



1982

GEOLOGICAL and GEOCHEMICAL REPORT

on the

POON CLAIM GROUP

Whitehorse Mining District

by

T. W. Canam,
Geological Assistant,
United Keno Hill Mines Limited,
409 Black Street,
Whitehorse, Yukon



Dated: September 20, 1982

N. T. Sheet: 1151-7
Latitude: 62° 17' N
Longitude: 136° 35' W
Dates: Sept. 3 to 9, 1982

091087

This report has been examined by
the Geological Exploration Act
under Section 58 (4) Yukon Quartz
Mining Act and is allowed to
represent the work to the amount
of \$ 2000—

P. Watson

for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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SUMMARY and CONCLUSIONS:-

Copper mineralization (malachite) was found on July 7th by a two man geochemical crew while running reconnaissance lines north of Freegold Road.

Two zones of foliated granodiorite with malachite staining have been found on the claim group.

It is difficult to ascertain the extent of the two mineralized zones due to a lack of outcrop but geochemical results indicate that the occurrences are small and limited in size.

Due to limited time the work was concentrated adjacent to the copper occurrences.

RECOMMENDATIONS:-

It is recommended that further geochemical and geological investigations be conducted in the area and the main zone be investigated by trenching.

INTRODUCTION:-

An area some 30m x 60m of strongly foliated granodiorite with malachite was discovered on July 7th by a 2 man geochemical crew while running reconnaissance soil sample lines along ridge tops north of the Freegold Road.

Later in the season, between September 3rd and 9th, a two man crew investigated the area with a geochemical grid and limited prospecting.

On September 8th, four(4) claims, POON 1 to 4 were staked to cover the main occurrence. A heliport was also established on the showing.

LOCATION and ACCESS:-

The POON Claim Group lies approximately 195 Km (121 miles) north northwest of Whitehorse or 1.5 Km south of the eastern end of Merrice Lake (Figure 1). It is located on N.T.S. Sheet 115I-7 at latitude 62° 17' N and longitude 136° 35'W.

The claim is also accessible by foot from the Freegold Road, a distance of some 1.5 Km.

PROPERTY:-

The POON Claim Group consists of 4 contiguous full claims (Figure 2) as follows:

