

ASSESSMENT REPORT
of
GEOCHEMICAL SURVEY
on
GUM CLAIMS

GUM 1-2, 7-12, 17-20, 23-42

128°05'W 60°32'N

Watson Lake Mining District

Claim Sheet 105 A 9

by

R. Stroshein June 20, 1979

090480

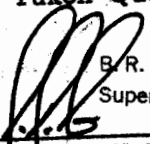
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

\$ 3,200.00

J. A. Minin

A/ Resident Geologist or
Resident Mining Engineer

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


B. R. BAXTER
Supervising Mining Recorder

R. Commissioner of Yukon Territory

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INTRODUCTION AND SUMMARY

In 1978 prospecting along a creek in the Hyland River Valley located outcrops of black shale which reacted positively to zinc spray test solution. Further prospecting led to similar discoveries in the area. Subsequently Gum claims 1-19 were staked during June 15-17, Gum 20-21 were added June 26. A soil sample grid established with a central baseline bearing north-south to explore the area outlined by the claims. The sampling was conducted June 21, 22 & 23.

Gum claims 23-42 were staked July 2-5. A second grid was established using baselines bearing northwesterly and sampling conducted July 7-15. The grid was established to explore the area outlined by Gum Claims 23-42.

LOCATION AND ACCESS

The Gum claim group is located 38 miles north-east of the town of Watson Lake. The claims are located in the Hyland River valley on NTS map sheet 105A, specifically claim sheet 105-A-9, latitude $60^{\circ}32'N$, longitude $128^{\circ}05'W$. See figure 1.

Access to the property has been by helicopter from base camp at mile 48, Simpson Creek along the Robert Campbell Highway.

PERSONNEL

The personnel assigned to the project were as follows:

Supervisor - R. Stroshein (Geologist)

Sampler - G. Bishop (Geologist)

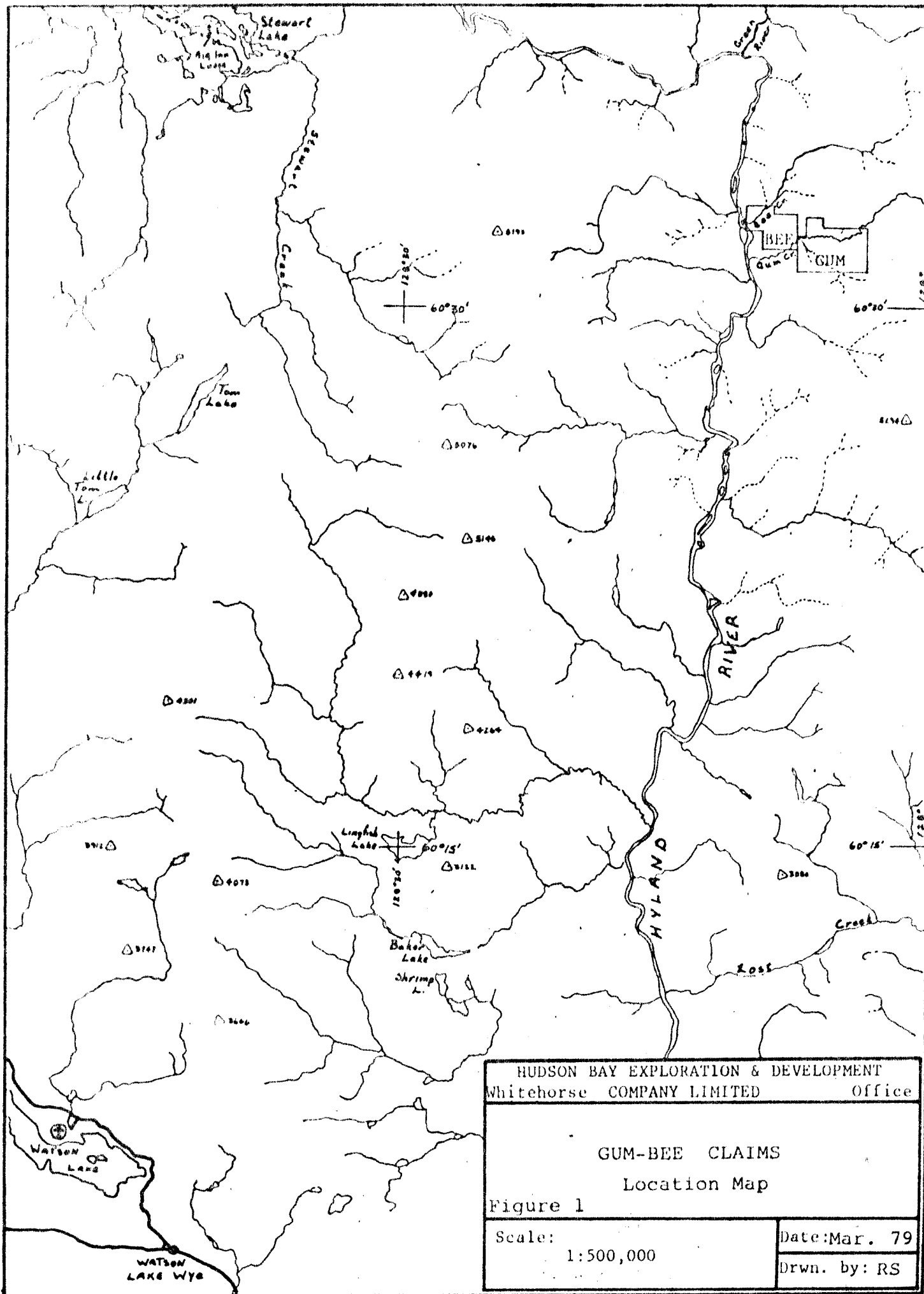
Sampler - D. Daigle (student)

