

GEOCHEMICAL AND SURVEY REPORT

ON THE WALT AND BULB

GROUPS

OSOYOOS, B. C.

49° 00 NORTH 119° 35° WEST 82E/4E for

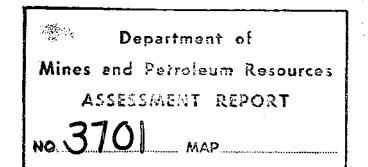
1 A. MULTIPLE MINING & DEVELOPMENT

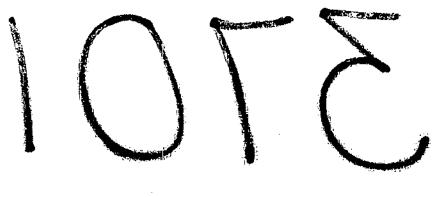
LTD.

5017 ROSS STREET RED DEER ALBERTA

May 29, 1972 by G.G.KRAUSE BSc P.Geo.

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## Map #1 Soil Geochemical Survey for Cu

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INTRODUCTION:

A geochemical soil survey for copper was completed on the Walt and Bull Groups of mineral claims in two periods June 16 to 28, 1971, and April 10 to 23, 1972. A claim survey was undertaken in April . 1972, in part, with the base line survey providing the necessary ground control for the grid system. Mrs. K. G. Rathbone B.G.E.S., A.LS., D.L.S., of 878 - East 17 th street, North Vancouver, B.G. provided this service. The claims are 6 miles west of Osoyoos at an elevation of 5000 feet, good reads traverse the property which is reasonably open country.

GENERAL GEOLOGY:

The area of the claim groups is underlaim by Greenstones of Paleozoia (f) age, penetrated by intrusions of Jurmanic Age; the intrusions are of variable rock types, Sevenite to Granodiorite. Strong lineations are evident in the asrial photos suggesting a fault system which may control the distribution of the mineralized zones. Visible copper mineralization has been observerd with Malachite staining.

SOIL COLLECTION AND CLASSIFICATION:

Soil sampling was completed on the East - West cross lines both east and west of the base line ( see Map #I). Sampling intervals on these lines were IOO and 200 foot spacings as measured by chain. Each sample location was marked according to its footage along the line and flagged with tape. Approximately 75,000 feet of samples were analyized.

The soil sampling was done at the time of chaining, at each location a hole was dug with a grub how to a depth of 6 to I2 inches to the <sup>3</sup> E<sup>2</sup> layer and a 3 = 4 ounces of soil taken and placed in a kraft sample bag. The soil develoment is mature with a good Ai 6<sup>8</sup> to I2<sup>8</sup> thick. , a minor B I 2 to  $3^8$ , and a B 2-I2 feet in places.

The sampling was done by Commercial Explorations Ltd., Mr. Heyes and Mr. Needhame

ANALYTICAL TREATMENT:

The samples were analysed by Orest Laboratories (B.C.) Ltd. under the direction of Fred Burgess. The work was done as the samples were received in April, dried in their respective sample bags at a temperature of 150 degrees  $P_{s}$ , and then seived to a -80 mesh through a stainless steel mash. A  $\frac{1}{2}$  gram portion of these samples were placed in 25 by 200 millimeter culture tube and digested in a mixture of perchloric and nitric acid a 425 deg. F. for a period of 3 hours. The resulting digested sample was then made up to 25 millilitres volume in 10% perchloric acid. The respective sample solutions were asperated into a Techtron Atomic Absorption Spectrophotometer model 5 and absorption readings were recorded. Calibration of the atomic absortion spectrophotometer is effected by preparation and analyses of respective metal standards each day.

## RESULTS:

In areas of soil development over Paleozoic Greenstones previous studies in graphing the copper values and the cumulative - frequency concentrations has statistically given the following parameters. The following figures are statistically derived and are considered the upper limits.

> Background - 40 ppm copper Threshold - 65 ppm copper Distinctly Anomalous - 75 ppm copper High Order Anomalous - 150 ppm copper

The PH of the soils is in the range of 6.64 to 6.96 and under these conditions the copper is immobile.

These results were co-ordinated with the results of theprevious work. The anomalous areas are outlined and detailing of these local areas will now be under taken on 100' spacing. Additional other remote sensing devices shall be imployed to determine co-ordination.

## CONCLUSIONS AND RECOMMENDATIONS

The areas of anomalous copper behavious have been outlined in this survey and it is recommended that expansion of the grid system be completed and employment of an electro-magnetic very low frequency tool be used to determine any conductors present and to help define the rock types underlying covered areas.

ause, BSc P.Geol.

