parallel to the contact a short distance to the east.

LOCATION AND ACCESS

The claims are located on the east side of Bruce Lake on Nelson Island, in the Vancouver Mining division of B. C. The geographical location is approximately Lat. 49°42'N., Long. 124°07'W.

Access to the property is by way of float plane from Sechelt or other mainland base, to Bruce Lake.

A location map accompanies this report.

TOPOGRAPHY, TIMBER, ETC.

The claims are located on the west flank of a north-south ridge which runs from an elevation of 300 feet at Bruce Lake in a series of rolls and ridges to about 1700 feet at the summit.

The part of the island on which the claims are located has been logged over in the past and is now covered with second growth cedar and fir. Except in swampy areas, overburden is very light often consisting of moss and organic matter directly overlying bedrock, but on the higher ground there is a thin layer of residual soil.

PROPERTY

The Province claim group consists of 6 reverted Crown Grants recorded November 8th, 1976 in the name of John McGoran, 3041 West 3rd Avenue, Vancouver, B. C. The claim names are British Columbia, Ontario, Quebec, Alberta, Manitoba, and Saskatchewan. Record numbers are 120 to 125 inclusive.

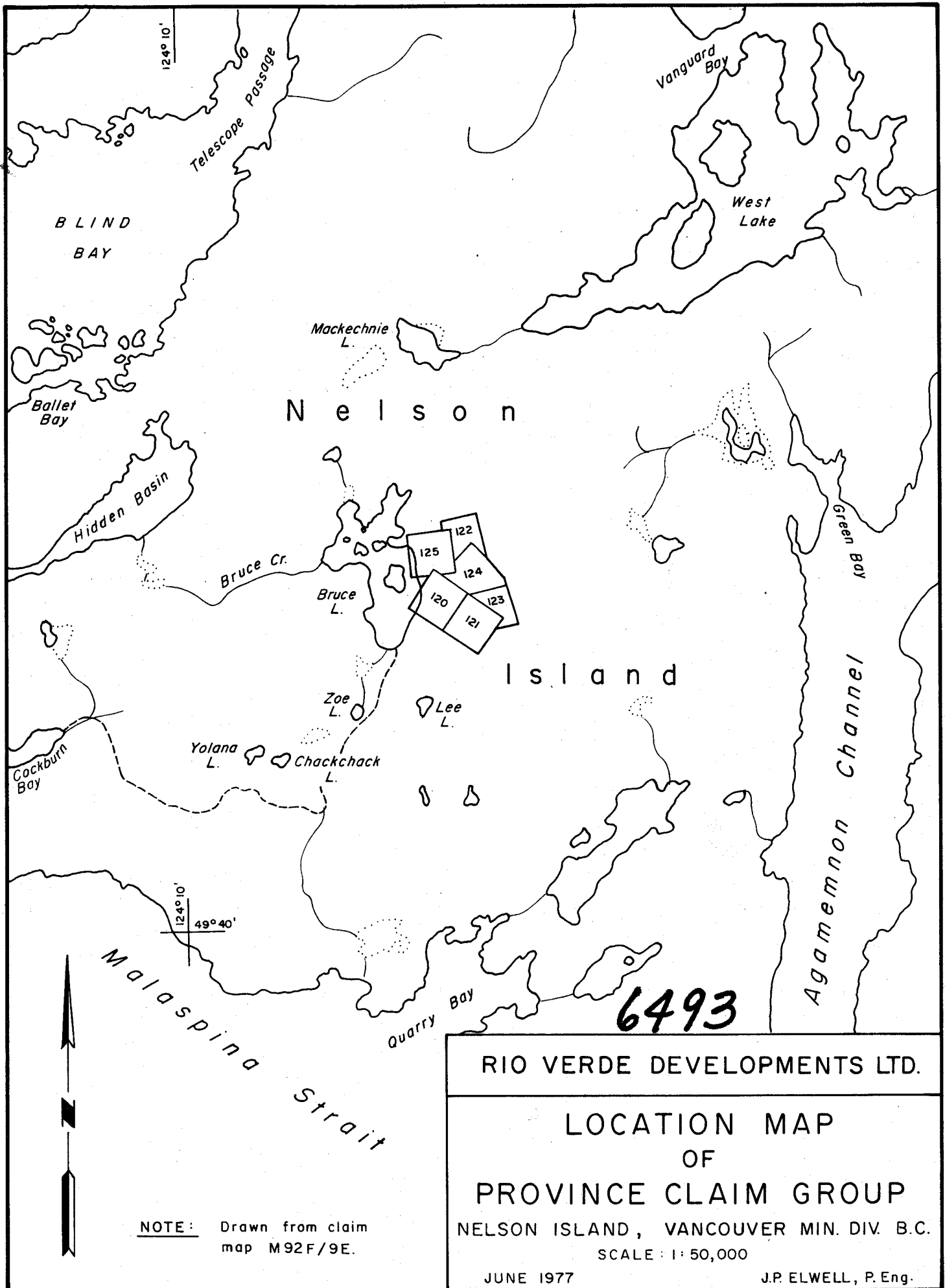
GENERAL GEOLOGY

The government geological maps do not cover the Nelson Island area, but the part of the claim area covered by the survey was mapped in a general way by C. F. Millar, P. Eng. in 1961.

