

84-#971-13118

REPORT ON

GEOCHEMICAL AND GEOPHYSICAL SURVEY

ON THE

VENUS GROUP OF MINERAL CLAIMS

LATITUDE 49° 27'

LONGITUDE 117° 20'

NELSON MINING DIVISION

N.T.S. 82F/6W

CLAIMS OWNED BY, OR LOCATED FOR,

ERNESCO RESOURCES LTD.

800-1030 W. Georgia St.

Vancouver, B.C.

V6E 3B9

OPERATOR : ERNESCO RESOURCES LTD.

CONSULTANT : G.B.HARDWICKE, P. ENG.

AUTHOR : G.B.HARDWICKE, P. ENG.

November 1, 1984

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,118

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INTRODUCTION

The Venus group of claims include two gold mines, the Venus and the Juno, which produced limited tonnages of ore around the turn of the century and again during the '30's. A geochemical survey was initiated during 1983 and completed in 1984 to determine the extensions of the known veins and to determine if there were any additional veins on the property. The geochemical data from the 1983 program have been incorporated in this report to assist in the interpretation of results but the costs have not been included for assessment purposes.

A geophysical survey was carried out in 1984 to clarify the geochemical results and to obtain a better understanding of the structure of the gold-bearing areas.

PROPERTY DESCRIPTION, LOCATION, AND ACCESS

The property consists of eight contiguous claims (six reverted crown grants and two located claims, all held by record) as listed under Summary of Claims and shown on Figure 1. The claims cover approximately 120 hectares on the north slope of Morning Mountain at 49° 27' N. Lat. and 117° 20' W. Long., about 4.4 km. by air southwest of Nelson, B.C., in the Nelson Mining Division. The claims lie at an average elevation of 1600 metres.

The property is accessible by 12 km. of highway and forestry access road and 2 km. of mining road from Nelson. An alternate but longer route runs up Giveout Creek; both routes are shown in Figure 1.

HISTORY

The Venus and Juno mines were actively developed from 1900 to 1904. Government records show that the combined production for the two mines was 5,967 tons grading 0.577 oz. gold and 0.514 oz. silver. The mines were operated by leasers in the '30's who shipped 210 tons of ore ⁽¹⁾, and by Noble Five Mines who shipped one car of ore ⁽¹⁾. The property is now owned by Ernesco Resources Ltd. who are investigating the economic potential of the area.

The Venus vein has not been traced uphill beyond a fault which cut off the ore nor has it been followed down dip below the lowest workings. The Juno vein has not been explored for more than 200 metres on strike or 100 metres down dip. Both vein structures may contain viable ore-shoots and the property is in a favourable geological environment for the discovery of other vein systems, being on or near the convex nose of a granodiorite intrusive ⁽²⁾.

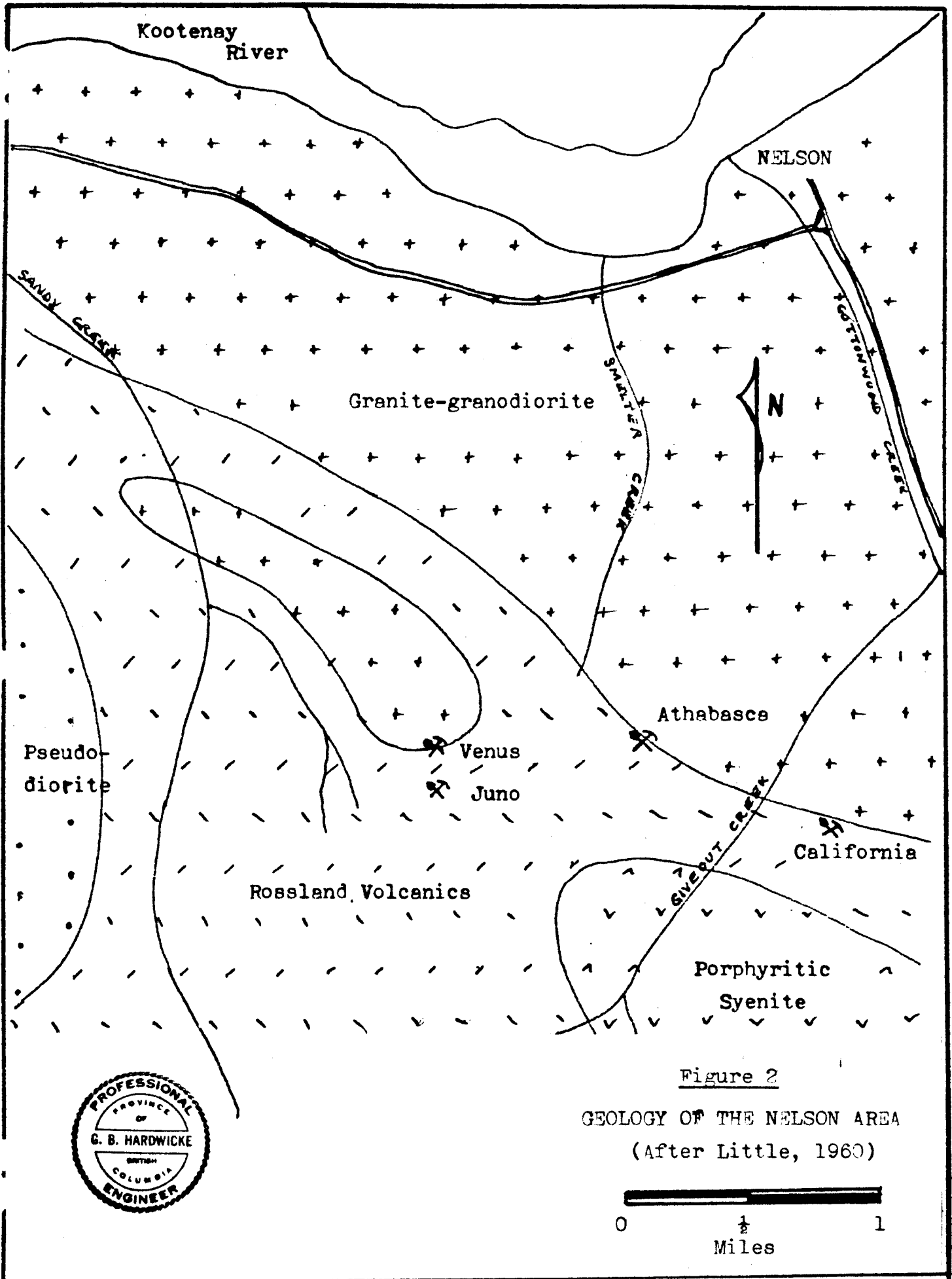
GEOLOGY

The property is underlain by basic volcanic flows (augite porphyry, andesites, etc.) of the Rossland Volcanic Group which have been intruded by various phases of the Nelson Batholith^(1,3). (Figure 2) Quartz veins, varying from stringers to one metre in width, occupy shear zones in both the volcanics and the granodiorite. These veins carry pyrite with minor galena and sphalerite. Values are mainly in gold with some silver.⁽³⁾.

The Venus vein, which cuts both the volcanics and the granodiorite, strikes N.25°-40° W. and dips northeast at 20 to 40 degrees. The vein reportedly followed a basic dike in the lowest adit⁽¹⁾. The Juno vein is entirely within the volcanics and is almost at right angles to the Venus vein. It strikes N.60°E. and dips 55°-60° northwest.⁽³⁾ The two veins should intersect but the juncture was not located by any of the old workings.

All the mine openings, except the adit on the Juno, are caved in and little can be learned of the conditions obtaining in the Venus mine.

The surface is covered extensively by overburden and rock outcrops are rare in the mine area.



SURVEY CONTROL

The survey records of the old crown grants were obtained and a base map was prepared for the geophysical and geochemical surveys. Most of the old claim posts were located on the ground and the grid lines were tied into these reference points by chain and compass.

SUMMARY OF EXPLORATION WORK

Geochemical Survey

Approximately 5.2km. of line were established with the lines oriented so as to cross both the Venus and Juno veins and any complimentary structures which might exist. Line spacing was 90 metres except where fill-in lines were required. Samples were taken at 15 metre intervals by trowel from the B horizon and were analyzed for gold, silver, lead, zinc and copper. A total of 372 samples were taken in 1984 and the results were combined with the results from 309 samples taken in 1983 (4.8km.of line) for interpretation purposes.

The A horizon on the property ranges from 4 to 30 cm. in thickness and the B horizon ranges from 3 to 10 cm. in thickness.

Claims which were soil sampled during 1984 were the Kirkwall, Juno, Venus, Orion, Jupiter, Bee and Bee Fr.

Geophysical Survey

A geophysical survey was carried out by Interpretex Resources Ltd. of Vancouver, B.C., and a copy of their report is appended to this report. This survey utilized the grid lines established for the geochemical survey and was designed to investigate the area of highest soil sample assay values. Some 267 readings were taken with a magnetometer and EM-16 over approximately 4 km. of line on the Venus, Orion, Jupiter, Bee and Bee Fr. claims.

DISCUSSION OF GEOCHEMICAL RESULTS

Based on the type of mineralization know to occur in the area, the most significant elements which have been plotted for the geochemical study are gold, silver, lead and zinc.

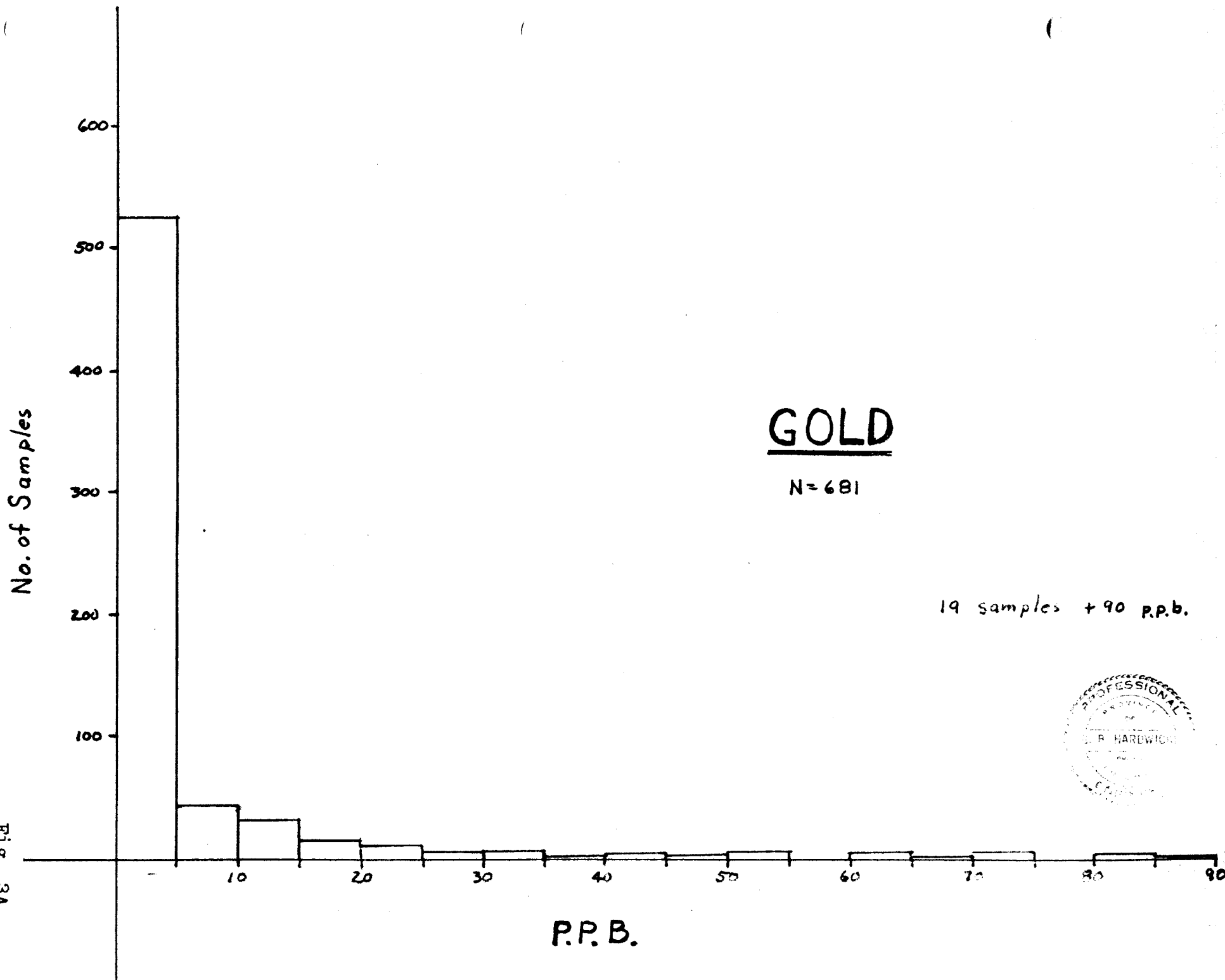
Histograms and frequency distribution diagrams for these elements (Figures 3 to 6, A and B) suggest the following breakdown for background, weakly anomalous, moderately anomalous and strongly anomalous values :

<u>Gold</u>	Background	0 - 15 p.p.b.
	Weakly anomalous	20 - 35 p.p.b.
	Moderately anomalous	40 - 60 p.p.b.
	Strongly anomalous	+ 60 p.p.b.
<u>Silver</u>	Background	0 - 1.1 p.p.m.
	Weakly anomalous	1.2 - 2.4 p.p.m.
	Moderately anomalous	2.5 - 3.4 p.p.m.
	Strongly anomalous	+ 3.4 p.p.m.
<u>Lead</u>	Background	0 - 30 p.p.m.
	Weakly anomalous	31 - 40 p.p.m.
	Moderately anomalous	41 - 60 p.p.m.
	Strongly anomalous	+ 60 p.p.m.
<u>Zinc</u>	Background	0 - 150 p.p.m.
	Weakly anomalous	151 - 200 p.p.m.
	Moderately anomalous	201 - 300 p.p.m.
	Strongly anomalous	+ 300 p.p.m.

Two areas with high geochemical values in all metals were noted. One, north of the portal of the Juno adit, is possibly due to contamination from mining operations and has not been investigated as yet. The other, larger area to the northwest of the Venus No. 8 adit was trenched at three locations with a backhoe but bedrock was not found. This area is underlain by basal till in excess of four metres in thickness and drilling will be required to

HISTOGRAM - GOLD

Fig. 3A



p.n.b.

