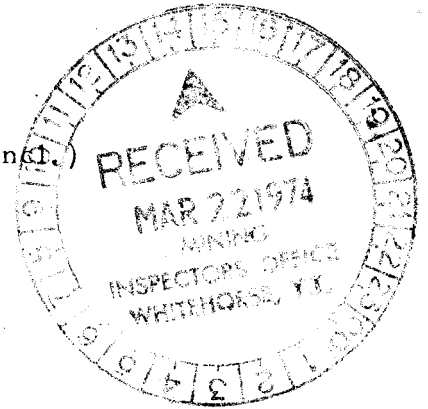




REPORT ON A GEOCHEMICAL SURVEY
ON THE JAN CLAIMS

Covering: JAN 1 - 110 (Y 75161 - Y 75270 incl.)

Located: 22 miles northeast of Faro in the
Whitehorse Mining District
Latitude 62° 26' N 132° 52' W



Work Performed: July and August 1973

This report has been examined by the
Geological Branch and is recom-
mended to the Board of Mines as a
reliable report. The value of the
report is \$10,849.30

\$10,849.30

for

RIDGEMONT MINING CORPORATION (Incorporated under
Section 33 (a) Yukon Quartz Mining Act)

by

G. A. Wilson, B.Sc.

and

J. G. Simpson, Ph.D., P.Eng.

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INTRODUCTION

This report describes a geochemical survey conducted on the JAN claims in July and August of 1973. The JAN claims are owned by Ridgemont Mining Corporation, a wholly-owned subsidiary of Cyprus Mines Corporation.

LOCATION & ACCESS

The JAN claims are located 22 miles northeast of the town of Faro in the Whitehorse Mining District on claim sheet 105-K-7.

The claims are accessible by helicopter from Faro, 22 miles to the southwest or Ross River, 32 miles to the southeast. A tote road from the vicinity of Swim Lake extends to the south end of the claim block, but the author is not aware of its condition.

CLAIMS

The claim block consists of the following 110 full-sized mineral claims:-

<u>Claim Name</u>	<u>Record Numbers</u>	<u>Expiry Date</u>
JAN 1 - 110 incl.	Y 75161 - Y 75270 incl.	March 8, 1974

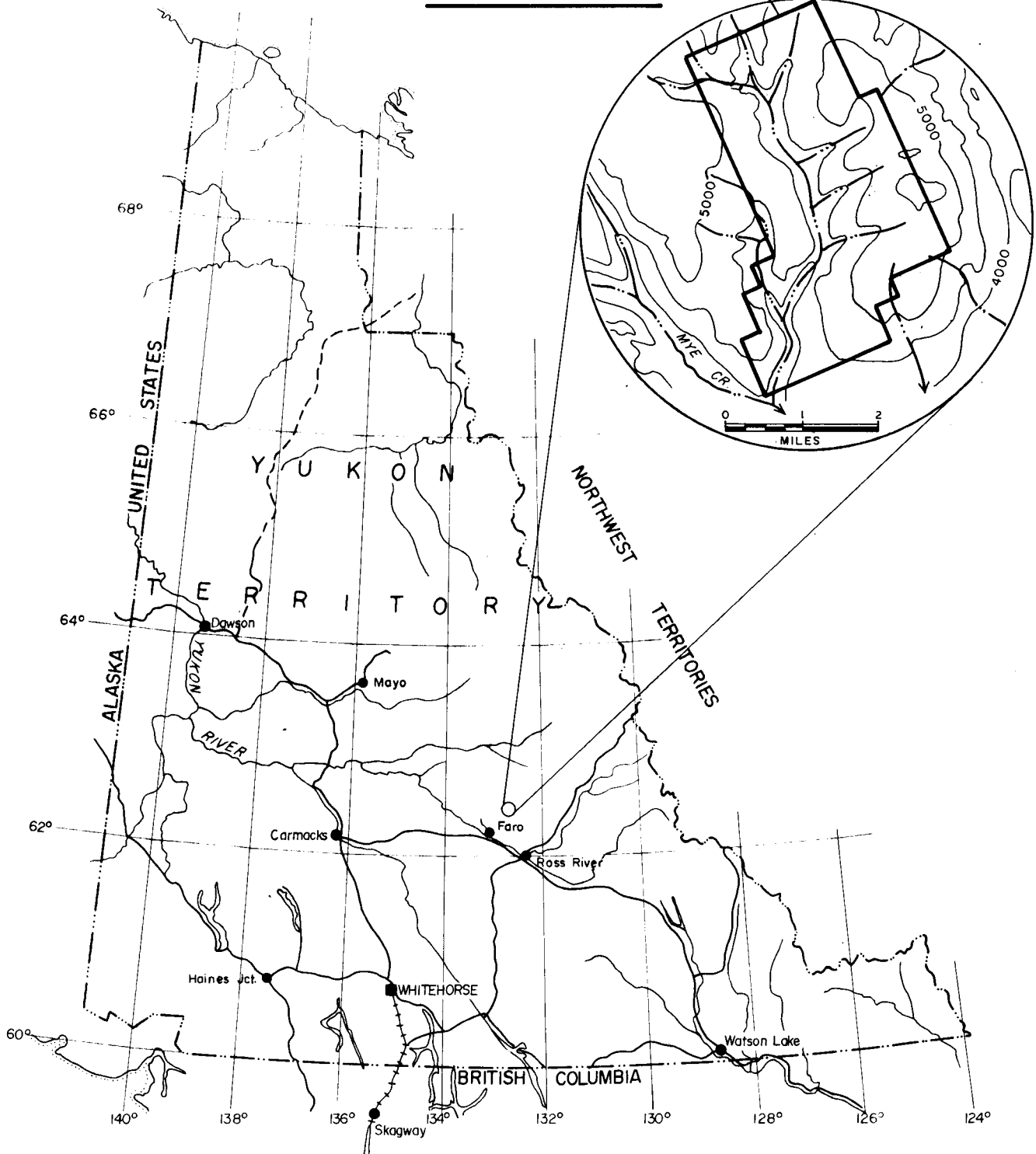
PREVIOUS WORK

The general area of the JAN claims has been staked previously as the Laurel claims by Anvil Mining Corporation. In 1966 Anvil conducted soil sampling over a portion of the ground now staked as the JAN claims and ground magnetometer and Crone JEM surveys over a smaller portion within the area of the geochemical survey. Anvil also drilled at least one hole which is located in the vicinity of 216N, 110E.

PHYSIOGRAPHY

The JAN claims cover a broad rolling upland surface on which a trellised drainage pattern is deeply incised. Outcrop is not abundant on the upland surface but widely scattered outcrops are found in small gullies showing that no great thickness of glacial overburden is present. Good outcrops are usually present in the walls of the incised streams. The property is mostly well drained, however, some stream valleys are fairly swampy, particularly in the northeastern portion of the claim block.

