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WYE LAKE RESOURCES LTD.

BROD 1 - 8 MINERAL CLAIMS

Hyland River Area

Watson Lake M.D. 105 H-9
Lat. 61° 37' N., Long. 128° 21' W.

EXAMINATION REPORT

by

H.S. Aikins, Technician

PETER H. SEVENSMA CONSULTANTS LTD.

March 1, 1972.

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ILLUSTRATIONS

- Fig. 1 - Property Location 1" = 32 miles
- Fig. 2 - Claim, Access, Topography 1" = $\frac{1}{2}$ mile
- Fig. 3 - Mineral Showing 1" = 100 feet

APPENDIX "A"

Analytical Report - Geochemical

WYE LAKE RESOURCES LTD.

BROD 1 - 8 MINERAL CLAIMS

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Lat. 61° 37' N. Long. 128° 21' W.

EXAMINATION REPORT

1. INTRODUCTION

The Brod group of mineral claims was examined and subsequently acquired by the writer on behalf of Wye Lake Resources Ltd., a private company in which the writer holds a beneficial interest.

The mineral occurrence covered by the Brod claims is understood to have been discovered by Mr. Brodhagen of Watson Lake and staked initially in 1970. No work was recorded and Mr. Brodhagen restaked the present claim group on July 8, 1971.

On July 18, 1971, the writer and Mr. Melnychuk, who had previously visited the property with Mr. Brodhagen, conducted a brief examination and sampled the main showing. The property was examined again during August 22 to August 24, 1971, at which time features noted in figure 2 were mapped and a number of soil samples were taken.

2. LOCATION & ACCESS

The property is located approximately two miles West of the 77 mile post marker on the highway which connects the Canada Tungsten mine with the community of Watson Lake on the Alaska Highway. The claims lie along the East facing slope of the Hyland River valley between elevations 3,500 and 5,000 feet A.S.L. A small stream which crosses the claim group flows into the Hyland River one half mile below the confluence of the Hyland and Little Hyland Rivers.

A well blazed trail has been cut marking a route from the highway to the showing area. An inflatable boat is required for crossing the Hyland River. A helicopter can be landed at several points near the showing. The distance from Watson Lake to the property by air is approximately 100 miles.

3. PROPERTY

The property consists of the following mineral claims:

<u>Claim</u>	<u>Grant Number</u>	<u>Date of Record</u>
Brod 1 to 8 incl.	Y64018 to Y64025	July 30, 1971.

Claims are presently held in the name of E.G. Brodhagen, locator, pending transfer to Wye Lake Resources Ltd.

Two claim posts were observed near the trail and a well blazed line was in evidence suggesting that staking has been done in accordance with the requirements of the Yukon Quartz Mining Act.

An approximate outline of the claim group is shown on figure 2.

4. REGIONAL GEOLOGY

The area has been mapped by the Geological Survey of Canada on a scale of 1" = 4 miles. Map 6-1966, Frances Lake, reveals the subject area to be located near the margin of a metamorphic halo surrounding a granitic pluton.

A thick succession of pelitic sediments and carbonates ranging from Cambrian (and earlier?) to Devonian-Mississippian underlie the general region. No major faulting occurs within the map area.

An airborne magnetic survey of the area flown in 1961 by Aero Surveys Ltd. has been compiled and published as geophysics paper 1384 by the Dept. of Mines and Technical Surveys. Magnetic features shown on Fig. 2 are derived from this source.

5. MINERAL SHOWINGS

(a) General; A number of Zn, Pb, Cu, Ag showings have been located in a Northwest trending belt located some 5 miles to the Southwest. Sulphide mineralization normally occurs in the silicated calcareous and hornfelsic sediments subadjacent to the intrusive contact.