The sampling conducted on the claim group was completed in 9 days between June 21 and July 15, 1978.

CLAIM OWNERSHIP

Gum Claims 1, 2, 7-12, 17-20, 23-42 are owned by Hudson Bay Exploration and Development Company Limited. The number of claims totals 32.

The geochemical soil sampling survey was confined to the area outlined by the above claims.



HUDSON BAY EXPLORATION & DEVELOPMENT	
Whitehorse COMPANY LIMITED	Office
GUM-BEE CLAIMS	
Location Map	
Figure 1	
Scale:	Date: Mar. 79
1:500,000	Drwn. by: RS

GEOLOGY

Reconnaissance geological mapping by the G. S. C. indicates the area of the Gum claims is underlain by Cambrian to Ordovician shale, phyllite and limestone units.

Outcrop is generally sparse and restricted to canyon walls along the creek valleys.

No clear geological picture is evident due to the limited outcrop exposure and apparent structural complexity.

Outcrops of interbedded black shale and carbonaceous limestone generally predominate the general area. The black shale is commonly graphitic and is locally pyritic. An extensive outcrop of lustrous grey phyllite which is generally calcareous occurs along the creek walls in the area of claim numbers 18, 19 and 37.

Generally bedding attitudes strike north-northwesterly with low to moderate eastward dips. In the southwest area outcrops along a creek strike east-west and dip shallowly to the north.

The indication is that large scale structural features such as folding or faulting occurs in the area.

GEOCHEMICAL SOIL SAMPLING SURVEY

Two soil sample grids were established to account for variations in bedding attitudes noted in outcrop. The initial grid to explore claims Gum 1, 2, 7-12, 17-20 was run from a central baseline (BL 20W) bearing north. Samples were collected along section lines of 100 meter intervals at a sample spacing of 50 meters. The second grid to cover claims 23-42 was run from two baselines (BL 35W and 45W) bearing northwesterly. Samples were also collected along section lines at 100 meter intervals at a sample spacing along the lines of 50 meters, except in the southern portion of the grid where sample spacings were 100 meters.

A total of 580 samples were collected of which 564 were within the claim group.

All lines were run using compass and measured with metric topolite chains. The lines were marked with plastic flagging and station flags were indicated with felt pen.

A system involving two men who alternately ran line or collected soil samples was utilized. Samples were collected from the B₁ soil horizon where possible using a mattlock. Samples were collected in soil sample envelopes which were marked as to location with a brief description of the soil.

Samples were shipped to Whitehorse Assay Lab and analysed for lead, zinc and silver by atomic absorption and results were reported in parts per million. The analytical results are plotted on Plate 1 attached to the report.

Statistical analysis of the results by cumulative percent frequency distribution suggested the following values:

<u>Element</u>	<u>Background value</u>	<u>Anomalous value</u>
Lead	24 ppm	40 ppm
Zinc	190 ppm	690 ppm
Silver	0.8 ppm	2.4 ppm

For plots see appendix 1.

On this basis the results suggest three areas of potential interest.