The claim area is mainly underlain by volcanics intruded by Coast Range diorites, the contact running roughly north-south close to the west side of Bruce Lake. A 200 foot wide belt of vertically dipping limestone runs slightly west of north through the Province claims and its projection through the Saskatchewan claim would place it within 50 m. east of the intrusive - volcanic contact.

GEOCHEMICAL SURVEY

A base line was started near the northwest corner of the Saskatchewan claim and run south on a bearing of 80° to parallel the east shore of the lake. A 25 m. offset to the east was required at 0 + 75S to avoid a bay in the lake. Line stations were flagged at intervals of 75 m. for a total of 375 m. to the south.



NOTE: Drawn from claim map M92F/9E.

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**LOCATION MAP
OF
PROVINCE CLAIM GROUP**

NELSON ISLAND, VANCOUVER MIN. DIV. B.C.

SCALE: 1:50,000

JUNE 1977 J.P. ELWELL, P. Eng.

The sampling lines were run due east from the base line at the 75 m. stations and samples were taken at 25 m. intervals from the leached residual soil lying between bedrock and the organic overburden. At a number of sample stations the overburden was so thin, that the sample contained a high proportion of organic material. A total of 49 samples were taken over 1300 m. of line.

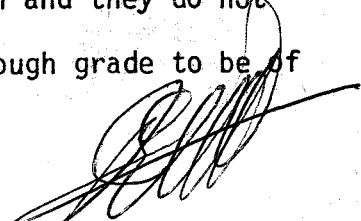
ANALYSIS PROCEDURE

The samples were submitted to Chemex Labs Ltd., North Vancouver, B. C. where they were dried, screened to - 80 mesh, and one gram samples were digested in 70% hot perchloric and nitric acid for 2 hours, and then analysed by the atomic absorption process, with the result expressed as copper in parts per million.

DISCUSSION OF RESULTS

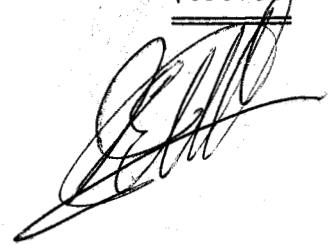
The sample results were plotted on the 1:1,000 scale map which accompanies this report. Background appears to be very low, in the range of 8 p.p.m. and the highest value recorded was 144 p.p.m. on line 75S at 25E. Taking values of 4 times background and higher to be possibly anomalous, the results indicate 4 small, weak anomalies within the area surveyed. These do not appear to coincide with any known structural features of the area, and furthermore, the few rock outcrops observed, and the bedrock exposed during sampling showed no sign of alterations or oxidation.

The conclusion is that the apparent anomalies are probably due to very minor amounts of indigenous copper in the volcanics which has been variably concentrated by the organic material in the overburden and they do not represent zones of copper mineralization of a high enough grade to be of economic importance.



STATEMENT OF COSTS

J. P. Elwell, field time October 19th	\$175.00
Charter aircraft	108.00
Ferry	12.00
Materials - sample bag, flagging	9.00
Assays	85.00
Meals	6.00
Maps and preparation of report	300.00
TOTAL	<u>\$695.00</u>

A handwritten signature in black ink, appearing to be 'J. P. Elwell', is written over the bottom right portion of the document, overlapping the 'TOTAL' line and extending downwards.

