

EMPIRE MERCURY CORPORATION LTD.

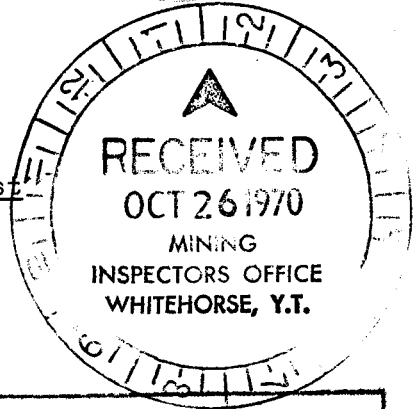
HOP CLAIM GROUP

Dawson Range - Yukon Territory

Whitehorse M.D. 115 J-15

Lat. 62° 45' North, Long. 138° 45' West

GEOCHEMICAL REPORT



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

\$ 5,000

D. B. Craig
Resident Geologist or
Resident Mining Engineer

by

Considered as representation work under
Section 58 (4) Yukon Quartz Mining Act

[Signature]
Commissioner of Yukon Territory

D. M. Scott, P. Eng.,
Vancouver, B. C.

PETER H. SEVENSMA CONSULTANTS LTD.
August 18, 1970.

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Fig. 2 - Frequency of Distribution - Copper

Fig. 3 - Claims and Sampling Grid

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EMPIRE MERCURY CORPORATION LTD.

HOP CLAIM GROUP

Dawson Range - Yukon Territory

Whitehorse M.D. 115 J-15

Lat. 62° 45' North, Long. 138° 45' West

GEOCHEMICAL REPORT

1. INTRODUCTION

At the request of Mr. D. Tully, Empire Mercury Corporation, an examination of the HOP claim group was carried out on August 13, 1970, in conjunction with a soil sampling programme conducted on behalf of Empire Mercury Corporation Ltd.

2. LOCATION AND ACCESS

The HOP claim group is located in the Dawson Range at approximately Latitude 62° 45' North, and Longitude 138° 45' West, at an altitude ranging from 3,000 feet to 3,700 feet.

The headwaters of Britannia Creek traverse the property.

The area of recent intensive drilling on the property of Casino Mines Ltd. is located three miles to the south-west.

Access is by fixed wing aircraft from Whitehorse to Casino, 196 miles, and thence by helicopter the remaining 3 miles; A road connecting the Casino Mines property with the Yukon River passes within two miles of the property.

3. PROPERTY

The HOP group consists of the following forty-two claims:

<u>Claim</u>	<u>Grant No.</u>	<u>Anniversary Date</u>
Hop 5 - 8	Y48917-20	January 22, 1971
Hop 9 - 12	Y48921-24	January 22, 1971
Hop 17-24	Y48925-32	January 22, 1971
Hop 25-30	Y48933-38	January 22, 1971
Hop 33-40	Y48939-46	January 22, 1971
Hop 41-48	Y48947-54	January 22, 1971
Hop 49-52	Y48955-58	January 22, 1971

All are presently owned by Empire Mercury Corporation Ltd. under terms of a purchase option made with the original stakers and their agents.

A previous ground examination by R.G. Hilker, P.Eng., February 11, 1970, confirmed the location of a number of claim posts; however the precise boundaries of the property, and the actual number of valid claims is in question due to undetermined overlap to the north and to the west on prior staking. Nevertheless it is apparent that the staking has been done in accordance with the requirements of the Yukon Quartz Act, and property locations are in general agreement with those shown on Claim Sheet 115-J-15.

4. GEOCHEMICAL RECONNAISSANCE

A cut and picketed base line was extended across the property in an east-west direction for 8,800 feet, and picketed cross-lines set off at 800 feet chained intervals to the north

and south. Samples were taken at 200 foot intervals at an average depth of 6" for a total of 423 samples.

Field work was done by B. Fitch and Associates of Whitehorse during the period July 21 - July 30, 1970. All samples were analysed by the Whitehorse Assay Office using standard atomic absorption techniques.