An anomalous zone is outlined between 47S and 33W and 48S and 33 + 50W. At this two stations coincident Zn/Ag anomalies occur. Other anomalous values occur down slope from this zone. This would be the expected dispersion pattern. The suggested zone parallels observed bedding strikes in the vicinity.

A second area between 56N and 58N from 20W to 25W outlines a cluster of values anomalous in Ag and Zn. The values in relation to the topography and observed bedding attitudes indicates a most likely source up slope north of the existing grid.

Scattered anomalous values in the south western area of the claim group suggest a transported source. Glacial ice movements for the region were towards the north.

The anomalous values may be a result of glacially deposited material derived from a source to the south of the claim group.

CONCLUSIONS AND RECOMMENDATIONS

The anomalous zone as outlined between lines 47S and 48S although numerically low warrants further evaluation. The area is on a very well drained slope and the soil is generally poorly developed. Under these conditions a large build up of elements in the soil would not necessarily develop.

It is felt that the overburden is generally shallow along this slope.

To more fully investigate the area it is recommended to test the overburden along the zone using portable augering equipment. Sampling of the overburden across the trend at several locations allowing for an up dip source should indicate rapidly if the area has any economic potential.

Mapping and rock sampling of outcrops in detail in the area will be necessary to fully evaluate the zone.

If overburden depths prove to be to great consideration should be given to conducting an electro-magnetic survey across the zone.

The area of anomalous values in the north central area between 56N and 58N requires further sampling to close off the anomalies. The grid should be extended northward. Geologic mapping and some overburden sampling in the area will be necessary to help determine the location of the source.

The indicated northerly strikes of bedding in the area combined with the steep slope suggest that the anomalous values are a result of dispersion from a source north of the grid.

The scattered anomalous values in the southern area of the claim group could suggest a possible southern source.

It is recommended to carry out reconnaissance silt and soil sampling and visual prospecting in the area south of the claim group onto the next map sheet (105A/8).

Except in the northwestern part of the claim group further work should be directed towards more reconnaissance type work.