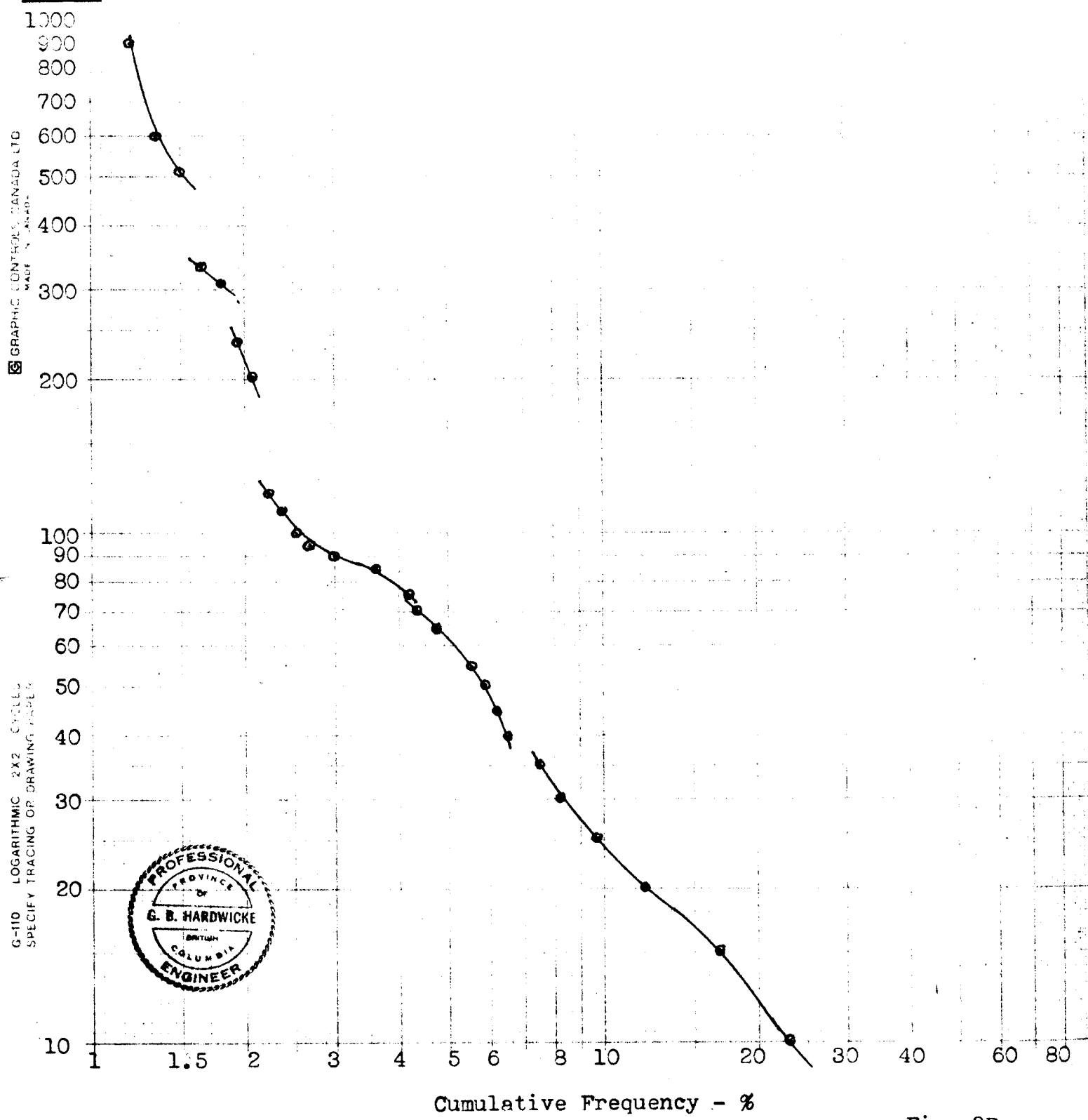
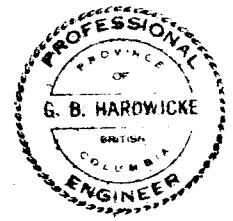
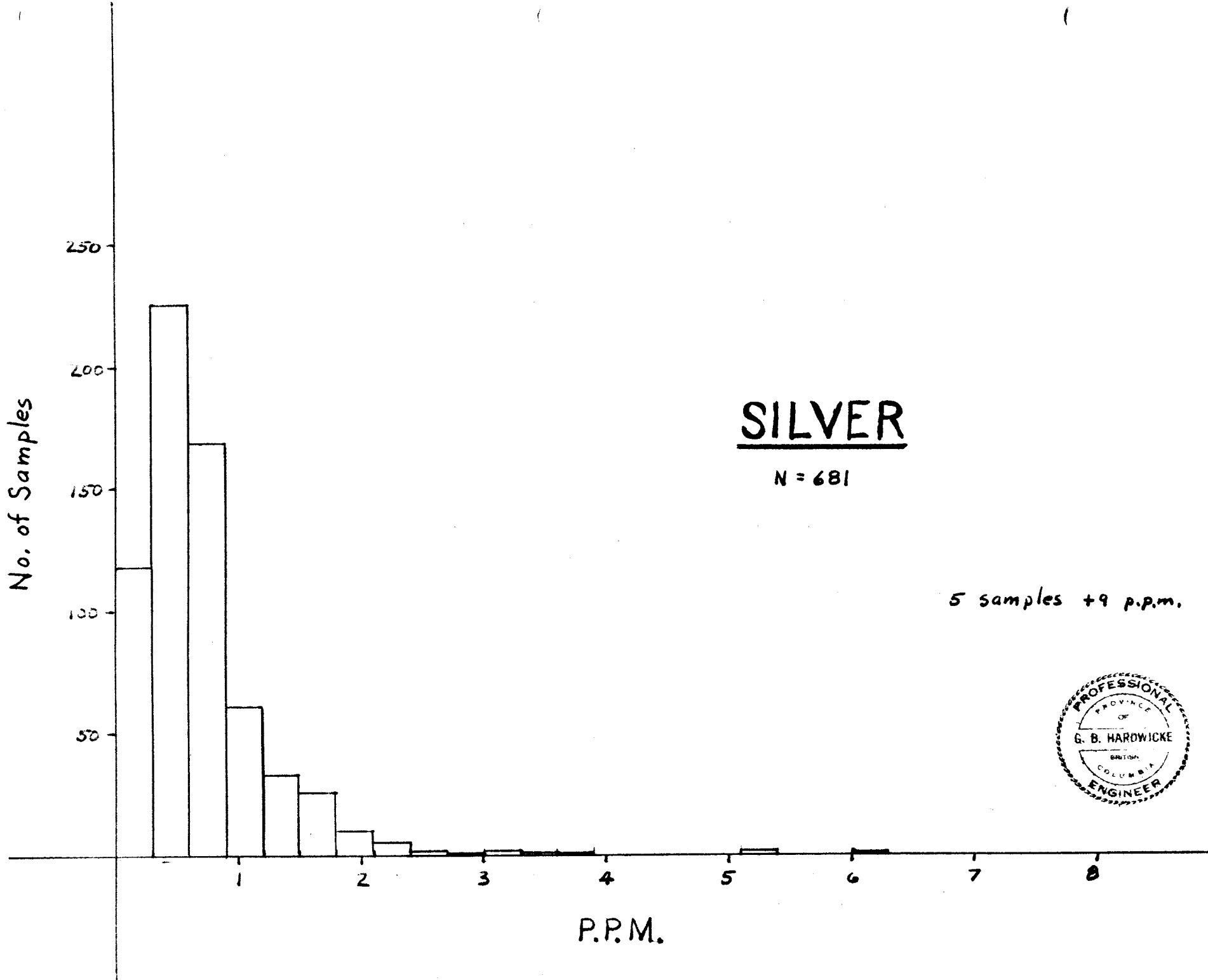


Fig. 3B

CUMULATIVE FREQUENCY
DIAGRAM - GOLD

Fig. 4A



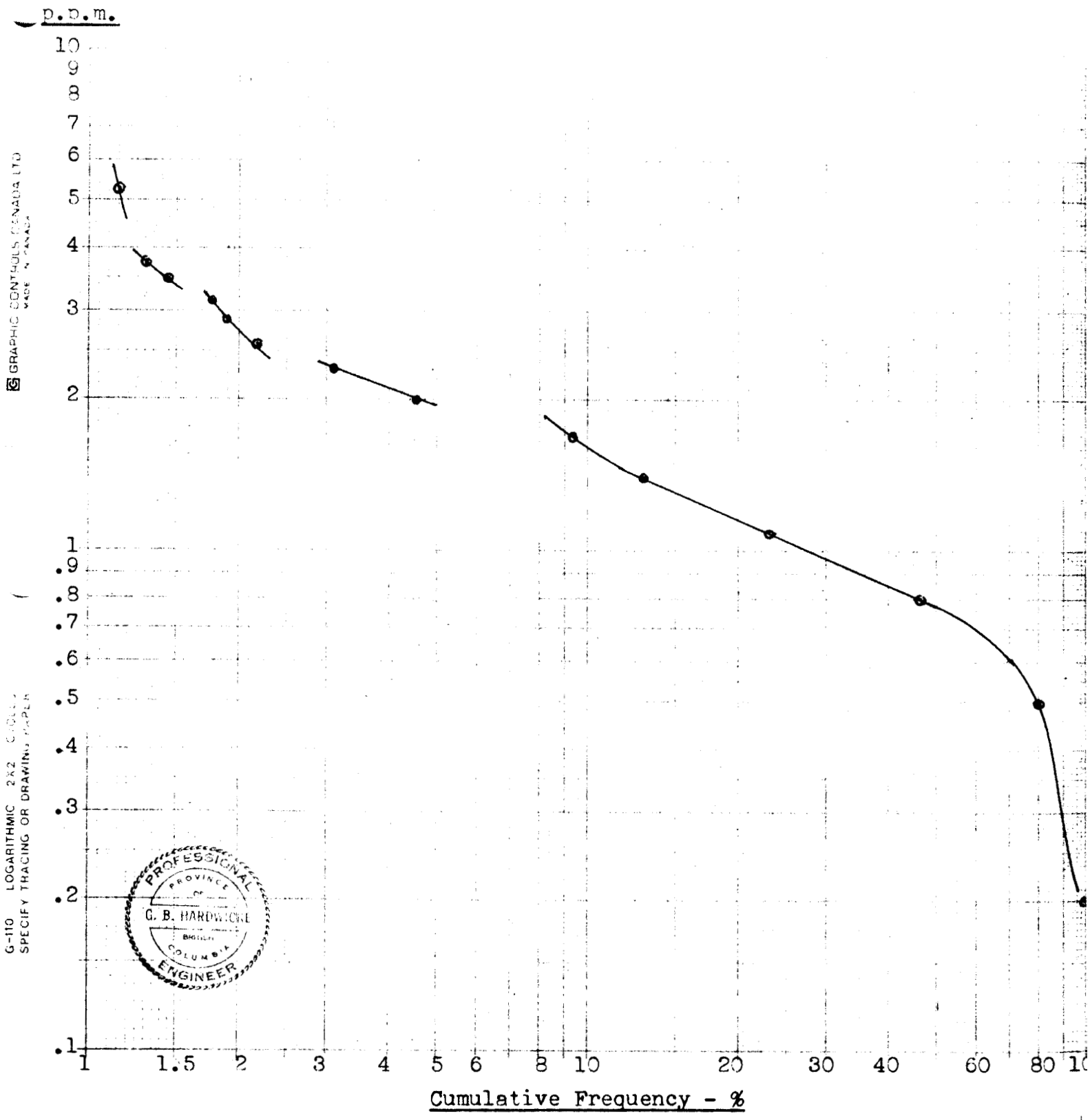
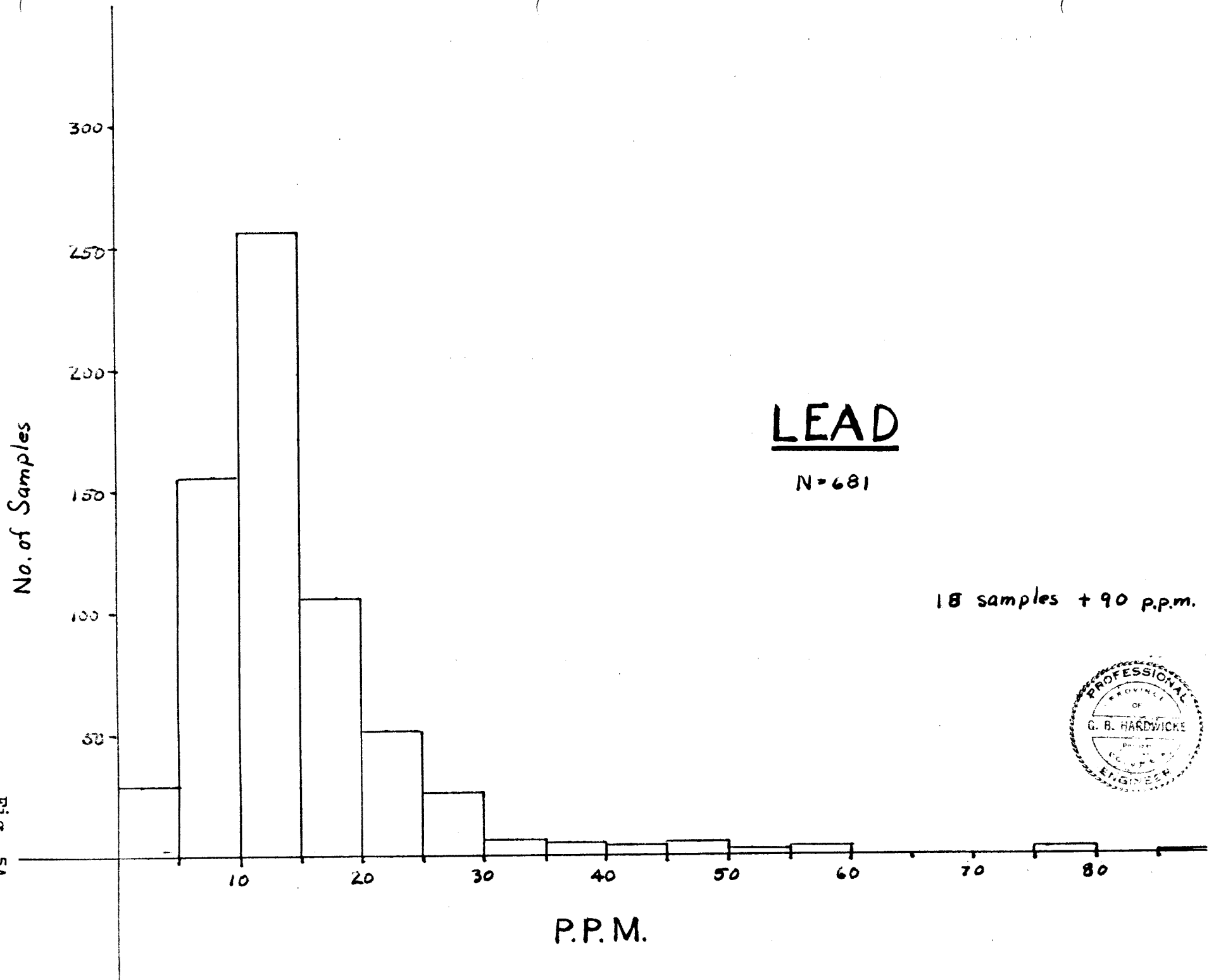


Fig. 4B

CUMULATIVE FREQUENCY
DIAGRAM - SILVER

HISTOGRAM - LEAD

Fig. 5A



n.p.m.