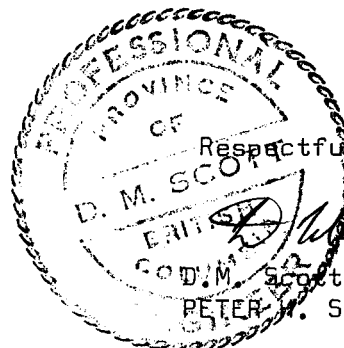
Results of this analysis show copper values ranging from 6 ppm. to 44 ppm. However no values behind a trace were recorded for molybdenum.

A plot of frequency distribution (fig.2) indicates a background value in the range 18 - 20 ppm. copper and a threshold of 40 ppm. Only one sample registers greater than 36 ppm. copper.

5. CONCLUSIONS AND RECOMMENDATIONS

Whilst the HOP claim group is located in close proximity to Casino Mines Ltd. and is underlain by the Klotassin intrusive which hosts the Casino mineralization, it is concluded that no significant mineralization is present at, or near, surface.

Nevertheless, it is recommended that the property be retained in good standing pending further developments in the Casino area.



Respectfully submitted,

D. M. Scott
D. M. Scott, P. Eng.

PETER W. SEVENSMA CONSULTANTS LTD.

August 18, 1970.

References:

1. Hilker, R. G. Geological Evaluation, Hop Claim Group, February 13, 1970.
2. Cairnes, D.D. Geological Survey of Canada Summary Report, 1916.
5. Bostock, H.S. Preliminary Map - Selwyn River, G.S.C. paper 44-34.
6. Archer, A.R. Main, C.A. Casino, Yukon - A Geochemical Discovery of an Unglaciaded Arizona type Porphyry
Date ?

CERTIFICATE

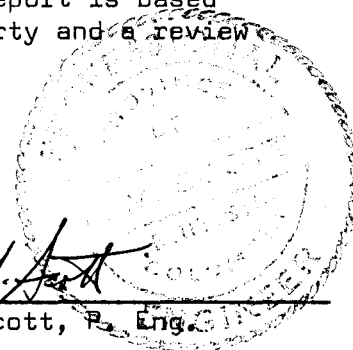
I, DAVID M. SCOTT of WEST VANCOUVER, B. C. do hereby certify:

1. That I am a Mining Engineer, residing at 1765 Duchess Avenue, West Vancouver, B. C.;
2. That I am a graduate of the University of Toronto and the Camborne School of Mines, Cornwall England;
3. That I have practised my profession for fifteen years;
4. That I am a member in good standing with the Association of Professional Engineers of British Columbia;
5. That I have no interest in the property nor in any securities pertaining thereto and that I do not expect to receive any such interest;
6. That the information contained in this report is based upon a personal examination of the property and a review of reports pertaining to the property.



D. M. Scott

D. M. Scott, P. Eng.



Vancouver, B. C.
August 19, 1970.

APPENDIX "A"

LIST OF PERSONNEL EMPLOYED

ON THE HOP GROUP

Consulting Geologist	-	P.H. Sevensma, Ph.D., P.Eng., 715-850 West Hastings St., Vancouver 1, B. C.
Geological Services	-	D. Scott, P.Eng., Geologist, P.H. Sevensma Consultants Ltd.
	-	H.S. Aikins, Technician, P.H. Sevensma Consultants Ltd.
	-	T. Oliveric, Draftswoman, P.H. Sevensma Consultants Ltd.
Field Supervisor	-	Bernard Fitch, Box 753, Whitehorse, Y.T.
Samplers (1)	-	David Pontes, General Delivery, Whitehorse, Y.T.
(2)	-	Harold Bell, General Delivery, Whitehorse, Y.T.
(3)	-	Conrad Provender, General Delivery, Whitehorse, Y.T.

