

1817

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Illustrations

- Geochemical Map - Eholt Claim Group - 1" = 100'
(in front cover)

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1816 MAP

Introduction

(49° 118° ^{S.W.} N.W.) The Eholt Claim Group is approximately fourteen miles E. of the town of Greenwood. It joins the west section of the Oro De Noro Claim group held by West Coast Resources. Access to the property is by road through the West Coast Resources Property.

The main objective of the survey was to outline any anomalous zones on the Stan Fraction Claims #'s 2,3,&4, & R.R.1,2,6. Previous reconnaissance geochemistry showed encouragement for this area. Due to snow of depth 2' - 5', the soil sampling lines were restricted in length. Four profiles and 57 soils were taken from the property for analysis. The soils were analyzed for copper and the profiles were analyzed for copper and molybdenum. The program involved detailed geochemistry and took five days to complete.

Geochemical Profile

There were four profiles taken over the area of three claims. Two were near the main road to check for contamination and two at an elevation greater than that of the road. The nature of the analytical results of the profiles in relation to values obtained from surrounding soil samples seem to exclude the possibility of contamination of the property except in one instance. This profile is shown on the geochemical map at the north end of line 5240 E. It is possible that contamination is the contributing factor causing the high value of 350 ppm and 450 ppm at a greater depth. However the trend shown on the geochemical map also allows the possibility of mineralization as the cause of these high values, as they are not isolated from neighboring high values.

The A₀ horizon was in all cases composed of humic materials. It was black and carried to a depth of 3". The

Geochemical Profile cont.

A1 horizon was in all cases composed of clay. It was gray and carried from 3" to a general depth of 6". The A2 horizon was in most cases friable and well oxidized. It was orange-brown and carried from 6" to a general depth of 40" near bedrock.

The A₀ horizon carried as high as 40 X the amount of copper carried by the A1 horizon. In all probability this would be caused by contamination, as the A1 horizon carries only 2 - 5 ppm copper. The source of contamination would be from the ore carriers that once used the road that cuts through the property.

As the A1 horizon only carries 2 - 5 ppm Cu., it is evidently acting as a shield in both directions. It blocks the migration of Cu. ions from the oxidized A2 horizon to the surface as well as stopping the migration of Cu. ions downward from the contaminated A₀ horizon. The A1 horizon is therefore, an effective contamination shield for the A2 horizon.

The A2 horizon has ground waters running at a general depth of 20 - 24". This would account for the nearly doubled intensity of copper found at this depth.

The A2 horizon at a depth of 7 - 15" is the most suitable for sampling. It provides a good environment for the mobility of Cu. ions and is essentially undisturbed by contamination from above due to the protective A1 horizon and is relatively protected from the additive effects of the ground waters as they are running well below the 15" mark. Angular rock was found in the majority of the soils and would indicate that bedrock lies fairly close to the surface. Approximately 5 - 15'

A2 horizon soils from a depth of 8 - 10" were picked randomly and mixed to a mud-like consistency with a buffered solution of Ph 7. After sitting five minutes the Ph was measured at 5.5. The same procedure was followed

Geochemical Profile cont.

with a buffered solution of Ph 4.4. The resulting Ph was 5.0. Therefore, the soil is definitely of an acidic nature, in the vicinity of 5.5.

Geochemical Survey

All lines were run by the pace and compass method. The road shown on the geochemical map was used as a tie line and sample positions shown on the map are shown as true to this line. The thick bush, 25° - 35° slope and deep snow made accurate pacing difficult and therefore, it was necessary to correct the sample positions on the map in order to obtain an accurately contoured geochemical map.

57 soils were taken at approximately 150' intervals on lines spaced approximately 300' apart. Four profiles were also taken on the grid and are positioned on the geochemical map with the A2 (3-10") horizon value shown for contouring.

The sample holes were dug with a shovel through 5 - 6" of frozen ground to an average depth of 8 - 10". The sample was taken by hand. The soil was contained in a watertight envelope in which it remained until analysis. The sampling horizon was A2 in all cases. The soil was friable and oxidized in all cases.

The anomalous zones of copper are encouraging as soil conditions in the area aid mobility of the ions. This would indicate a relatively stronger source of copper than that found in areas where the soil is 'fixing' the copper ions.

Molybdenum analysis were run on all profiles. However, no Mo. was detected in the samples. The area can therefore be safely assumed to be relatively devoid of molybdenum.

All samples were delivered to Chemex Laboratories Ltd.

Geochemical Survey cont.

where drying, sieving, and analysis by atomic absorption for copper and colorimetric analysis for molybdenum, was carried out under the supervision of professional chemists.