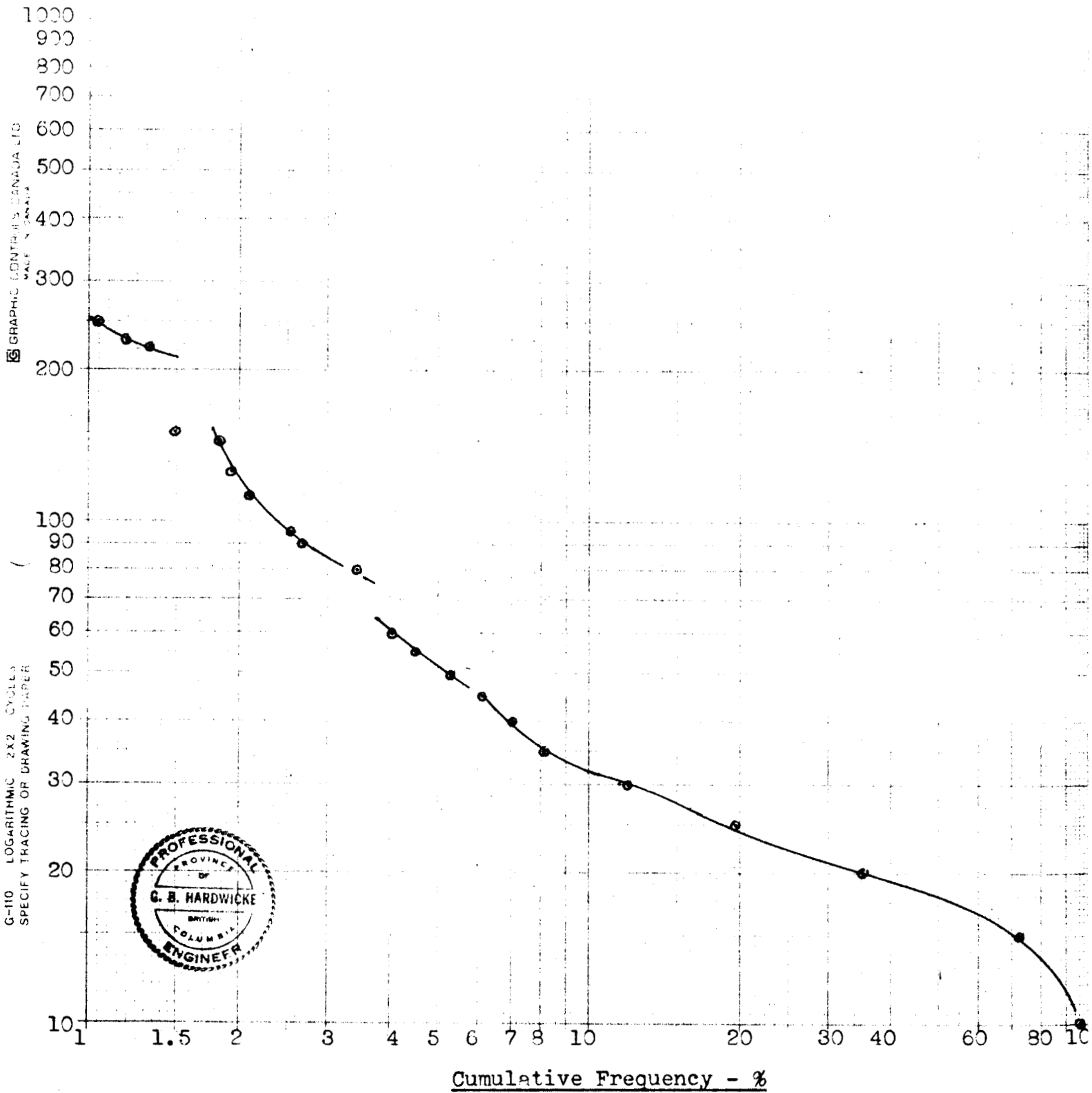
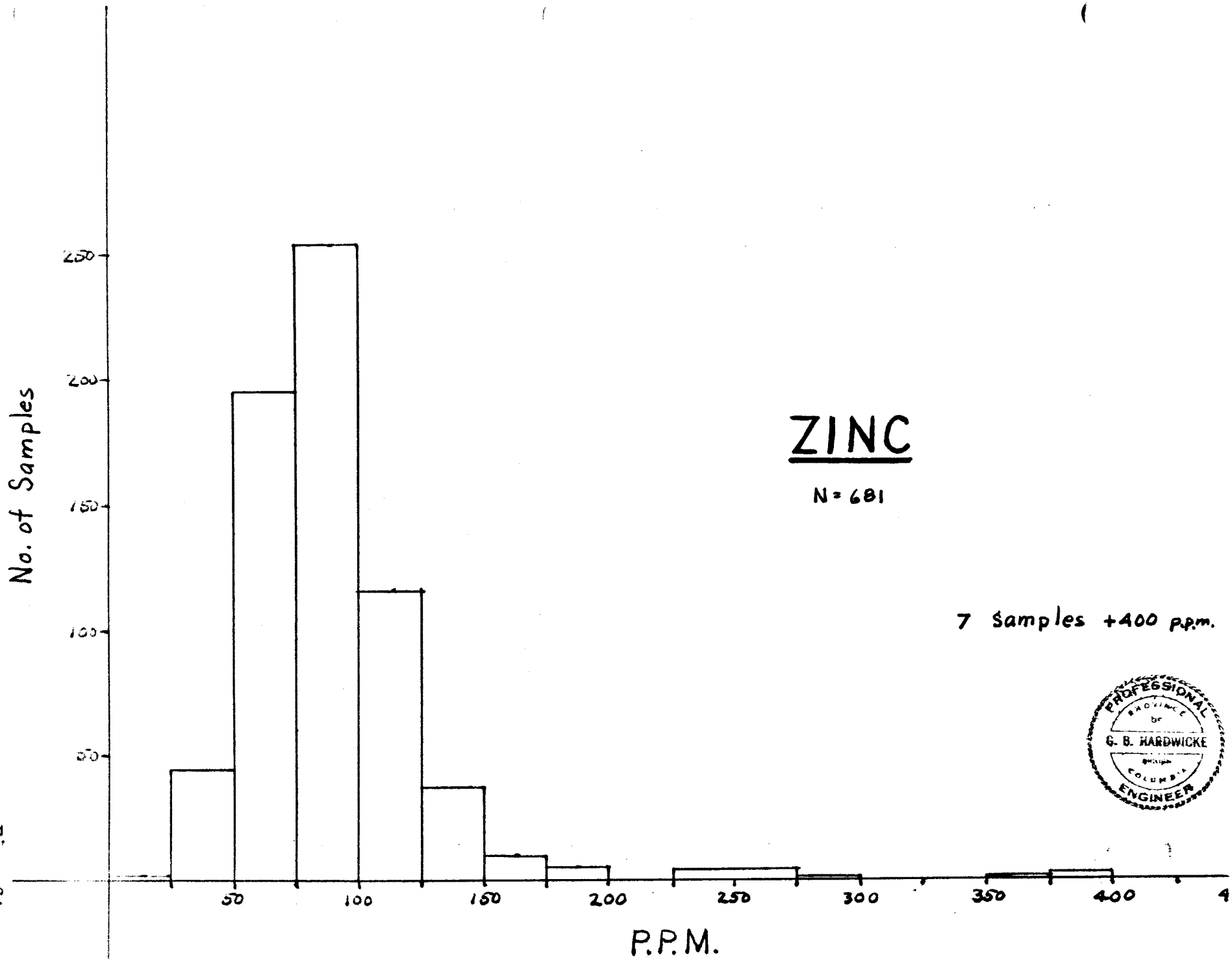


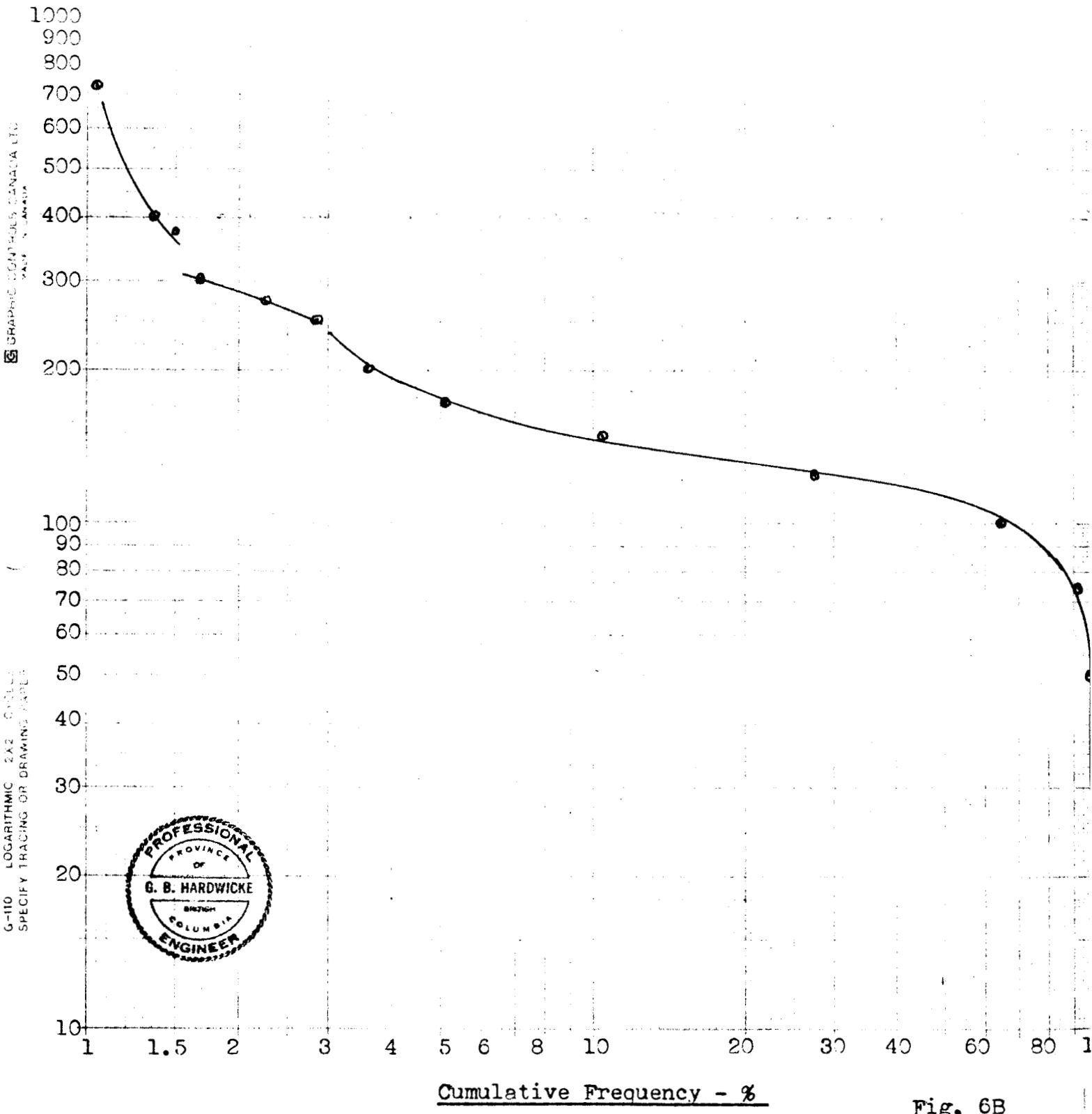
Fig. 5B

CUMULATIVE FREQUENCY
DIAGRAM - LEAD

Fig. 6A



D.D.M.



G-110 LOGARITHMIC 2X2 CYCLE SPECIFY TRACING OR DRAWING PAPER



Cumulative Frequency - %

Fig. 6B
CUMULATIVE FREQUENCY
DIAGRAM - ZINC

determine the source of the mineralization. Quartz fragments, some of them mineralized with pyrite and galena, were found in the excavated material.

Outside of these two areas the lead, zinc and, to some extent, the silver anomalies do not coincide closely with the gold anomalies.

Anomalous gold values found on the Kirkwall claim appear to line up with the Juno vein and should be followed up. A zone of anomalous gold values trending across the Orion claim should be investigated since it coincides with an EM conductor.

Soil geochemistry results are shown on Plans 1 to 4 ; Plan 5 shows the gold geochemistry results superimposed on the geophysical interpretation map, together with the location of the old adits and the approximate position of the volcanic-granodiorite contact.

DISCUSSION OF GEOPHYSICAL SURVEY RESULTS

The geophysical survey indicates the presence of three EM conductors (see appended report). The strongest conductor lies just to the northwest (downslope) from the

area of coincident geochemical highs near the Venus No. 8 adit. Another coincides with a zone of high gold values trending across the Orion claim, while the third, near the south side of the Jupiter claim, is at the ends of the geochemical grid lines and may or may not be associated with geochemical highs. All are worthy of further investigation.

Magnetometer highs on the south ends of lines 6 & 7 (see Plan 5) correspond with the assumed contact between the volcanics and the granodiorite.

A line of magnetic highs trending southeast across the Jupiter claim may indicate the presence of a basic dike (Interpretex Resources, personal communication). (See Plan 5). Since the Venus vein was known to follow a basic dike⁽¹⁾, it is possible that this dike, if present, may also be accompanied by a vein.

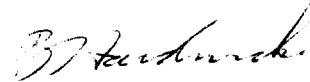
CONCLUSIONS

It may be reasonably concluded that the results of the geochemical and geophysical surveys warrant the trenching and/or drilling of the known anomalies where EM and/or magnetometer anomalies coincide with high gold geochemical results.

CERTIFICATE

I, G.B. Hardwicke, Mining Engineer, of Box 637, Grand Forks, B.C., hereby certify that :

1. I am a graduate of the University of British Columbia, B.A.Sc. (Mining), 1955.
2. I am a registered Professional Engineer in the Province of British Columbia and have been practicing my profession for 29 years.
3. This report is based on work performed by myself or under my direct supervision.
4. I have not received, nor do I expect to receive, directly or indirectly, any interest in the subject property or in any securities of any company which may develop the property.



G.B. Hardwicke, P. Eng.

November 1, 1984

SUMMARY OF CLAIMS

<u>NAME</u>	<u>C.G. No.</u>	<u>RECORD No.</u>
Juno	3161	34
Venus	4293	791
King of the Forest	3160	901
Kirkwall	3162	902
Orion	4294	899
Jupiter	4298	900
Bee :	---	3764
Bee Fr.	---	3765

Nelson Mining Division, N.T.S. Map 82F/6W

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1. Annual Reports of the Minister of Mines of B.C.
1897 to 1941.
2. Mulligan, R.; Bonnington Map Area, G.S.C.
Paper 52-13, 1952.
3. Cockfield, W.E.; Lode Gold Deposits of Ymir-Nelson
Area, G.S.C. Memoir 191, 1936.
4. Little, H.W.; Nelson Map Area, West Half,
G.S.C. Memoir 308, 1960.

ITEMIZED COST STATEMENT

Geochemical Survey

Consultant G. B. Hardwicke, P. Eng. June 24,30; July 2,7,15,22,29. Sampling 7 days @ \$ 250	\$ 1750.00
Report Preparation for Owners 4 days @ \$ 250	1000.00
Vehicle Expense 950 miles @ \$0.35	332.50
Labour : J. M. Hardwicke June 24,30; July 2,7,15,22,29. Sampling 63 hours @ \$ 10	630.00
Assay costs : 372 samples @ ave. \$ 8.81	3278.95
Freight on samples	31.60
Total	<hr/> \$ 7073.05

Geophysical Survey

One field day - August 23, 1984 Interpretex Resources Ltd.	\$ 1500.00
Consultant G. B. Hardwicke-one day @ \$250	250.00
Vehicle Expense 190 miles @ \$ 0.35	66.50
Total	<hr/> \$ 1816.50
Total Cost of Program	\$ 8889.55

FIELD REPORT
ON
VLF ELECTROMAGNETIC AND MAGNETIC SURVEYS
ON THE
VENUS PROPERTY

IN THE
NELSON AREA, BRITISH COLUMBIA

FOR
ERNESCO RESOURCES LTD.

BY
INTERPRETEX RESOURCES LTD.

Vancouver, B.C.
Aug. 30, 1984

Project #84615
E.R. Rockel

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Figure #3	VLF EM Profile Map	map pocket
Figure #4	VLF EM Enhanced Derivative Values	map pocket
Figure #5	VLF EM Enhanced First Derivative Contours	map pocket
Figure #6	Total Field Magnetic Values	map pocket
Figure #7	Total Field Magnetic Contours	map pocket

1. SUMMARY

A number of mainly weak (compared to other VLF EM surveys) anomalies were found by this survey. A strong anomaly at line 8, station 25 may be coincident with tracks in an old adit but is believed to be a bona fide bedrock conductor and to continue westward.

Other conductors in the north and south extremities of the surveyed portions of lines 8, 10, 11, 12 and 13 may be related to structure.

A southeast magnetic high trend may be related to a southeast geochemical trend. Anomalies in the vicinity of these trends and associated with magnetic highs and lows are enhanced in priority.

A more basic rock type is suggested by steep magnetic gradients in the south portions of lines 6 and 7.

Conductors should be followed up by trenching or drilling. Priorities suggested are subject to revision by additional geological or geochemical knowledge. The possibility of clay as the cause of conductivity in some cases warrants the use of inexpensive initial follow-up methods.

2. INTRODUCTION

This report pertains to VLF electromagnetic and total field magnetic surveys carried out August 23, 1984 on the VENUS property for Ernesco Resources Ltd. Survey was performed on geochemistry lines which were established previously and oriented Az 014°.