Time Distribution

Field Supervisor - B. Fitch	July 21 - July 30 incl. 1970.	10 days
Samplers 1, 2, 3	" " " "	10 days
Geologist, field examination - D. Scott	Aug. 13, 1970.	1 day
Office Work	Aug. 1 - 18, 1970 intermittant	18 days



APPENDIX "B"

Cost breakdown of work on
Hop Group, 115-J-15, Whitehorse M.D.

July 21 - August 18, 1970.

As billed by Peter H. Sevensma Consultants Ltd.

1. Fieldwork:

B. Fitch Contract, including air-fares, helicopter, camp operation, vehicle rental.	\$3000.00
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2. Services:

P.H. Sevensma 1/2 day @ \$150	\$ 75.00	
Geologist, D. Scott 5 days @ \$100	500.00	
Senior Technician, H.S. Aikins, 1 1/2 days @ \$100	150.00	
Drafting, 2 1/2 days @ \$55	137.50	
Typing, 1 day @ \$45	<u>45.00</u>	
		\$ 907.50

3. Expenses:

D. Scott, field expenses	\$ 41.36	
C.P.A., Vancouver - Whitehorse return	<u>166.00</u>	
		\$ 207.36

4. Miscellaneous Disburs.

Whitehorse Assay Office #A-301	\$637.50	
Trans North Turbo Air #6313	100.92	
Tintino Air Services #A-0022	175.10	
Riley's #121100, 121316, 122059	10.98	
Long Distance & Telegram tolls	23.37	
Xeroxing, 108 copies @ \$.20	<u>21.60</u>	
		<u>\$ 969.47</u>

TOTAL COST	\$5084.33 ✓
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Contract Price	<u>5000.00</u>
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Costs in excess of Contract	<u>\$ 84.33</u>
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M Peter H. Sawchuk Consultants Ltd.,
745 - 855 West Hastings St.,
Vancouver 1, B.C.

In account with Mr. B. Fitch,
Box 753, Whitehorse, Yukon.

Terms

Contract on Map Shows, completed	23,000.00		
Advance received on July 16, 1978 -	-1,500.00		
Balance		1,500.00	
Final payment received Sept. 11, 1978 -		1,500.00	
TOTAL AMOUNT RECEIVED		<u>23,000.00</u>	
Received payment in full:			
Signed:			
B. Fitch			
<i>Paid in full Sept 11/78</i>			
<i>Chq # 2233</i>			

[Handwritten signature]

PETER H. SEVENSMA CONSULTANTS LTD.

CONSULTING GEOLOGISTS
EXPLORATION & MINING

P.O. BOX 758
WHITEHORSE, Y.T.
PHONE: 667-2906

715 - 850 WEST HASTINGS ST.
VANCOUVER 1, B.C.
PHONE: 682-7155

INVOICE TO: Empire Mercury Corporation,
Attn: Mr. D. Tully,
282-569 Howe Street,
Vancouver, B.C.

DATE: August 27, 1978

Period: July 15 - August 27, 1978

Re: Kop Group

Kop Group fieldwork and Report
as per contract of July 14, 1978

35,000.00

Advance received July 15, 1978

2,500.00

ACCOUNT RENDERED

32,500.00

*Paid in full Sept. 11/78
(dep. 1015-478)*

Christie

TERMS: 30 DAYS — 1% PER MONTH CHARGED ON OVERDUE ACCOUNTS

P. H. Sevrensma

CANADA)
YUKON TERRITORY)
TO WIT:)

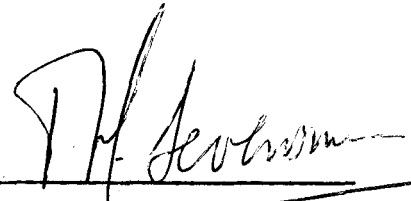
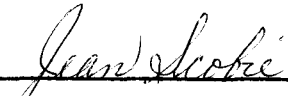
In the matter of expenditures and
personnel for a geochemical program
on the Hop Claims, Sheet 115-J-15
Whitehorse M.D.

