

ASSESSMENT-REPORT-GEOCHEMICAL  
MINERAL-CLAIM-W=C-12

ATLIN M.D.  
NTS 114P/12

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11'045**

T.E.CHANDLER

FEBRUARY 18, 1983

## TABLE\_OF\_CONIENIS

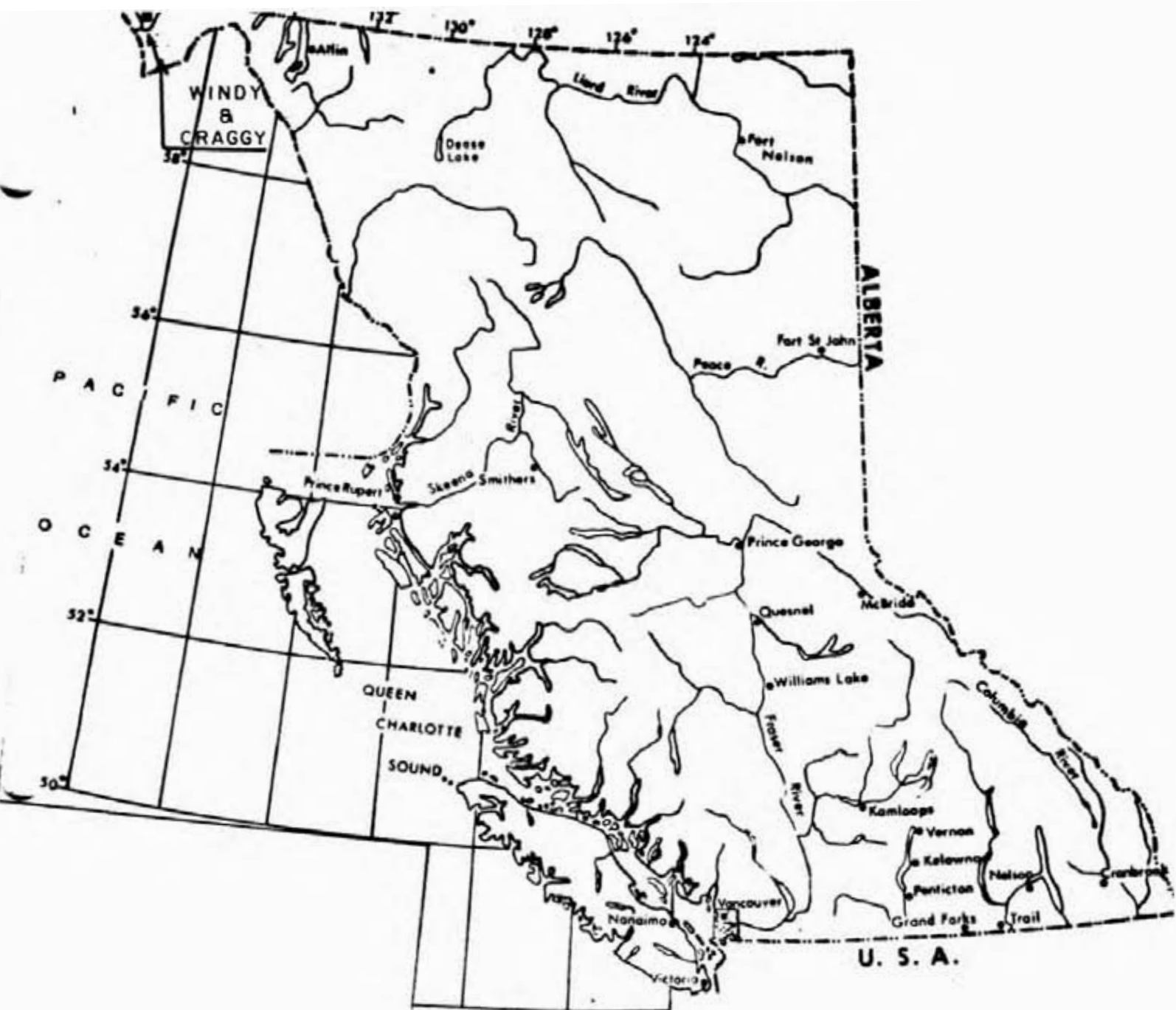
INTRODUCTION.....	Page 3
ANALYTICAL METHODS.....	* 3
INTERPRETATION.....	* 3
RESULTS.....	* 4
CONCLUSIONS.....	* 4
STATEMENT OF COSTS.....	* 12
STATEMENT OF QUALIFICATIONS.....	* 13

## LISI\_DE\_IABLES

TABLE 1 STATISTICAL DATA.....	* 4
TABLE 2 ANALYTICAL DATA.....	* 5

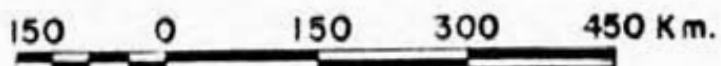
## LISI\_DE\_FIGURES

FIGURE 1. LOCATION MAP 1:7500000.....	* 1
FIGURE 2. CLAIM SKETCH 1:50000.....	* 2
FIGURE 3. SAMPLE LOCATION MAP, CLAIM W-C-17, VALUES FOR CU, CO, ZN, AG AND AU. 1:20000.....	* 6
FIGURE 4. CU HISTOGRAM AND STATISTICS.....	* 7
FIGURE 5. CO HISTOGRAM AND STATISTICS.....	* 8
FIGURE 6. ZN HISTOGRAM AND STATISTICS.....	* 9
FIGURE 7. AG HISTOGRAM AND STATISTICS.....	* 10
FIGURE 8. AU HISTOGRAM AND STATISTICS.....	* 11



