



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, 1971.

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$ 723.00

M. W. Martin (Jr.)

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

[Signature]
Commissioner of Yukon Territory

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ILLUSTRATIONS

Fig. 1 - Property Location	1" = 32 miles
Fig. 2 - Claim, Access, Topography	1" = 1/2 mile
Fig. 3 - Mineral Showing	1" = 100 feet

APPENDIX (1)

Analytical Report - Geochemical

AFFIDAVIT

Statement of Costs Incurred and Personnel Employed

CERTIFICATE

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

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

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 6, 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 chalcopyrite 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. Sevonsma, Ph.D., P.Eng.

Vancouver, B.C.
 March 1, 1972.

CERTIFICATE

I, PIETER H. SEVENSMA, of 908-1280 Haro St., in the City of Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with a business address at 715-850 West Hastings Street in the City of Vancouver in the Province of British Columbia.
2. THAT I am a graduate of the University of Geneva, Switzerland (Physics and Chemistry 1937; Geology and Mineralogy, 1937) where I obtained my Ph.D., in Geological and Mineralogical Sciences in 1941.
3. THAT I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia and of the Association of Professional Engineers of Yukon Territory.
4. THAT I have practiced my Profession as a Geologist for the past 33 years.
5. THAT I have not personally examined the property covered by the Brod group of claims but that I am familiar with the area having examined on various occasions over the past 15 years a number of properties within the same general area.
6. THAT I am acquainted with and have supervised work done by Mr. Aikins for a number of years and that I endorse the content of the attached report.

Vancouver, B.C.
July 17, 1972.



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

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. Aikins COMPANY P.H. Sevensma 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. Aikins 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.L., G. A. TYPIST km

SUPERVISING CHEMIST L. Nicol CHECKED BY *[Signature]*

COSTS:

SHIPPING CHARGE	\$	---
SAMPLE PREPARATION	\$	2.00
ANALYSIS	\$	15.00
OTHER	\$	----
TOTAL	\$	17.00

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE

NORTH VANCOUVER, B.C. CANADA

TELEPHONE 604-988-2172

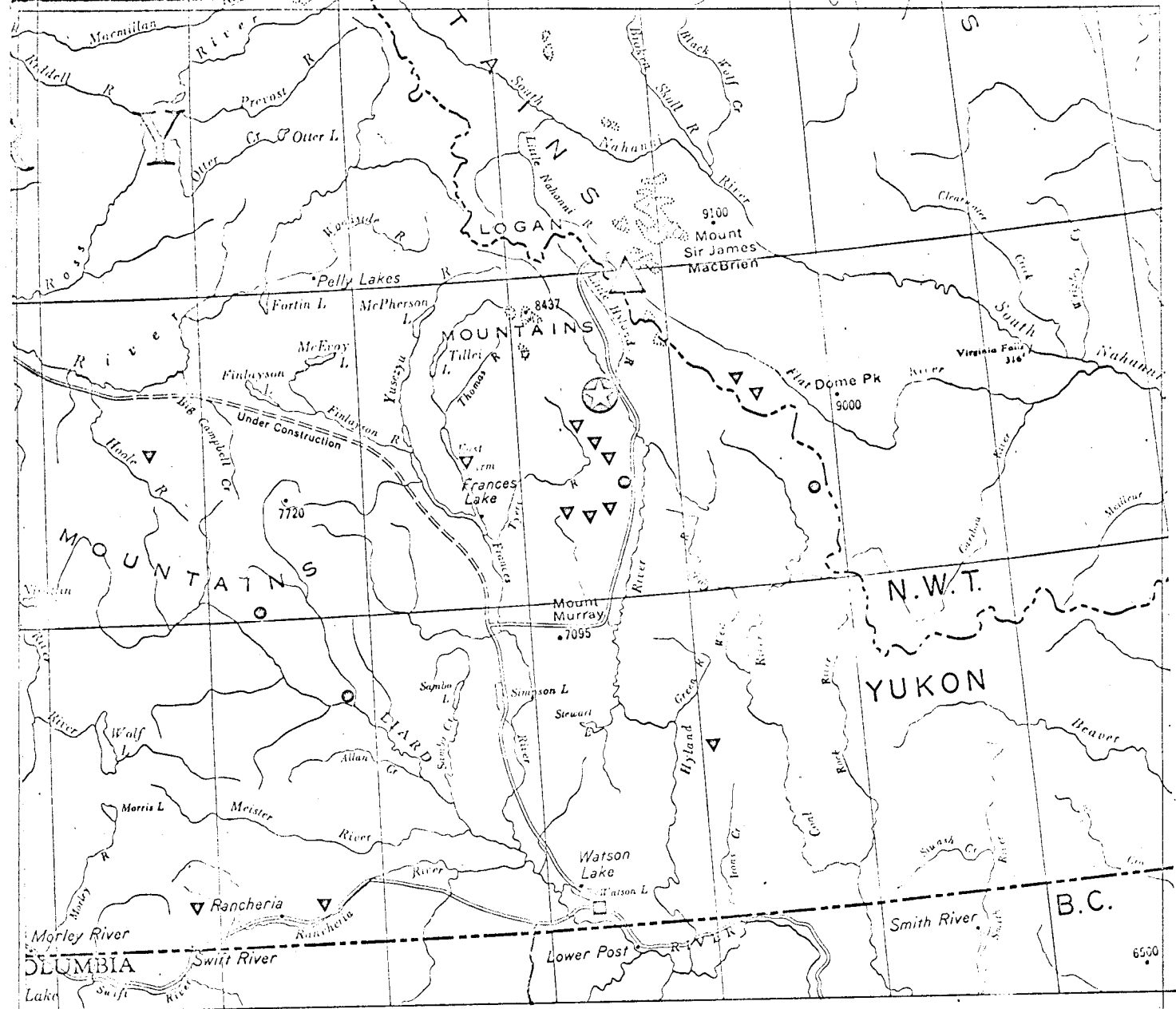
71 - 80 - 005

COMPANY P.H. Sevensma Consultants.. REPORT No. PAGE 1 OF 1

MARKING	Zn	Pb			MARKING				
Creek Silt @ BL	127	28							
1 + 00N	142	37							
Creek Silt @ 2 + 00N	145	41							
L0 + 00 - 1 + 00N	338	403							
BL - 2 + 00W	17	12							
2+00W - 0 + 50S	88	40							
1 + 00S	22	12							
2 + 00W - 2 + 00S	111	58							
L2 + 00W - 1 + 00N	230	83							
North Gossan	187	65	carbonate						