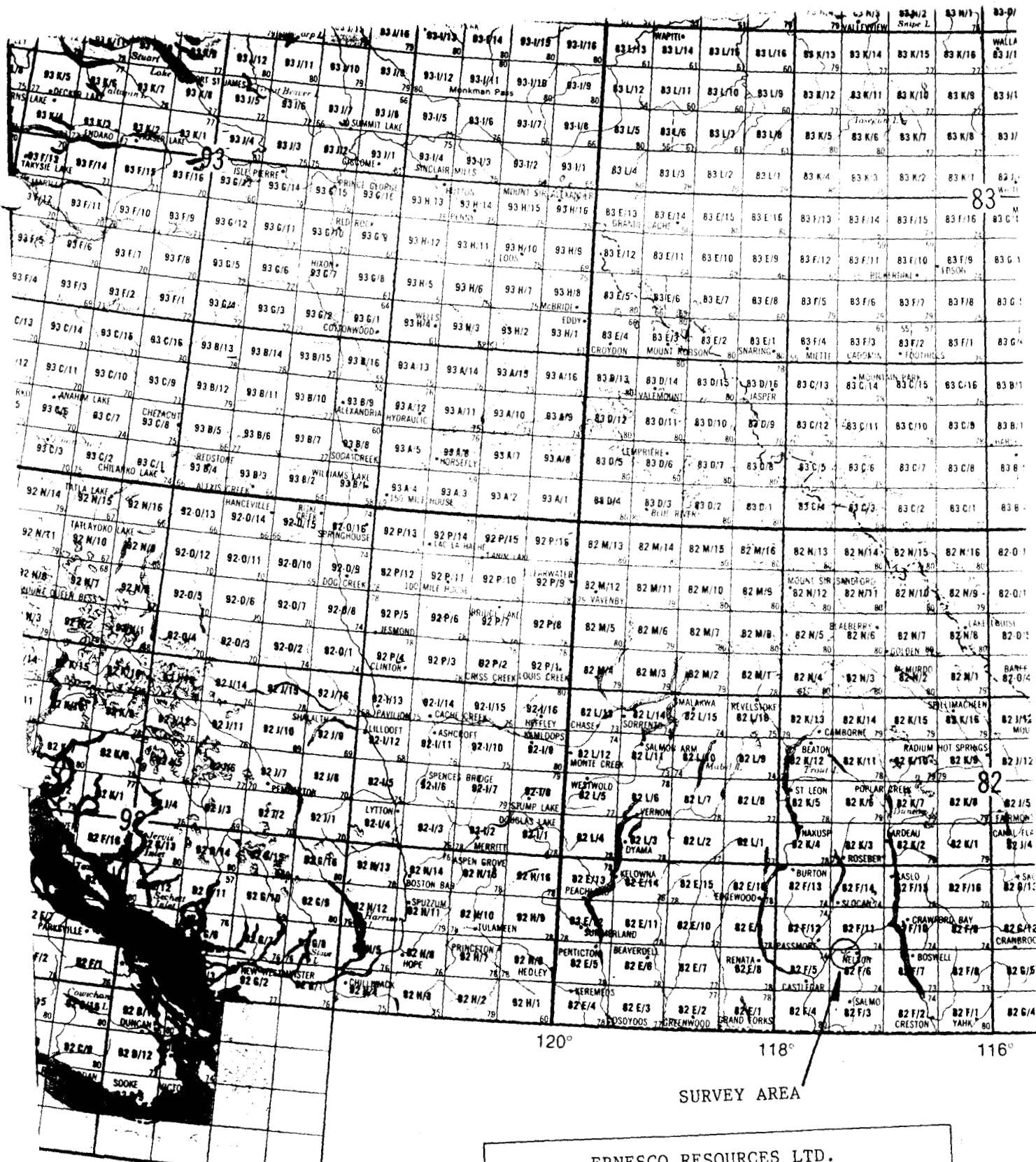
The property is located near Nelson, B.C. (Figure #1) with access by forestry and mining roads using four wheel drive trucks.

Geochemistry lines "6" through "13" inclusive were surveyed at stations as shown on Geophysical Interpretation Map (Figure #2). All readings were taken at 50 foot intervals. Some lines were lengthened, by pacing, in order to complete anomalous responses.

3. OBJECTIVES

The objectives of the surveys were as follows: -

- to determine if portions of the structurally related gold bearing quartz vein were conductive
- to outline additional areas of conductivity
- to investigate any correlation between electromagnetic or magnetic results with geochemical results
- to suggest priorities for additional follow-up exploration.



ERNESCO RESOURCES LTD.	
LOCATION MAP	
TO ACCOMPANY REPORT BY E.R. ROCKEL	
IR INTERPRETEX RESOURCES LTD.	SCALE: N.T.S.
	DATE: Aug 1984 FIGURE NO. 1 DRAWN BY

4. METHOD

A Geonics EM-16 and Exploranium G-816 magnetometer were used for the surveys. Variations of the earth's magnetic field were controlled using the "tie-back" method and application of linear drift correction curves to the data. No corrections were made to VLF EM data.

In-Phase and Out-of-Phase VLF EM readings (in percent) were taken using the Annapolis, Maryland and Cutler, Maine VLF transmitting stations. Cutler was used only on line 6 when Annapolis temporarily shut down. Direction to the two stations was nearly identical thus data were deemed to be equivalent. All readings were taken facing in a northerly direction.

In-Phase and Out-of-Phase VLF EM readings were profiled and presented on Figure #3.

An "enhanced" first derivative filter was applied to all In-Phase readings. The enhanced derivative values (normal derivative times π), shown on Figure #4, were then contoured and presented on Figure #5.

All magnetic readings were taken using a staff modified for mountain use. Corrected total field magnetic values were posted on Figure #6, then contoured and presented on Figure #7.

5. DISCUSSION AND CONCLUSIONS

VLF EM data show a consistent negative bias (all negative In-Phase readings - Figure #3) due to a downward topographic slope to the north. A number of anomalies of various strengths can be seen superimposed on the negative bias. All anomalies show low conductance and most are weak relative to "typical" VLF EM response in other areas. The only strong response was found on line 8 at approximately station "25". Although this anomaly may be coincident with an old adit and therefore could be caused by tracks in a tunnel, the writer believes that its strength and abrupt termination between line 8 and line 9, plus possible correlation with anomalies on lines 10 and 11, signifies that the anomaly could be due to conductive material within bedrock. This conductor "system", shown on Figures #2 and #5 is considered high priority for follow-up exploration.

Another notable conductor system can be seen on Figures #2 and #5 near the north ends of the surveyed portions of lines 8, 11, 12 and 13. Although weaker than that on line 8, station 25, these anomalies are strong relative to most others in the area. The system may represent a west-north-west trending structural feature. It is considered second priority for follow-up.

A group of anomalies near the south ends of lines 10, 11, 12 and 13 form another "system" which also could reflect structure and is considered third priority for follow-up.

Weak anomalies which appear to correspond to geochemical highs are considered fourth priority. They are as follows:

- line 10 station 20 (approx.)
- line 9 stations 5 and 7 (approx.)
- line 6 station 35 (approx.).

Other VLF EM anomalies, unless enhanced by additional information, are considered low priority for follow-up exploration.

Magnetic results indicate a southeast magnetic high trend (shown by "M" symbols on Figure #2), that appears to occur slightly to the south of and sub-parallel to a south-east geochemical anomalous trend. Furthermore, some anomalous magnetic lows seem to correlate with geochemical anomalies.

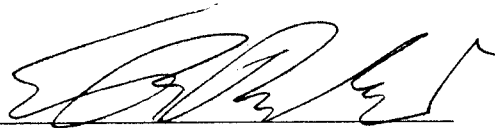
For this reason individual E.M. anomalies in the vicinity of the magnetic highs and lows can be considered as enhanced beyond priorities originally stated above.

Steep magnetic gradients in the south portions of lines 6 and 7 indicate a more basic rock type in this region. The contact between more basic rocks (volcanics ?) and granitic rock is believed to be in the vicinity of stations "57" and "62" on line 6 and around stations 105 and 106 on line 7. A conductor on line 6 at stations 46 to 47 is associated with a magnetic high and should be investigated for the presence of pyrrhotite.

6. RECOMMENDATIONS

Conductors and anomalies outlined by the survey should be followed up by trenching or drilling to determine the cause of conductivity and relationship to gold mineralization. Priorities listed above can serve as a guide for follow-up but may change according to additional geological or geochemical information. The possibility of clay layers as the cause of conductivity must be considered in some cases and thus an inexpensive method of follow-up (such as trenching by back-hoe or explosives) should be considered first.

RESPECTFULLY SUBMITTED

A handwritten signature in black ink, appearing to read 'E.R. Rockel', written over a horizontal line.

E.R. ROCKEL

INTERPRETEX RESOURCES LTD.

CERTIFICATE

I, Edwin Ross Rockel, geophysicist of Vancouver, British Columbia, hereby certify that;

1. I received a B.Sc. degree in Geophysics and Geology from the University of British Columbia in 1966.
2. I have been practising my profession since graduation.
3. I am a Professional Geophysicist registered in the Province of Alberta.
4. I hold no interest in, or expect to receive any benefits from the mineral property or properties described in this report.

Date:

Aug. 30/84

Vancouver,
British Columbia

Signed:



Edwin Ross Rockel
B.Sc., P.Geoph.

GEOCHEMICAL LABORATORY METHODOLOGY

Acme Analytical Laboratories Ltd.

352 E. Hastings Street

Vancouver, B.C., V6A 1R6

Sample Preparation

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis

For : Ag., Pb., Zn. and Cu.

0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 ml. with demineralized water. Extracted minerals are determined by Inductively Coupled Argon Plasma (ICP).

For : Au.

10.0 gram samples that have been ignited overnight @ 600° C are digested with hot dilute aqua regia and the clear solution obtained is extracted with Methyl Isobutyl Keytone (MIBK). Au. is determined in the MIBK extract by Atomic Absorption using background correction.

Oct 5/83

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
 Au# ANALYSIS BY AA FROM 10 GRAM SAMPLE.
 SAMPLE TYPE - SOIL

ASSAYER *D. Jeyar* DEAN TOYE, CERTIFIED B.C. ASSAYER

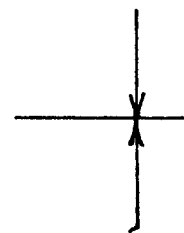
ERNESCO RES

FILE # 83-2341

PAGE# 1

SAMPLE	PB ppm	ZN ppm	AG ppm	AS ppm	Au# ppb
1	12	62	.5	6	5
2	14	74	.3	11	5
3	12	41	.3	8	10
4	17	69	.2	13	5
5	9	50	.4	14	5
6	33	30	.2	8	5
7	26	67	.9	13	10
8	24	82	.2	13	5
9	13	61	.7	6	5
10	10	89	.7	8	5
11	15	74	.6	8	5
12	22	85	1.5	7	20
13	18	52	2.1	5	5
14	12	84	1.3	6	10
15	17	60	1.1	11	5
16	16	115	1.3	12	5
17	21	94	1.2	8	5
18	13	74	.7	8	5
19	15	65	.3	7	5
20	18	97	1.2	9	5
21	16	100	.6	5	5
22	23	118	.8	8	15
23	24	94	.5	12	35
24	14	101	.8	11	5
25	12	93	.9	12	5
26	14	54	1.0	2	5
27	20	95	.8	7	10
28	16	90	1.0	7	10
29	14	120	1.6	10	45
30	23	106	.9	13	40
31	36	88	.3	18	10
32	22	61	.4	13	5
33	29	148	1.4	9	5
34	23	125	1.8	10	5
35	15	96	1.3	8	5
36	47	397	1.8	13	45
37	22	110	2.0	5	5
STD A-1/AU 0.5	39	183	.3	11	540

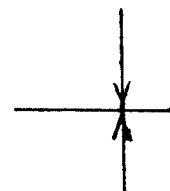
Line 4



Line 3

SAMPLE	PB ppm	ZN ppm	AG ppm	AS ppm	AUX ppb
38	16	140	.7	5	15
39	22	123	.4	6	30
40	25	97	.1	6	70
41	18	98	1.5	6	15
42	15	58	.8	2	15
43	20	75	.7	14	5
44	24	75	.8	15	5
45	12	75	.4	2	5
46	19	85	.1	12	30
47	27	77	.5	5	5
48	13	108	.2	3	5
49	8	47	.9	7	10
50	12	58	1.8	4	5
51	16	95	.5	7	5
52	16	100	.5	3	5
53	7	55	.1	5	5
54	17	75	1.3	9	5
55	12	62	1.1	5	5
56	15	71	1.0	7	5
57	11	60	1.5	11	5
58	12	71	.7	4	5
59	19	78	.5	2	5
60	22	78	.4	12	25
61	20	67	.6	5	10
62	17	100	.2	6	5
63	15	39	.6	6	5
64	14	72	.9	8	5
65	16	91	.1	11	5
66	16	100	.4	4	5
67	20	87	.4	5	5
68	25	95	1.8	8	5
69	22	80	.6	7	5
70	11	116	.5	2	90
71	15	122	.5	8	15
72	9	20	1.0	8	10
73	14	83	.1	6	65
74	15	101	.7	7	50
STD A-1/AU 0.5	40	178	.3	11	540

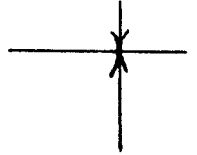
Line 3



Line 2

SAMPLE	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
75	10	56	1.0	9	5
76	16	76	1.1	9	10
77	10	77	.4	7	10
78	5	120	.8	9	5
79	12	125	.7	12	5
80	9	110	.5	10	5
81	13	91	.7	12	5
82	7	95	.4	6	5
83	12	102	.7	9	10
84	13	100	1.2	9	5
85	12	110	1.0	4	5
86	15	89	.8	8	5
87	19	122	.5	11	20
88	30	128	.6	8	10
89	39	126	.4	2	15
90	30	106	.5	5	5
91	14	82	1.2	10	5
92	15	73	.7	11	5
93	12	56	.6	12	5
94	13	50	2.2	11	5
95	13	109	.8	11	5
96	12	94	1.4	11	5
97	24	110	1.7	7	5
98	10	73	1.1	7	5
99	13	64	2.0	11	5
100	17	104	.5	10	5
101	12	81	3.2	5	5
STD A-1/AU 0.5	39	183	.3	10	510

Line 2



Line 1

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS, VANCOUVER B.C.
 FH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 5 1983

DATE REPORTS MAILED *Oct 15/83*

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppb.
 AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.
 SAMPLE TYPE - SDI

ASSAYER *N. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

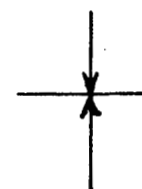
B. HARDWICKE

FILE # 83-2459

PAGE# 1

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
1	72	11	105	2.0	8	5
2	45	15	120	1.7	10	5
3	28	11	91	1.7	10	5
4	32	10	61	1.1	9	5
5	32	8	78	2.3	7	5
6	28	12	63	.6	4	5
7	37	11	115	1.2	9	5
8	43	10	79	3.0	13	5
9	37	11	74	.8	4	5
10	13	8	89	.9	7	5
11	16	7	97	.5	8	5
12	11	9	91	.8	5	5
13	19	9	82	1.1	9	5
14	19	7	68	1.7	7	5
15	49	7	80	1.1	8	5
16	31	5	84	2.3	7	5
17	63	6	82	2.0	12	15
18	45	11	69	1.1	11	5
19	59	6	99	.7	7	5
20	41	77	296	1.3	2	5
21	44	14	103	1.5	4	5
22	33	8	75	1.5	3	5
23	52	3	68	1.4	8	5
24	28	4	76	1.2	7	5
25	27	5	137	1.6	13	5
26	40	9	163	1.7	13	5
27	91	78	366	3.1	21	85
28	63	91	249	1.9	18	315
29	685	69	256	3.6	26	1650
30	43	10	75	.8	7	5
31	51	6	78	.7	6	5
32	69	6	64	.1	5	5
33	74	16	90	.9	16	5
34	36	8	58	.5	9	5
35	38	9	62	.5	12	5
36	39	9	72	.6	7	5
37	52	14	65	.4	11	5
STD A-1/AU 0.5	30	38	181	.3	11	530

Line 4
North

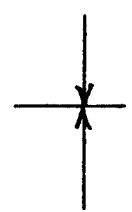


Line 5



SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	Aux ppb
38	74	15	54	.7	8	5
39	76	14	80	.4	10	5
40	77	25	125	.7	8	5
41	28	14	77	.3	9	5
42	21	12	92	.6	5	5
43	14	15	62	1.2	5	5
44	16	19	97	.6	7	5
45	20	13	85	.5	6	5
46	14	13	64	.2	3	5
47	14	12	78	.6	5	5
48	9	14	73	.4	4	5
49	15	12	81	.8	4	20
50	16	19	80	.5	4	5
51	12	13	70	.6	6	5
52	21	11	60	.3	5	5
53	15	18	123	.4	7	5
54	38	18	161	.3	7	5
55	50	35	133	.5	7	15
56	82	18	156	1.7	12	5
59	14	17	132	1.0	7	30
60	12	12	111	1.8	6	5
61	12	16	122	.8	9	5
62	12	22	93	.7	9	5
63	25	18	63	.4	6	5
64	36	12	73	.5	9	5
65	32	15	59	.5	9	5
66	46	15	65	.5	10	10
67	37	11	80	.9	6	20
68	46	15	91	.9	10	5
69	69	15	77	.5	8	15
70	34	14	55	.4	8	5
71	48	20	72	.2	10	5
72	26	14	56	.3	9	5
73	51	16	71	.4	9	15
74	19	20	70	.4	15	5
STD A-1/AU 0.5	30	38	179	.3	11	540