**INDEX MAP**

**BRITISH COLUMBIA**



**SCALE 1: 7 500 000**

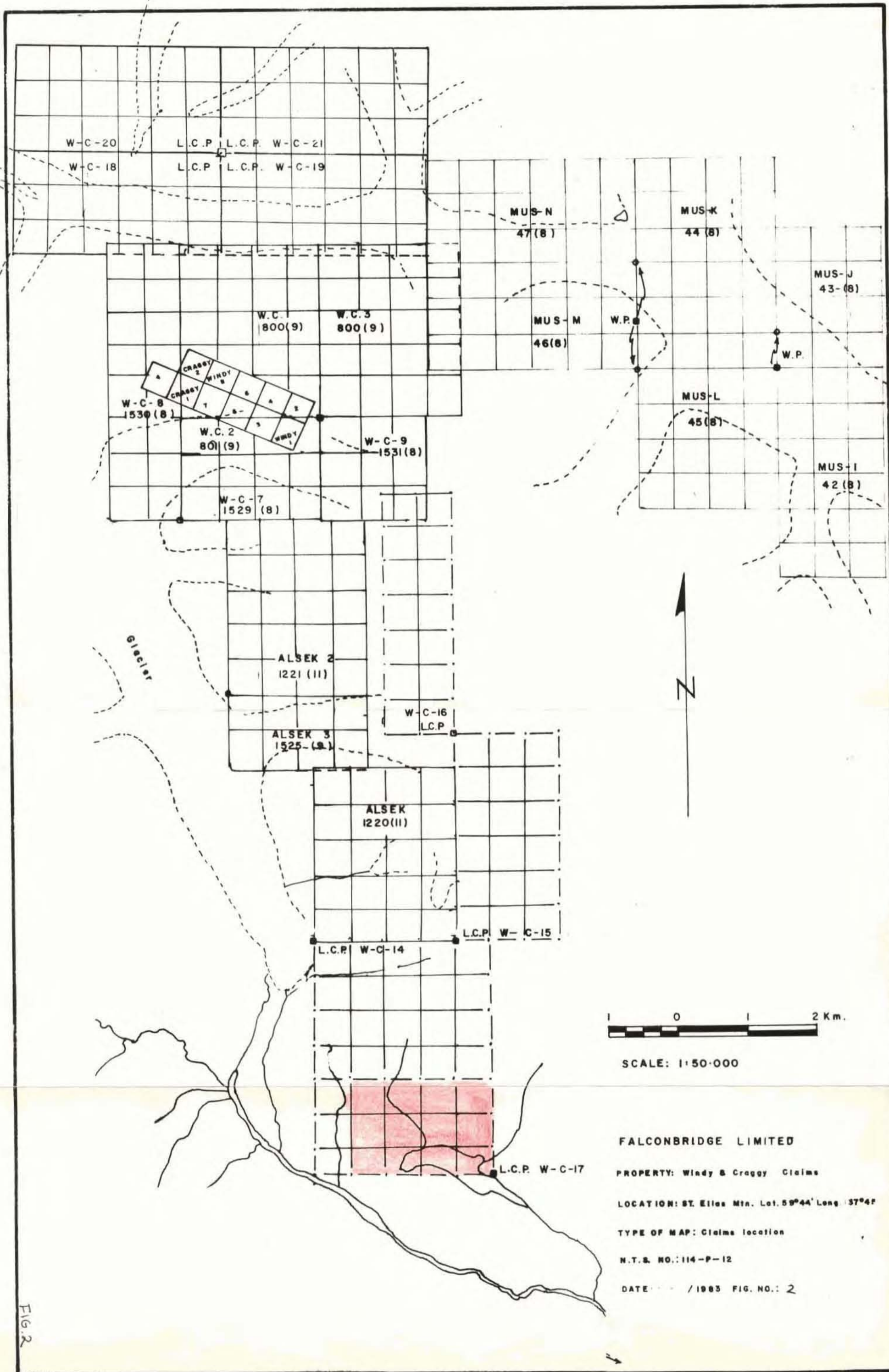


FIG. 2

**FALCONBRIDGE LIMITED**  
 PROPERTY: Windy & Craggy Claims  
 LOCATION: ST. Elias Mtn. Lat. 59°44' Long. 137°41'  
 TYPE OF MAP: Claims location  
 N.T.S. NO.: 114-P-12  
 DATE: / / 1983 FIG. NO.: 2

## INTRODUCTION

During the interval August 14 to 18, 1982, a total of 73 stream sediment samples were collected within and in the vicinity of the East and West Group Mineral Claims of the Windy-Crassy prospect. Thirteen of these samples are located on the ground covered by Mineral Claim W-C-17 or on adjoining areas from streams draining the claim as shown on Fig. 3.

The sampling was supported by helicopter due to the steep topography and/or dense bush in low-lying areas. Samples were collected from fine silt material in the streams or glacial runoffs, dried and sieved. The -100 mesh fractions were prepared in Vancouver prior to submission for analysis.

## ANALYTICAL METHODS

The samples were submitted to Min-En Labs in Vancouver for analysis. The prepared -100 mesh samples were subjected to a hot aqua regia attack and analysed by inductively coupled argon plasma atomic spectrometry. This ICP method provided analysis of 24 elements. The aqua regia leach is partial for: Ca, P, Mn, Al, Na and K. In addition the samples were analysed for Au by normal aqua regia and A.A. methods.

