82 - 537 - 10606

# GEOCHEMICAL REPORT

ON

CHUM 1-10 CLAIMS
SUSTUT RIVER AREA, B.C.

56°30'126°45' - 94D7E

BY

J.W. MACLEOD, P.Eng.

FOR

JEMO RESOURCES INC.

VANCOUVER, B.C.
10 August 1982

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ILLUSTRATIONS

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REPORT

ON

CHUM CLAIMS
SUSTUT RIVER AREA

## INTRODUCTION

The following report has been prepared to fulfill the requirements of the regulations governing the filing of a geochemical survey for assessment credit.

During the summer of 1973 the writer of this report directed an exploration program on a large block of ground held at that time by McIntyre Porcupine Mines Ltd. The area in the vicinity of a high zinc soil on Line CL4 was examined at that time but McIntyre was not interested in exploring for zinc then.

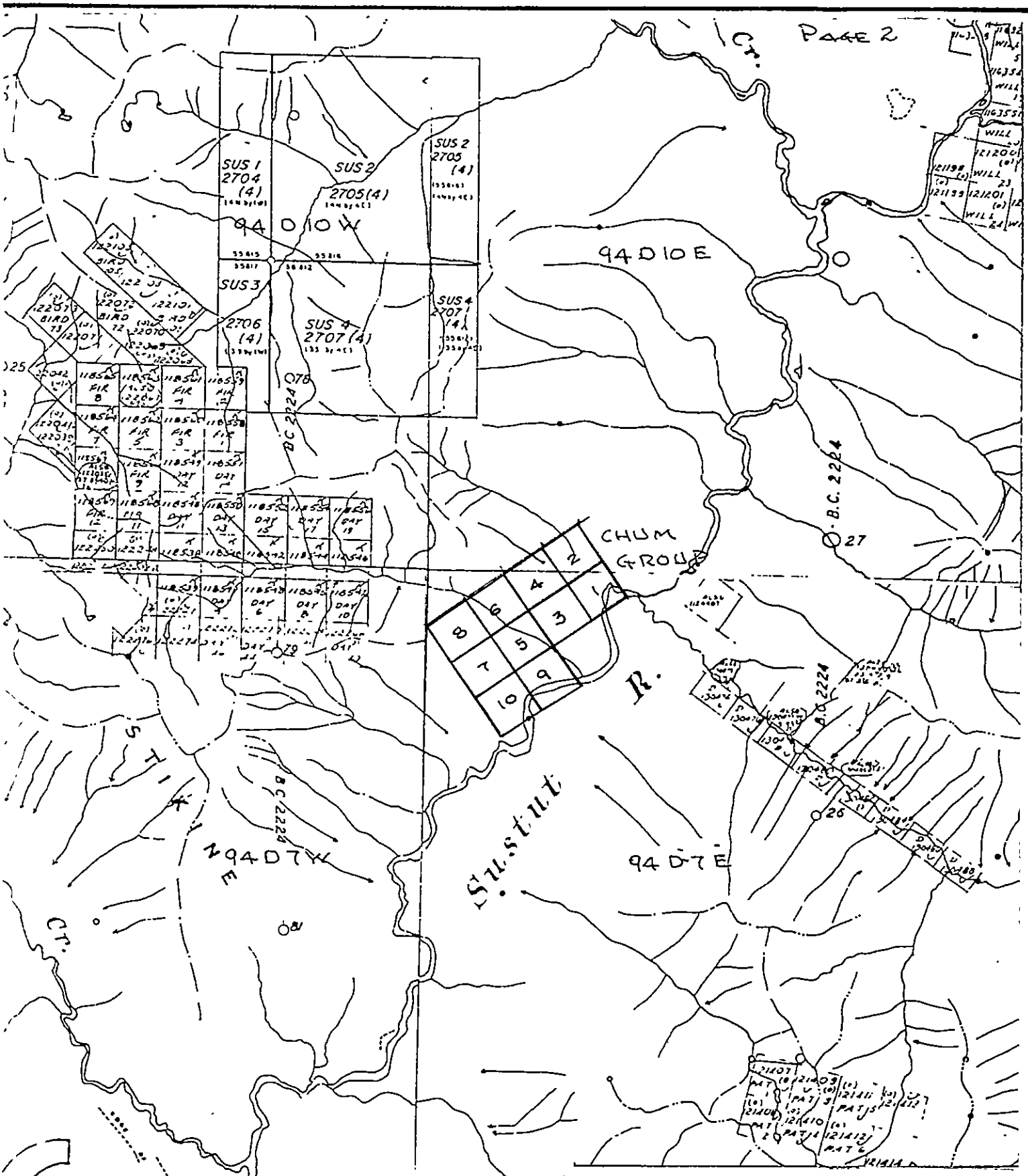
## SUMMARY AND CONCLUSIONS

Chum claims 1-10 were staked on August 9 and 10, 1981 to follow-up anomalous zinc values obtained by a reconnaissance soil survey in 1973.

In a preliminary survey, 111 soil samples were collected and analysed for silver, copper, lead and zinc.

This survey confirmed the 1973 zinc values and suggests the presence of a mineralized zone 300 metres long and open.

An expanded and more detailed survey is recommended to determine the lateral extent of the anomaly.