Robert Shoshen
John B. Bunker

APPENDIX I

GUM - BEE CLAIMS

- 1978 -

GEOCHEMICAL SOIL SURVEY

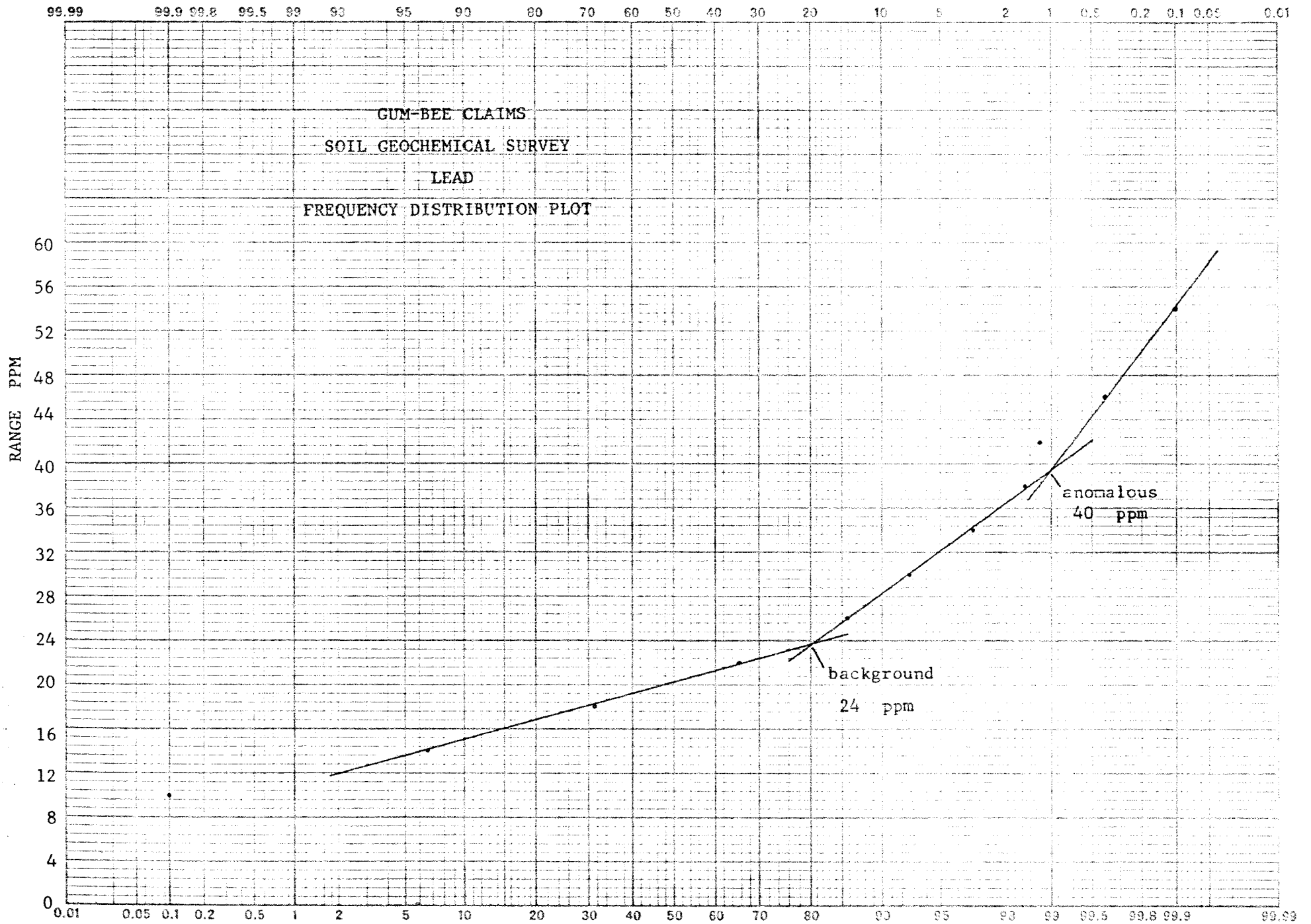
FREQUENCY DISTRIBUTIONS

GUM CLAIMS
GEOCHEMICAL SOIL SURVEY

LEAD

RANGE (in ppm)	FREQUENCY DISTRIBUTION	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT FREQUENCY
0 - 3			
4 - 7			
8 - 11	1	1	.1
12 - 15	49	50	6.8
16 - 19	184	234	31.6
20 - 23	253	487	65.8
24 - 27	149	636	85.9
28 - 31	50	686	92.7
32 - 35	30	716	96.8
36 - 39	13	729	98.5
40 - 43	2	731	98.8
44 - 47	6	737	99.6
48 - 51			99.6
52 - 55	2	739	99.9
56 - 59			99.9
60 - 63	1		100.0
Total -	740	740	