## INTERPRETATION

The statistical analysis of the data was accomplished with the aid of Q'GAS system software programs in conjunction with a DEC PDP-11 computer at Falconbridge Limited's Delta office. These programs allow determination of basic element population statistics, prepare histograms and calculate correlation coefficients. From this data threshold limits for anomalous element values were selected. Table 1 lists the background and threshold values for the elements of economic interest: Cu, Co, Zn, As and Au. Sample histograms and statistics for these elements are provided on Figures 4, 5, 6, 7 and 8. Table 2 lists the complete data for all 25 elements for the thirteen samples shown on Figure 3.

## RESULTS

The sampled area lies within regionally metamorphosed ( greenschist to lower amphibolite facies ) metasediments and volcanics of presumed Cambro-Ordovician to Carboniferous ages belonging to the Kaskawalsh Group as described by Campbell and Dodds of the G.S.C, Paper 78-1A, 1978. Exposures of these rocks are negligible in the W-C-17 claim area. Thick alder growth and low scrub vegetation covers most of the claim, especially around Tats lake. Glacial outwash and recent alluvial deposits obscure the underlying rocks along the upper reaches of Tats creek.

The results of the sampling programme over the W-C-17 claim area are plotted on Figure 3 for the elements of interest. Reference to the sample number locations and Table 2 will allow location of the results of the other element analyses. Inspection of Figure 3 shows disappointing metal values for the samples in the claim area. No anomalous values were detected and the majority of the analyses fall well within the normal range for the area. Sample 60321 shows a mildly elevated silver content but is not considered anomalous. The results do not warrant further detailed investigations.

## CONCLUSIONS

No targets of interest were discovered during the stream sediment sampling survey over claim W-C-17.

TABLE 1...STATISTICAL DATA

ELEMENT	BACKGROUND	THRESHOLD
Cu	80-100	>200
Co	35-40	>60
Zn	60-80	>180
As	1-1.5	>2.5
Au	5-10	>25

ALL VALUES IN PPM EXCEPT AU: IN PPB

TABLE 2 ANALYTICAL DATA

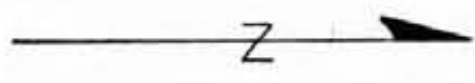
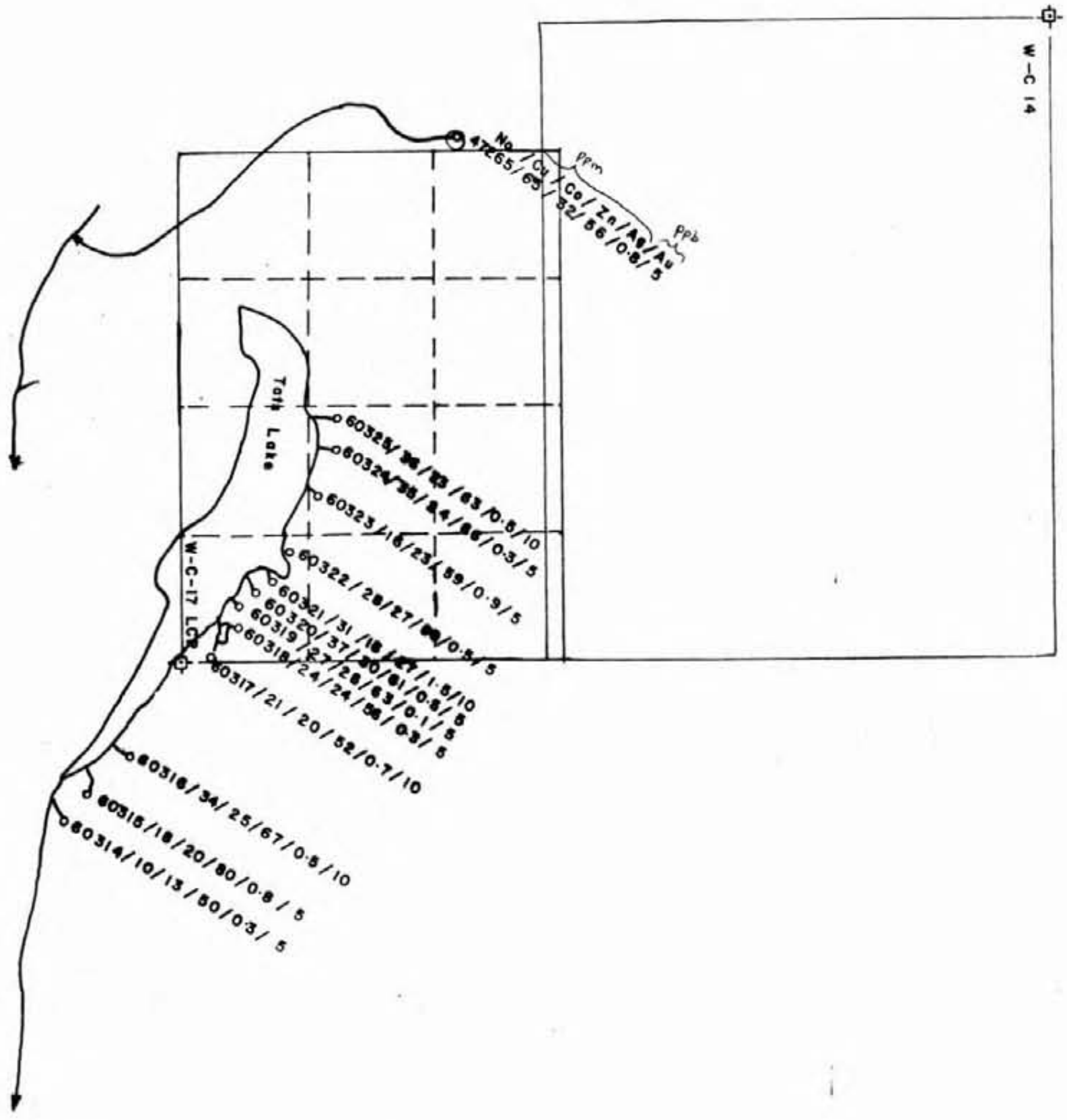
SAMPLE NO.	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
47265	0.8	22200	0	19	28	24000	0	13	10	69700	961	5230
60314	0.3	10700	0	8	9	7490	0.9	13	10	31900	265	5220
60315	0.8	21300	0	12	23	9580	2.1	26	18	70300	417	14200
60316	0.5	19300	0	10	16	17600	3.8	25	34	53500	359	12500
60317	0.7	18600	0	10	19	14300	2	21	20	53300	377	12700
60318	0.3	18000	0	9	21	7770	2.7	24	24	53700	402	13100
60319	0.1	19500	0	11	18	5880	3	28	27	54400	346	14500
60320	0.5	22600	0	12	23	10200	3.2	30	37	63700	466	15500
60321	1.5	14400	0	8	14	43400	1.8	18	31	57600	539	7110
60322	0.5	24800	0	13	24	7770	3.9	27	28	63900	433	18600
60323	0.9	20400	0	11	21	10900	2.8	23	16	63700	374	14100
60324	0.3	19400	0	11	16	8550	3.1	24	35	48000	344	11900
60325	0.5	17800	0	10	17	8120	2.2	23	36	45400	362	11100