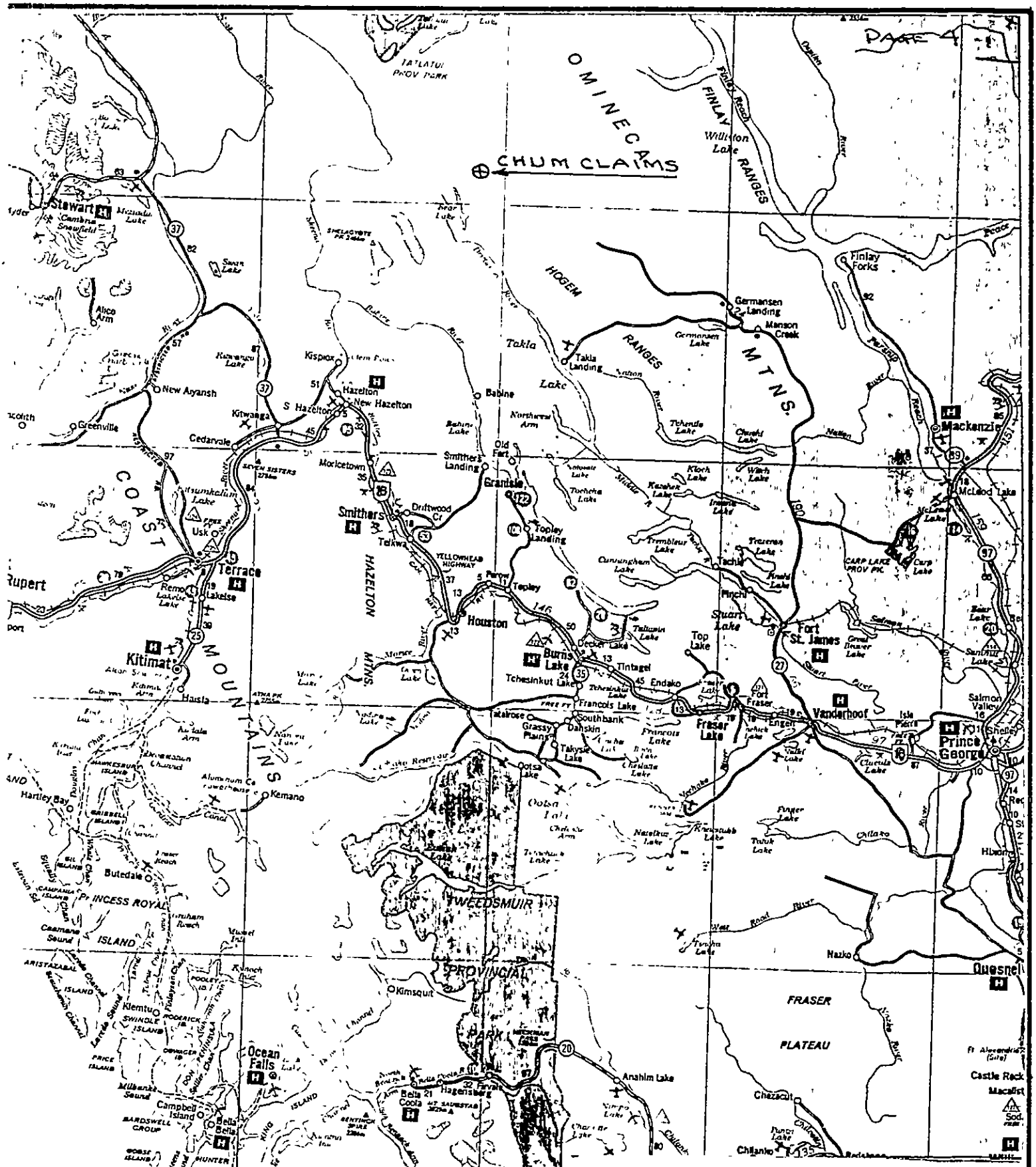

| MERV ENGINEERING CORP. | |
|---|---|
| CHUM GROUP<br>PLAN OF CLAIMS | |
| DRAWN BY: J.W.M | SCALE: 1:50,000 |
| DATE: Aug 19 1982 | N.T.S. : 94 D 7 E |

PROPERTY

The Chum group consists of the following 10 two-post claims:

| CLAIM | TAG NO. | RECORD NO. | ANN. DATE |
|---|---|---|---|
| Chum 1 | 476191M | 4176 | August 14 |
| Chum 2 | 476192M | 4177 | August 14 |
| Chum 3 | 476193M | 4178 | August 14 |
| Chum 4 | 476194M | 4179 | August 14 |
| Chum 5 | 476195M | 4180 | August 14 |
| Chum 6 | 476196M | 4181 | August 14 |
| Chum 7 | 476197M | 4182 | August 14 |
| Chum 8 | 476198M | 4183 | August 14 |
| Chum 9 | 476199M | 4184 | August 14 |
| Chum 10 | 476200M | 4185 | August 14 |

These claims were staked by A.E. and C.E. Angus on August 9 and 10, 1981.




| MERV ENGINEERING CORP. | |
|---|---|
| LOCATION OF CHUM CLAIMS | |
| DRAWN BY: J.W.M. | SCALE: 1:250,000 |
| DATE: Aug 10, 1982 | N.T.S. : 94 D TE |

## LOCATION AND ACCESS

The Chum Group is located 192 km north of the town of Smithers, on the west bank of the Sustut River.

The closest road is the northern end of the Omineca Mining access road 24 km to the northeast at Moosevale Creek. The British Columbia Railway right-of-way passes Bear Lake 34 km to the southwest.

Helicopters can land on bars on the Sustut River close to the claims or in small meadow just northeast of the claims.

## GENERAL

Most recent activity in this area was in 1972-73, generated by the stratabound copper discovery by Falconbridge 12 km to the northeast of the Chum claims. Falconbridge also worked on a copper occurrence in quartz-diorite 3 km to the northwest. There is no known zinc mineralization in the vicinity of the claims.

The claims cover the moderate slope of the Sustat River Valley between 900 and 1200 metres elevation where the valley is fairly heavily timbered. Outcrop is sparse in the river banks and creeks until an elevation of 1500 metres is reached.

1:50,000 topo maps are not available for this area.


**MERV ENGINEERING CORP.**

TOPOGRAPHY

CHUM CHAIM AREA

| | |
|---|---|
| DRAWN BY: J.W.M | SCALE: 1:250,000 |
| DATE: Aug. 10, 1982 | N.T.S. : 94 D/E |

GEOLOGY

This area has been mapped in detail by Dr. Neil Church of the B.C. Department of Mines.

The Sustut River Valley is usually indicated as the location of a major northeast-trending fault with Jurassic Hazelton volcanics on the northwest and Triassic Takla Group sediments on the southeast side.

The only outcrop noted on the group, other than the river bottom, was some argillaceous sediments trending northwest and dipping to the north on the north side of the creek draining the Falconbridge Day Zone. This outcrop suggests that the area in the vicinity of the zinc anomaly may be underlain by sediments and the possible existence of stratabound mineralization. If this were true the postulated fault would have to be located some distance to the west of the Sustut River.

GEOCHEMICAL SURVEY

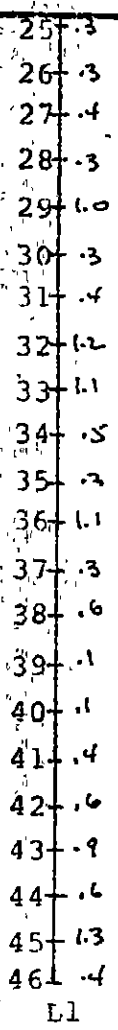
On August 10 and 11, 1981, A.E. Angus and C.E. Angus collected 111 soil samples from four lines with 30 metre sample spacing.

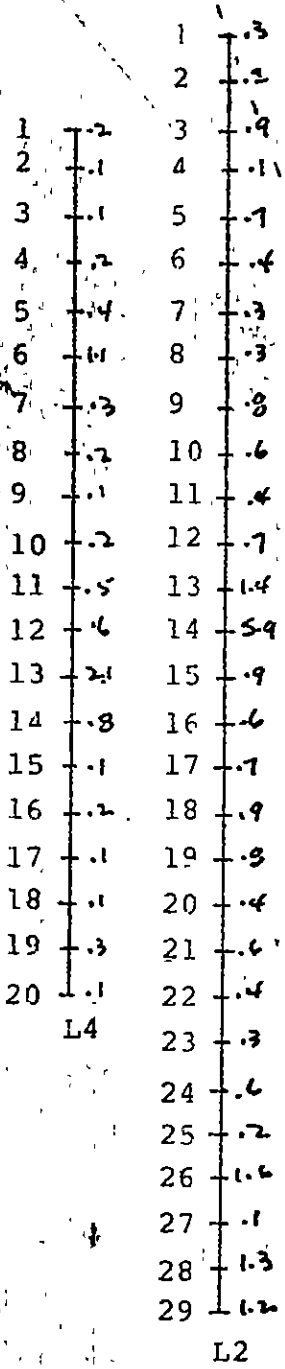
The object of the sampling was to confirm and establish a trend to the anomalous zinc values obtained by the McIntyre survey in 1973.