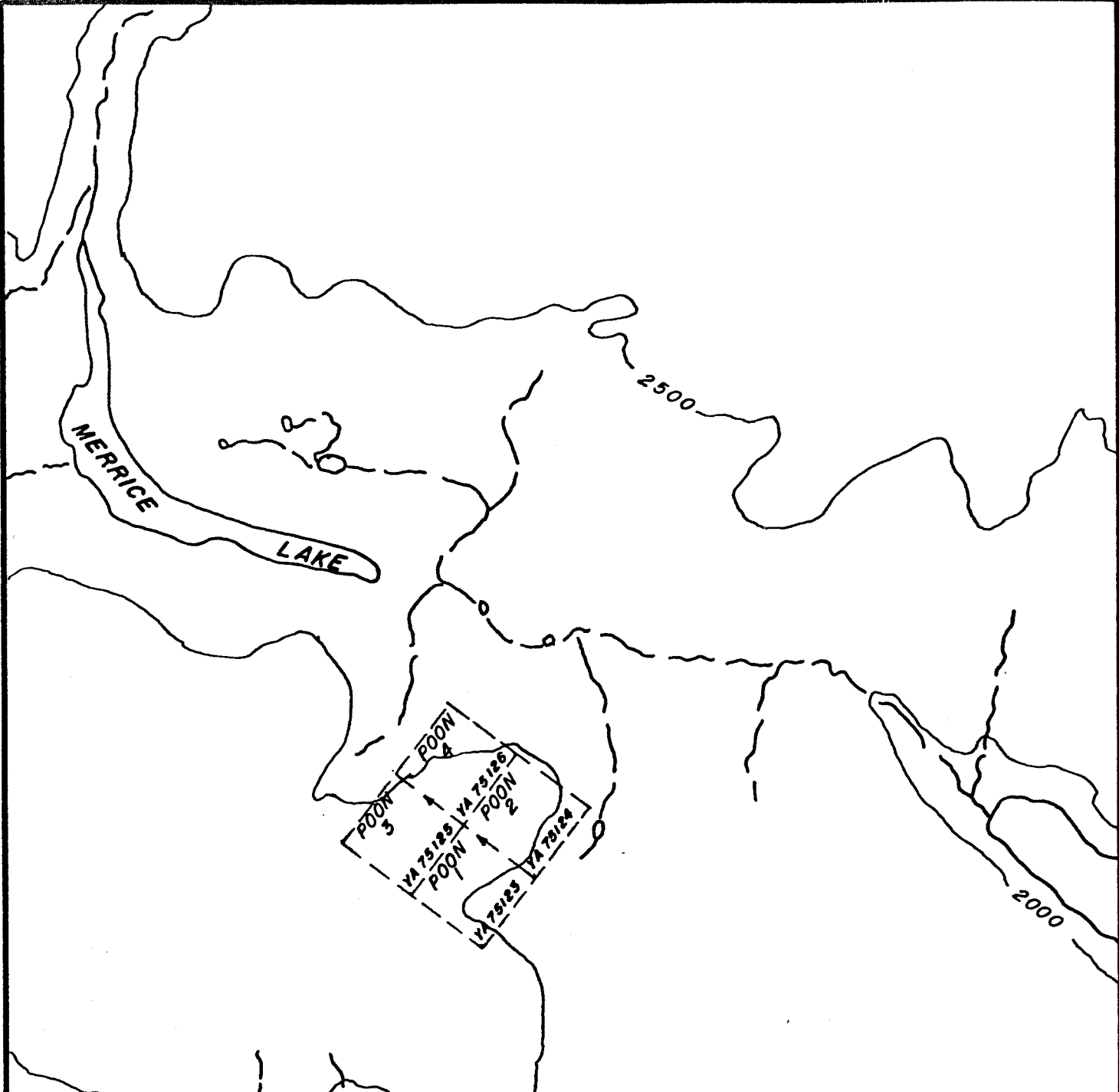
<u>CLAIM NAME</u>	<u>GRANT No.</u>	<u>EXPIRES</u>	<u>LOCATION</u>	<u>N.T. SHEET</u>
POON 1	YA75123	13 Sept./83	Merrice Lake	115I-7
POON 2	YA75124	"	"	"
POON 3	YA75125	"	"	"
POON 4	YA75126	"	"	"



Figure 1

UNITED KENO HILL MINES LTD.
 EXPLORATION DEPARTMENT
 WHITEHORSE, YUKON

LOCATION MAP
POON CLAIM GROUP
 1 : 250,000



UNITED KENO HILL MINES LTD.
EXPLORATION DEPARTMENT
WHITEHORSE — YUKON

POON CLAIM GROUP

Mining District **Whitehorse**
N.T.S. Sheet No. **115 I - 7**
Scale **1 inch = 1/2 mile**

Drawn by **R. E. V.**

Date **10 Sept 82**

62° 15'

136° 35'

PHYSIOGRAPHY:-

The claim group lies in a semi mountainous area with elevations in the general area ranging from 2,300 to 2,900 feet and on the property from 2,400 to 2,700 feet.

Hills and ridges are well rounded. Outcrop is generally sparse and restricted to ridge tops and steep slopes. There is less than 1% outcrop.

South and southwesterly slopes are generally grass covered with sparse to dense poplar growth.

The claim group generally covers a northeast-southwest trending ridge with work limited to the immediate area of the showing.

GEOLOGY -

(a) GENERAL GEOLOGY:-

The claims are underlain by porphyritic granodiorite-monzonite that is cut by aplite dykes and a latite porphyry dyke.