CUMULATIVE PERCENT FREQUENCY



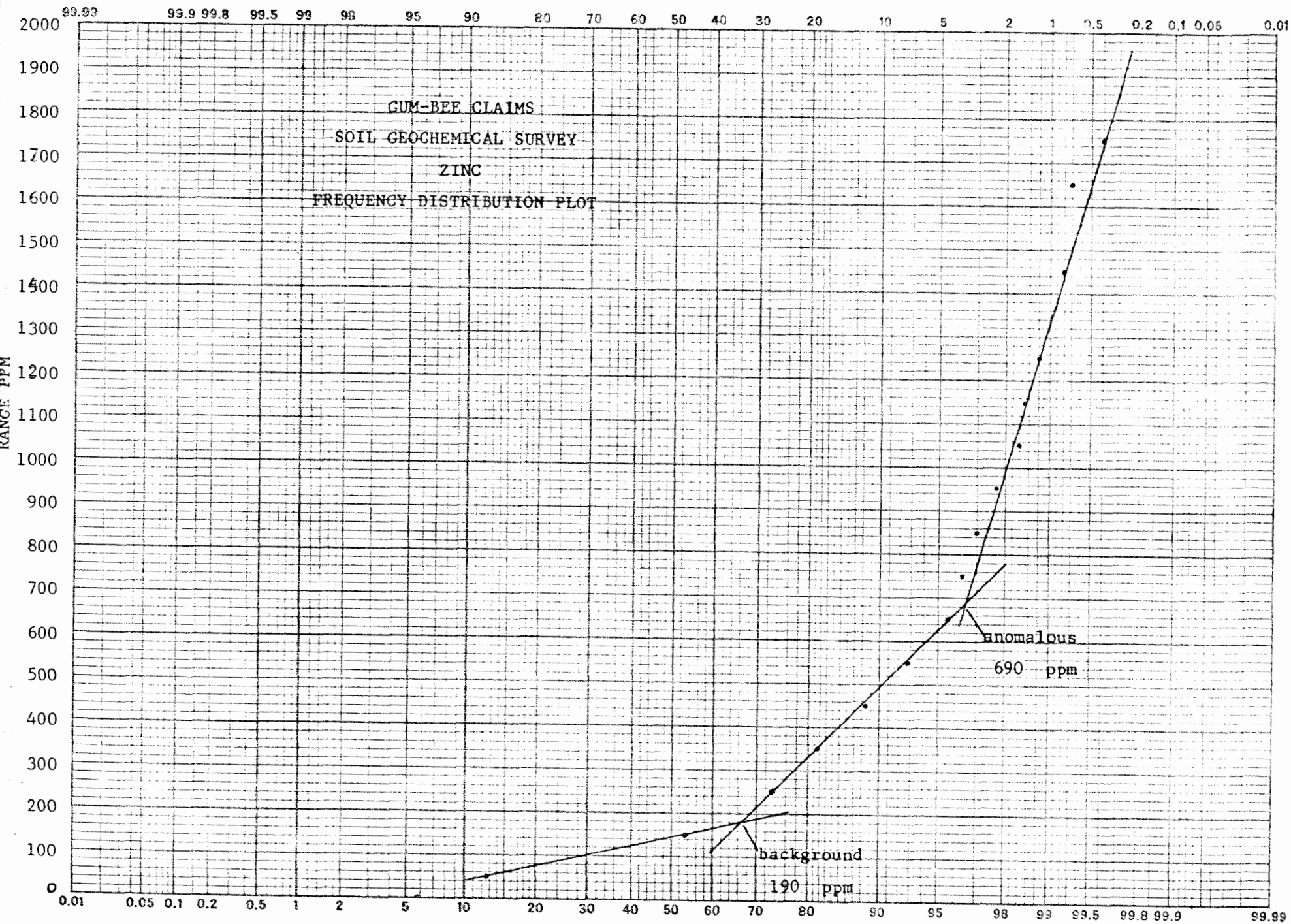
GUM CLAIMS

SOIL GEOCHEMICAL SURVEY

ZINC

RANGE (in ppm)	FREQUENCY DISTRIBUTION	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT FREQUENCY
0 - 99	94	94	12.7
100 - 199	300	394	53.2
200 - 299	148	542	73.2
300 - 399	61	603	81.5
400 - 499	51	654	88.4
500 - 599	33	687	92.8
600 - 699	21	708	95.7
700 - 799	4	712	96.2
800 - 899	6	718	97.0
900 - 999	6	724	97.8
1000 - 1099	4	728	98.4
1100 - 1199	1	729	98.5
1200 - 1299	2	731	98.8
1300 - 1399			98.8
1400 - 1499	3	734	99.2
1500 - 1599			99.2
1600 - 1699	1	735	99.3
1700 - 1799	2	737	99.6
1800 - 1899			99.6
1900 - 1999			99.6
2000 - 2099	1	738	99.7
2100 - 2199	1	739	99.9
2200 - 2299			
2300 - 2399			
2400 - 2499			
2500 - 2599			
2600 - 2699			
2700 - 2799			
2800 - 2899	1		100
Total -	<u>740</u>	<u>740</u>	