I, PIETER H. SEVENSMA,
of #715 - 850 West Hastings Street, Vancouver, B.C.
do solemnly declare:

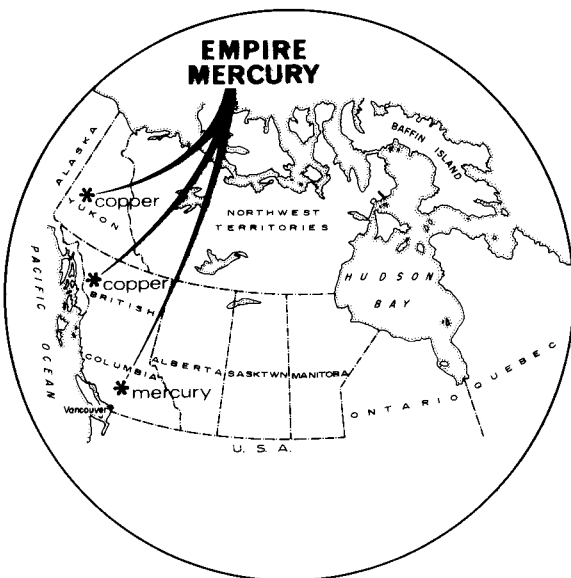
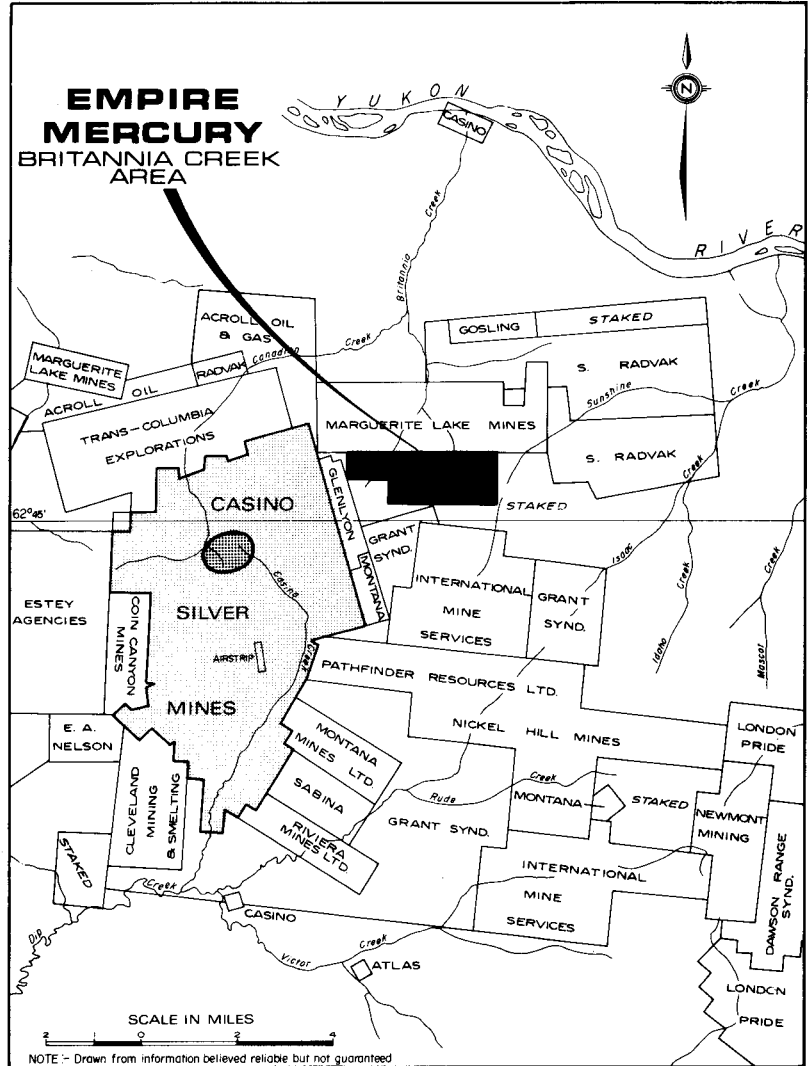
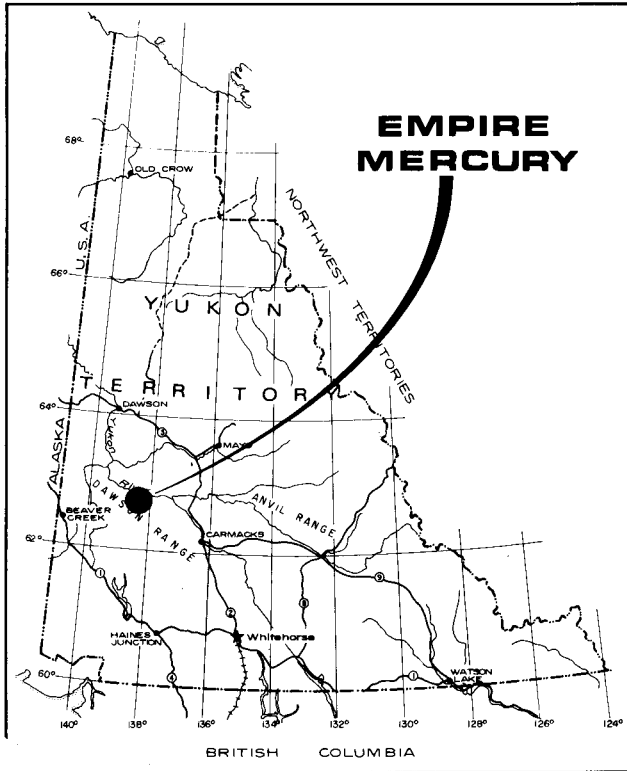
That hereto, my AFFIDAVIT and marked APPENDIX "A" and
APPENDIX "B" are attached statements of the personnel employed
in conducting the said work and expenditure incurred in carrying
out this work.