The granodiorite is medium to coarse grained with approximately 20% mafics. The mafics consist of hornblende and biotite. Most of the granodiorite has a hornblende to biotite ratio of 3:1. Some of the granodiorite is biotite rich with very little hornblende.

The latite porphyry is bieve pink with an aphanitic groundmass. 3 to 4 mm quartz eyes make up approximately 1% of the rock.

The rocks are generally non-foliated to weakly foliated with the exception of the main showing which is strongly foliated with a dip of 20° northeast.

(b) MINERALIZATION:-

ZONE 1 - The main showing has an approximate strike length of 100m and a maximum width of 20m. The contact undulates along strike and the degree of malachite mineralization varies throughout the zone but seems to be confined to the biotite sections.

The zone strikes 294° and dips 20° northeast.

ZONE 2 - This zone has a strike length of 10m and a width of 3-5m. This zone is weakly mineralized with malachite. The hornblende to biotite ratio in this zone approaches 1:1 but is generally 1:3. Malachite is found along the fracture surfaces and in the grain of the rock.

The mineralized zones are more silicic than unmineralized granodiorite.

GEOCHEMICAL SURVEY -

(a) GENERAL:-

A sample grid was laid out to cover the Main Showing (Zone 1). The main claim baseline at 294° was used for control and lines were run suited to topography and ground conditions.

The sample lines were run employing a toposil chain and Silva compass. Mattocks were used to dig the samples with. A strong effort was made to obtain only B horizon samples.

A total of 181 samples were collected and they were analyzed for copper only by Bondar-Clegg's Whitehorse laboratory.

(b) RESULTS:-

Of the 181 samples collected only 6 returned results over 50 ppm copper. The highest value returning 620 ppm.

It can be simply stated that the geochemical results reflect that the malachite bearing zones would appear small and limited in their size.

REFERENCES:-

Bostock, H. S., 1936 - Memoir 189, Carmacks District.

Templeman-Kluit, D. J., 1974 - Compilation Map of Carmacks Area,
115I, G.S.C. Open File 200.

Templeman-Kluit, D. J., 1976 - The Yukon Crystalline Terrane:
Enigma in the Canadian Cordillera, G.S.A.
Bulletin V87, pages 1343-1357, September, 1976.