SAMPLE NO.	HN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN	AU
47265	455	1	413	36	1070	0	0	161	19	0	95.7	56	5
60314	336	4	179	17	1090	6	0	102	12	0	40.7	50	5
60315	335	7	277	42	1340	11	0	135	24	0	96.7	80	5
60316	553	8	198	44	1000	18	0	153	24	0	76.7	67	10
60317	304	4	269	35	1220	7	0	136	19	0	74.1	52	10
60318	341	7	162	46	965	11	0	118	24	0	68.8	56	5
60319	396	9	137	48	833	18	0	124	26	0	74.1	63	5
60320	463	8	257	53	978	17	0	150	27	0	95.6	61	5
60321	320	3	307	23	1230	0	0	201	20	0	125.0	27	10
60322	285	8	139	55	836	25	0	126	30	0	91.8	80	5
60323	390	6	322	45	1350	10	0	139	24	1	84.0	59	5
60324	407	6	238	44	1100	17	0	131	22	1	74.6	66	5
60325	379	7	271	42	1040	14	0	122	19	0	68.8	63	10

ALL VALUES IN PPM EXCEPT AU WHICH IS IN PPB

\*\*\*\*\*

W-C 14



SCALE: 1:20,000

FALCONBRIDGE LIMITED

PROPERTY: Windy & Crossy Claim W-C-17

LOCATION: St. Elias Mtn. Lat. 59°44' Long. 137°45'