Line 6



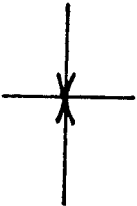
Line 2
North



A Acme's own standard

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
75	56	8	77	1.1	8	5
76	63	14	128	.5	15	5
77	55	12	80	.4	10	5
78	50	26	101	.9	14	10
79	59	15	77	.4	16	5
80	80	74	167	1.2	12	5
81	93	27	151	.9	11	25
82	50	15	93	.6	11	5
83	48	11	122	.6	11	5
84	99	11	105	.8	16	5
85	17	10	81	.3	12	5
86	19	15	91	.4	4	5
87	12	12	116	.8	12	5
88	24	9	73	1.0	7	5
89	23	14	85	.3	12	5
90	43	13	103	.4	8	5
91	21	11	96	.5	10	5
92	24	14	77	.5	5	10
93	14	12	62	.1	2	15
94	18	14	97	.7	6	5
95	13	17	121	.3	7	5
96	17	10	80	.8	2	5
97	13	11	73	.1	2	5
98	13	15	115	.4	5	5
99	17	16	88	.2	5	5
100	10	13	80	.6	5	5
101	17	17	88	.3	8	5
102	21	14	92	.6	3	5
103	11	13	53	.1	2	5
104	33	19	95	1.3	6	5
105	23	16	110	.6	7	10
106	13	14	64	.2	3	5
107	16	13	109	.3	5	15
108	38	47	112	.3	3	85
109	24	11	79	.3	12	5
110	24	18	135	.7	16	5
111	18	12	100	.5	6	25
STD A-1/AU 0.5	30	38	181	.3	10	510

Line 8



Line 7

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
112	22	12	79	.5	3	10
113	53	17	93	.9	10	5
114	26	11	81	.5	8	10
115	51	17	116	.8	8	5
116	53	9	87	.9	5	5
117	102	21	88	.5	11	65
118	42	11	59	.3	9	15
119	72	12	60	.7	5	5
120	54	13	81	.7	9	5
121	55	15	84	.7	17	10
122	25	12	34	.2	7	5
123	87	16	93	1.1	36	10
124	64	14	121	.5	17	15
STD A-1/AU 0.5	30	38	180	.3	10	510

Line 7

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS, VANCOUVER B.C.
 PH:253-3158 TELEX:04-53124

DATE RECEIVED NOV 8 1983

DATE REPORTS MAILED Nov 14/83

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppb.
 AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
 SAMPLE TYPE - SOIL

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

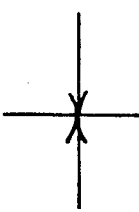
B.HARDWICKE

FILE # 83-2874

PAGE# 1

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
1	13	7	79	.5	6	5
2	13	8	61	.6	4	5
3	9	11	70	.3	2	5
4	9	8	45	.2	4	5
5	24	26	127	1.1	3	605
6	15	15	88	.5	6	20
7	29	824	886	2.5	14	235
8	117	8822	3435	13.9	175	3550
9	152	15978	3671	16.0	223	7480
10	19	96	85	.6	2	35
11	24	44	89	1.4	3	25
12	22	27	122	1.7	3	5
13	19	17	96	.9	5	5
14	24	21	58	.4	2	5
15	23	21	78	.1	2	5
16	26	115	232	1.0	2	20
17	20	43	152	.6	7	10
18	22	19	130	.6	5	5
20	52	91	254	.8	4	205
21	25	16	113	.2	3	5
22	22	13	70	.2	6	30
23	18	5	92	.3	2	5
24	15	11	92	.5	8	5
25	16	11	74	.3	11	5
26	17	10	63	.5	6	5
27	23	16	131	.8	2	5
28	23	14	128	.3	7	5
29	18	8	90	.2	2	5
30	18	9	89	.5	4	20
31	26	14	80	.5	12	5
32	19	11	63	.6	5	5
STD A-1/AU 0.5	30	38	184	.3	10	540

Line 9



Line 10

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS, VANCOUVER B.C.
 PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 2 1983

DATE REPORTS MAILED Nov 4/83

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
 AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.
 SAMPLE TYPE - SOIL

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

B. HARDWICKE FILE # 83-2804A

PAGE# 1

SAMPLE	CU ppm	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
1	108	13	119	1.6	5	5
2	63	15	88	.5	11	5
3	26	18	85	.5	6	5
4	53	16	73	.7	8	5
5	48	13	86	2.3	5	5
6	14	16	103	.6	5	10
7	85	15	121	1.6	9	5
8	66	13	123	1.0	5	10
9	82	60	188	1.7	6	5
10	38	97	246	3.7	13	10
11	69	17	143	.7	34	5
12	39	14	101	1.8	10	5
13	39	27	91	1.1	10	5
14	41	13	95	1.7	11	5
15	36	14	72	1.2	4	5
16	34	49	104	1.5	6	65
17	1372	144	234	5.2	54	2300
27A	71	326	401	6.0	8	920
28A	143	42	251	5.2	15	95
29A	130	33	158	1.4	15	15
STD A-1/AU 0.5	30	38	182	.3	10	510

Check sampling on Line 5

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.
 AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
 SAMPLE TYPE - SOIL

ASSAYER *B. Hardwicke* DEAN TOYE, CERTIFIED B.C. ASSAYER

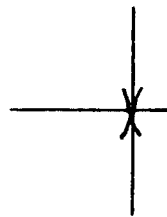
B. HARDWICKE

FILE # 83-2639A

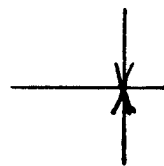
PAGE# 1

SAMPLE	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
1	11	101	2.4	7	10
2	234	176	2.4	11	2020
3	66	101	.4	10	25
4	13	115	.5	2	5
5	15	85	1.5	2	5
6	12	85	.9	2	5
10	8	85	.8	4	5
11	13	75	.7	8	5
12	11	90	.6	7	5
13	14	149	.8	5	5
14	13	122	2.7	5	5
15	15	87	.4	7	25
16	11	60	.3	3	15
17	31	109	.5	9	10
18	18	131	.9	16	5
19	14	81	.6	2	5
20	7244	4075	17.3	244	3900
21	6895	3699	10.1	183	2600
22	80	134	.7	13	35
23	143	270	1.4	9	90
24	17	118	1.4	4	5
25	14	86	1.0	2	5
26	30	108	1.4	9	55
27	23	104	.9	8	5
28	13	73	.5	9	5
29	13	70	.4	6	5
30	19	79	.7	2	5
31	19	75	.6	3	5
32	12	63	.6	5	5
33	11	90	.6	13	15
34	6	111	.3	11	5
35	12	107	.3	10	5
36	9	86	.3	9	5
37	13	104	.5	5	5
38	13	78	.5	11	5
39	13	86	.4	12	5
40	18	64	.6	18	5
STD A-1/AU 0.5	40	185	.3	10	545

Line 7
North



Line 5
North



Line 1
South



B. HARDWICKE

FILE # 83-2639A

PAGE# 2

SAMPLE	PB ppm	ZN ppm	AG ppm	AS ppm	Au* ppb
41	10	93	.4	9	5
42	11	104	.6	10	5
43	11	92	.4	16	10
44	9	99	.6	14	5
45	8	77	.8	6	15
46	13	119	.7	11	5

Line 2
South

CME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 24 1984

DATE REPORT MAILED: *July 26/84*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER

ERNESCO RES FILE # 84-1752

PAGE 1

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
1	97	15	72	.9	5
2	99	13	66	1.2	55
3	81	13	93	.9	5
4	85	15	110	1.1	5
5	158	13	76	1.7	5
6	27	10	61	.6	5
7	45	12	63	.8	5
8	41	11	91	.7	5
9	116	2	60	.7	5
10	58	10	96	.8	15
11	46	11	116	.8	5
12	56	22	104	.6	5
13	48	15	103	.9	20
14	29	11	72	1.0	5
15	48	9	84	.9	5
16	36	12	64	.7	5
17	113	12	101	.7	10
18	69	12	102	.9	5
19	58	21	113	1.0	5
20	34	12	79	.6	10
21	35	14	75	.6	5
22	85	5	113	.8	5
23	54	11	110	1.0	30
24	44	13	103	.9	5
25	43	6	86	.9	100
26	63	18	96	1.2	15
27	21	10	47	.6	5
28	75	6	68	.4	5
29	64	13	86	.7	10
30	37	20	92	.8	5
31	21	8	76	.7	5
32	22	9	53	.6	5
33	37	10	64	1.1	5
34	77	2	79	.8	5
35	42	5	67	.7	5
36	26	8	51	.9	5
37	24	4	46	.7	5
STD A-1/AU 0.5	126	119	188	35.2	495

Line 6



Line 8

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
38	50	10	79	.8	5
39	50	18	115	.8	5
40	69	13	89	.6	5
41	21	4	64	.8	10
42	46	10	79	1.4	35
43	21	9	42	1.2	5
44	58	10	86	.7	15
45	60	16	98	.7	5
46	24	7	54	.4	20
47	92	7	90	.5	5
48	49	5	84	.7	5
49	39	12	103	.5	10
50	58	9	93	.8	10
51	58	19	137	.8	5
52	26	12	73	.7	5
53	52	5	84	.6	5
54	112	10	114	.7	5
55	40	2	41	.6	5
56	28	6	46	.5	5
57	67	8	83	.6	5
58	41	10	82	.4	5
59	62	27	139	.5	5
60	87	6	125	.8	5
61	43	14	107	.6	5
62	49	21	113	.8	5
63	47	57	139	.7	15
64	37	15	97	.6	10
65	47	12	56	.6	5
66	82	19	93	.8	15
67	117	13	77	.6	15
68	70	8	93	.9	10
69	50	4	95	.8	5
70	38	7	71	1.2	10
71	39	17	81	.9	5
72	36	3	72	1.4	5
73	53	2	82	1.7	5
STD A-1/AU 0.5	124	116	186	35.3	510

Line 8

SCME ANALYTICAL LABORATORIES LTD.
 52 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 20 1984

DATE REPORT MAILED: *July 23/84*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL - TRANSFER SAMPLE TO ENVELOPE AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER

ERNESCO RES FILE # 84-1688

PAGE 1

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
1	24	23	51	.4	5
2	40	24	159	.5	5
3	15	11	58	.2	5
4	35	27	113	.4	5
5	24	28	104	.2	5
6	26	29	138	.3	5
7	22	25	104	.3	5
8	32	34	56	.3	5
9	9	7	77	.8	5
10	11	10	71	1.0	5
11	9	12	67	.8	5
12	15	10	69	.5	5
13	11	16	68	1.1	75
14	6	13	37	.7	5
15	4	11	65	.8	5
16	11	14	95	.8	5
17	15	15	83	.5	5
18	11	20	85	.9	5
19	16	18	60	.9	5
20	32	150	177	1.8	335
21	16	22	61	.6	5
22	15	11	47	.6	5
23	27	10	62	.5	5
24	32	20	44	.9	5
25	17	28	67	.7	5
26	25	14	63	.6	5
27	16	6	56	.6	5
28	31	7	49	.5	5
29	29	18	82	.7	5
30	60	20	69	.5	5
31	51	6	89	.7	5
32	26	11	114	.6	5
33	26	13	102	.7	5
34	23	14	76	1.0	15
35	29	11	71	.7	5
36	14	9	119	1.2	5
STD S-1/AU-0.5	124	117	186	39.7	510

Line 14

Line 4

E ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 10 1984

DATE REPORT MAILED: *July 17/84*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL - TRANSFER SOIL TO ENVELOPE AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER

ERNESCO RES FILE # 84-1507

PAGE 1

SAMPLE#	CU PPM	FE PPM	ZN PPM	AG PPM	AU* PPB
1	12	4	53	.3	5
2	15	9	92	.7	5
3	12	6	71	.4	5
4	23	8	86	.4	5
5	20	15	103	.5	5
6	17	16	79	.3	35
7	14	7	121	.5	5
8	19	2	67	.4	75
9	23	10	80	.2	20
10	12	10	77	.3	5
11	15	10	90	.3	5
12	12	13	59	.6	5
13	25	12	49	.8	5
14	12	21	42	.4	5
15	26	15	77	.4	5
16	20	15	90	.6	5
17	19	13	79	.4	5
18	15	10	82	.1	5
19	15	2	59	.3	5
20	10	13	67	.2	5
21	26	10	99	.3	5
22	11	5	38	.1	5
23	11	6	54	.3	5
24	14	11	45	.1	5
25	15	9	69	.2	5
26	7	46	28	.2	5
27	37	24	83	.9	5
28	24	13	96	.7	5
29	19	6	96	.8	5
30	21	16	114	.4	5
31	44	30	134	1.7	5
32	18	17	99	1.1	5
34	19	11	37	.8	5
35	37	13	60	.3	5
36	40	14	74	.2	5
37	51	21	100	.4	5
38	17	12	62	.4	5

Line 14

Line 13

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
39	24	13	70	.3	5
40	16	15	85	.4	5
41	32	14	86	.7	10
42	81	25	96	1.1	5
43	28	14	50	.3	5
44	29	23	100	1.9	5
45	32	16	95	1.5	5
46	49	30	103	.9	5
47	40	18	115	.7	5
48	24	21	64	.5	75
49	18	21	78	.6	85
50	17	15	48	.2	5
51	25	17	104	1.8	5
52	26	16	133	.9	5
53	22	9	117	.4	5
54	25	10	86	.4	5
55	24	20	131	.5	5
56	24	17	113	.4	5
57	10	15	113	1.1	5
58	6	19	81	.6	5
59	11	13	95	.3	5
60	8	11	56	1.0	5
61	21	10	88	.7	15
62	28	11	81	.3	45
63	17	11	80	.4	5
64	11	15	81	.7	5
65	20	16	68	.4	5
66	21	10	61	.3	15
67	17	8	84	1.0	5
68	15	19	60	1.8	5
69	16	18	45	.9	25
70	26	13	24	1.4	5
71	31	1037	736	1.9	510
72	14	37	39	.5	5
73	12	14	53	.5	5
74	13	55	90	.6	5
75	21	14	42	.1	5
STD A-1/AU 0.5	30	39	184	.3	505

Line 13

Line 9

Line 6

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
76	15	26	63	.4	105
77	26	19	55	.5	40
78	27	14	40	.3	20
79	27	10	81	.5	5
80	16	15	60	.3	5
81	51	7	72	.2	20
82	34	25	90	1.1	5
83	38	9	97	.8	5
84	35	8	88	.6	5
85	22	9	82	.4	5
86	81	7	57	.1	5
87	66	10	41	.3	5
88	72	9	41	.6	5
89	35	11	73	.8	5
90	57	13	80	.6	5
91	19	13	62	1.3	5
92	119	3	60	.5	5
93	34	8	86	1.1	5
94	35	8	60	.6	5
95	81	14	56	1.0	5
96	38	5	38	.7	5
97	54	16	83	.4	5
98	71	22	62	1.5	5
99	136	30	37	1.9	5
100	41	1	63	.6	5
101	45	12	95	.7	5
102	70	10	97	.4	5
103	32	9	75	.7	5
104	36	10	41	.5	5
105	31	22	54	.4	5
106	73	20	68	1.6	5
107	89	32	58	1.4	5
108	34	30	94	.8	5
109	38	24	87	.8	5
110	40	30	77	.6	5
111	20	12	120	.6	5
112	34	12	58	.3	20
STD A-1/AU 0.5	30	39	188	.3	500

Line 13

Line 8

SAMPLE#	CU PPM	FB PPM	ZN PPM	AG PPM	AU* PPB
113	21	10	32	.1	5
114	10	16	62	.3	5
115	21	11	87	.4	5
116	21	12	74	.8	5
117	26	9	82	.6	5
118	20	13	71	.8	5
119	75	8	74	.2	5
120	21	14	66	1.0	5
121	13	8	62	.5	5
122	28	11	88	.7	5
123	31	8	63	2.1	10
124	28	5	61	.8	15
125	21	9	90	.8	5
126	26	12	100	.6	5
127	37	13	67	1.0	5
128	43	20	70	.9	5
129	27	11	67	.9	5
130	28	13	86	.7	5
131	53	12	85	.5	5
132	13	11	83	1.0	5
133	12	14	70	.9	5
134	16	25	72	1.2	5
135	73	8	83	.3	5
STD A-1/AU 0.5	30	39	186	.3	490