APPENDIX A

PROJECT COSTS FOR POON CLAIM GROUP

GEOLOGICAL & GEOCHEMICAL:-

Company labour 2 men for 1 week \$ 746.00

Contract Analysis 181 samples @ \$2.60 470.60

CAMP OPERATION:-

Food 233.22

AIRCRAFT:-

Helicopter Charter 2.8 hours @ \$500/hour
plus fuel 1,517.04

TOTAL \$2,966.86

APPENDIX B

PERSONNEL EMPLOYED

GEOLOGICAL & GEOCHEMICAL:-

T. W. Canam,
P. O. Box 569,
Pictou, Nova Scotia

Stephen McGibbon,
520 Frontenac Street, Apartment #1,
Kingston, Ontario
K7L 4M1

GEOCHEMICAL ANALYSIS By:-

Bondar-Clegg and Company Ltd.,
136B Industrial Road,
Whitehorse, Yukon
Y1A 4X1

HELICOPTER SUPPORT By:-

Dean Cameron,
Base Manager,
Trans North Air,
Carmacks, Yukon

SUPERVISED By:-

R. E. VanTassell,
Exploration Manager,
United Keno Hill Mines Ltd.,
409 Black Street,
Whitehorse, Y. T.
Y1A 2N2

APPENDIX C

STATEMENT OF QUALIFICATIONS

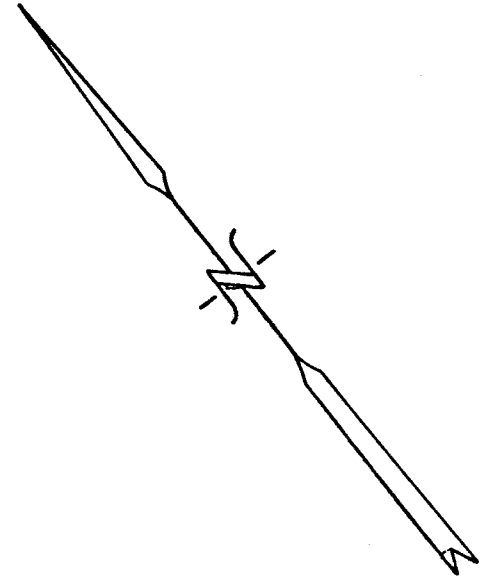
I, Robert E. VanTassell of Whitehorse, Yukon Territory do hereby certify that:

1. I am a geologist, residing at 13 Koidern Avenue, Whitehorse, Yukon Territory.
2. I have received a B. A. in Geology in 1958 from Mount Allison University.
3. I have attained the status of Fellow in the Geological Association of Canada and I am also a member of the Association of Exploration Geochemists.
4. I have been actively engaged in the mineral exploration field since 1956.
5. I am presently employed as Exploration Manager with United Keno Hill Mines Ltd.
6. I have supervised and am aware of the work and costs described in this report.