TYPE OF MAP: Claim and Sample locations

N.T.S. NO.: 114-P-12

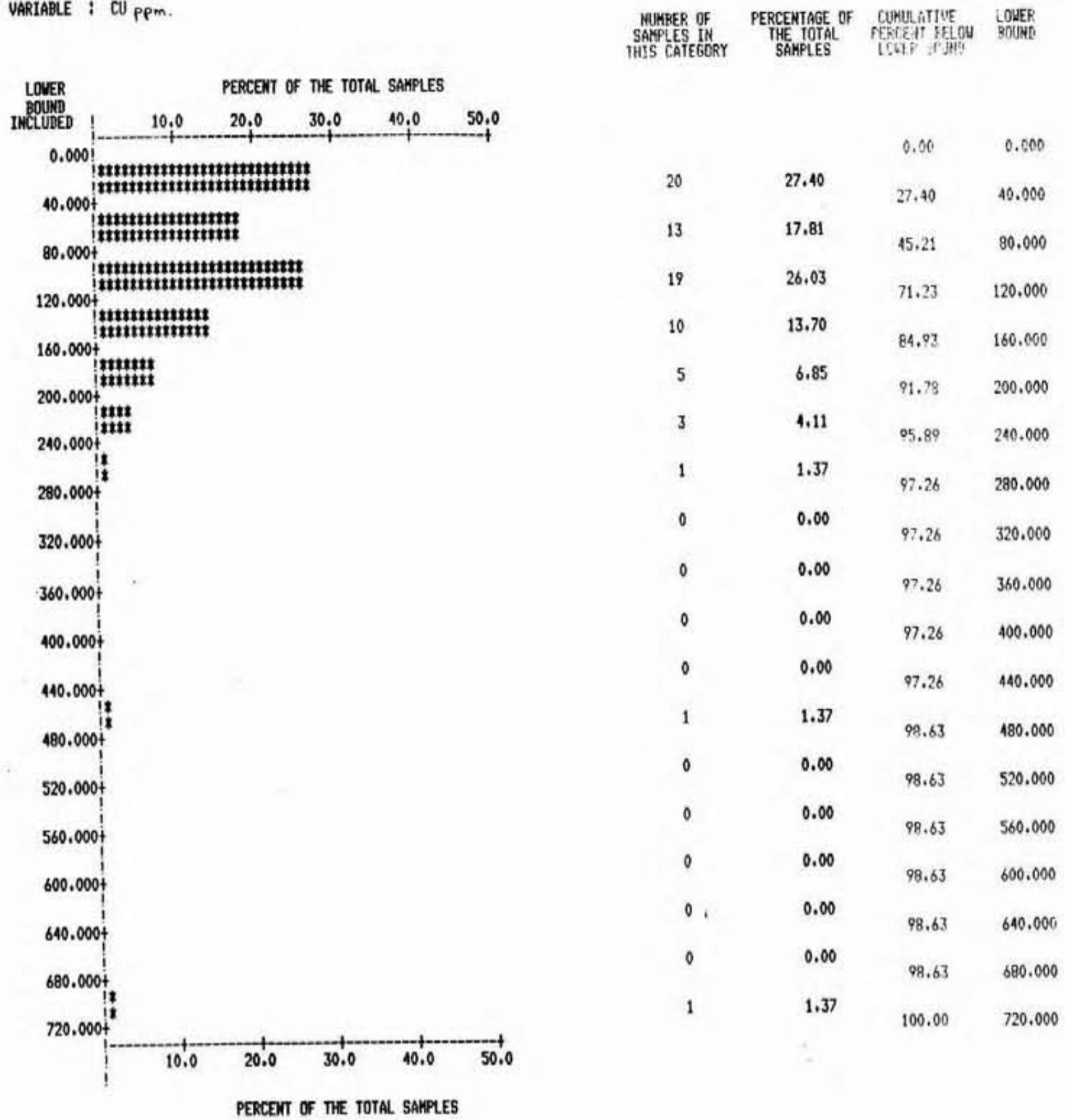
DATE

FIG. 3



DATA TITLE : WINDY CRAGGY-ALSEK 'STREAM' GEOCHEMISTRY. PN 034,052,055,084

VARIABLE : CU ppm.