(b) Brod Group; Fig. 3 illustrates the setting of the exposed sulphide occurrence. Six feet of banded sulphides containing pyrrhotite, sphalerite, galena and traces of chalcopryrite are exposed near the base of a steep bluff. The enclosing sediments strike from N 36° W to N 60° W and dip to the South at angles of 60° to 65°. Contacts are well defined where a fresh surface is exposed. The hanging wall is composed of banded hornfelsic sediments in which fine pyrrhotite laminae accent the original banded character. A narrow monzonite dyke cuts this sequence a few feet

below the outcrop.

In the footwall (North side) a section of marbleized limestone about 60 feet thick forms a prominent outcrop. Below this is a rusty weathered zone about 100 feet thick composed of hornfels with minor pyrrhotite along laminations. A slide obscures the area shown as the "North gossan". Pyrrhotite with minor galena is found in float below the slide which is marked by a highly oxidized appearance.

6. GEOCHEMICAL SAMPLING

Seven soil samples and three stream silt samples were taken from locations established by a small grid marked by a cut line and pickets.

The soil samples were taken from shallow pits in irregular patches of residual soil. The total depth of the soil present did not exceed 8" and was composed largely of angular rock fragments within the zone of surface oxidation.

Silt samples taken from the active channel of the stream are mainly of silt and fine sand grade and very light coloured.

7. SUMMARY & CONCLUSIONS

The exposed showing and a good possibility for other similar zones as inferred by the "North gossan" indicate the area as favorable for the occurrence of a significant lead-zinc deposit.

The area is reasonably accessible and good rock exposure exists above tree line at about 4,200 feet. The absence of glacial overburden

suggests that geochemical methods may assist in tracing the zone of interest.

A magnetometer survey would also prove useful as the aeromagnetic data reveal a marked susceptibility contrast which appears to correlate with the margin of the zone of metamorphics. It should be possible to trace the pyrrhotite rich sulphide bands by magnetic methods.

Geological mapping in the cirque to the West and along the creek to the South will provide an improved picture of the geologic setting.

Air photo control with an extension of the existing survey grid for detail will assist in correlating the information gained.

8. RECOMMENDATION

On the basis of data discussed in this report the property was acquired by Wye Lake Resources Ltd.

Further work to consist of geological mapping and limited geochemical and geophysical surveys is warranted. A tentative budget of \$5,000.00 for the 1972 field season is suggested.

Participation by production oriented mining and exploration companies is being solicited on the basis of Wye Lake retaining a net carried interest.