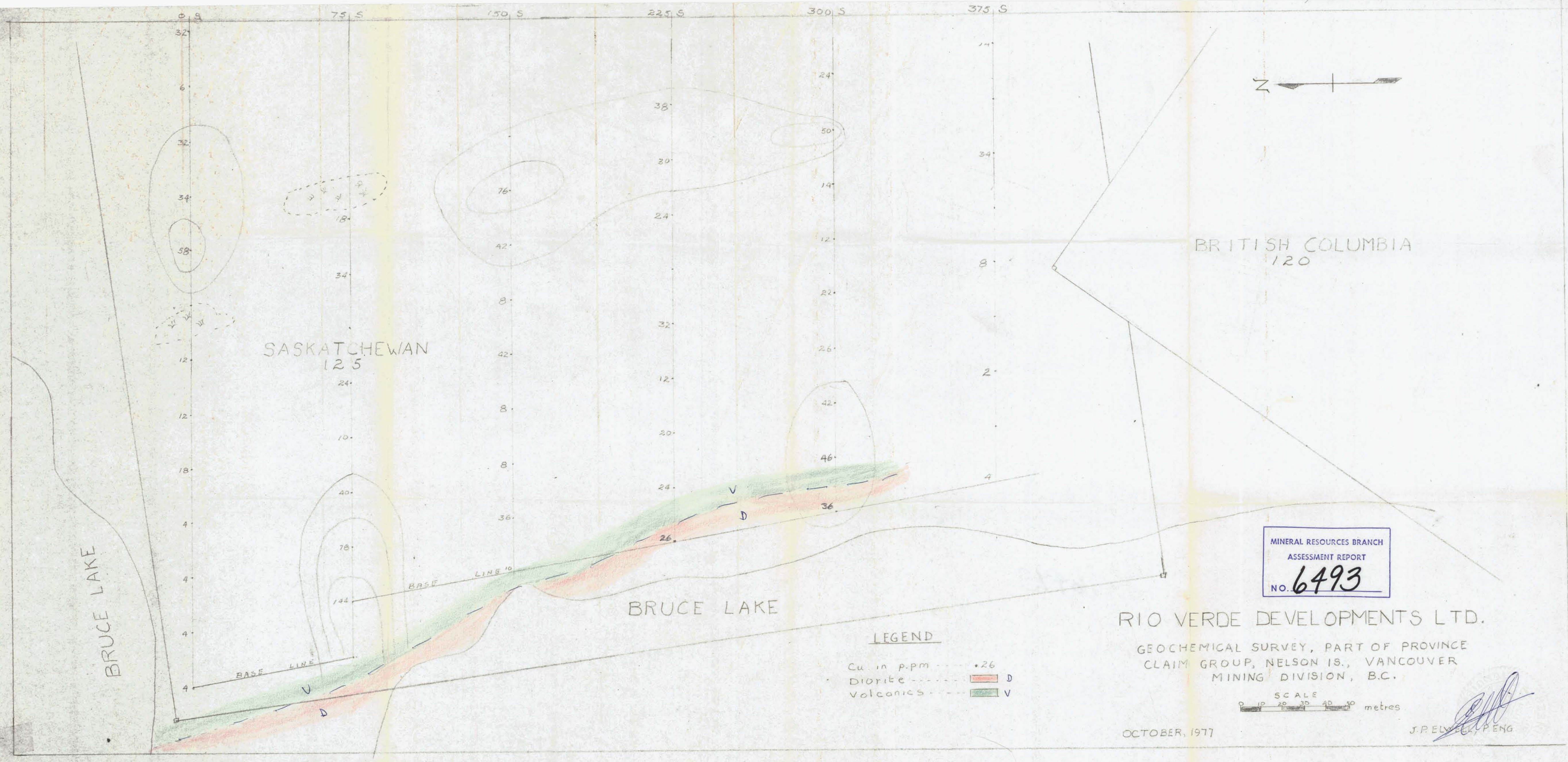
CERTIFICATE

I, James Paul Elwell, of 4744 Caulfield Drive, West Vancouver, B. C.
do hereby certify that:

1. I am a Consulting Mining Engineer residing at 4744 Caulfield Drive,
West Vancouver, B. C., and with an office 1030 - 510 West Hastings
Street, Vancouver, B. C. V6B 1L8
2. I am a graduate in Mining Engineering from the University of
Alberta in 1940, and am a Registered Professional Engineer in the
Province of British Columbia.
3. I have no personal interest, directly or indirectly in the properties
examined or in Rio Verde Developments Ltd. securities, nor do I
expect to receive directly or indirectly any interest in such
property or securities.
4. The report is based on the results of field work done by me
October 19th, 1977.

DATED at VANCOUVER, B. C. this 27th day of October, 1977.


JAMES PAUL ELWELL, P.Eng.



BRITISH COLUMBIA
120

SASKATCHEWAN
125

BRUCE LAKE

BRUCE LAKE

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. **6493**

LEGEND

- Cu. in p.p.m. --- • 26
- Diorite --- D
- Volcanics --- V

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GEOCHEMICAL SURVEY, PART OF PROVINCE
CLAIM GROUP, NELSON IS., VANCOUVER
MINING DIVISION, B.C.

SCALE
0 10 20 30 40 50 metres

OCTOBER, 1977

J.P. Elwell
J.P. ELWELL, P. ENG.