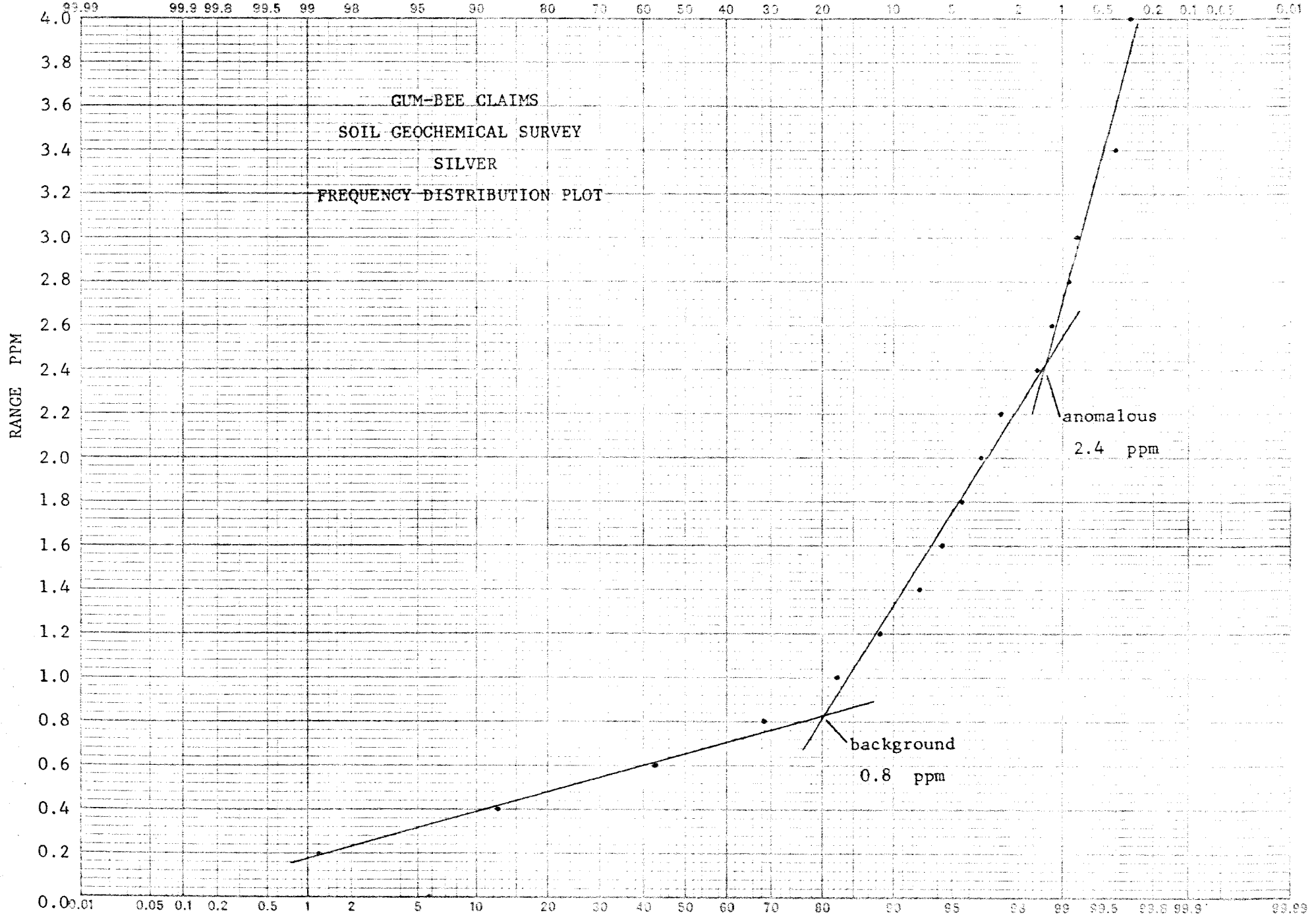
CUMULATIVE PERCENT FREQUENCY



GUM CLAIMS
SOIL GEOCHEMICAL SURVEY
SILVER

VALUE (in PPM)	FREQUENCY DISTRIBUTION	CUMULATIVE FREQUENCY	CUMULATIVE PERCENT FREQUENCY
0			
.2	9	9	1.2
.4	84	93	12.6
.6	223	316	42.7
.8	189	505	68.2
1.0	105	610	82.4
1.2	45	655	88.5
1.4	30	685	92.6
1.6	13	698	94.3
1.8	10	708	95.7
2.0	7	715	96.6
2.2	6	721	97.4
2.4	8	729	98.5
2.6	2	731	98.8
2.8	2	733	99.1
3.0	1	734	99.2
3.2			99.2
3.4	3	737	99.6
3.6			99.6
3.8			99.6
4.0	1	738	99.7
4.2			99.7
4.4	1	739	99.9
4.6			
↳ 13.6	1		100
Total -	740	740	

CUMULATIVE PERCENT FREQUENCY



APPENDIX III

ROBERT W. STROSHEIN

ADDRESS: #303 - 504 Drury Street,
Whitehorse, Yukon Territory.
Y1A 1T4

EDUCATION: B. Sc. (Geological Engineering) from
University of Saskatchewan.
Graduated in 1973

EMPLOYMENT: 1973 - 1979 Hudson Bay Exploration & Development Co. Ltd.
Flin Flon Office 1973 - 1975
Drill Geologist: field supervisor of diamond drill
projects Northern Manitoba and Saskatchewan
Geophysical Supervisor: Field supervision of EM
geophysical projects in Northern Manitoba and
Saskatchewan.

Whitehorse Office 1975 - 1979
Project Geologist: field supervisor of geophysical,
geochemical and prospecting programs in Yukon Territory.
Included report preparation and assessment.

Whitehorse Assay Office Ltd.