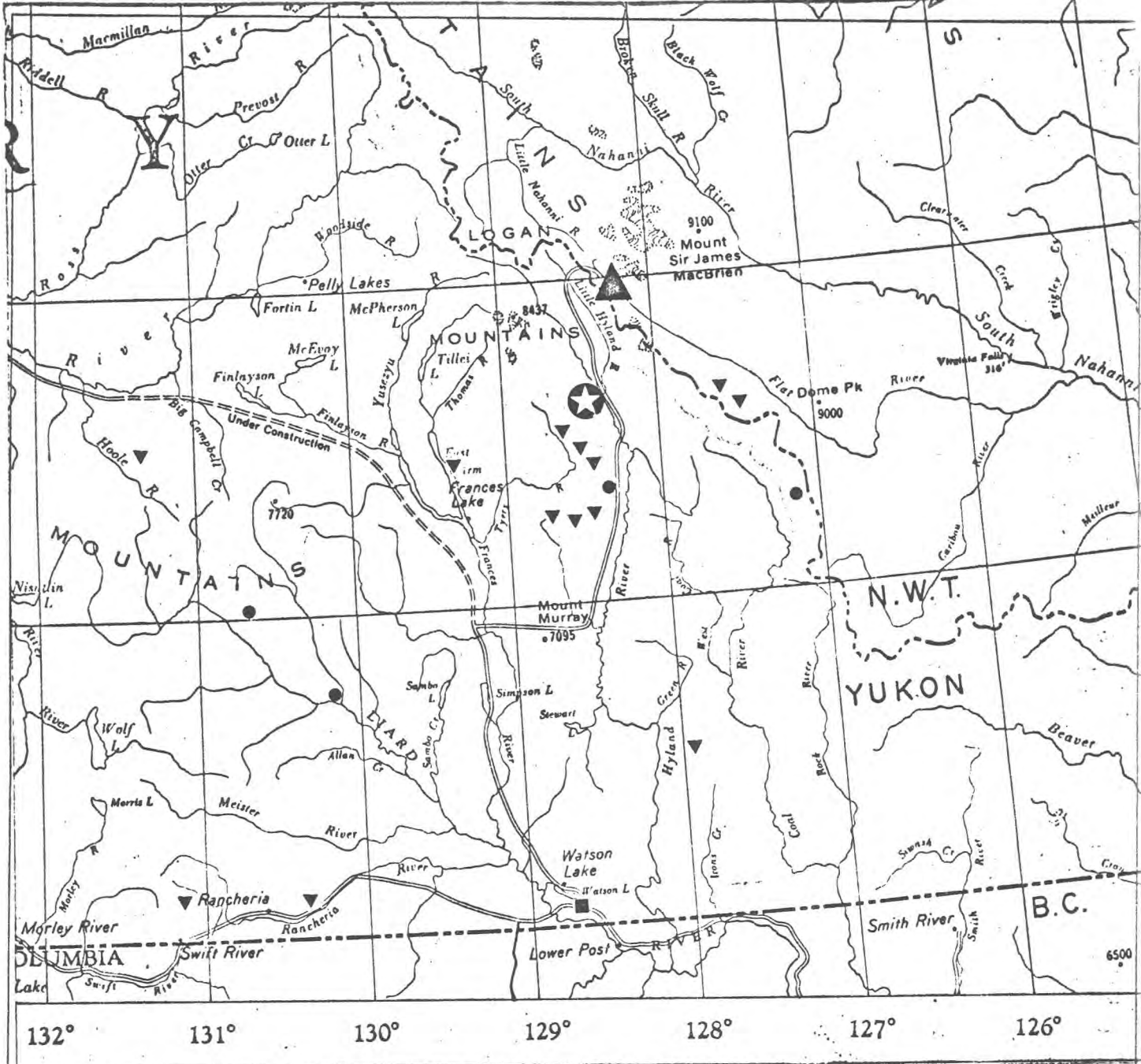
Respectfully submitted,


H.S. Aikins, Technician.

Endorsed by:


P.H. Sevensma, Ph.D., P.Eng.

