

GRIDDING & GEOCHEMICAL REPORT

CLAIMS: Copket Group: Copket #1-9, David #1-6,  
Copket Frac., Copket #2 & #3 Fracs., M.L. 171.

Greenwood Mining Division.

NTS : Map 82-E-10W : Coords: N5499000m , E 369000m.

Lat. 49°38' . Long. W.118°49'.

Owners: F.B. Whiting and Orion Resources Ltd.

Operator: Orion Resources Ltd.

Consultants: G. Salazar & Associates.

Whiting Mining Services International Ltd.

Author of Report : F.B. Whiting, P.Eng.

FILMED

Date of Submission: August 3 , 1988.

LOG NO. 0113	RD. 1
ACTION: Date received report back from amendments	
FILE NO:	

LOG NO: 0818	RD.
ACTION:	
FILE NO:	

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GEOLOGICAL BRANCH  
ASSESSMENT REPORT

17,675

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~~In Pocket : Large copies of Figures 8, 9 & 10.~~

### A. INTRODUCTION

A soil sampling program was carried out in late 1987 on the Copket Group of mineral claims situated on Copperkettle Creek in the Greenwood Mining Division. The property is at N 49° 38' Latitude, W 118° 49' Longitude. Figure 1 is the Location Map. The centre of the claim block is near the confluence of Sandrift Creek with Copperkettle Creek, a tributary of the Kettle River.

Access is by logging road branching from the State Lake Forest Service Road which leaves the Monashee Highway 2 km north of Christian Valley. That logging road runs north through the claim block and then continues northwest along the south side of Copperkettle Creek for several kilometres.

### Property, History, Owner, & Economic Assessment

Figure 2 is the Claim Map. The property consists of :

<u>Claim Name</u>	<u>Rec. #</u>	<u>Current Expiry Date</u>	<u>Owner</u>
Copket #1-#6	4093-4098	July 11, 1991	F.B.Whiting
Copket #7-#8	4128-4129	Sept. 11, 1991	F.B.Whiting
Copket #9	5082	December 15, 1991	F.B.Whiting
Copket Fraction	4089 (7)	July 11, 1991	F.B.Whiting
Copket #2 Frac.	4130 (9)	Sept.11,1991	F.B.Whiting
Copket #3 Frac.	4131(9)	Sept.11, 1991	F.B.Whiting
David #1-#3	4090-93 (7)	July 11, 1991	Orion Res.Ltd.
David #4-#6	4125-27 (9)	Sept.11, 1991	Orion Resources Ltd.

The claims are shown on Map 82-E-10W.

The present claims were staked by F.B.Whiting in 1984. Previous work was done on the adjoining Lottie F and Sterlingtonham Fraction Crown Grants prior to 1915. In the 1960s, Asarco Exploration Company of Canada had an Induced



100 Km.

ORION RESOURCES LTD.

COPKET PROPERTY

LOCATION MAP

NTS: 82-E-10 W.  
Copperkettle Cr. Area  
Greenwood M.D.

FIG. 1

JULY '88

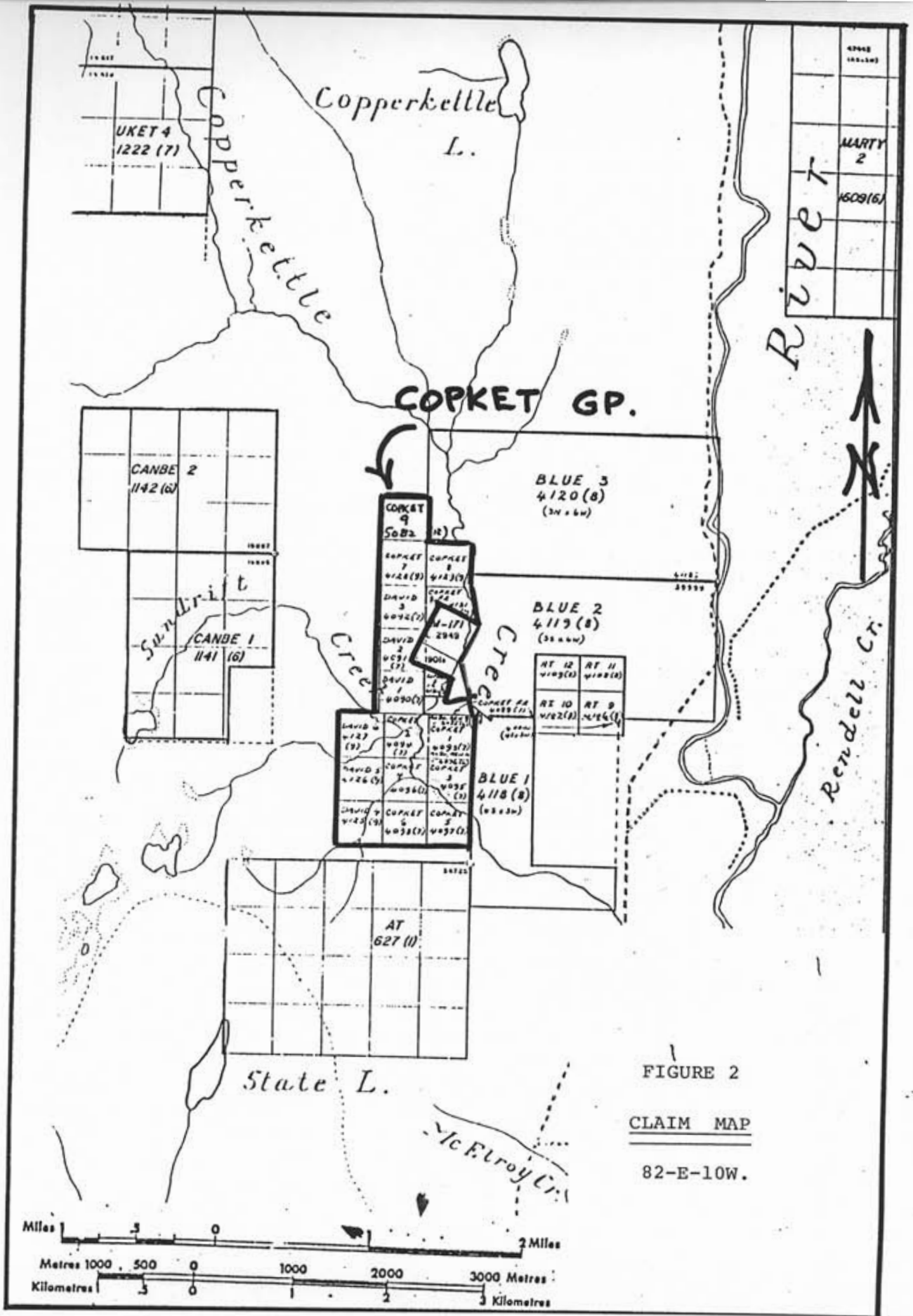


FIGURE 2

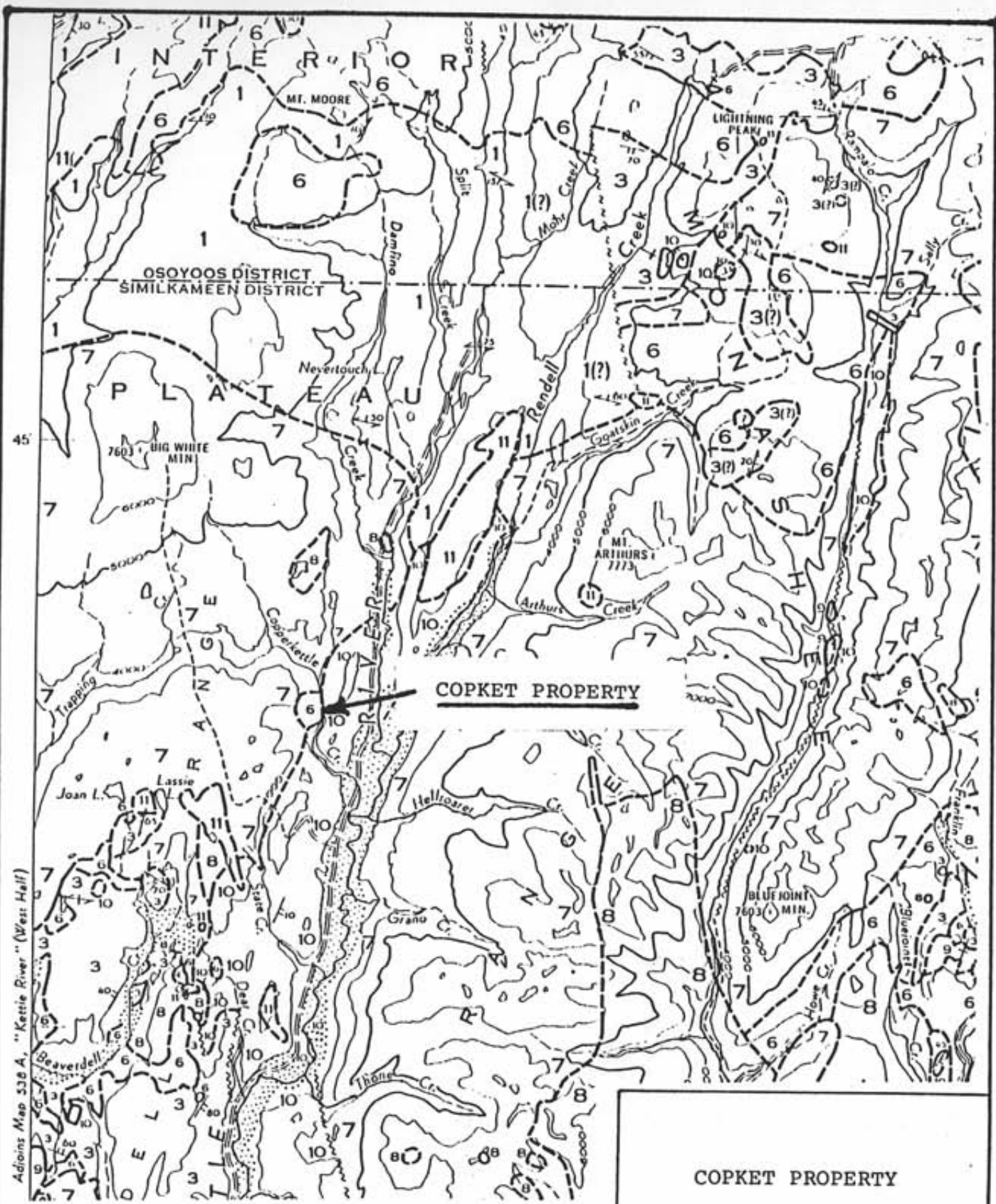
CLAIM MAP

82-E-10W.

Polarization survey done over what is now the Copket 1-6 and David 4-6 claims. In the 1970s Mitsui Mining Co. owned a large block of claims here and drilled three holes looking for uranium at the base of the Tertiary volcanics. One of those holes found small amounts of chalcopyrite, pyrite and galena in sheared, faulted Tertiary andesites, which led to the later staking by F.B. Whiting, hoping for an epithermal fault-related deposit. The Copket #7-9 were staked to cover possible extensions of the Lottie F copper-gold-silver-zinc mineralization. Orion Resources Ltd. purchased the David 1-6 claims in 1985 and did mapping and sampling in that year. Following a program of gridding and soil sampling in 1987 a Statement of Work was filed July 8, 1988 for work done at a cost of \$ 10562.85, with " Report to Follow " : this is that report.

The economic assessment of the Copket property must take into account the two types of mineralization which occur there. The oldest type is a contact metamorphic bornite/gold/silver/zinc mineralization apparently caused by the intrusion of Nelson Granite into Permian ( Triassic ? ) Anarchist limestones and clastic sediments. Upon this is superimposed a later Tertiary brecciation along a major NNE-trending regional fault, which added zinc and more copper with spotty gold and silver. The claims appear to have the potential for containing individual lenses or pods of fairly rich material distributed through a large body of lower-grade mineralization.

The Operator has been Whiting Mining Services International Ltd., acting for Orion Resources Ltd. and F.B. Whiting. The gridding and soil sampling was done by a sub-contractor, G.Salazar & Associates, of Calgary. Orion and Whiting obtained an option on the Lottie F and Sterlingtonham Fraction claims, forming M.L. 171.



Adjoins Map 538 A, "Kettle River" (West Half)

Source: GSC Map 6-1957 ( H.W. Little )

COPKET PROPERTY

REGIONAL GEOLOGY

NTS 82-E-10 W.

FIG. 3 July '88

0 5 Km

LEGEND

- CENOZOIC**
- TERTIARY  
MIOCENE(?)
- 11 Basalt, olivine basalt
- PALEOCENE OR EOCENE
- PHOENIX VOLCANIC GROUP
- 10 Andesite, trachyte; minor basalt; locally, interbedded tuff, shale, and/or siltstone
- 9 KETTLE RIVER FORMATION: rhyolite and dacite tuff; locally, conglomerate, sandstone, and shale; minor rhyolite flows and intrusive porphyritic rhyolite
- PALEOCENE(?)
- 8 CORYELL INTRUSIONS: syenite; monzonite, shonkinite and granite
- MESOZOIC**
- CRETACEOUS(?)  
LOWER CRETACEOUS(?)
- 7 VALHALLA INTRUSIONS: granite, porphyritic granite
- 6 NELSON INTRUSIONS: granodiorite, porphyritic granite; diorite, monzonite, quartz monzonite
- 5 Ultrabasic intrusions, serpentinite
- JURASSIC
- ROSSLAND GROUP
- 4 Andesite, latite; agglomerate and flow breccia; minor greywacke
- PALAEOZOIC**
- PERMIAN(?)
- ANARCHIST GROUP
- 3 Greenstone, greywacke, limestone; paragneiss
- PENNSYLVANIAN AND/OR PERMIAN
- 2 MOUNT ROBERTS FORMATION: greywacke, greenstone, limestone; paragneiss
- PROTEROZOIC (?)**
- 1 MONASHEE AND GRAND FORKS GROUPS  
Paragneiss; minor crystalline limestone and pegmatite

COPKET PROPERTY

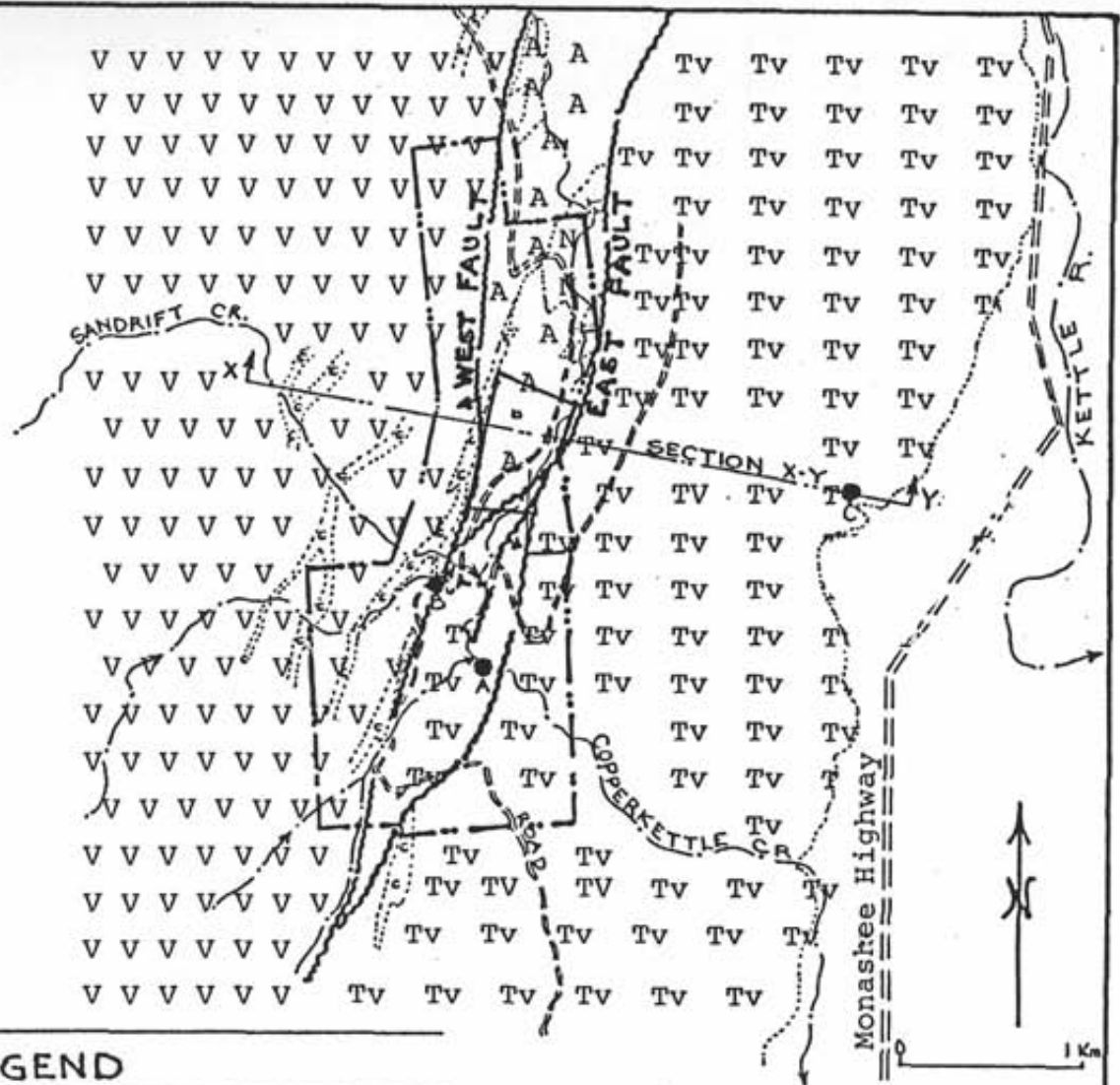
LEGEND

( For GSC Map 6-1957 )

FIG. 4

July. '88





**LEGEND**

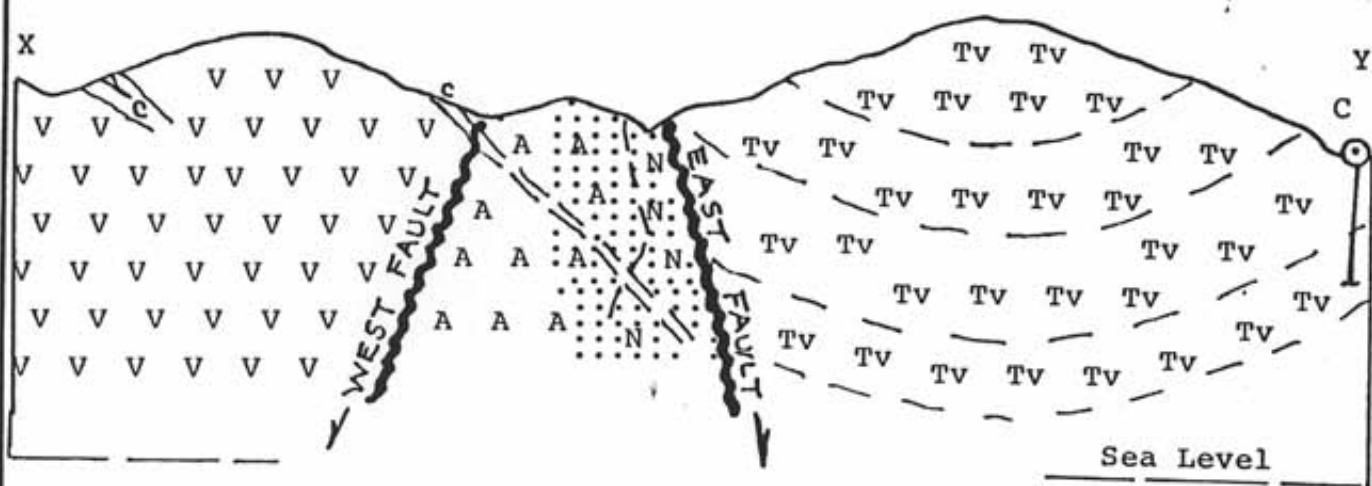
- c c c c c Coryell Dykes
- Tv Tv Tv Tertiary Phoenix Volcanics
- V V V V V Valhalla Intrusions
- N N N N N Nelson Intrusions
- A A A A A Anarchist Formstion
- · — · — Claim Boundary
- · — · — Creeks
- == == == Roads
- ~ ~ ~ ~ ~ Faults
- A Drillhole

COPKET PROPERTY

AREA GEOLOGY

NTS 82-E-10 West

FIG. 5 . July '88



LEGEND

- c c c c Coryell Dykes
- V V V V Valhalla Intrusions
- N N N N Nelson Intrusions
- Tv Tv Tv Phoenix Volcanics
- A A A A Anarchist Formation
- ..... Mineralization

ORION RESOURCES LTD.  
 COPKET PROPERTY  
 SECTION X - Y

FIG. 6 July '88



### Summary of Work Done

A North-South Baseline was put in, and 14 East-West cross lines, with pickets every 25 metres. A total of 355 samples were collected and assayed for gold and 31-element ICP analyses. The grid amounted to 2800 metres, which is in addition to an earlier grid of 8350 m for which a Statement of Exploration and Development was filed July 10, 1987. The grids covered most of the Copket 7 & 8, the three Copket Fractions, the David 1-3 and the two Crown Grants. Part of the first baseline crosses the Copket 1,2,4 and 6 M.Cs.

### B. REGIONAL GEOLOGY

Figure 3 is a print of part of Little's GSC Map 6-1957 " Kettle River, East Half ". Figure 4 is the Legend for that map. In detail the geology is more complex, and is shown on Figure 5. Permian ( Triassic ? ) Anarchist limestone, clastic sediments and greenstone are intruded by Late Mesozoic Nelson Granite. Valhalla Intrusions occur on the west side of a regional fault, and Tertiary Phoenix andesites east of a parallel split from the same fault. All rocks are cut by late Coryell dykes. The mineralized area lies mainly between the two branches of that regional fault, which may have a length of over 60 km and extend as far south as Conkle Lake.

### C. LOCAL GEOLOGY

Figure 6 shows the position of the Anarchist/ Nelson block between the two faults. Figure 7 shows the geology of the soil-sampled area.

#### D. GEOCHEMICAL SURVEY

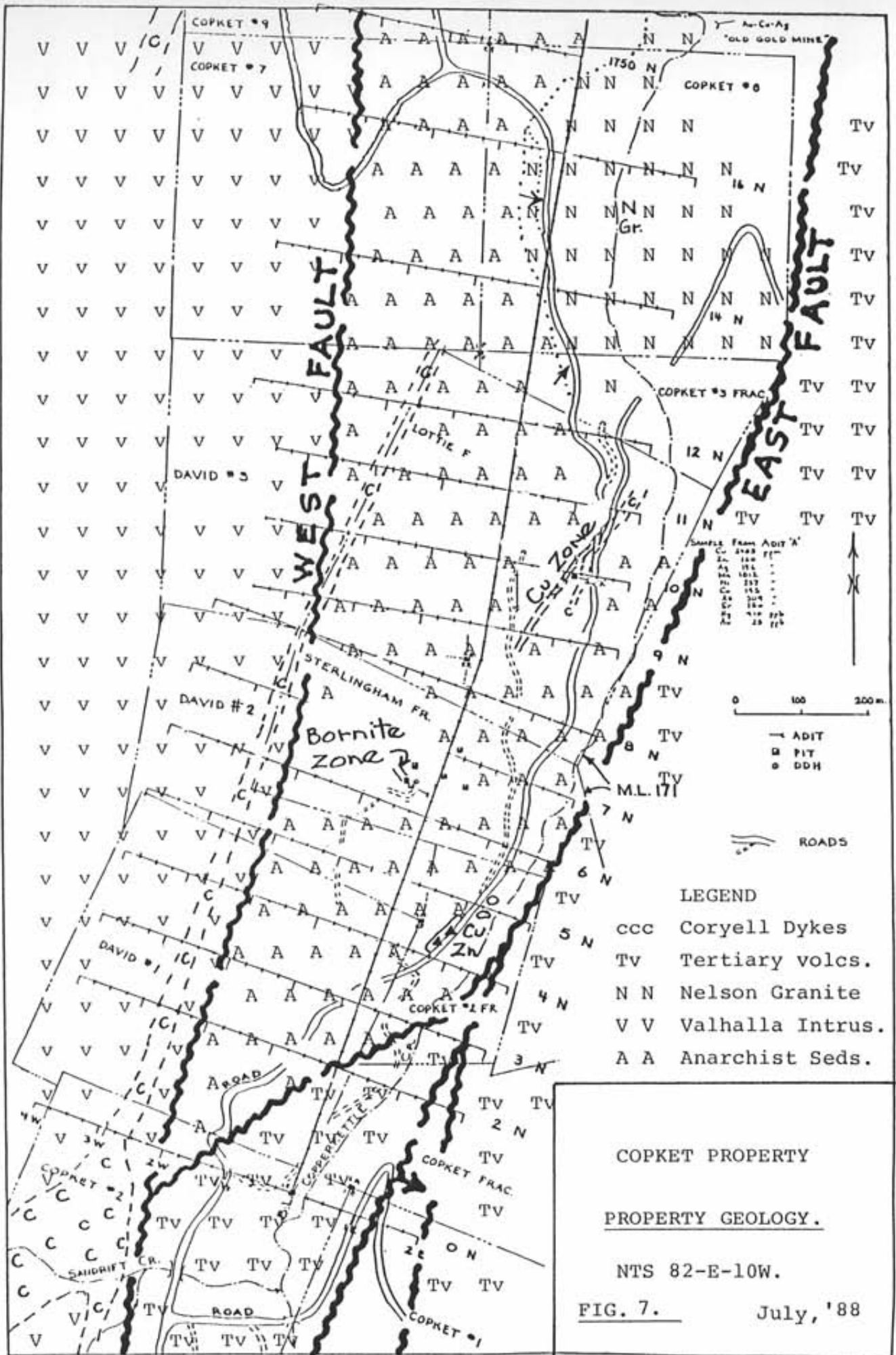
4.

The surveyed area covers 105 ha., being 1750 m long and generally 600 m wide. Samples were collected by experienced field crews under the supervision of G. Salazar, geologist, and F.B. Whiting, geological engineer and P.Eng (B.C.). The samples were taken from the "B" Horizon at a depth of 15-25 centimetres. The samples were collected by trowel from shallow pits dug by shovel and were put in paper sample bags. The samples were first sent to Loring Laboratories of Calgary where they were dried and seived to -80 mesh and then assayed for gold. The pulps were sent to Acme Analytical Laboratories Ltd. of Vancouver, B.C. where they were analysed by the 31-element ICP process : a 0.5 gram sample is digested with 3 ml of a 3-1-2 mixture of HCl-HNO<sub>3</sub>-H<sub>2</sub>O at 95°C for 1 hour, then diluted to 10 ml with water and the solution tested by the standard ICP procedure. Mercury was analysed by flameless atomic absorption. The 31-element list includes gold but gold was not reported by Acme Labs so the Loring Lab gold values were reported.

Values for copper, zinc, and gold/silver were plotted and contours for copper and zinc were drawn by F.Whiting. Several other elements of interest were plotted by computer by New Horizon Software - their plots for Arsenic, Barium, Cobalt, Copper, Lanthanum, Lead, Mercury, Nickel, Silver, Vanadium and Zinc are given in the Appendix, which also contains all of the Loring Lab gold assay reports and Acme Labs' 31-element ICP reports.

#### E. INTERPRETATION AND EVALUATION

The copper and zinc contoured plots show a strong coincident Cu-Zn anomaly in the east central part of the grid. Against a background of 40-100 ppm the zinc anomaly has numerous samples over 300 ppm and a maximum of 1474 ppm. Against a background of 12-80 ppm, the copper anomaly has numerous values over 300 ppm and a maximum of 1484 ppm. High



LEGEND

ccc Coryell Dykes  
 TV Tertiary volcs.  
 N N Nelson Granite  
 V V Valhalla Intrus.  
 A A Anarchist Seds.

COPKET PROPERTY

PROPERTY GEOLOGY.

NTS 82-E-10W.

FIG. 7. July, '88

values were found out to the easternmost sample locations, so that the anomaly is open for width extension there. To the northeast the anomaly is also open and appears to be heading towards an old gold showing located just outside of the claims. Scattered gold and silver highs were found coincident with the copper/zinc anomaly. The computer plots by New Horizon Software show coincident concentrations of arsenic, nickel and vanadium in this Cu-Zn anomaly. Figure 9 is the Cu map. Figure 10 shows the gold and silver analyses.

The zinc map, Figure 8, shows two weakly-anomalous areas on the western and northwestern sides of the base-line. The western area is 400 m long and 100-150 m wide, with values of up to 708 ppm Zn against a background of 60-95 ppm Zn. The northwestern area was seen mainly on the northernmost grid line, 1750 N, and is 125 m wide, open to the north; maximum Zn values reached 562 ppm Zn. Follow-up work is needed.

On the other New Horizon Software plots, barium concentrations were located at 400 N along the baseline and at 1000-1100 N on the baseline and just east of it. Cobalt is high at the last-mentioned site while lanthanum coincides with the southern site, where lead also show numerous highs. Mercury shows random high areas with a maximum of 400 ppb.


There are showings of bornite and malachite inside the Cu-Zn anomaly, but these do not account for all the high values obtained, as in several cases high metal contents were found in the soil well uphill from any known mineralization. The presence of gold-silver-copper off the northeast corner of the Copket Group, on strike from the Cu-Zn anomaly, suggests that there may be a mineralized zone some 1200 m long inside these claims, with a width of over 150 metres. This presents an attractive exploration target, on which geophysical surveys, bulldozer trenching and then drilling could be applied.

F. ITEMIZED COST STATEMENT

6.

<u>Item</u>	<u>Personnel</u>	<u>Amount</u>
Gridding	C.Grundstrom Nov.26/87 to Dec.2/87	
	7 days @ \$ 150/day.....	\$ 1050.00
	James Riley Nov.26/87 to Dec.2/87	
	7 days @ \$ 150/day.....	\$ 1050.00
	G.Salazar Dec.3/87 0.5 days @ \$350	\$ 175.00
	Vehicle expense.....	\$ 125.00
	Total Gridding Expense.....	\$ 2400.00 (a)
Soil Sampling	C. Grundstrom Dec.3/87 to Dec.7/87	
	5 days @ \$ 150.....	\$ 750.00
	James Riley Dec.2/87 to Dec.5/87	
	3 days @ \$ 150.....	\$ 450.00
	Pickup rental .....	\$ 475.00
	Field supplies.....	\$ 220.00
	Motel & meals.....	\$ 515.35
	Total Soil Sampling Expense.....	\$ 2410.35 (b)
Assaying	Loring Laboratories: 355 gold	
	assays \$.7.94/sample.....	\$ 2817.25
	Acme Laboratories 355 ICP @ \$	\$ 2935.25
	Total assaying cost.....	\$ 5752.50 (c)
TOTAL PROGRAM EXPENSE.....		<u><u><u>\$ 10,562.85</u></u></u>
a + b + c		

Respectfully submitted,

  
 \_\_\_\_\_  
 Francis B. Whiting P.Eng.


G. AUTHOR'S QUALIFICATIONS

7.

The undersigned, Francis B. Whiting, has the following qualifications:

- a) Graduate of Univ. of B.C., 1946, in Geological Engineering.  
Graduate of McGill University, 1948, as M.Sc., in Geology.  
Graduate of Mass. Institute of Technology, as Ph.D. in  
Geology and Economics, 1951.
  
- b) Geological work in B.C. in 1945 for International Mining  
Corp.  
Geological work in 1946 for Placer Development Co.  
Work at Hedley B.C. for Hedley Mascot Gold Mines, 1947  
& 1948.  
3 Years as Mine Geologist in Missouri for St. Joseph Lead Co.  
6 years as Chief Geologist at Mina Aguilar, Argentina.  
7 Years as Exploration Manager in Argentina for Cia. Minera  
Aguilar S.A. , 1960-68.  
5 Years as Manager of Arrow Inter-America Corporation , Vanc-  
ouver, B.C. 1968-73.  
3 Years as Regional Manager for Western North America for  
Brascan Resources Ltd., based in Vancouver B.C. 1973-76.  
11 Years as Consulting Geologist, Vancouver, B.C.
  
- c) P.Eng., B.C. & Yukon.

Signed:



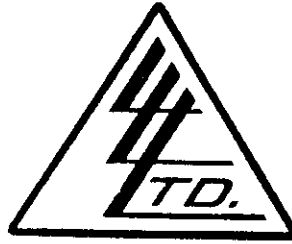
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Dr. F.B. Whiting, P.Eng.



APPENDIX

675 West Hastings Street,  
 Vancouver, B.C. V6B 4Z1  
 ATTN: Dr. Frank Whiting  
 cc: G. Salazar - Calgary



File No. 30450  
 Date October 8, 1987  
 Samples Rock

Certificate of  
**ASSAY**  
**LORING LABORATORIES LTD.**

Page # 1

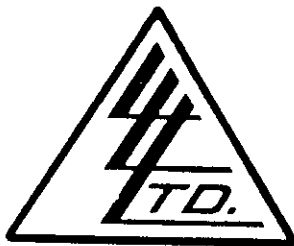
SAMPLE No.	OZ./TON GOLD
<p><u>"Assay Analysis"</u></p> <p>25178</p>	<p>.276</p>
<p><b>I Hereby Certify</b> THAT THE ABOVE RESULTS ARE THOSE                  ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .</p>	

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*D. Salazar*

Assayer

200, 675 West Hastings Street,  
 Vancouver, B.C. V6B 4Z1  
 ATTN: Dr. Frank Whiting  
 cc: G. Salazar - Calgary



File No. 30450  
 Date October 8, 1987  
 Samples Soil

**Certificate of  
 ASSAY of  
 LORING LABORATORIES LTD.**

Page # 2

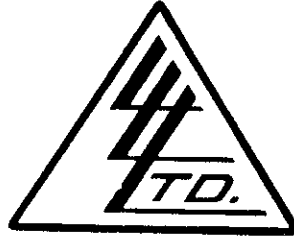
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<u>"Soil Samples"</u>	
<u>Geochemical Analysis</u>	
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5+50	NIL
5+75	NIL
6+25	NIL
6+50	NIL
6+75	NIL
7+25	NIL
7+50	NIL
7+75	NIL
8+25	NIL
8+50	NIL
8+75	NIL
9+25	NIL
9+50	NIL
10+25	NIL
10+50	NIL
10+75	20
11+25	NIL
11+50	NIL
11+75	5
4+00N-0+25 W	15
0+50	NIL
0+75	5
1+00	NIL
0+50 E	NIL
5+00N-0+25 W	5
0+50	NIL
0+75	NIL

**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*R. Robert*  
 Assayer

200, 675 West Hastings Street,  
 Vancouver, B.C. V6B 4Z1  
 ATTN: Dr. Frank Whiting  
 cc: G. Salazar - Calgary



File No. 30450  
 Date October 8, 1987  
 Samples Soil

Certificate of  
**ASSAY** of  
**LORING LABORATORIES LTD.**

Page # 3

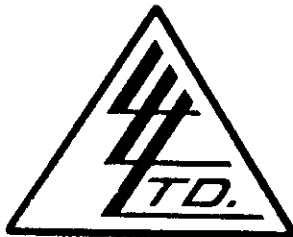
SAMPLE No.	PPB Au
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1+25	NIL
1+50	NIL
0+75 E	NIL
1+00 E	NIL
6+00N-BL	5
0+25 W	80
0+50 W	NIL
0+75 W	NIL
1+00 W	5
1+25 W	5
0+25 E	5
0+50 E	5
0+75 E	15
1+00 E	NIL
7+00N-BL	NIL
0+25 W	5
0+50	NIL
0+75	5
1+00	NIL
1+25	5
1+75	5
0+25 E	5
0+50	5
0+75	NIL
8+00N-BL	5
0+25 W	5
0+50	5
0+75	NIL
1+00	NIL
1+50	NIL

**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
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Assayer

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 cc: G. Salazar - Calgary



File No. 30450  
 Date October 8, 1987  
 Samples Soil

Certificate of  
**ASSAY** of  
**LORING LABORATORIES LTD.**

Page # 4

SAMPLE No.	PPB Au
8+00N-1+75 W	120
0+25 E	NIL
0+50	10
0+75	5
1+00	15
1+25	NIL
9+00N-BL	NIL
0+25 W	5
0+50	5
0+75	5
1+00	5
1+25	5
1+50	NIL
1+75	NIL
2+00	5
0+25 E	10
0+50	NIL
0+75	10
1+00	30
1+25	5
10+00N-BL	NIL
0+25 W	NIL
0+75	5
1+00	5
1+25	NIL
1+50	NIL
1+75	5
2+00	65
0+25 E	5
0+50	5
0+75	15

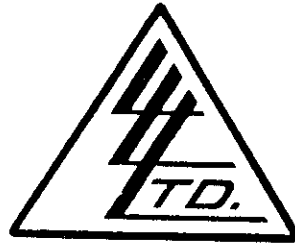
**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . .

Rejects Retained one month.  
 Pulp Retained one month  
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 made in advance.

*D. Salazar*

Assayer

200, 675 West Hastings Street,  
 Vancouver, B.C. V6B 4Z1  
 ATTN: Dr. Frank Whiting  
 cc: G. Salazar - Calgary



File No. 30450  
 Date October 8, 1987  
 Samples Soil

Certificate  
 ASSAY

LORING LABORATORIES LTD.

Page # 5

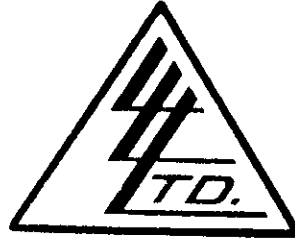
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10+00N-1+00 E	5
1+25	NIL
11+00N-BL	5
0+25 W	NIL
0+50	NIL
0+75	NIL
1+00	NIL
1+25	NIL
1+50	NIL
1+75	NIL
2+00	NIL
0+25 E	NIL
0+50	NIL
0+75	NIL
1+00	NIL
1+25	5
12+00N-BL	5
0+25 W	NIL
0+50	NIL
0+75	NIL
1+00	NIL
1+25	5
1+50	NIL
1+75	NIL
0+25 E	NIL
0+50	NIL
0+75	NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

Assayer

70, 675 West Hastings Street,  
vancouver, B.C. V6B 4Z1  
ATTN: Dr. Frank Whiting  
cc: G. Salazar - Calgary



File No. 30450  
Date October 8, 1987  
Samples Rock

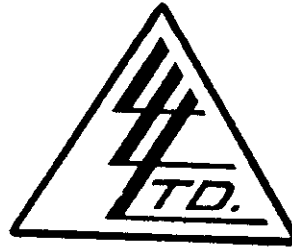
*Certificate of*  
**ASSAY of**  
**LORING LABORATORIES LTD.**

Page # 6

SAMPLE No.	PPB Au
<p><u>"Rock Samples"</u> Geochemical Analysis</p>	
25176	120
25177	20
25178	+1000
<p><b>I Hereby Certify</b> THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .</p>	

Rejects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

Assayer



File No. 30757  
 Date December 17, 198  
 Samples Soil  
 Project: Copket

Certificate of  
**ASSAY** of  
**LORING LABORATORIES LTD.**      8 1199.55

Page # 1

SAMPLE No.	PPB Au
<u>"Soil Samples"</u>	
Geochemical Analysis	
BL 0+25S	25
0+00N	15
0+25N	5
0+50N	NIL
0+75N	NIL
1+00N	5
1+25N	NIL
1+50N	NIL
1+75N	5
2+00N	5
2+25N	NIL
2+50N	NIL
2+75N	NIL
3+00N	5
3+25N	NIL
3+50N	NIL
3+75N	NIL
5+00N	15
0+00N 0+25W	5
0+50W	5
0+75W	NIL
1+00W	NIL
1+25W	NIL
1+50W	5
1+75W	10
2+00W	10
2+25W	5
2+50W	NIL

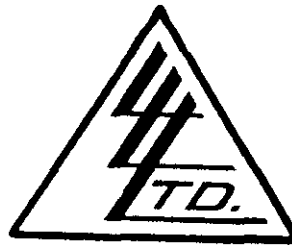
**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*D. Zolger*

Assayer





File No. 30757  
 Date December 17, 19  
 Samples Soil  
 Project: Copket

Certificate of  
 ASSAY of  
 LORING LABORATORIES LTD.

Page # 2

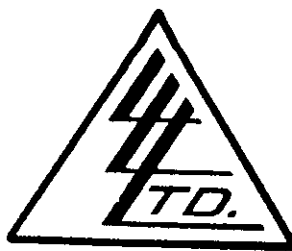
SAMPLE No.	PPB Au
0+00N 2+75W	NIL
3+00W	5
3+25W	NIL
3+50W	NIL
3+75W	NIL
4+00W	NIL
2+00N 0+25W	5
0+50W	10
0+75W	NIL
1+00W	NIL
1+25W	NIL
1+50W	NIL
1+75W	NIL
2+00W	NIL
2+25W	NIL
2+50W	NIL
2+75W	NIL
3+00W	NIL
3+25W	NIL
3+50W	NIL
3+75W	NIL
4+00W	NIL
3+00N 0+25W	NIL
0+50W	NIL
0+75W	NIL
1+50W	NIL
1+25W	NIL
2+00W	NIL
2+25W	NIL
2+50W	NIL
2+75W	NIL

**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*P. [Signature]*  
 Assaver



File No. 30757

Date December 17, 1987

Samples Soil

Project: Copket

Certificate of  
ASSAY of  
**LORING LABORATORIES LTD.**

Page # 3

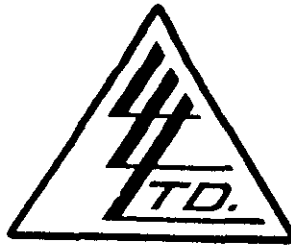
SAMPLE No.	PPB Au
3+00N 3+00W	NIL
3+25W	NIL
3+50W	NIL
3+75W	10
4+00W	5
4+00N 0+25W	10
0+50W	10
0+75W	10
1+00W	NIL
1+25W	10
1+75W	5
2+00W	5
2+25W	NIL
2+50W	5
2+75W	NIL
3+00W	NIL
3+25W	NIL
3+50W	NIL
3+75W	5
4+00W	15
5+00N 1+75W	5
2+00W	NIL
2+25W	NIL
2+50W	NIL
2+75W	NIL
3+00W	NIL
3+25W	15
3+50W	NIL
3+75W	NIL
4+00W	NIL
6+00N 1+50W	85

**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month  
unless specific arrangements  
made in advance.

Assaver



File No. 30757  
 Date December 17, 198  
 Samples Soil  
 Project: Copket

Certificate of  
**ASSAY** of  
**LORING LABORATORIES LTD.**

Page # 4

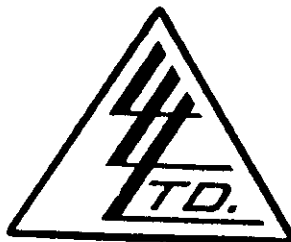
SAMPLE No.	PPB Au
6+00N 1+75W	NIL
2+00W	15
2+25W	5
2+50W	45
2+75W	NIL
3+00W	5
3+25W	NIL
3+75W	25
4+00W	10
7+00N 2+00W	NIL
2+25W	NIL
2+50W	NIL
2+75W	5
3+25W	NIL
4+00W	NIL
8+00N 1+75W	NIL
2+00W	NIL
2+25W	NIL
2+50W	NIL
2+75W	NIL
3+00W	NIL
3+25W	10
3+50W	5
3+75W	NIL
4+00W	NIL
9+00N 2+00W	15
2+25W	NIL
2+50W	NIL
2+75W	NIL
3+00W	NIL
3+25W	NIL

**I** **Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*P. [Signature]*

Assaver



File No. 30757  
 Date December 17, 1957  
 Samples Soil  
 Project: Copket

Certificate of  
**ASSAY** of  
**LORING LABORATORIES LTD.**

Page # 5

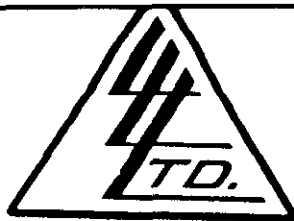
SAMPLE No.	PPB Au
9+00N 3+50W	NIL
10+00N 2+00W	NIL
2+25W	NIL
2+50W	NIL
2+75W	NIL
3+00W	NIL
3+25W	NIL

**I** Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*D. Zoller*

Assayer



File No. 30757  
Date December 17, 1987  
Samples Rock  
Project: Copket

*Certificate of*  
**ASSAY OF**  
**LORING LABORATORIES LTD.**

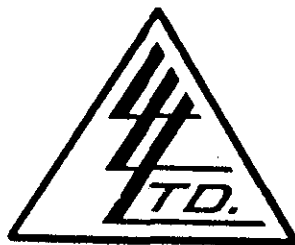
Page # 6

SAMPLE No.	PPB Au
<u>"Rock Samples"</u>	
Geochemical Analysis	
BL 4+00N	5
4+25N	5
4+50N	NIL
4+75N	NIL
3+00N 1+00W	NIL
1+25W	15
3+03W	20
4+00N 1+50W	NIL
6+00N 3+50W	480
7+00N 3+00W	375
3+25W	65
3+50W	45
3+75W	365
8+00N 2+55W	430
10+00N 3+50W	10
25179	30
25180	10
25181	50
25182	35

**I** *Hereby Certify* THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

Assayer



File No. 30775  
Date December 18, 1987  
Samples Rock

Invoice 30775  
\$ 713.10

Certificate of  
ASSAY of

LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	PPB Au
<p>"Rock Sample" Geochemical Analysis</p>	
<p>L10+00N 1+50 E ?</p>	<p>25</p>

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

Assayer



File No. 30775  
 Date December 18, 1987  
 Samples Soil

**Certificate of  
 ASSAY of  
 LORING LABORATORIES LTD.**

Page # 2

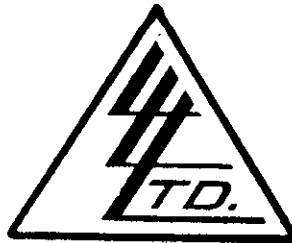
SAMPLE No.	PPB Au
<u>"Soil Samples"</u>	
Geochemical Analysis	
BL 12+25N	NIL -
12+50N	NIL -
12+75N	NIL -
13+00N	40 -
13+25N	NIL -
13+50N	NIL -
13+75N	NIL -
14+00N	NIL -
14+25N	NIL -
14+50N	35 -
14+75N	20 -
15+00N	NIL -
15+25N	NIL -
15+50N	NIL -
15+75N	NIL -
16+00N	5
16+25N	10
16+50N	NIL -
16+75N	NIL -
17+00N	NIL -
17+25N	NIL -
17+50N	5 -
11+00N 2+00W	5 -
2+25W	NIL -
2+50W	NIL -
2+75W	NIL -
11+00N 3+00W	NIL -
3+25W	5

**I Hereby Certify** THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulp Retained one month  
 unless specific arrangements  
 made in advance.

*[Handwritten Signature]*

Assayer



File No. 30775

Date December 18, 1987

Samples Soil

Certificate of ASSAY of LORING LABORATORIES LTD.

Page # 3

SAMPLE No.		PPB Au
11+00N	3+50W	NIL -
12+00N	2+00W	NIL -
	2+25W	5 -
	2+50W	5 -
	2+75W	NIL -
	3+00W	NIL -
	3+25W	NIL -
	3+50W	NIL -
	3+75W	NIL -
	4+00W	5 -
14+00N	0+25W	10 -
	0+50W	NIL -
	0+75W	NIL -
	1+00W	NIL -
	1+25W	NIL -
	1+50W	5 -
	1+75W	NIL -
	2+00W	5 -
	2+25W	NIL -
	2+50W	NIL -
	2+75W	NIL -
	3+00W	NIL -
	3+25W	NIL -
	3+50W	5 -
	3+75W	NIL -
	4+00W	NIL -
16+00N	0+50W	NIL -
	0+75W	NIL -
	1+00W	NIL -
	1+25W	5 -
	1+50W	NIL -

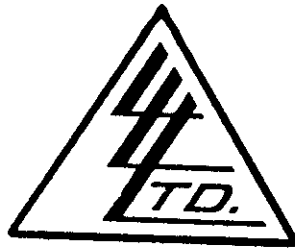
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month. Pulps Retained one month unless specific arrangements made in advance.

[Handwritten signature]

Assayer





File No. 30775  
Date December 18, 1987  
Samples Soil

**Certificate of  
ASSAY of  
LORING LABORATORIES LTD.**

Page # 4

SAMPLE No.	PPB Au
16+00N 1+75W	NIL-
2+00W	NIL-
2+25W	5-
2+50W	NIL-
2+75W	NIL-
3+00W	5-
3+25W	NIL-
3+50W	NIL-
3+75W	NIL-
4+00W	NIL-
17+50N 0+25W	NIL-
0+50W	5-
0+75W	10-
1+00W	5-
1+25W	NIL-
1+50W	NIL-
1+75W	NIL-
2+00W	NIL-
2+25W	NIL-
2+50W	5-
2+75W	NIL-
3+00W	NIL-
3+25W	NIL-
3+50W	NIL-
3+75W	NIL-
4+00W	NIL-

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ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .**

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Pulps Retained one month  
unless specific arrangements  
made in advance.

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 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 LA CR HG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: Pulp HG ANALYSIS BY FLAMELESS AA. *From Loring Labs*

DATE RECEIVED: SEPT 30 1987 DATE REPORT MAILED: *Oct 14/87* ASSAYER: *D. J. ...* DEAN TOYE, CERTIFIED B.C. ASSAYER

PROJECT-2037 File # 87-4638 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	#	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
30450 12+00N 1+75W	3	7	10	105	.1	3	3	839	1.33	6	5	ND	2	33	1	2	2	19	.22	.158	8	6	.11	109	.08	2	2.20	.02	.06	1	70
30450 12+00N 1+50W	2	27	12	122	.4	2	6	1051	2.74	4	5	ND	2	31	1	3	2	59	.37	.098	6	6	.28	137	.09	4	2.33	.02	.06	1	60
30450 12+00N 1+25W	2	17	16	161	.1	5	6	689	2.41	9	5	ND	3	25	1	2	2	38	.18	.218	9	13	.34	121	.11	2	3.46	.02	.04	1	50
30450 12+00N 1+00N	2	15	7	124	.1	4	8	334	2.91	2	5	ND	4	48	1	2	2	51	.37	.020	8	13	.64	81	.06	3	2.43	.02	.07	1	30
30450 12+00N 0+75W	1	13	11	147	.1	4	6	322	2.31	2	5	ND	4	43	1	2	2	36	.23	.080	10	10	.37	123	.08	3	2.29	.02	.07	1	20
30450 12+00N 0+50W	2	13	11	111	.1	3	6	476	2.42	4	5	ND	2	31	1	2	2	41	.21	.149	6	12	.43	96	.06	5	1.89	.02	.05	1	70
30450 12+00N 0+25W	2	10	12	53	.1	3	5	273	2.07	4	5	ND	2	41	1	2	2	36	.31	.010	6	10	.36	88	.06	5	1.90	.02	.05	1	30
30450 12+00N BL	2	28	18	89	.4	8	7	348	2.84	6	9	ND	9	68	1	2	2	38	.43	.034	34	14	.42	159	.11	4	3.99	.03	.08	1	60
30450 12+00N 0+25E	2	16	17	74	.1	4	5	452	2.23	2	5	ND	3	37	1	2	2	36	.24	.123	9	11	.26	106	.10	5	2.52	.02	.06	1	50
30450 12+00N 0+50E	3	11	17	58	.1	2	3	190	1.65	5	5	ND	2	23	1	2	2	21	.21	.193	5	7	.10	78	.10	2	3.21	.02	.03	1	80
30450 12+00N 0+75E	4	19	7	60	.1	2	4	229	2.11	4	5	ND	3	18	1	2	2	30	.08	.248	21	7	.22	58	.06	3	2.76	.02	.05	1	50
30450 11+00N 2+00W	2	12	9	109	.1	6	3	606	1.72	5	5	ND	3	26	1	2	2	24	.16	.208	8	8	.13	141	.11	4	3.21	.02	.05	1	40
30450 11+00N 1+75W	2	7	5	104	.2	4	3	888	1.45	3	5	ND	2	48	1	2	2	22	.34	.177	11	7	.14	129	.09	6	2.43	.02	.05	1	50
30450 11+00N 1+50W	1	17	9	76	.1	4	6	335	2.53	2	5	ND	6	33	1	2	5	47	.22	.054	14	19	.62	76	.06	2	1.82	.01	.08	1	30
30450 11+00N 1+25W	5	40	15	87	.5	10	6	450	2.74	3	23	ND	11	72	1	2	3	40	.51	.022	67	19	.41	107	.11	5	3.67	.03	.09	1	60
30450 11+00N 1+00W	4	12	12	103	.1	4	3	1000	3.69	8	5	ND	2	25	1	2	2	25	.19	.108	7	7	.15	128	.11	3	3.06	.02	.05	1	80
30450 11+00N 0+75W	5	75	19	62	.4	8	5	446	2.68	10	5	ND	5	65	1	2	3	42	.48	.033	21	14	.34	164	.10	2	4.18	.02	.06	1	70
30450 11+00N 0+50W	2	5	12	81	.1	5	4	692	2.03	4	5	ND	1	55	1	2	2	32	.21	.053	4	8	.38	143	.05	2	2.09	.01	.08	1	40
30450 11+00N 0+25W	1	9	12	85	.1	8	6	506	2.57	2	5	ND	2	47	1	2	2	42	.21	.033	4	14	.51	120	.05	2	2.25	.01	.05	1	30
30450 11+00N BL	3	14	12	111	.1	11	9	731	2.62	3	5	ND	2	30	1	2	2	37	.26	.079	5	11	.61	193	.11	7	3.46	.02	.08	1	70
30450 11+00N 0+25E	2	11	10	109	.1	8	3	624	1.76	3	5	ND	2	26	1	2	2	25	.16	.209	8	8	.14	144	.11	2	3.30	.02	.05	1	40
30450 11+00N 0+50E	1	250	15	71	.1	11	14	443	3.92	6	5	ND	4	46	1	2	4	43	.21	.067	10	17	.76	150	.12	3	3.23	.01	.06	1	30
30450 11+00N 0+75E	3	58	11	192	.2	7	10	1666	2.92	5	5	ND	2	42	1	2	3	46	.38	.056	9	12	.59	254	.09	6	2.79	.02	.11	1	40
30450 11+00N 1+00E	4	109	9	112	.1	7	18	961	4.28	2	5	ND	2	95	1	2	6	77	.56	.042	6	12	1.10	204	.06	2	3.65	.01	.11	1	50
30450 11+00N 1+25E	2	334	12	114	.2	10	16	993	4.27	8	5	ND	3	70	1	2	4	66	.33	.046	6	14	1.10	220	.07	6	4.15	.01	.11	1	60
30450 10+00N 2+00W	6	9	15	86	.1	6	3	466	1.65	5	5	ND	2	27	1	2	2	21	.16	.189	6	7	.10	185	.12	4	3.77	.02	.05	1	40
30450 10+00N 1+75W	4	11	7	71	.1	5	3	253	1.71	2	5	ND	3	26	1	2	2	24	.17	.138	7	8	.12	109	.11	5	3.22	.03	.03	1	40
30450 10+00N 1+50W	4	14	10	71	.1	7	4	370	2.07	2	5	ND	4	32	1	2	2	31	.21	.134	10	12	.20	147	.11	8	3.30	.02	.07	1	50
30450 10+00N 1+25W	4	14	5	56	.1	7	4	415	1.90	6	5	ND	3	25	1	2	2	27	.16	.107	5	10	.22	135	.11	2	3.58	.02	.04	1	50
30450 10+00N 1+00W	5	14	8	53	.1	8	4	688	1.88	3	5	ND	3	20	1	2	2	26	.15	.138	5	9	.19	103	.12	7	4.07	.02	.03	1	60
30450 10+00N 0+75W	2	15	9	74	.1	10	4	333	2.27	5	5	ND	3	24	1	2	2	33	.18	.175	5	14	.34	150	.11	6	3.61	.02	.05	1	50
30450 10+00N 0+25W	2	32	12	50	.1	5	4	352	1.70	2	5	ND	1	33	1	2	2	42	.28	.039	6	11	.55	63	.06	2	1.61	.01	.04	1	30
30450 10+00N BL	1	42	6	69	.1	12	7	238	1.99	2	5	ND	1	29	1	2	2	28	.20	.044	3	10	.38	88	.06	2	2.05	.01	.06	1	20
30450 10+00N 0+25E	2	16	16	70	.2	10	4	629	2.02	2	5	ND	4	19	1	4	2	29	.14	.189	10	10	.18	147	.13	4	3.98	.02	.04	1	70
30450 10+00N 0+50E	2	192	14	143	.4	24	10	636	2.43	7	5	ND	5	18	1	2	2	31	.29	.126	7	12	.21	128	.12	5	3.41	.02	.05	1	60
30450 10+00N 0+75E	7	676	16	288	.6	55	18	798	3.69	33	5	ND	3	49	1	2	2	57	2.06	.083	17	20	.31	39	.05	10	1.58	.01	.04	1	20
STD C	19	61	38	130	7.4	69	29	1046	4.07	41	18	8	39	51	18	17	20	57	.48	.090	39	61	.91	179	.07	38	1.89	.06	.14	12	1300

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CB	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	M	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
30450 10+30N 1+00E	4	736	12	525	2.3	98	8	696	3.39	50	5	ND	4	36	1	5	2	36	1.81	.142	10	13	.25	99	.10	56	2.91	.02	.08	2	50
30450 10+00N 1+25E	2	85	10	208	.1	21	4	685	2.53	31	5	ND	16	45	1	2	2	35	3.24	.192	47	12	.20	23	.05	25	1.53	.01	.05	1	20
30450 9+00N 2+00N	2	7	6	150	.1	1	2	591	1.21	2	5	ND	1	21	1	2	4	23	.16	.069	7	8	.15	103	.08	3	.92	.02	.07	1	30
30450 9+00N 1+75W	1	5	2	89	.1	3	3	610	1.56	3	5	ND	2	16	1	2	2	24	.12	.109	7	8	.14	121	.08	2	1.62	.02	.04	1	40
30450 9+00N 1+50W	2	12	7	97	.1	3	3	1253	1.58	5	5	ND	2	17	1	3	2	23	.14	.165	5	7	.14	145	.10	7	2.61	.02	.04	1	50
30450 9+00N 1+25W	1	23	12	45	.1	6	6	214	2.26	2	5	ND	6	50	1	2	2	36	.40	.012	21	19	.55	108	.07	4	2.75	.04	.03	3	90
30450 9+00N 1+00W	3	30	8	91	.1	8	5	717	2.15	3	5	ND	3	17	1	2	2	30	.13	.157	5	7	.27	127	.12	5	3.86	.02	.03	1	50
30450 9+00N 0+75W	2	188	6	132	.2	6	5	795	2.11	3	5	ND	3	22	1	2	2	34	.17	.147	6	10	.32	157	.11	2	3.21	.02	.06	1	50
30450 9+00N 0+50W	1	27	5	94	.1	3	12	823	3.92	5	5	ND	3	72	1	2	5	69	.58	.047	5	12	1.80	60	.10	3	3.45	.01	.04	1	40
30450 9+00N 0+25W	2	68	9	139	.3	15	15	701	4.35	5	5	ND	3	67	1	3	2	78	.33	.135	6	22	.99	107	.11	7	2.84	.01	.07	1	50
30450 9+00N BL	4	180	5	150	.4	26	8	732	2.67	6	5	ND	3	44	1	2	3	54	.43	.088	6	22	.46	135	.08	5	2.98	.01	.06	1	30
30450 9+00N 0+25E	4	232	3	145	.4	22	4	1007	3.19	14	5	ND	1	43	1	2	2	65	3.90	.038	7	10	.07	79	.04	3	1.29	.01	.03	5	20
30450 9+00N 0+30E	7	829	11	127	.6	25	10	597	3.13	14	5	ND	6	68	1	2	2	58	1.21	.102	13	17	.36	88	.10	9	2.61	.02	.06	1	40
30450 9+00N 0+75E	1	1395	10	165	1.4	24	4	996	2.14	14	5	ND	1	39	1	2	2	61	1.49	.124	10	12	.24	106	.10	9	2.33	.02	.04	1	60
30450 9+00N 1+00E	1	430	10	394	.1	53	7	339	2.42	19	5	ND	3	59	1	2	2	50	1.64	.052	6	11	.29	131	.10	15	2.65	.02	.05	1	30
30450 8+00N 1+25E	1	152	14	196	.3	23	9	558	2.86	10	5	ND	3	128	1	2	2	47	1.64	.044	7	18	.31	88	.05	8	1.88	.01	.06	1	50
30450 8+00N 1+75W	1	32	11	158	.1	6	6	701	2.32	2	5	ND	2	46	1	2	3	41	.20	.098	6	11	.38	125	.09	3	2.28	.02	.05	1	40
30450 8+00N 1+50W	4	17	8	81	.1	6	6	273	2.37	2	5	ND	2	28	1	2	3	39	.19	.047	5	19	.46	83	.07	4	2.53	.02	.06	1	30
30450 8+00N 1+00W	1	101	8	44	.1	8	5	230	1.90	7	5	ND	3	31	1	2	4	26	.22	.112	9	7	.19	138	.11	2	4.21	.03	.04	2	40
30450 8+00N 0+75W	3	66	11	62	.1	9	4	405	1.76	2	5	ND	2	18	1	2	2	25	.15	.148	5	8	.19	93	.10	2	3.41	.02	.04	1	40
30450 8+00N 0+50W	2	22	5	95	.1	12	4	1113	1.93	6	5	ND	3	22	1	2	2	27	.22	.108	7	8	.20	142	.08	2	2.55	.02	.06	1	50
30450 8+00N 0+25W	2	677	11	223	.3	110	7	1415	5.34	25	5	ND	2	31	1	2	2	74	4.25	.090	4	16	.50	157	.10	5	3.23	.01	.04	2	20
30450 8+00N BL	5	37	7	413	.4	50	4	231	1.69	14	5	ND	3	15	1	2	2	53	.21	.102	7	15	.12	103	.11	2	2.65	.02	.04	1	50
30450 8+00N 0+25E	1	271	8	311	.7	26	5	479	2.58	4	5	ND	3	57	1	2	2	82	1.43	.065	8	14	.23	90	.08	3	2.58	.02	.05	1	30
30450 8+00N 0+50E	2	83	16	985	.5	31	4	519	1.97	11	5	ND	3	32	6	2	2	46	.91	.168	8	12	.16	145	.11	6	2.87	.03	.04	1	20
30450 8+00N 0+75E	1	31	13	490	.1	15	3	418	1.90	5	5	ND	4	40	1	2	2	36	.65	.042	10	18	.24	113	.11	5	2.19	.02	.07	1	20
30450 8+00N 1+00E	3	1078	9	1474	1.7	38	7	1764	3.26	20	5	ND	4	103	6	3	2	77	4.31	.049	16	25	.28	49	.08	34	1.80	.01	.07	1	30
30450 8+00N 1+25E	1	174	7	364	.2	24	6	724	2.72	5	5	ND	4	60	1	2	2	47	1.36	.026	9	25	.34	42	.10	6	2.18	.01	.09	1	20
30450 7+00N 1+75W	2	11	12	154	.1	6	4	587	1.51	3	5	ND	3	36	1	2	2	21	.25	.156	9	8	.17	150	.09	2	2.20	.02	.07	1	40
30450 7+00N 1+25W	1	41	9	71	.1	7	5	453	2.26	4	5	ND	4	33	1	2	2	37	.25	.074	9	11	.37	164	.10	2	3.09	.03	.06	1	30
30450 7+00N 1+00W	1	52	10	78	.3	8	9	550	3.35	4	5	ND	3	67	1	2	2	65	.61	.085	10	16	.83	90	.05	2	3.34	.01	.05	1	30
30450 7+00N 0+75W	4	85	9	35	.1	8	2	64	1.61	4	5	ND	2	32	1	2	2	29	.31	.018	14	8	.16	83	.03	3	2.02	.01	.02	1	20
30450 7+00N 0+50W	3	47	15	153	.3	36	4	474	2.08	16	5	ND	2	22	1	3	2	28	.20	.172	6	13	.20	103	.12	5	3.88	.02	.04	1	40
30450 7+00N 0+25W	2	231	5	576	.6	31	4	535	1.72	5	5	ND	3	28	2	2	2	33	.64	.172	9	12	.13	103	.11	3	3.16	.03	.05	1	30
30450 7+00N BL	2	110	7	660	.2	22	4	572	1.66	8	5	ND	3	26	2	2	2	31	.69	.140	6	10	.17	130	.10	8	2.73	.02	.04	1	30
30450 7+00N 0+25E	1	223	11	998	.1	26	5	1097	2.45	6	5	ND	3	45	1	2	2	62	2.15	.022	10	17	.27	102	.11	18	2.78	.02	.06	1	20
STB C	19	62	44	132	7.4	70	28	1184	4.24	42	18	8	39	52	19	18	19	59	.50	.089	39	63	.90	180	.07	30	1.87	.06	.14	12	1306

A-18

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	M	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
30450 7+00N 0+50E	1	301	12	437	.2	47	6	257	3.01	2	5	ND	7	33	1	2	2	54	.79	.072	10	22	.22	126	.10	10	2.55	.02	.05	1	10
30450 7+00N 0+75E	1	494	16	283	.3	44	11	644	2.99	8	5	ND	3	94	1	2	2	31	1.50	.058	10	24	.36	79	.06	11	2.10	.01	.07	1	30
30450 6+00N 1+25W	1	21	9	108	.1	3	5	515	1.62	2	5	ND	4	36	1	2	2	32	.26	.111	8	11	.33	92	.06	8	1.55	.02	.05	1	40
30450 6+00N 1+00M	1	29	9	64	.2	2	4	313	1.42	6	5	ND	2	26	1	2	2	21	.21	.169	5	4	.15	111	.07	6	2.07	.02	.03	1	30
30450 6+00N 0+75W	1	24	9	101	.1	5	5	442	2.32	4	5	ND	3	95	1	2	2	40	.27	.057	9	15	.28	105	.08	3	1.98	.01	.04	1	20
30450 6+00 0+50W	7	53	3	84	.3	11	5	166	2.60	2	5	ND	4	131	1	2	2	36	.39	.274	9	16	.28	105	.08	3	1.98	.01	.05	1	30
30450 6+00N 0+25W	1	1484	11	121	.5	23	8	668	2.44	3	5	ND	3	86	1	2	2	51	1.44	.121	12	15	.46	53	.06	9	1.64	.01	.03	1	30
30450 6+00N BL	1	782	14	270	.7	34	3	327	1.90	7	5	ND	4	29	1	2	2	38	.84	.141	6	12	.22	152	.10	10	2.85	.02	.05	1	50
30450 6+00N 0+25E	1	219	10	216	.2	49	6	231	1.85	6	5	ND	3	26	1	2	2	31	.58	.060	7	16	.22	113	.10	10	2.48	.02	.05	1	40
30450 6+00N 0+50E	1	199	12	207	.1	38	7	263	2.58	2	5	ND	2	53	1	2	2	52	1.51	.042	7	35	.16	62	.07	10	2.05	.02	.08	1	20
30450 6+00N 0+75E	1	1270	7	1047	.9	25	6	1392	1.97	13	5	ND	1	43	6	2	2	69	4.80	.043	8	14	.15	23	.04	18	1.05	.01	.02	1	10
30450 6+00N 1+00E	1	231	11	197	.1	33	9	1095	3.23	2	5	ND	2	68	1	2	2	50	1.30	.050	9	34	.49	98	.08	12	2.54	.02	.13	1	30
30450 5+00N 1+50W	2	11	11	144	.1	4	3	509	1.42	2	5	ND	2	41	1	2	2	23	.31	.069	7	8	.18	127	.07	6	1.38	.02	.07	1	40
30450 5+00N 1+25W	2	12	7	69	.1	5	5	334	2.20	4	5	ND	6	30	1	2	2	42	.21	.047	11	15	.32	54	.07	6	1.05	.01	.07	1	40
30450 5+00N 1+00M	2	45	13	75	.1	7	8	388	3.27	2	5	ND	5	179	1	2	2	56	.60	.055	24	18	.81	112	.13	5	3.36	.02	.12	1	20
30450 5+00N 0+75W	1	40	19	101	.1	9	8	450	2.98	2	5	ND	4	171	1	2	2	49	.64	.087	18	21	.73	115	.12	8	3.05	.02	.08	1	30
30450 5+00N 0+50W	1	92	13	109	.2	10	5	531	2.41	2	5	ND	4	140	1	2	2	45	.81	.044	14	16	.31	122	.10	8	2.30	.01	.06	1	30
30450 5+00N 0+25W	1	32	10	60	.1	5	4	548	2.00	2	5	ND	2	224	1	2	2	39	.51	.022	12	15	.30	118	.09	5	1.84	.01	.05	1	50
30450 5+00N 0+75E	1	120	12	70	.1	25	8	526	2.67	4	5	ND	3	53	1	2	2	47	.51	.031	11	26	.45	87	.08	4	2.16	.01	.16	1	30
30450 5+00N 1+00E	2	132	12	119	.3	32	9	614	3.01	5	5	ND	4	70	1	2	2	47	.55	.076	9	26	.54	169	.08	6	2.94	.02	.10	1	30
30450 4+00N 1+00M	2	26	16	86	.5	7	5	473	2.20	2	5	ND	7	85	1	2	2	32	.54	.065	26	10	.33	79	.12	7	2.39	.03	.08	1	40
30450 4+00N 0+75W	4	51	24	178	.1	37	13	520	3.69	8	5	ND	5	42	1	3	2	49	.39	.099	11	23	.73	103	.08	7	2.91	.02	.10	1	40
30450 4+00N 0+50W	1	15	15	93	.5	8	3	444	1.77	2	5	ND	3	50	1	2	2	27	.40	.048	8	9	.41	101	.07	4	2.14	.02	.09	1	30
30450 4+00N 0+25W	1	26	10	84	.1	9	5	278	2.09	2	5	ND	4	143	1	2	2	32	.63	.057	16	12	.33	134	.10	7	2.32	.02	.07	1	20
30450 4+00N 0+50E	1	36	16	110	.2	11	4	274	1.77	4	5	ND	6	37	1	2	2	25	.26	.080	14	13	.24	194	.10	6	2.45	.02	.08	1	40
30450 BL 11+75W	2	20	8	31	.2	4	4	665	1.64	5	5	ND	4	13	1	3	2	24	.07	.169	8	6	.11	70	.12	7	3.90	.02	.03	2	60
30450 BL 11+50W	2	12	11	85	.1	5	4	730	1.76	2	5	ND	3	16	1	2	2	25	.11	.210	4	8	.13	109	.10	3	2.82	.02	.03	1	60
30450 BL 11+25W	4	43	11	68	.3	11	7	328	2.54	5	5	ND	4	25	1	2	2	34	.20	.081	5	9	.47	184	.08	2	3.38	.02	.06	1	40
30450 BL 10+75W	2	65	14	125	.1	7	18	2016	3.94	3	5	ND	2	49	1	2	2	61	.42	.085	5	16	1.04	223	.05	4	2.10	.01	.09	1	50
30450 BL 10+50W	2	25	9	46	.2	6	5	196	2.16	2	5	ND	3	29	1	2	2	28	.20	.078	6	8	.26	91	.09	7	2.80	.02	.04	1	40
30450 BL 10+25W	2	115	16	73	.1	11	10	382	3.29	2	5	ND	5	36	1	2	2	52	.21	.038	5	15	.67	238	.11	6	3.09	.01	.08	1	20
30450 BL 9+50W	1	31	12	64	.1	8	7	561	2.76	6	5	ND	3	32	1	3	2	45	.18	.063	8	13	.46	113	.07	5	2.12	.01	.05	1	30
30450 BL 9+25W	3	108	12	91	.1	9	9	790	3.41	3	5	ND	4	25	1	2	2	54	.17	.048	6	14	.61	170	.10	11	2.96	.01	.06	1	50
30450 BL 8+75W	3	182	11	189	.7	50	6	589	1.85	10	5	ND	2	31	1	2	2	44	.41	.090	4	27	.27	104	.06	6	1.80	.01	.03	1	40
30450 BL 8+50W	2	138	16	79	.4	35	5	248	1.97	4	5	ND	3	37	1	2	2	31	.24	.030	11	18	.28	176	.07	3	2.52	.02	.05	1	20
30450 BL 8+25W	1	14	17	79	.1	7	4	221	2.27	9	5	ND	5	29	1	2	2	35	.17	.158	22	11	.24	96	.11	8	3.45	.02	.07	1	80
STD C	19	60	42	135	7.3	69	29	1034	4.10	40	20	8	40	51	18	18	20	57	.49	.086	38	61	.92	178	.06	36	1.81	.06	.14	12	1300

b1-A-19

SAMPLED	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	MO	TH	SR	CB	SB	BI	V	CA	P	LA	CR	MG	BA	TI	S	AL	NA	K	V	MG
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	%	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	%	%	PPH	PPH	%	PPH	%	PPH	%	%	%	PPH	PPH
30450 BL 7+75N	3	64	22	312	.3	28	4	627	1.76	13	5	ND	4	20	1	2	3	32	.28	.256	12	11	.13	127	.12	7	3.09	.03	.04	1	48
30450 BL 7+50N	2	100	18	448	.8	26	4	518	1.77	9	5	ND	3	23	2	2	2	46	.50	.159	10	12	.14	144	.10	9	2.42	.02	.03	1	50
30450 BL 7+25N	2	67	11	604	.1	22	3	655	1.74	14	5	ND	3	27	2	2	2	33	.77	.192	7	14	.15	116	.11	9	2.66	.03	.05	1	40
30450 BL 6+75N	1	216	11	665	.3	34	4	544	2.30	9	5	ND	4	39	1	2	2	69	1.79	.041	10	21	.33	165	.11	18	2.99	.01	.06	1	30
30450 BL 6+50N	1	340	14	625	.1	31	4	751	1.94	8	5	ND	3	43	2	2	2	53	1.75	.051	10	17	.20	117	.10	17	2.20	.02	.06	1	20
30450 BL 6+25N	1	175	12	272	.3	26	4	380	1.73	9	5	ND	3	24	1	2	2	29	.42	.133	4	13	.18	150	.10	6	2.35	.02	.05	1	40
30450 BL 5+75N	1	160	9	116	.2	29	4	467	2.08	2	5	ND	3	47	1	2	2	39	.90	.021	7	29	.23	77	.09	4	2.11	.01	.08	1	30
30450 BL 5+50N	1	285	12	114	.1	18	6	469	2.15	2	5	ND	4	63	1	2	2	45	.88	.023	9	15	.35	128	.10	9	2.65	.01	.07	1	30
30450 BL 5+25N	1	110	9	72	.1	7	5	409	2.19	2	5	ND	2	67	1	2	3	43	.79	.017	9	10	.29	74	.09	9	2.23	.01	.05	1	20
30450 25176	1	476	7	53	.3	12	4	833	1.68	8	6	ND	1	312	1	6	2	55	9.61	.077	9	27	.48	15	.05	8	.88	.02	.04	1	5
30450 25177	2	1870	5	48	.5	5	9	306	1.99	5	5	ND	1	267	1	2	2	82	2.40	.211	6	27	.46	72	.10	6	1.10	.07	.10	4	5
30450 25178	14	99999	33	37	122.3	85	27	915	3.98	15	5	ND	1	39	6	2	197	33	6.36	.045	2	29	.28	2	.02	6	.54	.01	.01	3	5
STB C	20	62	41	132	7.4	69	27	1040	4.07	40	18	8	40	49	19	18	21	58	.49	.089	39	58	.88	180	.07	36	1.79	.06	.15	12	1300

- ASSAY REQUIRED FOR CORRECT RESULT -

## GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR NA FE CA P LA CR HG BA TI B AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: S. PULP HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: DEC 14 1987 DATE REPORT MAILED: Dec 17/87 ASSAYER: D. J. DEAN TOYE, CERTIFIED B.C. ASSAYER

LORING LAB. LTD PROJECT - 2135 File # 87-6177 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	W	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	PPM	PPM	I	PPM	I	PPM	I	I	I	PPM	PPM
30775-17+50N 4+00W	1	8	12	147	.1	5	3	589	1.80	2	5	ND	7	48	1	2	2	25	.24	.041	16	7	.19	144	.11	5	1.86	.02	.12	1	40
30775-17+50N 3+75W	1	4	8	131	.1	5	3	427	1.56	2	5	ND	3	44	1	2	2	24	.27	.031	9	7	.17	115	.11	2	1.60	.02	.08	1	50
30775-17+50N 3+50W	1	3	10	198	.1	6	3	618	1.33	2	5	ND	3	51	1	2	2	21	.31	.080	11	6	.13	127	.10	4	1.45	.03	.08	1	20
30775-17+50N 3+25W	2	13	8	425	.2	6	4	387	2.26	2	5	ND	6	36	1	2	2	39	.17	.072	18	11	.25	72	.12	2	2.01	.02	.06	1	30
30775-17+50N 3+00W	1	13	7	562	.1	5	5	781	2.35	2	5	ND	3	59	1	2	2	48	.30	.051	9	14	.33	88	.11	4	1.87	.02	.08	1	30
30775-17+50N 2+75W	1	9	12	507	.1	6	4	606	2.01	2	5	ND	2	59	1	2	2	33	.24	.152	9	11	.22	117	.13	5	2.00	.02	.08	1	60
30775-17+50N 2+50W	2	8	7	438	.2	5	4	733	1.53	3	5	ND	3	45	1	3	2	21	.26	.117	8	6	.11	94	.14	3	2.73	.03	.06	1	60
30775-17+50N 2+25W	3	17	10	466	.2	6	6	552	2.76	2	5	ND	3	58	1	2	2	57	.35	.085	25	19	.43	68	.11	3	1.49	.02	.08	1	50
30775-17+50N 2+00W	1	12	9	125	.1	7	4	327	2.00	3	5	ND	5	32	1	2	2	31	.18	.137	11	10	.20	86	.16	2	3.05	.03	.07	1	40
30775-17+50N 1+75W	1	11	13	94	.1	6	5	421	1.89	7	5	ND	5	25	1	4	2	27	.11	.114	14	9	.17	96	.17	3	3.55	.03	.05	2	50
30775-17+50N 1+50W	2	12	12	116	.1	9	5	938	2.04	6	5	ND	3	31	1	3	2	28	.20	.185	8	10	.19	161	.18	3	3.83	.02	.05	2	60
30775-17+50N 1+25W	1	12	11	120	.1	9	4	710	1.65	2	5	ND	4	36	1	2	2	23	.19	.101	10	9	.17	167	.17	4	2.65	.03	.06	1	50
30775-17+50N 1+00W	1	9	11	144	.2	8	4	676	1.96	4	5	ND	4	18	1	2	2	26	.10	.250	6	9	.13	129	.17	4	2.98	.02	.05	1	60
30775-17+50N 0+75W	1	7	14	114	.1	8	4	680	1.88	2	5	ND	3	23	1	2	2	26	.14	.144	8	9	.13	114	.18	2	3.24	.02	.06	1	50
30775-17+50N 0+50W	1	11	10	71	.3	6	3	673	1.67	3	5	ND	4	25	1	2	2	20	.18	.182	8	8	.09	109	.17	4	3.77	.03	.04	1	40
30775-17+50N 0+25W	1	10	16	121	.3	5	5	419	2.49	2	5	ND	3	50	1	3	2	49	.22	.072	14	16	.29	90	.10	5	1.24	.02	.05	1	30
30775-16+00N 4+00W	1	6	7	61	.1	8	4	343	2.19	4	5	ND	4	48	1	2	2	42	.22	.045	11	15	.18	91	.13	4	1.59	.02	.07	1	10
30775-16+00N 3+75W	1	13	19	107	.2	7	4	456	2.46	2	5	ND	11	34	1	2	2	40	.17	.087	33	13	.26	81	.12	2	1.88	.02	.08	1	20
30775-16+00N 3+50W	1	9	11	114	.1	7	3	360	2.00	2	5	ND	4	38	1	2	2	31	.18	.125	10	11	.20	130	.12	2	1.93	.02	.09	1	40
30775-16+00N 3+25W	2	8	10	90	.1	6	3	910	1.61	2	5	ND	4	32	1	2	2	22	.19	.097	12	7	.12	111	.13	4	2.21	.02	.07	1	20
30775-16+00N 3+00W	1	10	11	86	.2	7	5	310	2.36	4	5	ND	9	69	1	2	2	43	.26	.110	19	19	.33	60	.12	3	1.95	.02	.07	1	40
30775-16+00N 2+75W	1	10	6	304	.1	6	3	476	1.46	2	5	ND	3	49	1	2	2	21	.28	.099	10	6	.13	79	.13	3	2.27	.03	.06	1	30
30775-16+00N 2+50W	4	12	13	194	.1	4	4	369	1.83	3	5	ND	2	39	1	2	2	34	.20	.046	8	11	.13	50	.08	2	1.02	.02	.07	1	40
30775-16+00N 2+25W	2	10	13	185	.1	6	5	341	2.58	2	5	ND	4	50	1	2	2	51	.22	.039	12	14	.32	50	.10	3	1.20	.02	.08	1	20
30775-16+00N 2+00W	2	7	11	108	.1	4	4	380	1.87	2	5	ND	4	33	1	2	2	33	.16	.088	11	10	.17	75	.09	2	.95	.01	.06	1	40
30775-16+00N 1+75W	1	17	12	215	.1	7	5	886	2.23	3	5	ND	5	36	1	2	2	34	.18	.140	18	12	.20	124	.13	5	2.43	.02	.06	1	30
30775-16+00N 1+50W	1	31	14	159	.3	7	4	776	2.35	2	5	ND	6	66	1	2	2	38	.38	.040	38	14	.26	115	.12	2	2.52	.03	.07	1	30
30775-16+00N 1+25W	1	9	10	61	.3	8	3	640	1.64	2	5	ND	3	26	1	2	2	20	.14	.168	8	7	.10	114	.16	2	3.82	.03	.04	1	60
30775-16+00N 1+00W	1	9	10	97	.1	10	4	458	1.84	3	5	ND	3	33	1	2	2	25	.16	.139	9	10	.16	169	.17	4	2.96	.03	.05	1	30
30775-16+00N 0+75W	1	5	6	61	.1	5	3	396	1.71	2	5	ND	3	29	1	2	2	25	.17	.121	11	10	.12	71	.11	4	1.73	.02	.04	1	20
30775-16+00N 0+50W	2	12	13	41	.1	8	4	204	2.52	6	5	ND	4	41	1	2	2	38	.25	.038	10	12	.21	75	.19	5	3.36	.03	.06	3	30
30775-14+00N 4+00W	1	8	12	58	.1	6	4	294	2.33	2	5	ND	3	53	1	2	3	47	.22	.019	12	19	.25	62	.13	5	1.16	.02	.09	1	40
30775-14+00N 3+75W	1	7	11	68	.1	8	4	435	2.08	6	5	ND	3	59	1	3	2	35	.30	.028	12	14	.26	84	.12	2	1.55	.02	.11	1	20
30775-14+00N 3+50W	1	7	14	77	.1	7	3	518	2.04	2	5	ND	3	56	1	2	2	34	.30	.069	13	12	.21	112	.11	5	1.42	.02	.10	1	10
30775-14+00N 3+25W	1	5	8	60	.1	7	4	273	2.02	2	5	ND	3	38	1	3	2	36	.19	.020	11	12	.17	66	.12	3	1.27	.02	.08	1	10
30775-14+00N 3+00W	1	10	17	70	.1	7	5	418	2.21	2	5	ND	3	49	1	2	2	37	.23	.028	14	13	.23	106	.13	3	1.84	.02	.09	1	50
STD C	20	63	40	132	7.2	72	30	1110	4.32	43	20	8	40	47	20	18	22	61	.48	.087	39	60	.86	182	.06	38	1.87	.06	.15	13	1300

LORING LAB. LTD. PROJECT - 2135 FILE # 87-6177

	MO	CU	PB	ZN	AS	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	H6	BA	TI	B	AL	NA	K	W	H6
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	PPM	PPM	I	PPM	I	PPM	I	I	PPM	PPM	
30775-14+00N 2+75W	2	8	7	120	.1	10	4	664	1.80	2	5	ND	5	34	1	2	2	25	.22	.171	11	10	.15	121	.14	2	3.71	.03	.07	1	40
30775-14+00N 2+50W	2	11	14	241	.1	8	4	450	1.93	3	5	ND	7	44	1	2	2	26	.29	.162	13	9	.20	123	.11	5	2.59	.02	.11	1	30
30775-14+00N 2+25W	3	10	4	183	.1	9	3	784	1.81	2	5	ND	5	44	1	2	2	25	.27	.120	17	11	.16	196	.12	3	3.32	.03	.07	1	30
30775-14+00N 2+00W	2	9	7	129	.1	9	4	512	1.85	2	5	ND	6	33	1	2	2	29	.18	.095	11	11	.17	136	.11	2	2.56	.03	.07	1	40
30775-14+00N 1+75W	3	8	7	223	.1	6	3	888	1.79	2	5	ND	4	23	1	2	2	27	.14	.240	7	10	.13	181	.11	3	2.21	.02	.06	1	20
30775-14+00N 1+50W	3	12	7	196	.1	6	3	1358	1.77	2	5	ND	4	25	1	2	2	26	.14	.202	11	9	.14	154	.12	2	2.72	.03	.05	1	30
30775-14+00N 1+25W	3	71	10	93	.7	11	3	304	2.41	2	18	ND	15	76	1	2	2	37	.47	.023	115	14	.28	112	.12	3	4.06	.04	.06	1	40
30775-14+00N 1+00W	1	15	13	95	.1	9	6	369	2.75	6	5	ND	6	24	1	2	2	48	.16	.112	8	14	.38	88	.12	6	3.40	.02	.06	1	50
30775-14+00N 0+75W	1	11	6	85	.1	9	6	600	2.62	2	5	ND	4	25	1	2	2	45	.17	.087	8	12	.46	115	.11	2	3.17	.02	.06	1	40
30775-14+00N 0+50W	1	14	11	75	.1	8	7	537	2.81	3	5	ND	5	31	1	2	2	51	.21	.068	12	14	.59	123	.11	2	2.93	.02	.06	1	30
30775-14+00N 0+25W	1	31	2	66	.3	9	13	573	5.10	2	5	ND	7	69	1	3	8	105	.57	.025	11	16	1.27	57	.10	3	3.26	.02	.11	1	5
30775-12+00N 4+00W	1	4	5	72	.1	3	3	558	2.13	2	5	ND	3	27	1	2	2	41	.18	.044	11	14	.22	73	.08	2	1.22	.01	.09	1	10
30775-12+00N 3+75W	1	7	7	132	.1	9	3	816	1.60	2	5	ND	4	39	1	2	2	27	.22	.123	10	11	.18	178	.08	4	1.57	.02	.11	1	10
30775-12+00N 3+50W	1	11	4	95	.1	10	3	373	1.83	3	5	ND	5	44	1	2	2	28	.26	.217	8	10	.20	123	.11	2	2.50	.03	.07	1	20
30775-12+00N 3+25W	1	5	3	61	.1	6	3	238	1.81	2	5	ND	4	29	1	2	2	31	.15	.021	8	12	.21	107	.09	4	1.59	.02	.06	1	3
30775-12+00N 3+00W	2	11	14	68	.1	8	4	1142	2.25	2	5	ND	11	62	1	2	2	37	.44	.017	79	14	.23	87	.08	3	1.97	.02	.10	1	30
30775-12+00N 2+75W	1	7	7	102	.1	4	3	590	1.69	4	5	ND	4	56	1	3	2	30	.36	.021	9	10	.20	111	.09	3	1.65	.02	.11	1	10
30775-12+00N 2+50W	1	4	7	189	.1	5	3	474	1.67	2	5	ND	2	41	1	2	2	31	.26	.051	8	11	.19	81	.09	2	1.50	.02	.07	1	30
30775-12+00N 2+25W	2	5	5	180	.1	8	3	468	1.44	2	5	ND	2	31	1	2	2	24	.19	.047	7	8	.18	121	.09	6	1.72	.03	.08	1	20
30775-12+00N 2+00W	3	6	7	123	.1	4	3	509	1.56	2	5	ND	3	15	1	2	2	23	.09	.179	6	9	.11	103	.10	3	2.12	.02	.06	1	30
30775-11+00N 3+50W	2	14	16	439	.1	7	5	2325	2.37	3	5	ND	6	138	1	2	2	45	1.20	.156	20	11	.50	401	.09	15	1.64	.04	.30	1	60
30775-11+00N 3+25W	1	10	6	125	.1	10	3	270	1.85	4	5	ND	6	51	1	2	2	25	.37	.280	7	8	.18	93	.13	5	3.38	.03	.10	1	10
30775-11+00N 3+00W	1	8	6	137	.1	9	4	283	2.07	2	5	ND	4	34	1	2	2	33	.23	.070	7	12	.26	123	.11	4	2.50	.02	.11	1	5
30775-11+00N 2+75W	2	10	11	93	.1	5	3	508	2.10	2	5	ND	3	36	1	2	2	41	.23	.027	11	14	.27	85	.10	5	1.38	.02	.09	1	10
30775-11+00N 2+50W	3	13	10	113	.2	10	4	635	1.70	2	5	ND	3	50	1	2	2	28	.31	.093	12	13	.23	152	.10	4	1.95	.02	.09	1	40
30775-11+00N 2+25W	2	10	11	156	.1	9	3	563	1.55	3	5	ND	2	39	1	2	2	23	.23	.114	8	9	.18	128	.13	6	2.75	.03	.07	1	10
30775-11+00N 2+00W	2	11	2	175	.1	10	3	1338	1.66	2	5	ND	3	29	1	2	2	25	.15	.228	8	10	.16	233	.10	4	2.26	.02	.06	1	20
30775-BL 17+50W	2	10	7	78	.1	7	4	817	1.76	5	5	ND	2	21	1	2	2	25	.18	.192	11	10	.15	102	.12	3	3.53	.02	.04	1	10
30775-BL 17+25N	2	15	14	183	.1	4	4	1167	1.84	4	5	ND	4	36	1	2	2	29	.22	.191	8	10	.17	158	.09	4	2.04	.02	.06	1	30
30775-BL 17+00N	3	15	13	48	.1	8	5	255	2.10	2	5	ND	3	32	1	2	2	38	.25	.033	13	12	.22	64	.12	3	2.64	.03	.06	1	20
30775-BL 16+75W	2	11	12	96	.1	9	5	777	2.09	7	5	ND	2	18	1	2	2	31	.13	.233	6	11	.17	110	.14	4	3.30	.02	.07	1	30
30775-BL 16+50W	1	11	6	89	.1	8	4	1084	2.19	5	5	ND	4	21	1	2	2	33	.15	.205	11	13	.23	166	.14	4	4.06	.03	.05	1	20
30775-BL 16+25N	1	17	12	77	.1	10	4	244	2.28	14	5	ND	7	24	1	4	2	36	.15	.149	9	14	.26	145	.15	4	4.30	.03	.07	2	60
30775-BL 16+00N	1	12	16	96	.2	10	4	643	2.21	3	5	ND	5	30	1	2	2	34	.21	.145	10	14	.27	122	.14	4	3.54	.03	.07	1	20
30775-BL 15+75W	1	16	7	68	.1	10	4	256	2.20	8	5	ND	9	28	1	2	2	34	.18	.151	15	13	.24	132	.16	3	4.04	.03	.06	1	50
30775-BL 15+50W	2	10	3	61	.1	6	3	605	1.52	3	5	ND	1	21	1	2	2	25	.14	.087	8	10	.14	126	.11	2	2.50	.03	.04	1	20
STD C	21	63	41	132	8.2	72	30	1052	4.28	42	18	8	39	48	20	16	24	64	.47	.090	39	64	.95	182	.08	39	2.07	.07	.14	13	1300

LORING LABORATORIES PROJECT-2135 FILE # 87-6177

	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	PPM	PPM	I	PPM	I	PPM	I	I	PPM	PPB	
30775-BL 15+25N	1	17	11	119	.2	11	5	394	2.38	2	5	ND	5	40	1	2	2	35	.24	.071	22	14	.27	131	.14	3	3.19	.02	.12	1	30
30775-BL 15+00N	1	15	10	66	.1	9	4	699	1.79	2	5	ND	3	30	1	2	2	26	.17	.153	8	8	.23	136	.15	2	2.97	.02	.04	1	20
30775-BL 14+75N	1	14	12	63	.1	7	5	294	2.28	2	5	ND	3	32	1	2	2	38	.19	.097	8	12	.33	110	.14	3	2.76	.01	.04	1	20
30775-BL 14+50N	1	23	8	58	.3	9	9	379	3.15	2	5	ND	7	43	1	6	2	54	.20	.073	15	13	.69	114	.15	2	3.18	.02	.09	2	50
30775-BL 14+25N	1	14	12	85	.2	10	7	758	2.68	2	5	ND	4	38	1	4	2	48	.34	.064	9	14	.59	129	.11	5	2.01	.01	.16	1	20
30775-BL 14+00N	1	26	10	86	.4	10	10	626	3.71	2	5	ND	6	62	1	2	2	59	.45	.036	16	12	.83	158	.12	3	4.03	.02	.14	1	50
30775-BL 13+75N	1	16	8	72	.4	6	5	577	2.01	2	5	ND	4	29	1	3	2	30	.21	.128	12	8	.30	108	.12	2	2.70	.02	.07	1	40
30775-BL 13+50N	1	12	9	57	.1	6	10	551	3.58	2	5	ND	5	56	1	3	2	66	.29	.022	9	14	.82	81	.08	2	1.97	.01	.08	1	20
30775-BL 13+25N	1	12	9	64	.1	6	10	665	3.69	2	5	ND	4	68	1	2	3	68	.36	.051	11	12	.96	87	.05	2	1.94	.01	.13	1	40
30775-BL 13+00N	1	11	8	46	.1	7	7	270	2.84	2	5	ND	4	39	1	2	3	46	.32	.026	6	10	.71	53	.05	2	2.01	.01	.07	1	30
30775-BL 12+75N	1	12	9	65	.1	7	6	559	2.31	2	5	ND	2	31	1	2	2	34	.22	.060	3	9	.49	146	.08	2	2.40	.01	.09	1	40
30775-BL 12+50N	1	21	10	84	.1	9	9	428	3.11	2	5	ND	3	31	1	6	2	50	.21	.058	5	11	.72	182	.09	3	3.30	.01	.05	1	30
30775-BL 12+25N	1	15	7	91	.1	8	6	849	2.39	2	5	ND	2	34	1	2	2	38	.20	.067	8	12	.41	132	.09	3	2.12	.01	.07	1	90
30775-10+00N 1+50	11	5483	33	160	19.6	237	195	1812	9.39	309	31	ND	5	150	3	2	3	52	9.79	.103	28	65	.17	18	.04	3	1.09	.01	.04	5	110
STD C	20	63	41	132	7.5	73	31	1094	4.19	43	20	9	40	56	19	18	24	61	.47	.091	39	63	.93	181	.06	37	1.93	.06	.14	13	1400



GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR RR FE CA P LA CR HG BA TI B W AND LIMITED FOR NA K AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: P1-1 SOIL PULP P3-ROCK PULP HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: DEC 14 1987

DATE REPORT MAILED: Dec 21/87 ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

Orion Resources Ltd.

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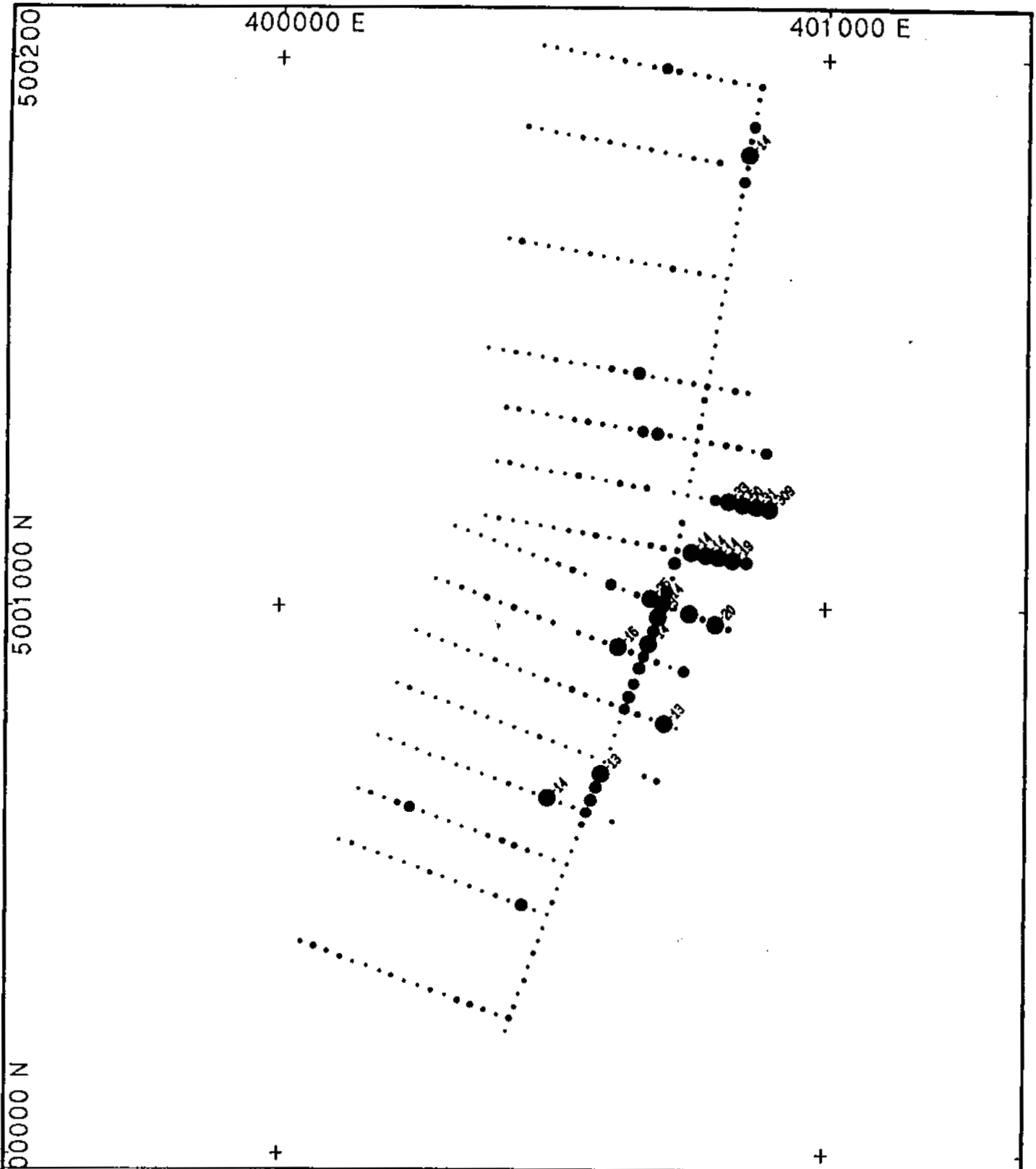
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11 2	30757	10+00N	3+25W	1	11	10	167	.1	7	3	597	1.56	3	5	ND	3	46	1	2	2	21	.20	.169	9	9	.15	188	.12	4	2.15	.03	.06	1	40
	30757	10+00N	3+00W	1	10	4	84	.1	10	4	278	1.97	2	5	ND	5	53	1	2	2	33	.18	.056	10	13	.28	110	.12	8	1.71	.02	.09	1	10
	30757	10+00N	2+75W	1	8	5	87	.1	5	3	555	1.81	2	5	ND	2	50	1	2	2	33	.27	.013	8	15	.23	84	.11	4	1.26	.01	.13	1	30
	30757	10+00N	2+50W	1	9	12	103	.1	8	4	387	2.29	2	5	ND	4	49	1	2	2	40	.24	.021	10	16	.32	128	.14	6	2.13	.02	.11	1	20
	30757	10+00N	2+25W	1	8	12	164	.1	7	6	600	1.75	2	6	ND	4	52	1	2	2	27	.30	.150	9	12	.23	221	.12	7	1.95	.05	.08	1	30
12 3	30757	10+00N	2+00W	3	13	9	54	.3	8	3	190	1.68	2	4	ND	4	33	1	2	2	20	.23	.105	11	7	.10	76	.16	6	4.07	.05	.03	1	40
	30757	9+00N	3+50W	1	7	6	106	.1	8	3	378	1.65	2	5	ND	3	49	1	2	3	22	.26	.064	7	9	.21	156	.11	7	1.91	.02	.11	1	10
	30757	9+00N	3+25W	1	12	6	118	.2	8	3	308	1.57	3	5	ND	3	37	1	2	2	23	.21	.074	7	12	.20	149	.11	9	2.16	.02	.09	2	30
	30757	9+00N	3+00W	1	6	7	96	.1	8	3	231	1.38	2	5	ND	3	44	1	2	2	21	.21	.059	7	6	.18	96	.11	7	1.71	.03	.10	1	30
	30757	9+00N	2+75W	3	6	12	120	.1	5	6	532	1.91	2	5	ND	3	43	1	3	2	31	.21	.019	12	11	.21	93	.10	9	1.42	.02	.08	1	20
12 2	30757	9+00N	2+50W	2	9	10	79	.1	4	4	463	2.31	2	5	ND	5	53	1	2	2	42	.24	.023	12	14	.29	73	.12	3	1.61	.01	.11	1	10
	30757	9+00N	2+25W	1	9	12	113	.1	3	4	543	2.02	2	5	ND	3	46	1	2	2	35	.22	.054	9	12	.24	98	.12	2	1.48	.01	.08	2	20
	30757	9+00N	2+00W	2	11	7	222	.1	7	3	711	1.36	3	5	ND	3	26	1	2	2	20	.14	.198	6	10	.13	200	.12	7	1.90	.02	.07	1	30
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12 3	30757	8+00N	3+50W	1	6	6	80	.1	4	4	425	1.98	2	5	ND	3	44	1	2	2	33	.19	.022	8	10	.22	100	.11	8	1.52	.02	.08	1	10
	30757	8+00N	3+25W	1	10	8	110	.1	6	4	236	2.32	2	5	ND	4	47	1	2	2	38	.22	.039	9	12	.22	100	.13	5	2.02	.02	.12	1	10
	30757	8+00N	3+00W	2	9	8	237	.1	5	3	1184	2.44	2	5	ND	4	57	1	2	2	45	.36	.018	15	15	.27	124	.10	2	1.60	.01	.15	1	20
	30757	8+00N	2+75W	2	9	12	231	.1	6	4	788	2.10	2	5	ND	4	59	1	2	2	35	.33	.019	20	12	.29	88	.11	2	1.97	.01	.12	1	5
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	30757	8+00N	2+00W	2	12	21	207	.1	7	5	544	2.29	4	5	ND	5	45	1	2	2	38	.24	.041	11	13	.30	123	.12	4	2.19	.02	.10	1	5
	30757	8+00N	1+75W	2	11	10	108	.1	4	4	383	2.26	5	7	ND	3	60	1	2	2	45	.27	.059	11	13	.25	74	.09	3	1.02	.02	.08	1	5
	30757	7+00N	4+00W	2	10	9	99	.1	7	4	527	1.63	2	5	ND	3	45	1	2	2	26	.18	.069	8	10	.17	134	.12	3	2.07	.02	.06	1	10
	30757	7+00N	3+25W	1	11	12	112	.1	5	4	574	2.44	2	5	ND	4	54	1	2	2	46	.30	.045	14	14	.22	83	.11	2	1.49	.01	.11	1	10
12 3	30757	7+00N	2+75W	1	12	16	115	.3	7	4	363	2.18	2	5	ND	5	62	1	2	2	40	.24	.029	11	14	.29	154	.13	4	1.75	.02	.07	1	20
	30757	7+00N	2+50W	1	13	8	134	.2	6	3	504	2.49	5	5	ND	6	56	1	2	2	45	.28	.024	15	18	.36	80	.14	2	2.02	.02	.07	1	20
	30757	7+00N	2+25W	1	11	13	110	.3	6	4	374	2.25	2	5	ND	7	48	1	2	2	38	.24	.017	17	14	.30	84	.14	2	1.68	.02	.13	1	40
	30757	7+00N	2+00W	2	12	14	231	.1	4	4	2316	1.30	3	5	ND	2	71	1	2	2	19	.40	.096	8	8	.19	322	.09	3	1.40	.02	.10	1	40
	30757	6+00N	4+00W	5	14	13	356	.1	20	8	2248	3.33	2	5	ND	5	87	1	2	2	56	.47	.038	26	40	.68	167	.11	6	2.81	.01	.28	1	30
12 2	30757	6+00N	3+75W	3	19	20	374	.1	14	7	1622	3.27	2	6	ND	6	139	1	2	2	58	.32	.045	19	27	.36	146	.10	3	2.91	.01	.26	1	20
	30757	6+00N	3+25W	1	13	12	708	.3	7	3	1109	1.56	2	4	ND	3	97	1	2	2	26	.44	.075	9	11	.27	195	.08	6	1.63	.03	.13	1	30
	30757	6+00N	3+00W	1	11	11	344	.2	9	4	337	1.87	2	5	ND	4	51	1	2	2	31	.33	.081	6	11	.31	75	.11	5	2.03	.02	.19	1	20
	30757	6+00N	2+75W	1	10	11	507	.1	6	3	596	1.37	2	5	ND	1	38	1	2	2	21	.24	.159	4	7	.19	159	.10	4	1.77	.03	.09	1	30
	30757	6+00N	2+50W	3	74	22	354	.8	11	7	1037	3.47	3	7	ND	8	108	1	2	3	53	.94	.052	31	24	.34	65	.11	6	3.21	.02	.21	1	70
12 3	30757	6+00N	2+25W	2	14	14	339	.1	8	5	900	2.10	2	5	ND	3	44	1	2	2	34	.29	.083	8	18	.37	165	.12	6	1.92	.02	.15	1	40
	STD C	18	39	38	132	7.4	67	29	1144	4.06	44	16	7	37	52	19	17	23	57	.45	.084	40	61	.90	178	.09	34	1.96	.06	.13	12	1300		

	MO	CU	PR	ZN	AS	NI	CO	MN	FE	AS	U	AU	TH	SR	CO	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	M	HG
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30757 6+00N 2+00W	2	10	13	231	.1	12	5	452	2.27	2	5	ND	5	41	1	2	2	35	.25	.255	8	12	.23	192	.16	3	3.35	.02	.08	1	40
30757 6+00N 1+75W	1	5	2	55	.1	3	3	357	1.75	2	5	ND	3	29	1	2	2	36	.20	.012	10	14	.23	63	.11	3	.81	.01	.09	1	10
30757 6+00N 1+50W	2	8	17	63	.1	6	3	162	1.67	3	5	ND	5	46	1	2	2	25	.10	.087	10	9	.15	114	.11	2	2.49	.02	.04	1	20
30757 5+00N 4+00W	2	8	10	190	.1	8	4	372	1.94	2	5	ND	3	32	1	2	2	31	.16	.084	15	12	.21	148	.14	2	2.72	.02	.06	1	50
30757 5+00N 3+75W	2	9	8	102	.1	5	5	446	3.41	3	5	ND	4	91	1	2	2	79	.41	.039	23	25	.31	45	.12	4	1.01	.02	.12	1	40
30757 5+00N 3+50W	1	10	19	83	.1	6	5	511	2.44	2	5	ND	6	728	1	2	2	45	1.02	.033	32	19	.46	165	.09	3	2.72	.01	.30	2	50
30757 5+00N 3+25W	2	32	15	300	.3	9	6	1215	3.03	2	5	ND	8	108	1	3	2	48	.61	.037	71	18	.39	109	.12	5	2.99	.02	.19	1	70
30757 5+00N 3+00W	1	10	8	156	.1	4	4	457	2.66	2	5	ND	4	55	1	2	3	52	.33	.020	10	15	.52	68	.12	4	1.49	.02	.16	1	20
30757 5+00N 2+75W	4	10	8	164	.1	5	6	813	3.19	2	5	ND	5	57	1	2	2	66	.36	.025	15	16	.41	90	.12	3	1.53	.02	.15	1	50
30757 5+00N 2+50W	2	10	7	163	.1	5	4	484	2.69	2	5	ND	3	48	1	2	2	52	.31	.018	11	16	.30	78	.12	8	1.45	.02	.14	1	20
30757 5+00N 2+25W	1	8	6	319	.1	5	2	411	1.11	2	5	ND	2	62	1	2	2	16	.31	.069	6	7	.17	196	.09	4	1.50	.03	.09	1	30
30757 5+00N 2+00W	1	50	17	160	.5	7	7	581	2.99	2	5	ND	8	93	1	2	5	57	.54	.049	34	14	.54	60	.14	3	2.74	.02	.16	1	50
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30757 4+00N 4+00W	2	6	15	166	.1	4	4	476	2.21	2	5	ND	4	190	1	2	2	40	.32	.021	11	11	.26	92	.10	3	1.55	.02	.14	1	30
30757 4+00N 3+75W	1	8	11	108	.2	4	4	373	2.36	2	5	ND	4	107	1	3	2	49	.28	.019	11	13	.28	95	.13	3	1.36	.01	.11	1	40
30757 4+00N 3+50W	2	11	12	302	.2	9	6	535	2.44	2	5	ND	5	163	1	2	2	41	.43	.034	12	18	.38	165	.15	4	2.55	.02	.14	1	30
30757 4+00N 3+25W	2	10	11	370	.2	6	5	928	2.30	2	5	ND	3	109	1	4	2	43	.46	.031	10	15	.30	144	.12	5	1.45	.02	.14	1	40
30757 4+00N 3+00W	1	10	10	200	.1	3	4	697	2.15	2	5	ND	3	107	1	2	2	40	.40	.029	10	13	.27	176	.12	4	1.50	.01	.13	1	20
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30757 4+00N 2+50W	3	13	14	214	.1	7	7	579	3.31	2	5	ND	4	72	1	2	3	60	.35	.021	14	18	.56	72	.16	2	2.22	.02	.16	1	50
30757 4+00N 2+25W	3	13	14	234	.3	8	6	655	2.82	2	5	ND	5	82	1	2	3	51	.45	.044	14	18	.43	100	.13	3	2.33	.01	.11	1	40
30757 4+00N 2+00W	1	17	14	111	.4	9	5	314	2.74	2	5	ND	7	70	1	2	2	52	.38	.024	24	20	.41	38	.15	2	1.99	.02	.09	1	40
30757 4+00N 1+75W	1	21	26	95	.3	13	9	588	3.20	2	5	ND	10	219	1	2	3	62	.93	.077	36	37	.90	84	.26	17	2.69	.03	.07	1	30
30757 4+00N 1+50W	1	13	20	111	.1	8	6	354	2.18	2	5	ND	6	99	1	2	2	37	.41	.139	22	12	.41	85	.20	6	2.37	.03	.09	1	40
30757 4+00N 1+00W	2	31	23	123	.6	8	6	624	2.39	2	5	ND	8	105	1	2	2	38	.63	.059	28	13	.35	95	.18	6	2.62	.03	.09	1	60
30757 4+00N 0+75W	3	56	19	142	.1	34	12	388	3.61	14	5	ND	4	67	1	2	2	53	.38	.069	11	23	.71	106	.11	4	3.30	.01	.10	1	50
30757 4+00N 0+50W	1	14	13	83	.3	8	5	312	2.06	2	5	ND	3	54	1	3	3	32	.37	.031	9	11	.47	81	.12	3	2.40	.02	.10	1	30
30757 4+00N 0+25W	1	21	12	110	.2	11	5	417	2.29	2	5	ND	4	123	1	3	2	36	.41	.083	15	15	.36	153	.16	6	2.89	.03	.10	1	40
30757 3+00N 4+00W	1	7	14	113	.1	8	4	516	1.91	2	5	ND	2	42	1	2	2	34	.17	.066	9	13	.20	157	.11	6	1.44	.02	.08	1	20
30757 3+00N 3+75W	1	8	10	122	.1	8	4	387	2.01	3	5	ND	4	48	1	2	2	36	.21	.100	9	13	.23	130	.11	4	1.61	.02	.09	1	30
30757 3+00N 3+50W	1	7	8	131	.1	7	4	443	1.89	2	5	ND	3	105	1	3	2	32	.26	.025	13	12	.25	109	.11	5	1.62	.02	.11	1	10
30757 3+00N 3+25W	1	9	11	156	.2	17	6	333	2.37	5	5	ND	2	79	1	4	3	41	.40	.032	10	33	.49	91	.14	2	2.24	.02	.06	1	20
30757 3+00N 3+00W	1	10	14	205	.1	11	7	1076	2.72	2	5	ND	4	98	1	2	3	48	.49	.029	15	24	.50	169	.16	6	2.30	.02	.16	1	30
30757 3+00N 2+75W	1	9	10	160	.1	20	7	440	2.25	2	5	ND	3	64	1	2	3	43	.39	.019	10	74	.66	77	.20	3	1.50	.02	.33	1	10
30757 3+00N 2+50W	1	7	7	148	.1	6	4	541	2.14	2	5	ND	4	108	1	2	2	38	.33	.027	13	14	.30	113	.11	5	1.44	.02	.13	1	20
30757 3+00N 2+25W	2	15	23	262	.1	12	7	864	2.76	2	5	ND	3	95	1	2	2	49	.53	.038	11	40	.55	109	.14	4	1.98	.02	.29	1	20
STD C	20	61	38	132	7.4	68	30	1115	4.12	42	19	8	38	53	19	18	23	59	.46	.085	41	63	.91	180	.09	34	2.00	.06	.14	12	1300

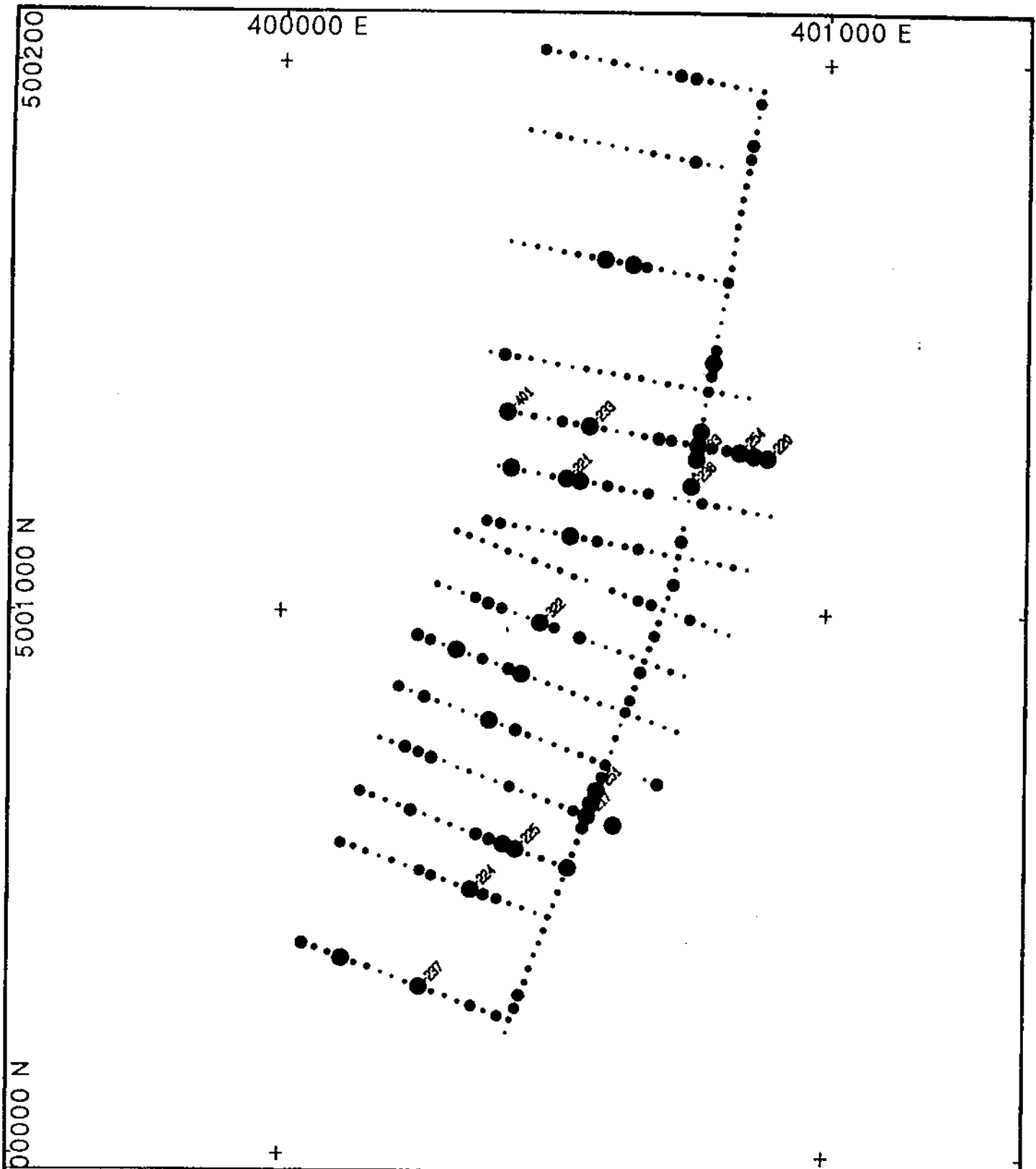
SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	HG
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30757 3+00N 2+00W	1	18	17	153	.1	7	7	507	2.90	2	5	ND	5	99	1	3	2	50	.58	.014	25	31	.55	51	.14	6	1.83	.02	.28	1	30
30757 3+00N 1+75W	1	15	21	166	.1	6	8	1139	3.21	2	5	ND	8	178	1	2	2	58	.78	.057	32	15	.67	168	.23	2	2.31	.02	.17	1	70
30757 3+00N 1+50W	1	18	17	143	.1	12	9	862	3.29	3	6	ND	7	227	1	2	2	62	1.11	.129	39	25	.76	162	.28	4	2.25	.02	.11	1	60
30757 3+00N 0+75W	1	15	21	354	.1	7	6	648	2.53	4	5	ND	4	197	1	2	2	48	.94	.123	18	21	.62	107	.19	3	1.59	.02	.09	1	50
30757 3+00N 0+50W	2	20	15	105	.1	6	6	968	2.31	2	5	ND	3	148	1	2	3	48	.72	.066	16	15	.46	121	.17	4	1.12	.02	.09	1	40
30757 3+00N 0+25W	1	10	11	94	.1	6	4	376	1.89	2	5	ND	4	80	1	2	2	35	.41	.070	12	11	.30	98	.18	3	1.58	.02	.10	1	50
30757 2+00N 4+00W	2	11	5	180	.2	7	3	555	1.81	2	5	ND	5	64	1	2	2	28	.29	.141	9	11	.23	156	.12	3	2.03	.02	.08	1	40
30757 2+00N 3+75W	2	10	6	186	.1	6	4	319	1.91	3	5	ND	4	34	1	2	2	33	.20	.052	8	12	.25	130	.12	3	1.80	.02	.08	1	50
30757 2+00N 3+50W	2	9	3	284	.1	6	4	762	2.15	2	5	ND	4	55	1	2	2	39	.40	.044	8	14	.30	120	.10	7	1.45	.01	.20	1	10
30757 2+00N 3+25W	1	12	7	247	.1	6	4	358	2.30	2	5	ND	4	46	1	2	2	38	.29	.029	9	12	.31	76	.11	2	1.72	.02	.16	1	20
30757 2+00N 3+00W	3	6	5	249	.1	6	3	865	1.63	2	5	ND	1	42	1	2	2	27	.25	.031	6	9	.20	127	.09	4	1.50	.02	.10	1	30
30757 2+00N 2+75W	1	14	13	197	.1	6	5	780	2.73	2	5	ND	7	99	1	2	2	48	.56	.033	19	15	.44	83	.11	2	1.65	.02	.24	1	20
30757 2+00N 2+50W	2	22	12	273	.1	9	7	1549	3.13	2	5	ND	6	133	1	2	2	52	.77	.047	28	17	.61	159	.09	2	2.10	.02	.27	1	40
30757 2+00N 2+25W	2	16	15	340	.1	11	7	1367	3.02	4	5	ND	4	109	1	2	2	47	.69	.053	18	15	.59	156	.09	8	2.35	.02	.33	1	70
30757 2+00N 2+00W	2	18	12	156	.1	15	9	870	3.54	2	5	ND	4	153	1	2	4	74	.64	.045	16	36	.79	96	.18	5	1.91	.02	.08	1	30
30757 2+00N 1+75W	1	19	7	135	.1	15	7	521	3.38	2	5	ND	3	146	1	2	4	70	.64	.032	12	32	.68	97	.25	3	2.05	.02	.14	1	20
30757 2+00N 1+50W	1	11	7	191	.1	9	4	1440	1.60	2	5	ND	2	68	1	2	4	28	.34	.094	8	15	.26	224	.12	4	1.44	.02	.09	1	30
30757 2+00N 1+25W	2	11	13	235	.1	8	4	1152	1.73	2	5	ND	2	54	1	3	2	27	.24	.179	9	11	.22	162	.10	5	1.75	.02	.07	1	60
30757 2+00N 1+00W	4	15	21	130	.1	5	6	1793	2.07	4	5	ND	2	133	1	2	2	41	.50	.066	14	17	.33	153	.11	5	.93	.02	.13	1	50
30757 2+00N 0+75W	2	13	13	129	.1	5	5	1587	2.46	2	5	ND	2	118	1	2	2	51	.48	.067	15	20	.33	96	.10	20	.89	.02	.11	1	40
30757 2+00N 0+50W	1	18	8	67	.2	8	5	337	2.37	9	7	ND	5	18	1	3	2	38	.12	.141	10	16	.18	91	.14	2	2.48	.02	.05	2	50
30757 2+00N 0+25W	3	14	22	108	.2	4	4	829	2.39	2	5	ND	2	168	1	2	2	50	.46	.078	14	19	.32	78	.10	4	.94	.02	.10	1	60
30757 0+00N 4+00W	1	11	9	120	.1	5	4	279	2.23	3	5	ND	5	66	1	2	2	35	.26	.095	10	10	.28	167	.11	2	2.29	.02	.09	1	20
30757 0+00N 3+75W	1	12	5	212	.1	6	4	250	1.85	5	5	ND	4	43	1	2	2	30	.19	.085	11	10	.21	121	.11	7	2.00	.03	.08	1	30
30757 0+00N 3+50W	1	14	7	147	.3	7	4	319	2.17	4	6	ND	5	44	1	2	2	36	.28	.086	10	12	.27	131	.13	2	2.33	.02	.08	1	40
30757 0+00N 3+25W	1	15	6	160	.1	8	5	265	2.40	4	5	ND	5	50	1	2	2	37	.23	.035	9	12	.31	190	.14	2	2.43	.02	.11	1	10
30757 0+00N 3+00W	2	13	14	150	.2	8	4	348	2.31	2	5	ND	6	191	1	3	2	40	.26	.107	14	12	.31	121	.16	4	2.23	.02	.10	1	30
30757 0+00N 2+75W	2	9	10	163	.1	4	3	545	1.70	2	5	ND	4	159	1	2	2	31	.24	.020	10	9	.24	121	.17	4	1.32	.02	.15	1	10
30757 0+00N 2+50W	1	12	11	97	.1	5	4	431	2.16	2	5	ND	5	71	1	2	2	37	.39	.014	12	15	.31	75	.13	5	1.52	.01	.14	1	10
30757 0+00N 2+25W	1	11	6	144	.2	7	5	407	2.58	3	5	ND	6	69	1	2	2	44	.36	.024	14	15	.37	85	.13	2	1.87	.02	.14	1	5
30757 0+00N 2+00W	1	15	6	163	.1	7	6	554	3.06	2	5	ND	5	80	1	2	2	57	.48	.037	17	21	.48	93	.14	2	1.99	.02	.16	1	20
30757 0+00N 1+75W	1	15	9	259	.3	7	6	922	2.20	2	5	ND	3	77	1	2	2	33	.46	.121	11	15	.37	237	.12	5	2.39	.02	.17	1	40
30757 0+00N 1+50W	2	12	5	143	.3	7	4	618	1.56	3	5	ND	3	46	1	2	2	22	.25	.149	8	9	.22	139	.11	3	1.87	.02	.08	1	40
30757 0+00N 1+25W	3	12	12	105	.1	6	5	544	2.50	2	5	ND	3	56	1	2	2	50	.33	.037	11	17	.36	92	.13	3	1.64	.01	.10	1	20
30757 0+00N 1+00W	1	17	9	86	.2	6	5	345	2.40	6	5	ND	6	57	1	2	2	45	.28	.084	18	15	.36	96	.12	2	1.58	.02	.18	1	30
30757 0+00N 0+75W	1	10	4	90	.1	6	4	637	1.66	5	5	ND	4	27	1	2	2	21	.15	.209	8	9	.13	148	.15	3	3.08	.02	.05	1	60
STD C	19	59	36	132	7.5	67	30	1102	4.12	39	17	8	38	53	18	19	21	58	.46	.082	40	60	.91	178	.09	34	1.81	.06	.14	14	1400

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	Ø	AL	NA	K	W	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
30757 0+00M 0+50M	1	15	15	69	.1	9	4	57	2.01	4	5	ND	4	17	1	2	2	27	.10	.153	9	9	.15	107	.17	3	3.92	.02	.03	1	70
30757 0+00M 0+25M	1	19	16	101	.1	9	4	83	1.99	2	5	ND	3	25	1	3	2	27	.15	.129	12	11	.20	148	.17	3	3.41	.02	.04	1	40
30757 BL 5+00M	1	57	46	102	.2	6	8	152	3.71	2	5	ND	3	323	1	2	3	63	.82	.054	51	9	.88	151	.22	3	3.61	.02	.08	1	50
30757 BL 3+75M	3	77	29	316	.2	48	7	135	3.83	5	5	ND	2	148	1	2	7	86	2.22	.037	19	30	.95	164	.12	10	3.86	.01	.16	1	20
30757 BL 3+50M	2	22	11	97	.1	7	3	94	1.44	2	5	ND	1	28	1	2	2	19	.22	.182	8	7	.13	125	.13	2	2.39	.02	.05	1	40
30757 BL 3+25M	2	40	16	94	.2	8	5	128	2.06	2	5	ND	4	39	1	2	2	31	.20	.153	16	12	.21	134	.15	5	2.63	.02	.05	1	40
30757 BL 3+00M	2	45	14	136	.1	9	5	134	2.31	2	5	ND	5	34	1	2	2	33	.16	.154	16	14	.26	204	.14	2	2.87	.02	.06	1	30
30757 BL 2+75M	1	19	15	66	.2	7	4	67	1.70	2	5	ND	4	39	1	2	2	24	.19	.096	13	8	.22	104	.15	3	2.69	.03	.05	1	20
30757 BL 2+50M	1	13	12	57	.2	9	4	48	1.88	2	5	ND	4	22	1	3	2	26	.14	.128	10	9	.13	117	.18	3	3.75	.02	.04	1	50
30757 BL 2+25M	2	25	18	59	.2	10	4	55	1.96	3	5	ND	4	18	1	2	2	28	.13	.113	9	10	.14	91	.16	2	3.02	.02	.04	1	120
30757 BL 2+00M	1	15	15	70	.2	8	4	92	2.07	2	5	ND	4	24	1	2	2	31	.15	.137	12	13	.16	132	.14	4	2.70	.02	.04	1	40
30757 BL 1+75M	1	13	15	99	.1	9	4	95	2.00	2	5	ND	3	20	1	2	2	30	.12	.121	10	11	.14	124	.13	2	2.18	.02	.04	1	30
30757 BL 1+50M	1	16	13	67	.1	8	4	71	1.80	2	5	ND	4	28	1	2	2	25	.13	.156	12	10	.14	109	.14	3	2.57	.02	.04	1	40
30757 BL 1+25M	2	11	16	58	.1	8	3	22	1.68	4	5	ND	4	47	1	2	2	24	.10	.088	10	9	.15	111	.11	2	2.24	.02	.04	1	20
30757 BL 1+00M	2	83	13	71	.1	8	4	86	1.82	2	5	ND	3	26	1	2	2	26	.15	.142	9	9	.14	126	.15	7	2.80	.02	.04	1	30
30757 BL 0+75M	1	43	13	85	.2	13	5	51	1.98	3	5	ND	5	34	1	2	2	29	.20	.091	14	11	.19	118	.13	3	2.53	.02	.05	2	40
30757 BL 0+50M	1	24	13	95	.1	11	6	60	2.70	2	5	ND	6	40	1	2	2	47	.22	.113	14	19	.34	180	.14	4	2.52	.02	.06	1	30
30757 BL 0+25M	1	15	18	98	.1	9	4	86	1.85	4	5	ND	3	34	1	4	2	27	.19	.130	11	11	.17	146	.14	5	2.70	.02	.05	1	50
30757 BL 0+00M	1	50	14	441	.2	14	4	64	1.89	5	5	ND	3	33	1	2	2	30	.25	.151	13	11	.21	118	.14	5	2.77	.02	.05	1	70
30757 BL 0+25S	1	16	13	43	.1	5	6	59	3.04	2	5	ND	8	59	1	2	2	66	.42	.080	32	18	.36	46	.07	2	.80	.01	.05	2	100
STD C	20	63	40	132	7.3	70	31	1051	4.25	43	17	8	39	53	19	17	22	60	.47	.085	41	60	.94	181	.08	35	1.87	.06	.14	15	1300

SAMPLE#	MO PPH	CU PPH	PB PPH	ZN PPH	AG PPH	NI PPH	CO PPH	MN PPH	FE I	AS PPH	U PPH	AU PPH	TH PPH	SR PPH	CD PPH	SB PPH	BI PPH	V PPH	CA I	P I	LA PPH	CR PPH	HG I	BA PPH	TI I	B PPH	AL I	NA I	K I	M PPH	HG PPB
30757 25179	9	8	8	65	.1	3	4	668	2.41	4	5	ND	4	128	1	2	2	58	1.04	.049	13	92	.42	41	.19	3	.79	.09	.14	1	5
30757 25180	4	10	12	47	.1	4	4	350	2.09	6	5	ND	25	82	1	3	3	35	.61	.060	70	89	.55	100	.20	5	.94	.09	.19	1	5
30757 25181	7	9	7	75	.1	3	5	775	2.71	2	5	ND	1	97	1	2	2	74	1.09	.066	12	79	.42	62	.17	2	.81	.15	.25	1	5
30757 25182	3	17	21	78	.1	6	5	474	2.99	5	5	ND	21	68	1	2	3	66	.64	.100	55	47	.58	109	.32	2	.90	.11	.35	1	5
30757 10+00N 3+50W	13	2	3	41	.1	3	2	451	1.74	2	5	ND	5	42	1	2	2	35	.25	.025	13	154	.28	50	.07	8	.64	.12	.32	1	5
30757 8+00N 2+55W	4	9	23	52	.2	4	3	461	2.36	2	5	ND	20	76	1	3	2	43	.51	.064	51	55	.42	77	.31	2	.82	.12	.36	1	5
30757 7+00N 3+75W	11	6	4	102	.1	3	3	671	1.96	2	5	ND	6	59	1	2	2	33	.89	.036	16	127	.30	53	.13	2	.64	.15	.30	1	5
30757 7+00N 3+50W	6	4	5	63	.1	3	3	486	1.42	3	5	ND	4	50	1	2	2	35	.63	.035	10	119	.22	33	.09	3	.53	.13	.18	1	5
30757 7+00N 3+25W	5	19	29	69	.2	5	4	446	2.83	2	5	ND	22	635	1	2	2	62	.70	.100	57	56	.61	147	.37	2	1.11	.13	.46	1	10
30757 7+00N 3+00W	5	9	21	94	.1	7	5	675	2.62	5	5	ND	17	156	1	2	3	61	.68	.086	45	63	.55	168	.27	13	1.01	.12	.36	1	20
30757 6+00N 3+50W	15	6	7	102	.1	3	4	996	2.10	2	5	ND	3	56	1	2	2	48	.82	.056	11	114	.36	83	.12	2	.81	.11	.32	1	5
30757 4+00N 1+50W	4	6	18	62	.1	6	5	522	2.52	3	6	ND	15	400	1	2	3	48	.80	.104	44	69	.69	150	.25	4	1.50	.08	.21	1	10
30757 3+00N 3+03W	6	17	26	53	.1	4	4	316	2.50	7	5	ND	26	62	1	3	2	58	.47	.089	64	58	.49	117	.32	6	.87	.15	.48	1	5
30757 3+00N 1+25W	3	9	20	73	.1	9	7	575	2.94	6	5	ND	11	141	1	2	2	62	.83	.119	43	51	.80	186	.28	4	1.53	.08	.22	1	5
30757 3+00N 1+00W	4	6	18	86	.1	8	8	625	3.10	6	5	ND	8	154	1	4	2	68	.82	.129	37	52	.93	225	.26	3	1.46	.10	.21	1	5
30757 BL 4+75N	2	12	19	105	.1	2	6	637	3.57	13	5	ND	3	142	1	2	2	74	.98	.116	50	29	.96	151	.37	2	1.69	.15	.15	1	20
30757 BL 4+50N	3	11	23	75	.2	1	6	580	3.36	10	5	ND	3	268	1	4	2	75	1.23	.116	52	26	.96	251	.36	3	1.97	.18	.25	1	5
30757 BL 4+25N	3	13	23	79	.1	3	6	716	3.39	9	5	ND	4	302	1	2	2	70	1.11	.116	54	57	.79	202	.32	4	2.02	.11	.24	1	10
30757 BL 4+00N	7	4	17	117	.3	3	6	727	3.44	8	5	ND	4	140	1	4	2	72	.99	.130	51	77	.86	217	.36	8	1.58	.14	.28	1	5
STD C	20	63	40	132	7.6	70	31	1083	4.20	42	16	9	39	55	20	17	23	61	.46	.088	42	60	.92	180	.08	35	1.93	.06	.14	12	1300



	<p>● &gt; 12</p> <p>● 10 &lt; -&lt; 12</p> <p>● 8 &lt; -&lt; 10</p> <p>● 6 &lt; -&lt; 8</p> <p>● 4 &lt; -&lt; 6</p> <p>● 2 &lt; -&lt; 4</p> <p>● 0 &lt; -&lt; 2</p>	<p><b>ARSENIC</b> (ppm)</p> <p>COPKET GROUP</p> <p>COPPER KETTLE CREEK</p> <p>B-HORIZON SOIL GEOCHEMISTRY</p>		
		<p>Project No. NTS 82E/10W</p>	<p>Scale 1:10000</p>	
<p>ORION RESOURCES LTD.</p>		<p>Date DECEMBER 1987</p>	<p>Report No.</p>	<p>Fig. No.</p>



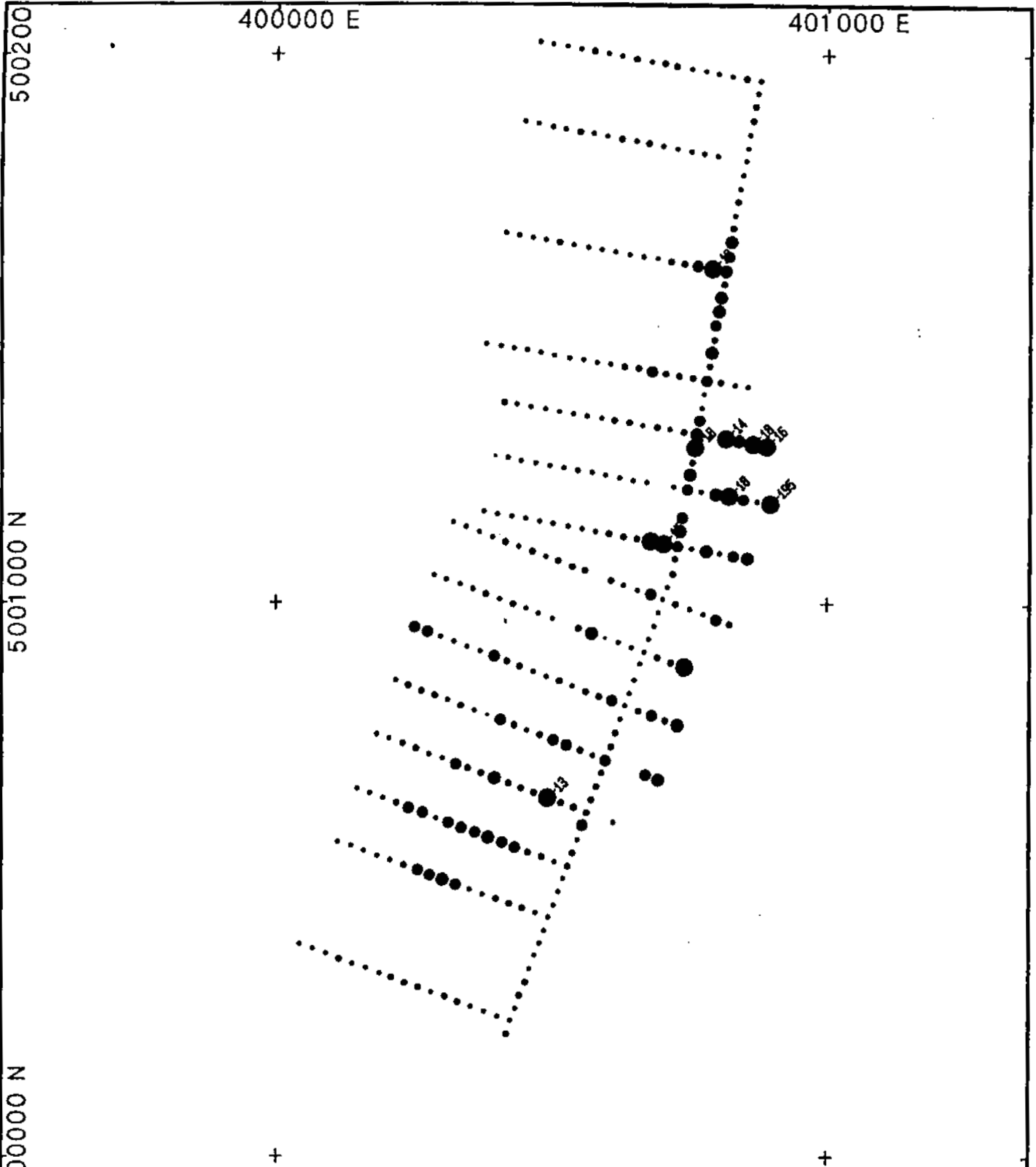
Meters  
100 50 0 100 200

● > 210  
 ● 180 < <= 210  
 ● 160 < <= 180  
 ● 140 < <= 160  
 ● 115 < <= 140  
 ● 90 < <= 115  
 ● 0 < <= 90

<b>BARIUM (ppm)</b>		
COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY		
Project No.	NTS 82E/10W	Scale 1:10000

ORION RESOURCES LTD.

Date DECEMBER 1987	Report No.	Fig. No.
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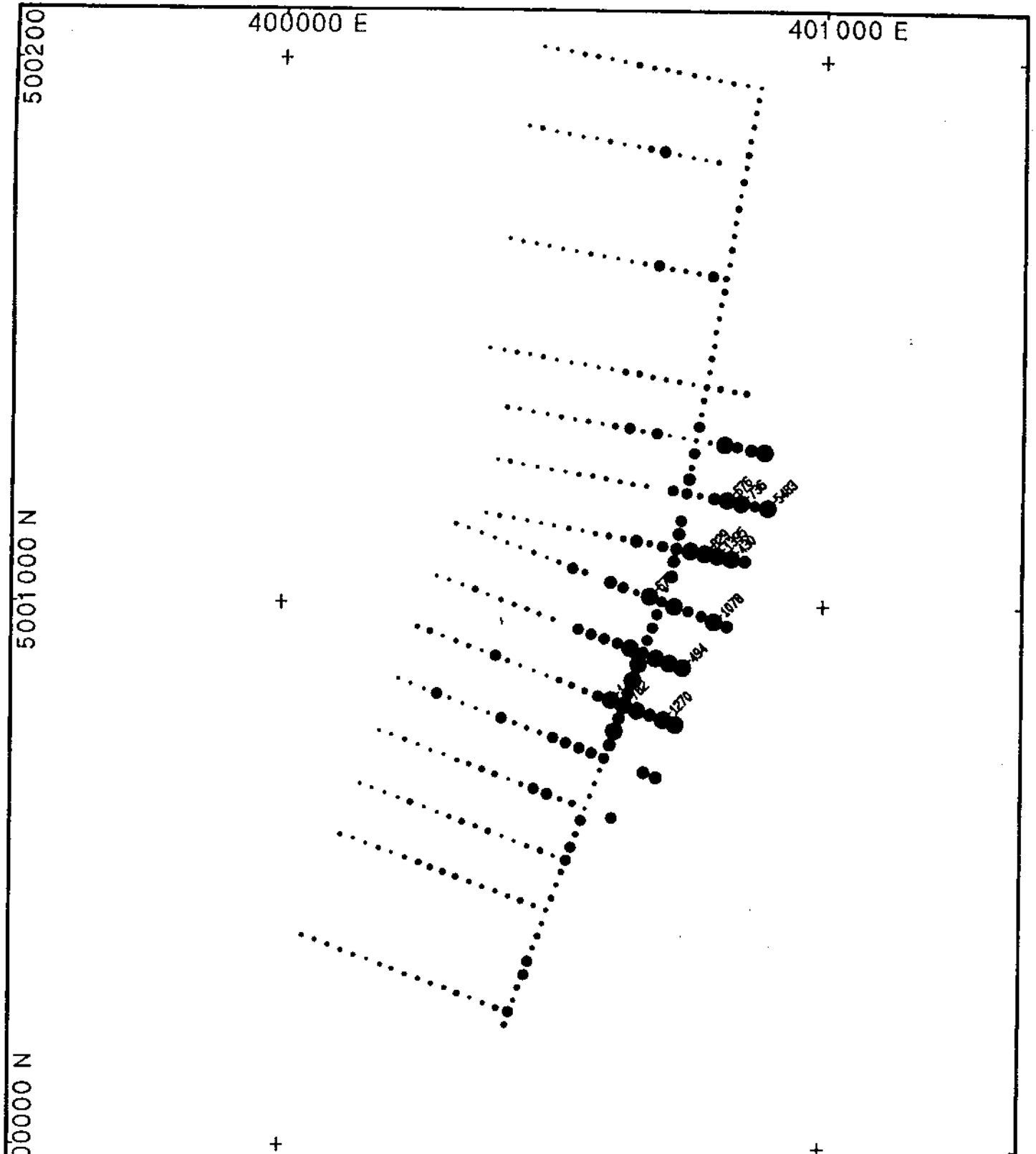
Meters  
100 50 0 100 200

10 <	●	> 12
8 <	●	≤ 12
6 <	●	≤ 10
4 <	●	≤ 8
2 <	●	≤ 6
0 <	●	≤ 4
	●	≤ 2

ORION RESOURCES LTD.

<b>COBALT</b> (ppm)		
COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY		
Project No.	NTS 82E/1 OW	Scale 1:10000
Date DECEMBER 1987	Report No.	Fig. No.





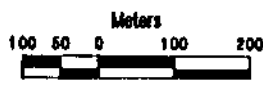
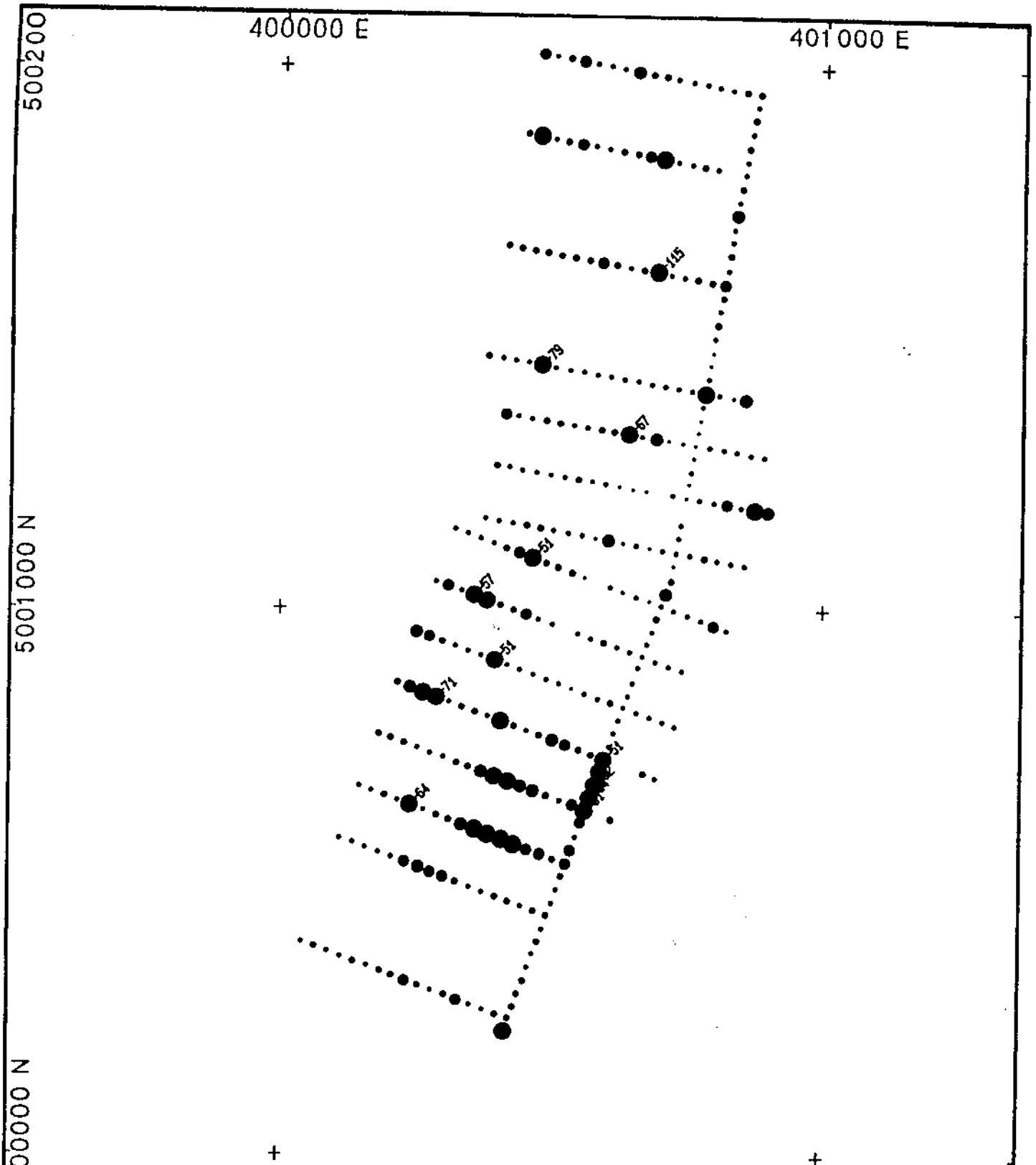
Meters

Legend for Copper Concentration (ppm):

- > 400
- 200 < <= 400
- 100 < <= 200
- 30 < <= 100
- 15 < <= 30
- 10 < <= 15
- 0 < <= 10

<b>COPPER</b> (ppm)		
COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY		
Project No.	NTS 82E/10W	Scale 1:10000
Date DECEMBER 1987	Report No.	Fig. No.

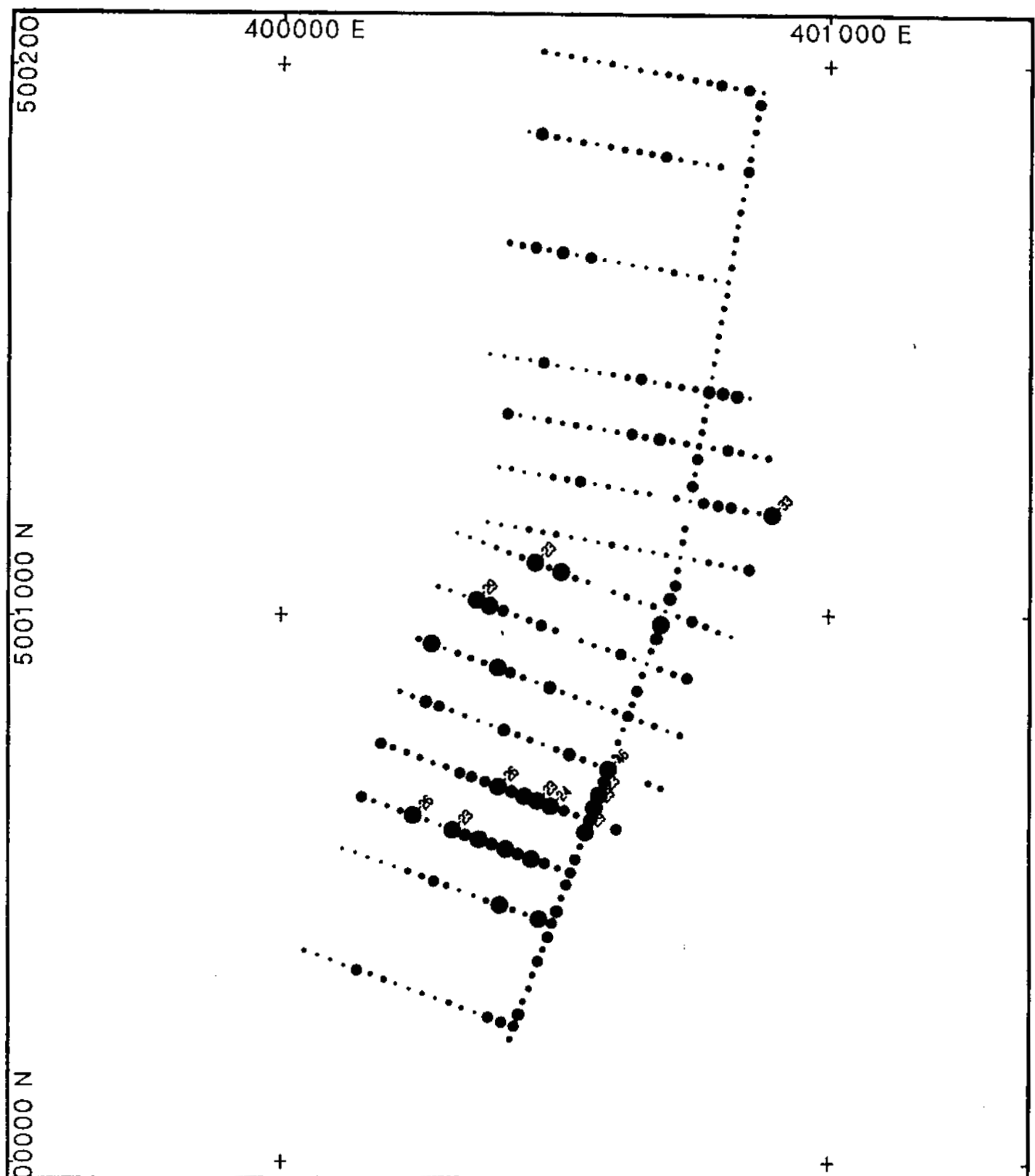
ORION RESOURCES LTD.



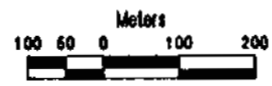
- > 50
- ≤ 50
- ≤ 30
- ≤ 20
- ≤ 15
- ≤ 10
- ≤ 5

<h2>LANTHANUM (ppm)</h2> <p>COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY</p>		
Project No.	NTS 82E/10W	Scale 1:10000
Date DECEMBER 1987	Report No.	Fig. No.

ORTON RESOURCES LTD.

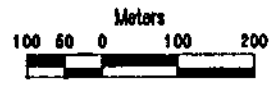
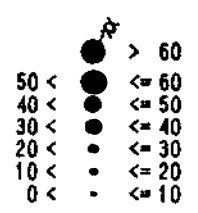
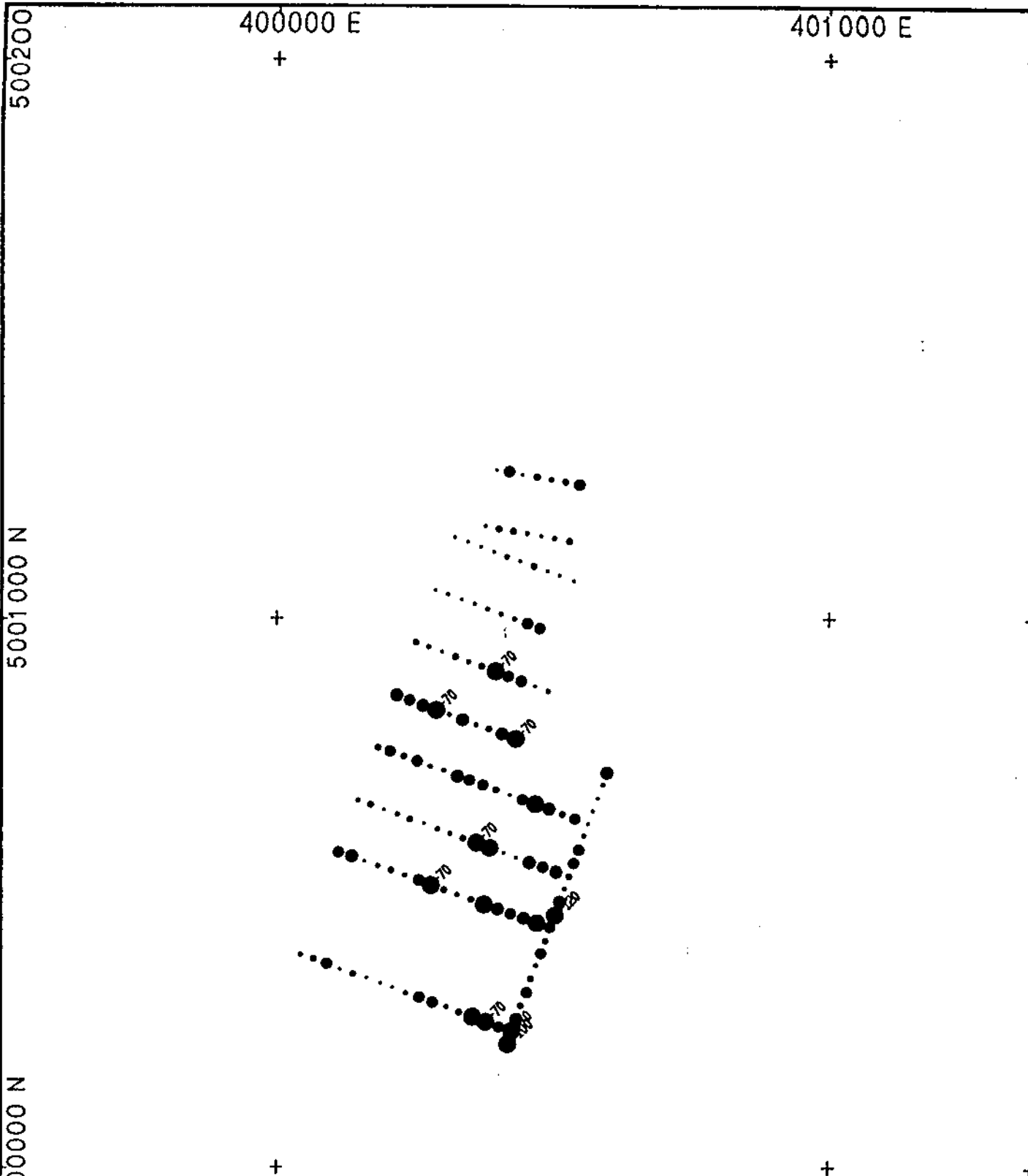


- > 22
- ≤ 22
- ≤ 19
- ≤ 16
- ≤ 13
- ≤ 10
- ≤ 7



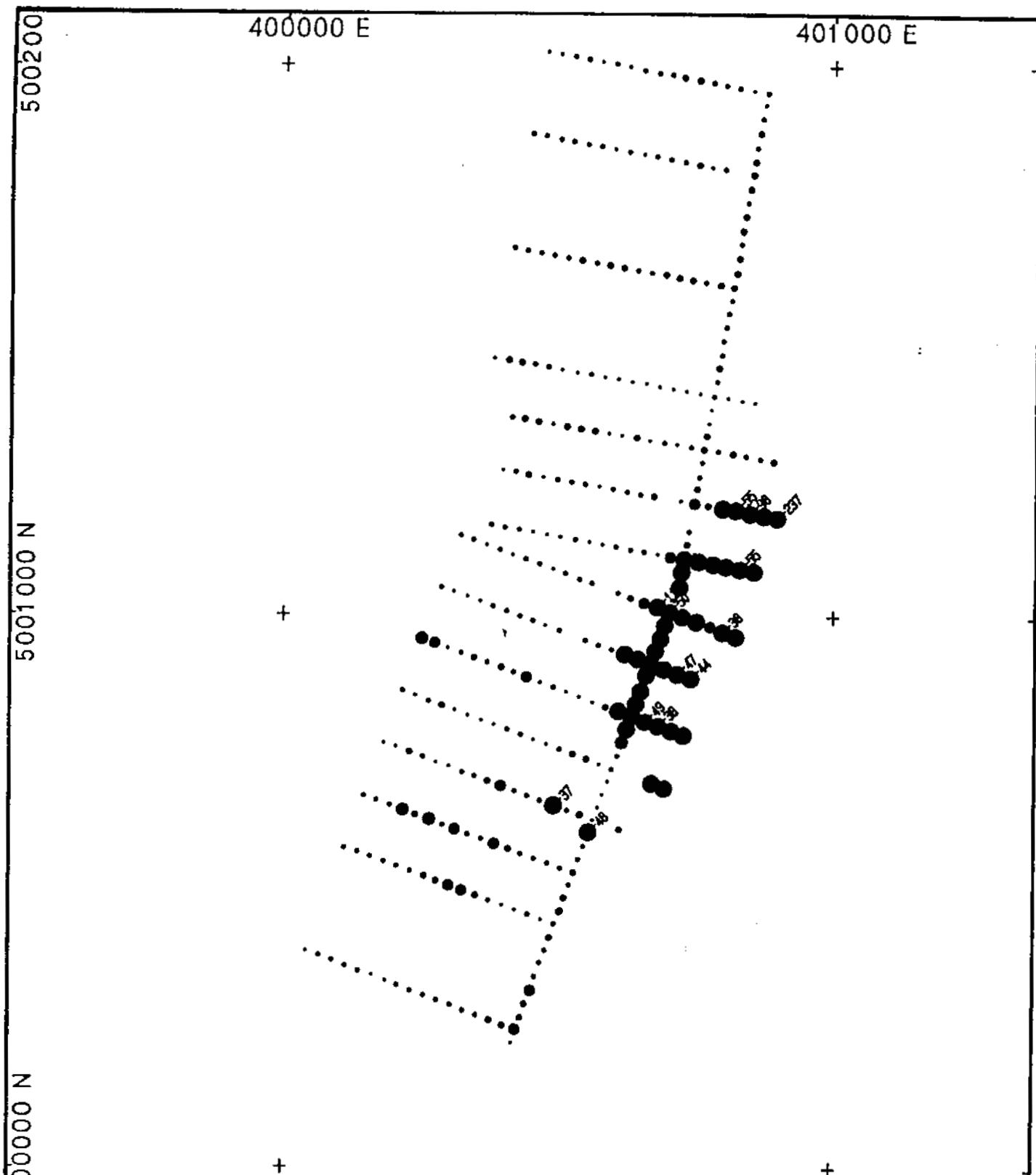
<b>LEAD</b> (ppm)		
COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY		
Project No.	NTS 82E/10W	Scale 1:10000
Date DECEMBER 1987	Report No.	Fig. No.

ORTON RESOURCES LTD.



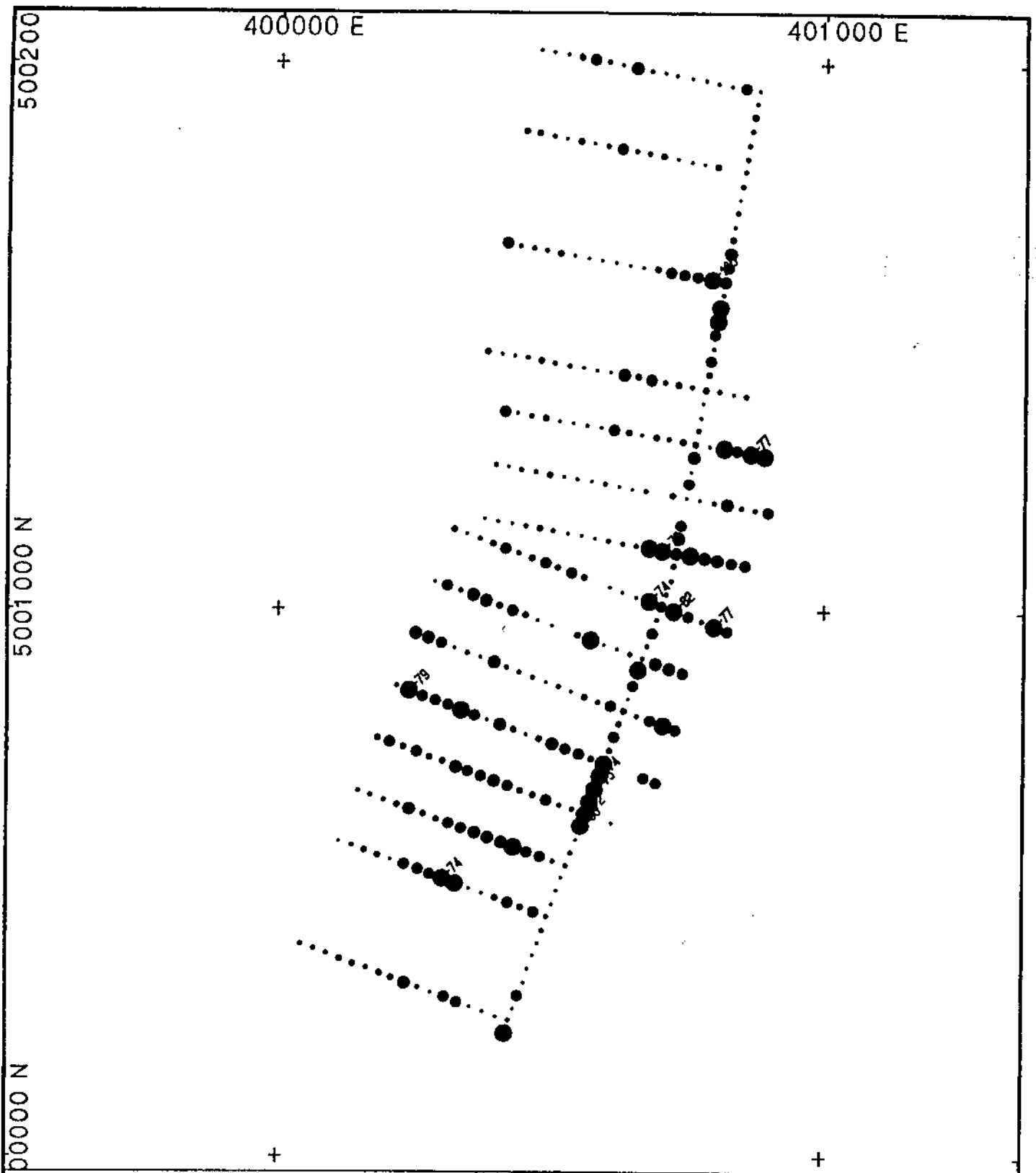
<b>MERCURY</b> (ppb)		
COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY		
Project No.	NTS 82E/10W	Scale 1:10000
Date DECEMBER 1987	Report No.	Fig. No.

ORION RESOURCES LTD.



<p>Meters</p> <p>100 50 0 100 200</p> <p>● &gt; 35</p> <p>● 20 &lt; ≤ 35</p> <p>● 15 &lt; ≤ 20</p> <p>● 11 &lt; ≤ 15</p> <p>● 8 &lt; ≤ 11</p> <p>● 5 &lt; ≤ 8</p> <p>● 0 &lt; ≤ 5</p>	<p><b>NICKEL</b> (ppm)</p> <p>COPKET GROUP</p> <p>COPPER KETTLE CREEK</p> <p>B-HORIZON SOIL GEOCHEMISTRY</p>		
	<p>Project No.</p> <p>NTS</p>	<p>82E/OW</p> <p>Report No.</p>	<p>Scale</p> <p>1:10000</p> <p>Fig. No.</p>
<p>ORTON RESOURCES LTD.</p>		<p>Date</p> <p>DECEMBER 1987</p>	



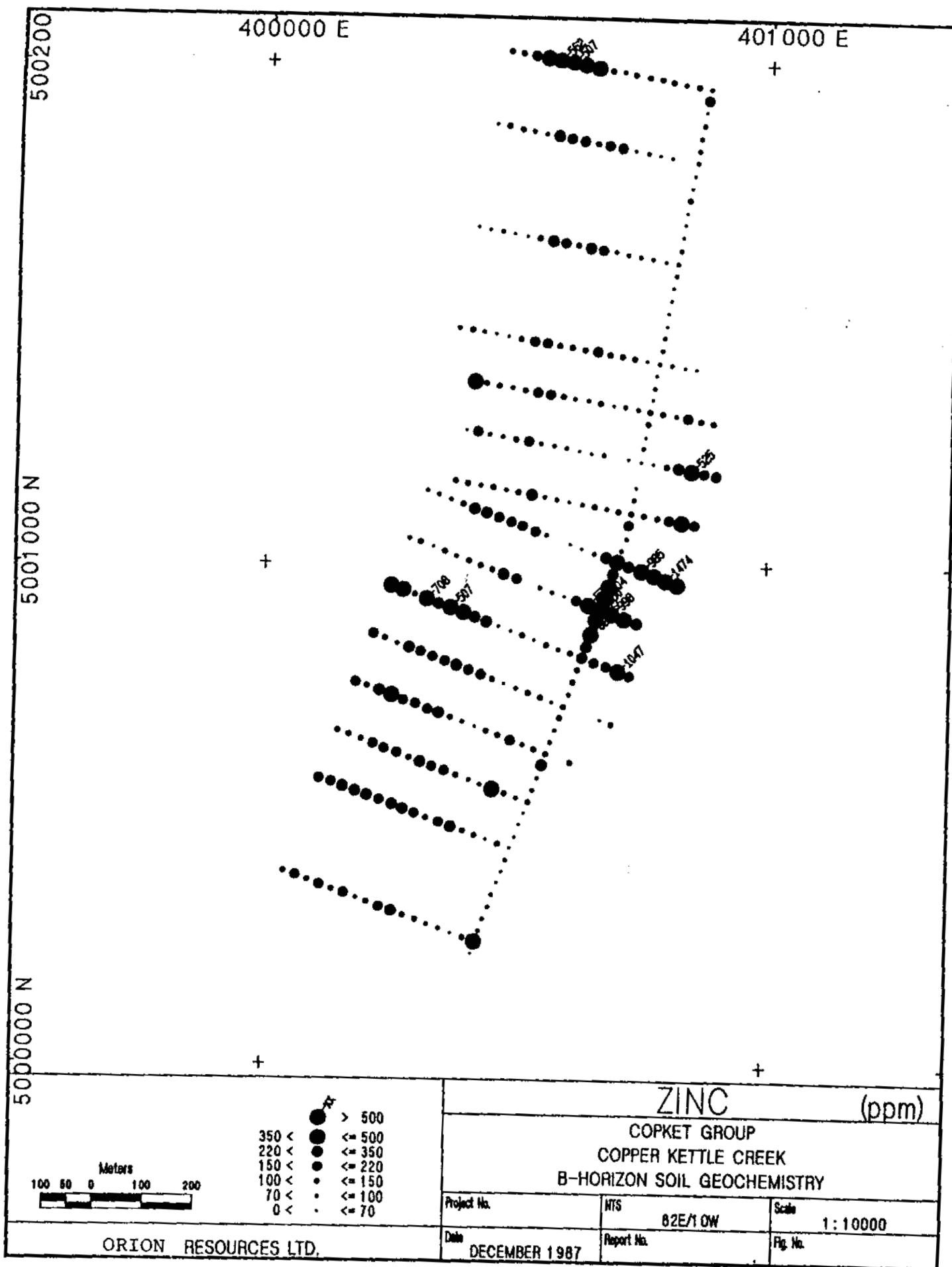


Meters  
100 50 0 100 200

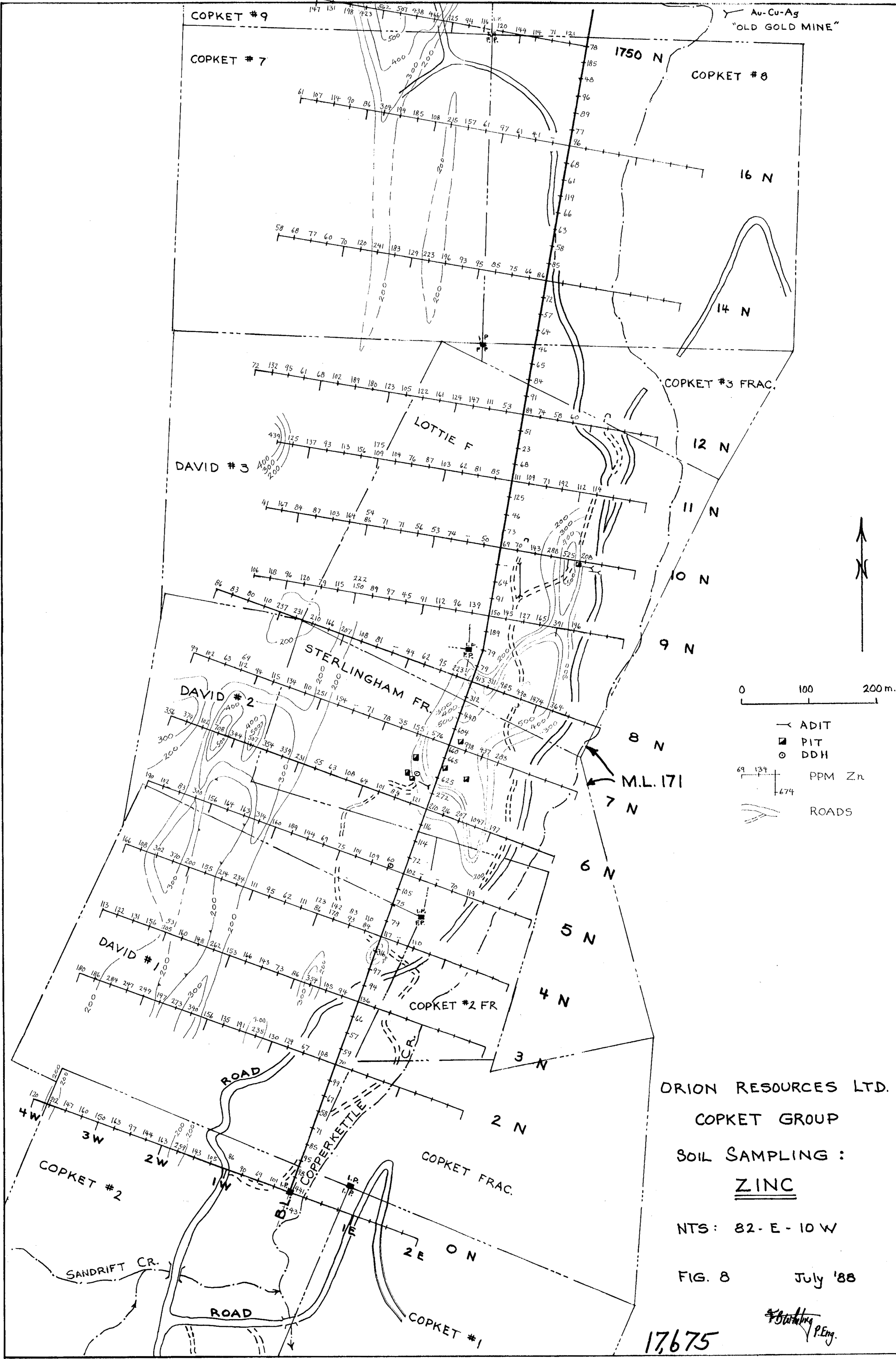
●	> 71
●	62 < ≤ 71
●	53 < ≤ 62
●	44 < ≤ 53
●	36 < ≤ 44
●	29 < ≤ 36
●	0 < ≤ 29

<b>VANADIUM</b> (ppm)		
COPKET GROUP COPPER KETTLE CREEK B-HORIZON SOIL GEOCHEMISTRY		
Project No.	NTS 82E/1 OW	Scale 1:10000
Date DECEMBER 1987	Report No.	Fig. No.

ORION RESOURCES LTD.







0 100 200 m.

< ADIT  
 ■ PIT  
 ○ DDH  
 69 134 PPM Zn  
 674  
 ROADS

ORION RESOURCES LTD.  
 COPKET GROUP  
 SOIL SAMPLING :  
ZINC  
 NTS: 82-E-10W  
 FIG. 8 July '88

17,675

*[Signature]* P.Eng.

COPKET #9

COPKET #7

COPKET #8

Au-Cu-Ag  
"OLD GOLD MINE"

1750 N

16 N

14 N

COPKET #3 FRAC.

12 N

DAVID #3

11 N

10 N

9 N

0 100 200 m.

← ADIT

▣ PIT

○ DDH

12 82 PPM CU

+324

ROADS

M.L. 171

7 N

6 N

5 N

4 N

3 N

2 N

COPKET #2 FR.

2E ON

COPKET #1

DAVID #1

COPKET #2 FR.

COPKET FRAC.

ROAD

ROAD

COPKET #2

2W

3W

4W

SANDRIFT CR.

BL  
COPPERKETTLE

ORION RESOURCES LTD.

COPKET GP.

SOIL SAMPLING :

COPPER

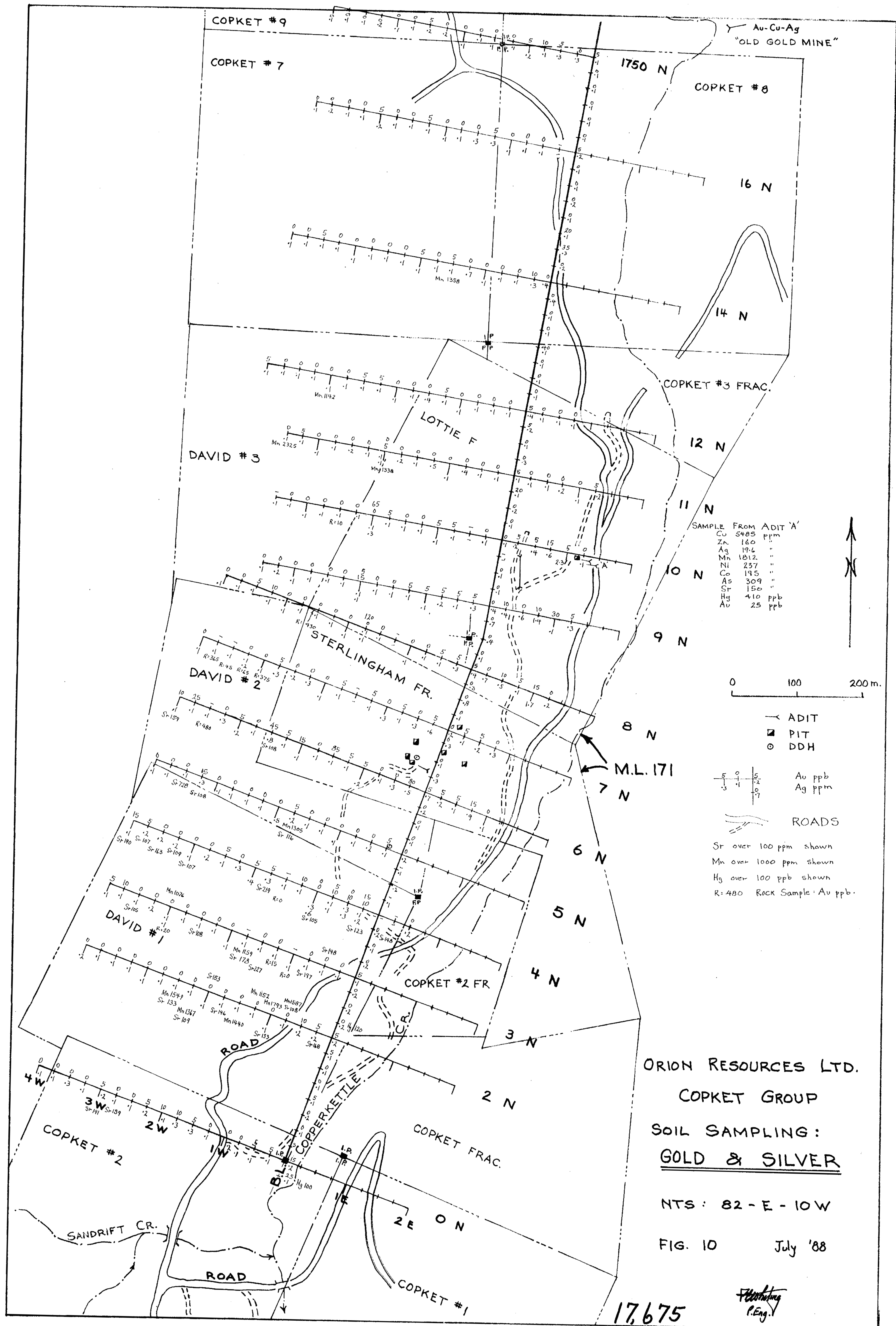
NTS: 82-E-10W

FIG. 9 July '88

*G. Bunting*  
P. Eng.

17,675

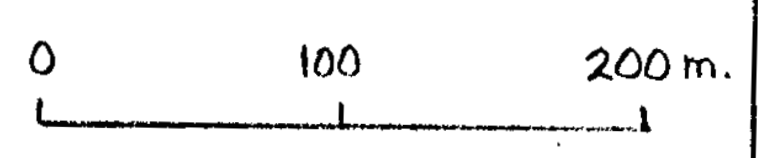




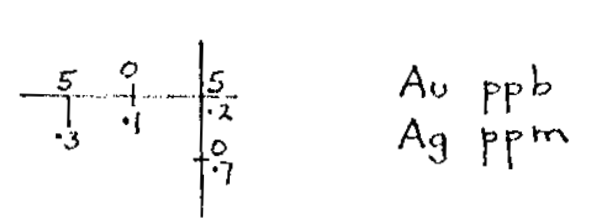
Au-Cu-Ag  
"OLD GOLD MINE"

SAMPLE FROM ADIT 'A'

Cu	5485	ppm
Zn	160	"
Ag	19.6	"
Mn	1812	"
Ni	237	"
Co	195	"
As	309	"
Sr	150	"
Hg	410	ppb
Au	25	ppb



- ← ADIT
- PIT
- DDH



ROADS

Sr over 100 ppm shown  
Mn over 1000 ppm shown  
Hg over 100 ppb shown  
R=480 Rock Sample: Au ppb.

ORION RESOURCES LTD.  
COPKET GROUP  
SOIL SAMPLING:  
GOLD & SILVER

NTS: 82-E-10W

FIG. 10 July '88

17,675

*Fluoroblog*  
P.Eng.