Line 8

IC ANALYTICAL LABORATORIES LTD.
 152 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 HC 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 13 1984

DATE REPORT MAILED: *July 17/84.*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. Transfer sample to envelope

ASSAYER: *A. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER

ERNESCO RES

FILE # 84-1573

PAGE 1

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPM
1	18	14	74	.1	15
2	26	10	89	.1	5
3	29	11	92	.4	5
4	11	13	74	.1	5
5	13	17	84	.1	5
6	12	5	92	.6	5
7	29	8	73	.4	25
8	21	1	69	.5	5
9	18	17	83	.1	5
10	12	4	64	.3	5
11	17	7	68	.3	5
12	15	9	94	.1	10
13	12	4	111	.2	5
14	14	10	88	.7	5
15	13	9	105	.6	5
16	17	2	56	.1	5
17	12	9	76	1.4	5
18	12	7	58	.4	5
19	23	6	123	.1	25
20	35	10	83	.2	5
21	8	8	23	.2	5
22	18	10	56	.3	5
23	19	10	35	.5	5
24	26	8	71	.3	5
25	28	22	60	.5	10
26	20	13	46	.2	20
27	19	12	58	.4	5
28	20	6	67	.1	5
29	27	6	56	.2	15
30	16	6	46	.4	5
31	30	19	65	.6	5
32	88	19	105	.7	10
33	24	23	67	.7	120
34	20	11	30	.4	50
35	38	14	40	.3	55
36	30	15	56	.4	5
37	30	6	41	.1	5
STD A-1/AU 0.5	31	39	188	.3	485

Line 7x

Line 15

Line 6

SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB
38	26	11	89	.5	5
39	30	14	74	.7	5
40	40	27	83	.8	5
41	45	18	118	.8	5
42	19	16	58	.9	5
43	17	17	60	.9	5
44	25	13	78	.9	5
45	55	15	127	1.2	5
46	36	15	129	.9	5
47	43	24	88	1.1	5
48	75	12	64	.3	5
49	25	22	51	1.4	5
50	44	16	79	1.1	5
51	20	16	59	.8	5
52	51	15	66	1.0	5
STD A-1/AU 0.5	30	39	186	.3	520

Line 6

ANALYTICAL LABORATORIES LTD.
 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 TEL 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUNE 28 1984

DATE REPORT MAILED: *July 4/84*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER

ERNESCO RES. FILE # 84-1319

PAGE 1

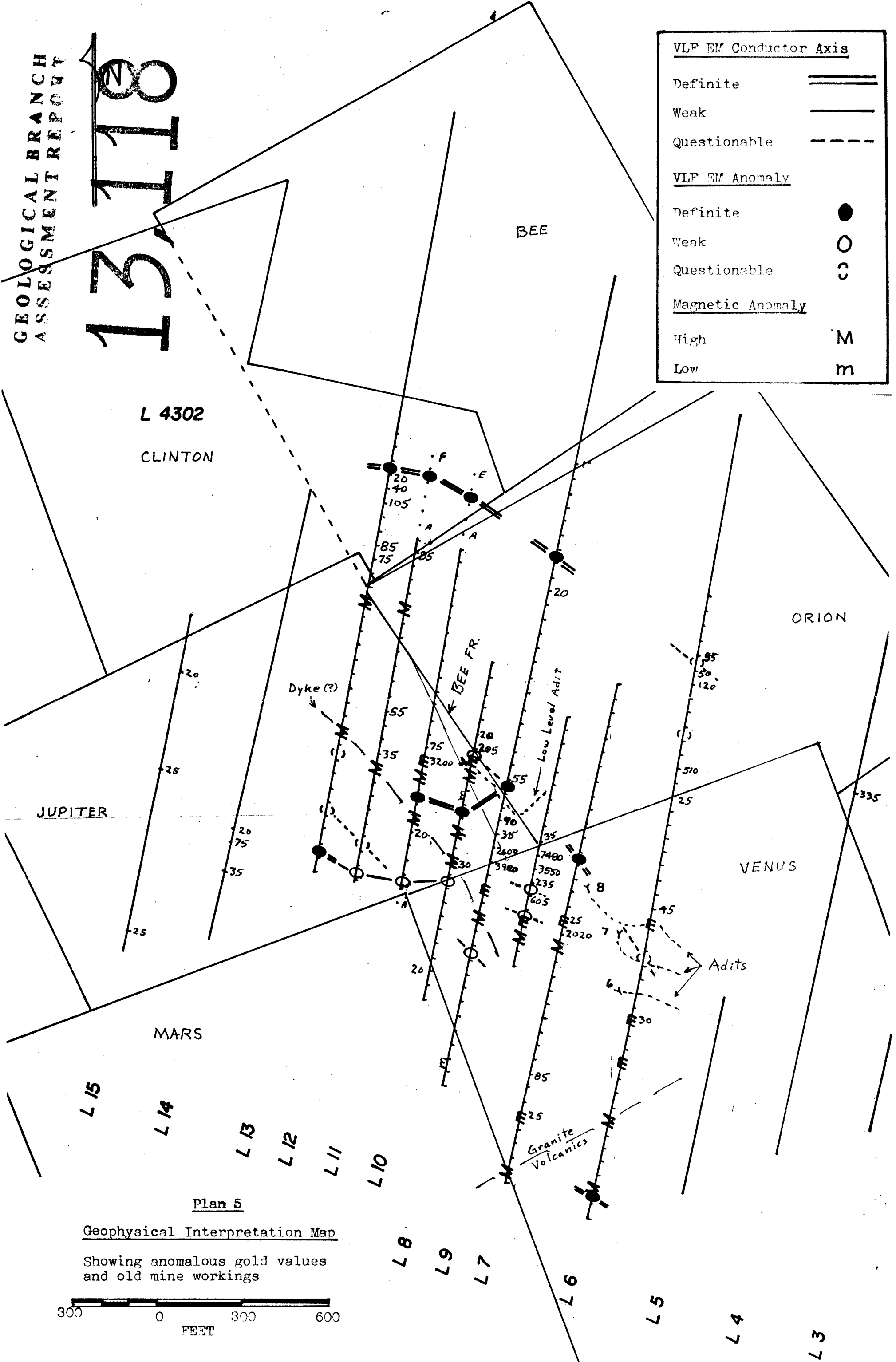
SAMPLE#	CU PPM	PB PPM	ZN PPM	AG PPM	AU* PPB	
1	20	6	64	.8	5	Line 6 x
2	12	16	79	.3	5	
3	10	7	109	.7	5	
4	10	10	100	.7	5	
5	12	8	110	.9	5	
6	9	5	87	.9	5	Line 7
7	13	12	102	1.4	5	
8	29	17	141	.6	5	
9	17	13	84	.3	5	
10	17	11	126	.4	5	
11	32	10	113	.2	5	Line 10
12	23	13	116	.6	5	
13	37	21	136	.5	5	
14	31	21	116	.9	5	
15	15	13	100	.4	25	
16	22	11	79	.4	5	Line 11
17	25	15	95	.3	5	
18	23	14	88	.3	5	
19	22	9	104	.3	5	
20	20	15	88	.1	5	
21	18	10	102	.4	5	Line 11
22	10	5	104	.3	5	
23	12	6	115	.4	5	
24	24	10	179	.6	5	
25	19	10	87	.2	5	
26	23	130	141	.5	20	Line 11
27	58	25	129	.6	15	
28	14	15	87	.4	5	
29	13	15	79	.6	5	
30	98	7781	2943	10.2	3200	
31	27	247	174	.4	75	Line 11
32	15	86	131	.4	20	
33	13	29	90	.4	15	
34	14	38	119	.2	5	
35	33	24	79	.5	5	
36	24	29	95	.3	5	Line 11
37	38	57	93	.6	10	
STD A-1/AU 0.5	29	40	186	.3	515	

SAMPLE#	CU PPM	FE PPM	ZN PPM	AG PPM	AU* PPM
39	22	41	57	.3	5
40	24	18	92	.2	5
41	40	21	79	.7	5
42	19	14	59	.2	5
43	31	16	80	.5	5
44	48	38	72	1.0	5
45	20	15	68	.6	5
46	29	41	112	.2	5
47	32	223	174	.8	85
48	20	52	85	.8	5
49	46	28	62	.6	5
50	85	25	70	1.3	5
51	54	17	177	.9	5
52	15	10	128	.3	5
53	34	15	112	.5	5
54	21	11	139	.3	5
55	19	9	85	.1	5
56	30	31	110	.4	5
57	25	48	96	.3	5
58	20	7	51	.2	55
59	16	46	82	.3	5
60	32	37	133	.4	5
61	20	20	139	.3	35
62	19	9	107	.5	5
63	12	13	76	.2	5
64	17	18	50	.1	5
65	11	9	85	.2	5
66	15	10	127	.5	5
67	24	16	118	.3	5
68	29	9	95	.6	5
69	27	13	136	.3	5
70	18	9	90	.5	5
STD A-1/AU 0.5	30	39	188	.3	490

Line 11

Line 12

VLF EM Conductor Axis	
Definite	====
Weak	=====
Questionable	-----
VLF EM Anomaly	
Definite	●
Weak	○
Questionable	○
Magnetic Anomaly	
High	M
Low	m



L 4302
CLINTON

BEE

ORION

JUPITER

VENUS

MARS

L 15

L 14

L 13

L 12

L 11

L 10

L 8

L 9

L 7

L 6

L 5

L 4

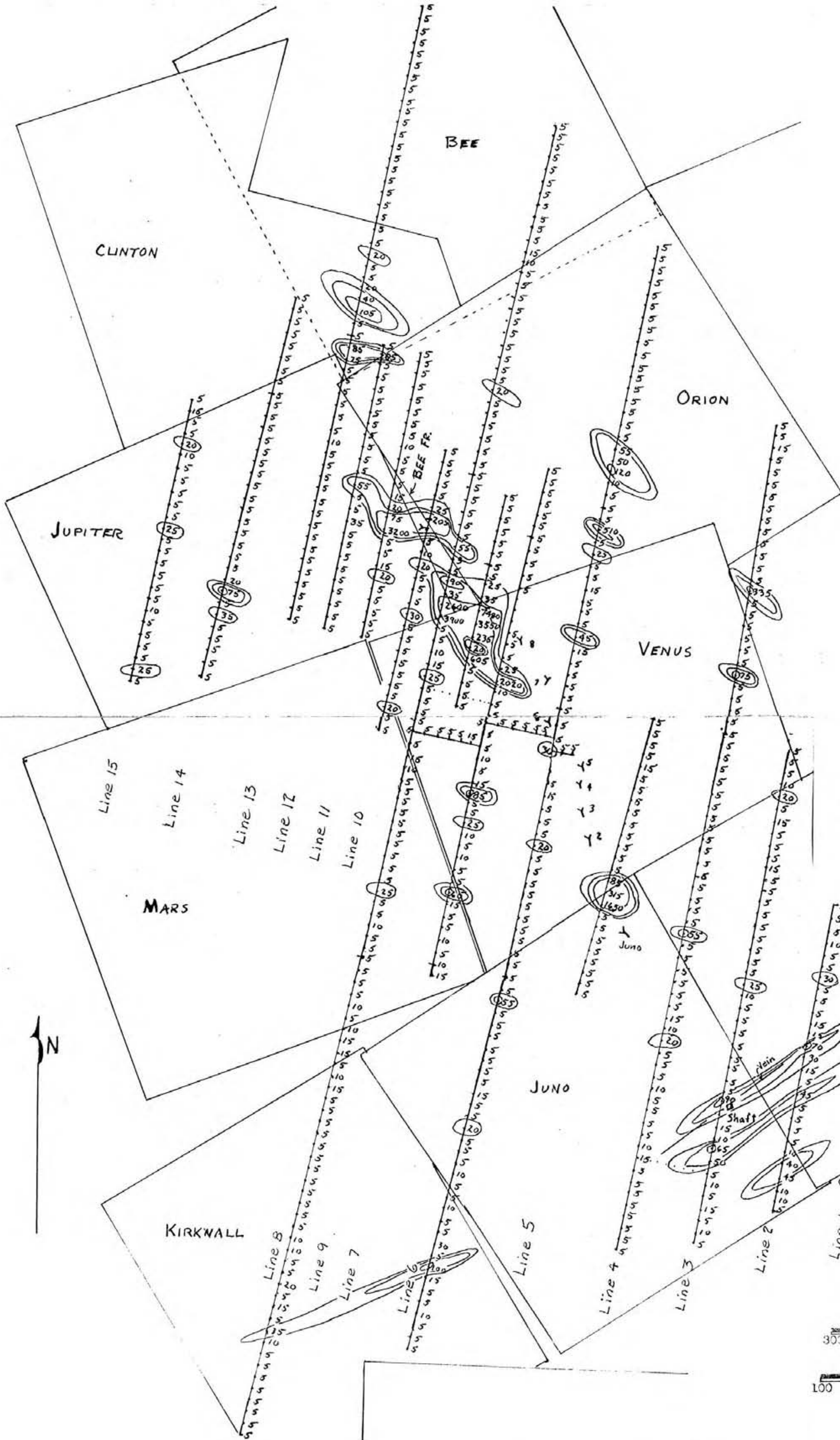
L 3

Plan 5

Geophysical Interpretation Map

Showing anomalous gold values and old mine workings





Gold - p.p.b.

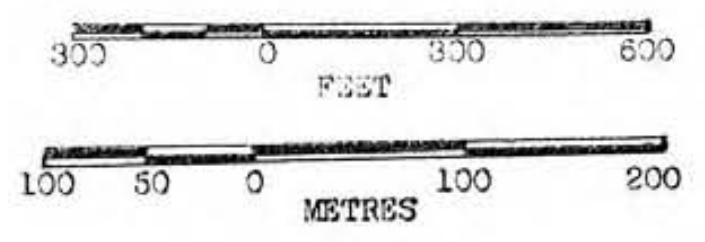
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Weakly anomalous	20 - 35
Moderately anomalous	40 - 60
Strongly anomalous	+ 60