Conclusions

The soil geochemistry carried out on the property shows anomalous zones in copper. Molybdenum was not present in the soils. A sampling depth of 7 - 15" was found to be the most reliable over the whole grid, and presumably the rest of the property.

Recommendations

A full scale detailed geochemical survey carried out over the entire property would be of considerable value. The recommended survey would have lines spaced 400' apart with sample intervals of 250 - 300'. The sample depth would be 8 - 10".

A magnetometer survey would also be of value as massive amounts of magnetite with disseminated chalcopyrite was found in the ground lying approximately $\frac{1}{2}$ mile east of Stan Fraction #4 along the road.

Financial Statement

<u>Personnel</u>	<u>Period</u>	<u>Man Days</u>	<u>Wages</u>	<u>Total</u>
G.L. Anselmo	April 10-14/69	5	\$75/day	\$ 375.00
Costs directly applicable on property				\$ 54.00
Map Preparation & Interpretation				\$ 50.00
Report Preparation				\$ 50.00
Soil Sample Determinations				\$ 85.30
Total amount applicable to assessment				\$ 614.30
<u>Other expenses</u>				
Vehicle expense @ 5¢/mile		720 miles		\$ 36.00
Recording of work on claims @ \$5.00/\$100.00 work/yr. for six claims for one year				\$ 30.00
Total -----				\$ 680.30

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *23rd*
day of *April*, 1969, A.D.

G. L. Anselmo
G. L. Anselmo
President

J. Paul Sub-mining Recorder
A Commissioner for taking Affidavits within British Columbia or
A Notary Public and in the Province of British Columbia.

List of Claims and Work Distribution

<u>Group</u>	<u>Claim #</u>	<u>Record #</u>	<u>Type of Work</u>	<u>Expen- diture</u>	<u>Total Claimed</u>	<u>Years Applied</u>
Eholt	Stan Fr.#2	21313	Geochem- ical	\$100.00	\$100.00	1
"	Stan Fr.#3	21314	"	"	"	"
"	Stan Fr.#4	21315	"	"	"	"
K.R.	1	24040	"	"	"	"
"	2	24041	"	"	"	"
"	6	24045	"	"	"	"

Total Claimed

For six claims - \$ 600.00

*John H. Chernoff
 Strand Tanks
 King Resources Co.
 1300 Shandon House*



INVOICE

CHEMEX LABS LTD. 1416 CROWN ST., NORTH VANCOUVER, B.C. TELEPHONE 988-8955

Pacific Geochemical Services Ltd.
1424 Crown St.
North Vancouver, B.C.

DATE April 15, 1969

INVOICE NO. 1133

CERTIFICATE NO. 3508-3509

ATTN: Mr. G. Anselmo

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL
	53 samples analyzed for Copper @ \$1.00	\$53.00	
	14 samples analyzed for Copper, Molybdenum @ \$1.35	18.90	
	67 samples prepared @ \$0.20	13.40	
			\$85.30

TERMS — NET 80 DAYS


Statement of Operator's Qualifications

Geochemical Survey on Eholt Claim Group as well as map work, interpretation and report by G.L. Anselmo, B.A., president of Pacific Geochemical Services Ltd., under the supervision of W.G. Stevenson, P. Eng.

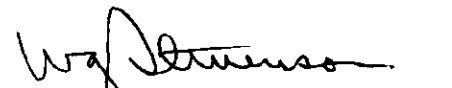
I, Garry L. Anselmo, do hereby certify:

- that I have studied three years at U.D.C. in geology & geochemistry.
- that I am a graduate of Simon Fraser University.
- that I have worked two years at Britannia Beach with Anaconda American Brass Ltd., doing geochemical lab & field exploration work.
- that I have worked two summers with Kennecott Copper Co. in field explorations.
- that I have worked one summer with Amax Explorations Ltd. in field explorations.

Signed:


G.L. Anselmo, B.A.
President

Co-signed:


W.G. Stevenson, P. Eng.

PACIFIC GEOCHEMICAL SERVICES LTD.

1424 CROWN STREET • NORTH VANCOUVER, B.C. • 985-8116

April 18'/69

Dear Sir,

The report on the Eholt claim group to accompany the work affidavits will be turned in on or before the 25th of April 1969.