JAN CLAIMS



RIDGEMONT MINING CORPORATION

JAN CLAIMS

PROPERTY LOCATION MAP

YUKON

SCALE : 1" = 100 MILES

The upland surface is covered by dense low bush with only scattered patches of trees. Tree cover is more abundant on the east side of the stream valleys and at the south end of the property. Vegetation cover is everywhere sufficient to necessitate line cutting for follow-up geophysical surveys.

GEOLOGICAL SETTING

The claims are underlain by irregularly warped, eutaxitic, black, tuffaceous, cherty rocks associated with less abundant banded, white, siliceous pyroclastics. These tuffaceous rocks are interrelated with black siliceous slate and minor black chert. These rocks are shown by G. S. C. mapping to be part of the Upper Devonian and Mississippian Earn Group.

GEOCHEMISTRY

Methods & Procedures

An attempt was made to collect soil samples from the B horizon as experience has shown this to be the best sample media. Shovels and mattocks were used to collect samples which were placed in wet strength Kraft paper bags and partly dried at room temperature in camp.

In practice it is often impossible to reach the B horizon due to the extensive permafrost or a thick layer of organic material in swampy areas. In these cases a sample of the A horizon was taken rather than the B.

Samples were taken every 200 feet along lines spaced 800' apart and initially every other sample was analysed for copper, lead and zinc. If these spaced samples were moderately high, then the intervening samples were also analysed.

Samples were shipped to the Whitehorse laboratory of Barringer Research. The samples were oven dried at 70°C and sieved to -80 mesh on nylon screens. A 250 mg portion of the -80 mesh fraction was digested in perchloric acid and the metal content of the resultant solution determined by the atomic absorption method. Copper and zinc values are given as determined by direct reading, however, lead is given as a matrix corrected value. The corrected lead value is found by determining the response using two lamps, one with a narrow spectral source and the other with a broad source. One lamp determines lead response plus matrix response, the other just matrix response. Subtraction gives the corrected lead value.

The corrected lead readings are designed to lessen the effect of changes in the matrix which are due to changes in underlying bedrock.

Results

The results of the geochemical survey are plotted on Maps 2, 3 and 4 in the pockets. Figures 2, 3 and 4 are histograms of the results for the various metals.

From consideration of the histograms and the distribution of values on the maps, lead is considered definitely anomalous if it exceeds 40 ppm, zinc 220 ppm and copper 50 ppm. The zinc histogram is weakly bi-modal and the lead values show a slight indication of a second population. The second, higher, population of lead and zinc values arises from the somewhat higher background metal content of soil from the northeastern portion of the grid. It is not clear whether this higher background is due to higher lead and zinc content in the underlying rocks or merely secondary dispersion from several areas of very high metal concentration giving a very large sub-anomalous population. The second possibility seems more likely since the sub-anomalous population is better developed in zinc, a more mobile element in the surficial environment.

In the northeastern portion of the claim block a number of small anomalies are present. The anomalies are best developed in lead and zinc with only local low-order copper anomalies. For the most part lead and zinc are not coincident although where values are high, there is a stronger tendency toward coincidence. This lack of coincidence is probably explained by extensive surficial dispersion from a few small sources near the coincident high values. The string of high zinc values along the baseline from 176N to 256N and from 256N, 100E to 280N, 130E are both in swampy stream valleys. The latter probably arises from a source near 248N, 122E where high coincident lead and zinc values are found. A small lead anomaly lies midway between the proposed zinc accumulation and the zinc and lead source. This is probably the analogous lead concentration. A similar source - surficial accumulation relationship probably explains the lead-zinc pattern on lines 184N, 192N, 200N and 208N between 122E and 138E. The source here would be near 184W and 132E. At the eastern ends of lines 192N, 200N, 208N and 216N are non-coincident lead, zinc and copper anomalies that may be dispersed from a source to the east of the grid. Several other weak non-coincident anomalies are present in and around the area of the above anomalies. Some or all of the non-coincident anomalies may, of course, be due to non-coincident metal values in the bedrock implying the presence of more dispersed mineralization.

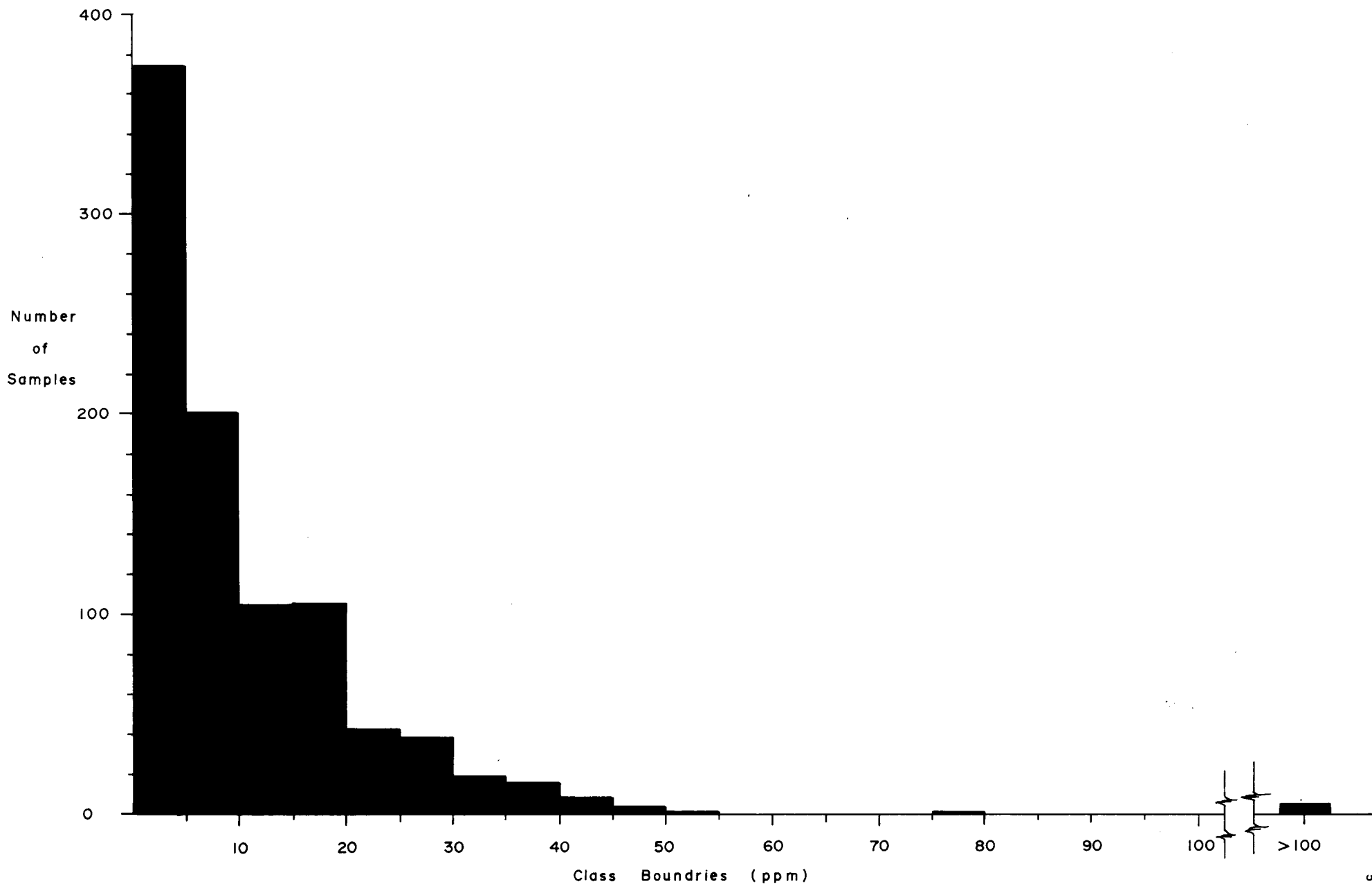


FIGURE 2 HISTOGRAM of RESULTS — LEAD

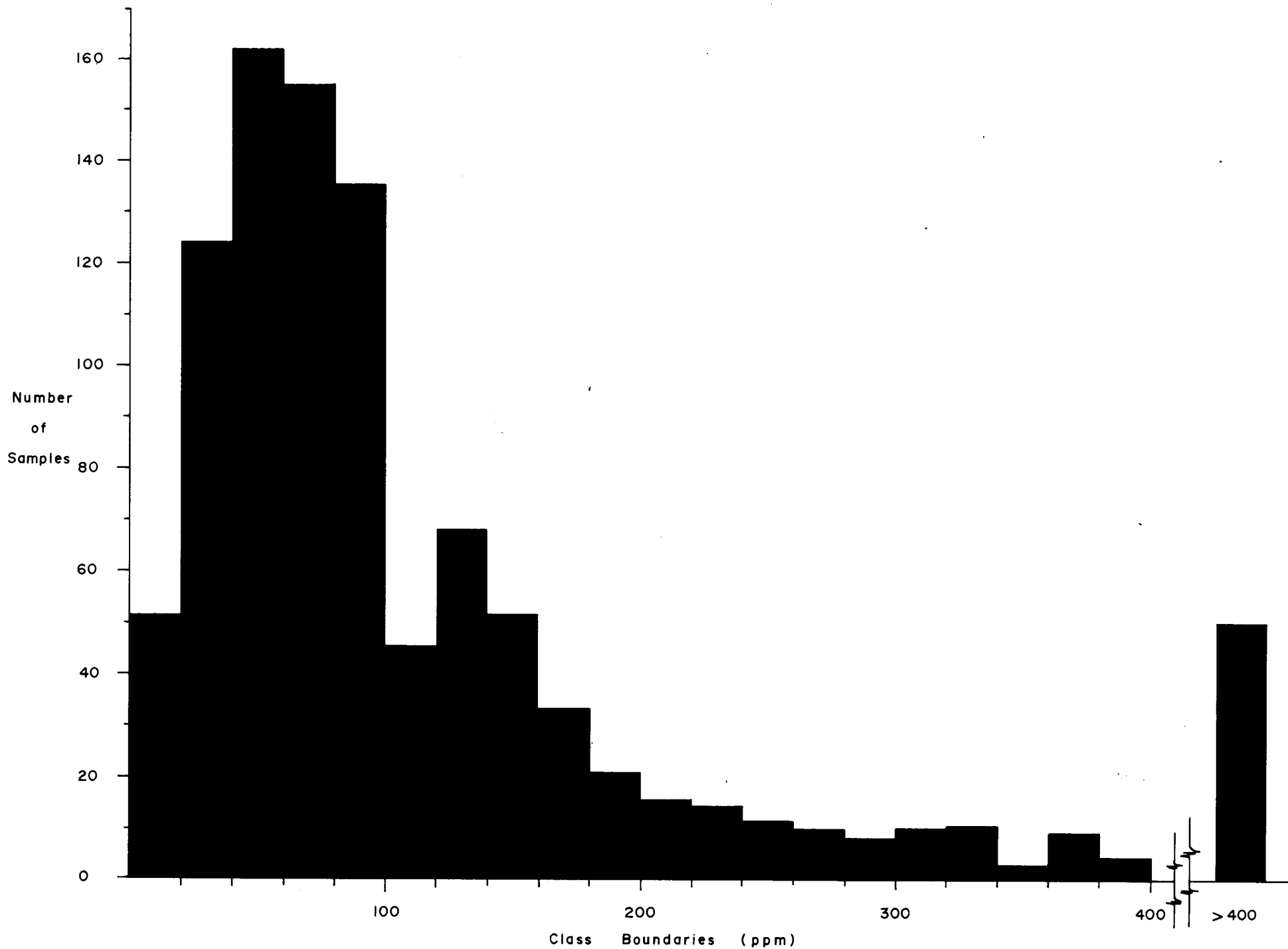


FIGURE 3 HISTOGRAM of RESULTS — ZINC

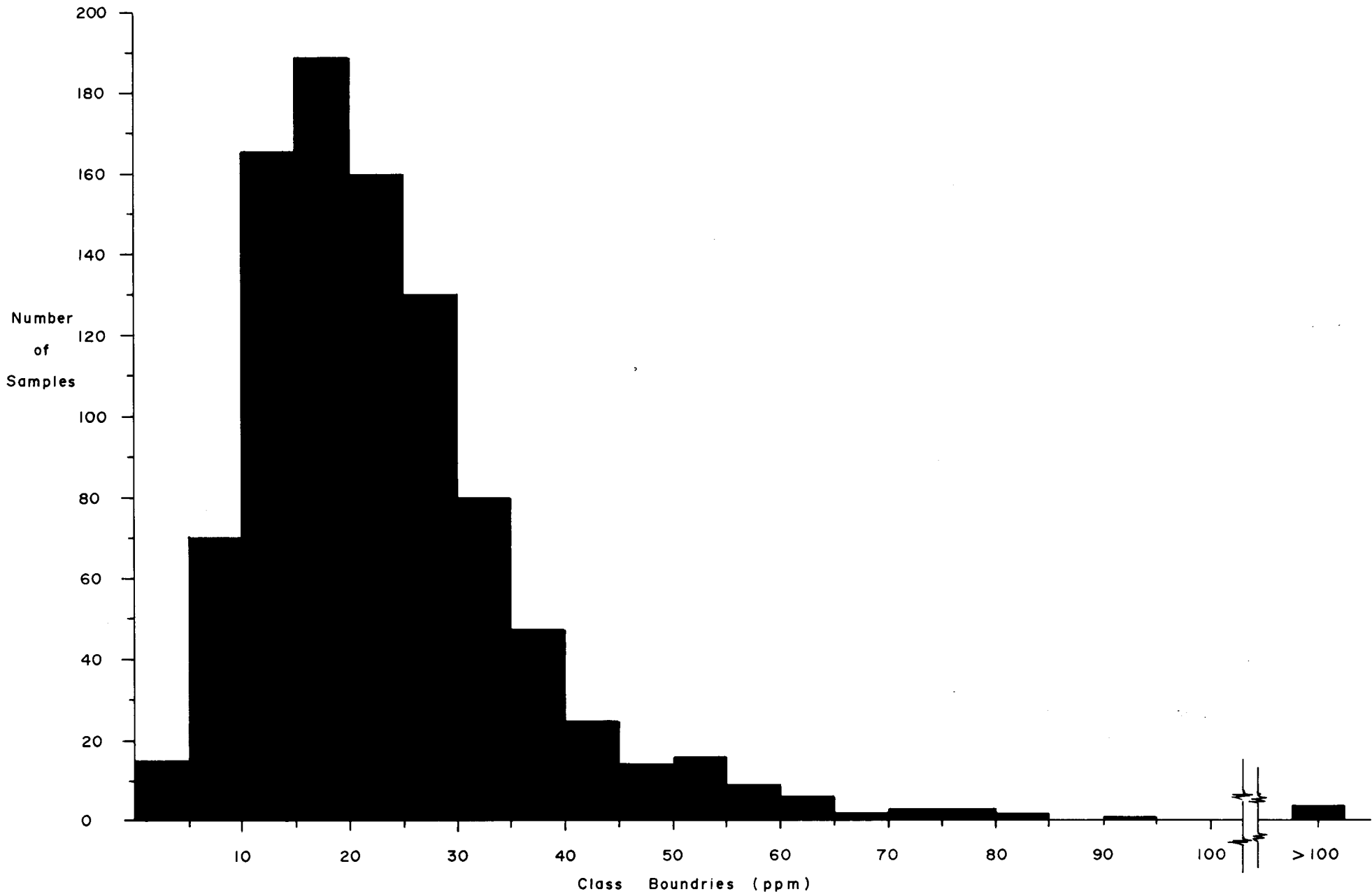


FIGURE 4 HISTOGRAM of RESULTS — COPPER

CONCLUSIONS & RECOMMENDATIONS

The results of the survey show that a large area exists with anomalous amounts of metals in the soils, but that small scattered areas of high metal content in the underlying rocks and not one or more large sources are present. These small metal sources are probably lead and zinc veins of no economic interest. Silt sampling to the northeast of the JAN claims shows that the soil anomalies on the claim block are part of a larger area which should be closed off by soil sampling. While the grid is being extended to the north and east, the present grid should be accurately located with respect to topographic features to determine if the various surficial accumulations proposed are realistic in detail. Profile sampling and determination of cold extractable to total metal ratios of the existing samples may prove useful to further investigate the known anomalies and confirm the proposed explanation. Detailed prospecting of the area especially the source areas should be carried out.

In summary, it is considered unlikely that substantial amounts of near surface ore exists on the JAN claims, but the follow-up grid extension geochemical work outlined above is warranted by the presence of widespread anomalous amounts of metal in an area underlain by potentially favourable acid volcanics.

Respectfully submitted,



G. A. Jilson, B.Sc.



J. G. Simpson, Ph.D., P. Eng.

APPENDIX I

Personnel

APPENDIX I

Personnel

JAN Claims 1973

List of Personnel Employed

<u>Name</u>	<u>Position</u>	<u>Address</u>
J. G. Simpson, Ph. D. , P. Eng.	Supervisor	720 Anderson Crescent West Vancouver, B.C.
P. F. Lewis, B.Sc.	Geologist	802-1686 W. 12th Vancouver, B.C.
D. Tapley	Field Asst.	18 Gair Drive, Toronto 520, Ontario
J. Pollock	Field Asst.	35 Radlett Avenue, Toronto 14, Ontario
K. Tompson	Field Asst.	3950 Bayridge Court, West Vancouver, B.C.
P. Renouf	Field Asst.	706-1133 Beach Avenue Vancouver, B.C.
H. Jansen	Cook	1531 McGregor Avenue Montreal, Quebec H3G IC6

APPENDIX II

Cost Summary

Geochemical analyses and consulting

<u>Company</u>	<u>Invoice #</u>	<u>Cost</u>	
Barringer Research Ltd.	12691	200.00	
"	12475	626.50	
"	12541	550.15	
"	12547	349.15	
"	12458	618.90	
"	12476	404.10	
		<hr/>	
		2,748.80	2,748.80

Drafting and report

J. G. Simpson, Ph. D., P. Eng.	1 day @ \$100.00	100.00	
G. Jilson, B.Sc.,	3 days@ 50.00	150.00	
C. L. Cory, Drafting.	20 hrs@ 5.00	100.00	
		<hr/>	
		\$ 350.00	350.00
			<hr/>
			\$ 10,849.30

I certify that the above costs were incurred on the JAN Claims during the period stated.

APPENDIX III

Supporting Invoices



ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air
(TERRITORIAL AIRWAYS)

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

CHARTER
405/3129

PROJECT: 405 L.P.O CHARTER TICKET No 1033
 AIRCRAFT OH DATE Aug 1/73
 NAME Ross River Mining
 ADDRESS _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
<i>Simpson from Ross to Camp</i>	<i>07</i>		<i>1/2</i>
TOTAL HRS <i>07</i> @ <i>135</i> PER HR.	<i>07</i>	<i>50</i>	
EXTRA CHARGES			
TOTAL CHARGES	<i>94.50</i>		<i>1/2</i>

[Signature]
Charterer's Authorization

[Signature]
Pilot's Signature



ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air
(TERRITORIAL AIRWAYS)

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

405/3129

PROJECT: # 405 CHARTER TICKET NO 1040
 AIRCRAFT C-47 DATE Aug 3/5
 NAME Richardson, William
 ADDRESS _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
Supplies to Pete's Camp	1.4		n/a
TOTAL HRS 1.4 • 135 PER HR.	1.4	00	
EXTRA CHARGES			
TOTAL CHARGES	198.00		

Charterer's Authorization

Pilot's Signature



ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air
(TERRITORIAL AIRWAYS)

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

405/3129

PROJECT: 405 CHARTER TICKET No **1052**
 AIRCRAFT: CF-119R DATE: Aug 11/73
 NAME: Ridgemont Mining
 ADDRESS: _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
Ross R. - FARO (TERR AIR)			
FARO - CAMP MONE			
RTN - FARO	1:45		100 lbs
FARO - Ross R. (TERR AIR)			50 lbs
s/b 1.75 hrs			26
2.6	1:75		hrs
TOTAL HRS 2:35 @ 135.00 PER HR.			
EXTRA CHARGES			
TOTAL CHARGES	243.00, 236.25		

[Signature]
Charterer's Authorization

[Signature]
Pilot's Signature



ROSS RIVER
YUKON
CANADA

FIXED AND ROTARY
WING AIRCRAFT

terr-air LTD.
(TERRITORIAL AIRWAYS)

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

CHARGE TO:
405/3129

PROJECT: 405 CHARTER TICKET NO 1189
AIRCRAFT OKT DATE Aug 10 73
NAME Ridgmont Mining Corp.
ADDRESS _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
<i>Groceries to fly camp and L. Johnson samples</i>	1	13	
TOTAL HRS <u>1.3</u> • <u>135.00</u> PER HR.	<u>175.50</u>		
EXTRA CHARGES			
TOTAL CHARGES	<u>175.50</u>		

[Signature]
Charterer's Authorization

[Signature]
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

CHARGE TO:
405/3129

PROJECT: _____ CHARTER TICKET No 1202
AIRCRAFT DAT DATE Aug 18-73
NAME Lidgmont Mining Corp.
ADDRESS _____

FLIGHT/PASSENGER DETAILS	HOURS	MINS.	FUEL
<i>Move camp into Myle Camp. proceed to fly camp</i>	3	15	<i>Carload fuel</i>
<i>405</i>			
TOTAL HRS <u>3.5</u> • <u>135.00</u> PER HR.	<u>472.50</u>		
EXTRA CHARGES			
TOTAL CHARGES	<u>472.50</u>		

[Signature]
Charterer's Authorization

[Signature]
Pilot's Signature



BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
METROPOLITAN TORONTO
REXDALE, ONTARIO
CANADA M9W 5G2
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES AND METHODS FOR THE EXPLORATION OF OIL AND GAS RESOURCES

DATE: October 31, 1973

PROJECT: 411.34

- Curran Explorations
510 West Hastings Street
Vancouver, British Columbia
- Attention: Dr. C. Simpson

PERIOD COVERED:

PROGRESS BILLING:
SHIPPING REPORT:
WORK REPORT:
FED. SALES TAX: N/A
ONT. SALES TAX: N/A

TERMS: NET 30 days

PO 692

AUTHORITY:

TO: Consulting by Dr. Bradshaw

Victoria Falls Area:

June 27-28 1-1/2 days @ \$200.00/day	300.00
Report Writing 3 days @ \$200.00/day	600.00
Drafting 6 days @ \$80.00/day	480.00

Mt. Nye Area:

June 29- July 1 2-1/2 days @ \$200.00/day	500.00
---	--------

Share of Transportation

125.00

Subsistence

28.50

TOTAL THIS INVOICE

\$ 2,033.50 ✓

DECEMBER 11 1973 RECEIVED

405 / 3120
460
490

500.00
425.00
1108.50
Other

INVOICE N° 12691



304 CARLINGVIEW DRIVE
 REXDALE, ONTARIO, CANADA
 PHONE: 416-677-2491
 CABLE: BARESEARCH

DATE: August 31, 1973

PROJECT: 119.33

- Ridgemont Mining Corporation
 1101 - 510 W. Hastings Street
 • Vancouver, British Columbia

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 77-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

TERMS: NET 30 days

AUTHORITY: G. Jilson
 Project 405 (JAN)
 Order 686

TO: Geochemical Analysis

302 Samples analyzed for HClO ₄ Copper	@ 1.00 each	302.00
302 Samples analyzed for HClO ₄ Lead (corrected)	.50 each	151.00
302 Samples analyzed for HClO ₄ Zinc	.25 each	75.50
490 Soil Sample preparation	.20 each	<u>98.00</u>

TOTAL INVOICE

\$ 626.50 *flm*

RECEIVED
 OCT 5 - 1973
 BARRINGER RESEARCH

INVOICE N^o 12175



304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-677-2491
 CABLE: BARESEARCH

DATE: September 14, 1973

PROJECT: 119.33

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 91-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

405/300

- Ridgemont Mining Corporation
 1101 - 510 W. Hastings Street
- Vancouver, British Columbia

TERMS: NET 30 days

AUTHORITY: G. Jilson, Project 405, Order # 686

TO: Geochemical Analysis

261 Samples analyzed for HC10 ₄ Copper	@ 1.00 each	261.00
261 Samples analyzed for HC10 ₄ Lead (corrected)	.50 each	130.50
261 Samples analyzed for HC10 ₄ Zinc	.25 each	65.25
467 Soil Sample preparation	.20 each	93.40

TOTAL INVOICE

\$ 550.15

PAID
 OCT 5 - 1973
 RECEIVED

INVOICE N^o 12541



304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-677-2491
 CABLE: BARESEARCH

ADVANCED TECHNOLOGY

DATE: **September 14, 1973**

PROJECT: **119.33**

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: **86-A**

FED. SALES TAX: **N/A**

ONT. SALES TAX: **N/A**

405/3121

- Ridgmont Mining Corporation
 1101 510 W. Hastings Street
 • Vancouver, British Columbia

TERMS: NET **30 days**

AUTHORITY: **G. Jilson, Project 405, Order #686**

TO: **Geochemical Analysis**

114 Samples analyzed for C _x EDTA Copper	1.00 each	114.00
114 Samples analyzed for C _x EDTA Lead	.25 each	28.50
114 Samples analyzed for C _x EDTA Zinc	.25 each	28.50
165 Samples analyzed for HClO ₄ Copper	1.00 each	165.00
165 Samples analyzed for HClO ₄ Lead (corrected)	.50 each	82.50
165 Samples analyzed for HClO ₄ Zinc	.25 each	41.25
416 Soil Sample preparation	.20 each	83.20

TOTAL INVOICE

\$ 542.95 *J*

RECEIVED
 OCT 5 - 1973
RECEIVED

INVOICE N^o 12547



304 CARLINGVIEW DRIVE
 REXDALE, ONTARIO, CANADA
 PHONE: 416-677-2491
 CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE POLYMER INDUSTRY

DATE: August 29, 1973

PROJECT: 119-33

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 75-A

FED. SALES TAX: N/A

ONT. SALES TAX: N/A

405/3121

- Ridgmont Mining Corp
 1111 - 117th St
 Vancouver, B. C.

TERMS: NET 30 days

AUTHORITY: G. Jilson
 Project: 405 (JAN)
 Order: 686

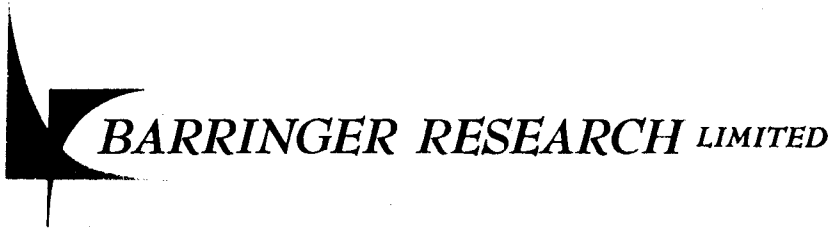
TO:

GEOCHEMICAL ANALYSIS

✓ 302 Samples analyzed for HClO ₄ Copper	@ \$ 1.00 each	302.00
✓ 302 Samples analyzed for HClO ₄ Lead (Corrected)	@ \$.50 each	151.00
✓ 302 Samples analyzed for HClO ₄ Zinc	@ \$.25 each	75.50
✓ 413 Soil sample preparation	@ \$.20 each	<u>82.60</u>
		611.10
Yukon Bus lines ccl302		<u>7.80</u>

TOTAL INVOICE

\$ 618.90 *Jm*



304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

ADVANCED TECHNIQUES

DATE: August 31, 1973

Ridgemont Mining Corporation
1101 510 W. Hastings Street
Vancouver, British Columbia

PROJECT: 119.23

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT:

FED. SALES TAX:

ONT. SALES TAX:

70-A

N/A

N/A

405/3121

TERMS: NET 30 days

AUTHORITY: G. Jilson
Project 405 (JAN)
Order 686

TO: Geochemical Analysis

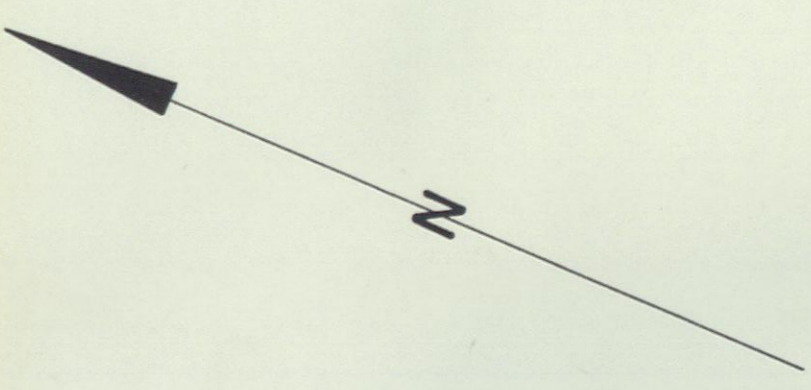
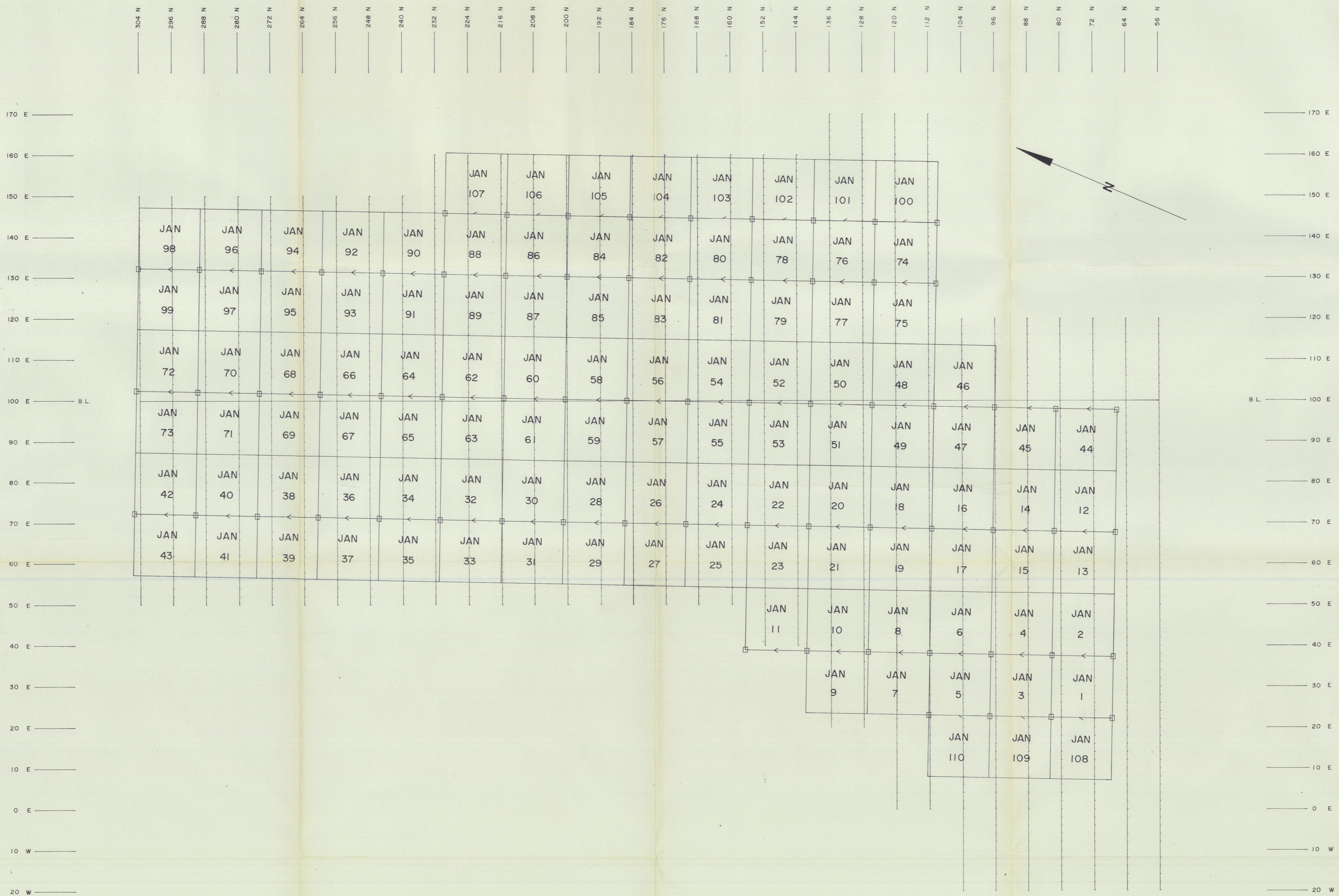
202 Samples analyzed for HClO ₄ Copper @ 1.00 each	202.00
202 Samples analyzed for HClO ₄ Lead (corrected) .50 each	101.00
202 Samples analyzed for HClO ₄ Zinc .25 each	50.50
253 Soil Sample Preparation .20 each	50.60

TOTAL INVOICE

\$ 404.10

RECEIVED
OCT 4 - 1973
REGULATORY

INVOICE N^o 12176



RIDGEMONT MINING CORPORATION

ANVIL RANGE PROJECT
JAN CLAIMS

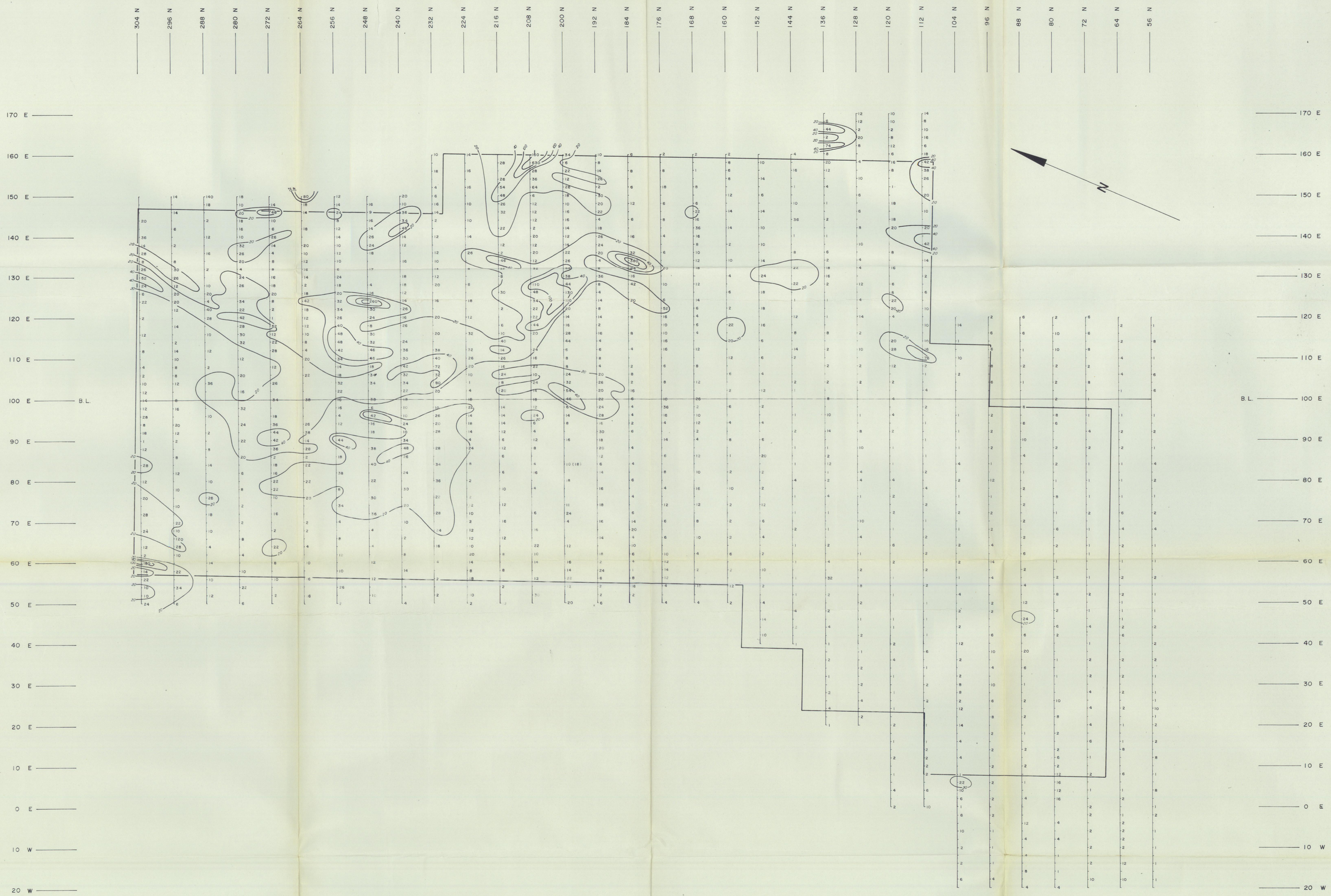
CLAIMS MAP

[Signature]

DRAWN BY: C. L. C.
 Scale: 1" = 1000'
 N. T. S. SHEET 105 K

DATE: OCT. 1973
 FEET
 MAP I

To accompany: A report on geochemical survey on Jan claims. Feb. 1974 by G. A. Jilson B.Sc. J. G. Simpson Ph. D., P. Eng.



To accompany: A report on geochemical survey on
 Jan claims Feb. 1974 by G. A. Jilson B. Sc.
 J. G. Simpson Ph. D., P. Eng.

304 N
296 N
288 N
280 N
272 N
264 N
256 N
248 N
240 N
232 N
224 N
216 N
208 N
200 N
192 N
184 N
176 N
168 N
160 N
152 N
144 N
136 N
128 N
120 N
112 N
104 N
96 N
88 N
80 N
72 N
64 N
56 N

RIDGEMONT MINING CORPORATION

ANVIL RANGE PROJECT
 JAN CLAIMS

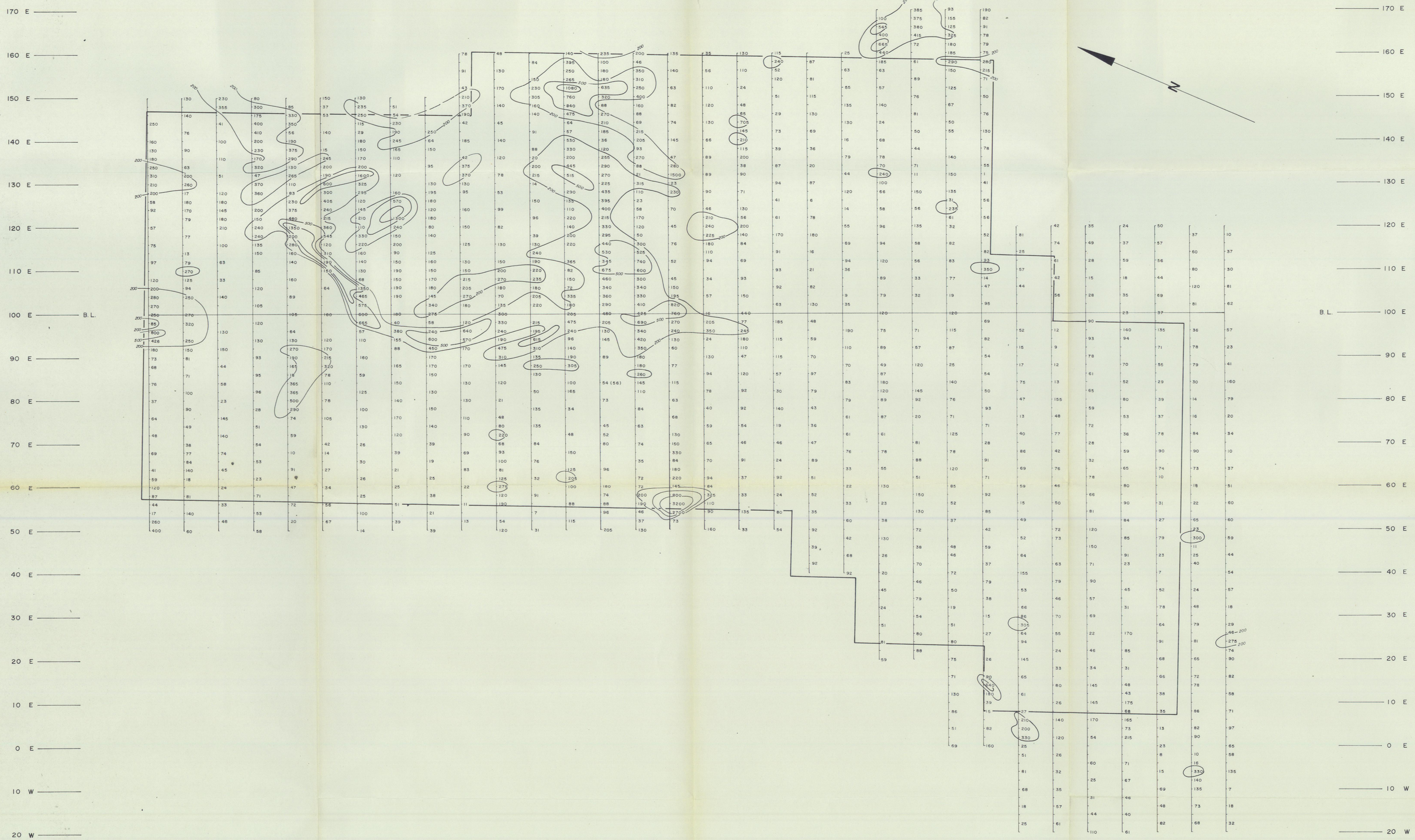
**SOIL GEOCHEMISTRY
 LEAD**

Scale: 1" = 1000'
 0 1000 2000 3000
 FEET

DRAWN BY: C. L. C. DATE: OCT. 1973

N. T. S. SHEET 105 K
MAP 2

HClO₄ extractable Pb in - 80
 mesh fraction of B horizon



RIDGEMONT MINING CORPORATION

ANVIL RANGE PROJECT
JAN CLAIMS

**SOIL GEOCHEMISTRY
ZINC**

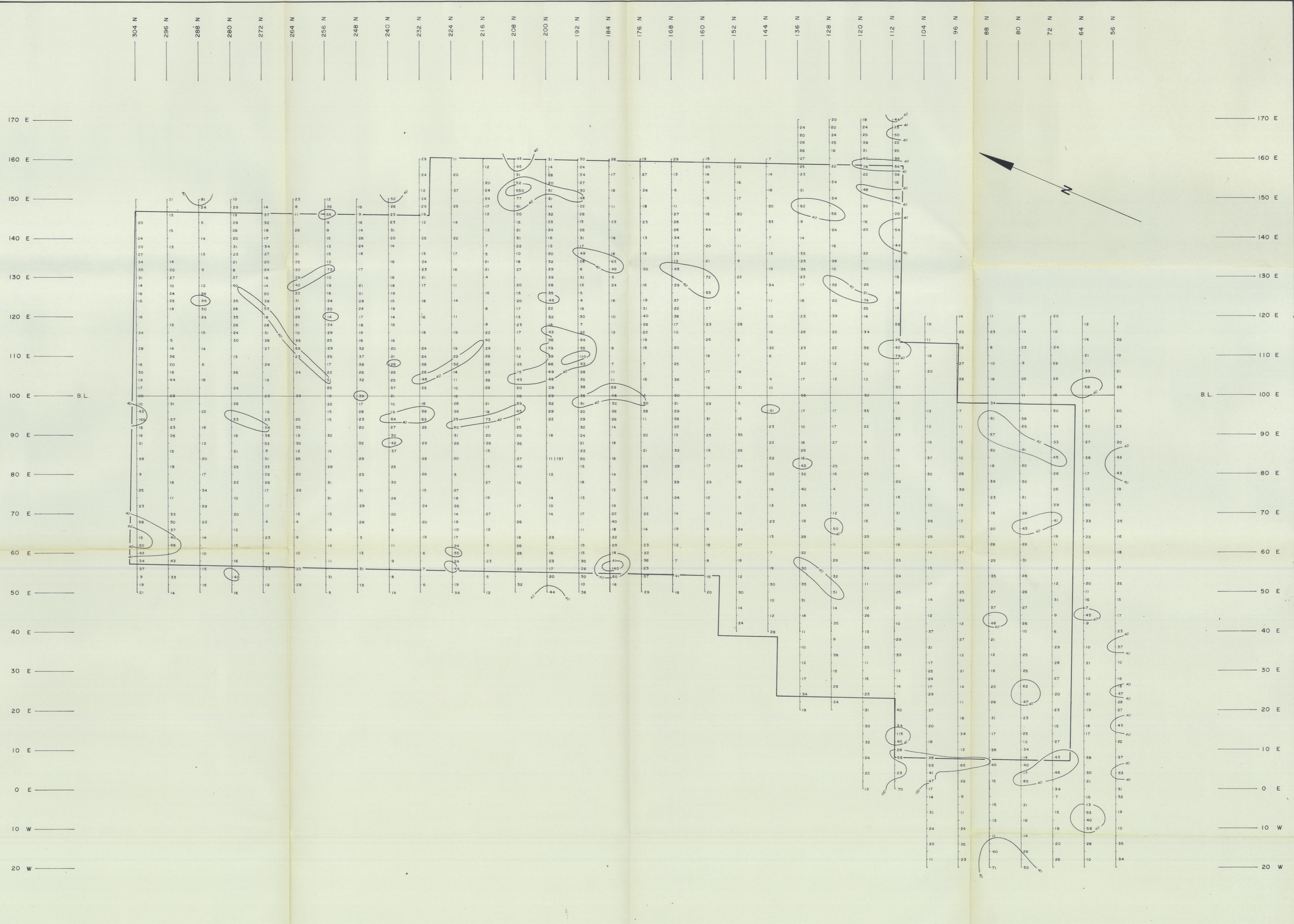
Scale: 1" = 1000'
0 1000 2000 3000
FEET

DRAWN BY: C. L. C. DATE: OCT 1973

N. T. S. SHEET 105 K
MAP 3

To accompany: A report on geochemical survey on Jan claims Feb. 1974 by G. A. Jilson B. Sc J. G. Simpson Ph. D., P. Eng.

HClO₄ extractable Zn in -80 mesh fraction of B horizon



To accompany: A report on geochemical survey on
 Jan claims Feb. 1974 by G. A. Jilson B. Sc.
 J. G. Simpson Ph. D., P. Eng.

304 N
296 N
288 N
280 N
272 N
264 N
256 N
248 N
240 N
232 N
224 N
216 N
208 N
200 N
192 N
184 N
176 N
168 N
160 N
152 N
144 N
136 N
128 N
120 N
112 N
104 N
96 N

HClO₄ extractable Cu in -80
 mesh fraction of B horizon

RIDGEMONT MINING CORPORATION

ANVIL RANGE PROJECT
 JAN CLAIMS

**SOIL GEOCHEMISTRY
 COPPER**

[Signature]

DRAWN BY: C. L. C. Scale: 1" = 1000'
 DATE: OCT. 1973 FEET

N. T. S. SHEET 105 K
MAP 4