Respectively submitted:

## CERTIFICATE

- I, Gerald G. Krause of 312 Masters Road, Victoria, B.C. do hereby certify that:
- (1) I am a graduate of the University of Alberta; B. Sc. Geology, 1952.
- (2) I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
- (3) I have practiced my profession since 1952.
- (4) The accompanying report is based on an examination of the property and a personal knowledge of similar properties in the Highland Valley - Ashcroft area.

received

(5) I have  $not_{\lambda}$  nor do I expect to receive any interest either directly or indirectly in this property or any of its securities.

DATED at Vancouver, B.C. this 29th day of May 1972.

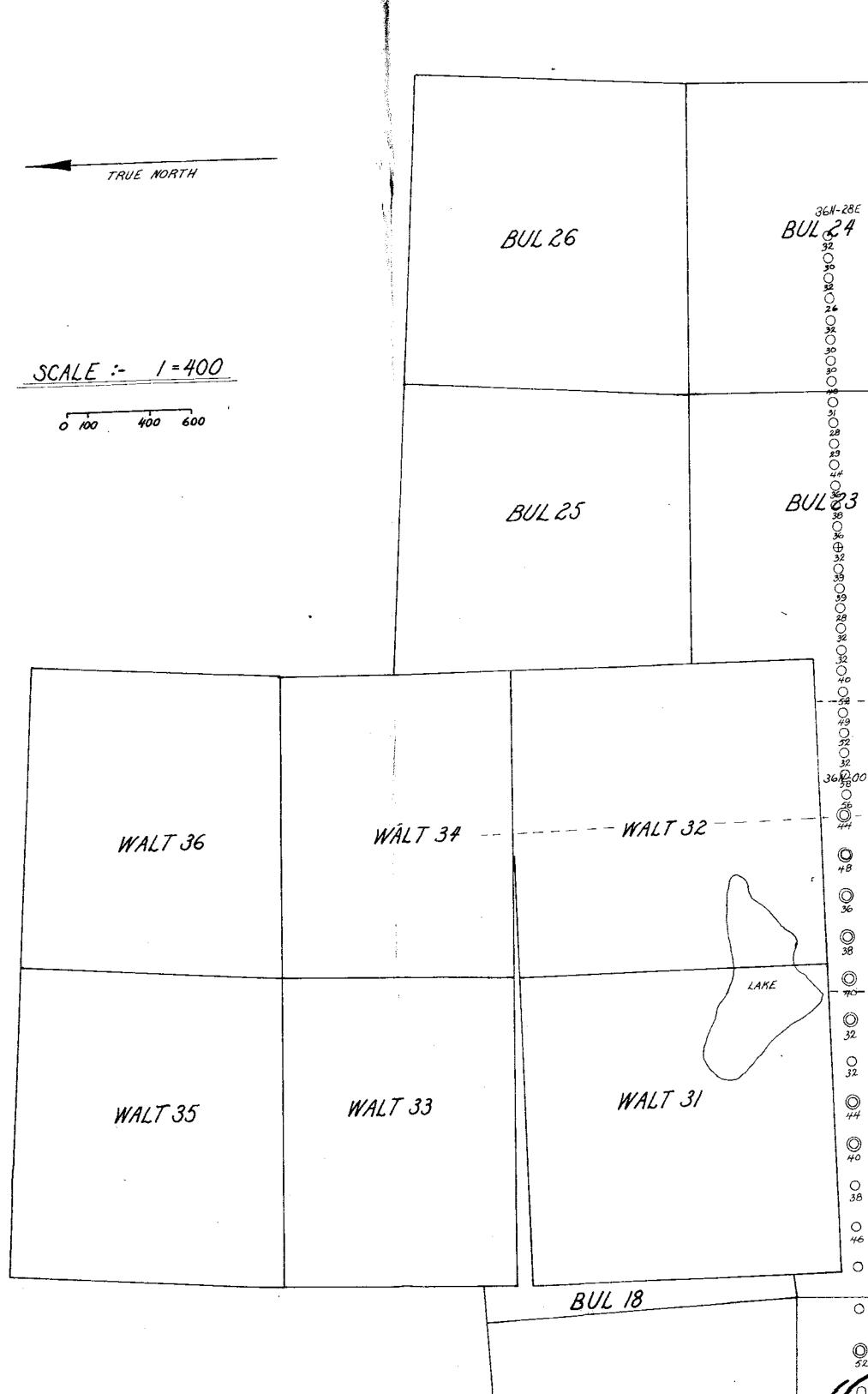
Krause, P. Geol.

I am familiar with this area through past work and concur with Mr. G. G. Krause report dated May 29th, 1972.

F, ROBERTS

A. F. Roberts, P. Eng.

May 29th, 1972.



SOIL GEOCHEMICAL SURVEY (NORTH GRID) BY COMEX LTD. APRIL 13-18, 1972.

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BUL 17

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MULTIPLE MINING LTD. WALT AND BUL MINERAL CLAIMS OSOYOOS MINING DISTRICT OSOYOOS AREA, B.C.