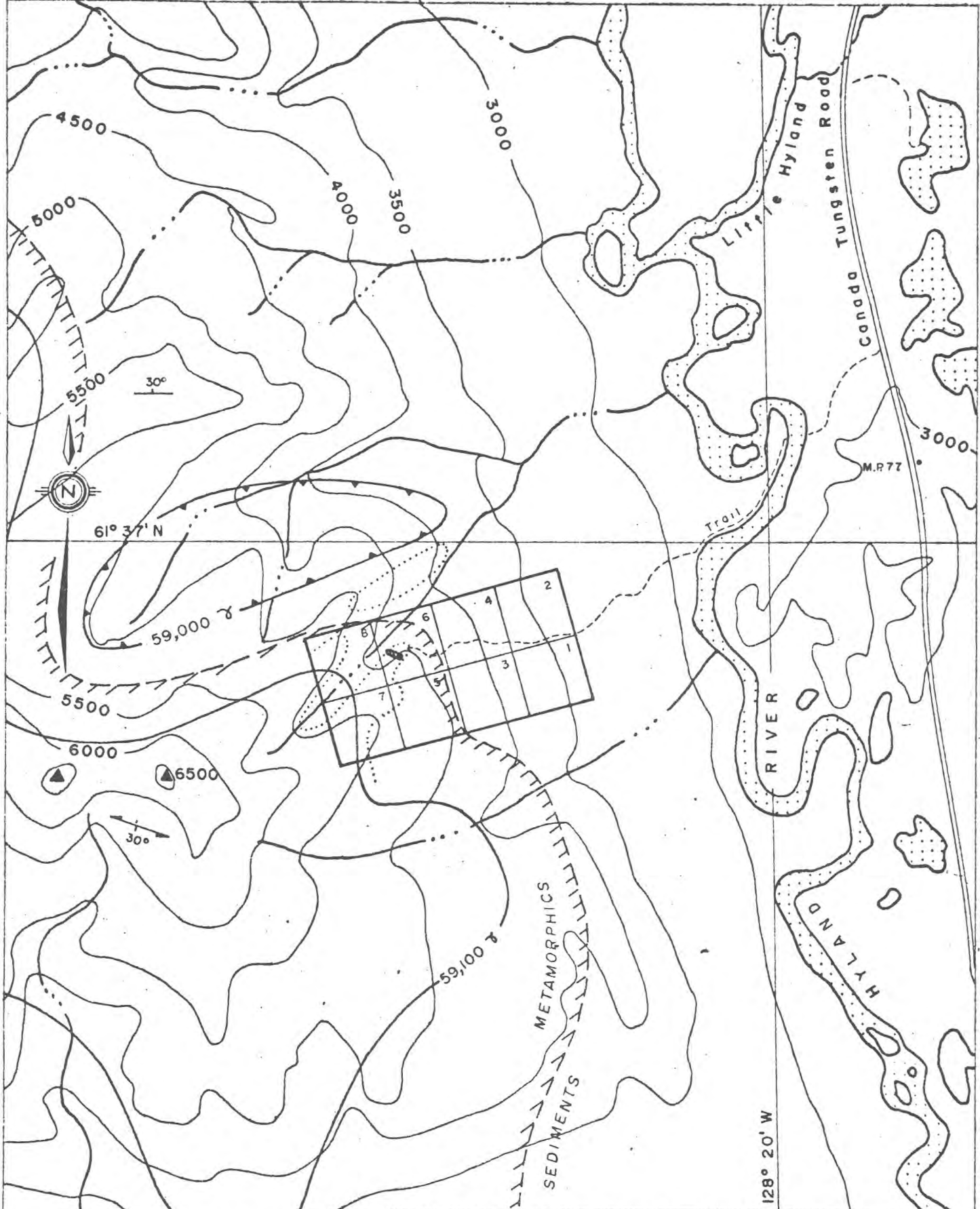
Vancouver, B.C.
March 1, 1972.