Samples were taken from the "B" horizon. Since no outcrop was noted on any of the lines, the depth of overburden is unknown.


FROM 1973 McINTYRE MAP.

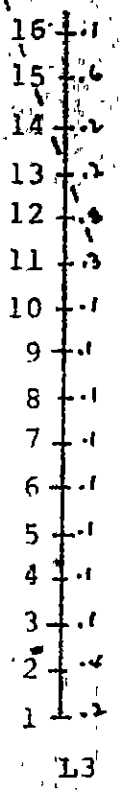
| MERV ENGINEERING CORP. | |
|---|---|
| CHUM CLAIMS<br>LOCATION OF SOIL LINE | |
| DRAWN BY: JWM | SCALE: 1" = 1000' |
| DATE: Aug. 10, 1982 | N.T.S. : 94D-7E |

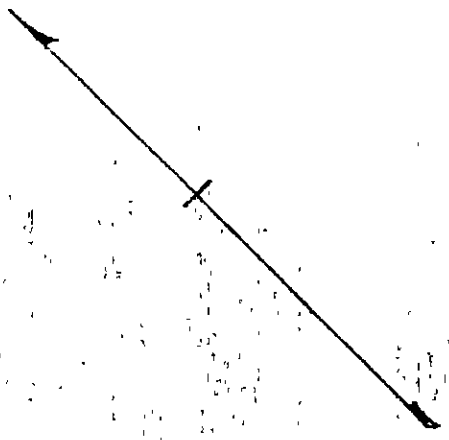


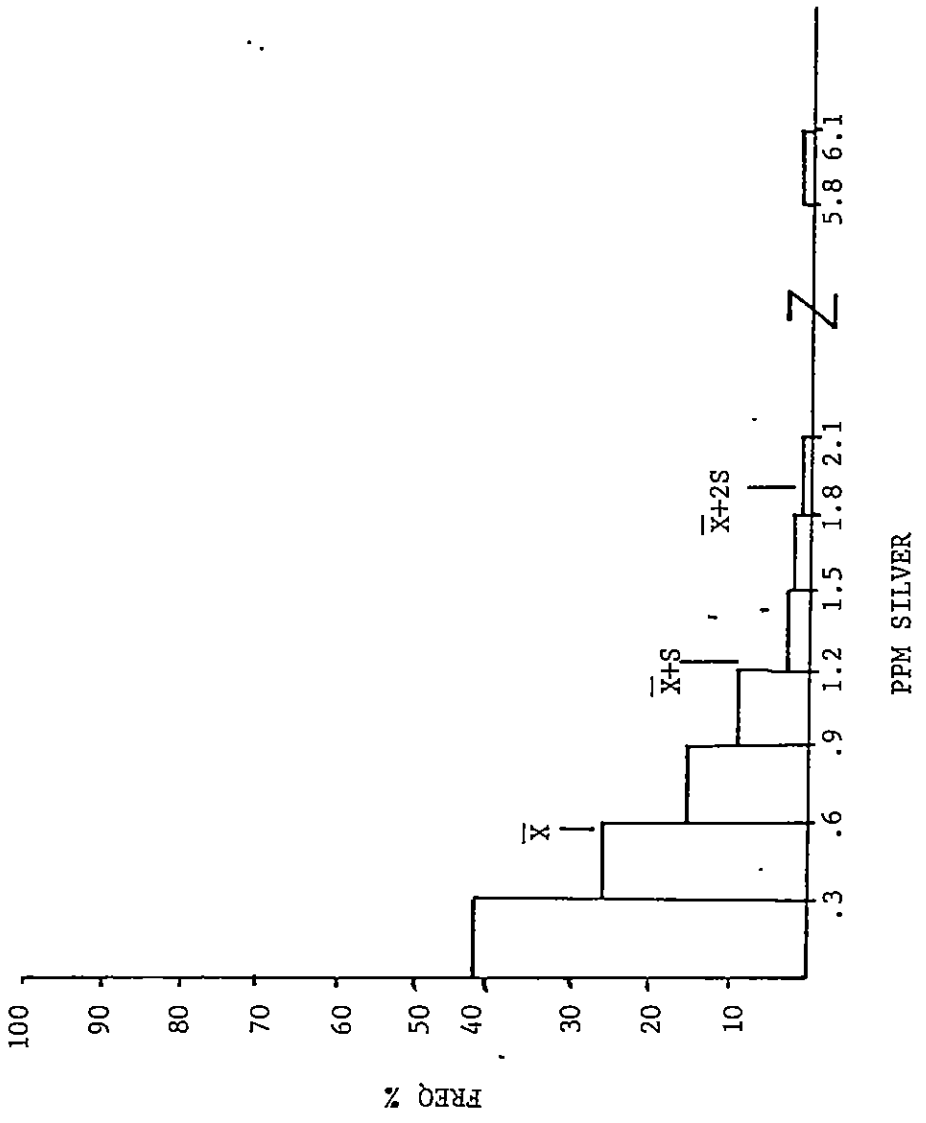






| MERV ENGINEERING CORP. | |
|---|---|
| SILVER IN SOILS | |
| DRAWN BY: JVM | SCALE 1:5000 |
| DATE: Aug 10/82 | N.T.S : 94 D 7 |