Box 4518 Whitehorse Y. T.

Y1A 2R8

Phone 667 2694

Invoice No. *1000000*

In Account With:

Nudron Bay Exploration

(SILTS, SOILS, & AGG. SAMPLES)

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
June 8	A-1081-7 71g Pb @ 2.50	17.50		
11	A-1083-4 1.00 Zn @ 2.00	20.00		
21	A-1092-23 250 Ag @ 2.50	625.00		
26	A-1094-12 100 " "	250.00		
	1.00 Zn	2.00		
July 4	A-1097-13 133 Pb @ 2.50	332.50		
July 5	A-1098-20 20 " "	50.00		
7	A-1099-50 50 Zn @ 1.00	50.00		
11	A-2006-10 120 Pb @ 2.50	300.00		
14	A-2007-20 20 " "	50.00		
14	A-2009-5 5 " "	12.50		
14	A-2010-9 92 " "	230.00		
14	A-2013-11 115 " "	287.50		
14	A-2014-10 10 " "	25.00		
15	A-2015-4 46 Pb @ 1.50	69.00		
19	A-2016-25 25 Pb @ 2.50	62.50		
20	A-2017-399 399 " "	997.50		
20	A-2018-34 34 " "	85.00		
27	A-2025-418 411 " "	1027.50		
	7 Cu Pb Zn Ag @ 3.00	21.00		
	7 Au Pb @ 4.00	28.00		
27	A-2026-61 51 Pb Zn Ag @ 2.50	127.50		
	10 Cu Pb Zn Au @ 3.00	30.00		
	10 Au Pb @ 4.00	40.00		
	20 grinding:			
A-1081	7; A-1083-4; A-1091-18; A-1098-20			
A-2006	20; A-2009-8; A-2014-10; A-2018-34			
A-2026	-61 159 Kothal @ 1.25	198.75		
	20 " @ 1.50	30.00		
	less 10% env analysis		420.90	

Total due:

4431.75 420.90 4016.85

Due on receipt 1 Percent per month on overdue accounts.

invoice

AIRPORT TEXACO SERVICE
Box 363, Watson Lake, Yukon Y0A 1C0
536-7591

No.



4388

date July 1/78

sold to

Hudson Bay Expl.

shipped to

(same as sold to unless as indicated)

DATE SHIPPED	SHIPPED VIA	F.O.B.	TERMS	YOUR ORDER NO.
QUANTITY	DESCRIPTION		PRICE	AMOUNT
1125.0	Gallons Avgas 100/130		1.15	1293.75
25	Vorac drums		40.00	1000.00
90.0	Gallons regular gas		1.07	96.30
2	Steel drums		30.00	60.00
2	10 gallon kegs		18.00	36.00
THESE DRUMS MAY BE RETURNED, PROVIDING IN GOOD CONDITION, AND FULL CREDIT, LESS RENTAL CHARGE OF \$2.00 PER DRUM PER MONTH WILL BE ISSUED. THIS ACCOUNT IS PAYABLE AS PER OUR USUAL TERMS. THIS INVOICE MUST BE PRESENTED UPON RETURN OF DRUMS. MINIMUM CHARGE WILL BE \$200 PER DRUM.				
				#2486.05

776-845

Robert Shoshen



ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air LTD.
(TERRITORIAL AIRWAYS)

PHONE: 969-0040 FARD 994-2789
TELEX: TERR-AIR ROSS

PROJECT: _____ CHARTER TICKET _____
 AIRCRAFT: _____ DATE: _____
 NAME: _____
 ADDRESS: _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
	4.3		
	7.9		
	6.0		
TOTAL HRS	41.2		
EXTRA CHARGES			
TOTAL CHARGES			\$6255.00

116-842

Charterer's Authorization

Pilot's Signature

ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT



terr-air LTD.
(TERRITORIAL AIRWAYS)

PHONE: 969-0040 FARO 994-2789
TELEX: TERR-AIR ROSS

PROJECT: _____ CHARTER TICKET 100
AIRCRAFT _____ DATE _____
NAME _____
ADDRESS _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
1	2.6		
2	2.6		
3	5.2		
4	5.7		
5	3.7		
6	7.2		
7	5.8		
8	3.5		
9	2.5		
10	3.5		
TOTAL HRS 45.3 • 150.0 PER HR.	6795.00		
EXTRA CHARGES	72.00		
TOTAL CHARGES	6723.00		