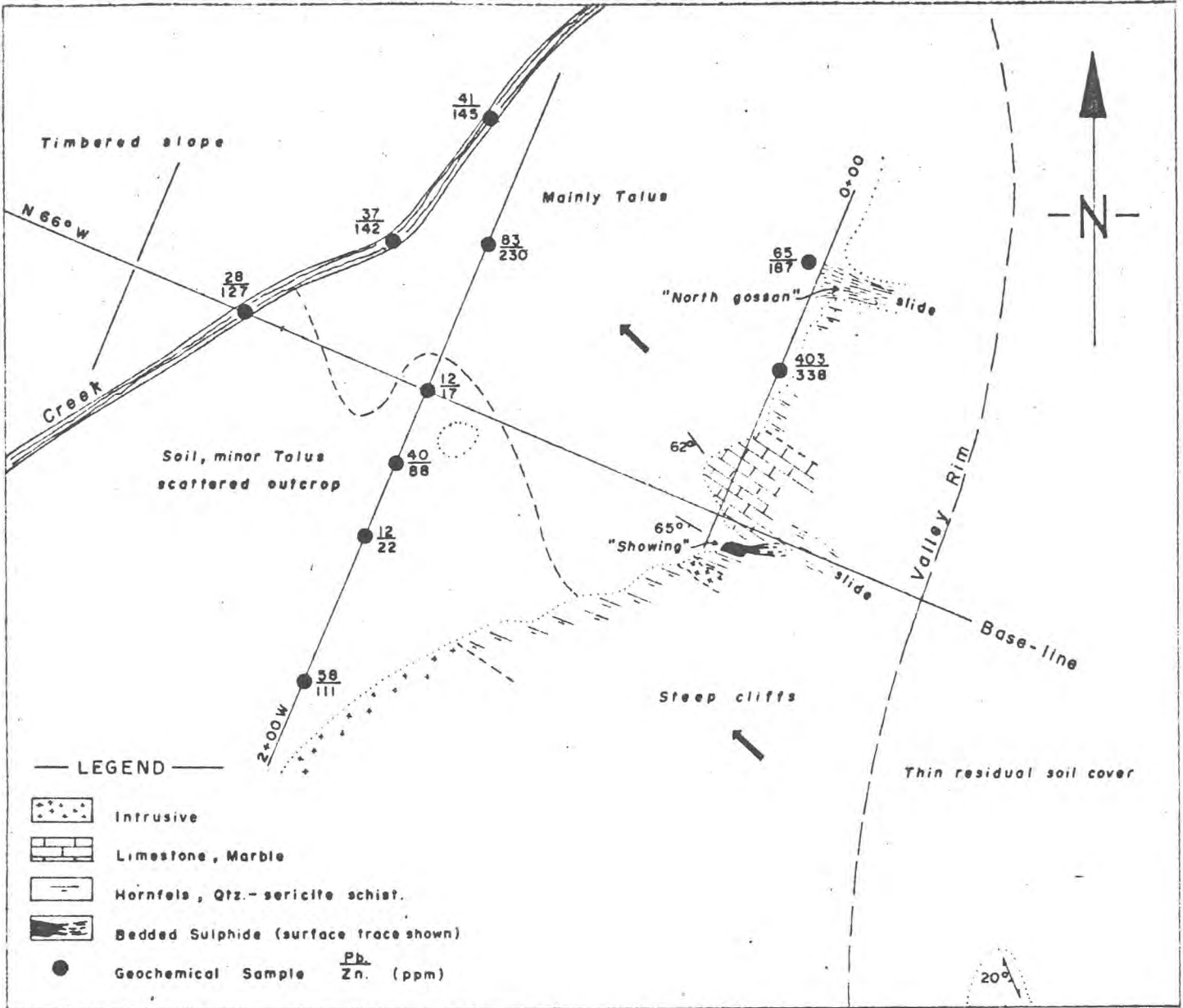
— LEGEND —

- ▲ CANADA TUNGSTEN MINE - W, Cu.
- ★ BROD GROUP - Pb., Zn.
- ▼ Pb. Zn. Ag. - Prospect
- Cu. Prospect

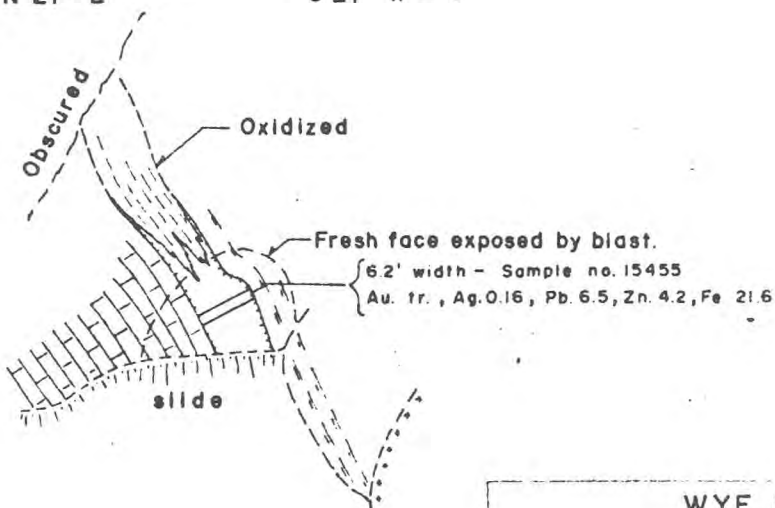
WYE LAKE RESOURCES LTD	
PROPERTY LOCATION MAP	
Peter H. Sevensma Consultants Ltd., Vancouver, B.C.	
Feb. 1972	Scale: 0 miles 1:25000 32 Fig: 1