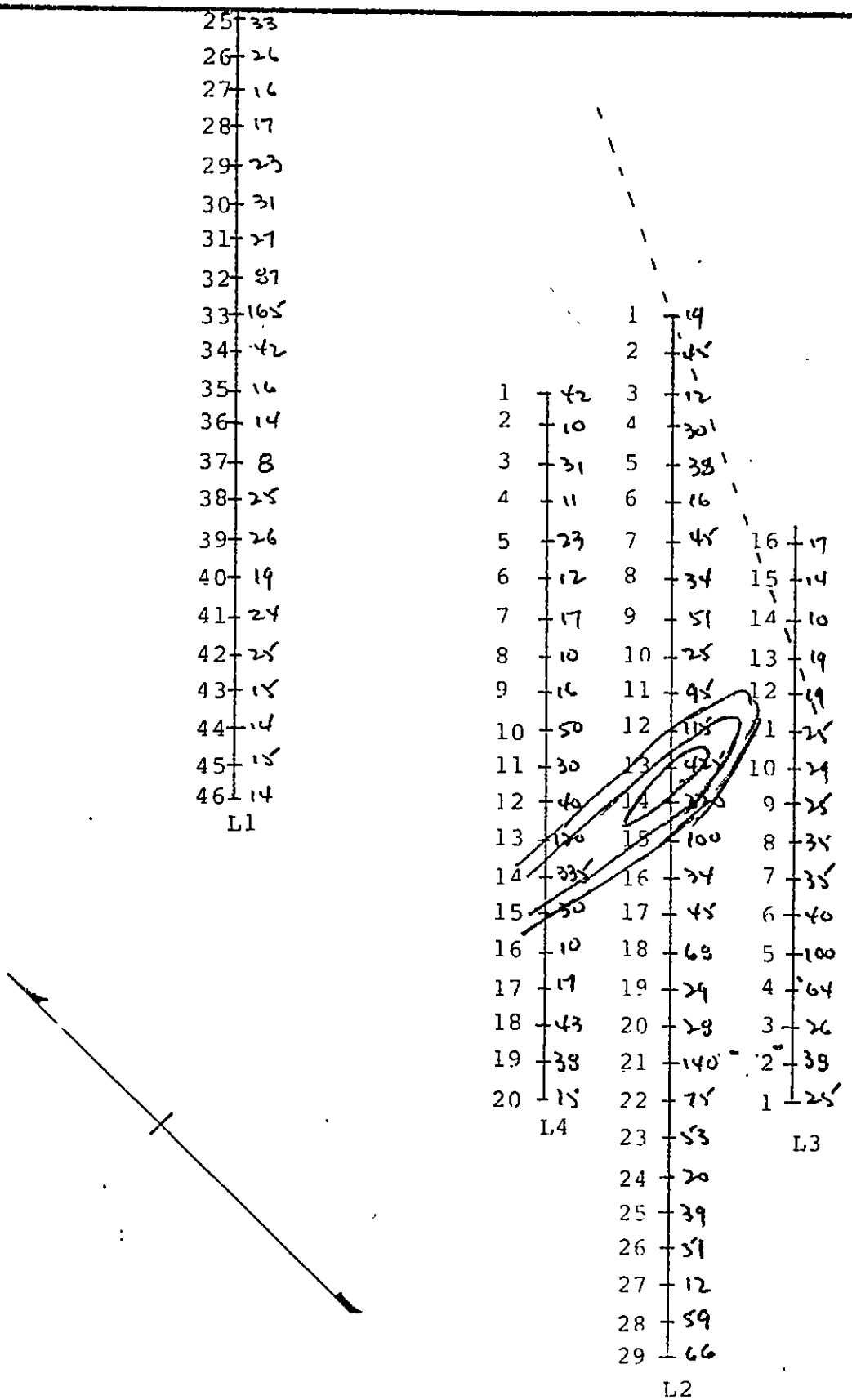

FREQ %
100
90
80
70
60
50
40
30
20
10
.3
.6
.9
1.2
1.5
1.8
2.1
5.8
6.1
$\bar{X}$
$\bar{X}$+S
$\bar{X}$+2S
PPM SILVER

SILVER IN SOILS

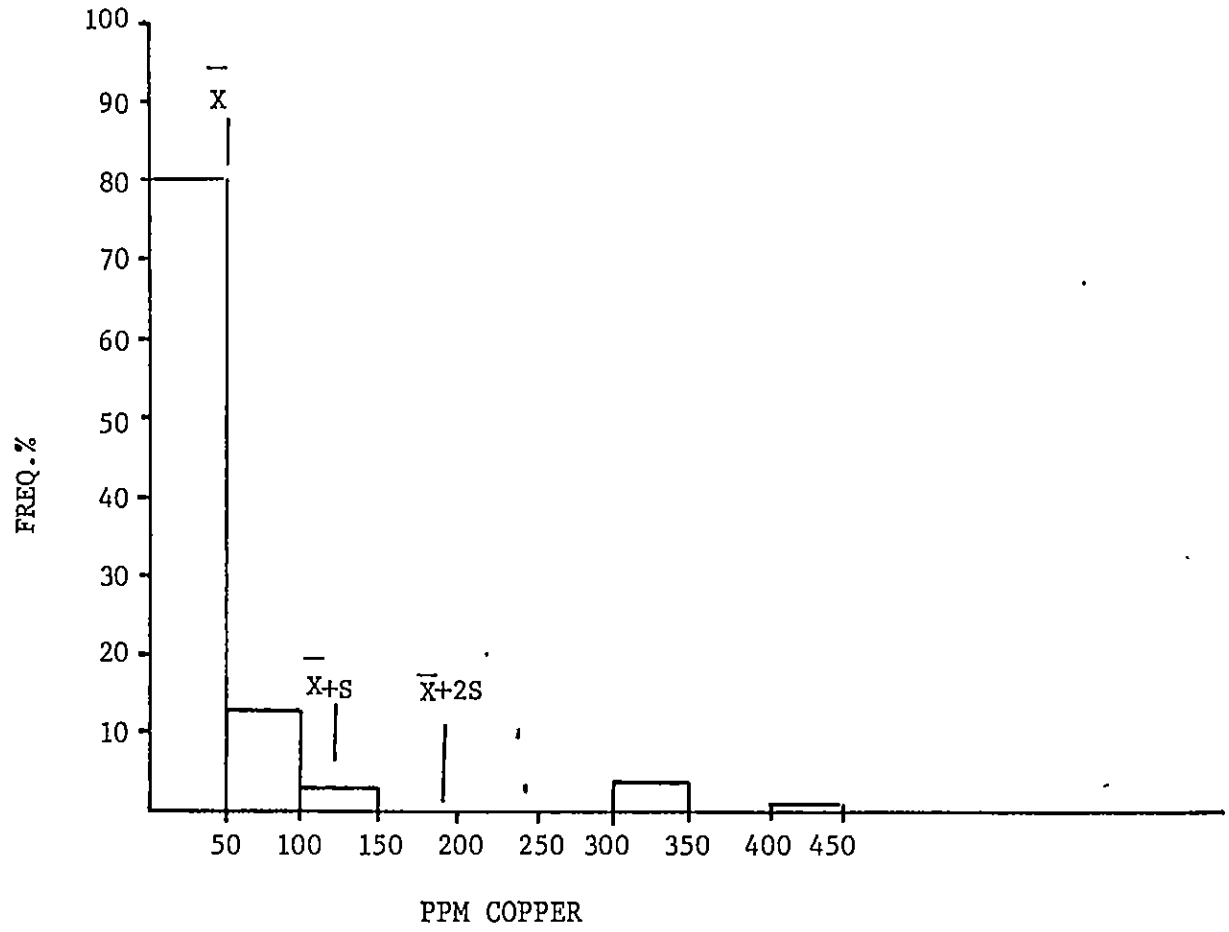
Silver values range from 0.3 p.p.m. to 5.9 p.p.m. The 5.9 figure is an isolated sample and does not suggest the presence of the metal in significant quantity.

COPPER IN SOILS

Copper values are generally below 50 p.p.m. with a high of 425. The statistically anomalous values on Lines 2 and 4 conformable to the trend of the zinc anomaly could represent low values of this metal in a mineral zone.

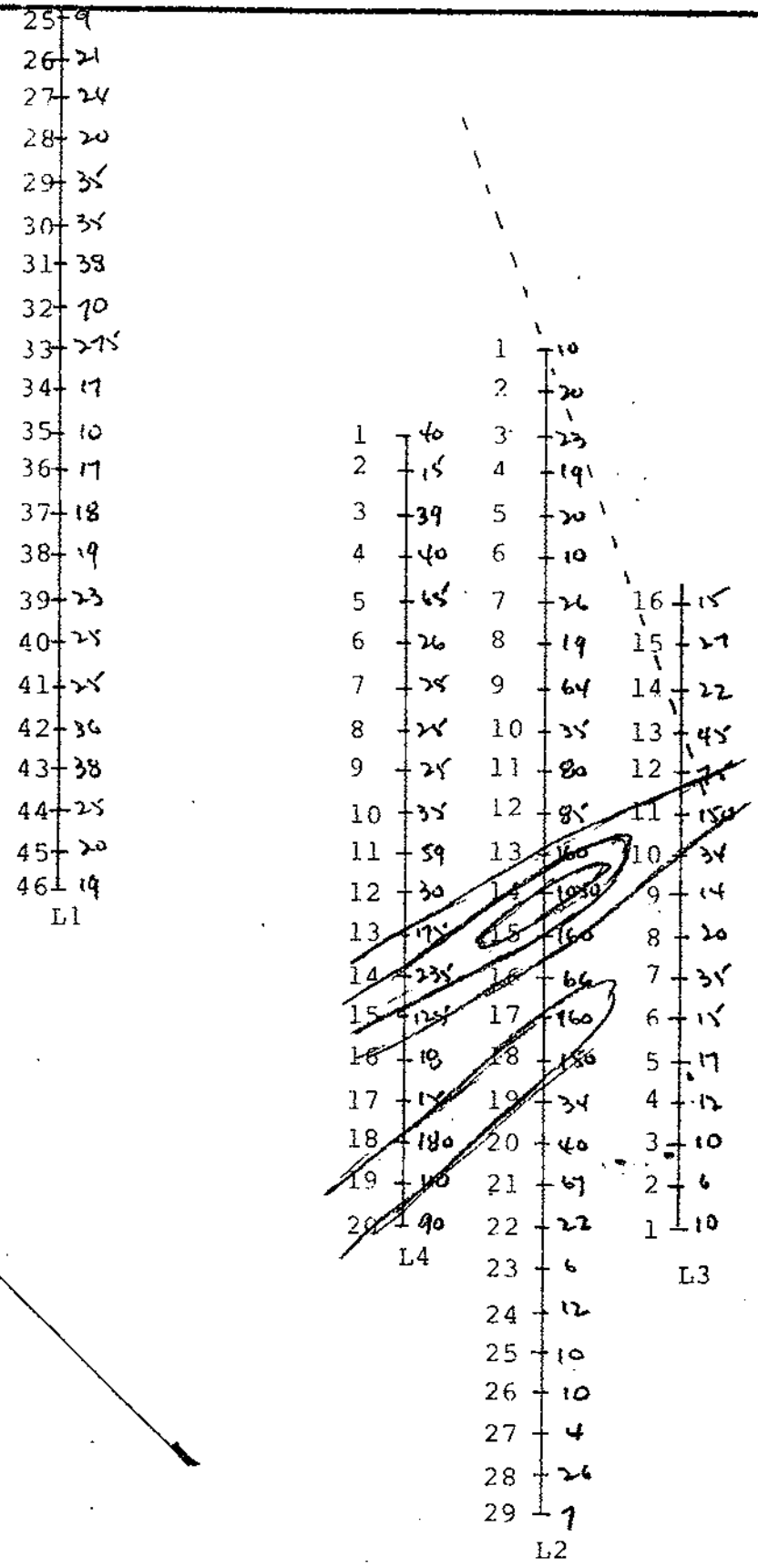



| MERV ENGINEERING CORP. | |
|---|---|
| CHUM CHAIMS. COPPER IN SOILS. | |
| DRAWN BY: JWM | SCALE 1:5000 |
| DATE: Aug 10/82 | N.T.S. : 94 D 7 |

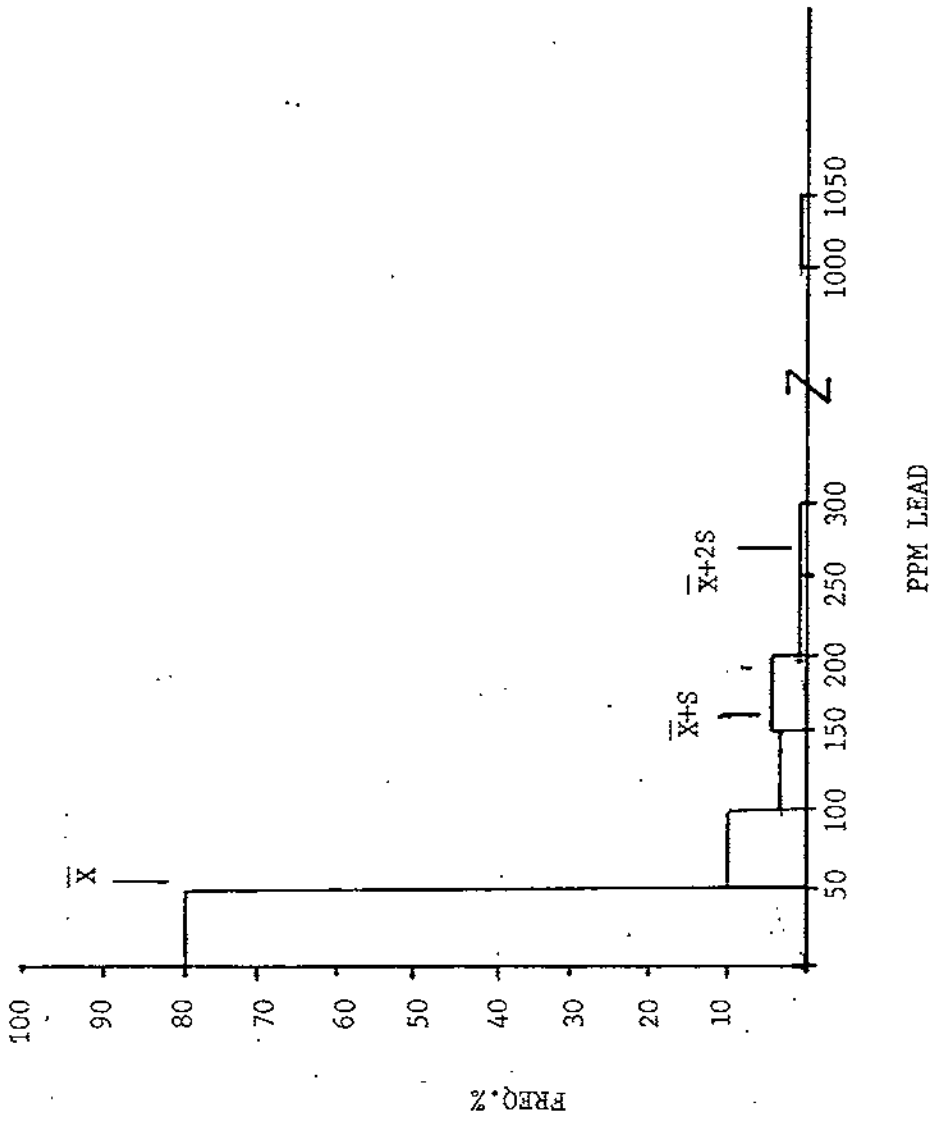

100
90
80
70
60
50
40
30
20
10
FREQ.%
X
X+S
X+2S
50
100
150
200
250
300
350
400
450
PPM COPPER

LEAD IN SOILS

Although the histogram of the lead values suggests only a couple of anomalous values, there is a general high tenor associated with the zinc anomaly.

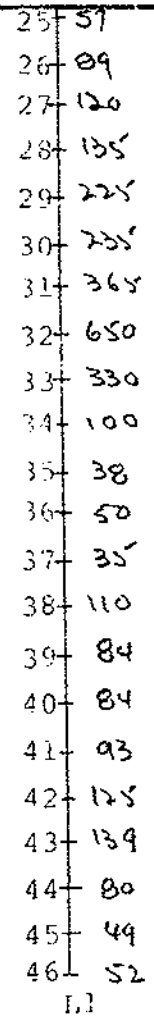


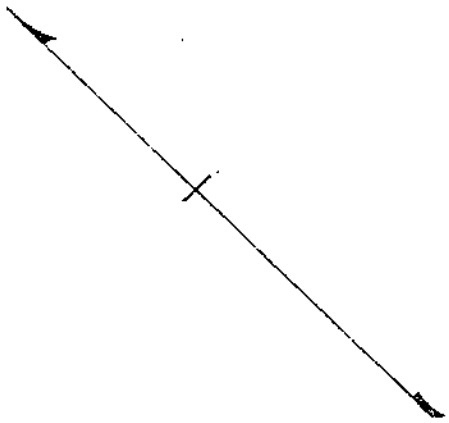

| MERV ENGINEERING CORP. | |
|---|---|
| CHUM CLAIMS<br>LEAD IN SOILS. | |
| DRAWN BY: JWM | SCALE: 1 : 5000 |
| DATE: Aug 10/82 | N.T.S. : 94 D 7 |

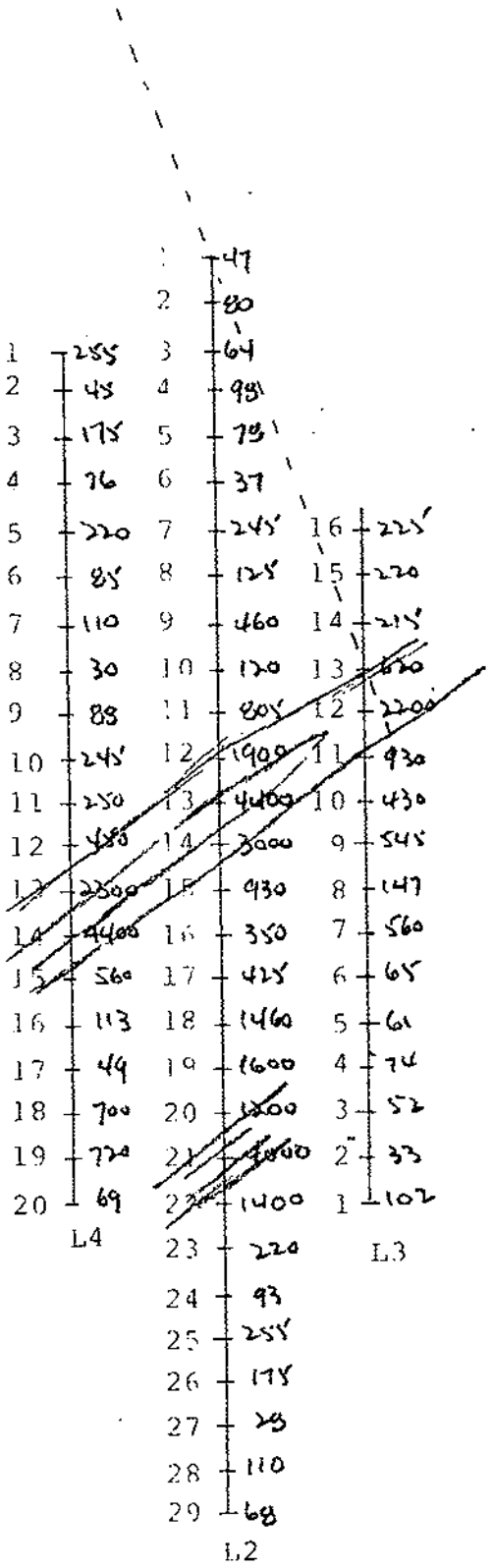

FREQ.%
100
90
80
70
60
50
40
30
20
10
X
X+S
X+2S
50
100
150
200
250
300
1000
1050
PPM LEAD

ZINC IN SOILS

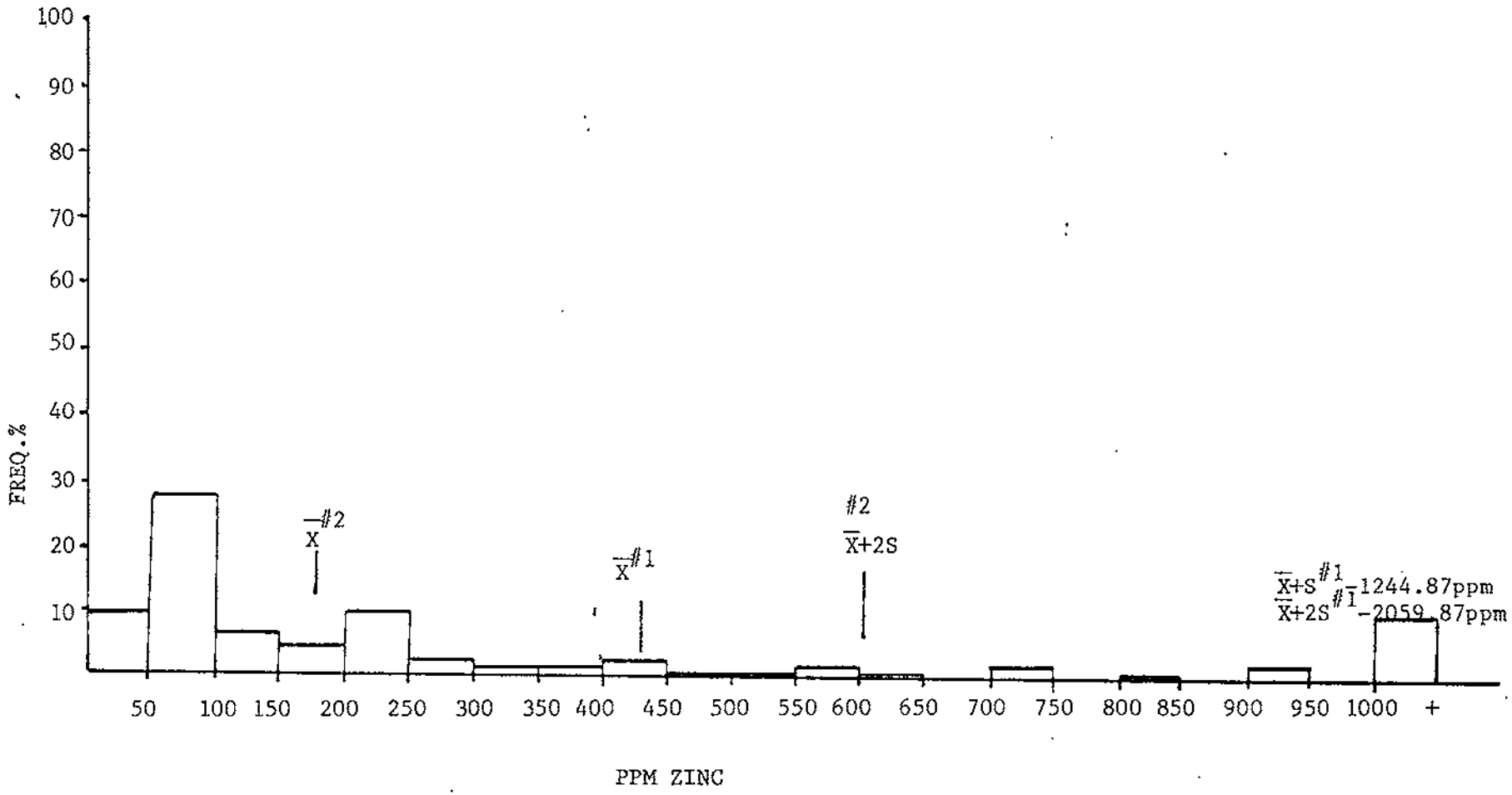
The plot of the zinc values suggests the presence of a mineralized zone striking east-west through Lines 2, 3 and 4 for a length of 300 meters and open at both ends. The values of 3000 to 4000 p.p.m. are too high to be caused by an argillaceous horizon. Another high of 4020 p.p.m. on Line 2 suggests the possibility of a parallel zone.






| MERV ENGINEERING CORP. | |
|---|---|
| CHUM CLAIMS. ZINC IN SOILS. | |
| DRAWN BY: JPM | SCALE: 1:5000 |
| DATE: Aug 10/82 | N.T.S. : 94 D 7 |


100
90
80
70
60
50
40
30
20
10
FREQ.%
$\bar{X}^{\#2}$
$\bar{X}^{\#1}$
$\bar{X}^{\#2}+2S$
$\bar{X}+S^{\#1}$ 1244.87ppm
$\bar{X}+2S^{\#1}$ 2059.87ppm
50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 +
PPM ZINC

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RECOMMENDATIONS

The high zinc values obtained in the soils requires that the survey be expanded with lines at 50 metre intervals to determine the lateral extent of the anomaly. This grid should be carried beyond the limits of the present staking, particularly to the southeast of the Sustut River.

Respectfully submitted,

J.W. MacLeod, P.Eng.

# APPENDIX I

# ANALYTICAL PROCEDURE

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone : 253 - 3158

# GEOCHEMICAL LABORATORY METHODOLOGY - 1982

## 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 (AA and ICP)

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 metals are determined by :

A. Atomic Absorption (AA)

Ag*, Bi*, Cd*, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb*, Tl, V, Zn
( * demotes with background correction.)

B. Inductively Coupled Argon Plasma (ICP)

Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

## Geochemical Analysis for Au

10.0 gram samples that have been ignited overnite at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb grahite AA.)

## Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pb, Pt and Rh are determined in the solution by Atomic Absorption.

## Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) or by Inductively Coupled Argon Plasma (ICP).

# APPENDIX II

## ANALYSES

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253-3158

To: Jemo Resources
1020 - 475 Howe St.,
Vancouver, B.C.

File No. 81-1086
Type of Samples Soils
Disposition

# GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| L1 - 1 | 270 | 8 | 57 | 1.2 |
| 2 | 58 | 16 | 110 | .7 |
| 3 | 38 | 25 | 66 | .1 |
| 4 | 55 | 27 | 165 | .9 |
| 5 | 23 | 37 | 116 | .7 |
| 6 | 43 | 34 | 83 | .3 |
| 7 | 23 | 18 | 100 | .4 |
| 8 | 22 | 10 | 80 | .4 |
| 9 | 18 | 11 | 65 | .5 |
| 10 | 35 | 20 | 117 | .5 |
| 11 | 42 | 27 | 140 | .4 |
| 12 | 54 | 20 | 170 | .9 |
| 13 | 76 | 40 | 240 | 1.0 |
| 14 | 45 | 37 | 270 | .8 |
| 15 | 50 | 40 | 270 | .7 |
| 16 | 300 | 56 | 400 | 1.8 |
| 17 | 27 | 22 | 110 | .4 |
| 18 | 85 | 20 | 85 | 1.1 |
| 19 | 18 | 16 | 100 | .4 |
| L1 - 20 | 29 | 35 | 160 | 1.2 |
| L1 - 21 | 22 | 16 | 90 | .3 |
| 22 | 15 | 14 | 87 | .5 |
| 23 | 10 | 10 | 68 | .4 |
| 24 | 17 | 25 | 90 | .2 |
| 25 | 33 | 9 | 57 | .3 |
| 26 | 26 | 21 | 89 | .3 |
| 27 | 16 | 24 | 120 | .4 |
| 28 | 17 | 20 | 135 | .3 |
| 29 | 23 | 35 | 225 | 1.0 |
| 30 | 31 | 35 | 235 | .3 |
| 31 | 27 | 38 | 365 | .4 |
| 32 | 87 | 70 | 650 | 1.2 |
| 33 | 165 | 275 | 330 | 1.1 |
| 34 | 42 | 17 | 100 | .5 |
| 35 | 16 | 10 | 38 | .2 |
| 36 | 14 | 17 | 50 | 1.1 |
| L1 - 37 | 8 | 18 | 35 | .3 |

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All results are in PPM.

DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Aug. 18, 1981

DATE REPORTS MAILED Aug. 27, 1981

ASSAYER D. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Jemo Resources

File No. 81-1086

Type of Samples

Disposition

# GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Pb | Zn | Ag |
|---|---|---|---|---|
| L1 - 38 | 25 | 19 | 110 | .6 |
| 39 | 26 | 23 | 84 | .1 |
| 40 | 19 | 25 | 84 | .1 |
| 41 | 24 | 25 | 93 | .4 |
| 42 | 25 | 36 | 125 | .6 |
| 43 | 15 | 38 | 139 | .9 |
| 44 | 14 | 25 | 80 | .6 |
| 45 | 15 | 20 | 49 | 1.3 |
| L1 - 46 | 14 | 19 | 52 | .4 |
| L2 - 1 | 19 | 10 | 47 | .3 |
| 2 | 45 | 20 | 80 | .2 |
| 3 | 12 | 23 | 64 | .9 |
| 4 | 30 | 19 | 98 | .1 |
| 5 | 38 | 20 | 78 | .7 |
| 6 | 16 | 10 | 37 | .4 |
| 7 | 45 | 26 | 245 | .3 |
| 8 | 34 | 19 | 125 | .3 |
| 9 | 51 | 64 | 460 | .8 |
| 10 | 25 | 35 | 120 | .6 |
| 11 | 95 | 80 | 805 | .5 |
| 12 | 115 | 85 | 1900 | .7 |
| 13 | 425 | 160 | 4400 | 1.4 |
| 14 | 320 | 1050 | 3000 | 5.9 |
| 15 | 100 | 160 | 930 | .9 |
| 16 | 34 | 66 | 350 | .6 |
| 17 | 45 | 160 | 425 | .7 |
| 18 | 68 | 150 | 1460 | .9 |
| 19 | 29 | 34 | 1600 | .8 |
| 20 | 28 | 40 | 1200 | .4 |
| 21 | 140 | 67 | 4000 | .6 |
| 22 | 75 | 22 | 1440 | .4 |
| 23 | 53 | 6 | 220 | .3 |
| 24 | 20 | 12 | 93 | .6 |
| 25 | 39 | 10 | 255 | .2 |
| 26 | 51 | 10 | 175 | 1.6 |
| 27 | 12 | 4 | 28 | .1 |
| L2 - 28 | 59 | 26 | 110 | 1.3 |

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DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Aug. 18, 1981

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ASSAYER

DEAN TOYE, B.Sc.
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852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Jemo Resources

File No. 81-1086

Type of Samples

Disposition

# GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Pb | Zn | Ag | |
|---|---|---|---|---|---|
| L2 - 29 | 66 | 7 | 68 | 1.2 | 1 |
| | | | | | 2 |
| L3 - 1 | 17 | 10 | 102 | .2 | 3 |
| 2 | 10 | 6 | 33 | .4 | 4 |
| 3 | 14 | 10 | 52 | .1 | 5 |
| 4 | 19 | 12 | 74 | .1 | 6 |
| 5 | 19 | 17 | 61 | .1 | 7 |
| 6 | 25 | 15 | 65 | .1 | 8 |
| 7 | 29 | 35 | 560 | .1 | 9 |
| 8 | 25 | 20 | 147 | .1 | 10 |
| 9 | 35 | 14 | 545 | .1 | 11 |
| 10 | 35 | 34 | 430 | .1 | 12 |
| 11 | 40 | 150 | 930 | .3 | 13 |
| 12 | 100 | 75 | 2200 | .8 | 14 |
| 13 | 64 | 45 | 620 | .2 | 15 |
| 14 | 26 | 22 | 215 | .2 | 16 |
| 15 | 38 | 27 | 220 | .6 | 17 |
| L3 - 16 | 25 | 15 | 225 | .1 | 18 |
| | | | | | 19 |
| L4 - 1 | 42 | 40 | 255 | .2 | 20 |
| 2 | 10 | 15 | 45 | .1 | 21 |
| 3 | 31 | 39 | 175 | .1 | 22 |
| 4 | 11 | 40 | 76 | .2 | 23 |
| 5 | 23 | 65 | 220 | .4 | 24 |
| 6 | 12 | 26 | 85 | 1.1 | 25 |
| 7 | 17 | 25 | 110 | .3 | 26 |
| 8 | 10 | 25 | 30 | .2 | 27 |
| 9 | 16 | 25 | 88 | .1 | 28 |
| 10 | 50 | 35 | 245 | .2 | 29 |
| 11 | 30 | 59 | 250 | .5 | 30 |
| 12 | 40 | 30 | 450 | .6 | 31 |
| 13 | 120 | 175 | 2300 | 2.1 | 32 |
| 14 | 335 | 235 | 4400 | .8 | 33 |
| 15 | 30 | 125 | 560 | .1 | 34 |
| 16 | 10 | 18 | 113 | .2 | 35 |
| 17 | 17 | 15 | 49 | .1 | 36 |
| 18 | 43 | 180 | 700 | .1 | 37 |
| 19 | 38 | 110 | 720 | .3 | 38 |
| L4 - 20 | 15 | 90 | 69 | .1 | 39 |
| | | | | | 40 |

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All results are in PPM.

DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Aug. 18, 1981

DATE REPORTS MAILED Aug. 27, 1981

ASSAYER D. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone:253 - 3158

To: Jemo Resources

File No. 81-1086

Type of Samples

Disposition

# GEOCHEMICAL ASSAY CERTIFICATE

| SAMPLE No. | Cu | Pb | Zn | Ag | |
|---|---|---|---|---|---|
| Silt 1 | 31 | 17 | 188 | .2 | 1 |
| Silt 2 | 55 | 28 | 1685 | .1 | 2 |
| | | | | | 3 |
| | | | | | 4 |
| | | | | | 5 |
| | | | | | 6 |
| | | | | | 7 |
| | | | | | 8 |
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| | | | | | 39 |
| | | | | | 40 |

All reports are the confidencial property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 18, 1981

DATE REPORTS MAILED Aug. 27, 1981

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

# APPENDIX III

# EXPENDITURES

## EXPENDITURES

| | | |
|---|---|---|
| A.E. Angus | August 10-11<br>2 days soil collection @ $100 | $ 200.00 |
| C.E. Angus | August 12-13<br>2 days soil collection @ $100 | 200.00 |
| A.E. Angus | August 12-13<br>2 days travel @ $100 | 200.00 |
| C.E. Angus | August 12-13<br>2 days travel @ $100 | 200.00 |
| | | $ 800.00 |
| Northern Mountain Helicopter<br>1/2 invoice 13173 | | 675.00 |
| Acme Anlaytical Laboratories<br>Analyses | | 412.45 |
| Report preparation | | 400.00 |
| Expenditure applicable to assessment: | | $ 2,287.45 |

NORTHERN MOUNTAIN HELICOPTERS INC.

CHARTER AND CONTRACT TICKET

Date

Charge To:

P.O.

Pilot | Base | | Cash | Cheque | Charge

A/C Type | CF | | Area

From | To (1) | To (2) | To (3) | To (4) | To (5) | To (6) | To (7) | To (8) | To (9) | To (10) | To (11)

Charter Rate | Hours at $ | $

Contract Rate | Hours at $

Fuel Charge

Pilot Expenses

Other

TOTAL CHGE.

I personally guarantee payment of this charter.

Authorized by:

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted: (Passengers' Signature)

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

No. of Departures | No. of Passengers | Lbs. cargo

No. of hours flown | Miles flown

Base or designated Pt.

Class of flying

13173

MAIN BASE
P.O. Box 368
Prince George, B.C.
Phone 963-9622
Telex 047-8027

2 BASE
P.O. Box 280
Fort St. James, B.C.
Phone 996-7208

# ACME ANALYTICAL LABORATORIES LTD.

PHONE: 253-3158 6455 LAUREL STREET, BURNABY B.C. V5E 2K2

PHONE: 299-5242

852 East Hastings St., Vancouver, B.C. V6A 1R6

Aug. 27, 1981
File #81-1086

Jemo Resources
1020 - 475 Howe St.,
Vancouver, B.C.

TERMS:
NET TWO WEEKS INTEREST AT 1½% PER MONTH CHARGED ON OVERDUE ACCOUNTS.

| NUMBER | ASSAY | PRICE | AMOUNT |
|---|---|---|---|
| 113 | Geochem Cu, Pb, Zn and Ag assays @ | $3.25 | $367.25 |
| 113 | Soil sample preparation @ | $0.40 | $ 45.20 |
| | | | $412.45 |

Paid Sept 21/81
Cheque - #6

# APPENDIX IV

## ENGINEERS CERTIFICATE

CERTIFICATE

I, James W. MacLeod of 1220 Arbutus Street in the City of Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. That I am a Consulting Engineer, with a business address at 1450-625 Howe Street, in the City of Vancouver, Province of British Columbia.

2. That I am a graduate of the University of Alberta with a degree of B.Sc. in Mining Engineering.

3. That I have actively practiced my profession in mineral exploration since graduation in 1946.

4. That I am a registered Professional Engineer in the Province of British Columbia.

5. That this report is based on a season spent in the area covered by the Chum Claims which included an examination of the area in the immediate vicinity of the anomaly.

J.W. MacLeod, B.Sc., P.Eng.

Dated at the City of Vancouver,
Province of British Columbia,
this 10th day of August 1982.