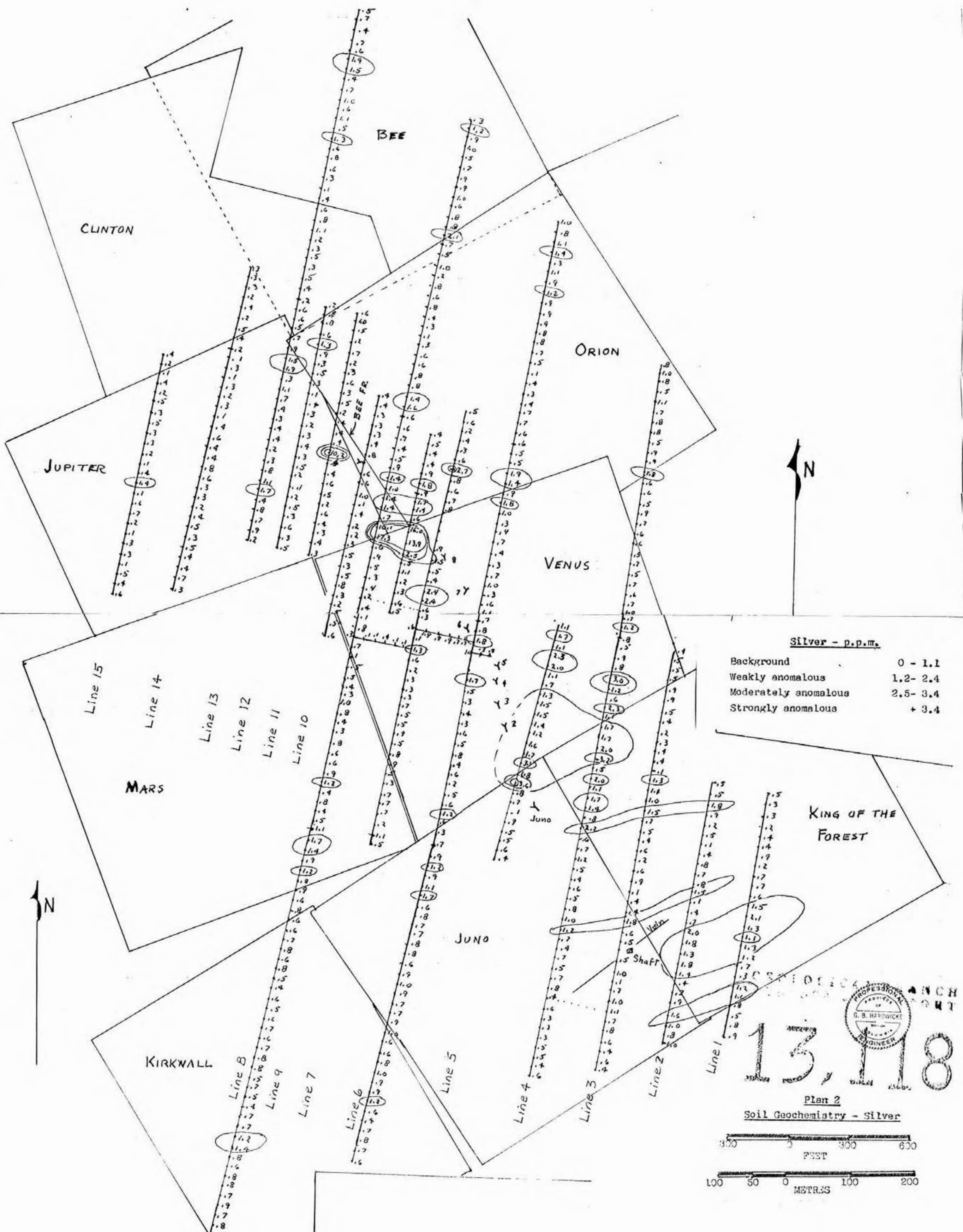
KING OF THE FOREST



13,118

Plan 1
Soil Geochemistry - Gold



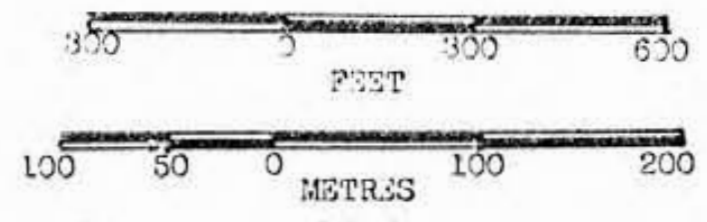


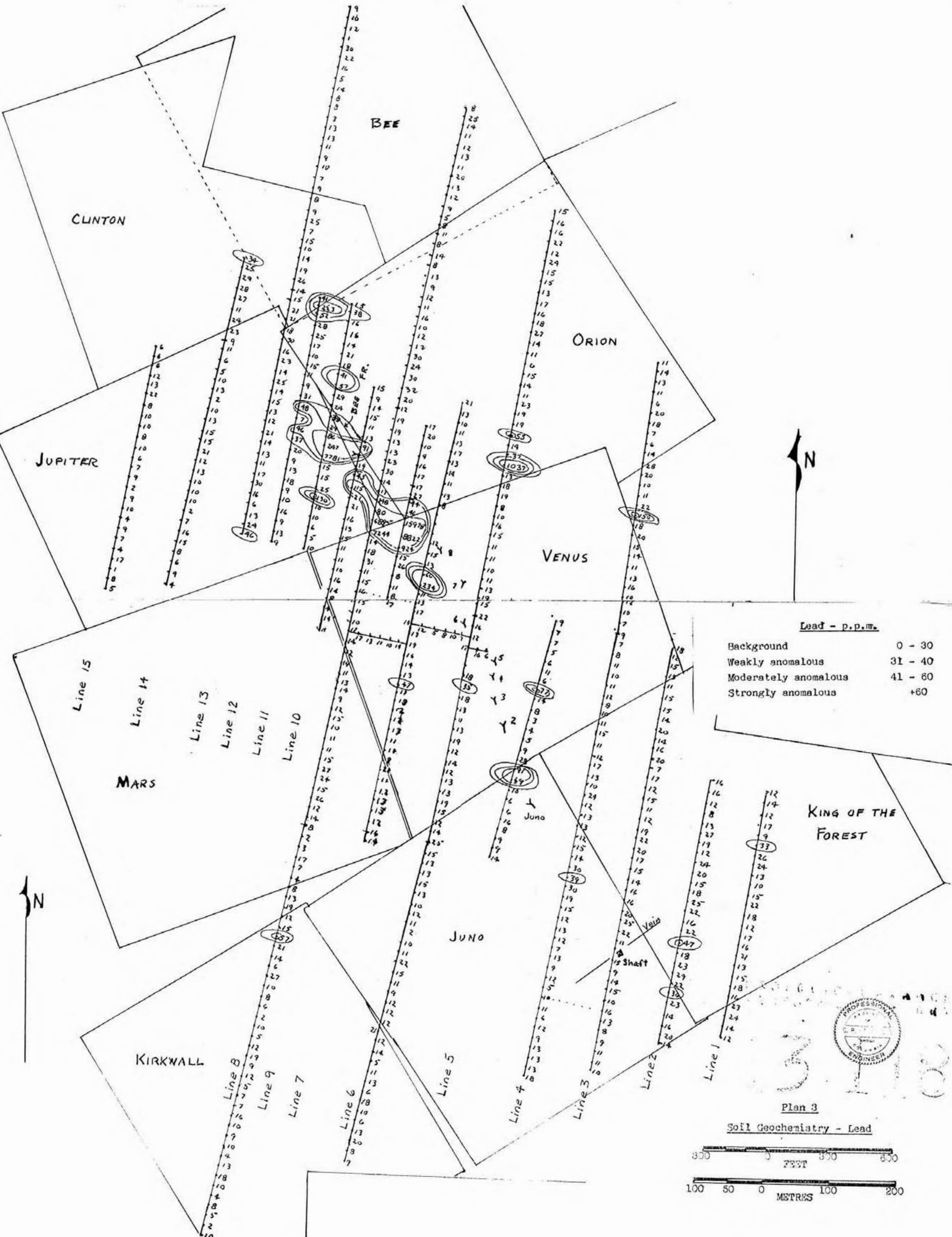
Silver - p.p.m.

Background	0 - 1.1
Weakly anomalous	1.2 - 2.4
Moderately anomalous	2.5 - 3.4
Strongly anomalous	+ 3.4

13, 118

Plan 2
Soil Geochemistry - Silver





CLINTON

BEE

ORION

JUPITER

VENUS

MARS

JUNO

KING OF THE FOREST

KIRKWALL

Line 15

Line 14

Line 13

Line 12

Line 11

Line 10

Line 8

Line 9

Line 7

Line 6

Line 5

Line 4

Line 3

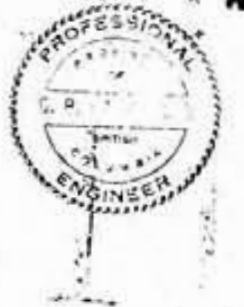
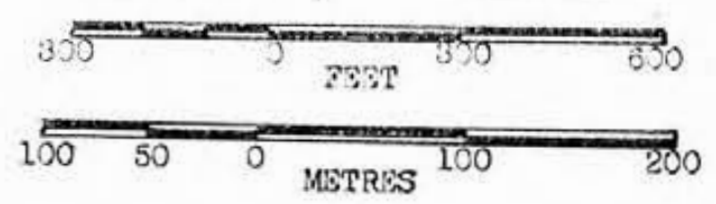
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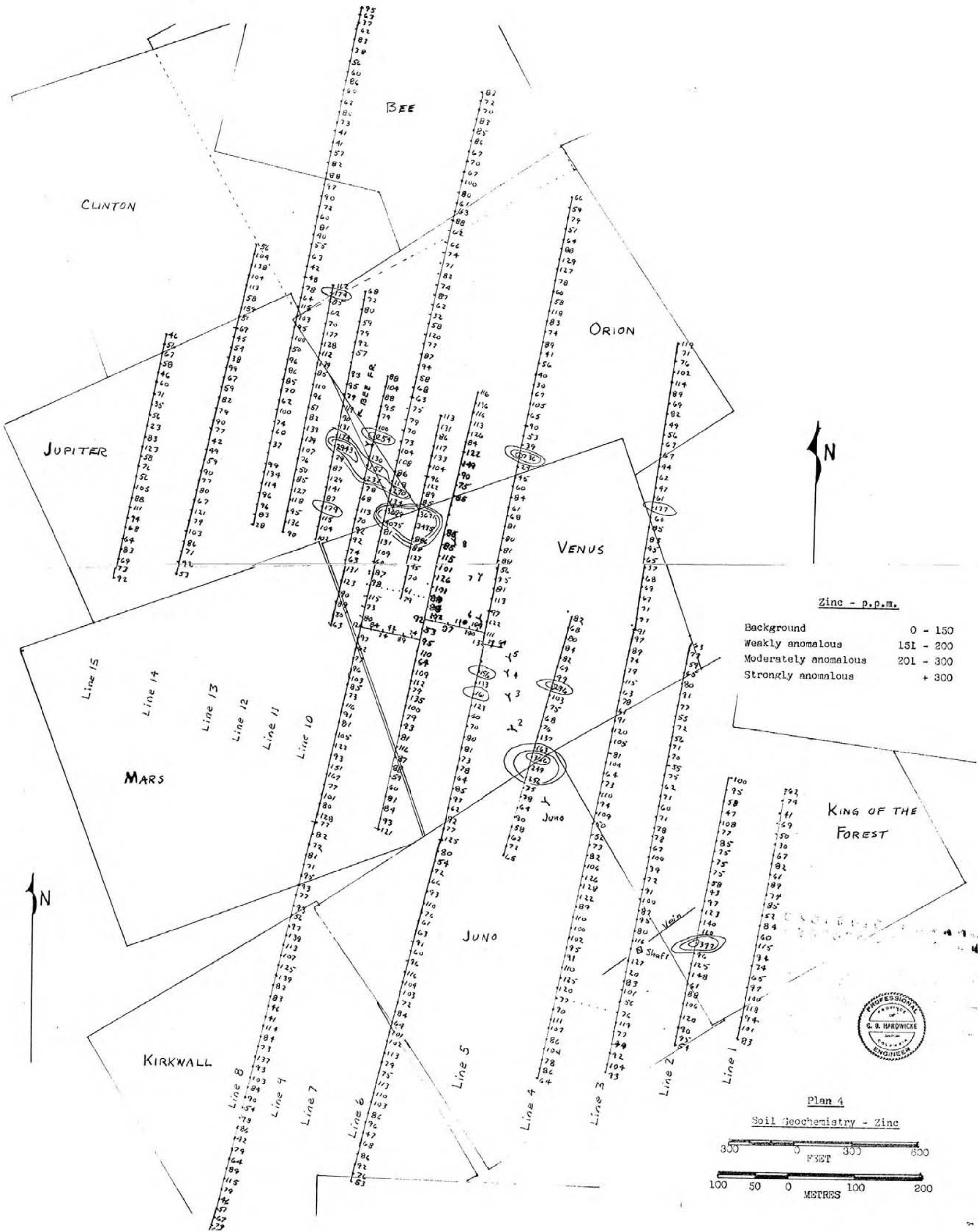
Line 1

Lead - p.p.m.

Background	0 - 30
Weakly anomalous	31 - 40
Moderately anomalous	41 - 60
Strongly anomalous	+60

Plan 3
Soil Geochemistry - Lead





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BEE

ORION

JUPITER

VENUS

MARS

JUNO

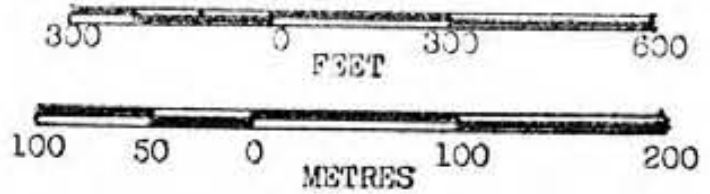
KING OF THE FOREST

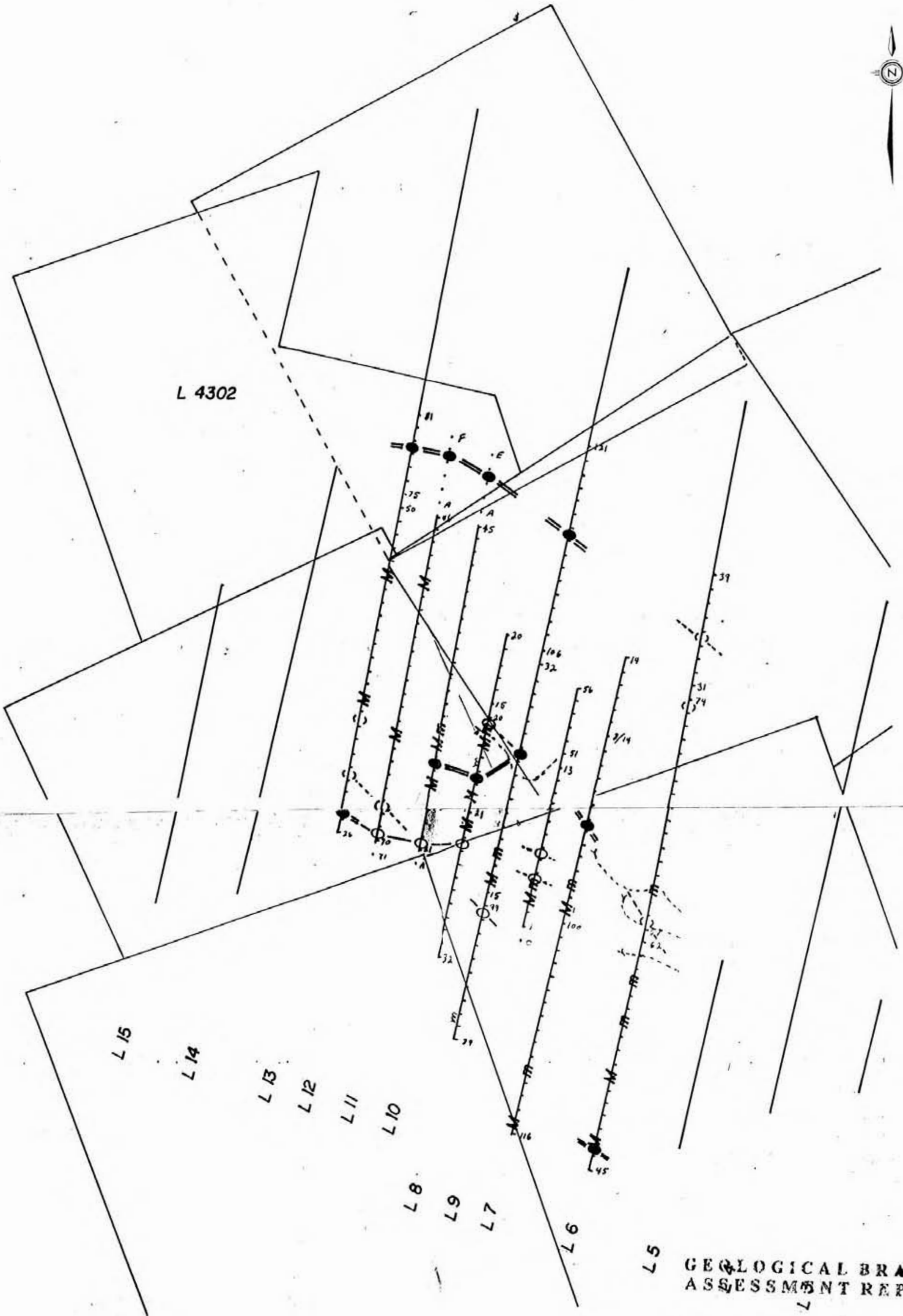
KIRKWALL

Zinc - p.p.m.