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

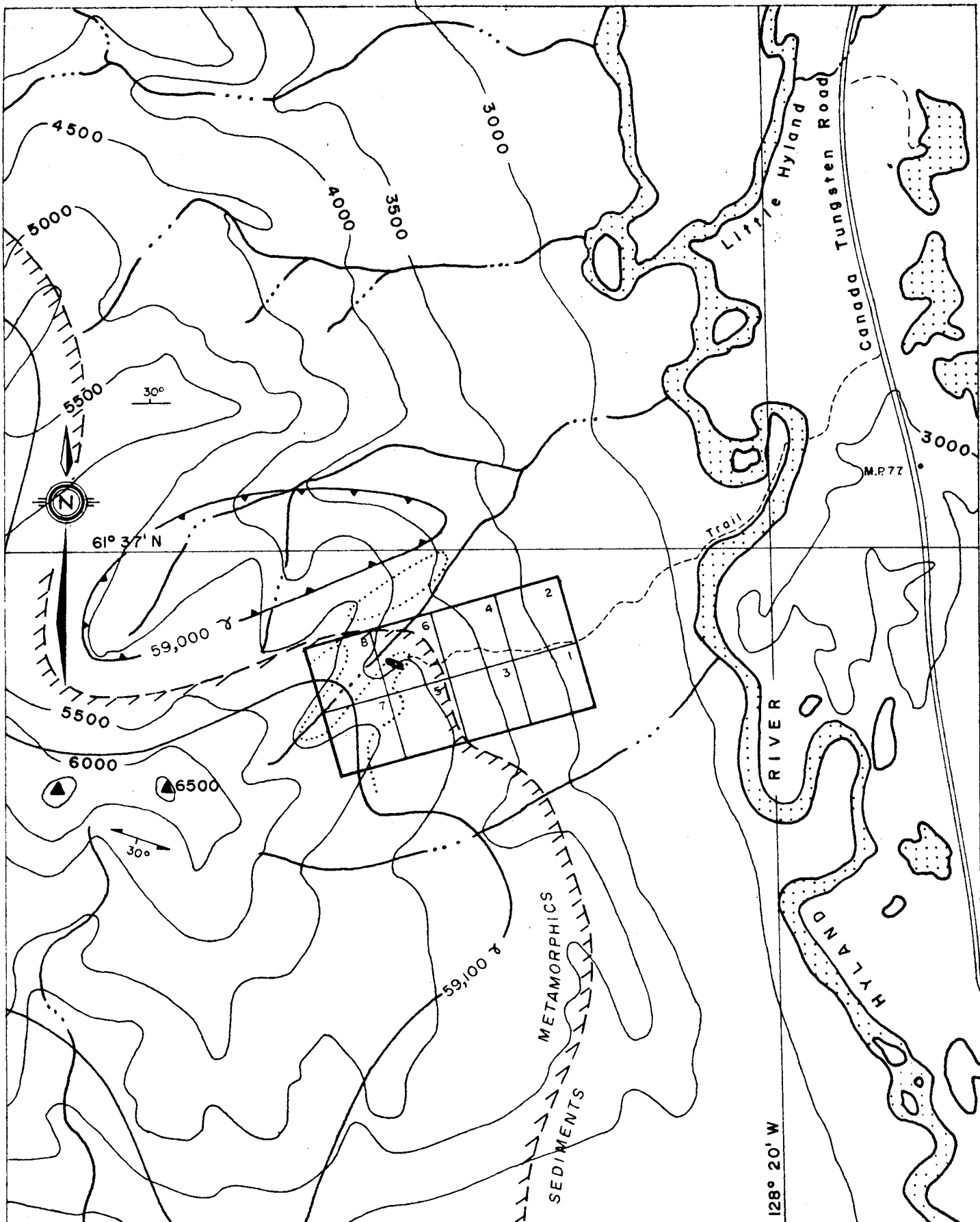



132° 131° 130° 129° 128° 127° 126°

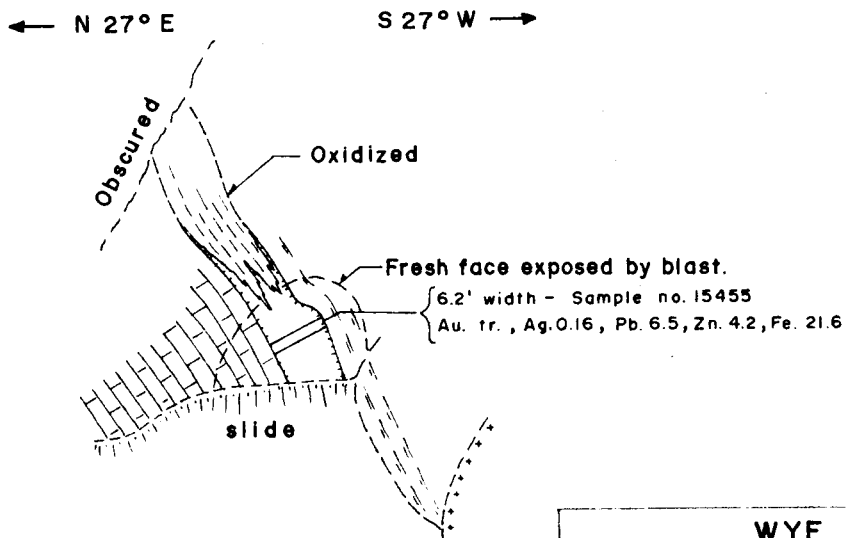
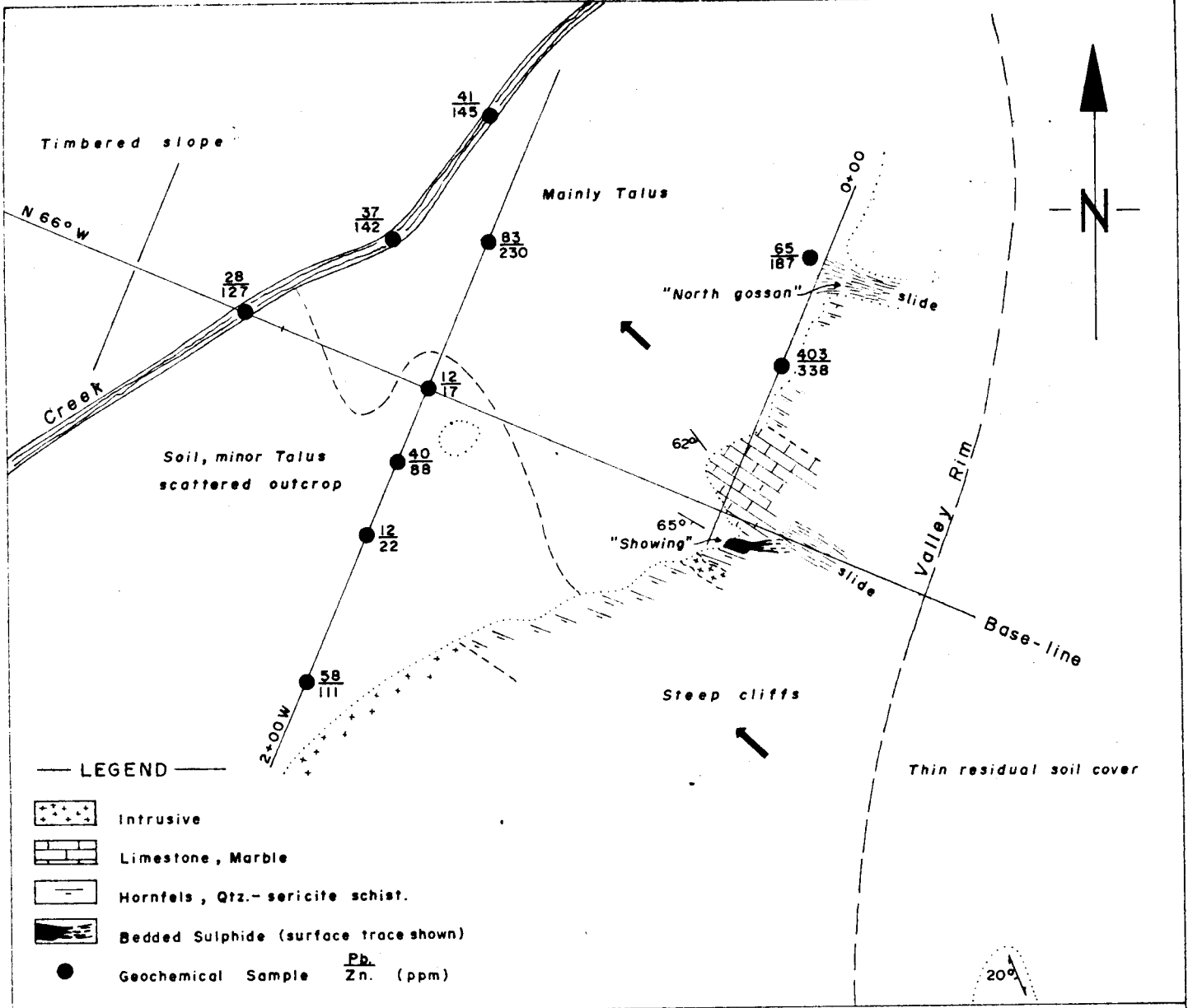
— LEGEND —

- △ 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 <u>32</u> 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: 1



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

CANADA) IN THE MATTER OF A GEOLOGICAL REPORT
)
YUKON TERRITORY) ON THE BROD GROUP OF MINERAL CLAIMS
)
TO WIT:)

I, Harold S. Aikins,
of, 715 - 850 West Hastings Street,
Vancouver 1, B. C.

HEREBY MAKE OATH AND SAY AS FOLLOWS:-

That attached hereto, this my Affidavit, marked
Appendix "A" and "B" respectively is a list of personnel
employed in the performance of the work and a statement of
the costs incurred for this work which I certify to be correct
to the best of my knowledge and belief.

SWORN before me at the)
)
City of Vancouver,)
)
Province of British Columbia,)
this 21st day of July, 1972)

H. S. Aikins

[Signature]

A Commissioner for taking Affidavits
within British Columbia

APPENDIX "A"

Statement of Personnel Employed in
Geological and Geochemical Survey of
the Brod 1 - 8 Mineral Claims.

P. H. Sevensma, Ph.D., P.Eng.
908 - 1280 Haro Street,
Vancouver, B. C.

Supervision and review
of data and report.

H. S. Aikins,
822 West 27th Avenue,
Vancouver, B. C.

Sr. Technician.
Field work - August 22-24, 1971
Report preparation - Feb. 1971.

E. Brodhagen (Jr.)
Watson Lake, Y.T.

Linecutter
3 days - August 22-24, 1971.

M. Lutz,
Lower Post, B. C.

Linecutter, prospector
3 days - August 22-24, 1971.