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GEOCHEMICAL SURVEY FOR COPPER

92G/7E

92G/7E

of the
Sam

SAM GROUP OF MINERAL CLAIMS

(New Westminster Mining Division)

PITT LAKE AREA

BRITISH COLUMBIA

92 - G - 7 - E

by

P. S. Friesen P. Eng.

12 December 1973

Department of
Mines and Geoscience Resources
ASSESSMENT REPORT
NO. **4834** MAP.....

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#1 Geochemical Survey - Copper

A REPORT ON THE GEOCHEMICAL SURVEY FOR
COPPER OF THE SAM GROUP OF MINERAL CLAIMS

New Westminster Mining Division

92 - G - 7 - E

PITT LAKE AREA - B.C.

by

P. S. Friesen P. Eng.
12 December, 1973

INTRODUCTION

GENERAL

This report describes the soil sampling survey for copper carried out on the SAM Group of Mineral Claims (No's P 28233 to P 28248 - both inclusive).

PROPERTY AND OWNERSHIP

The property consists of 16 staked mineral claims. All are called SAM and numbered from 1 to 16.

They have the recorded numbers of P 28233 ^{to} and P 28248.

The claims are owned by Kerry Mining Company of 2070 - 777 Hornby Street, Vancouver, B.C.

LOCATION AND MEANS OF ACCESS

The SAM Group is situated in NTS 92 - G - 7 - E in the New Westminster Mining Division, British Columbia. The property extends northwesterly from the west shore of Pitt Lake about six miles from the south end of the lake.

The property can be reached by boat from Pitt Meadows. Pitt Meadows is located about ten miles east of Vancouver and connected to it by the Loughheed Highway.

A channel in Pitt River allows access by barge from the Fraser River and hence from the seaboard.

Float equiped aircraft may also be used to reach the property.

DESCRIPTION OF WORK

GRID CONTROL

Lines were established at 200 feet intervals by flagging with tape and occasional blazes. Sampling stations were established every 200 feet along the lines.

Because of the topography, the lines were run in a south westerly direction to avoid excessive climbing.

Five lines, R, S, T, U, and V, were crowded around the margin of a small lake that is contained by SAM No. 11.

SAMPLING PROCEDURE

Samples were taken with a spade below the humus layer. This varied from a few inches up to 36 inches, depending upon the depth of overburden, or the depth of vegetation or vegetal detritus.

SAMPLER

The samples were taken by Mr. John Oliver and his crew under the direction of the writer.

PERIOD OF SURVEY

The samples were collected between October 15th and November 20th, 1973.

ASSAYER

The samples were analysed by

Warnock, Hersey International Ltd.
125 East 4th Avenue, Vancouver, B.C.
The Assayer was Mr. J. G. Alexander

MESH SIZES

The mesh size fraction of the sample used for determinations was 80 mesh.

NAME AND CONCENTRATION OF REAGENTS

The copper determination in part per million were made by the standard Nitric Perchloric Method. Three Mililitres of Nitric acid and two of Perchloric were used. The sample was allowed to digest for four hours to perchloric *fumes*.

INTERPRETATION

GENERAL

Nothing of economic significance was found by the survey. The zoning indicated is very weak and with the amount of bedrock exposed, it is not likely that any deposit of value is hidden.

GEOLOGY

The claim area is underlain by coast plutonic intrusives consisting mainly of quartz diorites and diorites. Inclusions of very fine grained material are common. Some migmatite occurs in the northwestern part of the group.

Only one fault is indicated to cross the eastern corner of the claims.

MINERALIZATION

Pyrite is common as a fine dissemination and along some fractures. Copper was noted in minor amounts in an irregular shear just east of the property.

TOPOGRAPHY

The southeast margin of the claim group parallels the lake shore. From the shore, the surface rises rapidly to 1000 feet. Due to this terrain, lines were established to run in a north easterly direction to avoid excessive climbing. Not only would this be less dangerous, but any zones that might occur in the upper regions would be picked up in the material sliding or rolling down the hill.

Lines in this direction cross the foliate structure at a

slight angle but farther west the lines are nearly perpendicular to the foliation.

SOIL SAMPLING RESULTS

The results of the sampling do not indicate any significant deposit of copper. The average background is too low to indicate any large tonnage - low grade deposit and the two fairly continuous zones (i.e.) along lines Q, R and S, and along line Z are too low to indicate a significant vein. This is further supported by the lack of copper mineralization in the numerous bedrock exposures.

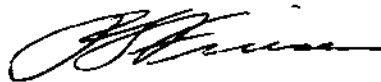
The fault which crossed the eastern portion of the property is not reflected by the copper determinations.

The inherent copper content of diorite and quartz diorite commonly will give equivalent or better results than obtained by this survey.

CONCLUSION & RECOMMENDATION

There is no justification to pursue the search for copper on the SAM Group of Mineral Claims.

Respectfully Submitted



P. S. Friesen

CERTIFICATE OF QUALIFICATIONS

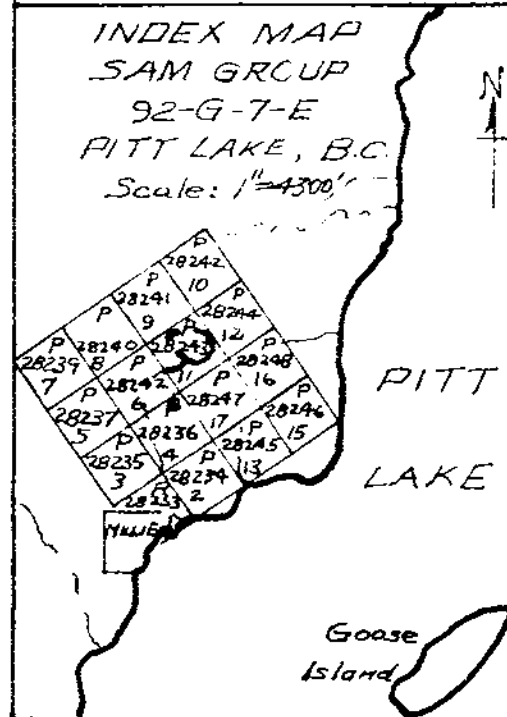
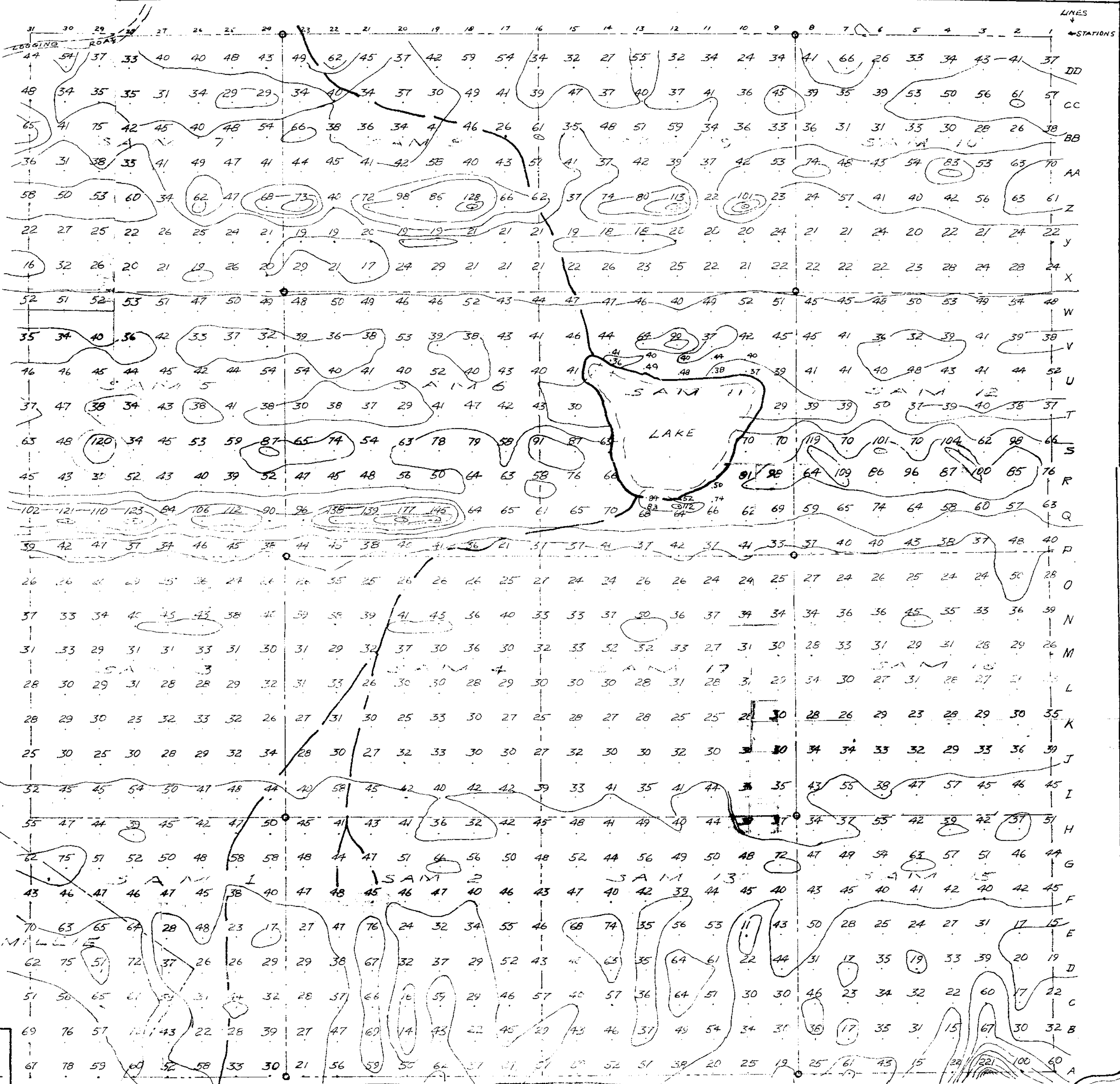
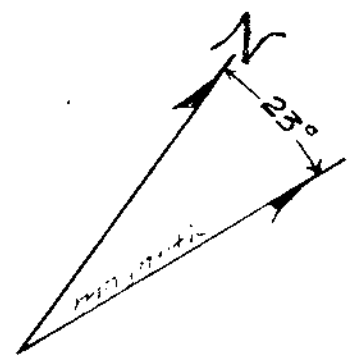
With regard to the report entitled "Geochemical Survey for Copper of the SAM GROUP, Pitt Lake Area", and dated December 12, 1973:

This is to certify that:

- (1) I, Peter Stanley Friesen of 6780 Sumas Prairie Road, R.R. #1, Sardis, B.C., and a Registered Professional Engineer, registered with the Association of Professional Engineers of British Columbia.
- (2) That the work was performed by Mr. John Oliver and his crew under my direction.
- (3) This report is based upon the survey results and available geological and topographic information.
- (4) I have practiced my profession for 23 years.



P. S. Friesen



PITT LAKE

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LEGEND

- 62 Sampling station and parts per million of copper in sample.
- Contour of equal copper values
- Claim Post

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **4834** MAP #1

KERRY MINING COMPANY
2070-777 Hornby St. Vancouver, B.C.

SAM GROUP of MINERAL CLAIMS
(P-28233 to P-28248)
K. Westminster Mining Div. 92-G-7-E
PITT LAKE AREA, B.C.

GEOCHEMICAL SURVEY
for
COPPER
12 Dec. 1973
P.S. Frieser, P. Eng. Scale: 1" = 400'