Respectfully,



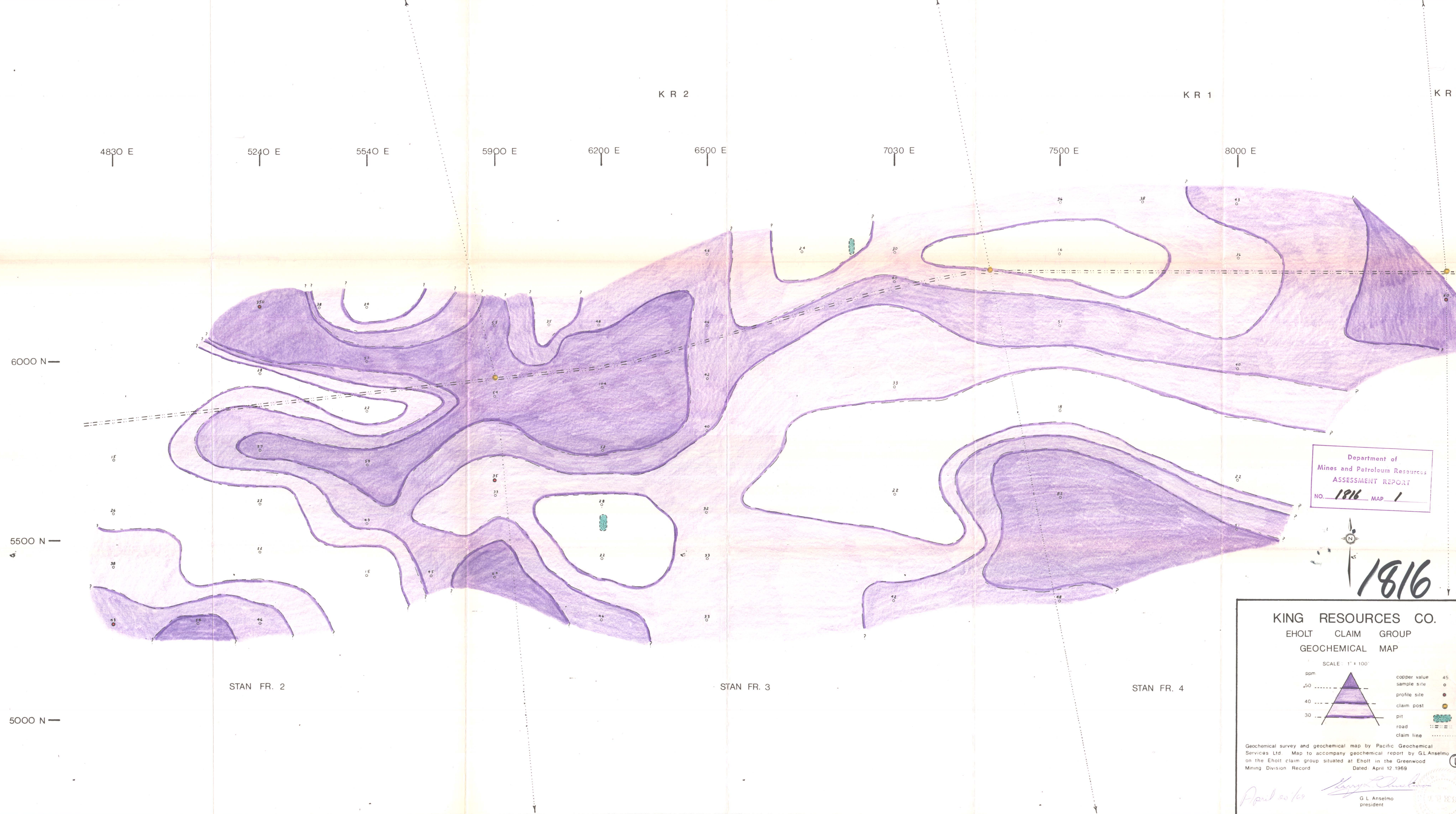
G.L. Anselmo
President

**SUB - MINING RECORDER
RECEIVED**

APR 18 1969

M.R. #.....\$.....

VANCOUVER, B. C.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1816 MAP 1

1816

KING RESOURCES CO.
EHOLT CLAIM GROUP
GEOCHEMICAL MAP

SCALE: 1" = 100'

- | | | | |
|-----|-------|--------------|------|
| ppm | | copper value | 45 |
| 50 | ----- | sample site | o |
| 40 | ----- | profile site | • |
| 30 | ----- | claim post | o |
| | | pit | ■ |
| | | road | --- |
| | | claim line | ---- |

Geochemical survey and geochemical map by Pacific Geochemical Services Ltd. Map to accompany geochemical report by G.L. Anselmo on the Eholt claim group situated at Eholt in the Greenwood Mining Division Record. Dated: April 12 1969

April 20/69
G. L. Anselmo
president