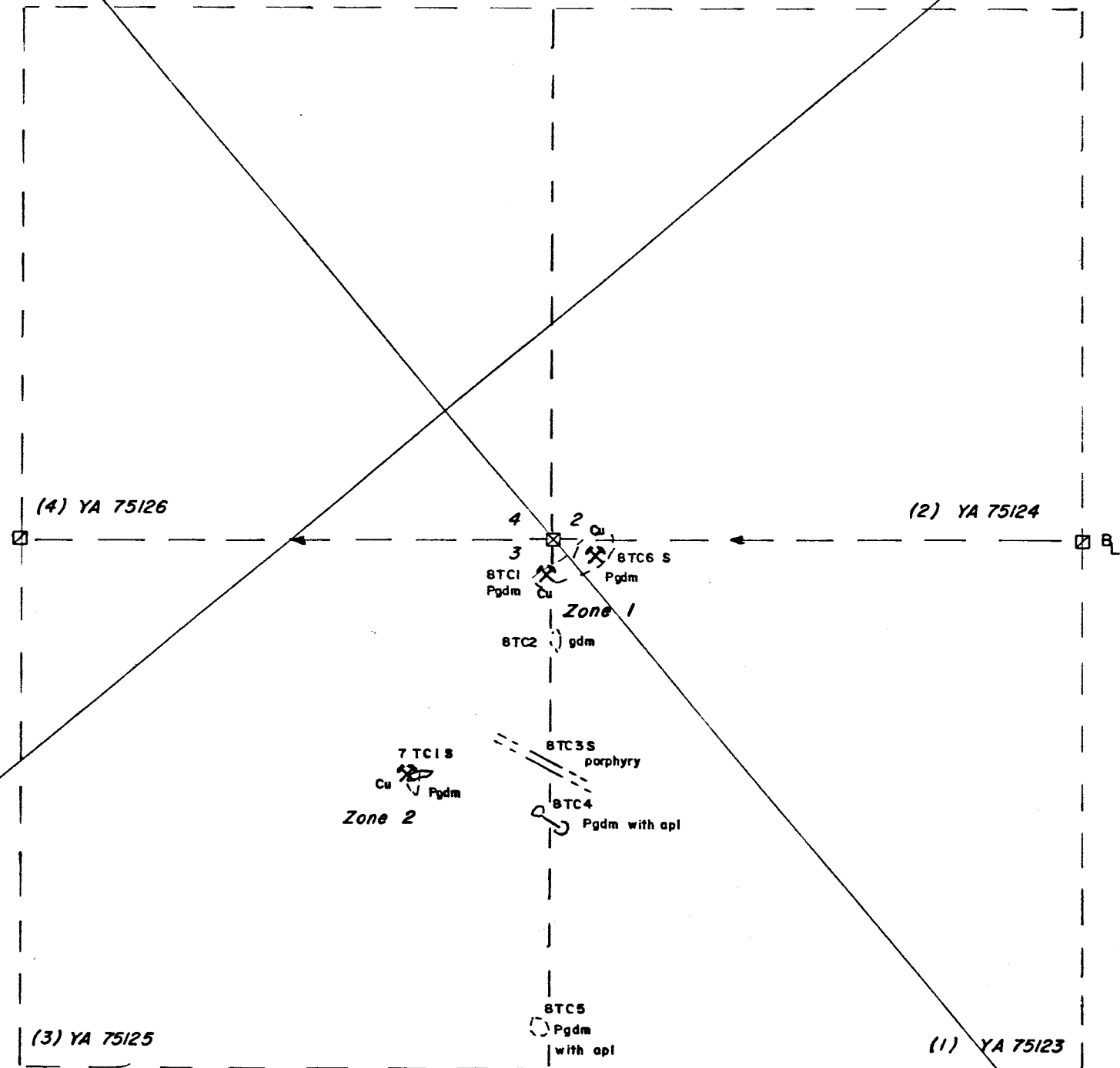
Dated at Whitehorse

this 20th day of September, 1982


Robert E. VanTassell



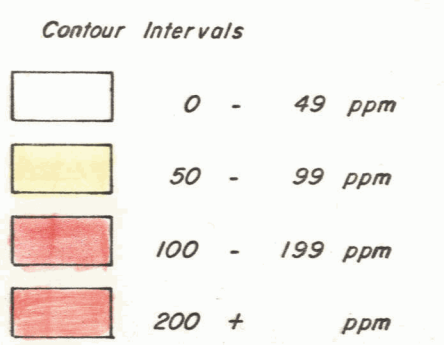
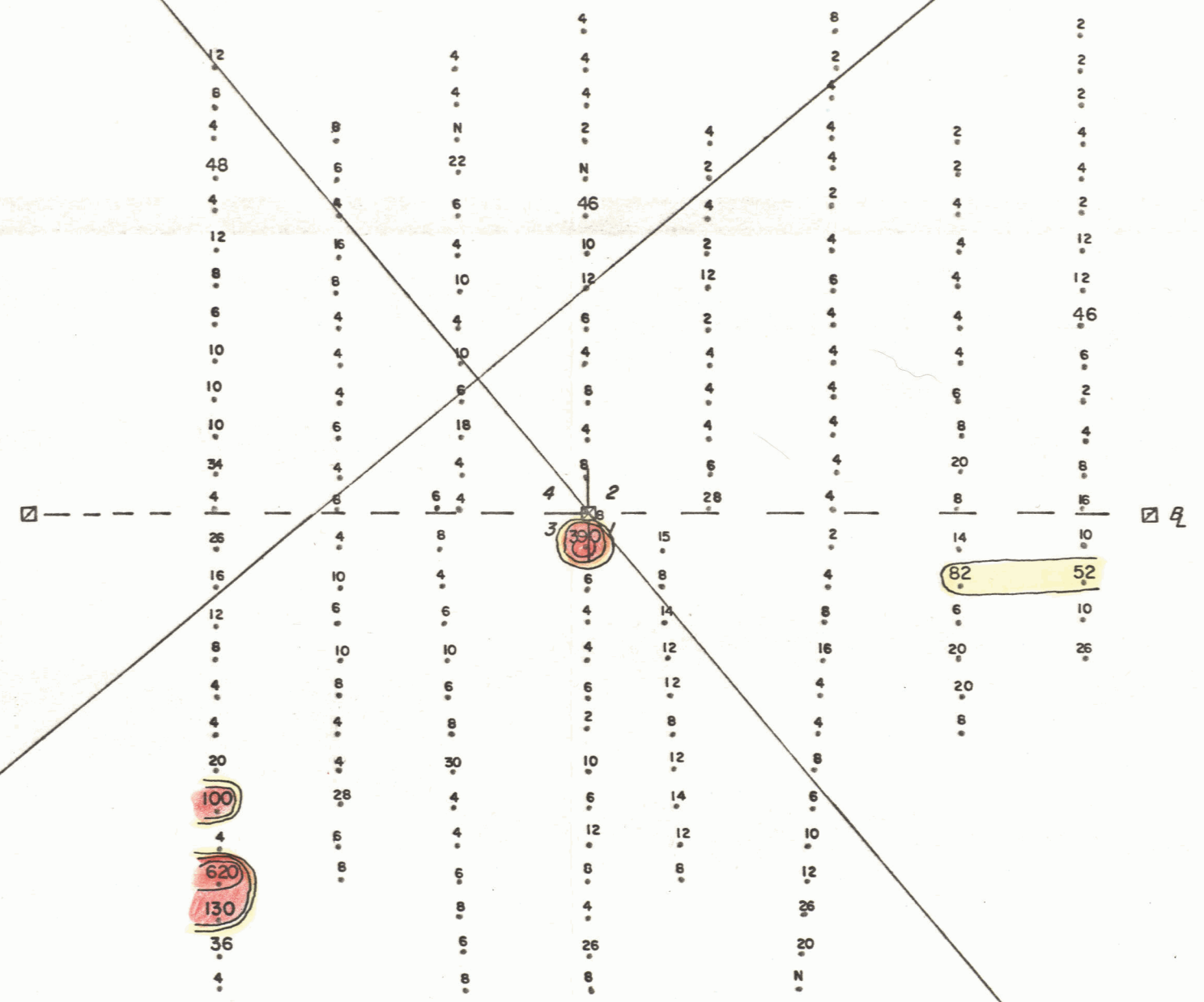
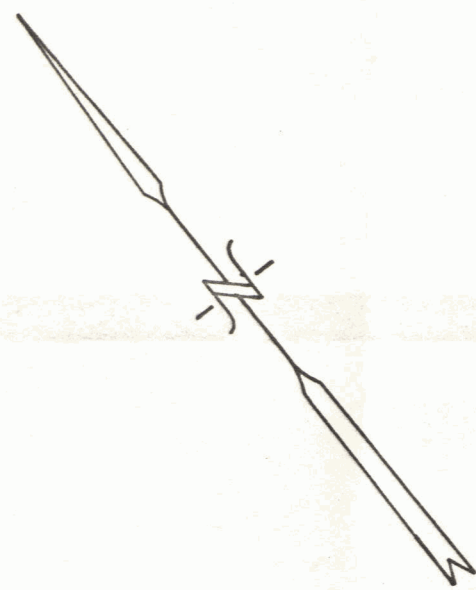
(P) gdm (porphyritic) granodiorite quartz monzonite
 opl oplite



UNITED KENO HILL MINES LTD. EXPLORATION DEPARTMENT WHITEHORSE - YUKON	
POON CLAIM GROUP GEOLOGY	
Mining District	WHITEHORSE
N.T.S. Sheet No.	115 - I - 7
Scale	1 : 5000
Drawn by	J.H.P.
Date	Sept. 17 / 1982

UTM 690600N

UTM 418000E



UTM 6906,000 N

UTM 418,000 E

UNITED KENO HILL MINES LTD. EXPLORATION DEPARTMENT WHITEHORSE - YUKON	
POON CLAIM GROUP GEOCHEMISTRY - COPPER Plot	
Mining District	WHITEHORSE
N.T.S. Sheet No.	115 - I - 7
Scale	1 : 5000
Drawn by	J.H.P.
Date	Sept. 17 / 1982