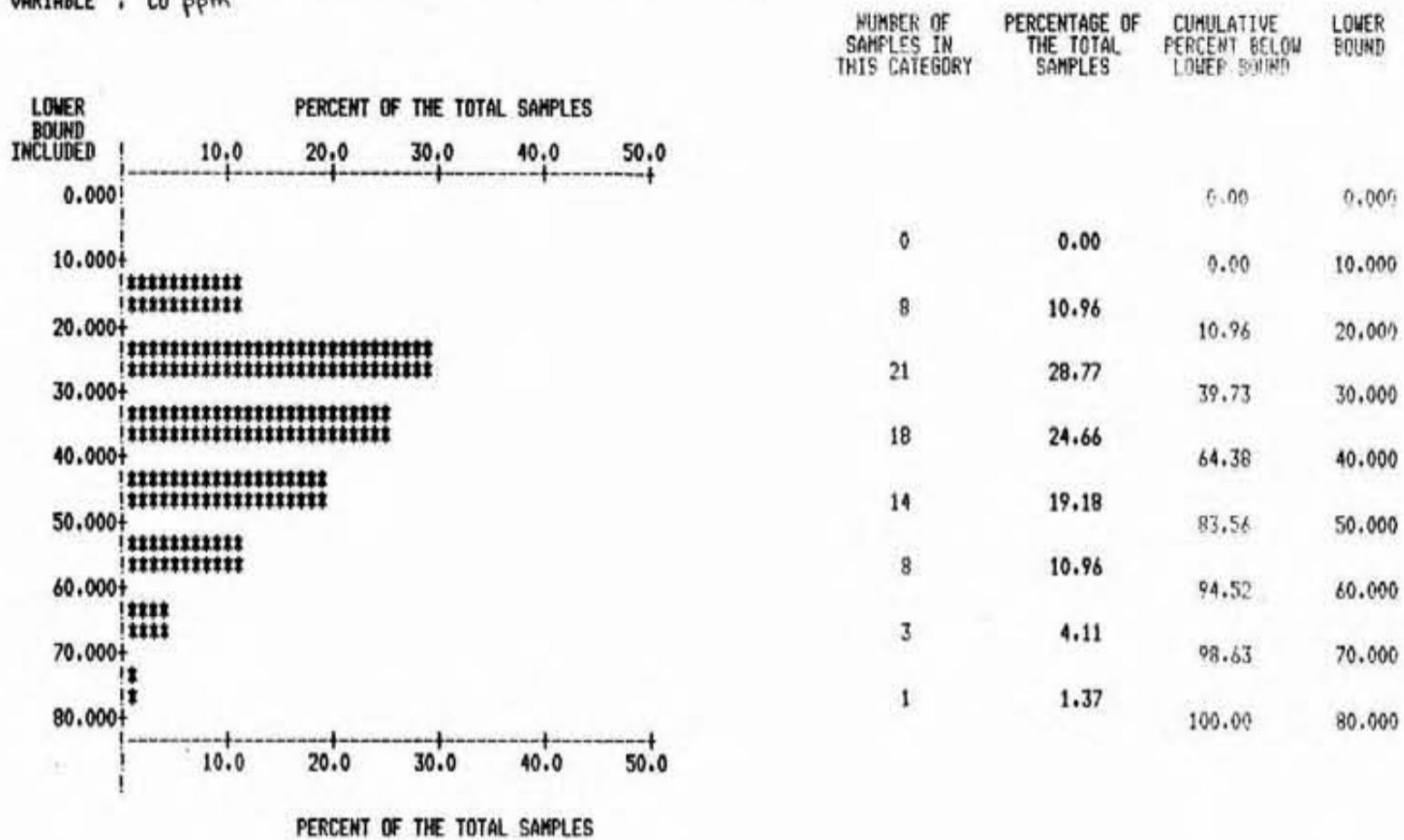


VARIABLE: CU ppm  
 NUMBER OF OBSERVATIONS: 73  
 MINIMUM: 10.000  
 MAXIMUM: 700.000  
 MEAN: 103.671  
 STANDARD ERROR OF MEAN: 11.965  
 STANDARD DEVIATION: 102.227  
 COEFFICIENT OF VARIATION: 98.607  
 SKEWNESS: 3.336  
 KURTOSIS: 15.345

FIG. 4

DATA TITLE : WINDY CRAGGY-ALSEK "STREAM" GEOCHEMISTRY, PN 034,052,055,084

VARIABLE : CO ppm



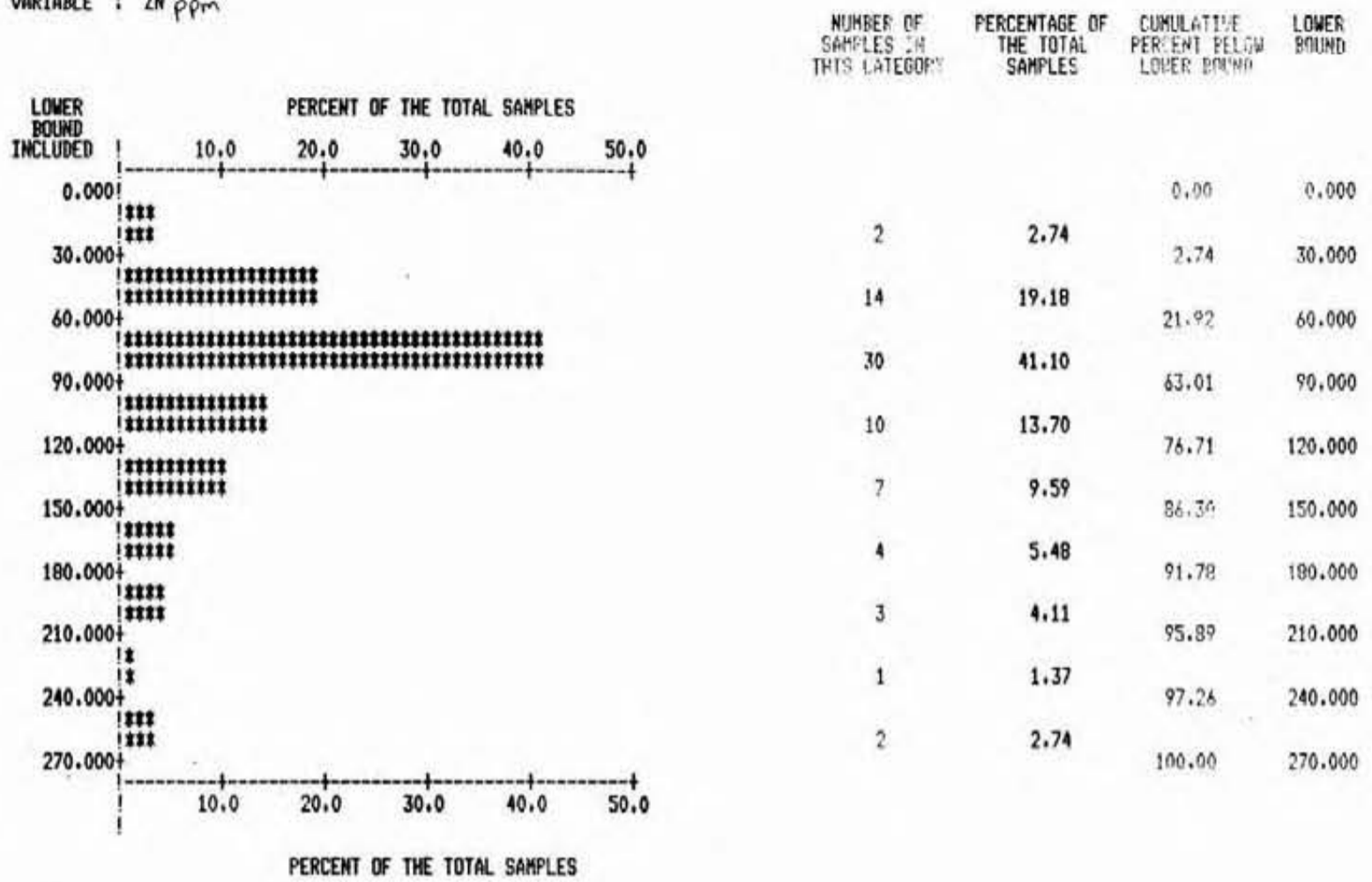
VARIABLE: CO ppm  
 NUMBER OF OBSERVATIONS: 73  
 MINIMUM: 11.000  
 MAXIMUM: 72.000  
 MEAN: 34.808  
 STANDARD ERROR OF MEAN: 1.622  
 STANDARD DEVIATION: 13.855  
 COEFFICIENT OF VARIATION: 39.804  
 SKEWNESS: 0.415  
 KURTOSIS: -0.301