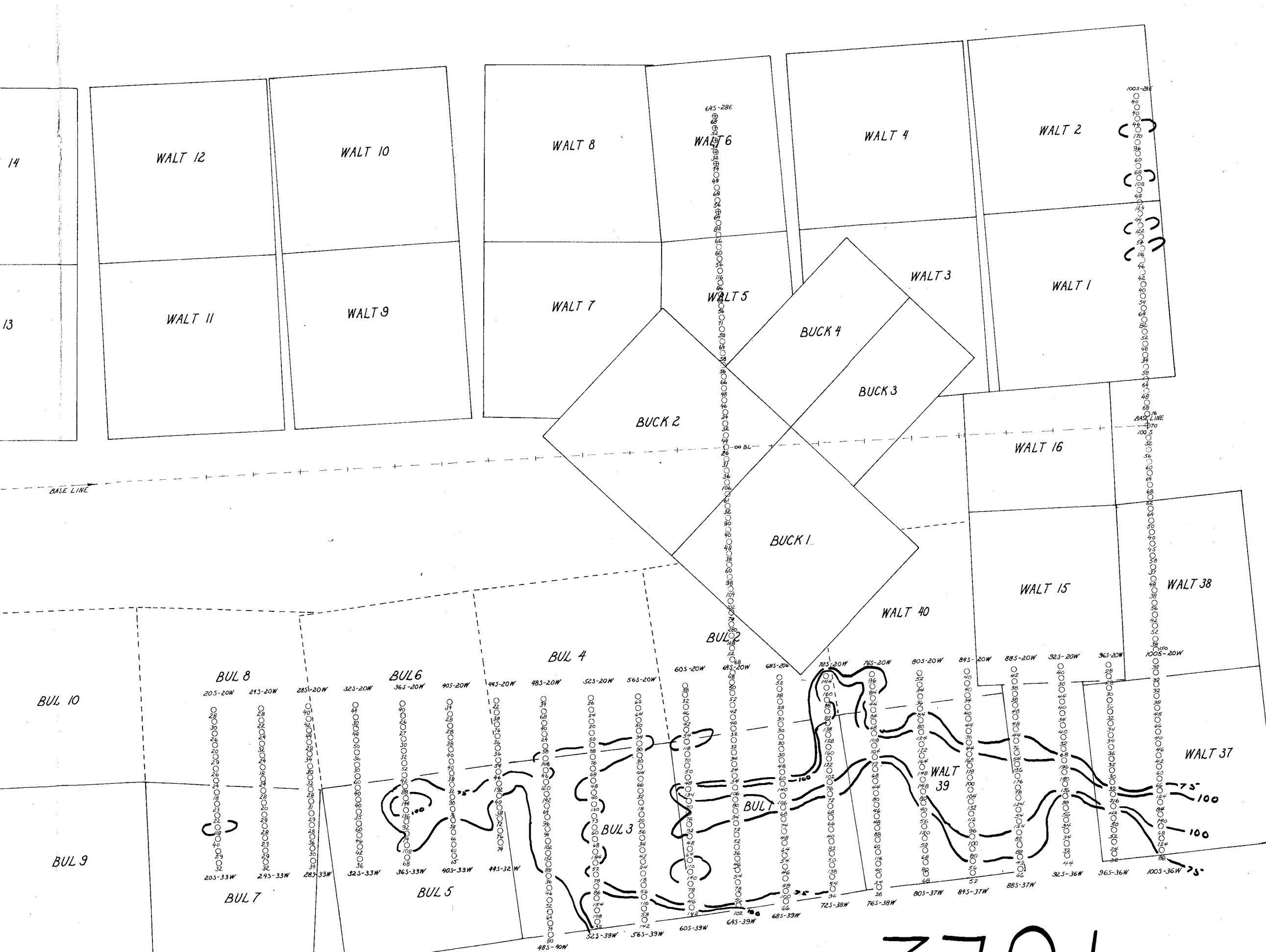
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SOIL GEOCHEMICAL SURVEY FOR COPPER

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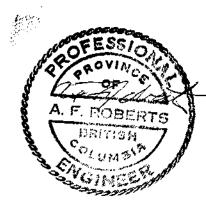
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Department of Mines and Petrolaum Resources ASJESSILENT REPORT No. 3701 MAP #1



LEGEND

- O BZONE SOIL SAMPLE WITH METAL CONTENT JUNG 1971 Samplus 24 IN RRM. PARTS PER MILLION.
- © "É ZONE SOIL SAMPLE WITH METAL 23 CONTENT IN P.P.M.



to accompany Report of May 29, 1972 Seochemical & Surrey Report on Walt + Bull groups Orayoos BG Multiple Mining Duelopment Rtd Multiple Mining Duelopment Rtd

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