Background	0 - 150
Weakly anomalous	151 - 200
Moderately anomalous	201 - 300
Strongly anomalous	+ 300

Plan 4
Soil Geochemistry - Zinc





L 4302

L 15

L 14

L 13

L 12

L 11

L 10

L 8

L 9

L 7

L 6


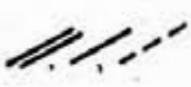
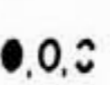

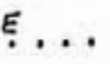
L 5

GEOLOGICAL BRANCH
ASSESSMENT REPORT

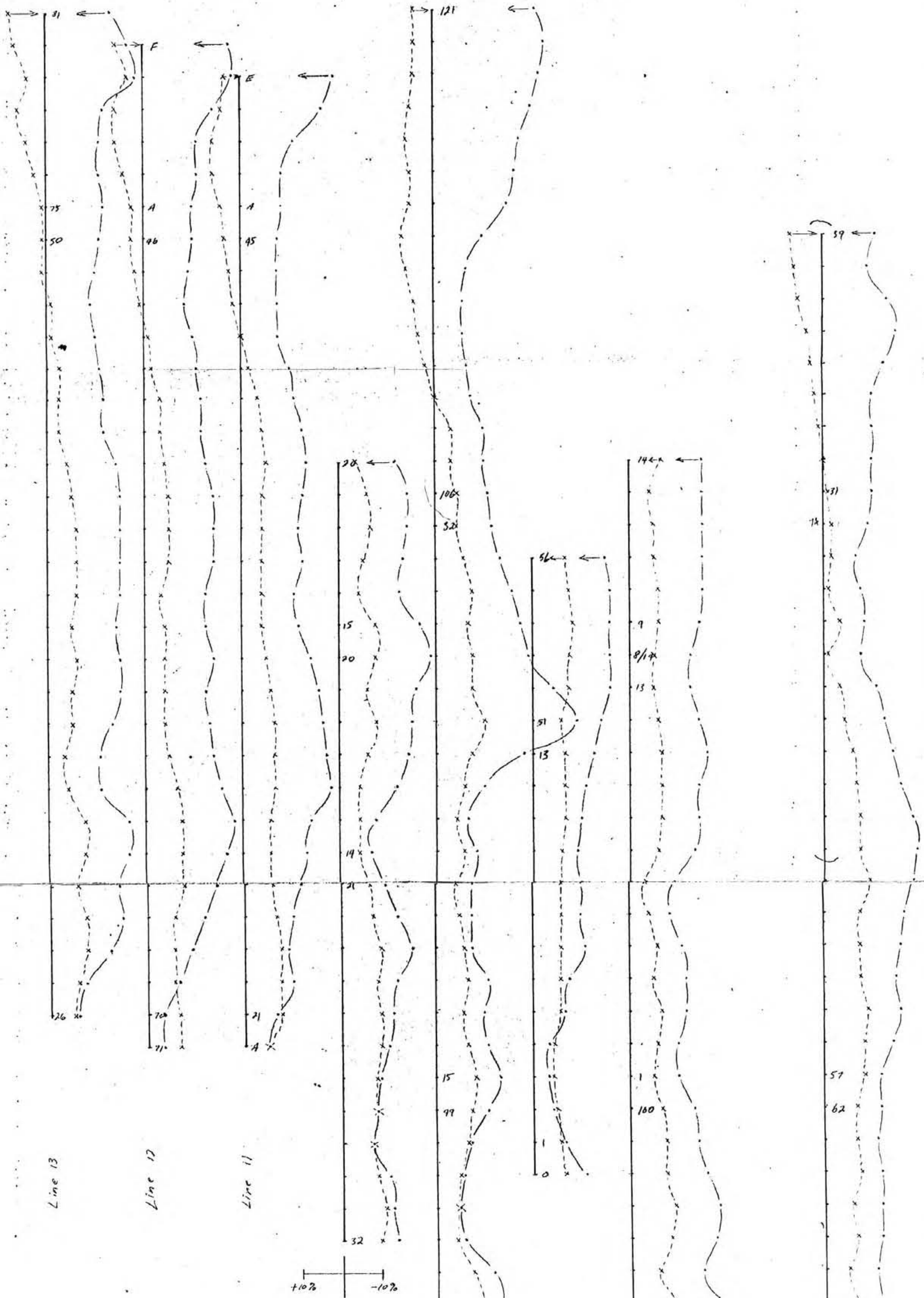
13,118

PRELIMINARY ONLY

LEGEND

-  Claim Boundary
-  VLF EM Conductor Axis (Definite, Weak, Questionable)
-  VLF EM Anomaly (Definite, Weak, Questionable)
-  M.m Magnetic Anomaly (High, Low)
-  E... Station Locations Paced (no flags)

ERNESCO RESOURCES LTD.	
VENUS AREA NELSON, BRITISH COLUMBIA GEOPHYSICAL INTERPRETATION MAP	
TO ACCOMPANY REPORT BY ER ROQUEL	
IR INTERPRETEX RESOURCES LTD.	SCALE 1"=300' DATE: 1988 PROJECT 84615 FIGURE NO.: 2 NLS 82F/6 DRAWN BY



PRELIMINARY ONLY

ERNESCO RESOURCES LTD.	
Venus Area Nelson, B.C.	
ULF EM Profile Map (EM-16 In-Phase and Out-of-Phase)	
TO ACCOMPANY REPORT BY: E. R. ROCKEL	
IR INTERPRETEX RESOURCES LTD.	SCALE: 1" = 100'
	DATE: Aug 23/84
	PROJECT NO. 84615 FIGURE NO. 3
	N.T.S. 82 F/6 DRAWN BY:

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,118

LEGEND

- | 56 Station Number
- In-Phase Profile
- x---x Out-of-Phase Profile
- Plotting Scale: 1" = 16%
- Transmitter: Annapolis (Cutler)
- Direction Faced: Northerly

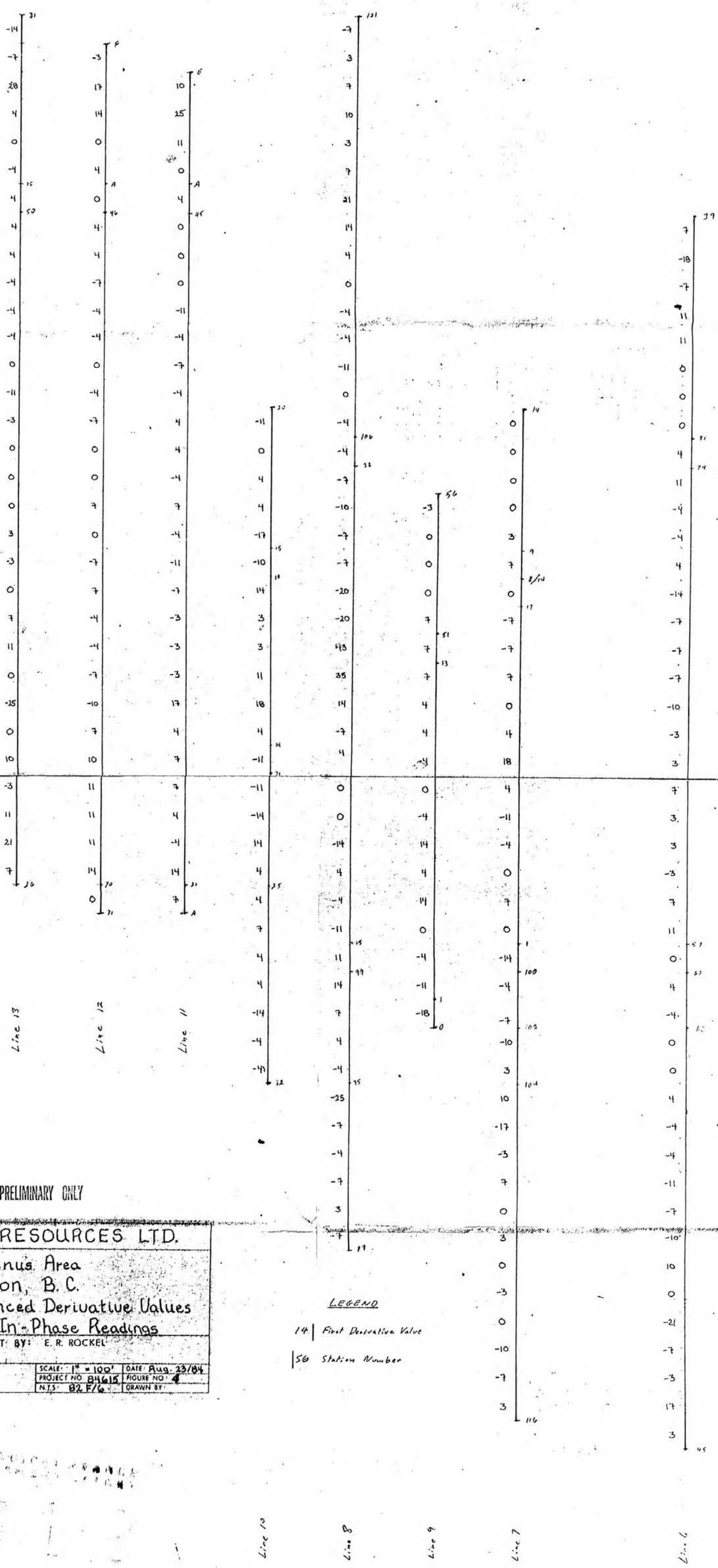
Line 10

Line 8

Line 9

Line 7

Line 6



PRELIMINARY ONLY

ERNESCO RESOURCES LTD.

Venus Area
 Nelson, B. C.
 ULF EM Enhanced Derivative Values
 of EM-16 In-Phase Readings
 TO ACCOMPANY REPORT BY: E. R. ROCKEL

IR INTERPRETEX
 RESOURCES LTD

SCALE: 1" = 100'	DATE: Aug. 23/84
PROJECT NO: B4615	FIGURE NO: 4
N.T.S. B2 F/6	DRAWN BY:

LEGEND

14 | First Derivative Value
 56 | Station Number

Line 10

Line 8

Line 9

Line 7

Line 6

492	436	454	477		
480	440		452		
460	423		451		
439	424		444		
453	403		440		
423	413		436		
435	415		437		
429	408		417		
422	407		413		
419	381		402		
405	422		406		
399	399		408		
401	381		420		
397	383		400		
389	376		400		
374	365		391		
360	384		393		
343	376		391		
348	361		375		
387	345		369		
	348		372		
	348		361		
	348		342		
	348		333		
	348		326		
	348		315		
	348		344		
	348		352		
	348		342		
	348		360		
	348		345		
	348		348		
	348		382		

325	344	368	345	315	350	338	339
407	387	361	363	324	329	334	333
334	410	319	365	321	317	318	324
317	442	422	351	303	316	306	294
323	438	413	329	315	308	291	279
318	351	384	335	297	292	290	258
325	325	421	362	289	282	301	246
324	325	353	338	290	279	276	232
319	327	360	363	273	285	255	214
314	309	331	308	263	286	241	169
308	305	311	305	247	230	212	080
299	294	295	302	285	215	151	172
	295	284	278	322	189	168	111
			270	270	211	183	075
			246	243	188	161	087
			228	240	179	167	044
			200	225	141	167	001
			196	212		157	-033
			178	192		120	020
				149		089	010
				139		084	-140
				104		070	076
				071		-039	088
				064		-087	194
				089		-080	540
						-446	514
						-120	377
						100	366
						105	431
						420	495
						243	385
							369



Line 13
Line 12
Line 11

PRELIMINARY ONLY

ERNESCO RESOURCES LTD.

Venus Area
Nelson B.C.
Total Field Magnetic Values
(57,000 Gammas Subtracted)

TO ACCOMPANY REPORT BY: E. R. ROCKEL

IR INTERPRETEX RESOURCES LTD.	SCALE: 1" = 100'	DATE Aug. 23/84
	PROJECT NO. 84615	FIGURE NO. 6
	N.T.S. B2 F/6	DRAWN BY:

LEGEND

278 Total Field Magnetic Value
(57,000 gammas subtracted)

56 Station Number

GEOLOGICAL BRANCH
ASSESSMENT REPORT

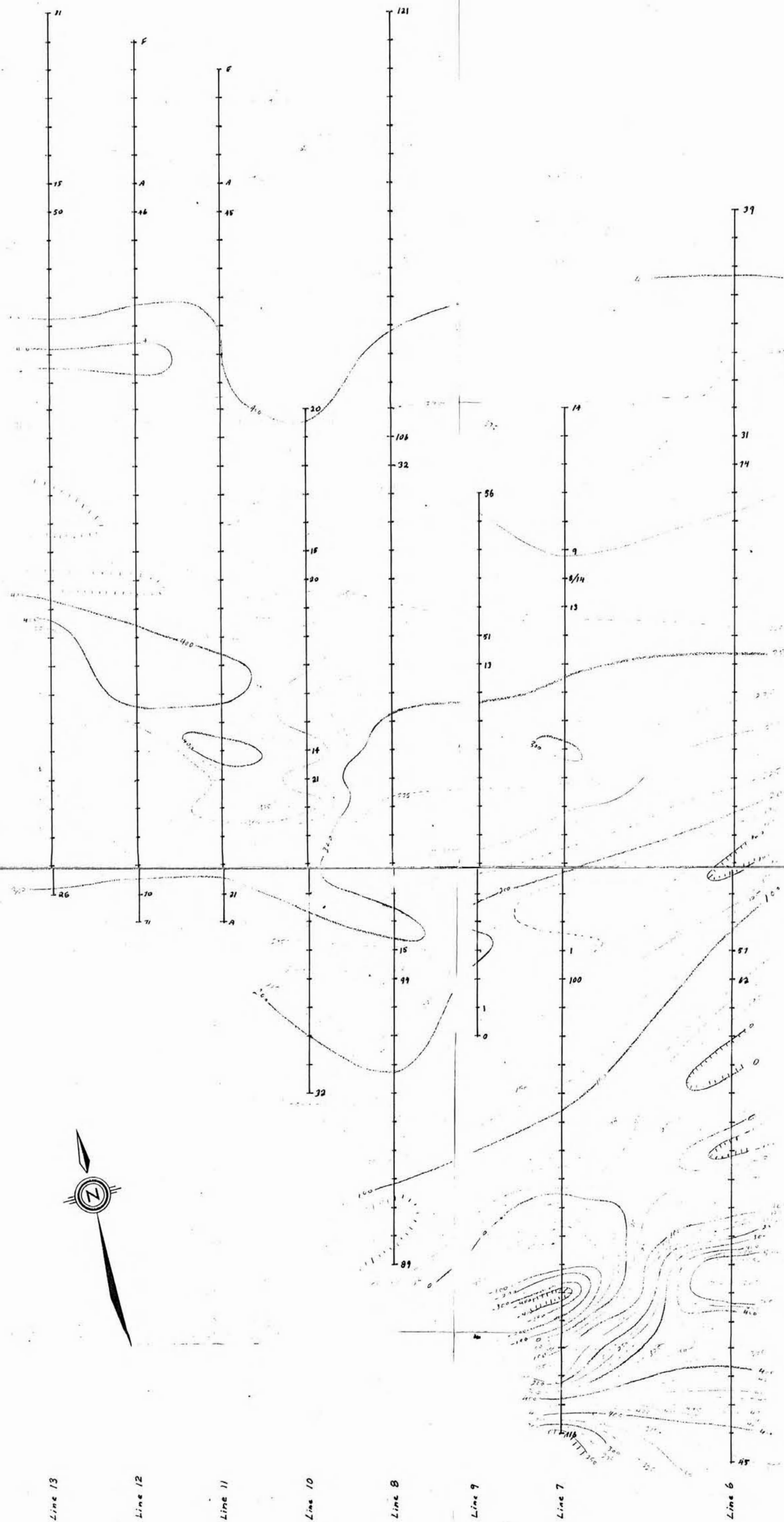
13,118

Line 10

Line 7

Line 7

Line 6



LEGEND

- 100 Gamma Contours
- - - 50 Gamma Contours
- - - 25 Gamma Contours
- 56 Station Number
- Magnetic Low

13418

ERNESCO RESOURCES LTD.		
VENUS AREA NELSON, BRITISH COLUMBIA		
TOTAL FIELD MAGNETIC CONTOURS (57,000 GAMMAS SUBTRACTED)		
TO ACCOMPANY REPORT BY: E. R. ROCKEL		
IR INTERPRETEX RESOURCES LTD.	SCALE: 1" = 100'	DATE: Aug. 23/84
	PROJECT NO: 84615	FIGURE NO: 7
	N.T.S.: 82F/6	DRAWN BY: