

# 2865

GEOCHEMICAL SURVEY

92I/11E

KAMLOOPS M.D.

*plotted  
no deposit*

HY 50-64

121-51 NE 5-10-70 : 19-10-70

Alfred R. Allen, P.Eng.

**Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT**

NO. 2865 A.P. ....

For:

Q.C. EXPLORATIONS LTD.  
201- 535 Howe Street  
Vancouver 1, B.C.

By:

ALLEN GEOLOGICAL ENGINEERING LTD.  
507 - 789 West Pender Street  
Vancouver 1, B.C.

February 18th. 1971.

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REFERENCES

MAP:                    Q.C. 1. Geochemical Survey

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## GEOCHEMICAL SURVEY

HY 50 - 64

KAMLOOPS M.D.

5-10-70 : 19-10-70

### INTRODUCTION

In order to test the copper content of overburden covering a part of the HY 50-64 mineral claims, soil samples were collected and assayed for copper.

The samples were acquired at 100-foot intervals on a surveyed grid, along east-west lines established at 400-foot intervals.

Field work, by E.J. Liepins and R. Olsen of Vancouver, was started October 5th. and completed October 19th., 1970. This was carried out from a tent camp located on the property.

### LOCATION AND ACCESSIBILITY

Located in southwestern British Columbia eight miles southeast of Ashcroft, the property is accessible via secondary roads branching from the Bethlehem road.

The claims lie on the upper southwest slope of Glossy Mountain.

Geographic location is  $121^{\circ}-12\frac{1}{2}'$  west longitude and  $50^{\circ}-40'$  north latitude.

PROPERTY

The property is made up of the located and adjoining HY 50-64 mineral claims, Record Numbers 85989-86003, recorded December 4th. 1969.

Posts and claim lines inspected by E.J. Liepins are reported by him to be in accordance with the requirements of the Mineral Act of British Columbia.

GEOLOGY

The southwest slopes of Glossy Mountain are blanketed with Tertiary basalt, except for scattered areas where the Jurassic granitic rocks of the Guichon Creek batholith have been exposed by erosional agencies.

The Copper-molybdenum mineral deposits of the area are located within these older granitic rocks.

A sizeable exposure is known to lie close to the southeast corner of the property, and may extend under the overburden covering the HY 60-64 claims, hence it was this general area that was investigated by the survey.

GEOCHEMICAL SURVEY

A geochemical survey was conducted on a grid pattern over the HY 53, 54, 56, 58, 60, 62 and 64 claims area.

A base line was established along a north-south location line and at 400-foot intervals east lines were extended to the property boundary.

All lines were surveyed by chain and compass and stations were marked at 100-foot intervals. From each station a sample of soil was acquired. This was placed in a paper bag upon which the station number was marked. Over 6.3 line miles, 322 samples were acquired.

All samples were dried and screened and from the -80 mesh material tested by acid extraction and atomic absorption process in the Vancouver laboratories of Warnock Hersey International Limited.

The copper content of each sample was reported in parts per million.

Sample results are shown on the map accompanying this report.

SURVEY RESULTS

The copper content of the soil investigated over the surveyed section is low, but four main areas of above normal copper were outlined on the northern half of the property. These are designated as A, B, C and D and are thus shown on the accompanying map, Q C -1.

Anomaly A.

This area is 800 feet long, 600 feet wide, and open on the west. The copper assays range from 25 to 75 parts per million. It covers parts of the HY 53 and 55 claims.

Anomaly B.

Lying 200 feet southeast of anomaly #1, this zone ranges from 25 to 94 parts per million copper. It is 500 feet wide, 700 feet long and open to the west. It lies on the HY 54 and 56 claims.

Anomaly C.

This weak anomalous area is located on the HY 54 and 56 claims east of number one zone. It measures 600 feet long and about 250 to 400 feet wide. Copper content in the highest sample is 56 parts per million. Three spot samples northeast of these three anomalies range from 25 to 56 parts per million copper.

Anomaly D.

The largest anomaly lies on the HY 58 and 60 claims. It is a low grade zone measuring 1000 feet at the widest section and a maximum of 1,400 feet on the longest axis.

The two strongest assays are 44 parts per million copper. There are 3 "spot" samples to the north ranging from 25 to 44 parts per million, and 4 to the south in a similar copper range.

The remainder of the area surveyed produced soil containing less than 20 parts per million copper.

SUMMARY AND CONCLUSIONS

The HY 50-64 claims lie on the upper southwest slopes of Glossy Mountain in the Highland Valley area 8 miles southeast of Ashcroft, B.C.

The area is believed underlain by the granitic rocks of the Guichon Creek batholith. However, much of the property is masked by basalt and other volcanic rocks of the Kamloops Series which is of Tertiary age and does not contain any known important zones of sulphide mineralization.

Since some "windows" of Guichon igneous rocks occur in the area, one being near the southeast corner of the HY 50-64 claims area, and since this is favourable prospecting ground, a check of the copper content of

overburden thereon was made.

It was found that four areas contain higher than normal copper in the soil sampled, but not sufficient to indicate the presence of strong sulphide copper mineralization.

It is concluded that the geochemical results over a portion of the property have not been sufficiently positive to warrant more than a cursory check of the areas designated as A, B, C and D, but that other geophysical methods should be used to investigate the potential of the property.

#### RECOMMENDATIONS

In accordance with recommendations made in our report of October 26th. 1970, of which #2 of phase one was the geochemical survey now completed, the following work is suggested for the 1971 field season.

- (a) Replace item #2 of phase two with a magnetometer survey of the property.
- (b) Complete the geological survey recommended in item #1 of phase one.

Results from this programme should provide sufficient data upon which to base a decision regarding the adviseability of additional work on the property.

Respectfully submitted,  
ALLEN GEOLOGICAL ENGINEERING LTD.

Per Alfred R. Allen P.Eng.

Alfred R. Allen.

Vancouver, B.C.  
February 18th. 1971.



REFERENCES

Annual Reports, B.C. Minister of Mines

Cockfield, W.E., G.S.C. Mem. 249

Duffel, S. and McTaggart, K.C., G.S.C. Mem 262

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ALFRED R. ALLEN

GEOCHEMICAL SURVEY  
KAMLOOPS M.D.  
HIGHLAND VALLEY B.C.

Expenditures

Crew: E.L. Liepins, October 5-19th incl. 1970,  
operator.  
R. Olsen, October 5-19th incl. 1970, axeman,  
.....\$1680.00

Consultant: Alfred R. Allen, P.Eng.  
.....\$ 450.00

Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *19*  
day of *February*, 1971, A.D.

*Alfred R. Allen*

*L. Jeanotte*  
.....  
A Commissioner for taking Affidavits within British Columbia or  
A Notary Public in and for the Province of British Columbia.

SUB - MINING RECORDER

FIELD CREW

GEOCHEMICAL SURVEY

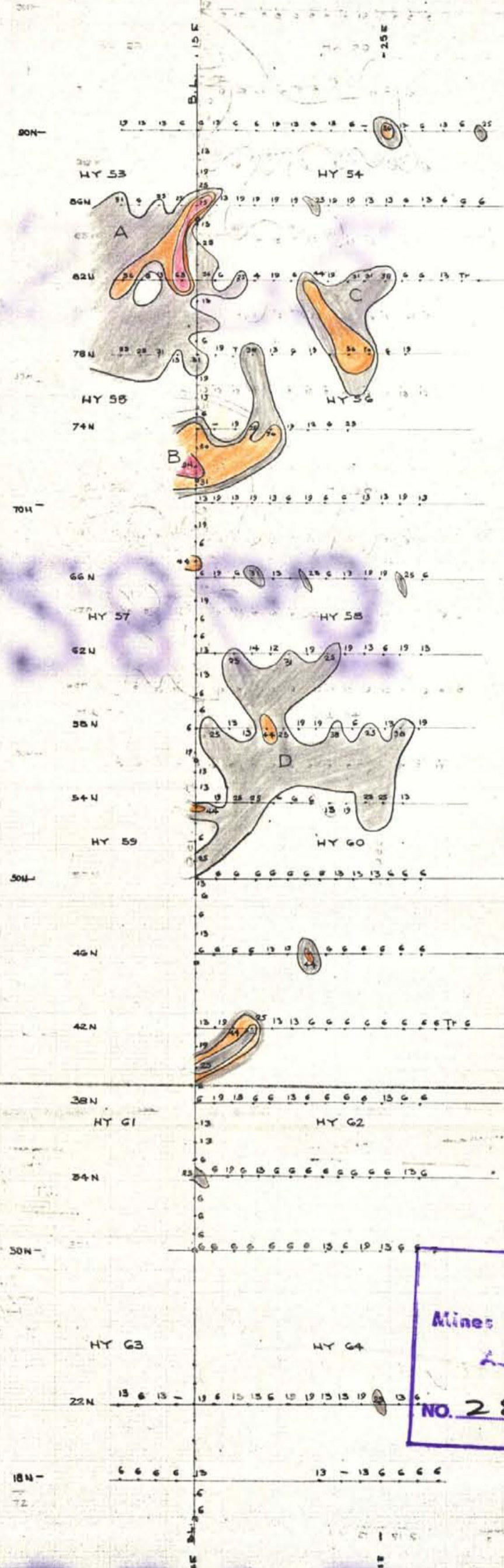
HY 50-64 CLAIMS

Kamloops M.D.

5-10-70 - 19-10-70

E.L. Liepins, operator

R. Olsen, axeman



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2865 AND #1

M-1

2865

**LEGEND**

Copper	□	0-20 ppm
"	■	20-40 "
"	■	40-60 "
"	■	60+ "
Claim Posts	•	

1" = 600'

G. C. EXPLORATIONS LTD. (NRL)	
HY. 50-64 GEOCHEMICAL SURVEY	
	Scale - Ft. 300
<small>Geological Eng.</small> F.M. 18 1971 RC-1 <i>Alfred B. Allen</i>	