WYE LAKE RESOURCES LTD.
 BROD GROUP - Claims, Access, Topography
 Watson Lake M. D. 105 - H - 9
 Peter H. Sevensma Consultants Ltd., Vancouver, B.C.
 July 1971 Scale: 0  1/2 mi Fig: 2



← N 27° E S 27° W →



SKETCH OF "SHOWING"
 1" = 20'

WYE LAKE RESOURCES LTD.

BROD GROUP - SHOWING

Watson Lake, M.D.

105-H-9

Peter H. Sevensma Consultants Ltd., Vancouver, B.C.

NOV. 1971

Scale: 0 _____ 100'

Fig: 3

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. **71-80-005** DATE **August 20, 1971**
SAMPLES SUBMITTED BY **S. Atkins** COMPANY **P.H. Severson Consultants Ltd.**
SHIPPED VIA **Harrison Airways** FROM
REPORT ON **10 samples for Zn & Pb** DATE SAMPLES ARRIVED **August 16, 1971**

* * *

COPIES OF THIS REPORT SENT TO:

- (1) **Vancouver Office**
- (2) **S. Atkins c/o VanGeoChem Lab
Dease Lake, B. C.**
- (3)

TRANSMITTED BY:

Mail

Mail

SAMPLES SIFTED OR GROUND TO **-80** MESH WEIGHT USED **0.50 g**
FINAL VOLUME **10 ml** ALIQUOT USED **n/a**

* * *

METHOD OF ANALYSIS: **Instrumental - Atomic Absorption**

EXTRACTION: **Hot HClO₄ - HNO₃ Digestion**

DETECTION: **Techtron AA4 and AA5**

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: **filed**
(b) REJECTS: **discarded**

* * *

ANALYST(S) **S. Le, G. A.** TYPIST **EM**

SUPERVISING CHEMIST **L. Hool** CHECKED BY **E. CHIN**

COSTS:

SHIPPING CHARGE	\$	---
SAMPLE PREPARATION	\$	2.00
ANALYSIS	\$	15.00
OTHER	\$	---
TO T A L	\$	17.00

SPECIALIZING IN TRACE ELEMENT ANALYSIS

CYPRUS EXPLORATION CORPORATION, LTD.

510 WEST HASTINGS STREET
VANCOUVER 2, BRITISH COLUMBIA
TELEPHONE: 683-9304

June 9, 1972

Dr. P. H. Sevensma,
P.H. Sevensma Consultants Ltd.
#715 - 850 West Hastings St.,
VANCOUVER 1, B.C.

Dear Dr. Sevensma:

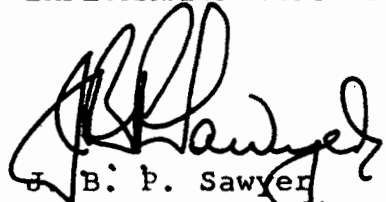
I am returning herewith your reports on the Wye Lake Resources Ltd. Brod Claims, and on the Corrie Copper Ltd. (N.P.L.) Corrie Group, Watson Lake Mining Division, Yukon, which I believe were given to Glenn Simpson and/or Gregg Jilson of our staff for review.

They have reviewed these reports, and on the basis of this information, we will be unable to put any high priority on further follow-up work. I believe Dr. Simpson has indicated to you that he would try to get a look at the showings on the Brod claims when he is in the Yukon later this summer. If you have no objection to this and if we have any further interest as a result of his field examination, we will contact you again later.

We thank you for making these reports available.

Yours very truly,

CYPRUS EXPLORATION CORPORATION, LTD.



J. B. P. Sawyer
Manager - Canadian Exploration

JBPS/jel

Encls.