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8

DATA TITLE : WINDY CRAGGY-ALSEK "STREAM" GEOCHEMISTRY, PN 034,052,055,084

VARIABLE : ZN ppm

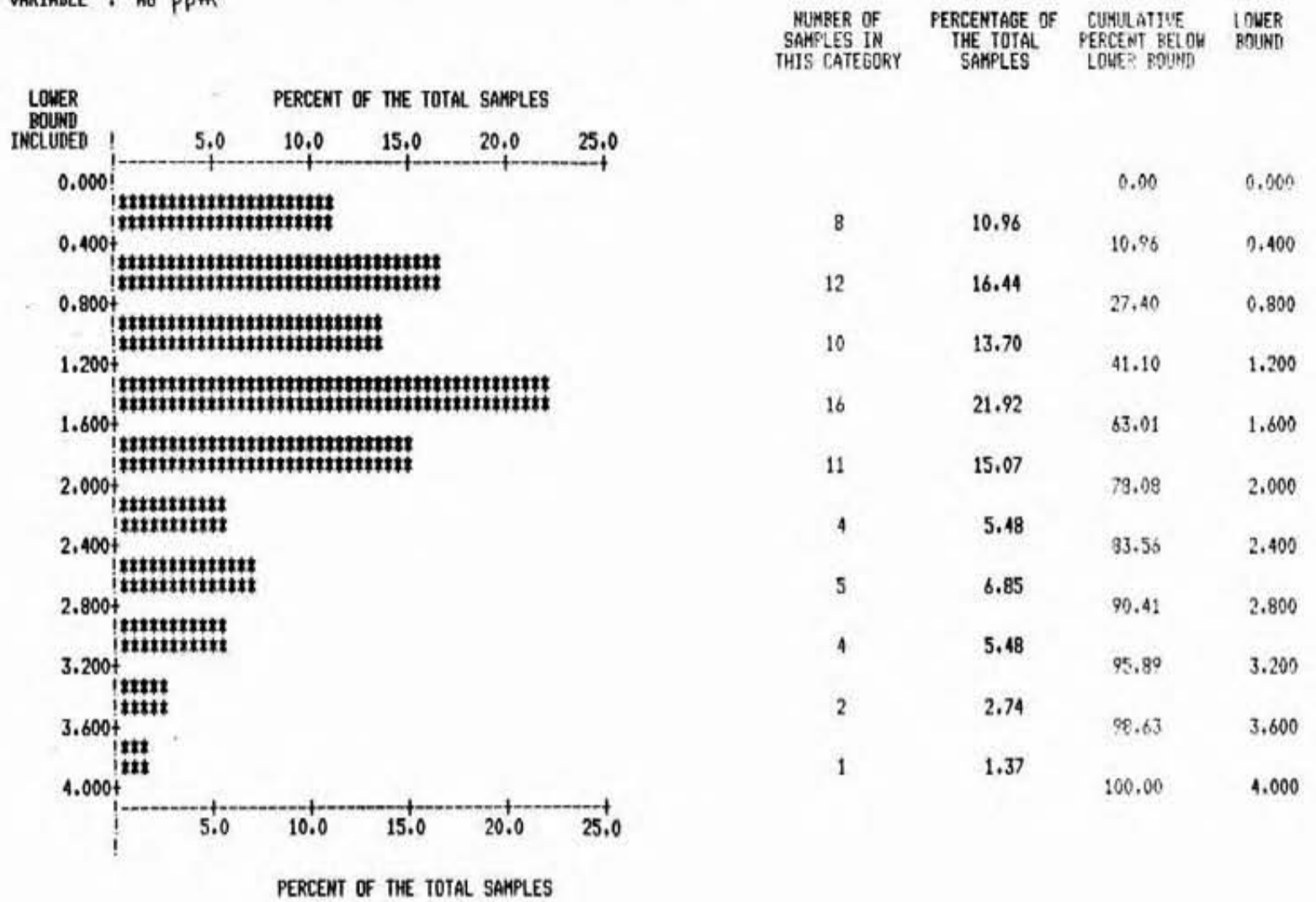


VARIABLE: ZN ppm  
 NUMBER OF OBSERVATIONS: 73  
 MINIMUM: 26.000  
 MAXIMUM: 253.000  
 MEAN: 94.932  
 STANDARD ERROR OF MEAN: 6.029  
 STANDARD DEVIATION: 51.513  
 COEFFICIENT OF VARIATION: 54.263  
 SKEWNESS: 1.375  
 KURTOSIS: 1.454