I declare the above to be true and accurate to the best
of my knowledge and I make this solemn declaration conscientiously
believing it to be true and knowing that it is of the same force
and effect as if made under oath and by virtue of the Canada
Evidence Act.

Declared before me at Vancouver, B.C.)
this 22nd day of)
October A.D. 1970.)


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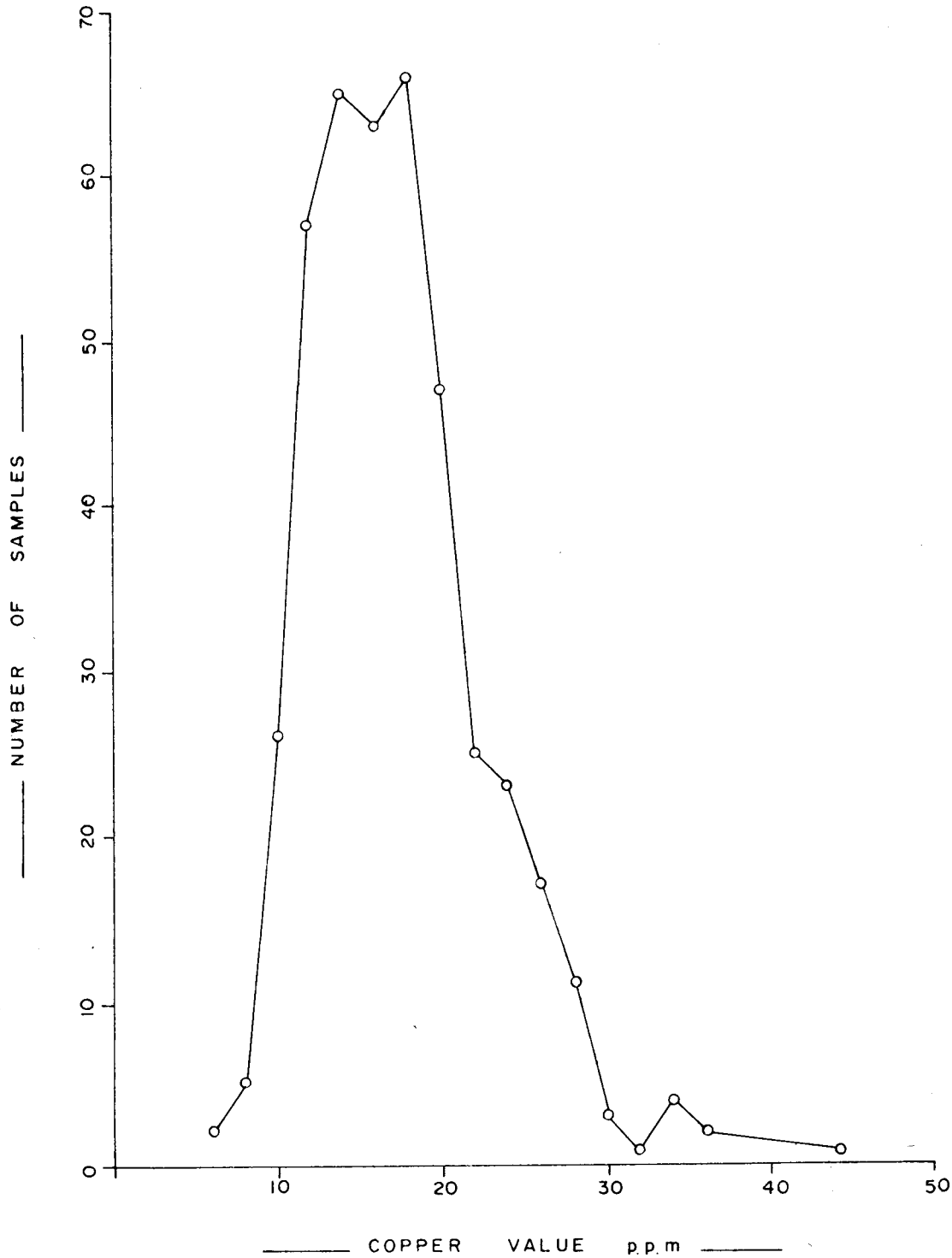
NOTARY PUBLIC IN AND FOR
THE YUKON TERRITORY



EMPIRE MERCURY CORP. LTD.