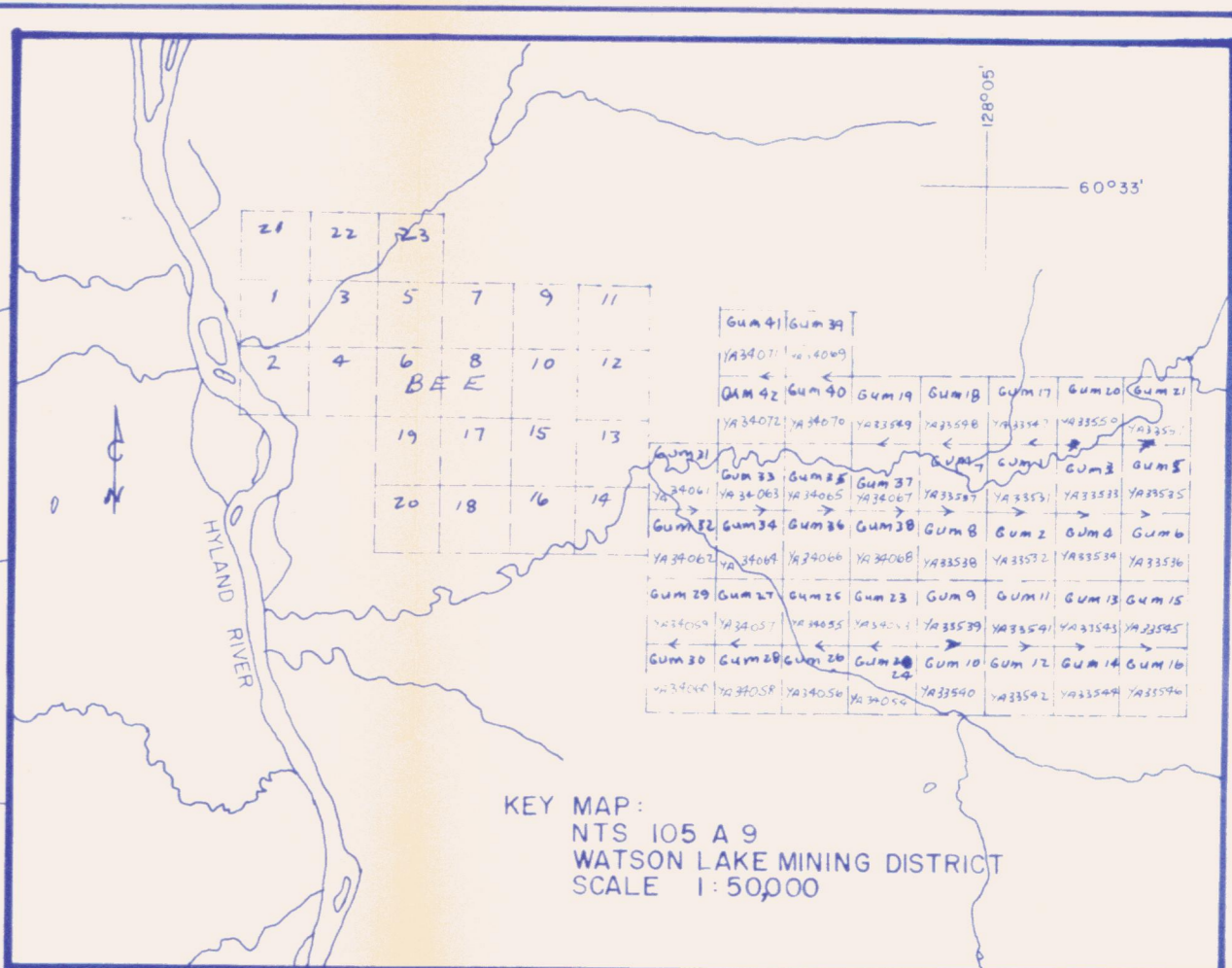
Charterer's Authorization

Pilot's Signature



LEGEND

- Sample location Pb in ppm
- Zn in ppm
- Cu in ppm
- Claim boundary line
- Claim location line
- Claim post location



HUDSON BAY EXPLORATION & DEVELOPMENT
WHITEHORSE COMPANY LIMITED OFFICE

GUM CLAIMS
SOIL GEOCHEMISTRY

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

DRAWN BY: *R.S.* DATE: May 1975 PLATE No.: 1

FIELD WORK BY: *D. Davis* REVISOR BY: *G. Bishop* SCALE: 1:5000