\*\*\*\*\*

DATA TITLE : WINDY CRAGGY-ALSEK \*STREAM\* GEOCHEMISTRY. PN 034,052,055,084

VARIABLE : AG ppm

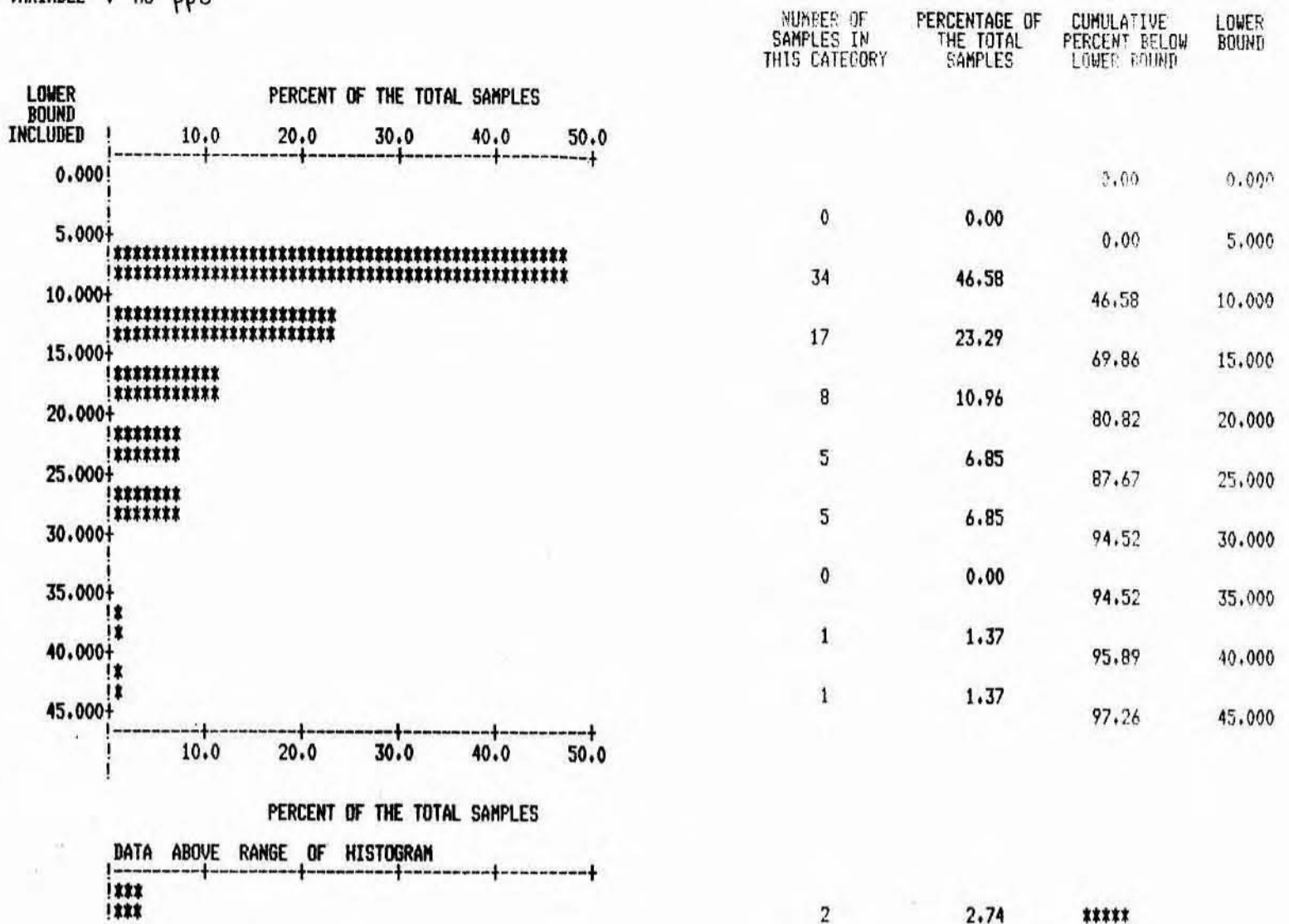


VARIABLE: AG ppm  
 NUMBER OF OBSERVATIONS: 73  
 MINIMUM: 0.100  
 MAXIMUM: 3.900  
 MEAN: 1.412  
 STANDARD ERROR OF MEAN: 0.104  
 STANDARD DEVIATION: 0.885  
 COEFFICIENT OF VARIATION: 62.655  
 SKEWNESS: 0.641  
 KURTOSIS: -0.226

\*\*\*\*\*

DATA TITLE : WINDY CRAGGY-ALSEK "STREAM" GEOCHEMISTRY, PN 034,052,055,084

VARIABLE : AU ppb



VARIABLE: AU ppb  
 NUMBER OF OBSERVATIONS: 73  
 MINIMUM: 5.000  
 MAXIMUM: 485.000  
 MEAN: 21.027  
 STANDARD ERROR OF MEAN: 7.547  
 STANDARD DEVIATION: 64.480  
 COEFFICIENT OF VARIATION: 306.645  
 SKEWNESS: 6.090  
 KURTOSIS: 37.875

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## STAIEMENT DE COSIS

ASSAYS: 13 samples @ \$7.50 ICP.....	\$97.50
13 samples @ \$5.00 A.A. sold.....	\$65.00
HELICOPTER: 0.5 hours @ \$500/hr.....	\$250.00
WAGES: 1 Sampler .75 days collection	
1 Sampler 1.0 days sample preparation	
Total 1.75 days @ \$100/day.....	\$175.00
1 Project Geologist 1 day interpretation and report writing @ \$150/day.....	\$150.00
TOTAL COSTS:.....	\$737.50



FALCONBRIDGE

LIMITED

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Telex 04-357583

February 18, 1983

Chief Gold Commissioner  
Ministry of Energy, Mines  
and Petroleum Resources  
Parliament Buildings  
Victoria, B.C.  
V8V IX4

Statement of Qualifications

Dear Sir:

This is to state that I am a geology graduate of Carleton University, Ottawa, Ontario (B.Sc. Hons. 1975), and have worked for Falconbridge Limited as a geologist since 1976.

Samples were collected by Sam Zastavnikovich, a qualified geochemist and member of the Association of Exploration Geochemists with over 10 years experience in geochemical prospecting.

Yours truly,

FALCONBRIDGE LIMITED

A handwritten signature in cursive script, appearing to read "T. E. Chandler".

T. E. Chandler  
Project Geologist

TEC/aw