MAP SHOWING HOLDINGS
IN THE

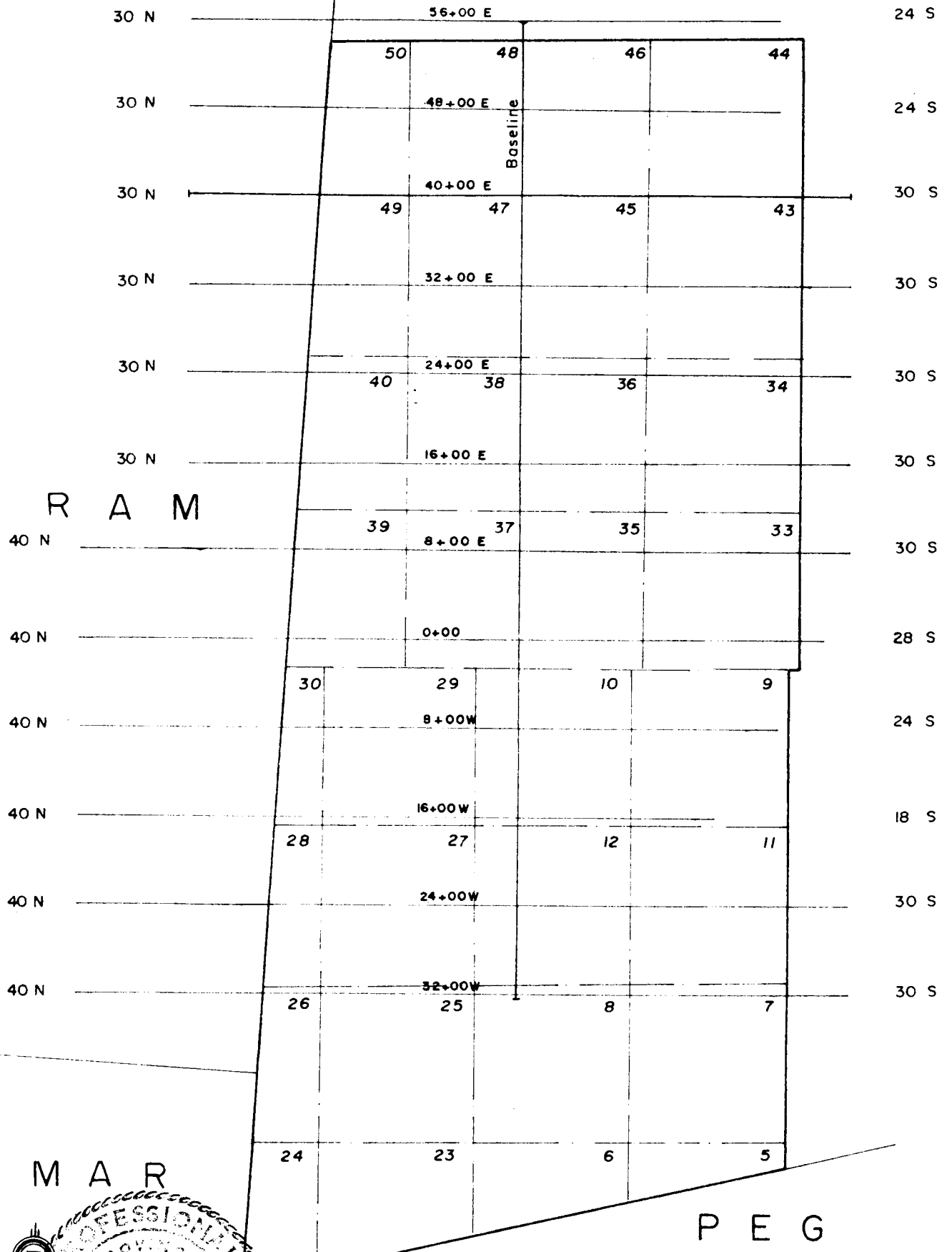
DAWSON RANGE AREA
YUKON TERRITORY



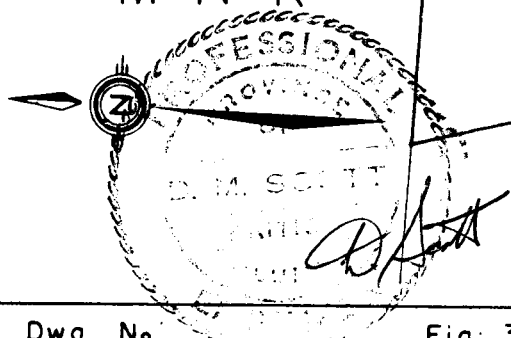
P. H. Sevensma

TOTAL SAMPLES
425

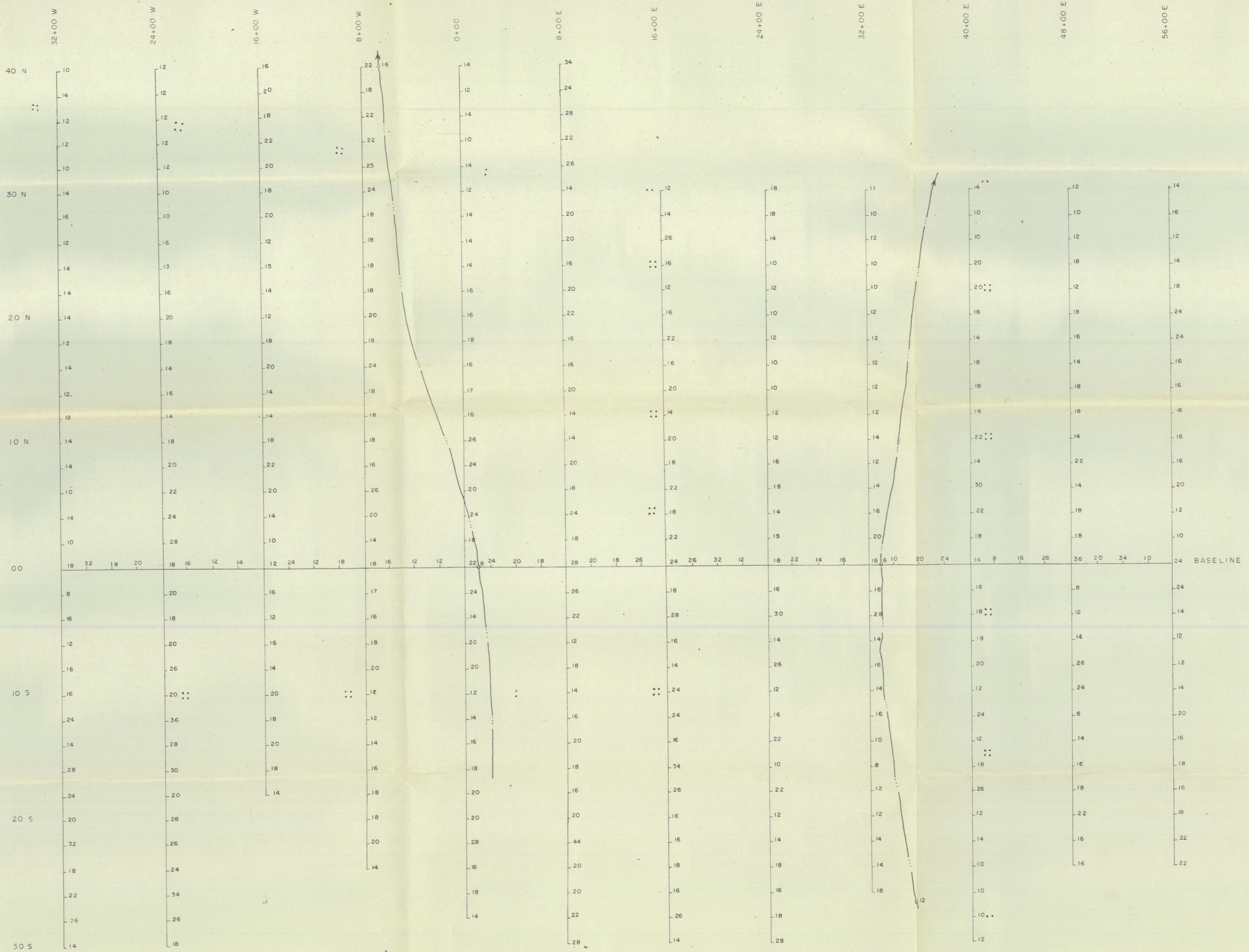
EMPIRE MERCURY CORPORATION LTD.	
HOP GR.—FREQUENCY OF DISTRIBUTION—COPPER VALUES	
Whitehorse M.D.—Y.T.	115—J—15
Peter H. Sevensma Consultants Ltd., Vancouver, B.C.	
Aug. 1970	Scale: 0 ————— 10' Fig: 2



M A R



EMPIRE MERCURY CORP. LTD.	
HOP GROUP — CLAIMS and SAMPLING GRID	
Whitehorse M.D.—Y.T.	115 —J— 15
P. H. Sevensma Consultants Ltd. Vancouver, B.C.	
Dwg. No.	Fig: 3
August 1970	Scale: 0 1/4 mile



Cu. Plot

NOTE: All samples analyzed for Mo.
Tr. only reported.
:: Claim locations.



FIG. 4

EMPIRE MERCURY CORP. LTD.	
HOP GROUP	
Geochemical Survey	
Whitehorse M.D. — Y.T.	115 -J- 15
PETER H. SEVENSMA CONSULTANTS LTD. — Vanc. B.C.	
Aug. 1970,	Scale: 0 400'